

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

**TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200
Pittsburgh, PA - 15220-2745
Phone No: 412-921-7090**

**ORDER ID : Q3371
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3371

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3371-01
Q3371-02
Q3371-03
Q3371-04
Q3371-05
Q3371-06

Client Sample Number

BP-VPB-184-TB-20251010
BP-VPB-184-EB-20251016
VPB184-HYD-20251010
BP-VPB-184-GW-915-917
BP-VPB-184-GW-920-922
VPB184-HYD-20251016

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: 10/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3371

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 10/16/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for,
PB170167BS [2-Fluorobiphenyl - 111%],
BP-VPB-184-EB-20251016 [Terphenyl-d14 - 137%],
BP-VPB-184-GW-920-922 [Terphenyl-d14 - 137%], Failed surrogate is not associated with DOD, Therefore no further corrective action was taken.

and

VPB184-HYD-20251010 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 10%, Terphenyl-d14 - 137%],
VPB184-HYD-20251016 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 11%].
Surrogate were affected due to matrix interference, as evidenced by the chromatogram. As no additional volume of each sample was available for re-extraction, they could not be re-extracted and as the re-analysis would have given the same results, they were not reanalyzed.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.



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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

Samples PB184-HYD-20251010 has the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

F. Manual Integration Comments:

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

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

Signature_____

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: Q3371

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries were met for all analysis except for, PB170167BS [2-Fluorobiphenyl - 111%], BP-VPB-184-EB-20251016 [Terphenyl-d14 - 137%], BP-VPB-184-GW-920-922 [Terphenyl-d14 - 137%], Failed surrogate is not associated with DOD, Therefore no further corrective action was taken.			
	and			
	VPB184-HYD-20251010 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 10%, Terphenyl-d14 - 137%], VPB184-HYD-20251016 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 11%]. Surrogate were affected due to matrix interference, as evidenced by the chromatogram. As no additional volume of each sample was available for re-extraction, they could not be re-extracted and as the re-analysis would have given the same results, they were not reanalyzed.			
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. The Blank Spike Duplicate met requirements for all compounds.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

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

(CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

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

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

Samples PB184-HYD-20251010 has the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3371

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: 10/24/2025

LAB CHRONICLE

OrderID:	Q3371	OrderDate:	10/16/2025 4:13:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3371-02	BP-VPB-184-EB-2025 1016	Water			10/16/25			10/16/25
			SVOC-SIMGroup1	8270-Modified		10/20/25	10/20/25	
Q3371-03	VPB184-HYD-202510 10	Water			10/10/25			10/16/25
			SVOC-SIMGroup1	8270-Modified		10/20/25	10/20/25	
Q3371-05	BP-VPB-184-GW-920- 922	Water			10/15/25			10/16/25
			SVOC-SIMGroup1	8270-Modified		10/20/25	10/20/25	
Q3371-06	VPB184-HYD-202510 16	Water			10/16/25			10/16/25
			SVOC-SIMGroup1	8270-Modified		10/20/25	10/20/25	

Hit Summary Sheet SW-846

SDG No.: Q3371

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-184-EB-20251016								
Q3371-02	BP-VPB-184-EB-202510 WATER	1,4-Dioxane	0.090	J	0.07	0.22	0.22	ug/L
		Total Svoc :			0.09			
		Total Concentration:			0.09			
Client ID : VPB184-HYD-20251016								
Q3371-06	VPB184-HYD-20251016 WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2	ug/L
		Total Svoc :			0.07			
		Total Concentration:			0.07			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3371

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170167BL	PB170167BL	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
PB170167BS	PB170167BS	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.44	111	*	53	106
		Terphenyl-d14	0.4	0.51	127		58	132
PB170167BSD	PB170167BSD	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.31	78		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q3371-02	BP-VPB-184-EB-20251016	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
Q3371-03	VPB184-HYD-20251010	2-Methylnaphthalene-d10	0.4	0.016	4	*	30	150
		Fluoranthene-d10	0.4	0.042	10	*	30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
Q3371-05	BP-VPB-184-GW-920-922	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
Q3371-06	VPB184-HYD-20251016	2-Methylnaphthalene-d10	0.4	0.014	4	*	30	150
		Fluoranthene-d10	0.4	0.043	11	*	30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.52	131		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3371</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	DataFile:	<u>BN038103.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB170167BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3371

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038104.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB170167BSD	1,4-Dioxane	0.4	0.35	ug/L	88	8			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170167BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3371

Lab File ID: BN038102.D

Lab Sample ID: PB170167BL

Instrument ID: BNA_N

Date Extracted: 10/20/2025

Matrix: (soil/water) Water

Date Analyzed: 10/20/2025

Level: (low/med) LOW

Time Analyzed: 17:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170167BS	PB170167BS	BN038103.D	10/20/2025
PB170167BSD	PB170167BSD	BN038104.D	10/20/2025
BP-VPB-184-EB-20251016	Q3371-02	BN038105.D	10/20/2025
VPB184-HYD-20251010	Q3371-03	BN038106.D	10/20/2025
BP-VPB-184-GW-920-922	Q3371-05	BN038107.D	10/20/2025
VPB184-HYD-20251016	Q3371-06	BN038108.D	10/20/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3371
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

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	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51



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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: BN038100.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3371
DFTPP Injection Date: 10/20/2025
DFTPP Injection Time: 16:41

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	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	82.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038101.D	10/20/2025	17:20
PB170167BL	PB170167BL	BN038102.D	10/20/2025	17:56
PB170167BS	PB170167BS	BN038103.D	10/20/2025	18:33
PB170167BSD	PB170167BSD	BN038104.D	10/20/2025	19:09
BP-VPB-184-EB-20251016	Q3371-02	BN038105.D	10/20/2025	19:45
VPB184-HYD-20251010	Q3371-03	BN038106.D	10/20/2025	20:21
BP-VPB-184-GW-920-922	Q3371-05	BN038107.D	10/20/2025	20:58
VPB184-HYD-20251016	Q3371-06	BN038108.D	10/20/2025	21:34
SSTDCCC0.4EC	SSTDCCC0.4	BN038109.D	10/20/2025	22:10

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3371

Client ID : SSTDCCC0.4

Date Analyzed: 10/20/2025

Lab File ID: BN038101.D

Time Analyzed: 17:20

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	8494	7.789	23762	10.58	12771	14.44
UPPER LIMIT	16988	8.289	47524	11.084	25542	14.941
LOWER LIMIT	4247	7.289	11881	10.084	6385.5	13.941
EPA SAMPLE NO.						
01 PB170167BL	8486	7.79	21914	10.59	10397	14.45
02 PB170167BS	7519	7.79	19915	10.58	9572	14.44
03 PB170167BSD	15910	7.79	42753	10.58	20532	14.44
04 BP-VPB-184-EB-20251016	6197	7.79	16002	10.58	8401	14.44
05 VPB184-HYD-20251010	7049	7.79	18584	10.58	9633	14.44
06 BP-VPB-184-GW-920-922	7237	7.79	19084	10.58	10109	14.44
07 VPB184-HYD-20251016	7491	7.79	19850	10.58	10193	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.: Q3371

Client ID: SSTDCCC0.4

Date Analyzed: 10/20/2025

Lab File ID: BN038101.D

Time Analyzed: 17:20

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	22871	17.198	16306	21.384	14546	23.701
UPPER LIMIT	45742	17.698	32612	21.884	29092	24.201
LOWER LIMIT	11435.5	16.698	8153	20.884	7273	23.201
EPA SAMPLE NO.						
01 PB170167BL	17174	17.20	12295	21.38	12453	23.70
02 PB170167BS	16635	17.20	10986	21.38	10158	23.70
03 PB170167BSD	36706	17.20	24714	21.38	22637	23.70
04 BP-VPB-184-EB-20251016	17071	17.20	15030	21.38	14485	23.70
05 VPB184-HYD-20251010	18045	17.20	14009	21.38	12701	23.70
06 BP-VPB-184-GW-920-922	20161	17.20	17522	21.38	17404	23.69
07 VPB184-HYD-20251016	19689	17.20	16604	21.38	14840	23.69

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/16/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/16/25
Client Sample ID:	BP-VPB-184-EB-20251016		SDG No.:	Q3371
Lab Sample ID:	Q3371-02		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	900 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/20/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.090	J	1	0.070	0.22	0.22	ug/L	10/20/25 19:45	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.30			30 - 150		76%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.42			30 - 150		105%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			55 - 111		91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.35			53 - 106		87%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.55	*		58 - 132		137%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	6200								
1146-65-2	Naphthalene-d8	16000								
15067-26-2	Acenaphthene-d10	8400								
1517-22-2	Phenanthrene-d10	17100								
1719-03-5	Chrysene-d12	15000								
1520-96-3	Perylene-d12	14500								

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\BN102025\
Data File : BN038105.D
Acq On : 20 Oct 2025 19:45
Operator : RC/JU
Sample : Q3371-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

Quant Time: Oct 21 02:24:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

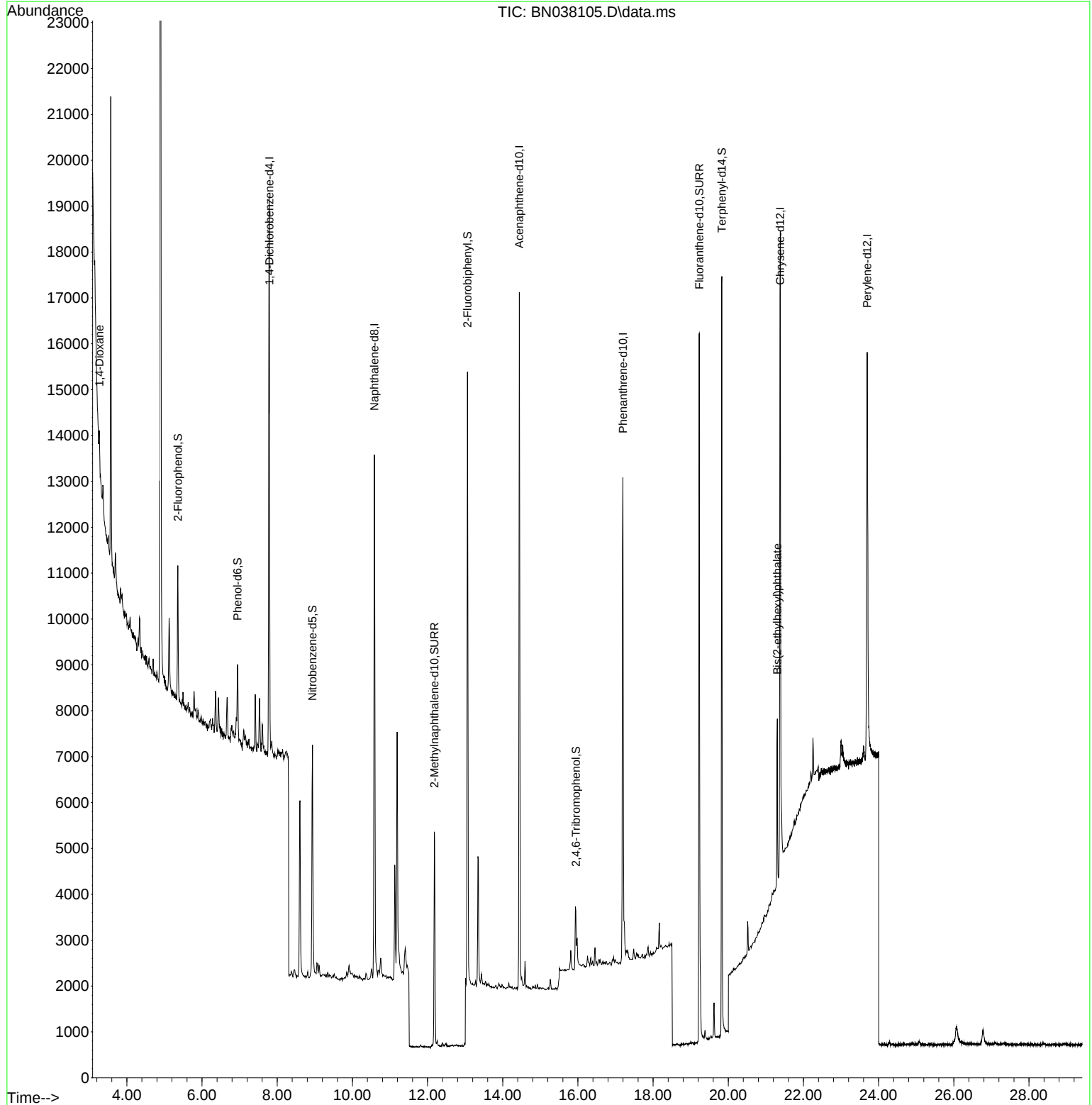
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	6197	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	16002	0.400	ng	# 0.00
13) Acenaphthene-d10	14.441	164	8401	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	17071	0.400	ng	0.00
29) Chrysene-d12	21.384	240	15030	0.400	ng	0.00
35) Perylene-d12	23.695	264	14485	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	2274	0.161	ng	0.00
5) Phenol-d6	6.944	99	1516	0.082	ng	0.00
8) Nitrobenzene-d5	8.939	82	4434	0.363	ng	0.00
11) 2-Methylnaphthalene-d10	12.182	152	6748	0.304	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	973	0.305	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	11962	0.348	ng	0.00
27) Fluoranthene-d10	19.229	212	18080	0.421	ng	0.00
31) Terphenyl-d14	19.829	244	16424	0.549	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	482	0.077	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.304	149	3816	0.184	ng	# 96

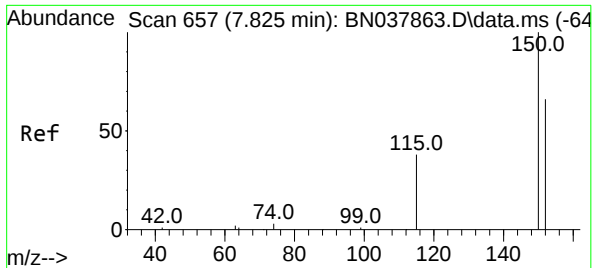
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038105.D
Acq On : 20 Oct 2025 19:45
Operator : RC/JU
Sample : Q3371-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

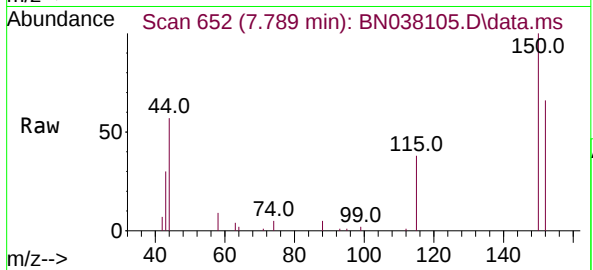
Quant Time: Oct 21 02:24:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



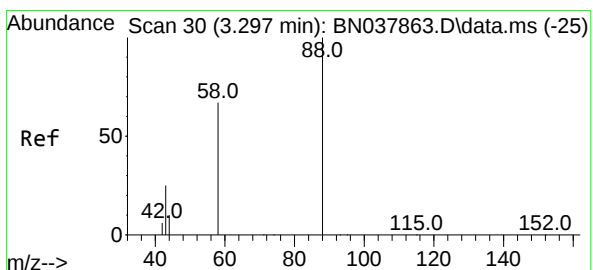
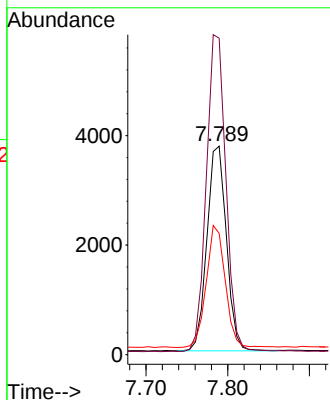
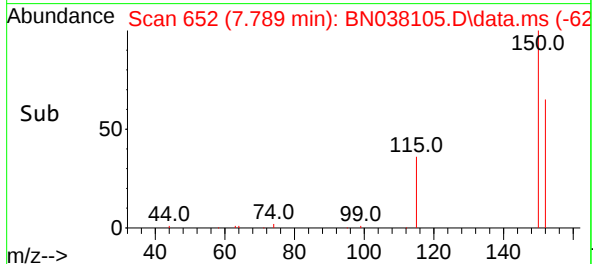


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

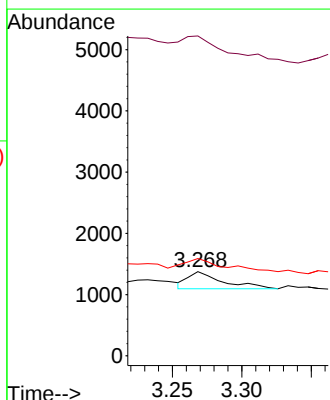
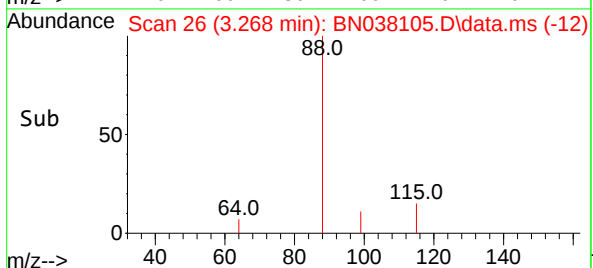
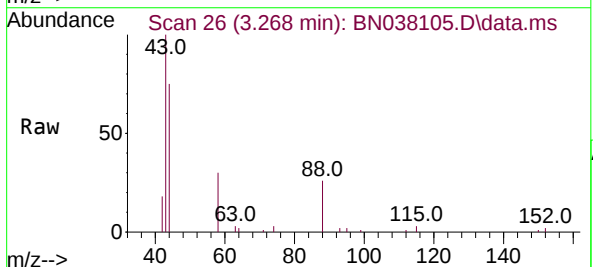


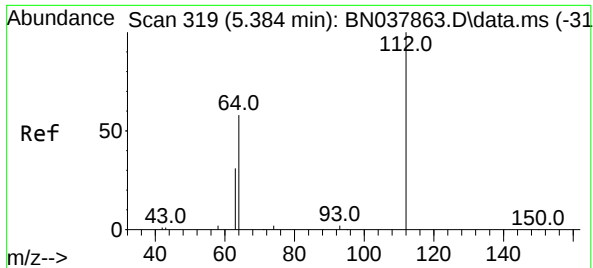
Tgt Ion:152 Resp: 6197
Ion Ratio Lower Upper
152 100
150 151.8 121.0 181.4
115 58.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.077 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion: 88 Resp: 482
Ion Ratio Lower Upper
88 100
43 227.4 26.6 39.8#
58 104.8 58.9 88.3#

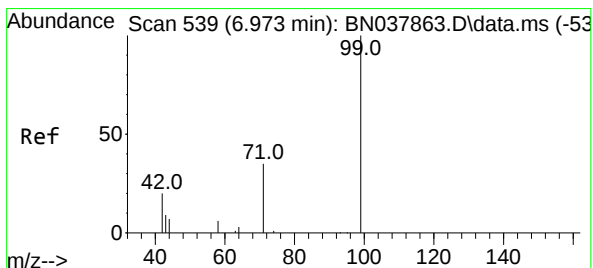
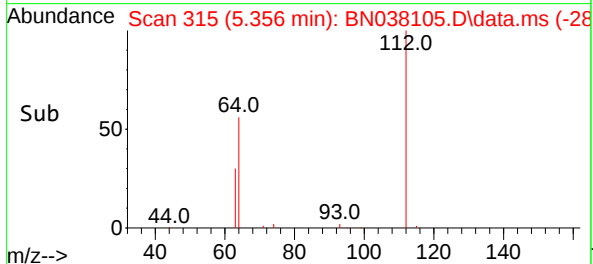
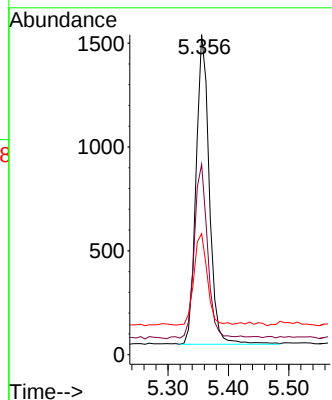
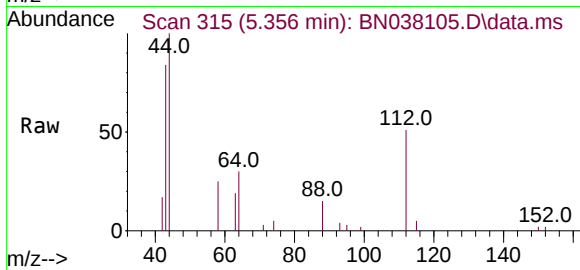




#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.356 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

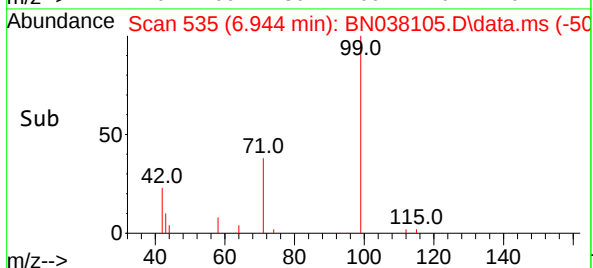
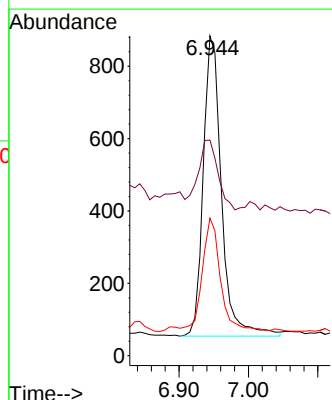
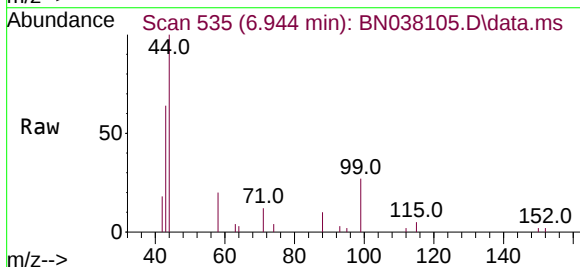
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

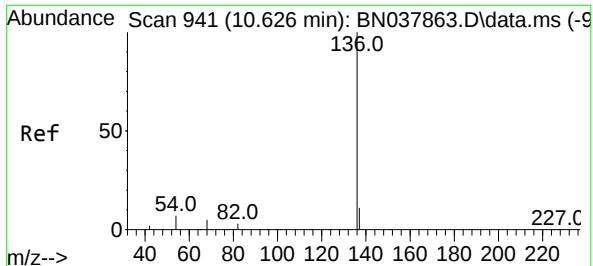
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	44.6	66.8
63	29.8	24.9	37.3



#5
Phenol-d6
Concen: 0.082 ng
RT: 6.944 min Scan# 535
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.3	17.2	25.8
71	36.3	27.3	40.9

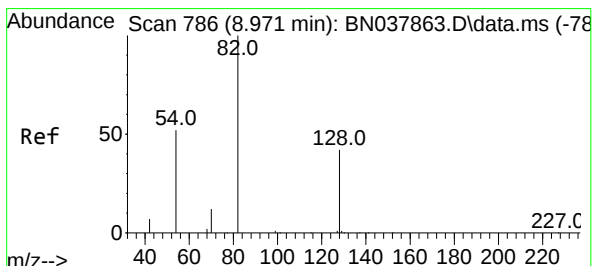
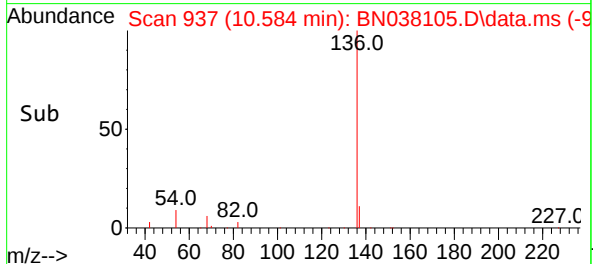
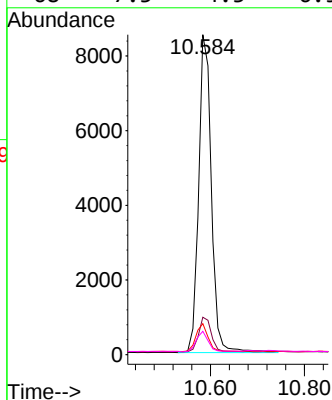
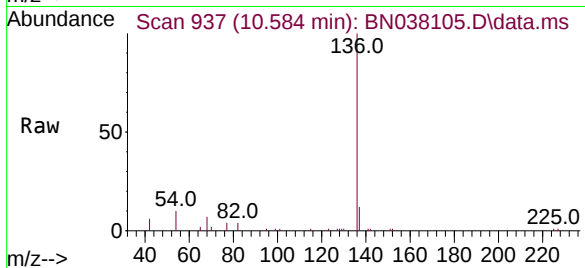




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

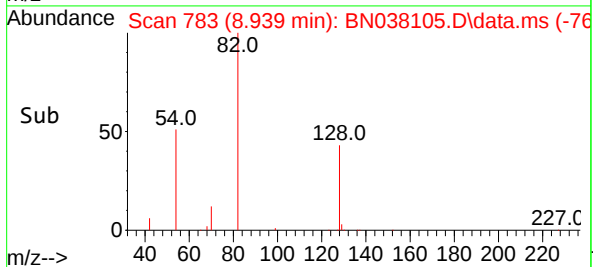
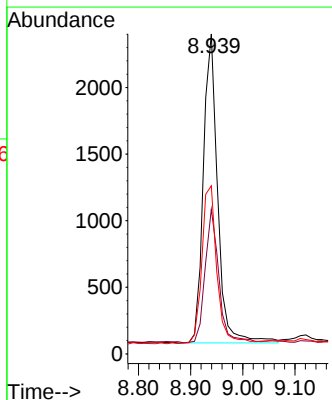
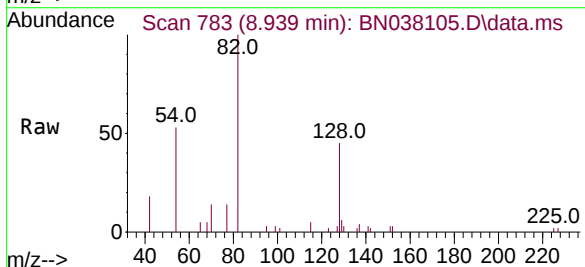
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

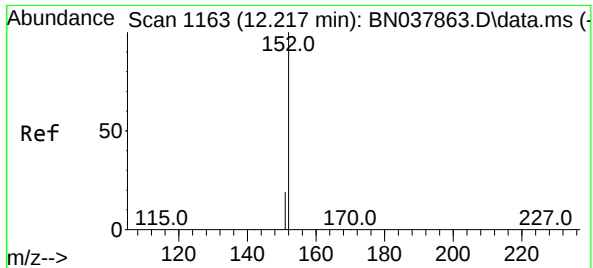
Tgt Ion:	136	Resp:	16002
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.0	13.4
54	9.7	5.8	8.8#
68	7.3	4.3	6.5#



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.939 min Scan# 783
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion:	82	Resp:	4434
Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.8	52.2
54	52.5	42.2	63.2

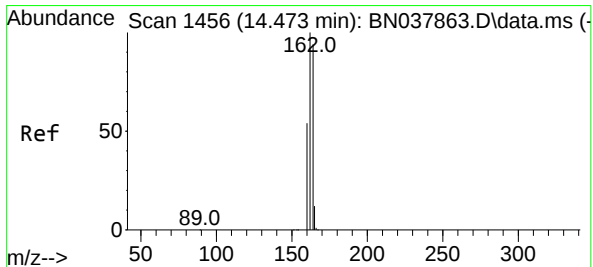
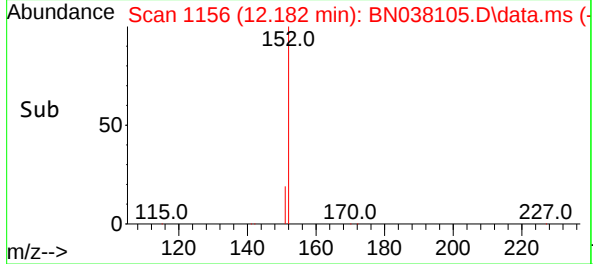
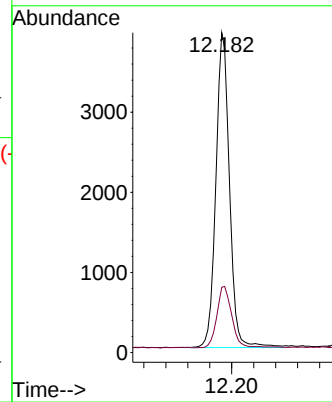
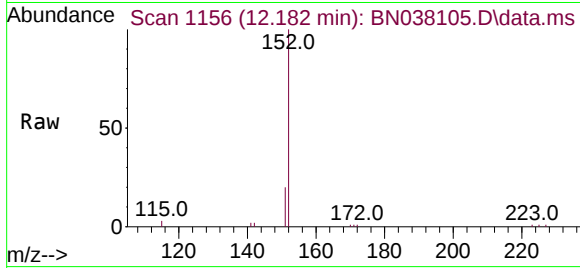




#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 12.182 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

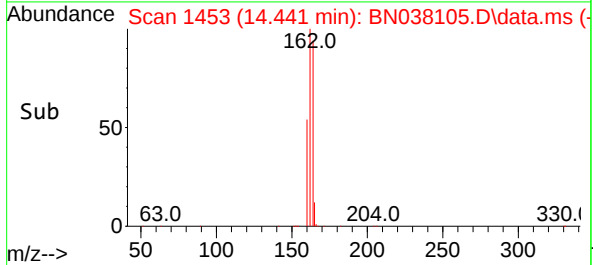
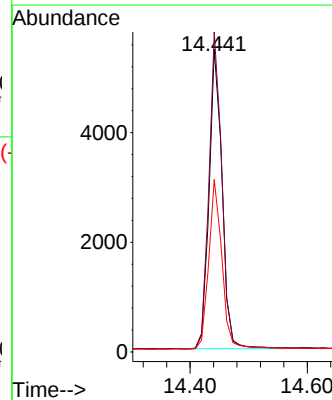
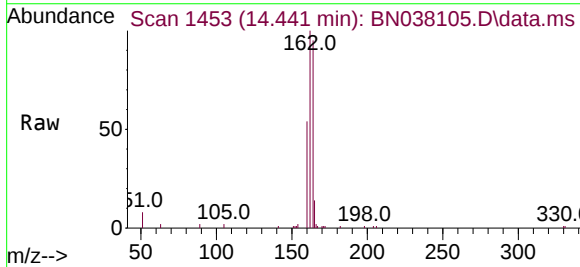
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

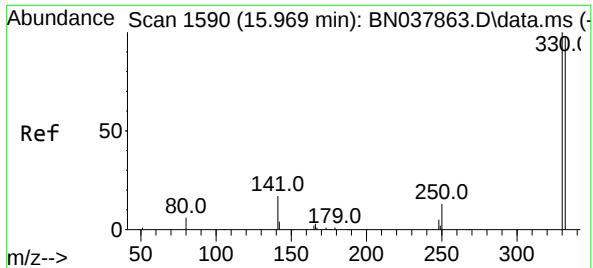
Tgt Ion:152 Resp: 6748
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion:164 Resp: 8401
Ion Ratio Lower Upper
164 100
162 105.7 84.8 127.2
160 56.9 46.1 69.1

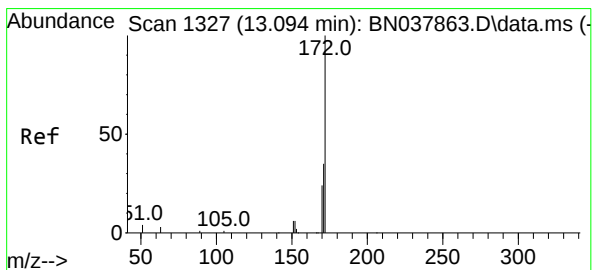
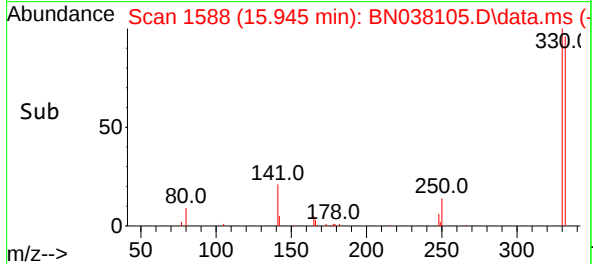
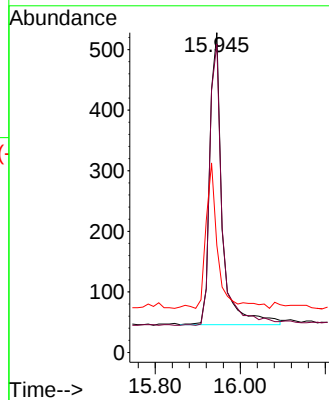
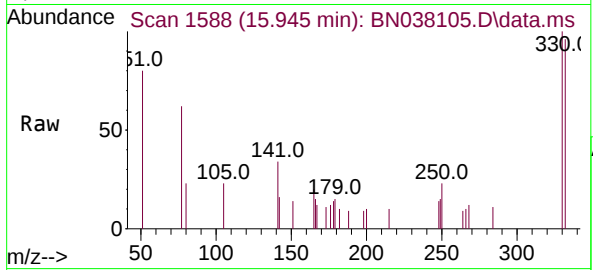




#14
2,4,6-Tribromophenol
Concen: 0.305 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

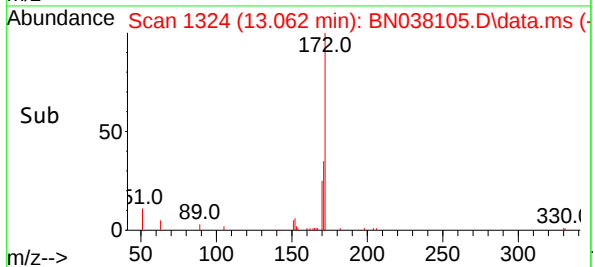
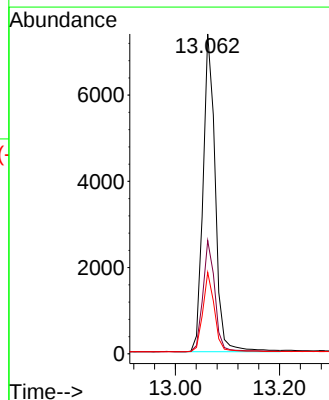
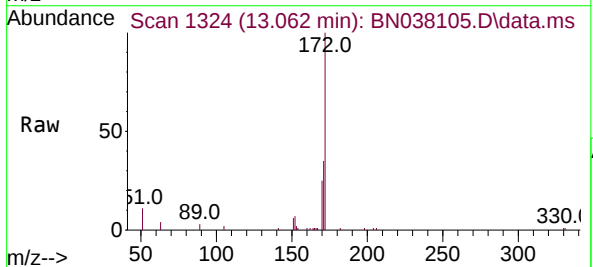
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

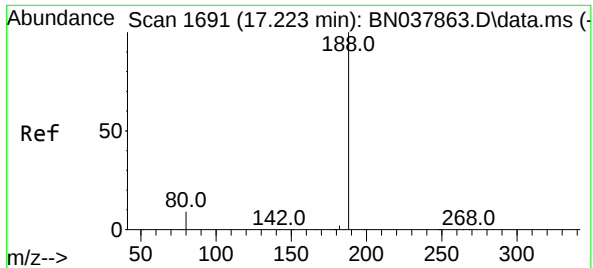
Tgt Ion:	330	Resp:	973
Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.2	115.8
141	47.8	37.2	55.8



#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion:	172	Resp:	11962
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	25.5	19.7	29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 1689

Delta R.T. 0.000 min

Lab File: BN038105.D

Acq: 20 Oct 2025 19:45

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-EB-20251016

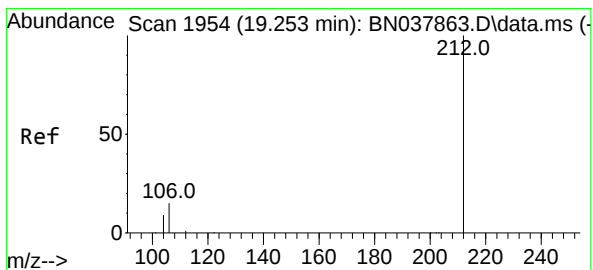
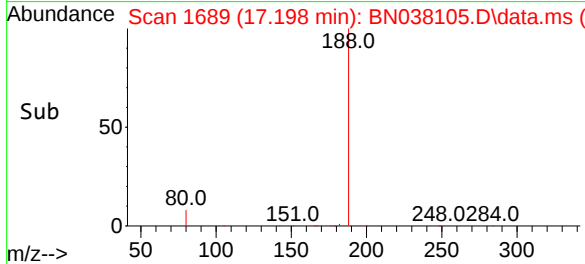
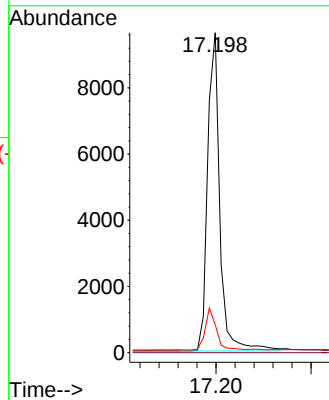
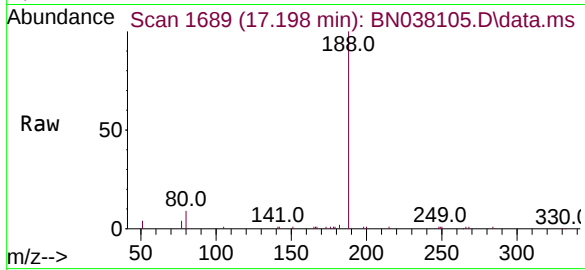
Tgt Ion:188 Resp: 17071

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.7 7.6 11.4



#27

Fluoranthene-d10

Concen: 0.421 ng

RT: 19.229 min Scan# 1949

Delta R.T. 0.000 min

Lab File: BN038105.D

Acq: 20 Oct 2025 19:45

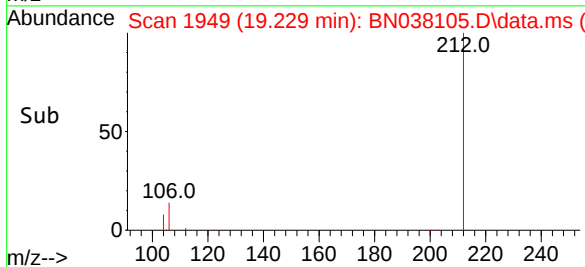
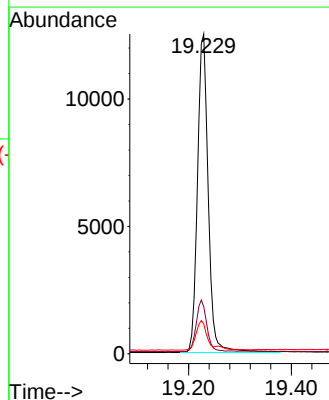
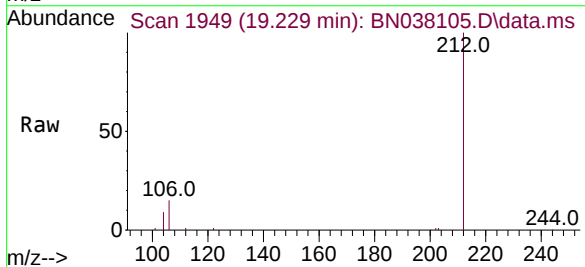
Tgt Ion:212 Resp: 18080

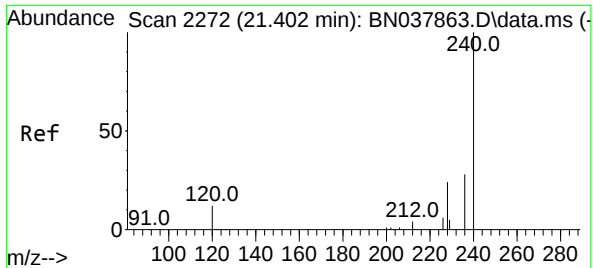
Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.2 7.4 11.0

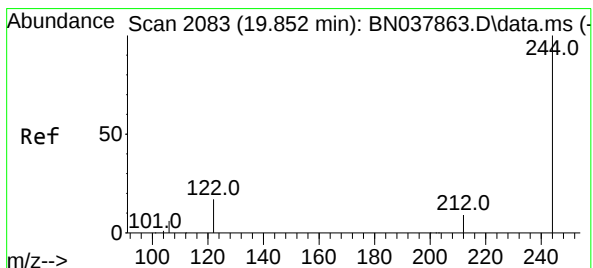
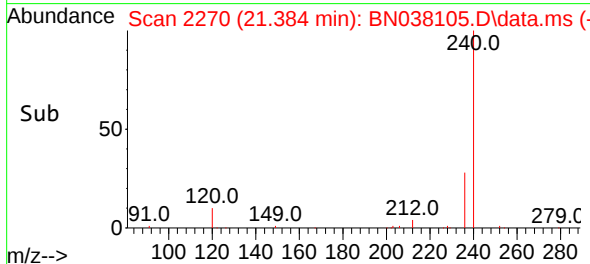
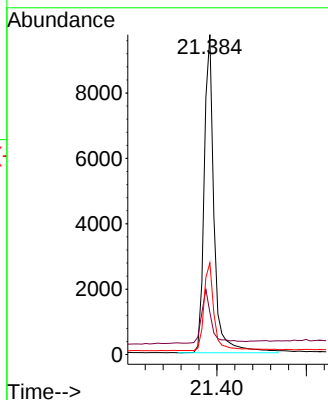
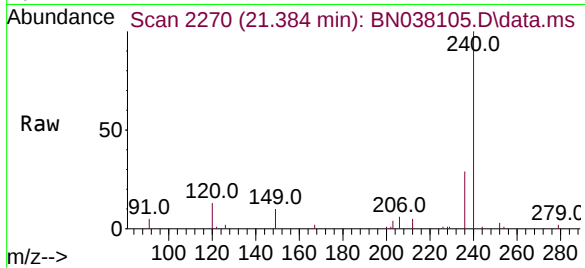




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

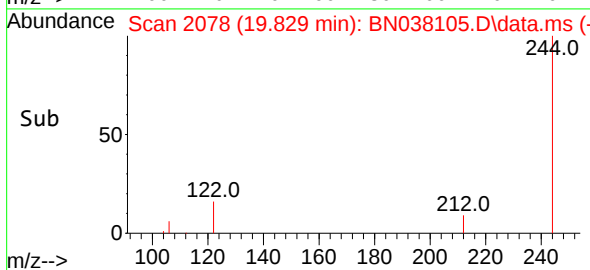
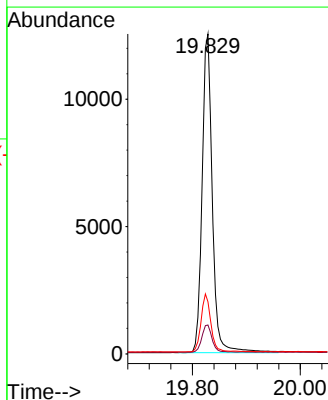
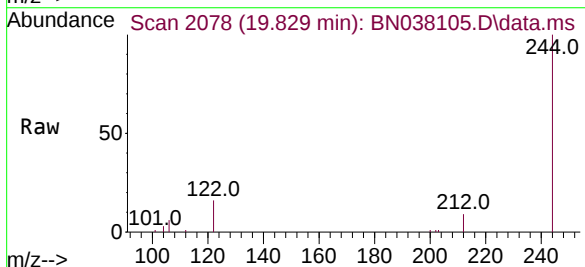
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

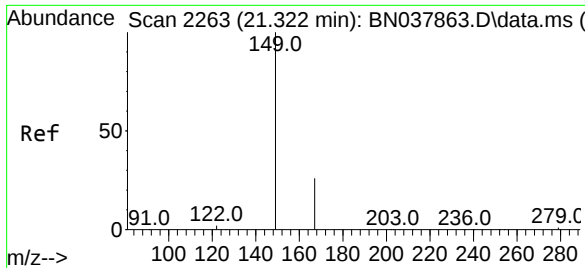
Tgt Ion:	240	Resp:	15030
Ion Ratio	Lower	Upper	
240	100		
120	13.2	11.4	17.2
236	28.7	23.0	34.6



#31
Terphenyl-d14
Concen: 0.549 ng
RT: 19.829 min Scan# 2078
Delta R.T. -0.005 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion:	244	Resp:	16424
Ion Ratio	Lower	Upper	
244	100		
212	9.0	7.6	11.4
122	16.3	13.9	20.9

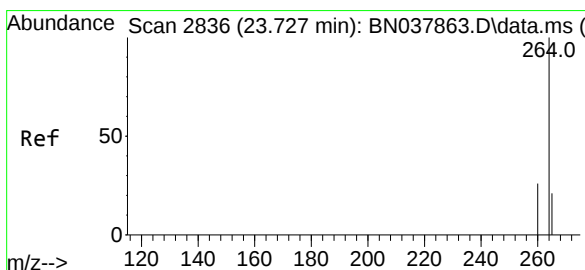
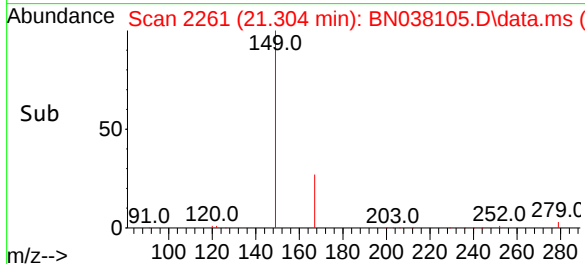
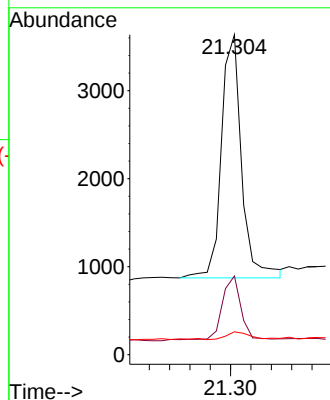
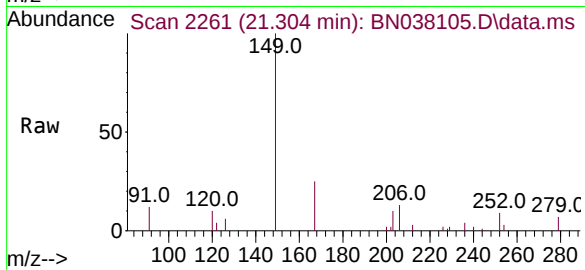




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.184 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

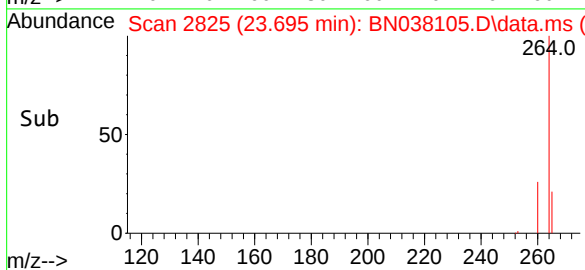
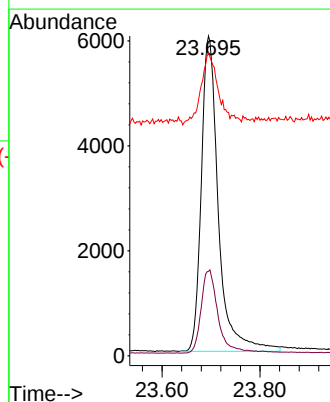
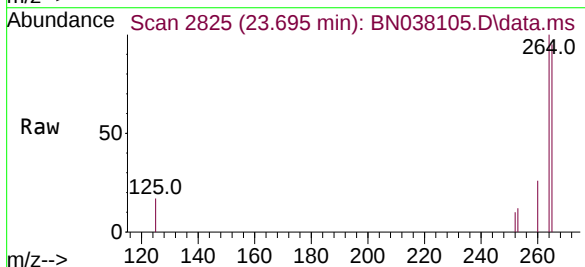
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20251016

Tgt Ion:149 Resp: 3816
Ion Ratio Lower Upper
149 100
167 23.6 20.4 30.6
279 3.9 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.695 min Scan# 2825
Delta R.T. -0.006 min
Lab File: BN038105.D
Acq: 20 Oct 2025 19:45

Tgt Ion:264 Resp: 14485
Ion Ratio Lower Upper
264 100
260 26.4 21.5 32.3
265 94.5 53.8 80.6#



Report of Analysis

Client: Tetra Tech NUS, Inc.	Date Collected: 10/10/25	
Project: NWIRP Bethpage 112G08005-WE13	Date Received: 10/16/25	
Client Sample ID: VPB184-HYD-20251010	SDG No.: Q3371	
Lab Sample ID: Q3371-03	Matrix: Water	
Analytical Method: SW8270ESIM Level : LOW	% Solid: 0	
Sample Wt/Vol: 970 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method :	Prep Date: 10/20/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.21	U	1	0.070	0.21	0.21	ug/L	10/20/25 20:21	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.016	*		30 - 150		4%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.042	*		30 - 150		10%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.34			55 - 111		86%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.34			53 - 106		84%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.55	*		58 - 132		137%	SPK: 0.4		
INTERNAL STANDARDS		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	7050								
1146-65-2	Naphthalene-d8	18600								
15067-26-2	Acenaphthene-d10	9630								
1517-22-2	Phenanthrene-d10	18000								
1719-03-5	Chrysene-d12	14000								
1520-96-3	Perylene-d12	12700								

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\BN102025\
Data File : BN038106.D
Acq On : 20 Oct 2025 20:21
Operator : RC/JU
Sample : Q3371-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

Quant Time: Oct 21 02:26:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

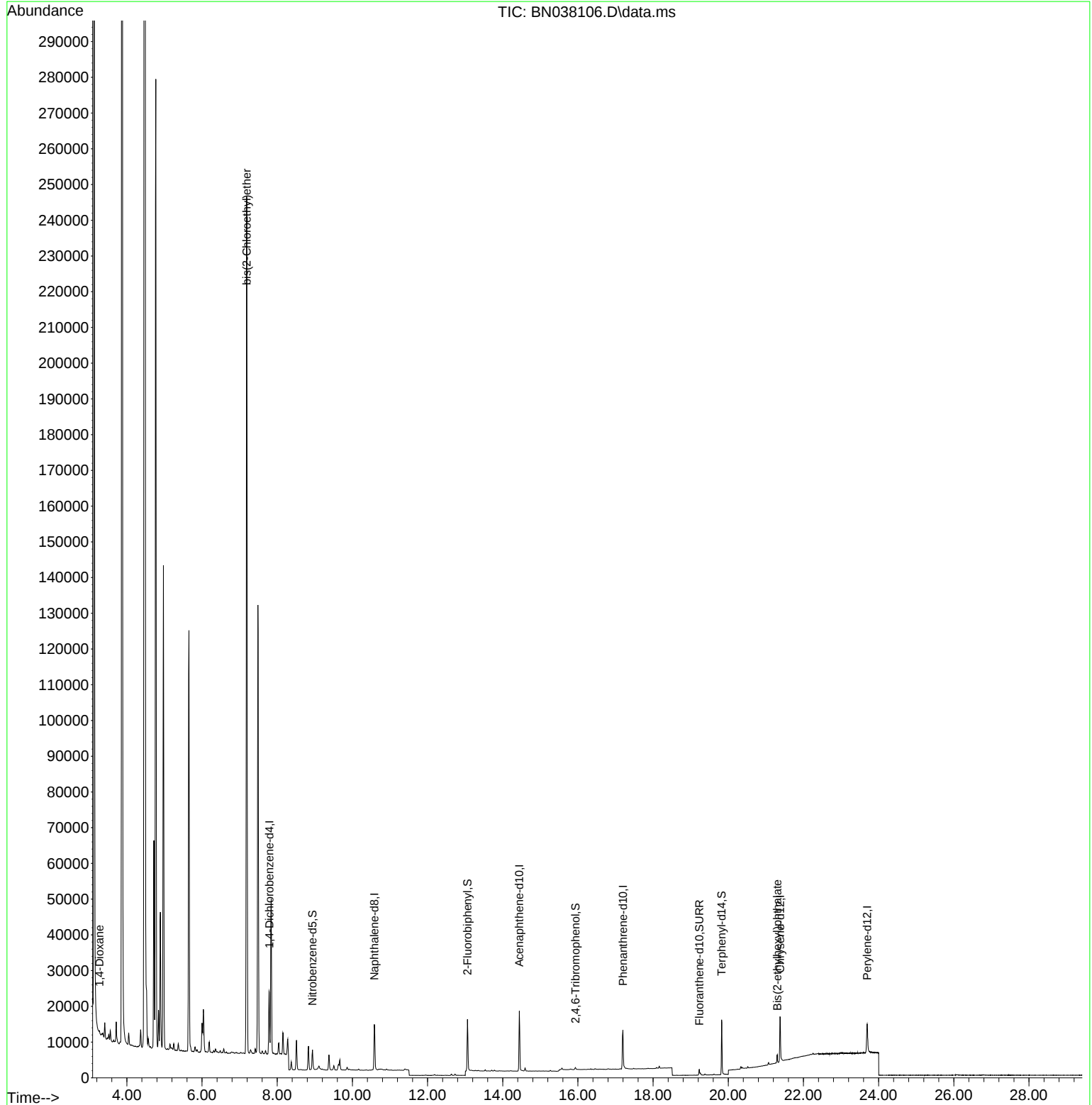
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	7049	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	18584	0.400	ng	# 0.00
13) Acenaphthene-d10	14.441	164	9633	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	18045	0.400	ng	0.00
29) Chrysene-d12	21.384	240	14009	0.400	ng	0.00
35) Perylene-d12	23.695	264	12701	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.363	112	35	0.002	ng	0.00
5) Phenol-d6	6.944	99	4	0.000	ng	0.00
8) Nitrobenzene-d5	8.939	82	4860	0.343	ng	0.00
11) 2-Methylnaphthalene-d10	12.187	152	418	0.016	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	313	0.086	ng	-0.01
15) 2-Fluorobiphenyl	13.062	172	13330	0.338	ng	0.00
27) Fluoranthene-d10	19.229	212	1918	0.042	ng	0.00
31) Terphenyl-d14	19.824	244	15238	0.546	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	302	0.042	ng	# 8
6) bis(2-Chloroethyl)ether	7.190	93	153227	7.810	ng	# 44
34) Bis(2-ethylhexyl)phtha...	21.304	149	2271	0.117	ng	# 93

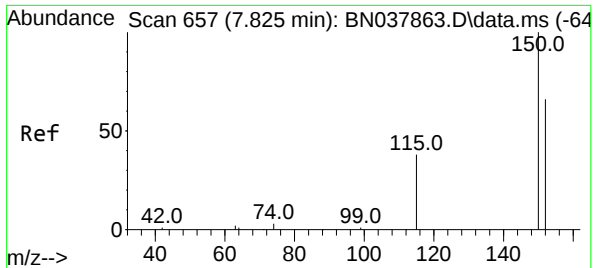
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038106.D
Acq On : 20 Oct 2025 20:21
Operator : RC/JU
Sample : Q3371-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

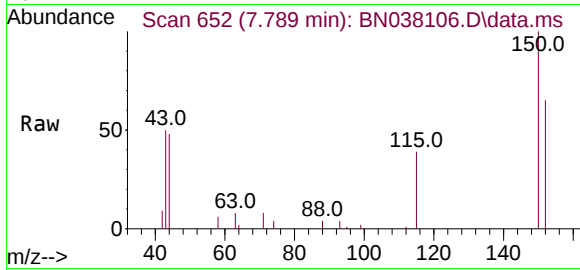
Quant Time: Oct 21 02:26:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



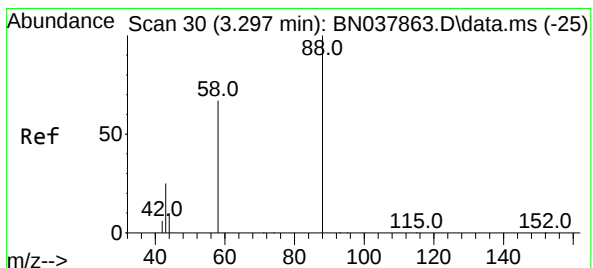
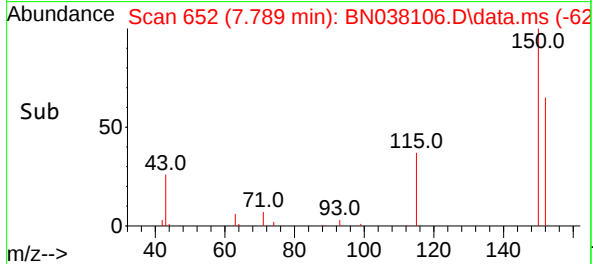
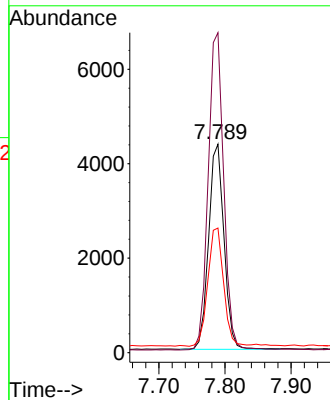


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

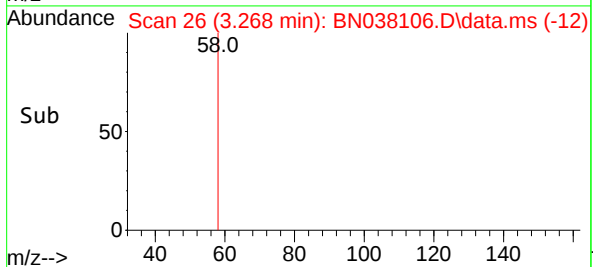
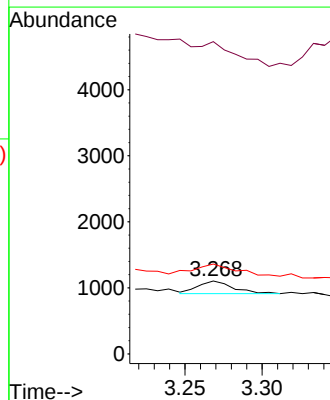
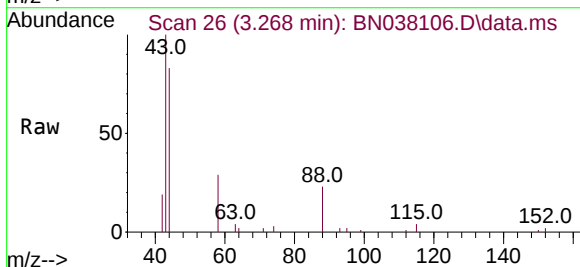


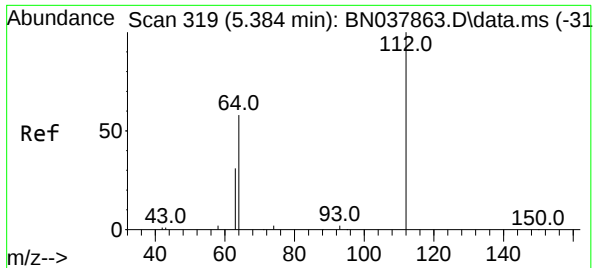
Tgt Ion:152 Resp: 7049
Ion Ratio Lower Upper
152 100
150 153.6 121.0 181.4
115 59.7 47.4 71.0



#2
1,4-Dioxane
Concen: 0.042 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 0.0 26.6 39.8#
58 164.2 58.9 88.3#

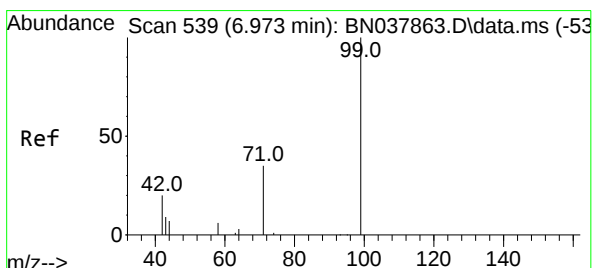
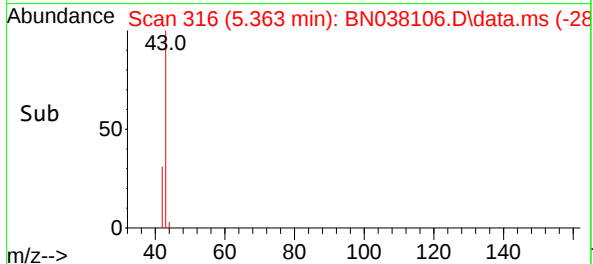
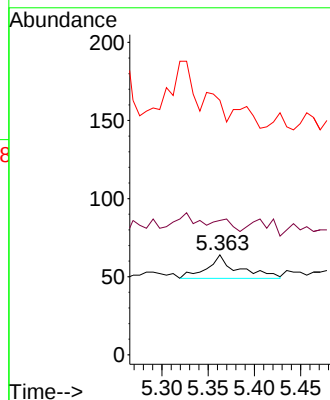
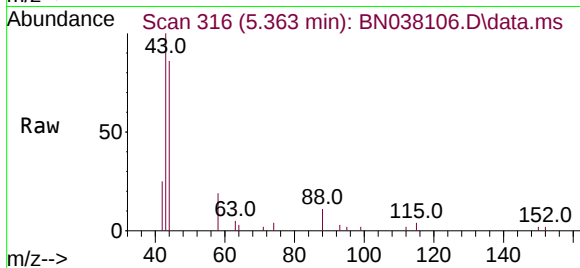




#4
2-Fluorophenol
Concen: 0.002 ng
RT: 5.363 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

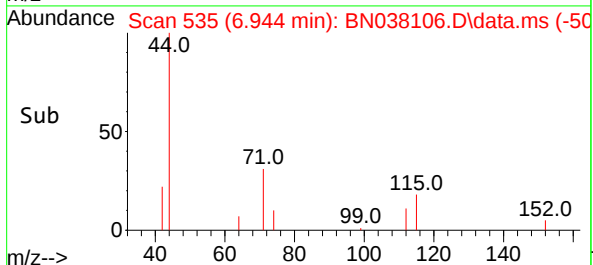
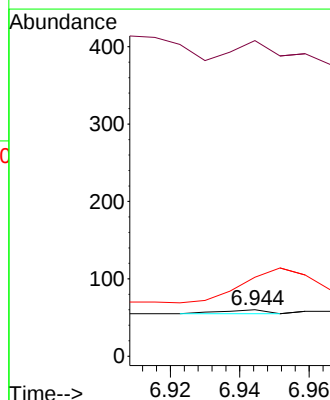
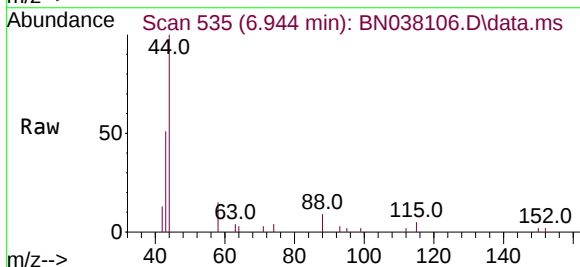
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

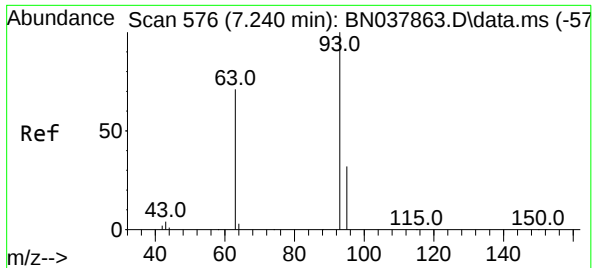
Tgt Ion:112 Resp: 35
Ion Ratio Lower Upper
112 100
64 28.6 44.6 66.8#
63 0.0 24.9 37.3#



#5
Phenol-d6
Concen: 0.000 ng
RT: 6.944 min Scan# 535
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion: 99 Resp: 4
Ion Ratio Lower Upper
99 100
42 825.0 17.2 25.8#
71 1625.0 27.3 40.9#

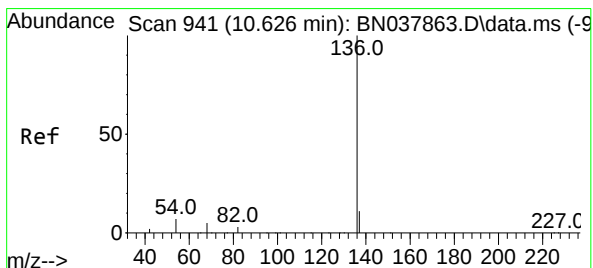
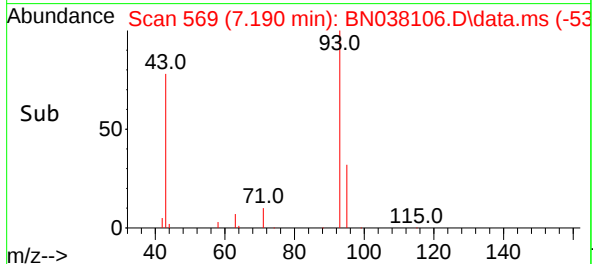
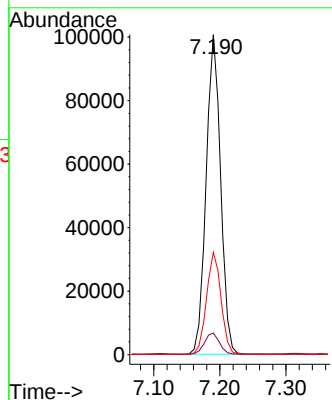
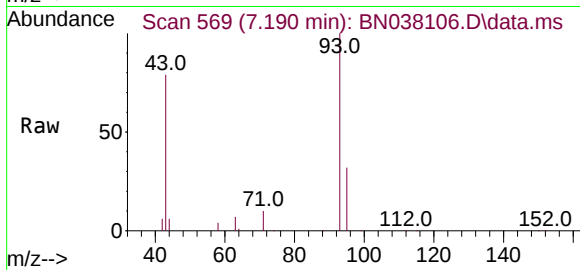




#6
bis(2-Chloroethyl)ether
Concen: 7.810 ng
RT: 7.190 min Scan# 50
Delta R.T. -0.014 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

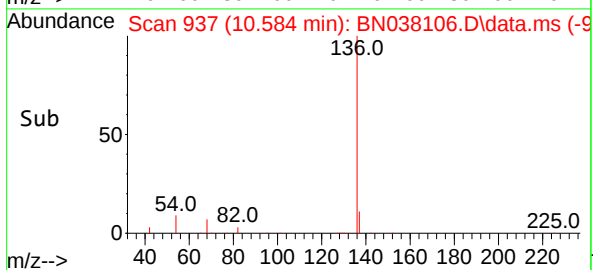
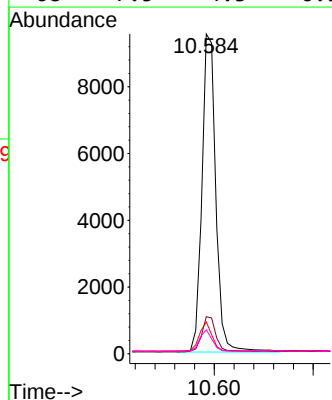
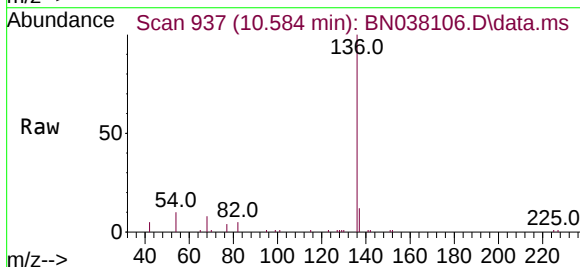
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

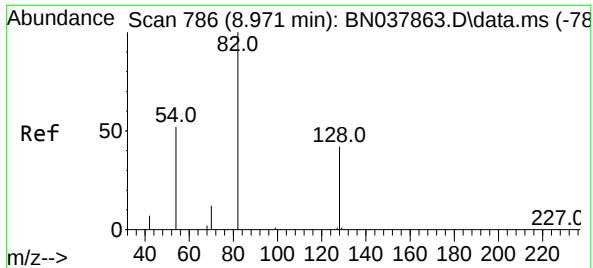
Tgt Ion: 93 Resp: 153227
Ion Ratio Lower Upper
93 100
63 6.8 60.1 90.1#
95 32.0 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion: 136 Resp: 18584
Ion Ratio Lower Upper
136 100
137 11.6 9.0 13.4
54 10.0 5.8 8.8#
68 7.5 4.3 6.5#

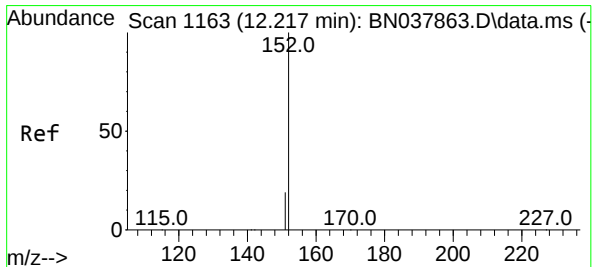
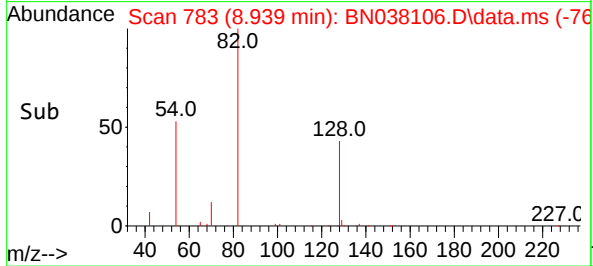
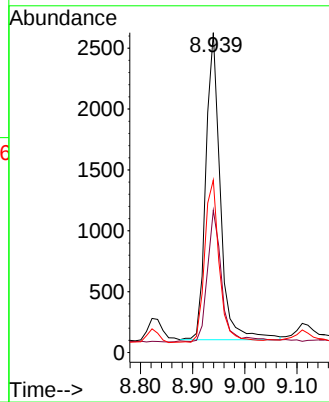
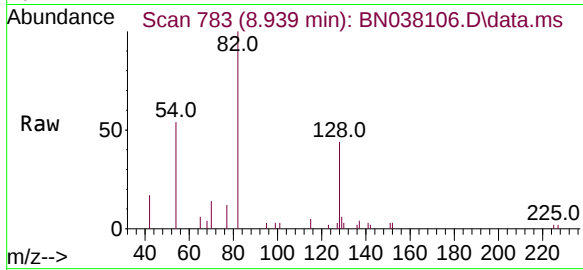




#8
Nitrobenzene-d5
Concen: 0.343 ng
RT: 8.939 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

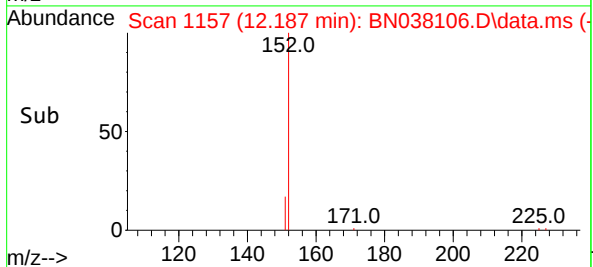
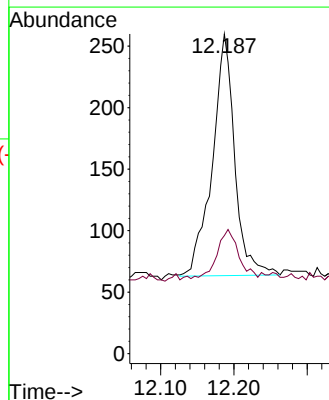
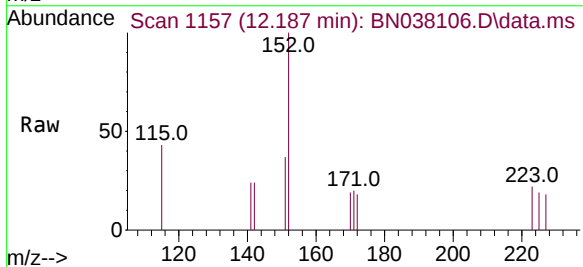
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

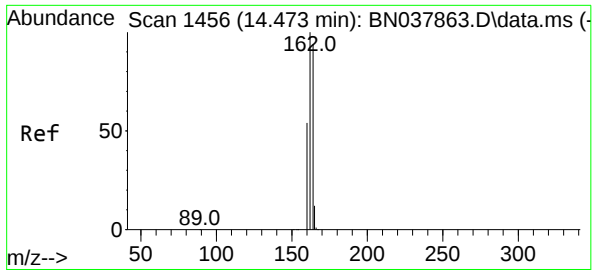
Tgt Ion:	82	Resp:	4860
Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.8	52.2
54	53.9	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.016 ng
RT: 12.187 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion:	152	Resp:	418
Ion	Ratio	Lower	Upper
152	100		
151	19.4	17.4	26.2

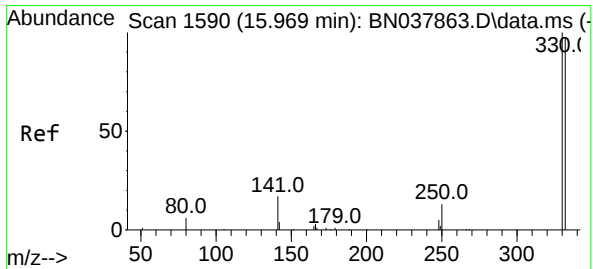
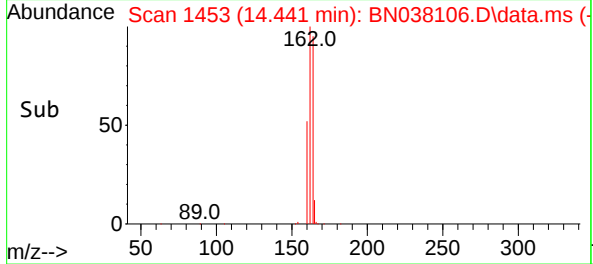
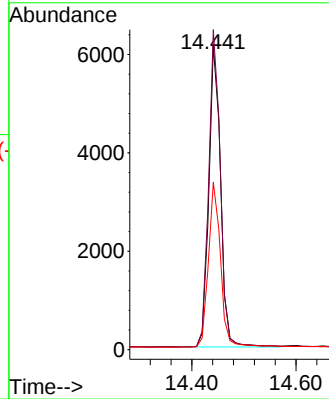
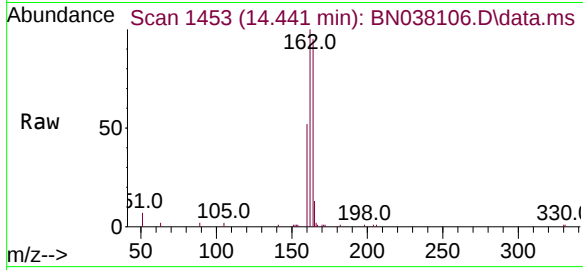




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

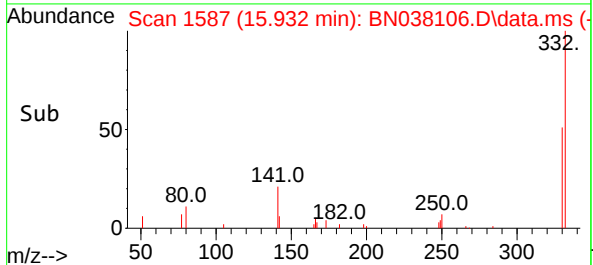
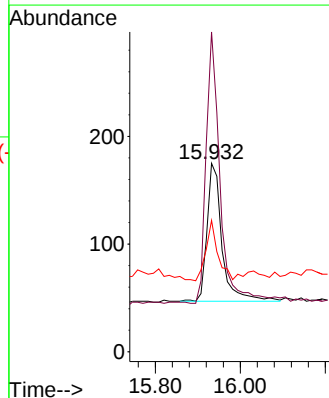
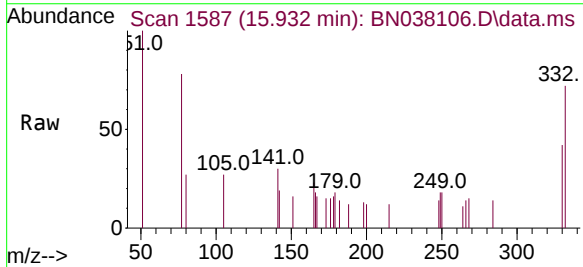
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

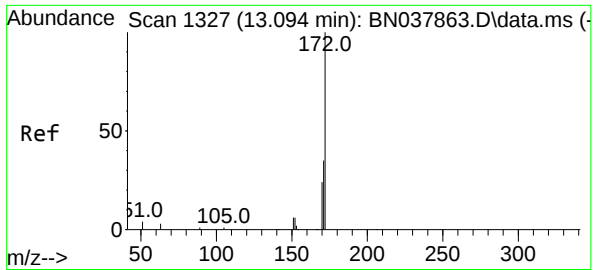
Tgt Ion:164 Resp: 9633
Ion Ratio Lower Upper
164 100
162 105.4 84.8 127.2
160 55.1 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.086 ng
RT: 15.932 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion:330 Resp: 313
Ion Ratio Lower Upper
330 100
332 183.7 77.2 115.8#
141 32.9 37.2 55.8#

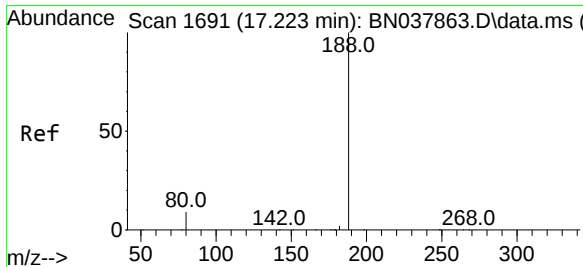
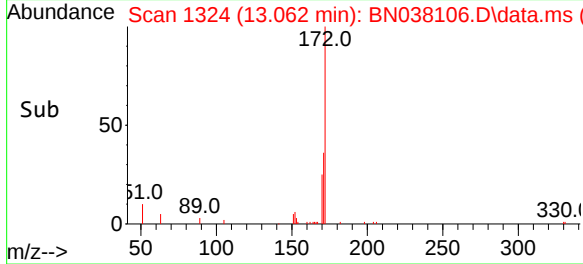
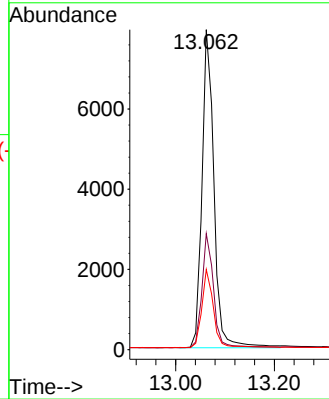
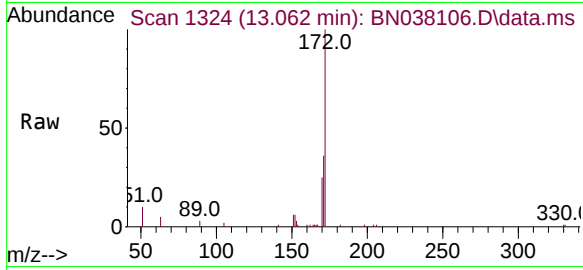




#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 13.062 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

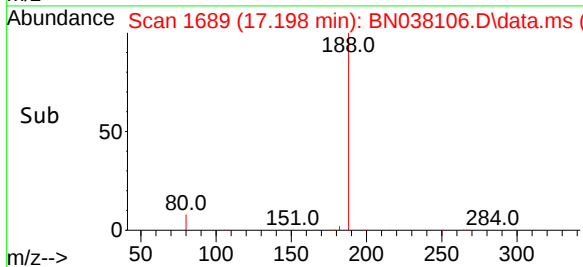
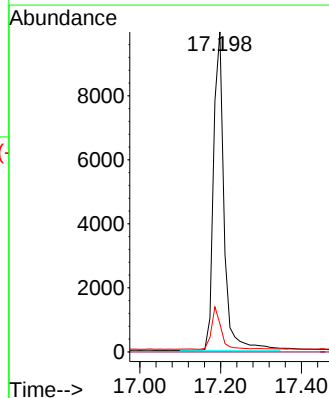
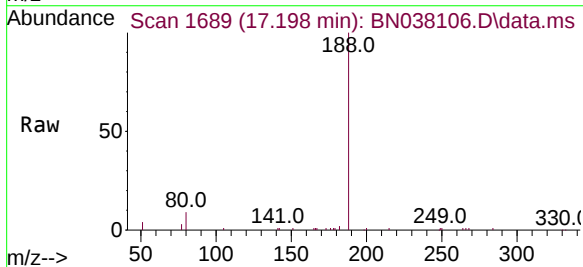
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

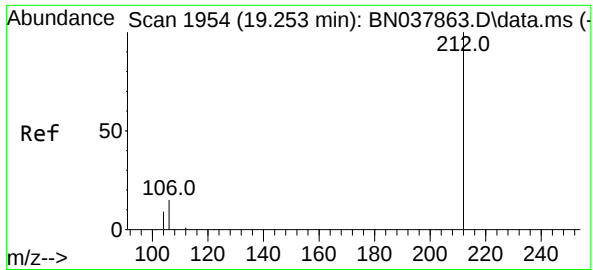
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	25.0	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	7.6	11.4





#27

Fluoranthene-d10

Concen: 0.042 ng

RT: 19.229 min Scan# 19

Delta R.T. -0.000 min

Lab File: BN038106.D

Acq: 20 Oct 2025 20:21

Instrument :

BNA_N

ClientSampleId :

VPB184-HYD-20251010

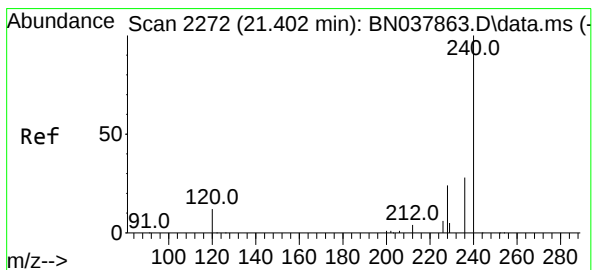
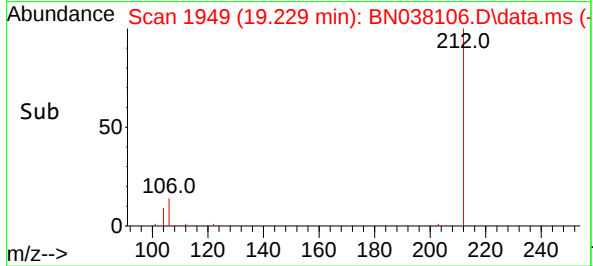
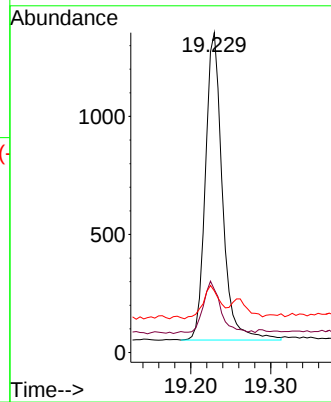
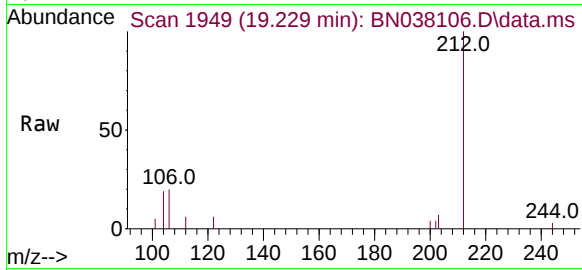
Tgt Ion:212 Resp: 1918

Ion Ratio Lower Upper

212 100

106 16.2 12.6 19.0

104 10.4 7.4 11.0



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BN038106.D

Acq: 20 Oct 2025 20:21

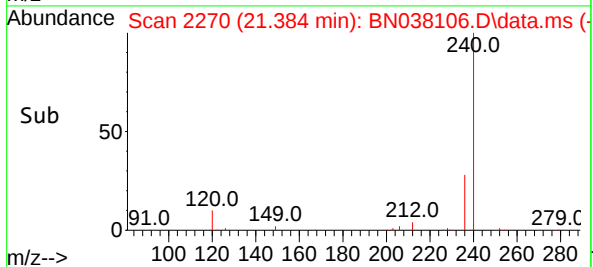
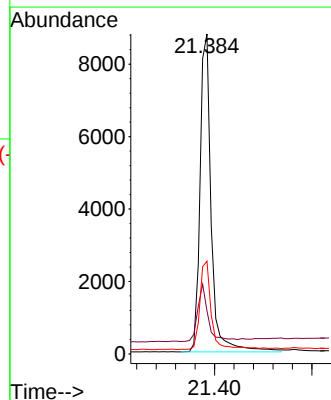
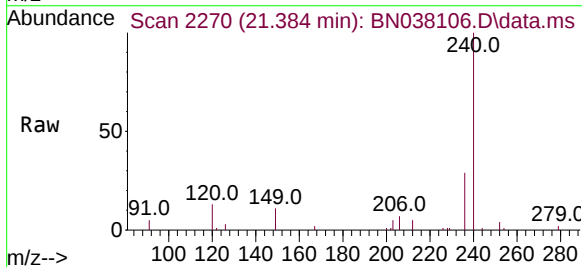
Tgt Ion:240 Resp: 14009

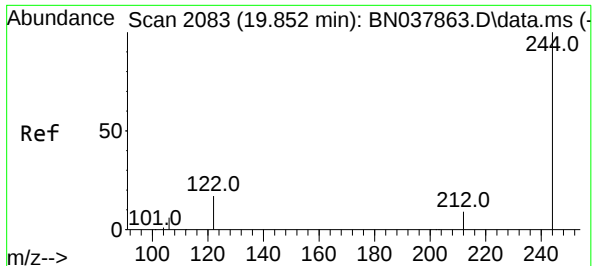
Ion Ratio Lower Upper

240 100

120 13.5 11.4 17.2

236 29.0 23.0 34.6

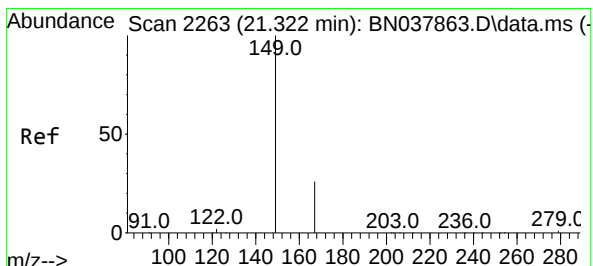
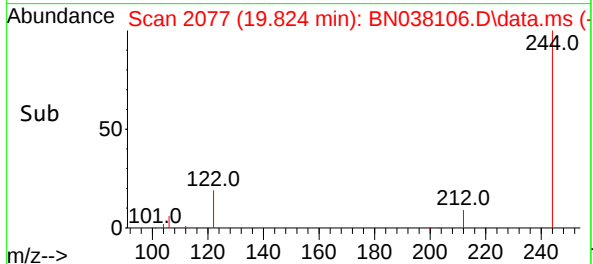
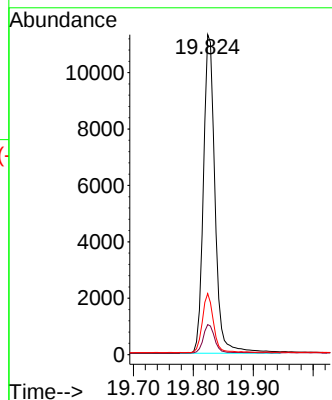
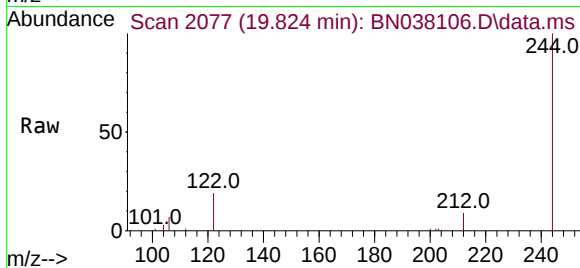




#31
Terphenyl-d14
Concen: 0.546 ng
RT: 19.824 min Scan# 2083
Delta R.T. -0.009 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

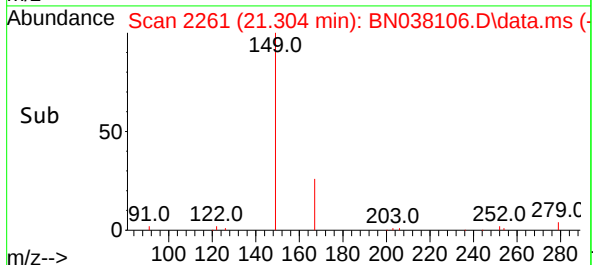
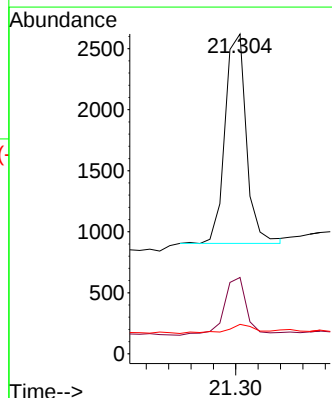
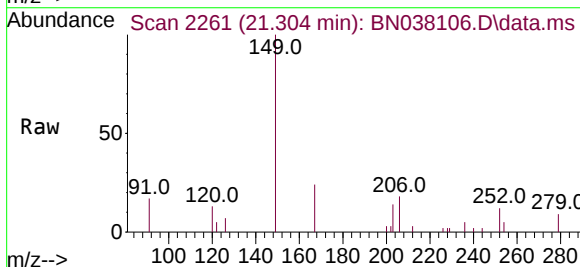
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010

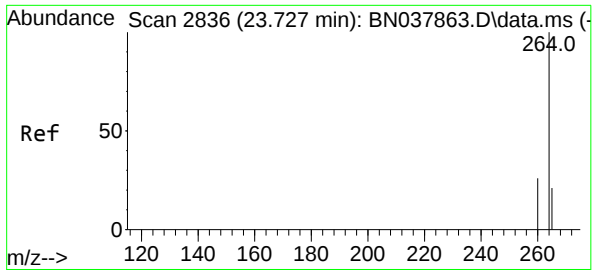
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.6	11.4
122	19.1	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.117 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.000 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

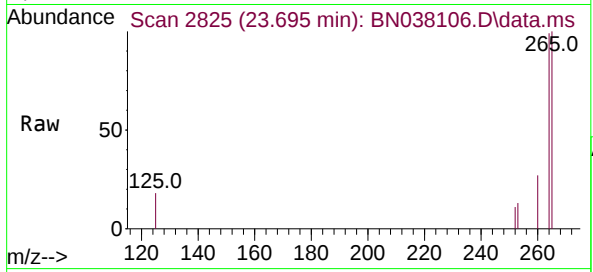
Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.9	20.4	30.6
279	5.9	2.4	3.6



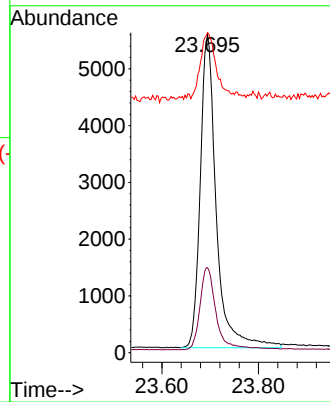
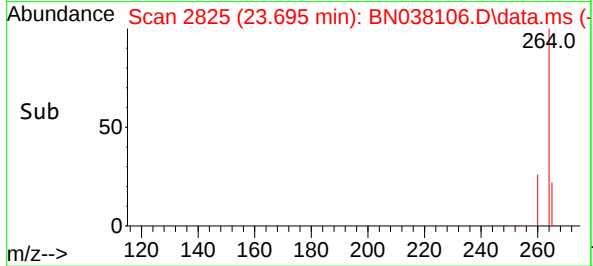


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.695 min Scan# 2836
Delta R.T. -0.006 min
Lab File: BN038106.D
Acq: 20 Oct 2025 20:21

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251010



Tgt Ion:264 Resp: 12701
Ion Ratio Lower Upper
264 100
260 26.7 21.5 32.3
265 100.7 53.8 80.6#



Report of Analysis

Client: Tetra Tech NUS, Inc.	Date Collected: 10/15/25	
Project: NWIRP Bethpage 112G08005-WE13	Date Received: 10/16/25	
Client Sample ID: BP-VPB-184-GW-920-922	SDG No.: Q3371	
Lab Sample ID: Q3371-05	Matrix: Water	
Analytical Method: SW8270ESIM Level : LOW	% Solid: 0	
Sample Wt/Vol: 790 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method :	Prep Date: 10/20/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.25	U	1	0.080	0.25	0.25	ug/L	10/20/25 20:58	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.29			30 - 150		73%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.41			30 - 150		101%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.35			55 - 111		88%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.33			53 - 106		83%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.55	*		58 - 132		137%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	7240								
1146-65-2	Naphthalene-d8	19100								
15067-26-2	Acenaphthene-d10	10100								
1517-22-2	Phenanthrene-d10	20200								
1719-03-5	Chrysene-d12	17500								
1520-96-3	Perylene-d12	17400								

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\BN102025\
Data File : BN038107.D
Acq On : 20 Oct 2025 20:58
Operator : RC/JU
Sample : Q3371-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

Quant Time: Oct 21 02:27:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

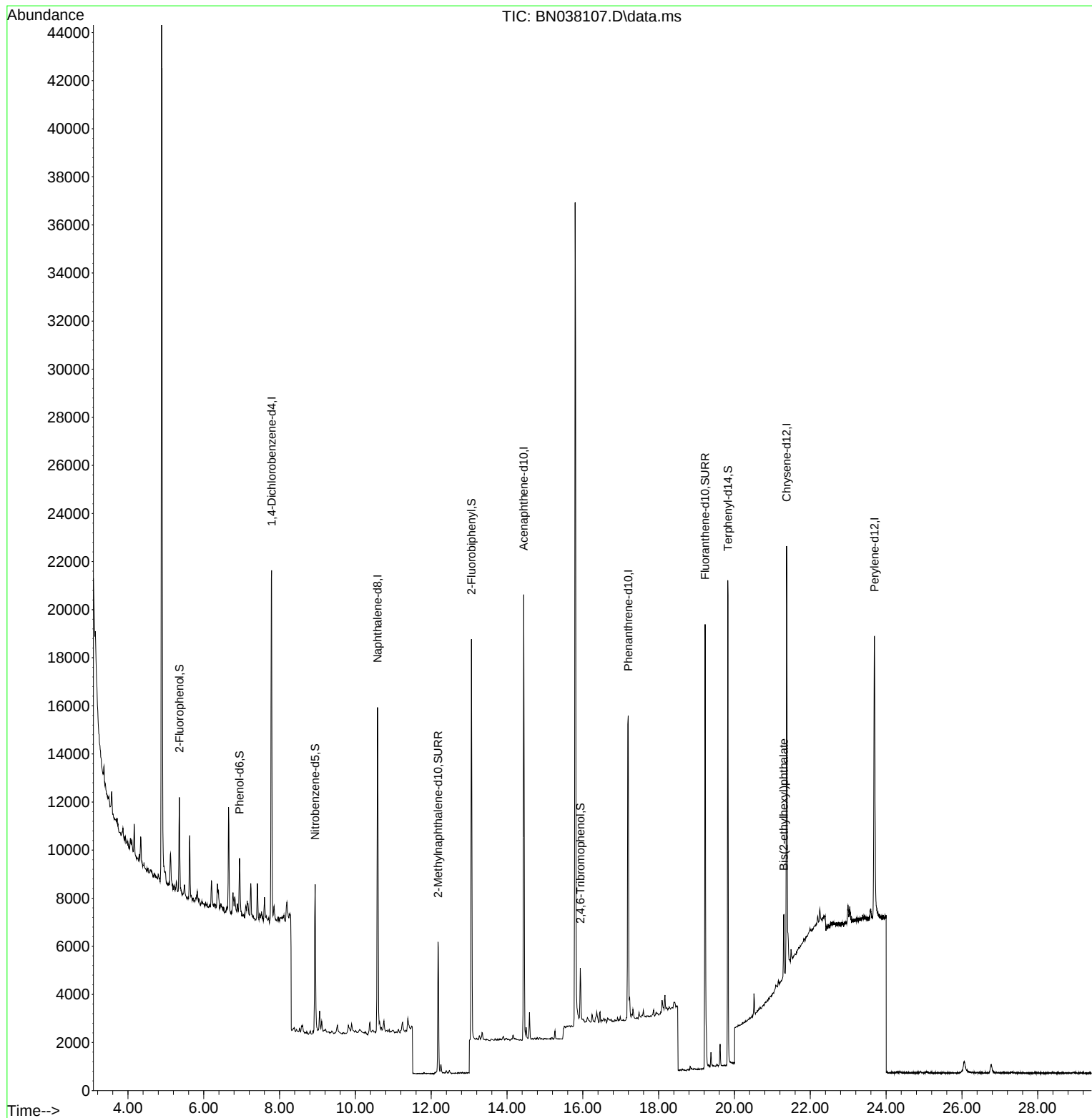
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	7237	0.400	ng	0.00
7) Naphthalene-d8	10.583	136	19084	0.400	ng	# 0.00
13) Acenaphthene-d10	14.441	164	10109	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	20161	0.400	ng	0.00
29) Chrysene-d12	21.375	240	17522	0.400	ng	# 0.00
35) Perylene-d12	23.692	264	17404	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	2932	0.178	ng	0.00
5) Phenol-d6	6.944	99	2078	0.096	ng	0.00
8) Nitrobenzene-d5	8.939	82	5120	0.352	ng	0.00
11) 2-Methylnaphthalene-d10	12.182	152	7724	0.291	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1295	0.338	ng	-0.01
15) 2-Fluorobiphenyl	13.062	172	13778	0.333	ng	0.00
27) Fluoranthene-d10	19.225	212	20578	0.406	ng	0.00
31) Terphenyl-d14	19.828	244	19121	0.548	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.295	149	2965	0.122	ng	# 99

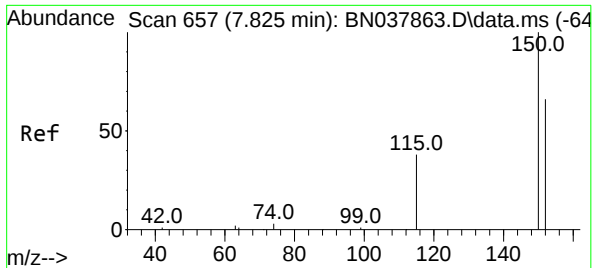
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038107.D
Acq On : 20 Oct 2025 20:58
Operator : RC/JU
Sample : Q3371-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

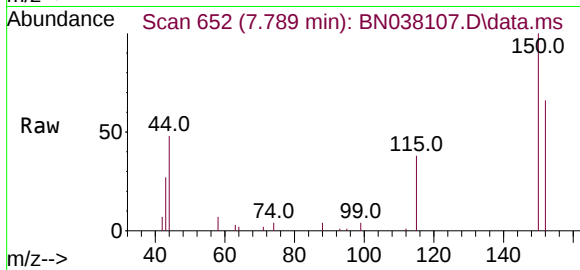
Quant Time: Oct 21 02:27:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



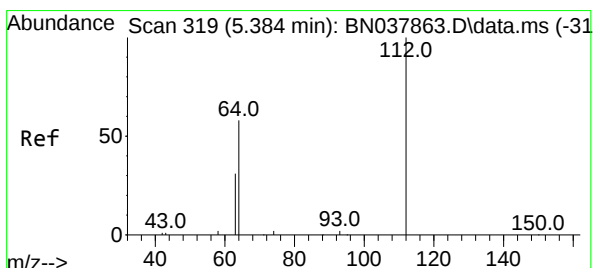
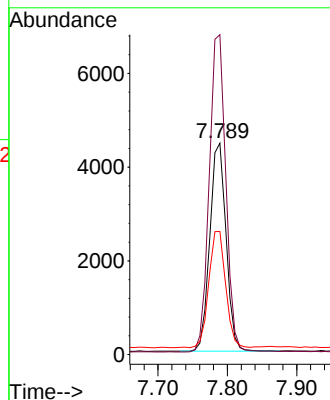
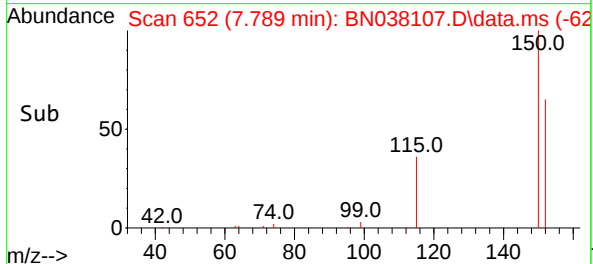


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

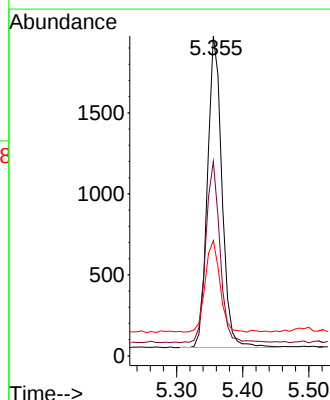
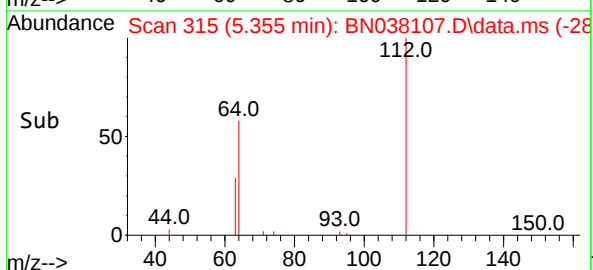
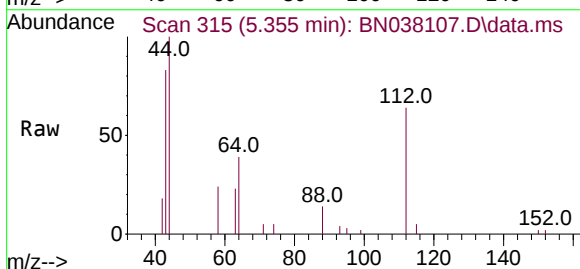


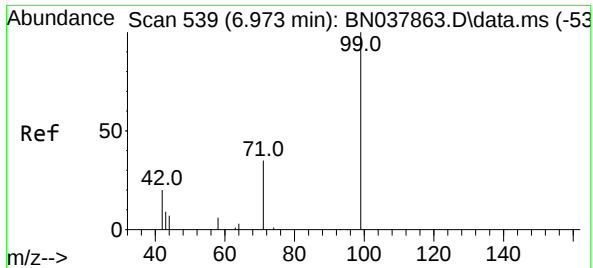
Tgt Ion:152 Resp: 7237
Ion Ratio Lower Upper
152 100
150 151.3 121.0 181.4
115 58.2 47.4 71.0



#4
2-Fluorophenol
Concen: 0.178 ng
RT: 5.355 min Scan# 315
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion:112 Resp: 2932
Ion Ratio Lower Upper
112 100
64 57.2 44.6 66.8
63 29.9 24.9 37.3

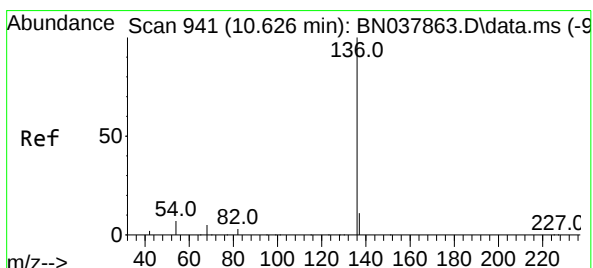
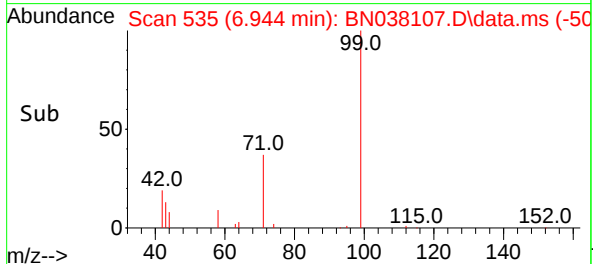
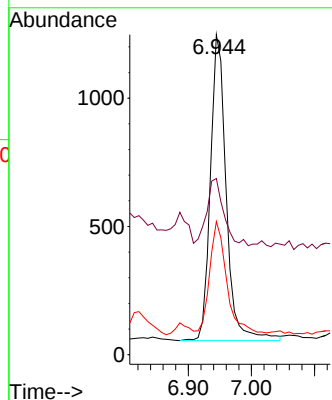
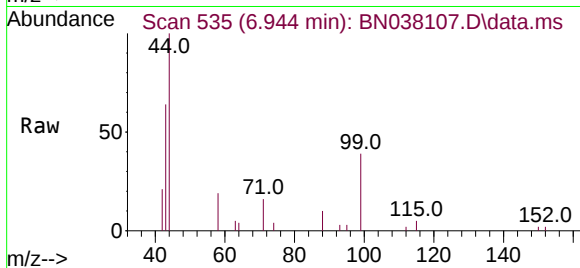




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.944 min Scan# 531
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

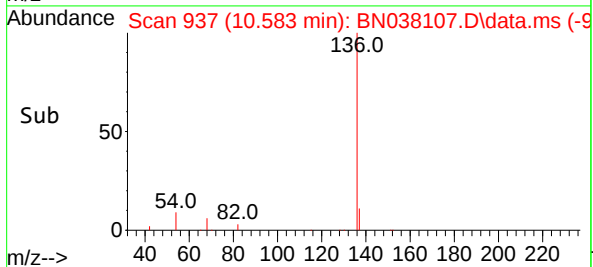
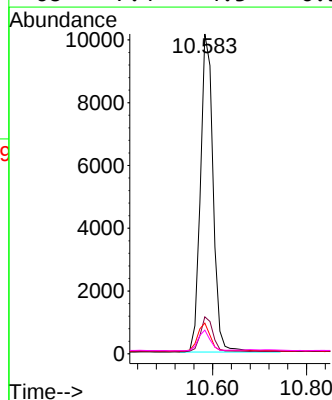
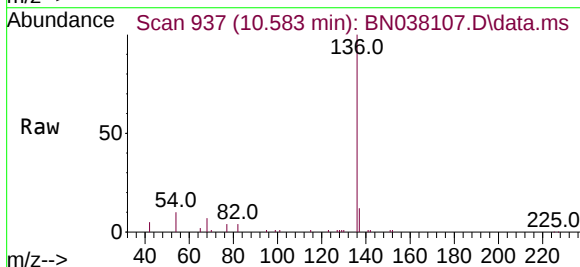
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

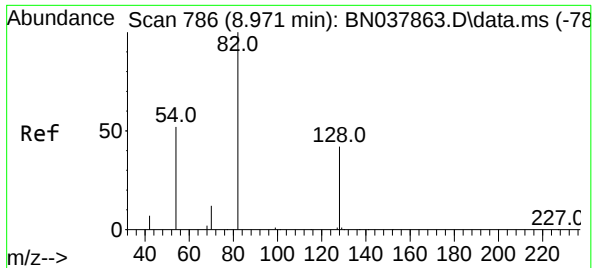
Tgt Ion:	99	Resp:	2078
Ion	Ratio	Lower	Upper
99	100		
42	22.7	17.2	25.8
71	38.3	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.583 min Scan# 937
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion:	136	Resp:	19084
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	9.6	5.8	8.8#
68	7.4	4.3	6.5#

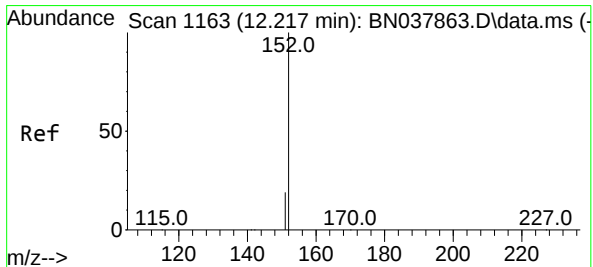
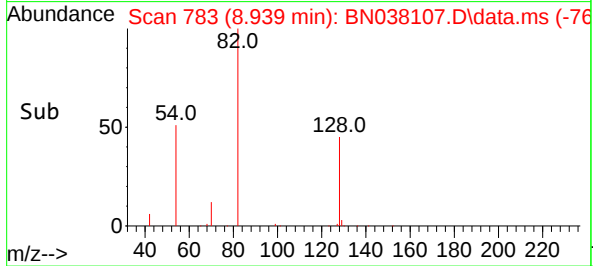
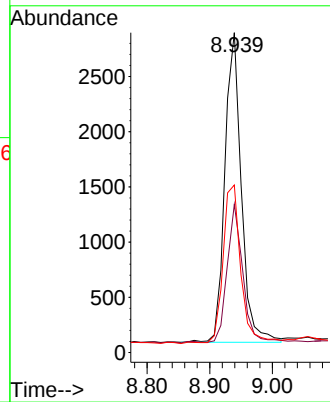
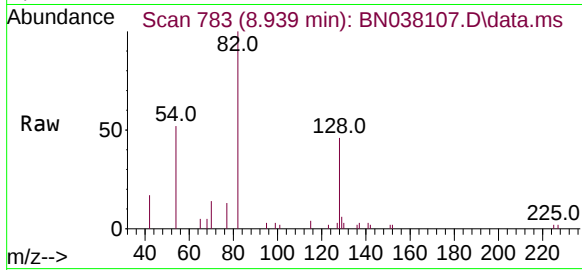




#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.939 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

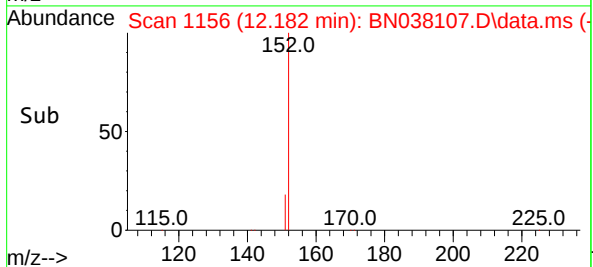
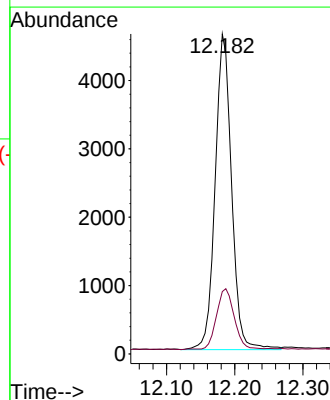
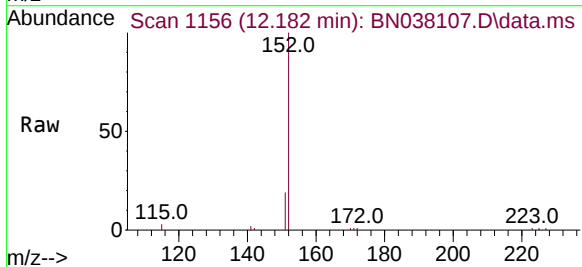
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

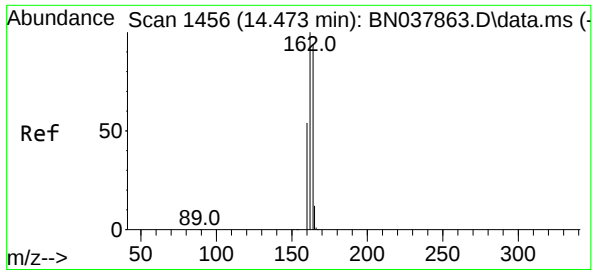
Tgt Ion	82	Resp:	5120
Ion Ratio	Lower	Upper	
82	100		
128	46.3	34.8	52.2
54	52.4	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.182 min Scan# 1156
Delta R.T. -0.005 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion	152	Resp:	7724
Ion Ratio	Lower	Upper	
152	100		
151	20.9	17.4	26.2

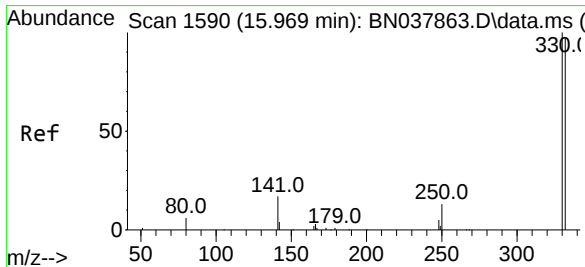
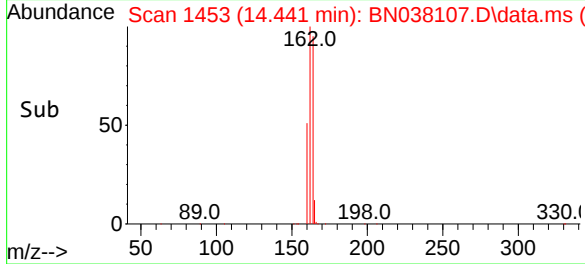
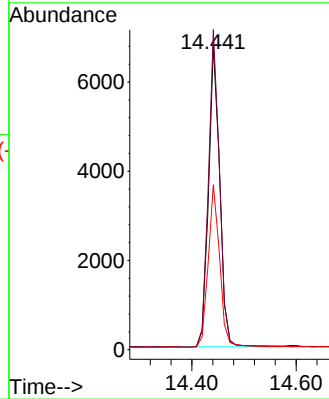
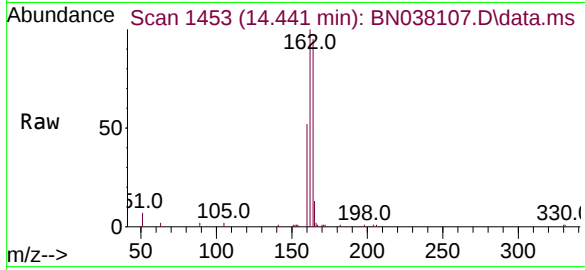




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

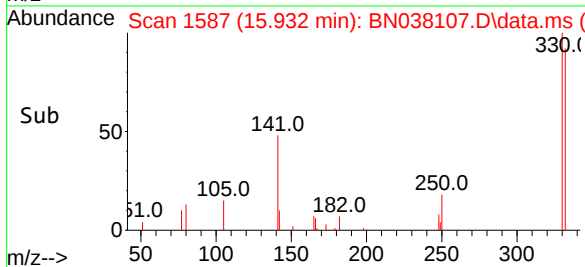
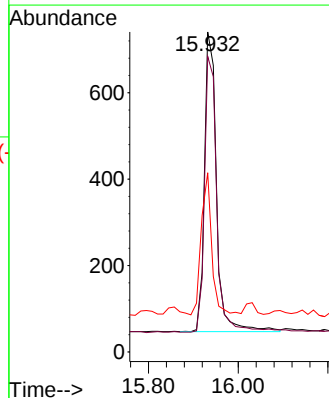
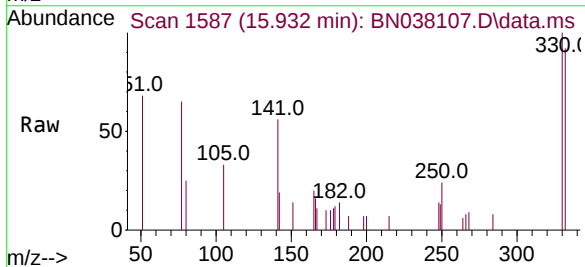
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

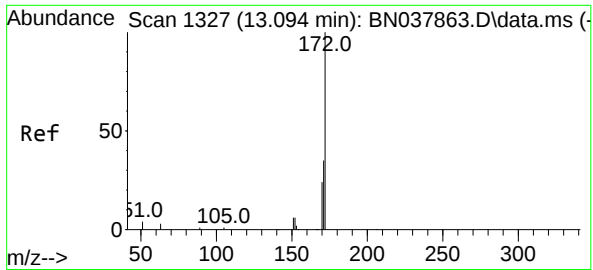
Tgt Ion:164 Resp: 10109
Ion Ratio Lower Upper
164 100
162 105.2 84.8 127.2
160 54.2 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.338 ng
RT: 15.932 min Scan# 1587
Delta R.T. -0.013 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion:330 Resp: 1295
Ion Ratio Lower Upper
330 100
332 93.4 77.2 115.8
141 40.8 37.2 55.8

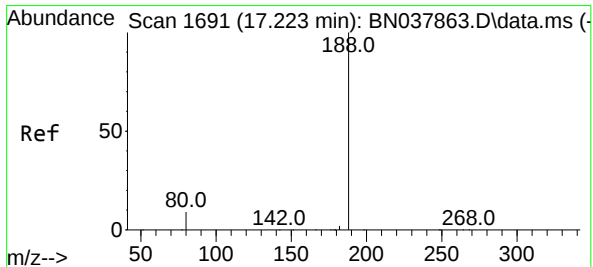
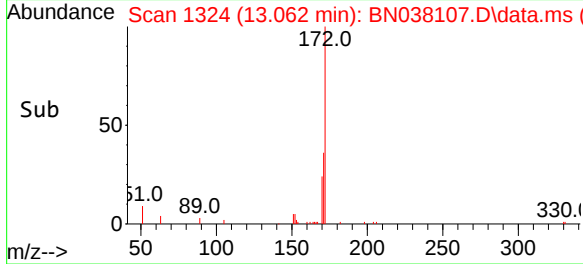
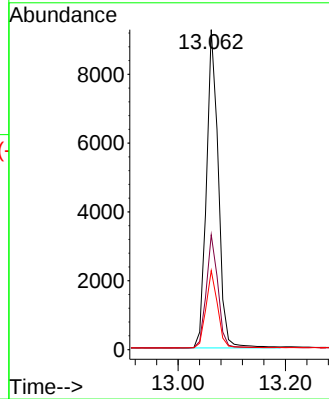
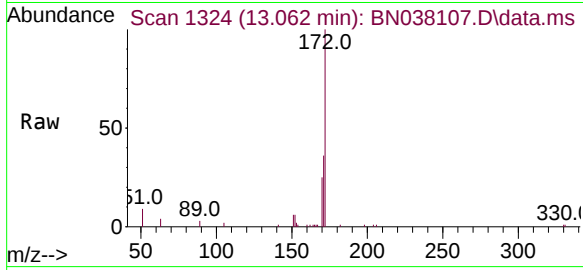




#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.062 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

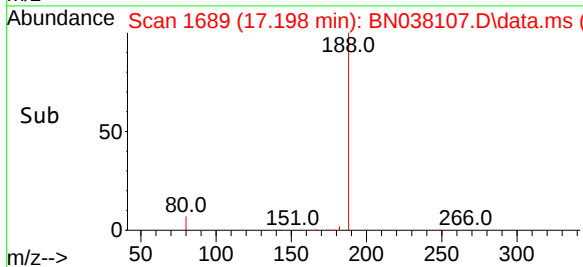
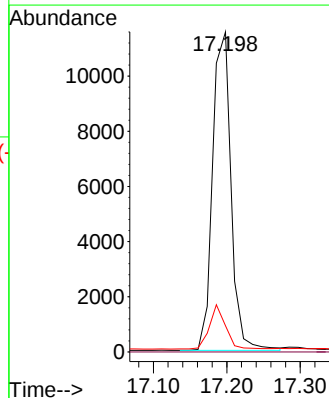
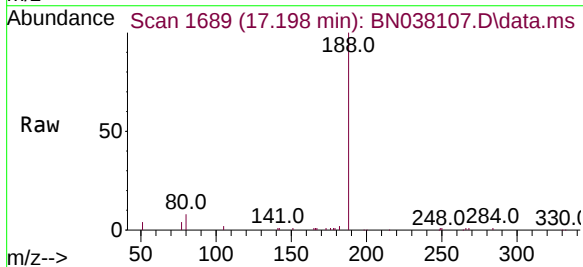
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

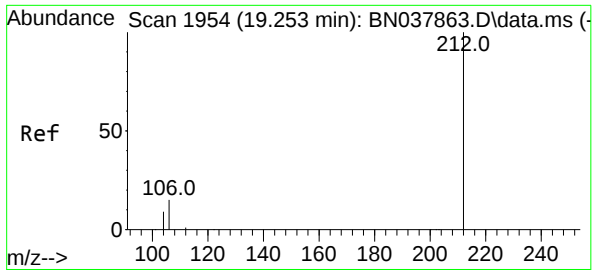
Tgt Ion:	172	Resp:	13778
Ion Ratio	Lower	Upper	
172	100		
171	35.9	28.6	43.0
170	24.7	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. -0.000 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion:	188	Resp:	20161
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.2	7.6	11.4

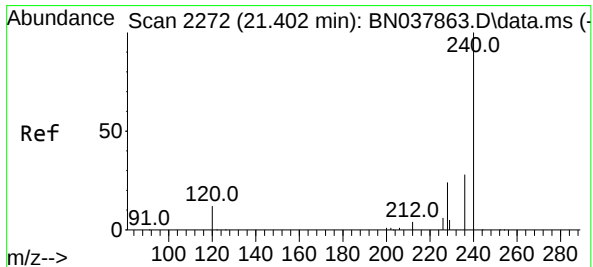
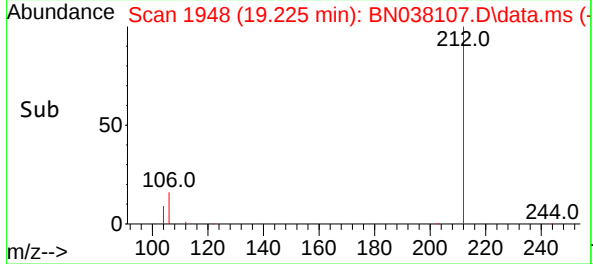
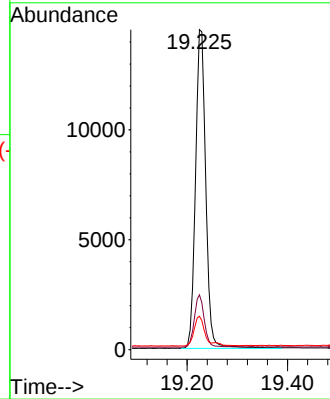
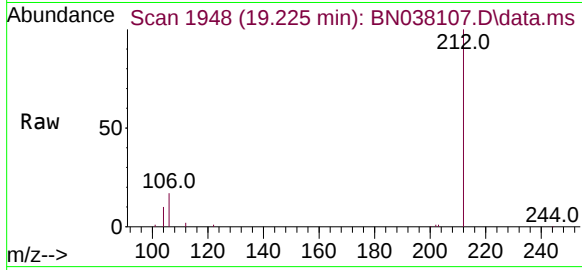




#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 19.225 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

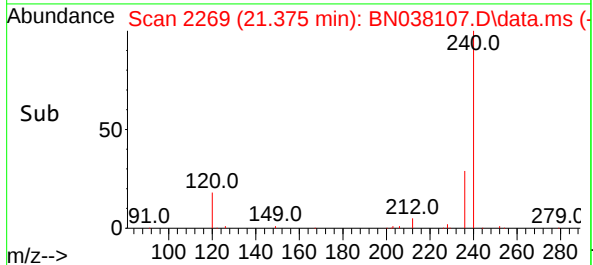
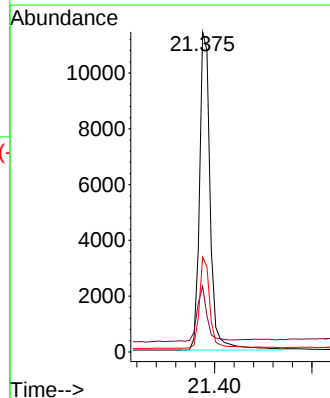
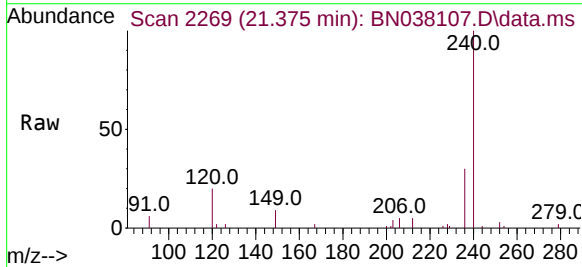
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

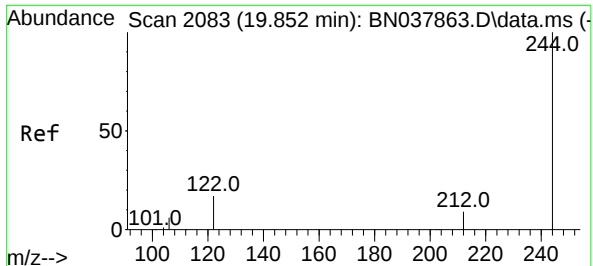
Tgt Ion:212 Resp: 20578
Ion Ratio Lower Upper
212 100
106 16.3 12.6 19.0
104 10.3 7.4 11.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2269
Delta R.T. -0.009 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion:240 Resp: 17522
Ion Ratio Lower Upper
240 100
120 20.5 11.4 17.2#
236 29.6 23.0 34.6

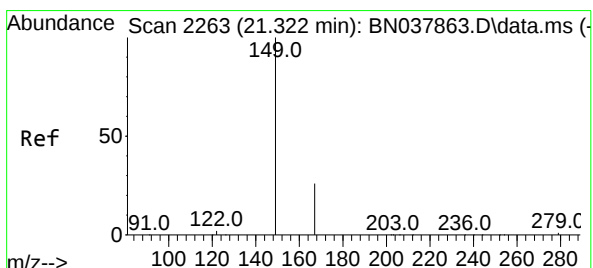
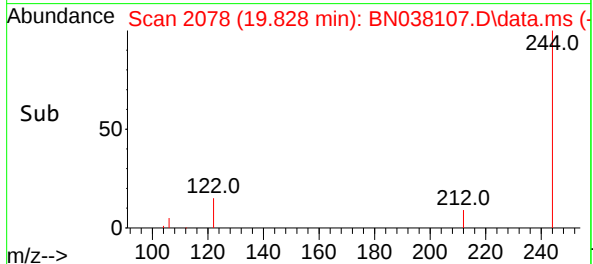
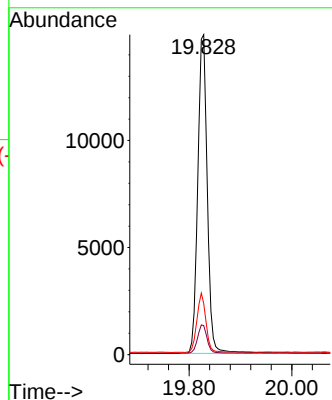
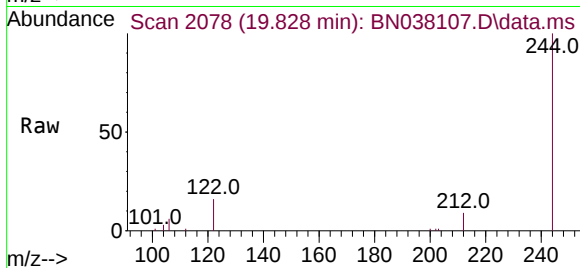




#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.828 min Scan# 2083
Delta R.T. -0.005 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

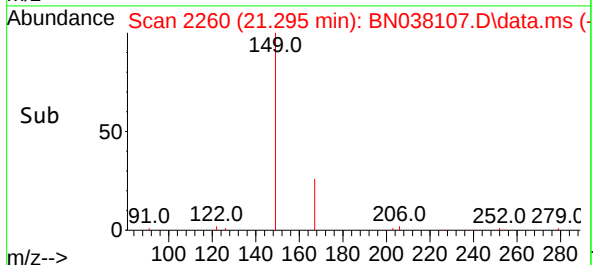
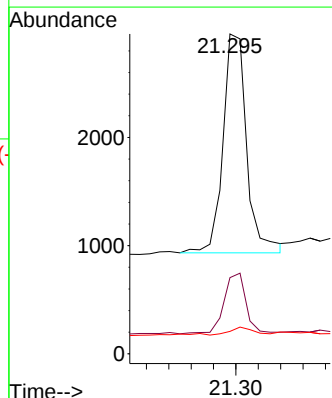
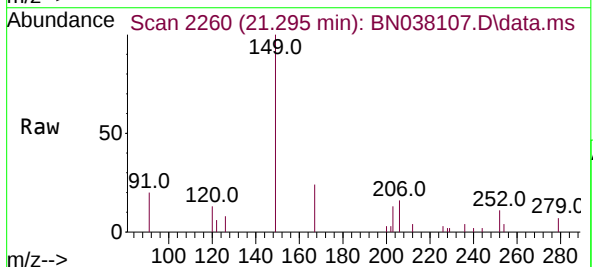
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-920-922

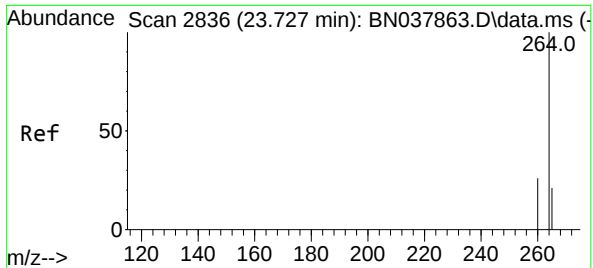
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.6	11.4
122	16.0	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.122 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.009 min
Lab File: BN038107.D
Acq: 20 Oct 2025 20:58

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.4	30.6
279	3.7	2.4	3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.692 min Scan# 2836

Delta R.T. -0.009 min

Lab File: BN038107.D

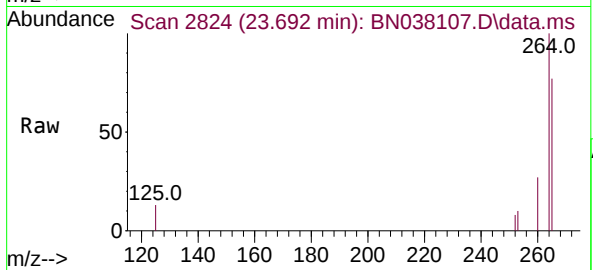
Acq: 20 Oct 2025 20:58

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-920-922



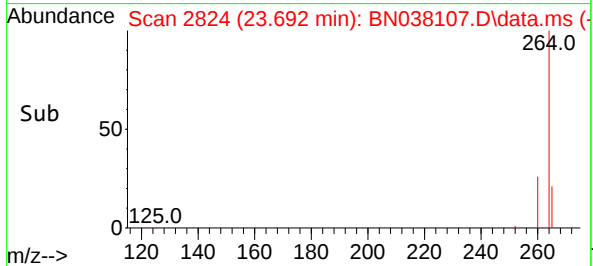
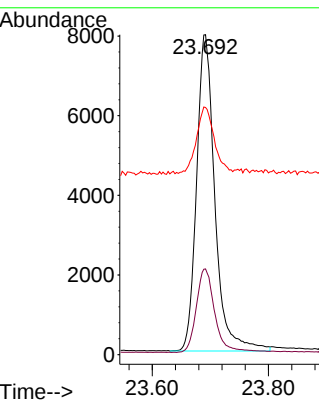
Tgt Ion:264 Resp: 17404

Ion Ratio Lower Upper

264 100

260 26.8 21.5 32.3

265 77.2 53.8 80.6



Report of Analysis

Client: Tetra Tech NUS, Inc.	Date Collected: 10/16/25	
Project: NWIRP Bethpage 112G08005-WE13	Date Received: 10/16/25	
Client Sample ID: VPB184-HYD-20251016	SDG No.: Q3371	
Lab Sample ID: Q3371-06	Matrix: Water	
Analytical Method: SW8270ESIM Level : LOW	% Solid: 0	
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method :	Prep Date: 10/20/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.070	J	1	0.070	0.20	0.20	ug/L	10/20/25 21:34	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.014	*		30 - 150		4%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.043	*		30 - 150		11%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.31			55 - 111		77%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.32			53 - 106		79%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.52			58 - 132		131%	SPK: 0.4		
INTERNAL STANDARDS		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	7490								
1146-65-2	Naphthalene-d8	19900								
15067-26-2	Acenaphthene-d10	10200								
1517-22-2	Phenanthrene-d10	19700								
1719-03-5	Chrysene-d12	16600								
1520-96-3	Perylene-d12	14800								

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\BN102025\
Data File : BN038108.D
Acq On : 20 Oct 2025 21:34
Operator : RC/JU
Sample : Q3371-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

Quant Time: Oct 21 02:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

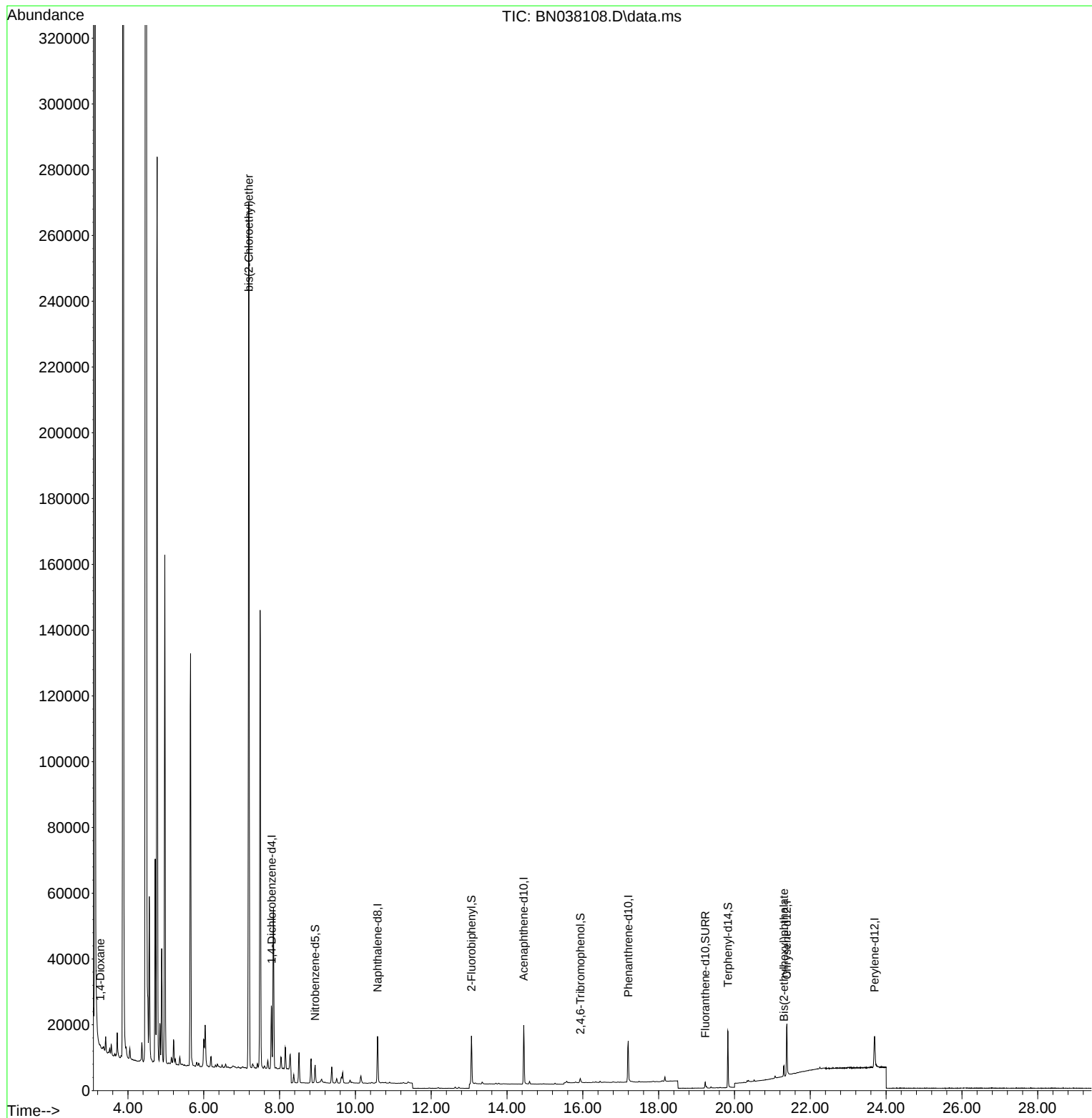
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	7491	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	19850	0.400	ng	# 0.00
13) Acenaphthene-d10	14.441	164	10193	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	19689	0.400	ng	0.00
29) Chrysene-d12	21.384	240	16604	0.400	ng	0.00
35) Perylene-d12	23.692	264	14840	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	13	0.001	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.939	82	4685	0.309	ng	0.00
11) 2-Methylnaphthalene-d10	12.182	152	375	0.014	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	705	0.182	ng	-0.01
15) 2-Fluorobiphenyl	13.062	172	13228	0.317	ng	0.00
27) Fluoranthene-d10	19.229	212	2137	0.043	ng	0.00
31) Terphenyl-d14	19.829	244	17304	0.523	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	562	0.074	ng	# 80
6) bis(2-Chloroethyl)ether	7.190	93	169353	8.122	ng	# 44
34) Bis(2-ethylhexyl)phtha...	21.304	149	3417	0.149	ng	# 99

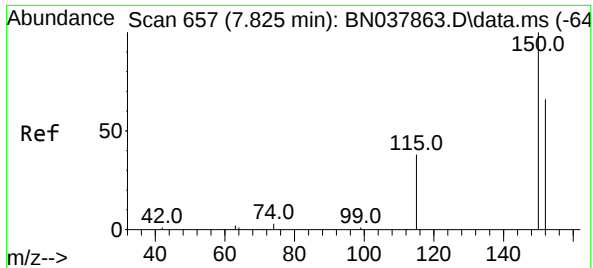
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038108.D
Acq On : 20 Oct 2025 21:34
Operator : RC/JU
Sample : Q3371-06
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

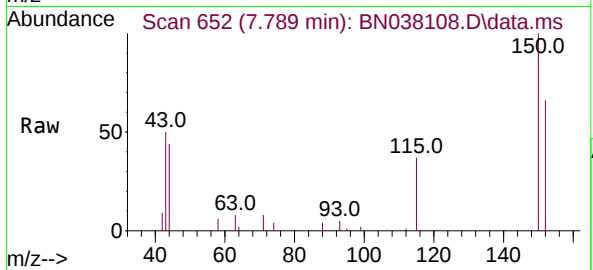
Quant Time: Oct 21 02:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



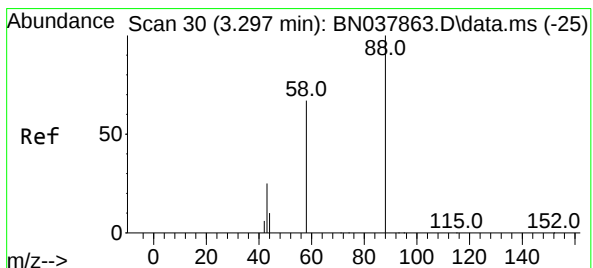
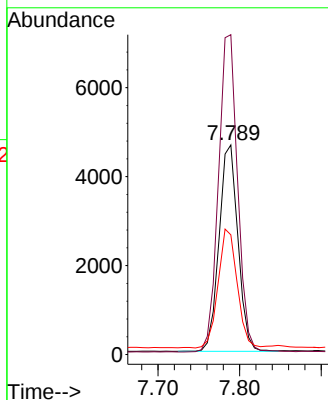
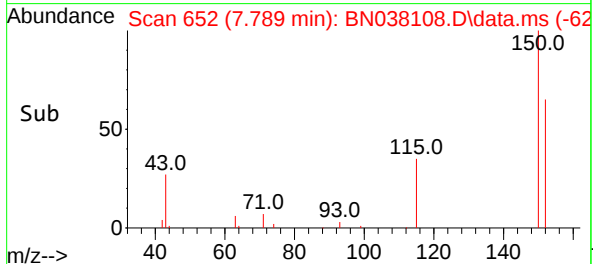


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

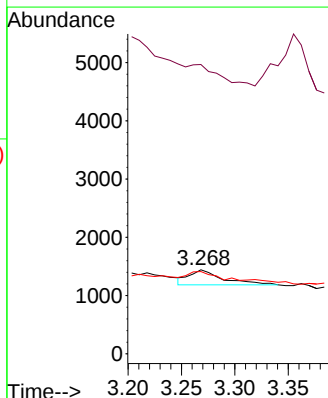
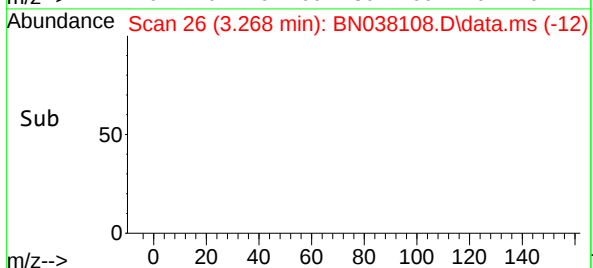
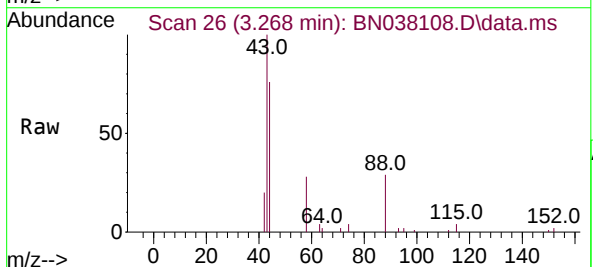


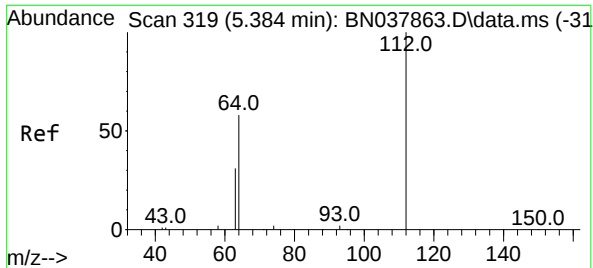
Tgt Ion:152 Resp: 7491
Ion Ratio Lower Upper
152 100
150 152.6 121.0 181.4
115 57.1 47.4 71.0



#2
1,4-Dioxane
Concen: 0.074 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion: 88 Resp: 562
Ion Ratio Lower Upper
88 100
43 0.0 26.6 39.8#
58 75.3 58.9 88.3

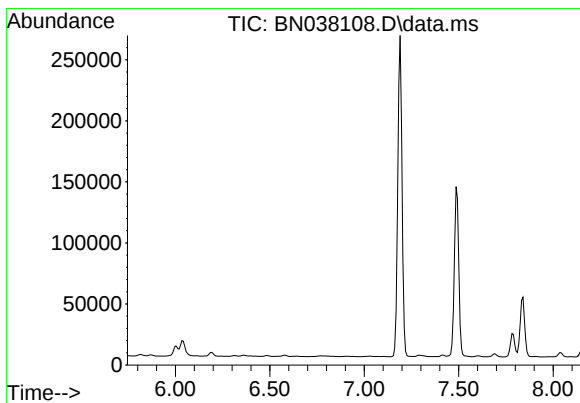
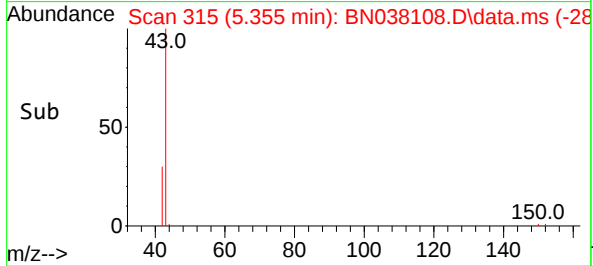
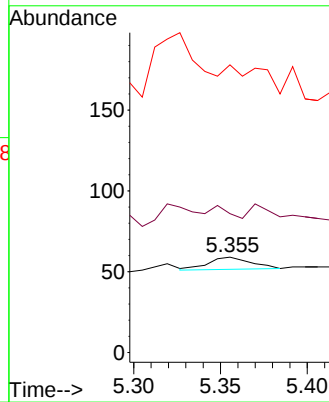
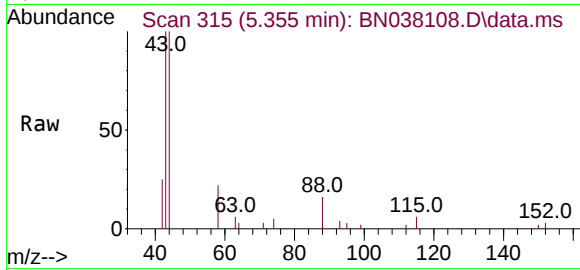




#4
2-Fluorophenol
Concen: 0.001 ng
RT: 5.355 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

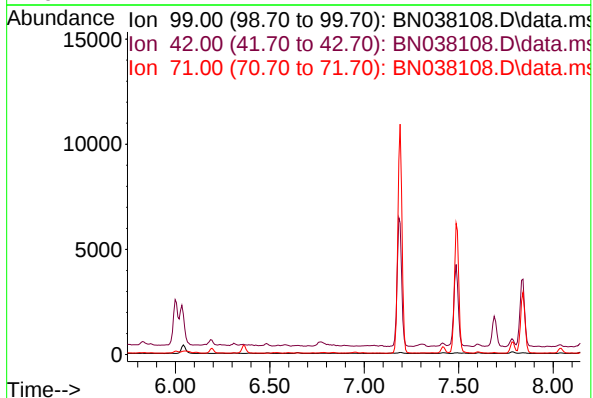
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

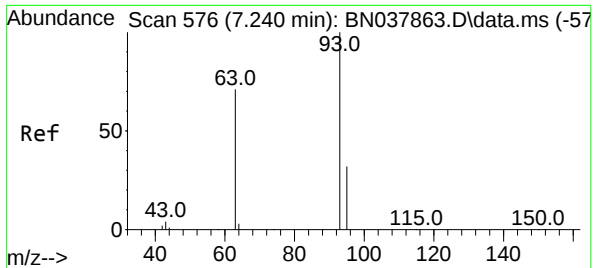
Tgt Ion:112 Resp: 13
Ion Ratio Lower Upper
112 100
64 100.0 44.6 66.8#
63 0.0 24.9 37.3#



#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.94 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion: 99
Sig Exp Ratio
99 100
42 21.5
71 34.1

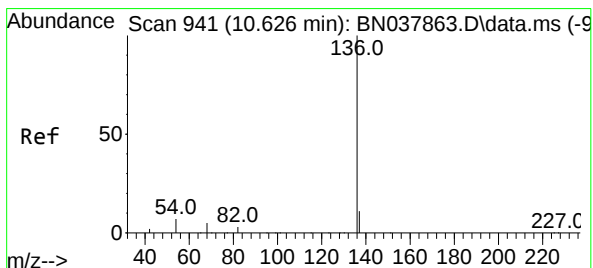
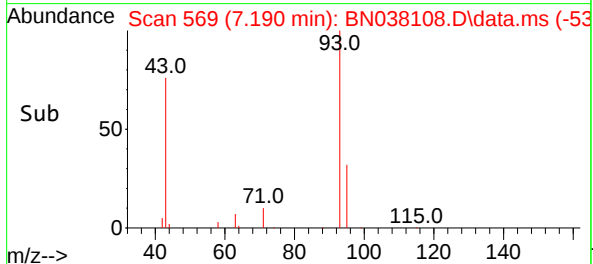
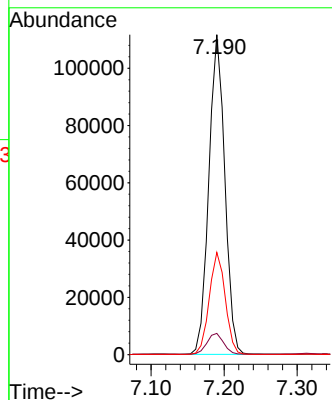
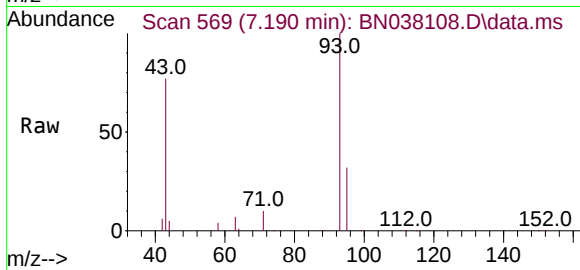




#6
bis(2-Chloroethyl)ether
Concen: 8.122 ng
RT: 7.190 min Scan# 50
Delta R.T. -0.015 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

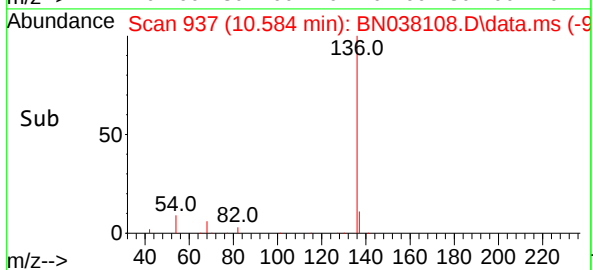
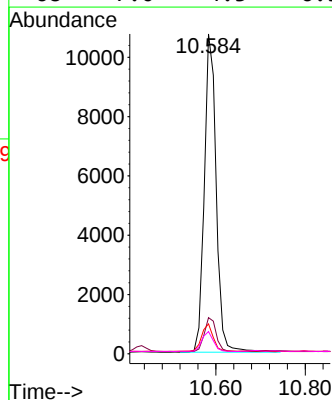
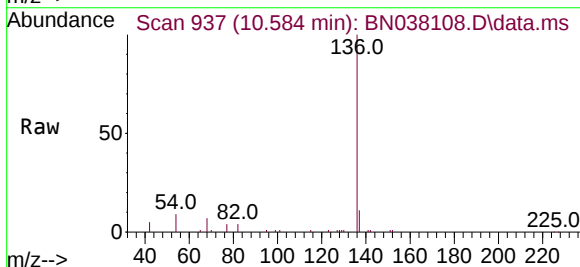
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

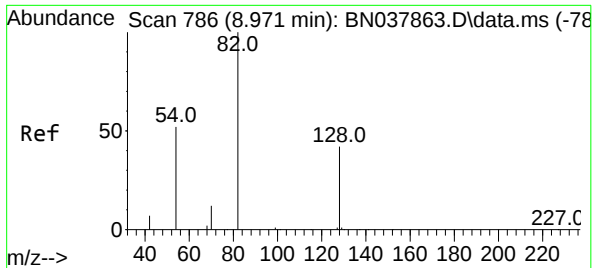
Tgt Ion: 93 Resp: 169353
Ion Ratio Lower Upper
93 100
63 6.7 60.1 90.1#
95 31.9 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion: 136 Resp: 19850
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.4
54 9.4 5.8 8.8#
68 7.0 4.3 6.5#

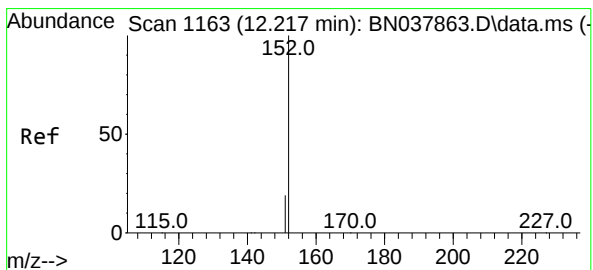
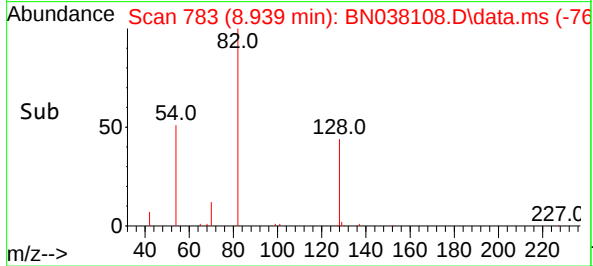
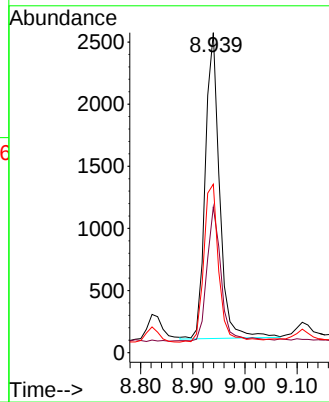
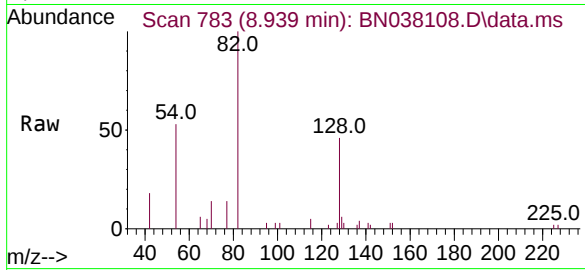




#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.939 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

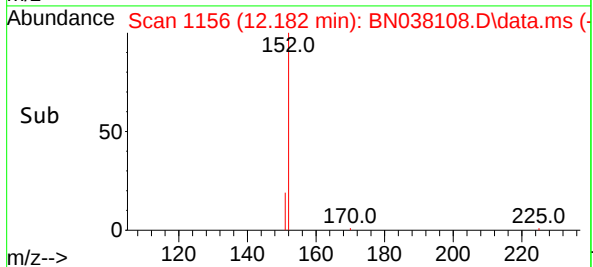
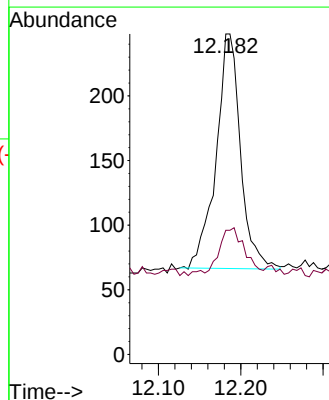
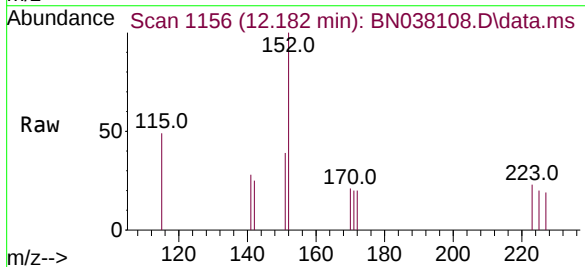
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

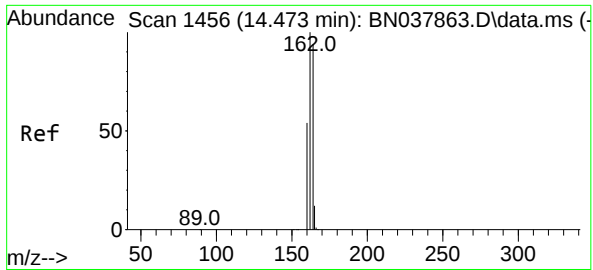
Tgt Ion:	82	Resp:	4685
Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.8	52.2
54	52.6	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.014 ng
RT: 12.182 min Scan# 1156
Delta R.T. -0.005 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion:	152	Resp:	375
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.4	26.2

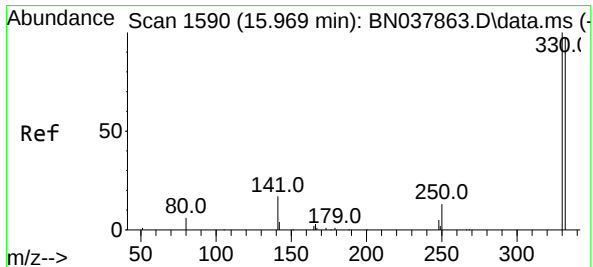
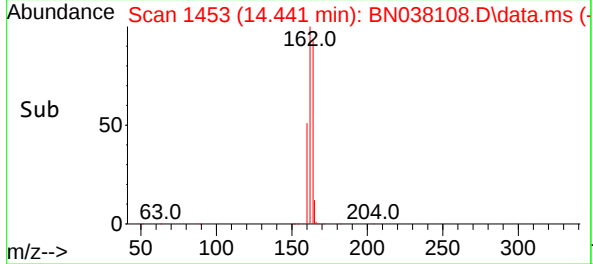
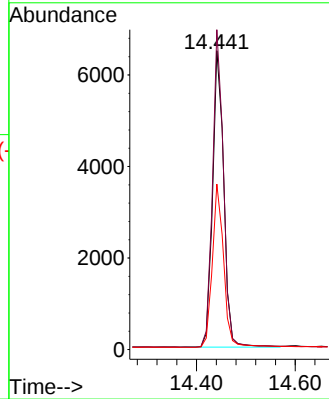
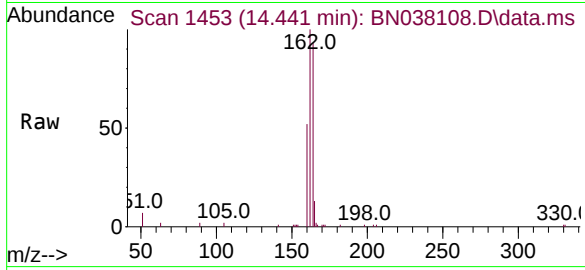




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

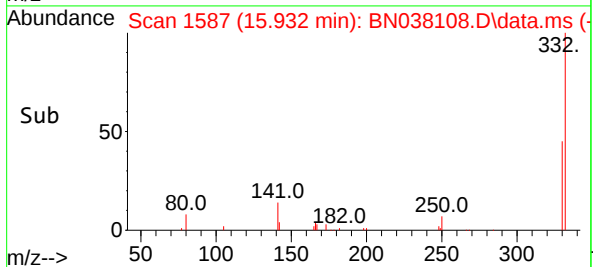
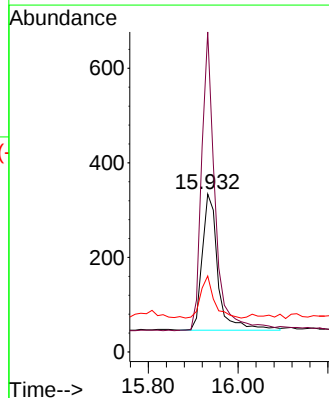
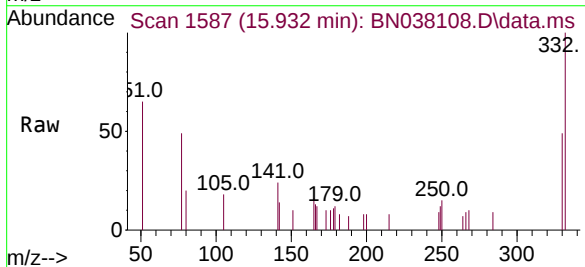
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

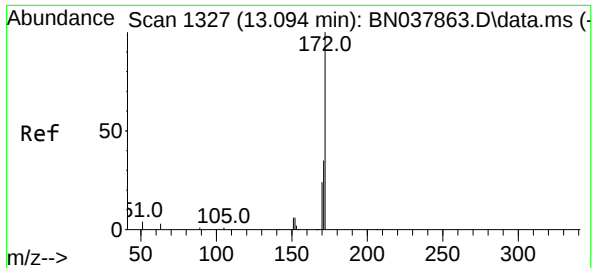
Tgt Ion:164 Resp: 10193
Ion Ratio Lower Upper
164 100
162 107.1 84.8 127.2
160 55.4 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.182 ng
RT: 15.932 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion:330 Resp: 705
Ion Ratio Lower Upper
330 100
332 188.1 77.2 115.8#
141 25.8 37.2 55.8#

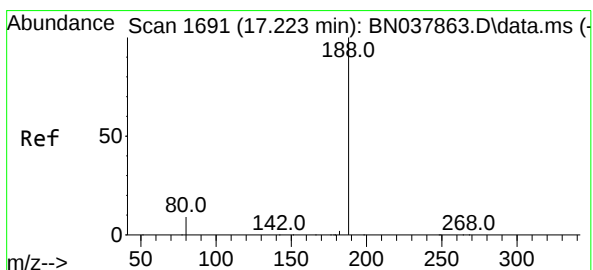
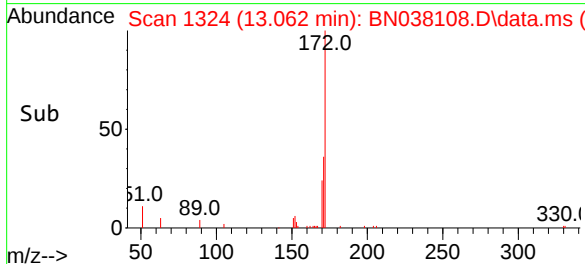
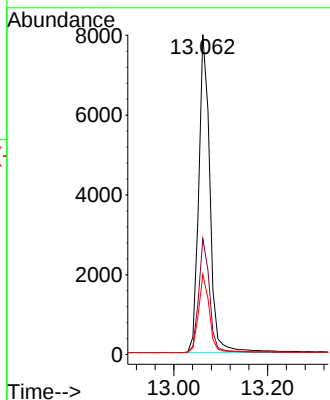
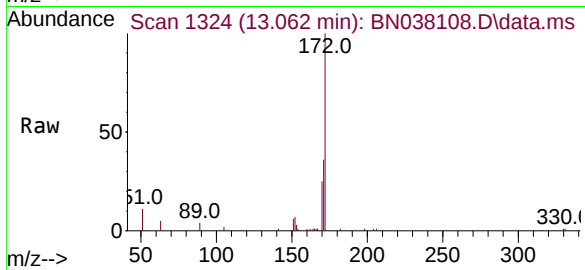




#15
2-Fluorobiphenyl
Concen: 0.317 ng
RT: 13.062 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

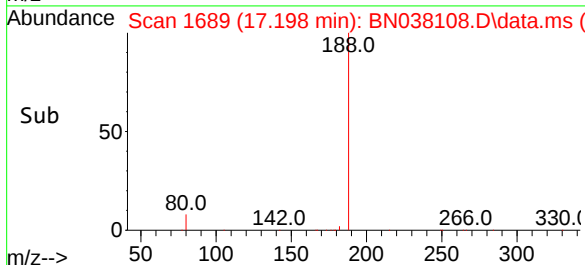
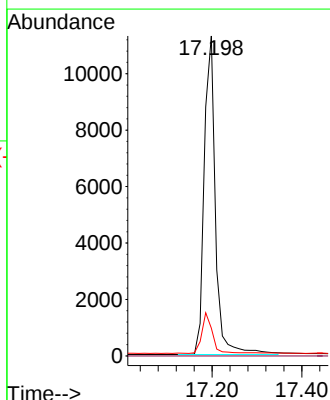
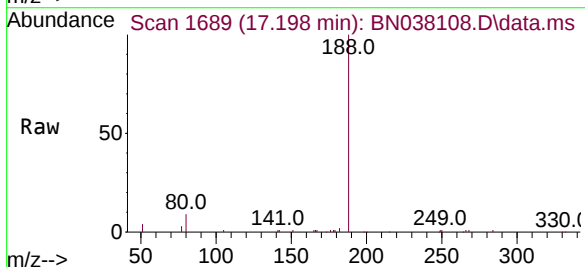
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

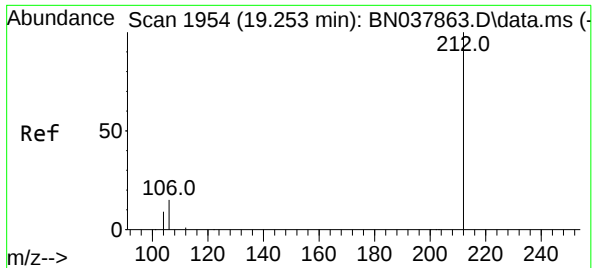
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	25.0	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

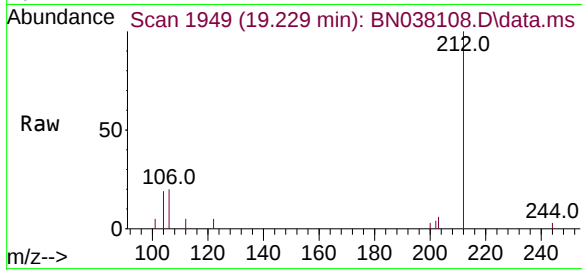
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	7.6	11.4



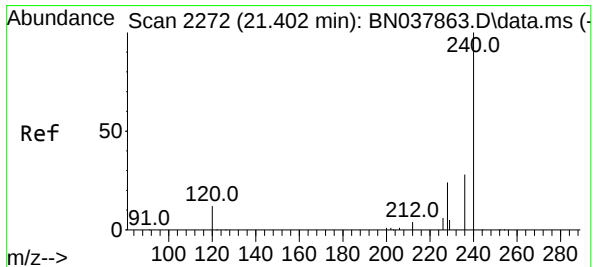
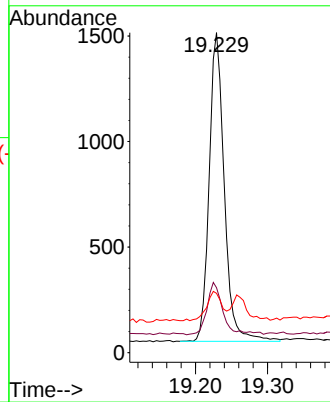
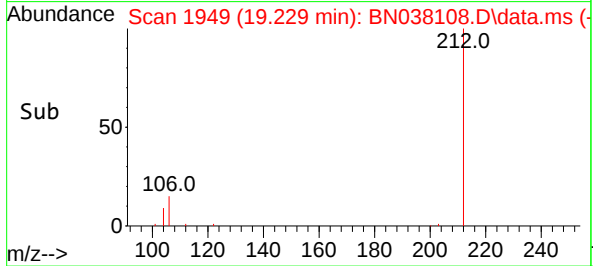


#27
Fluoranthene-d10
Concen: 0.043 ng
RT: 19.229 min Scan# 1949
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

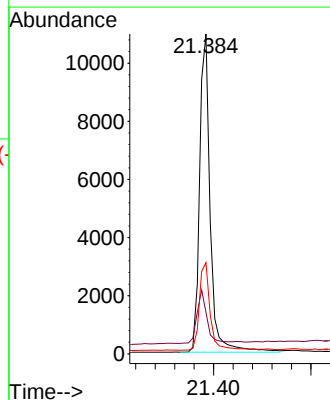
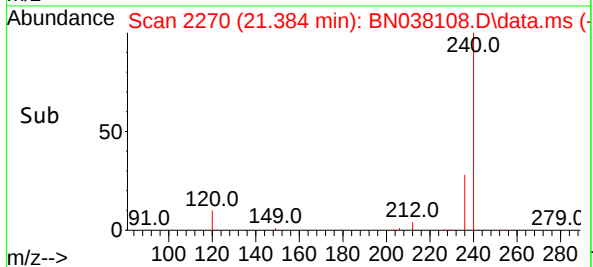
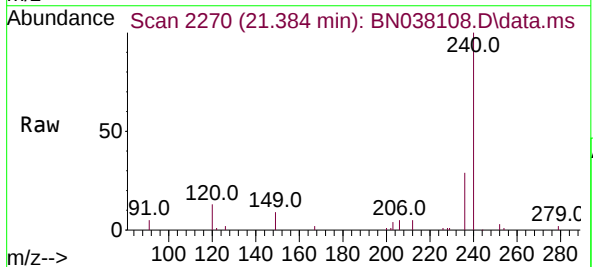


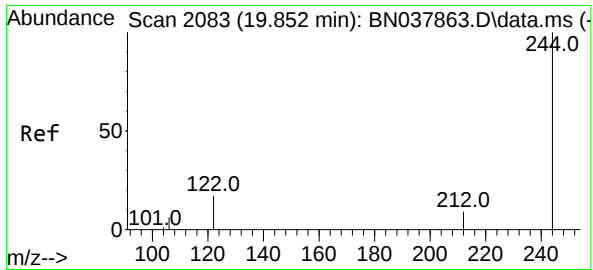
Tgt Ion:212 Resp: 2137
Ion Ratio Lower Upper
212 100
106 17.3 12.6 19.0
104 9.3 7.4 11.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion:240 Resp: 16604
Ion Ratio Lower Upper
240 100
120 13.0 11.4 17.2
236 28.6 23.0 34.6

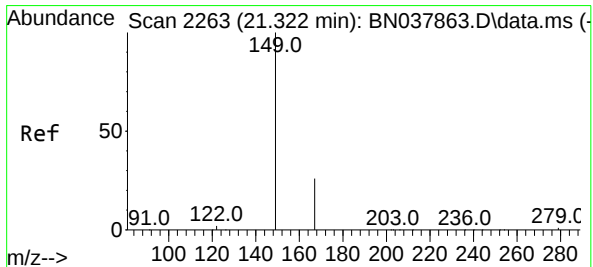
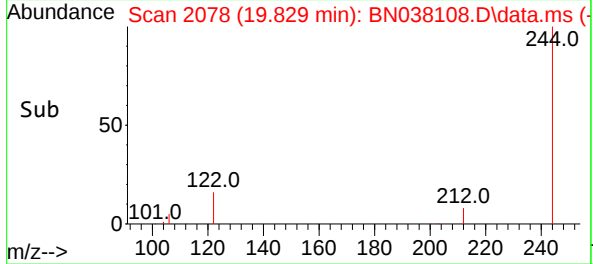
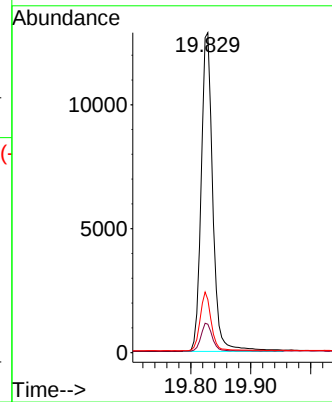
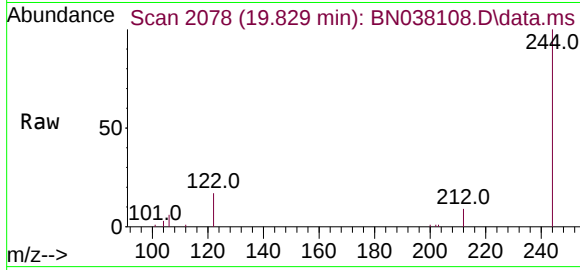




#31
Terphenyl-d14
Concen: 0.523 ng
RT: 19.829 min Scan# 2083
Delta R.T. -0.005 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

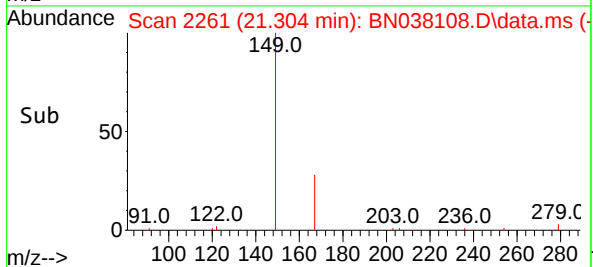
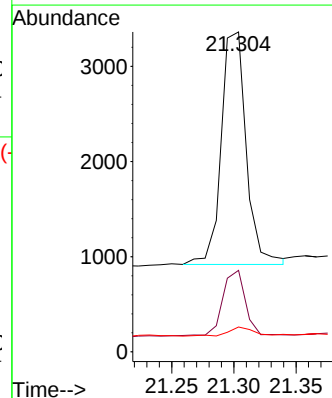
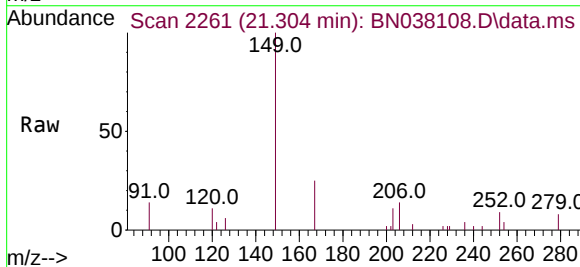
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20251016

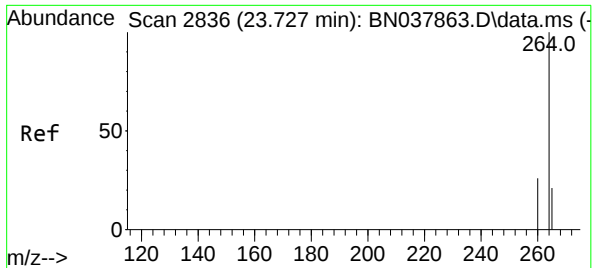
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.6	11.4
122	16.6	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.149 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.000 min
Lab File: BN038108.D
Acq: 20 Oct 2025 21:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.4	30.6
279	4.0	2.4	3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.692 min Scan# 2836

Delta R.T. -0.009 min

Lab File: BN038108.D

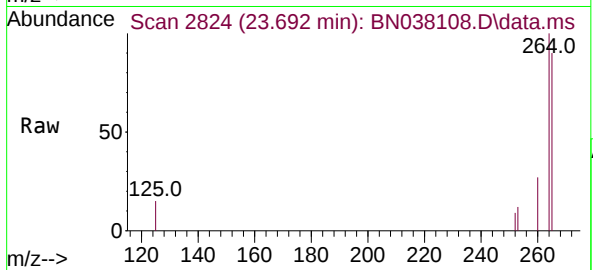
Acq: 20 Oct 2025 21:34

Instrument :

BNA_N

ClientSampleId :

VPB184-HYD-20251016



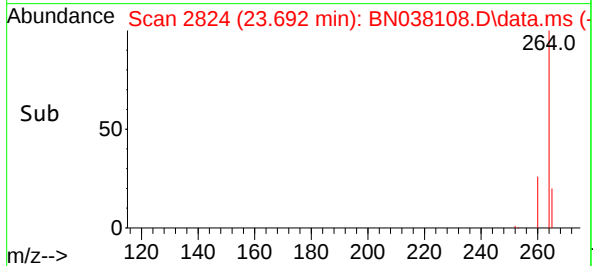
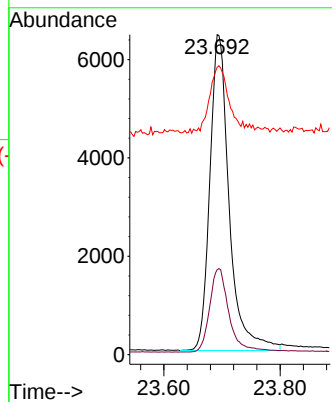
Tgt Ion:264 Resp: 14840

Ion Ratio Lower Upper

264 100

260 26.5 21.5 32.3

265 89.8 53.8 80.6#





CALIBRATION SUMMARY

1
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.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	0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.15	
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136	0.108	16.50		
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037861.D
 Acq On : 23 Sep 2025 12:13
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

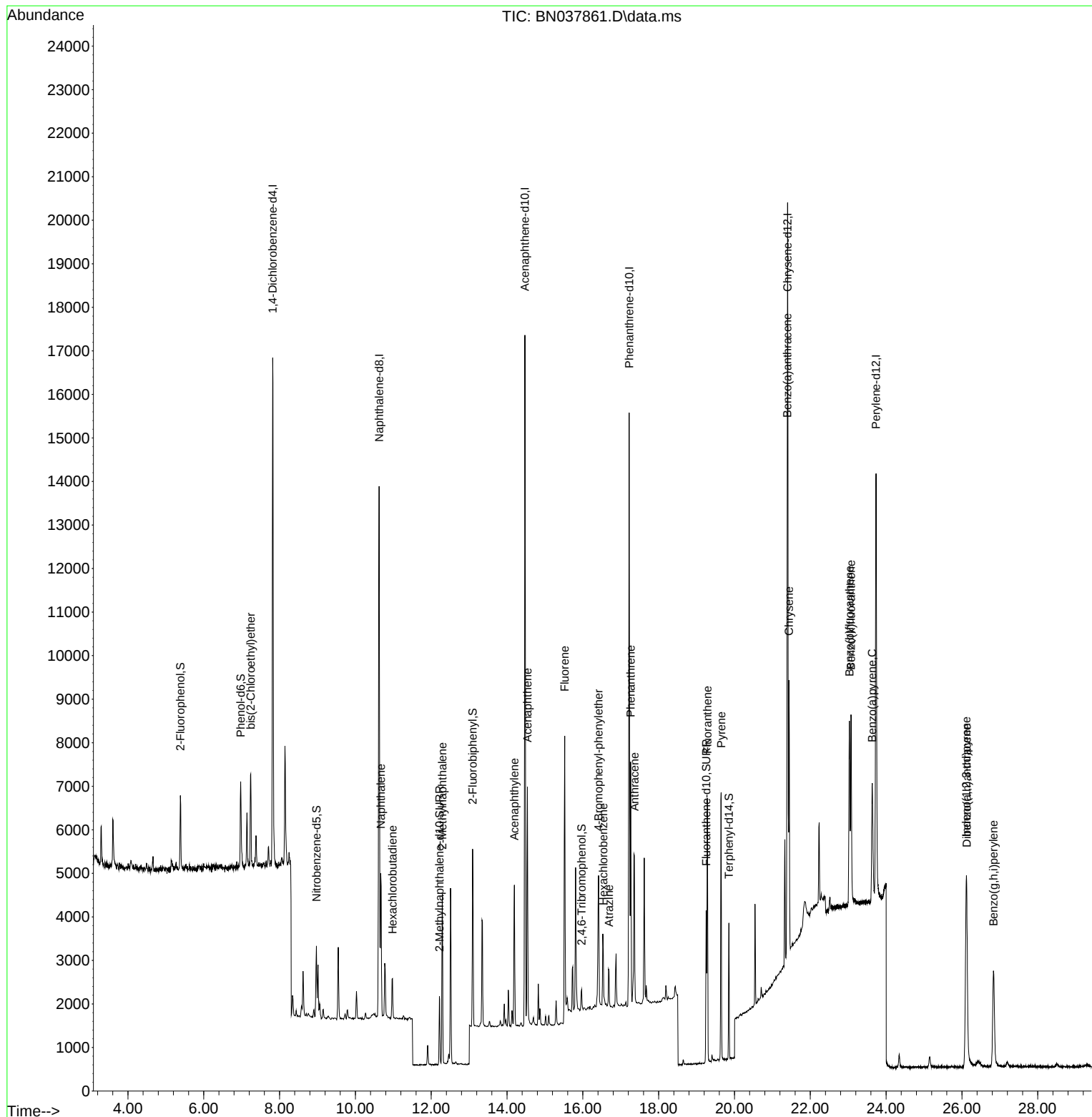
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13854	0.400	ng	0.00
35) Perylene-d12	23.736	264	13928	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	1382	0.103	ng	0.00
5) Phenol-d6	6.973	99	1742	0.099	ng	0.00
8) Nitrobenzene-d5	8.971	82	1212	0.098	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	2089	0.093	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	309	0.091	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	3478	0.101	ng	0.00
27) Fluoranthene-d10	19.253	212	3783	0.087	ng	0.00
31) Terphenyl-d14	19.852	244	2766	0.100	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.240	93	1658	0.102	ng	99
9) Naphthalene	10.669	128	4483	0.100	ng	96
10) Hexachlorobutadiene	10.979	225	802	0.105	ng	# 96
12) 2-Methylnaphthalene	12.293	142	2749	0.094	ng	98
16) Acenaphthylene	14.195	152	3557	0.093	ng	98
17) Acenaphthene	14.537	154	2644	0.098	ng	99
18) Fluorene	15.523	166	3048	0.093	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	1084	0.097	ng	96
22) Hexachlorobenzene	16.540	284	1361	0.100	ng	99
23) Atrazine	16.689	200	772	0.090	ng	# 95
25) Phenanthrene	17.260	178	5595	0.099	ng	99
26) Anthracene	17.360	178	4446	0.091	ng	99
28) Fluoranthene	19.285	202	5493	0.088	ng	99
30) Pyrene	19.647	202	5458	0.100	ng	99
32) Benzo(a)anthracene	21.393	228	4766	0.098	ng	99
33) Chrysene	21.438	228	5223	0.100	ng	99
36) Indeno(1,2,3-cd)pyrene	26.113	276	5972	0.094	ng	98
37) Benzo(b)fluoranthene	23.031	252	5567	0.093	ng	# 78
38) Benzo(k)fluoranthene	23.075	252	5642	0.093	ng	# 80
39) Benzo(a)pyrene	23.630	252	4368	0.092	ng	# 71
40) Dibenzo(a,h)anthracene	26.127	278	4476	0.090	ng	# 85
41) Benzo(g,h,i)perylene	26.832	276	4900	0.094	ng	93

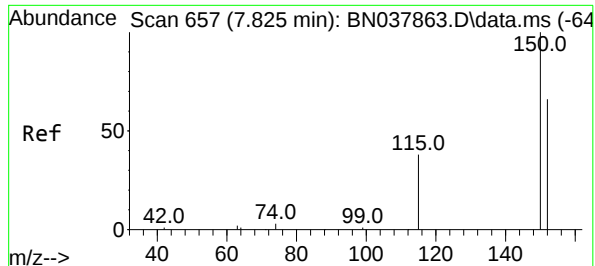
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Acq On : 23 Sep 2025 12:13
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

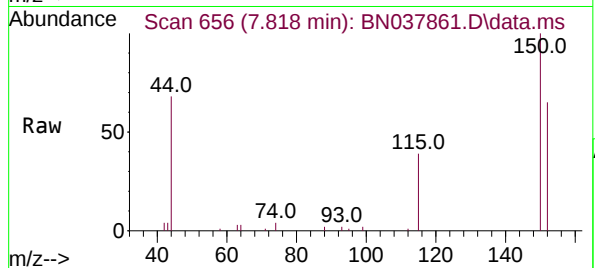
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



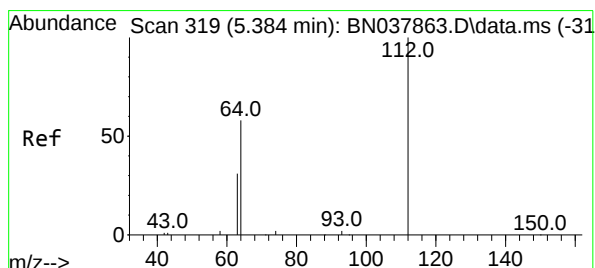
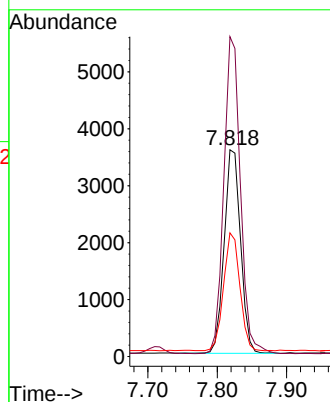
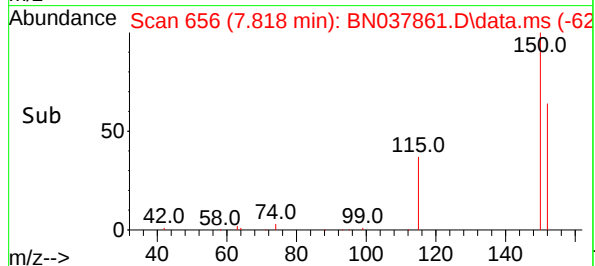


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

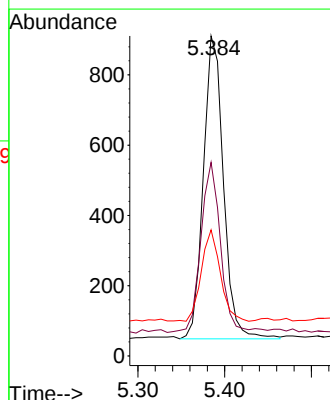
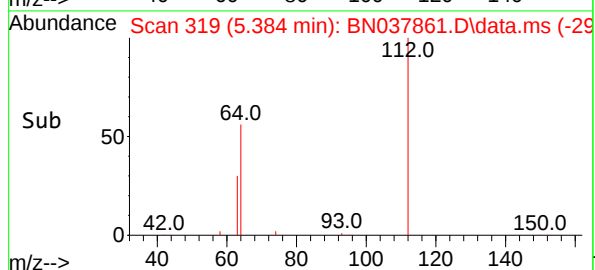
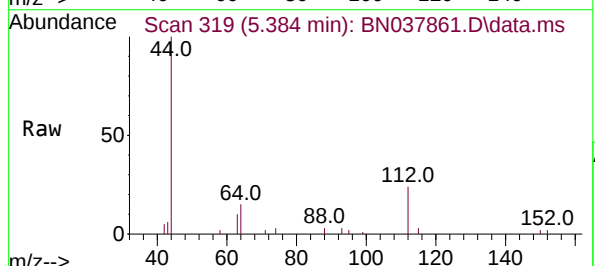


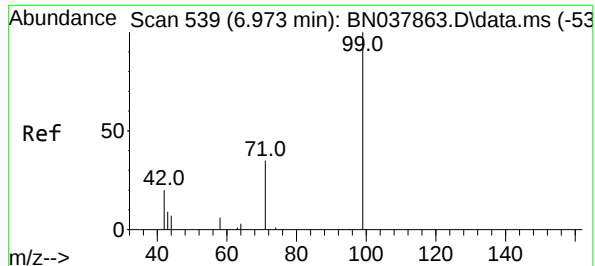
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 59.9 47.4 71.0



#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:112 Resp: 1382
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 28.7 24.9 37.3

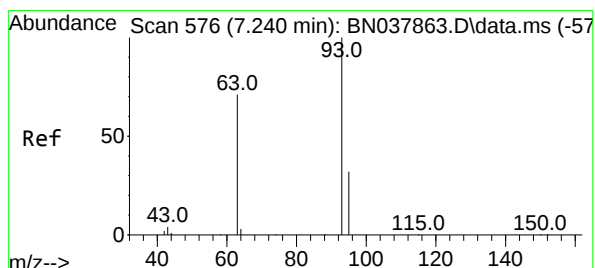
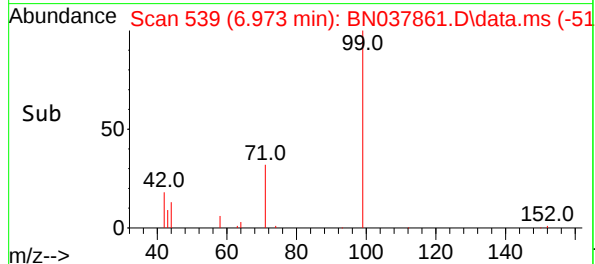
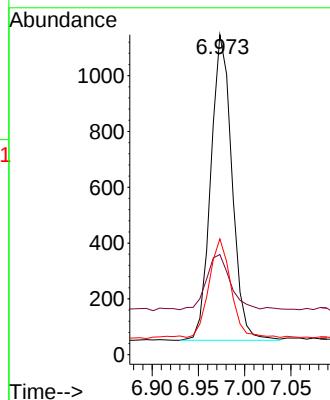
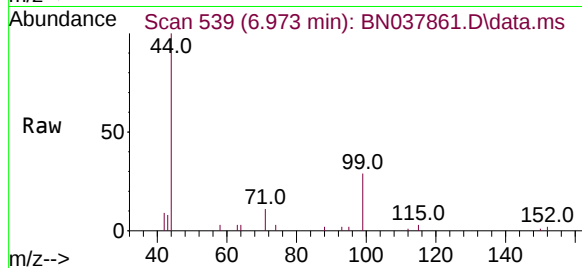




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

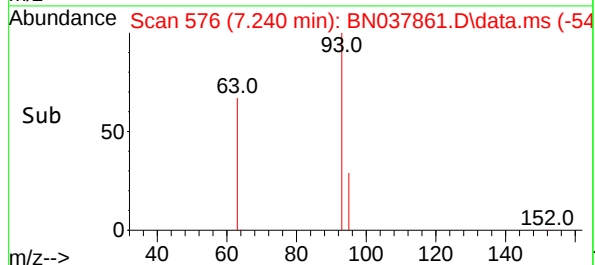
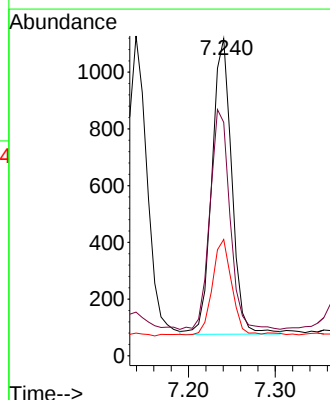
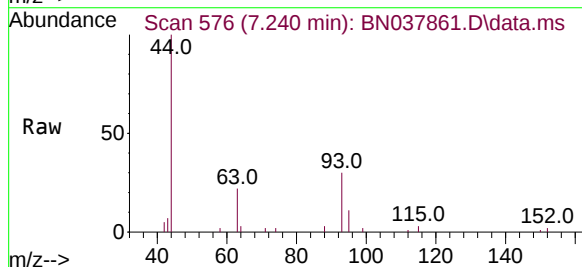
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

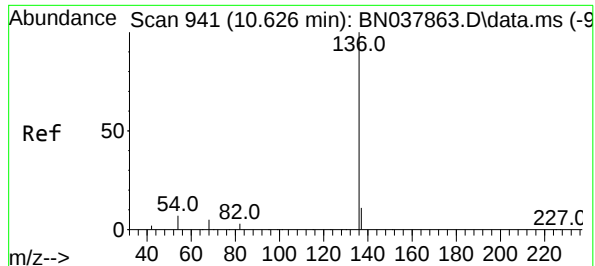
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.1	90.1
95	31.0	25.4	38.2

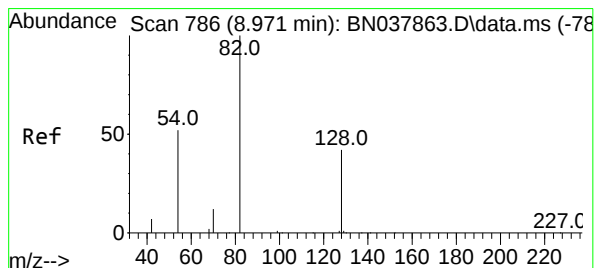
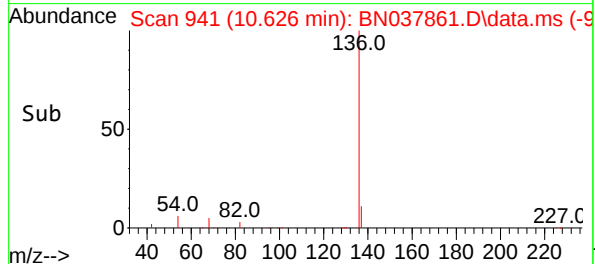
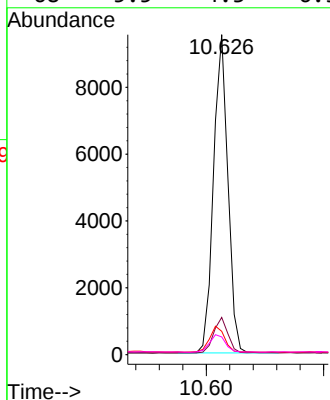
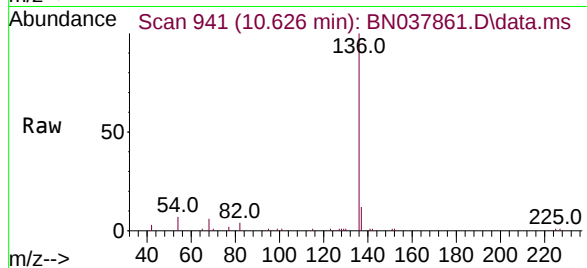




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

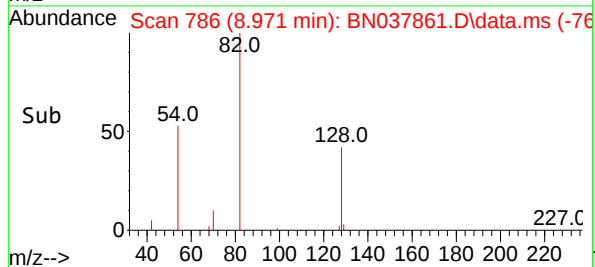
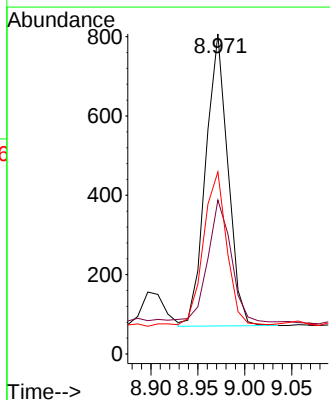
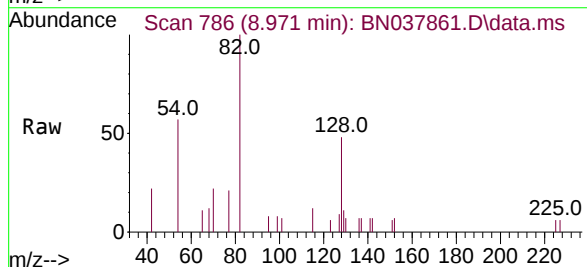
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

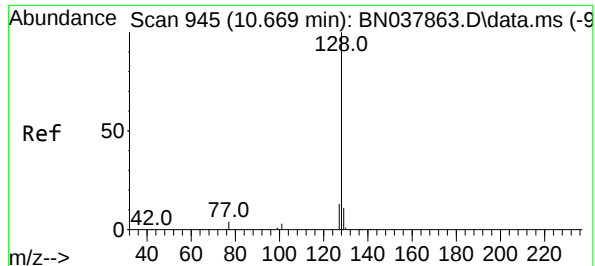
Tgt Ion:	136	Resp:	16223
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	82	Resp:	1212
Ion	Ratio	Lower	Upper
82	100		
128	48.1	34.8	52.2
54	56.9	42.2	63.2





#9

Naphthalene

Concen: 0.100 ng

RT: 10.669 min Scan# 945

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

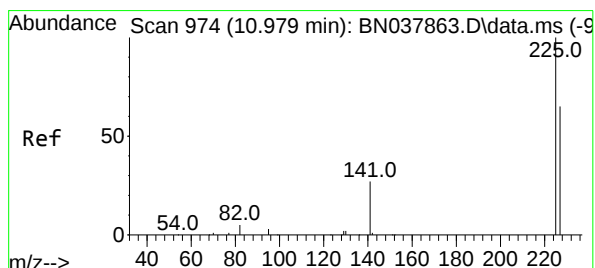
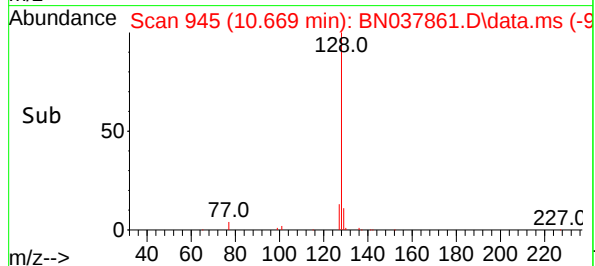
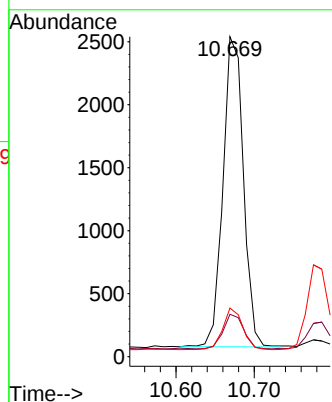
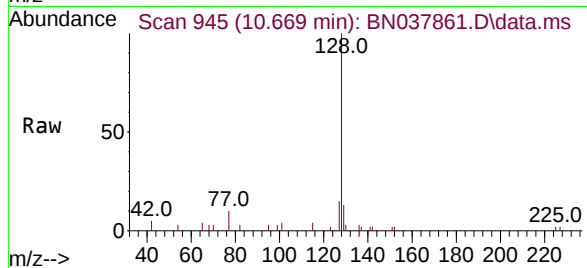
Tgt Ion:128 Resp: 4483

Ion Ratio Lower Upper

128 100

129 13.2 9.2 13.8

127 15.2 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.105 ng

RT: 10.979 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

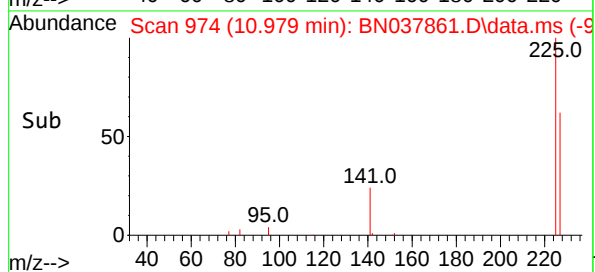
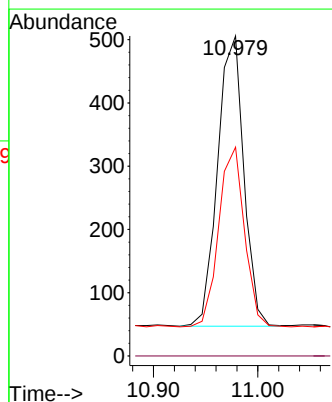
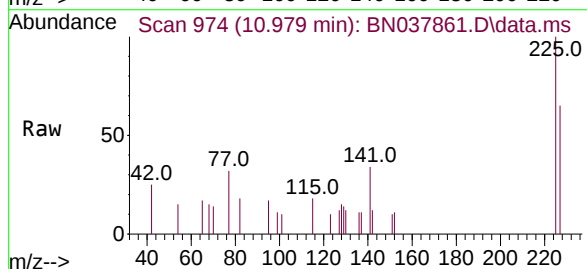
Tgt Ion:225 Resp: 802

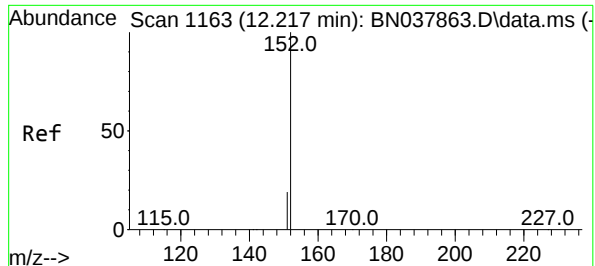
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 60.8 51.4 77.2

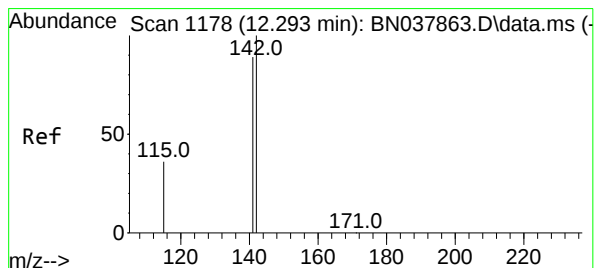
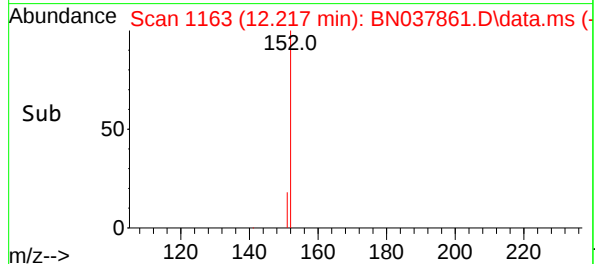
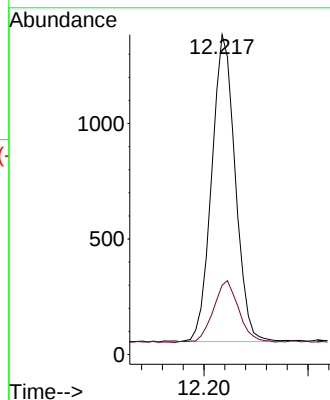
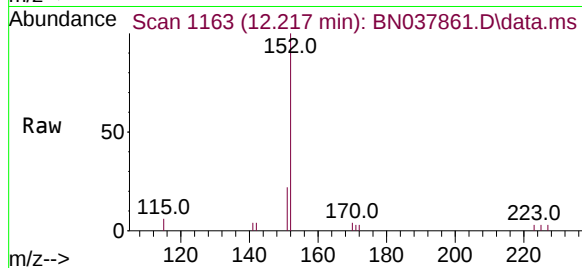




#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

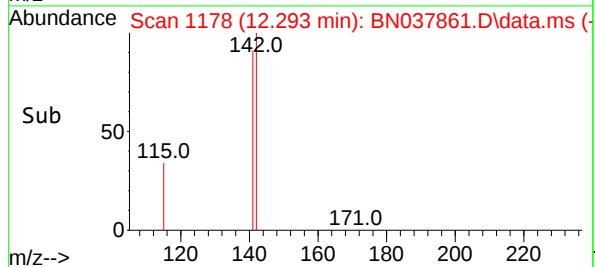
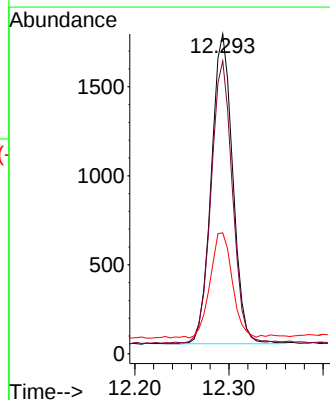
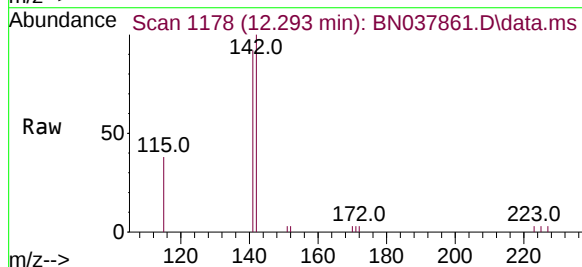
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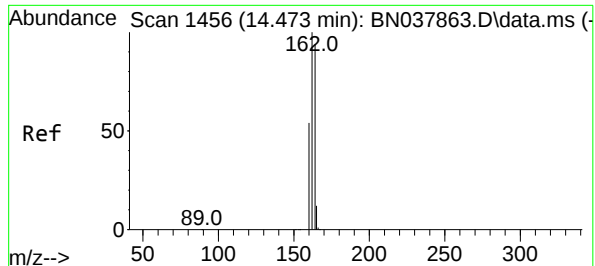
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:142 Resp: 2749
Ion Ratio Lower Upper
142 100
141 91.5 71.2 106.8
115 37.8 29.7 44.5

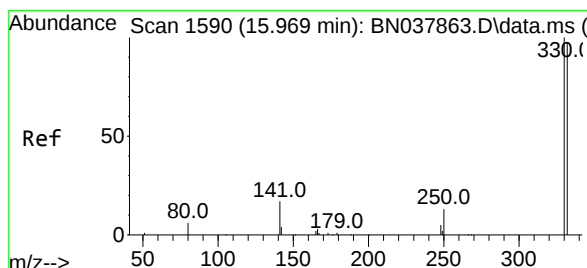
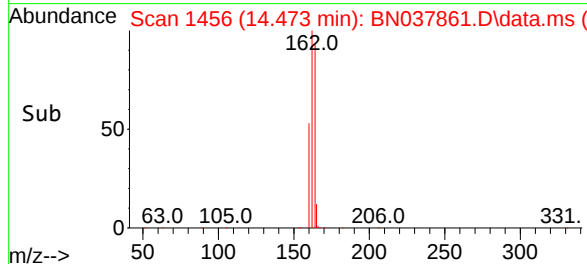
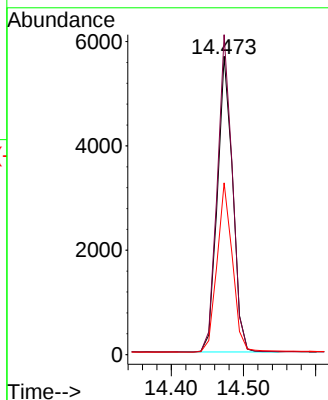
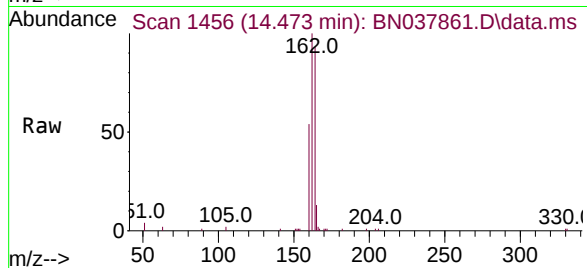




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

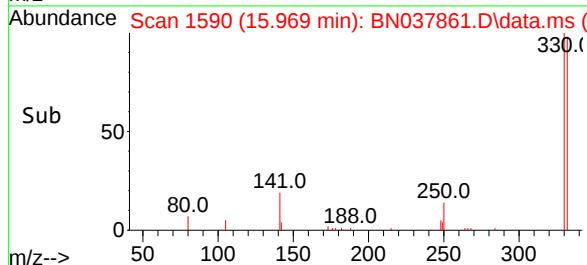
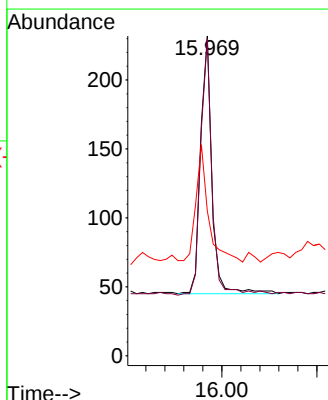
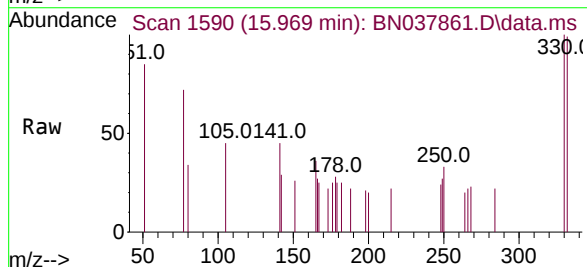
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SSTDICC0.1

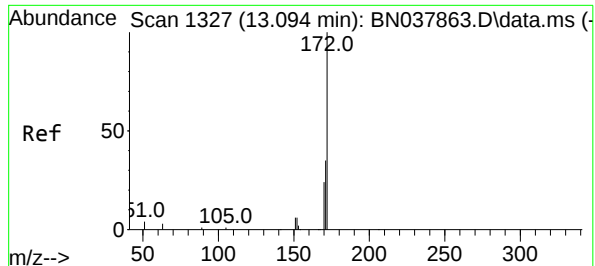
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.3	84.8	127.2
160	57.6	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.091 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.3	77.2	115.8
141	50.8	37.2	55.8

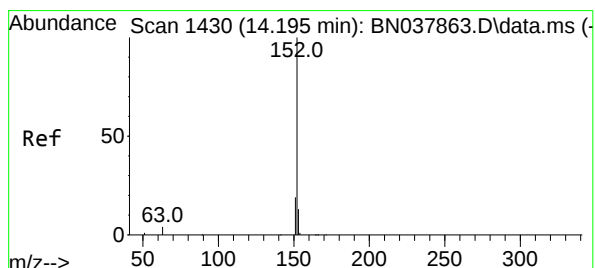
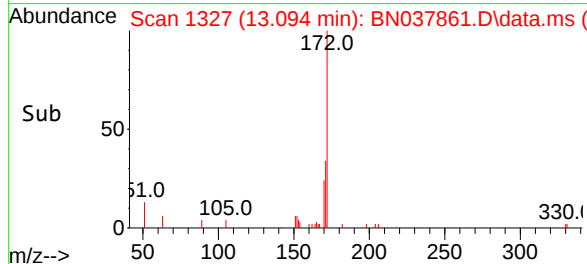
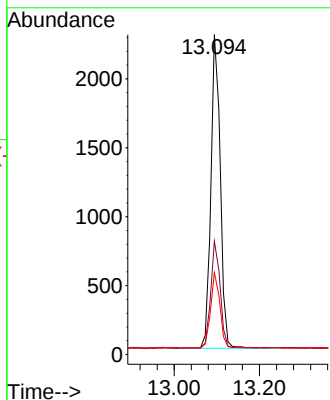
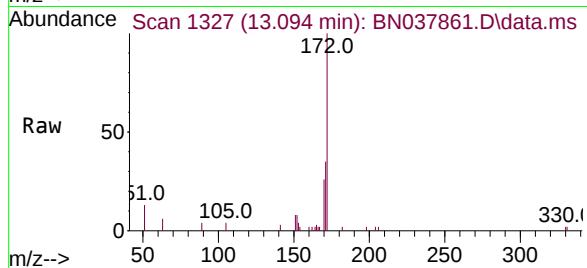




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

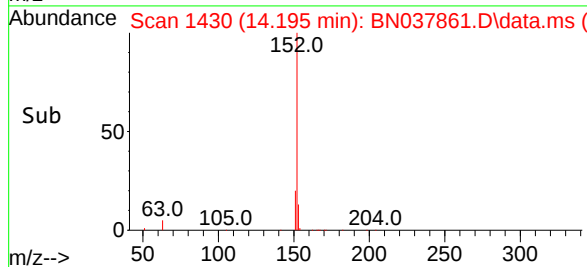
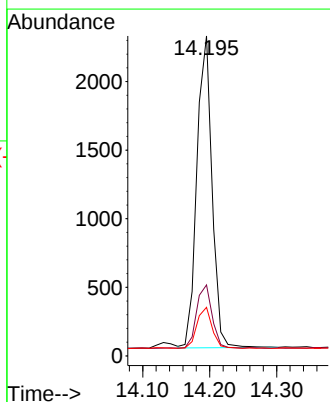
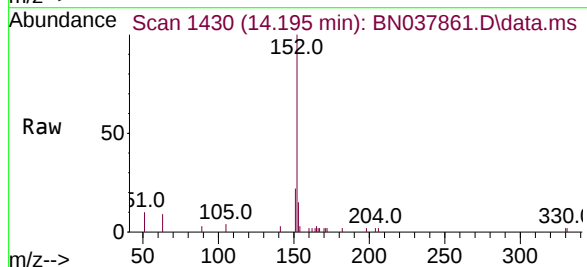
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

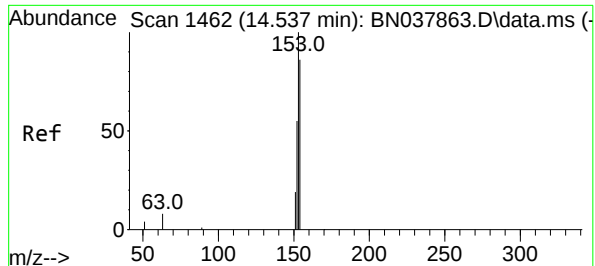
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	25.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.093 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.8	23.8
153	13.2	10.5	15.7





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

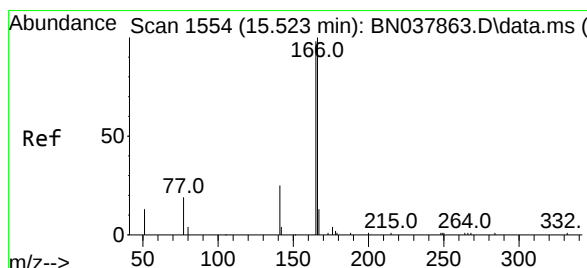
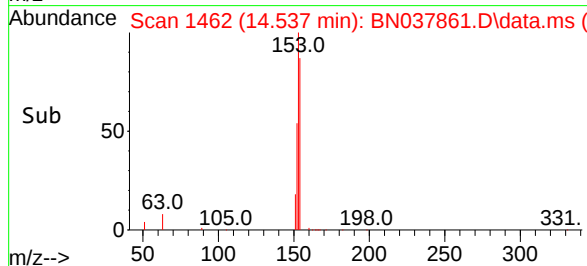
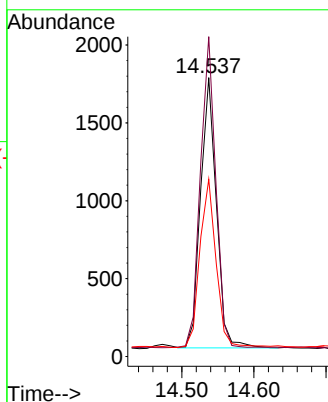
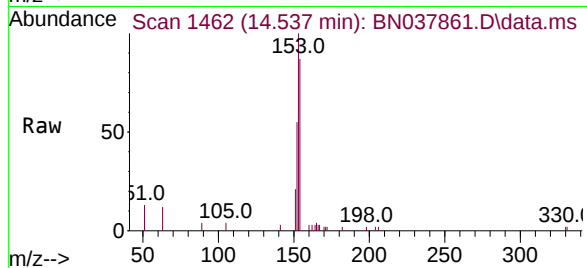
Tgt Ion:154 Resp: 2644

Ion Ratio Lower Upper

154 100

153 111.7 90.5 135.7

152 64.5 51.8 77.8



#18

Fluorene

Concen: 0.093 ng

RT: 15.523 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

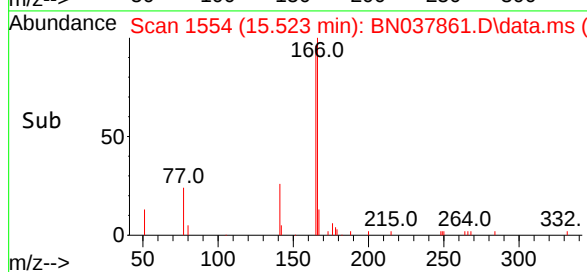
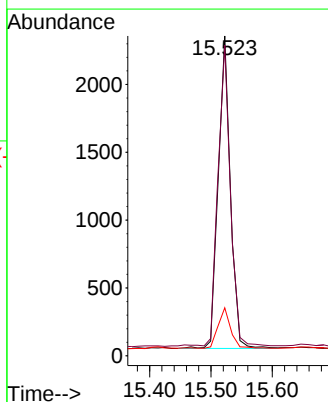
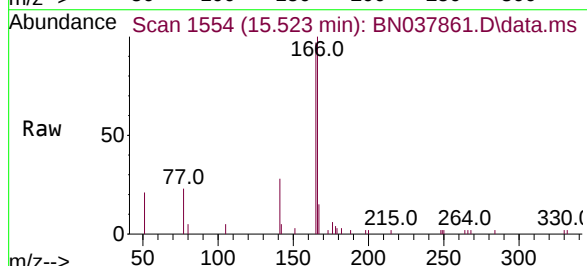
Tgt Ion:166 Resp: 3048

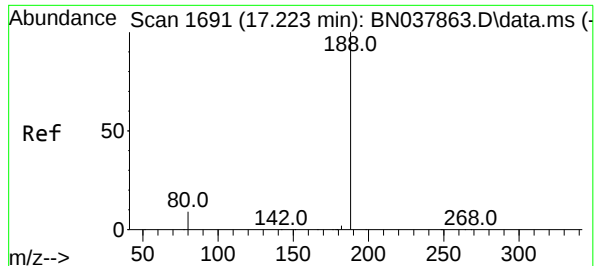
Ion Ratio Lower Upper

166 100

165 100.0 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

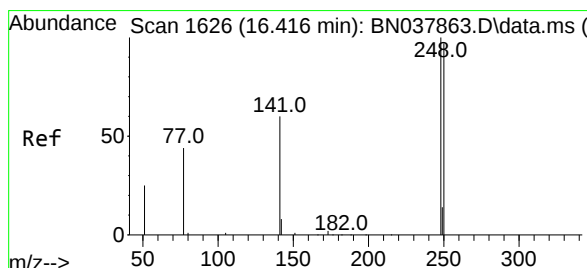
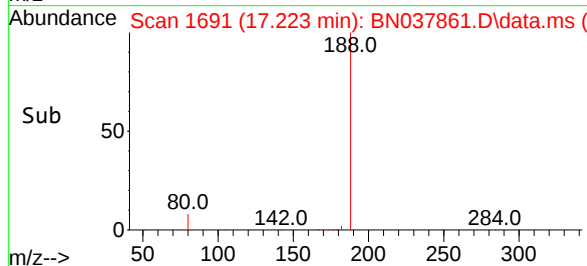
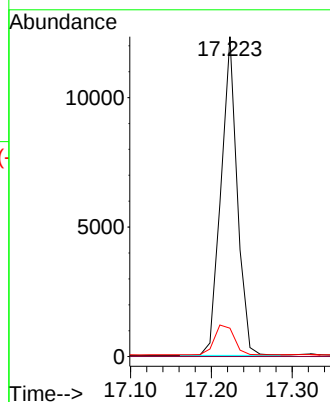
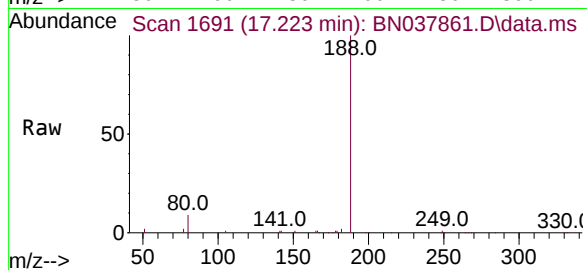
Tgt Ion:188 Resp: 17197

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.6 11.4



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

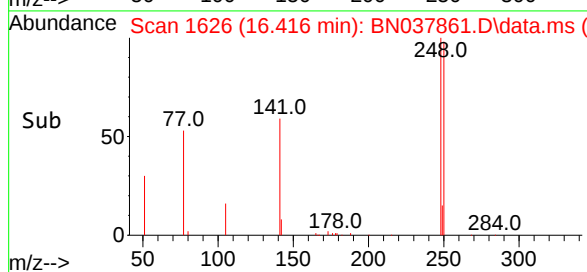
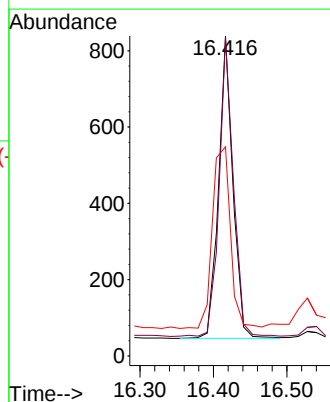
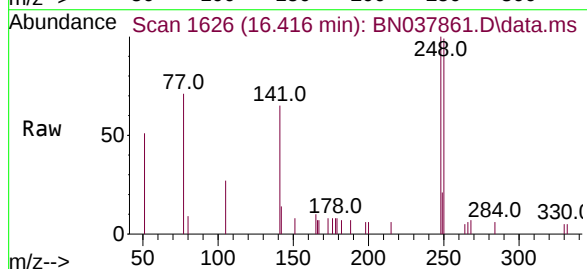
Tgt Ion:248 Resp: 1084

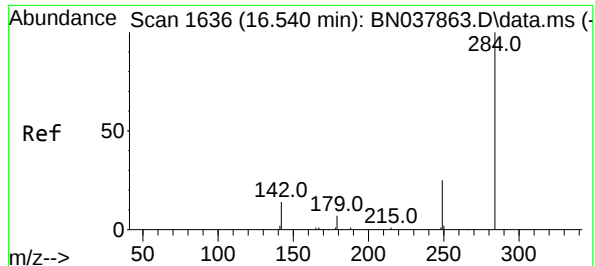
Ion Ratio Lower Upper

248 100

250 99.3 77.6 116.4

141 65.3 48.8 73.2





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

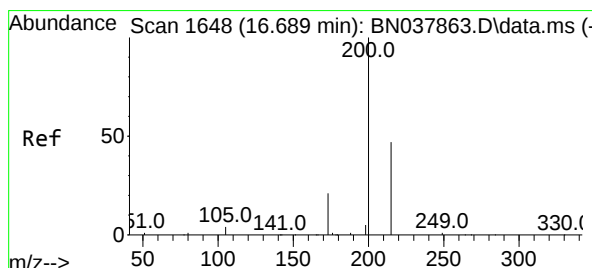
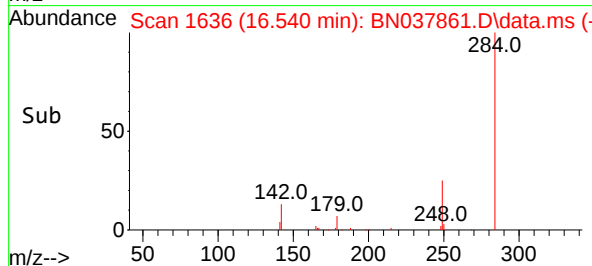
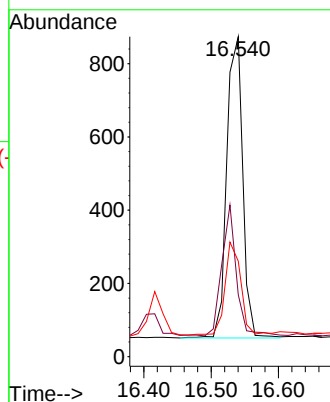
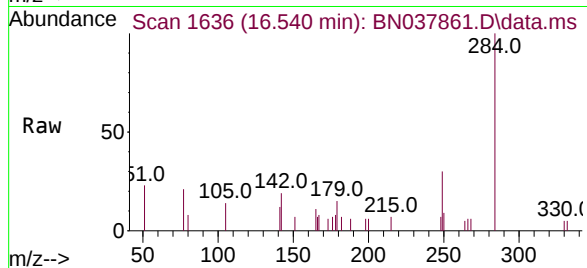
Tgt Ion:284 Resp: 1361

Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.6 23.9 35.9



#23

Atrazine

Concen: 0.090 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

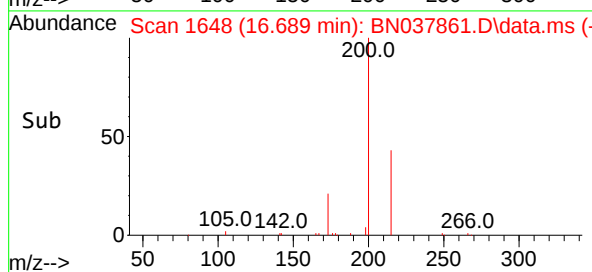
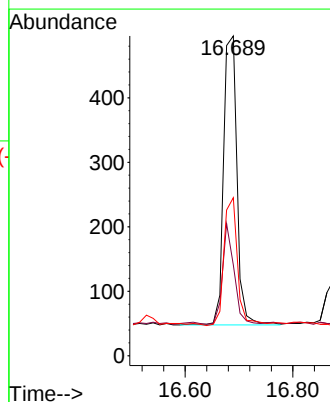
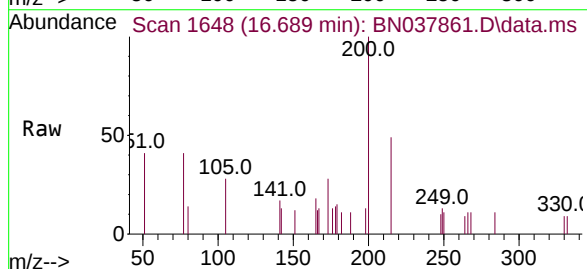
Tgt Ion:200 Resp: 772

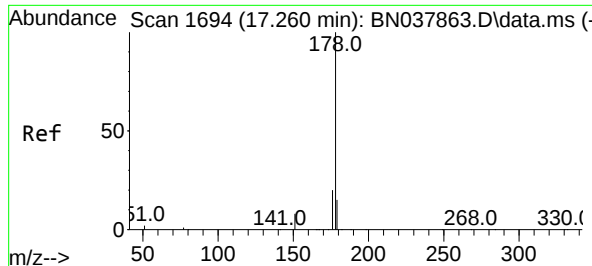
Ion Ratio Lower Upper

200 100

173 28.4 18.3 27.5#

215 49.4 38.6 58.0

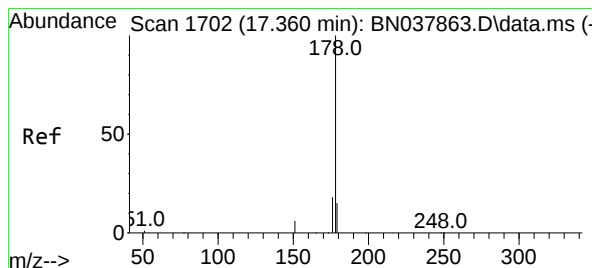
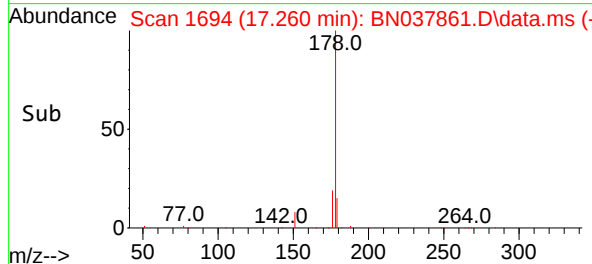
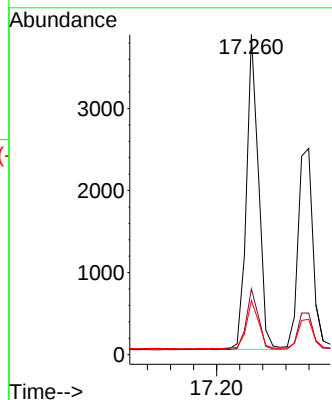
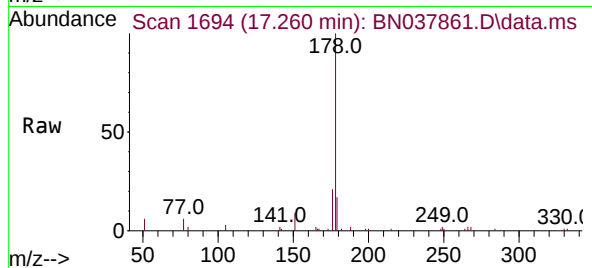




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

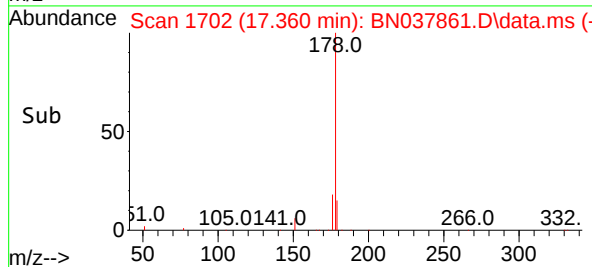
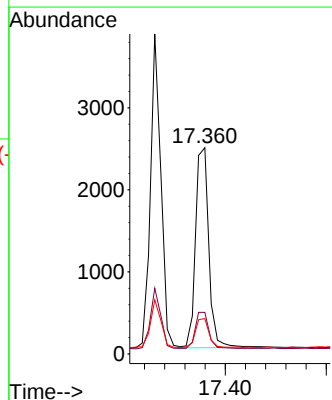
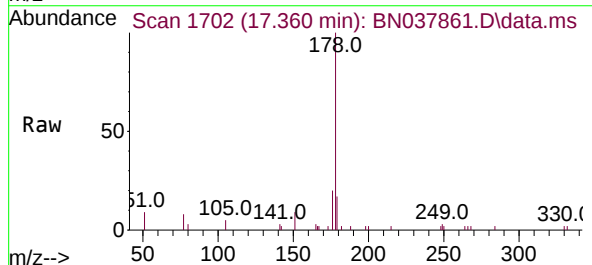
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

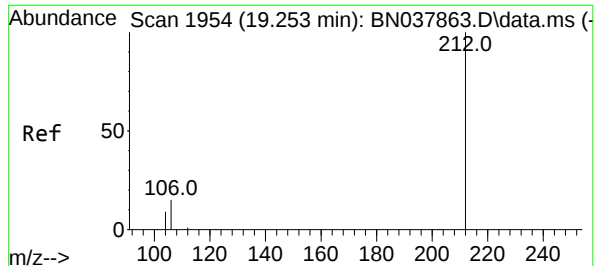
Tgt Ion:178 Resp: 5595
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 16.2 12.3 18.5



#26
Anthracene
Concen: 0.091 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:178 Resp: 4446
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.4
179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

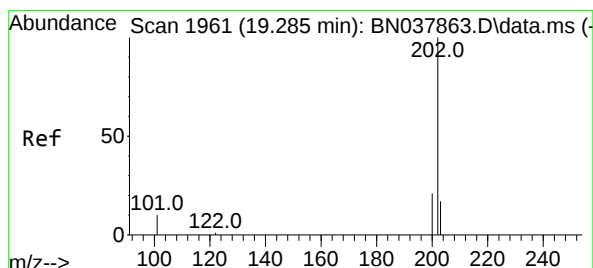
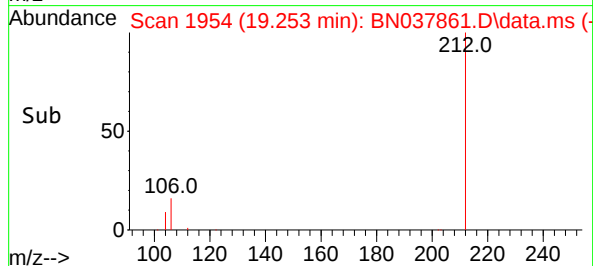
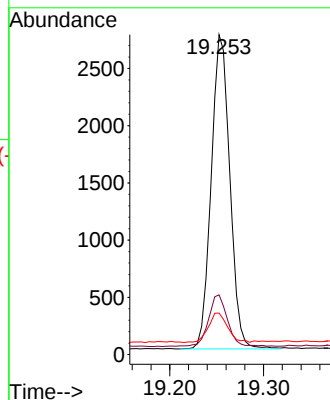
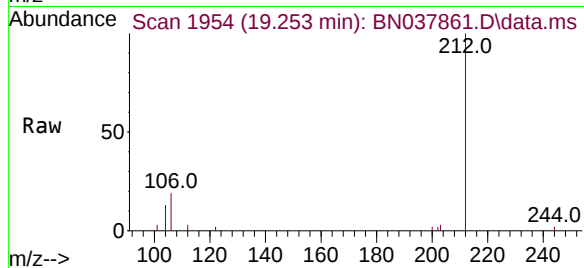
Tgt Ion:212 Resp: 3783

Ion Ratio Lower Upper

212 100

106 16.8 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.088 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

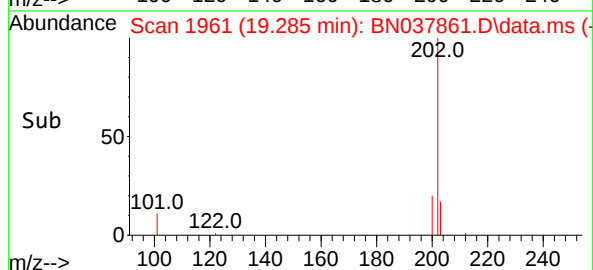
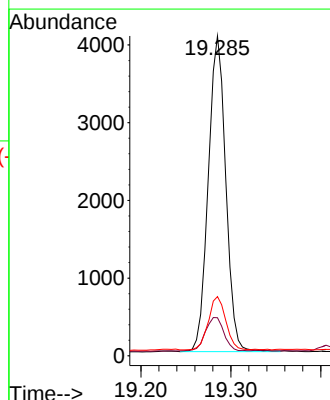
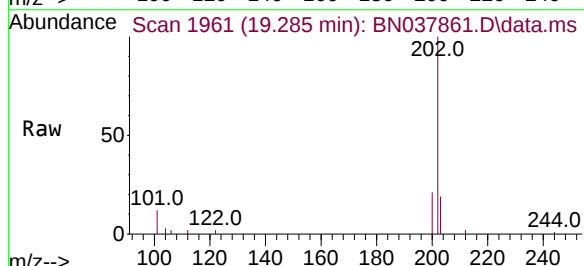
Tgt Ion:202 Resp: 5493

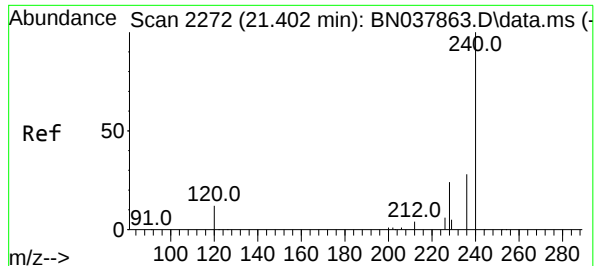
Ion Ratio Lower Upper

202 100

101 11.3 9.3 13.9

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

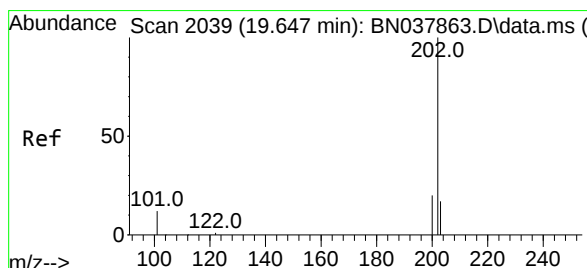
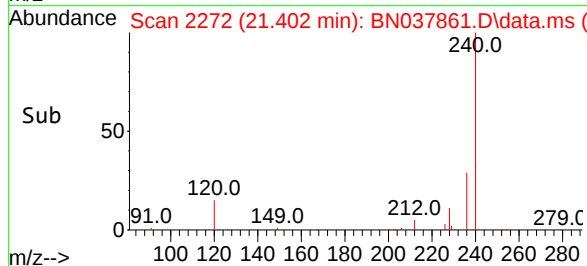
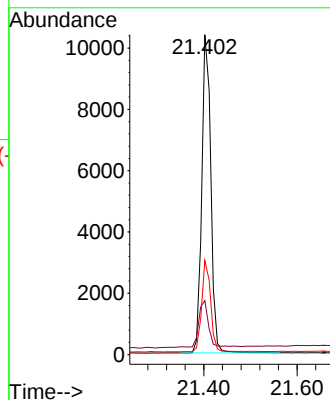
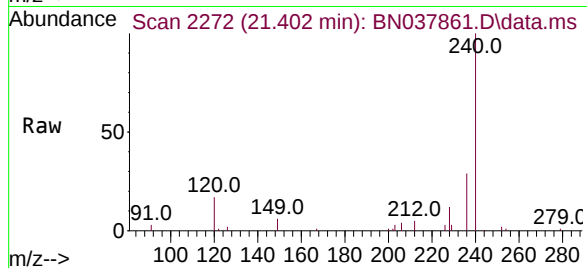
Tgt Ion:240 Resp: 13854

Ion Ratio Lower Upper

240 100

120 16.9 11.4 17.2

236 29.4 23.0 34.6



#30

Pyrene

Concen: 0.100 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

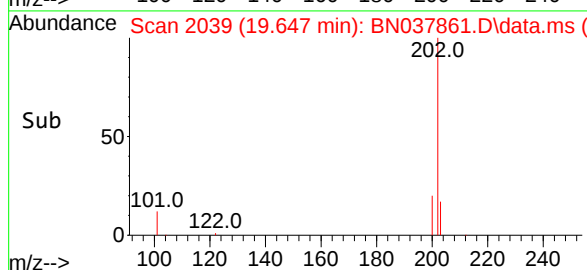
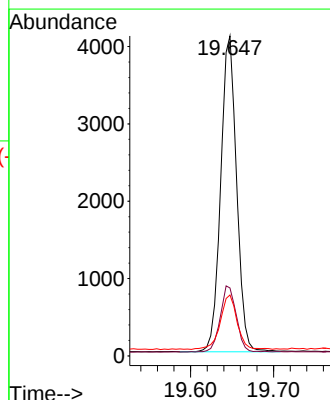
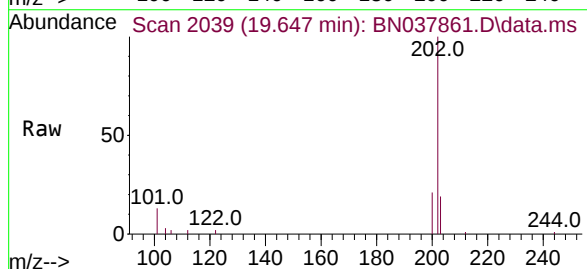
Tgt Ion:202 Resp: 5458

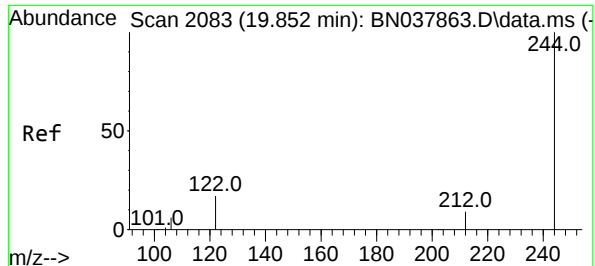
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.2 14.2 21.4

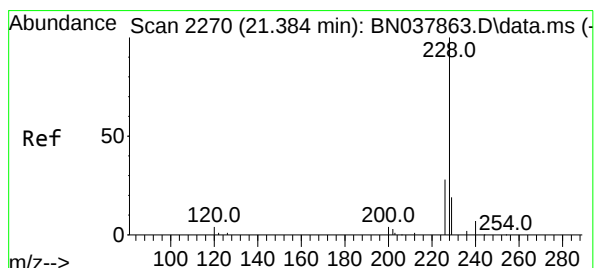
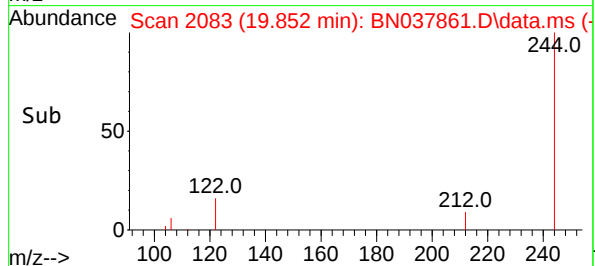
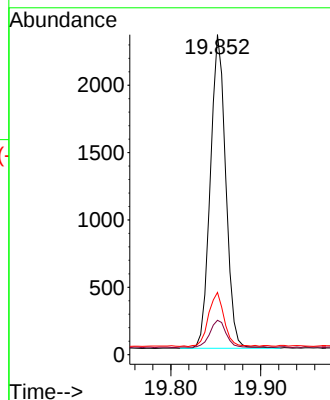
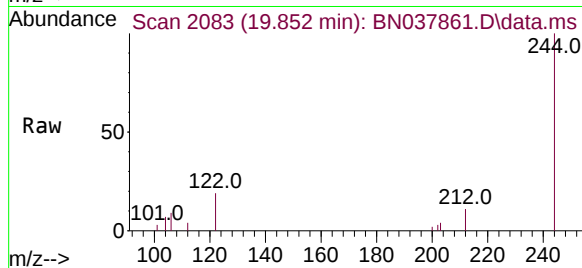




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

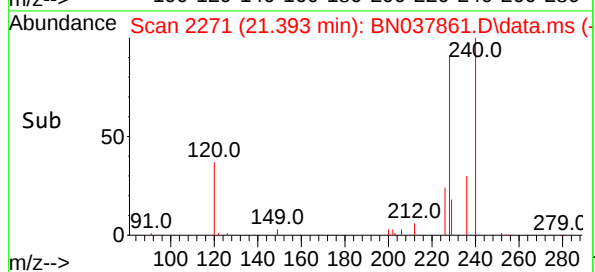
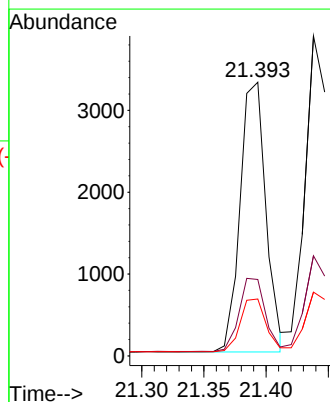
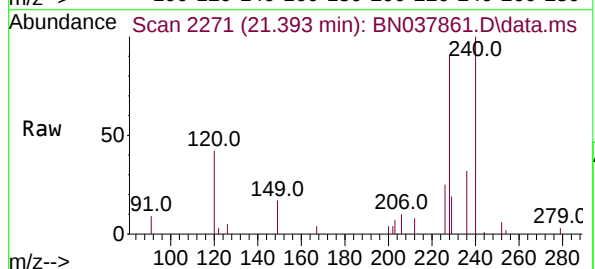
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

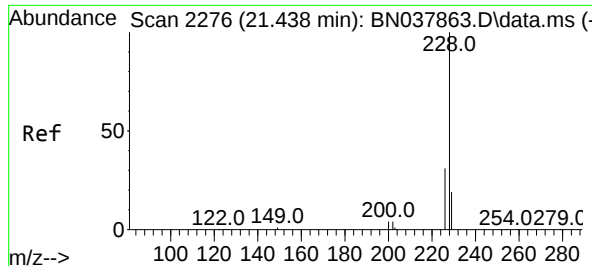
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.7	7.6	11.4
122	19.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.8	15.6	23.4





#33

Chrysene

Concen: 0.100 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

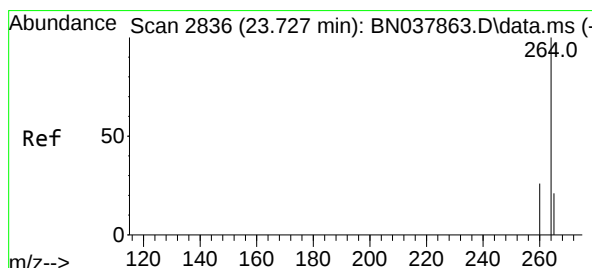
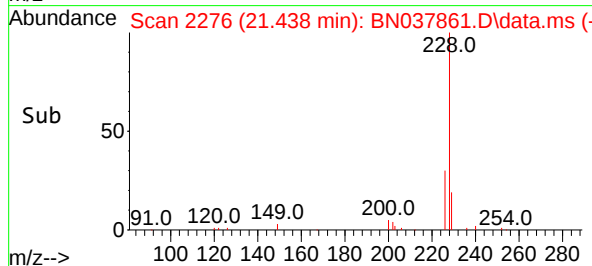
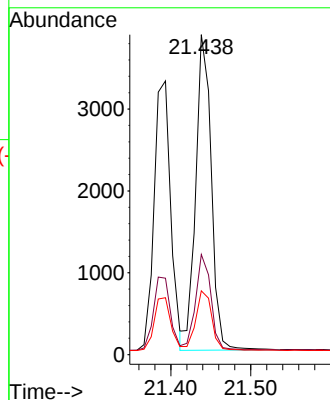
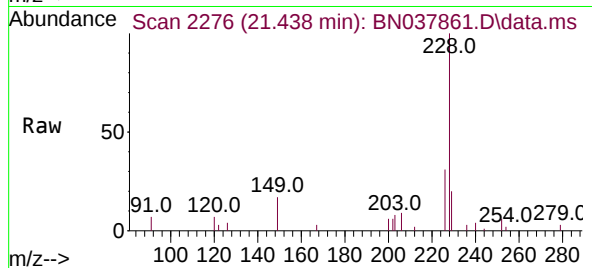
Tgt Ion:228 Resp: 5223

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.9 15.6 23.4



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

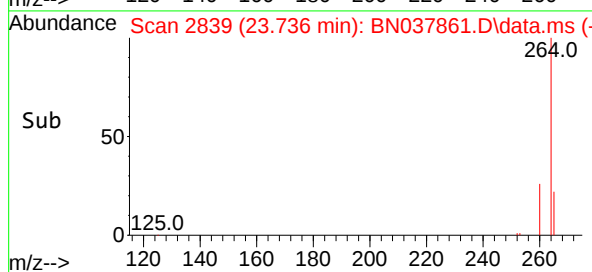
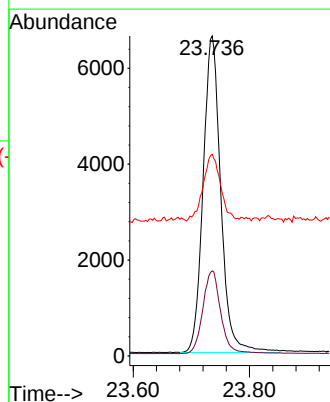
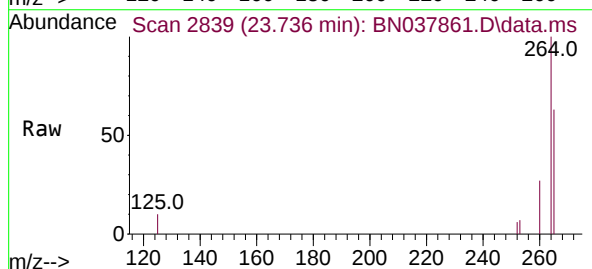
Tgt Ion:264 Resp: 13928

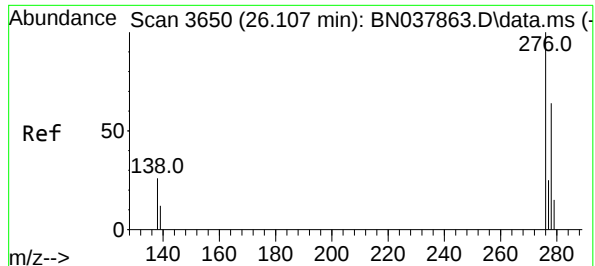
Ion Ratio Lower Upper

264 100

260 26.6 21.5 32.3

265 63.0 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.094 ng

RT: 26.113 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

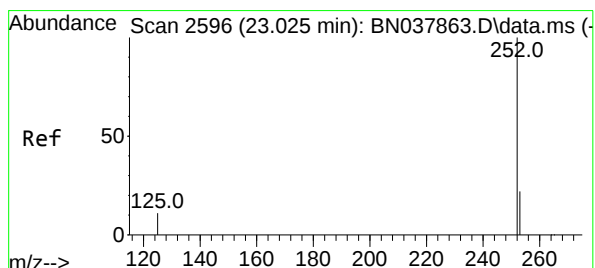
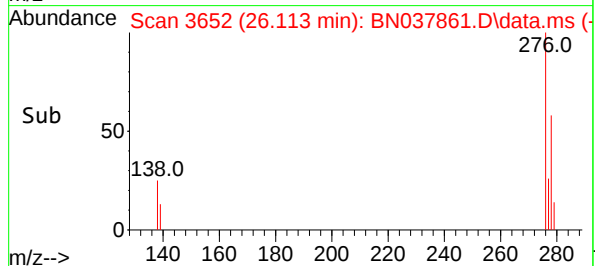
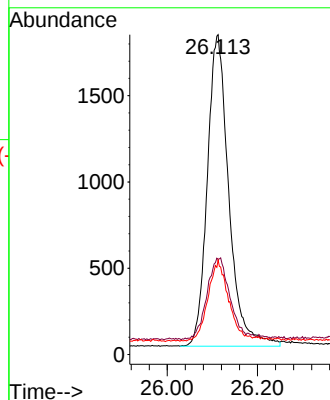
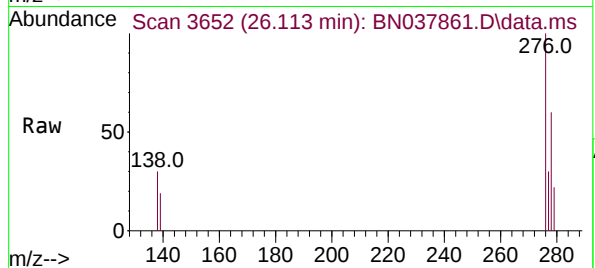
Tgt Ion:276 Resp: 5972

Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.6 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

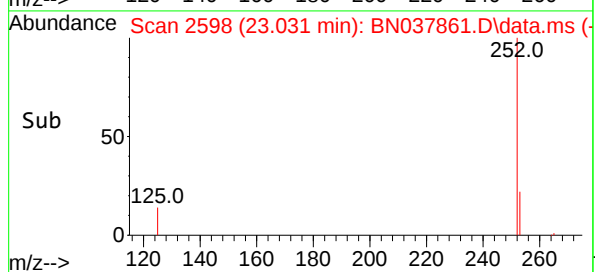
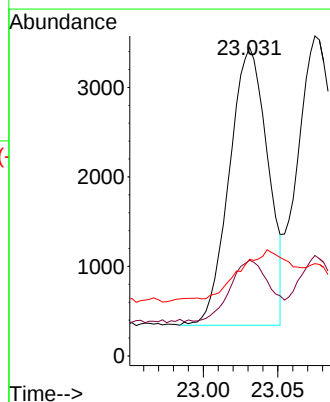
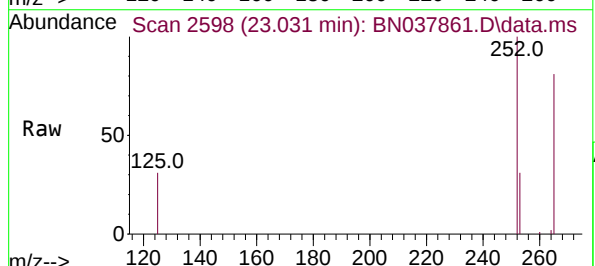
Tgt Ion:252 Resp: 5567

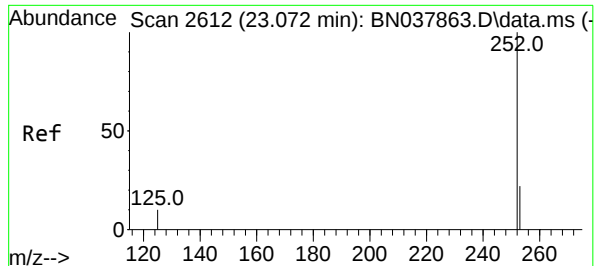
Ion Ratio Lower Upper

252 100

253 31.0 19.4 29.0#

125 31.3 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 23.075 min Scan# 2612

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

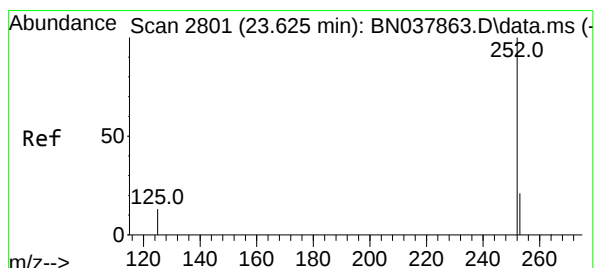
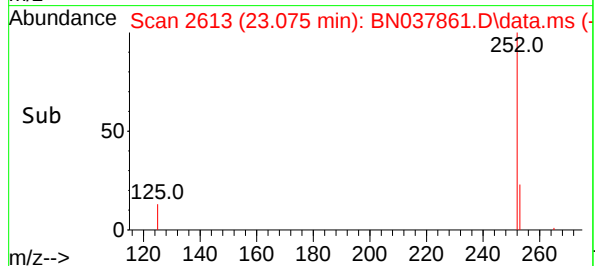
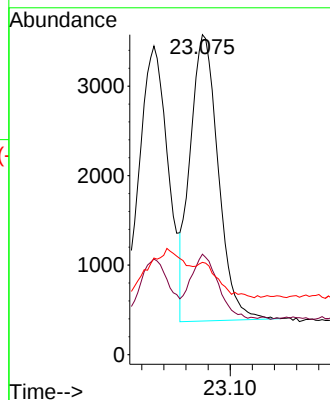
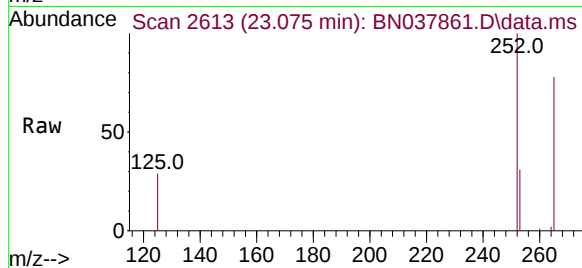
Tgt Ion:252 Resp: 5642

Ion Ratio Lower Upper

252 100

253 31.4 19.5 29.3#

125 28.8 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

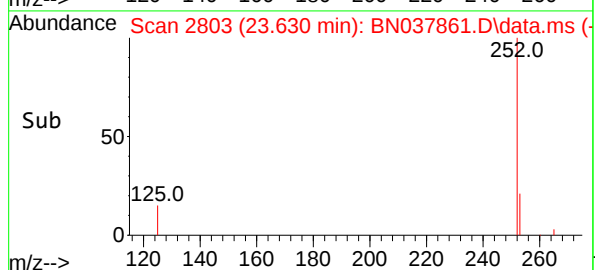
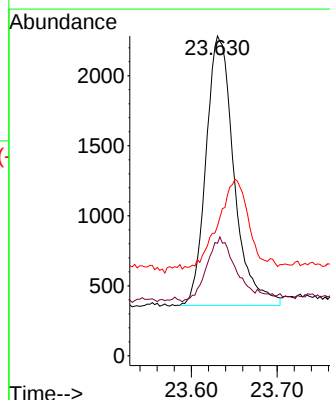
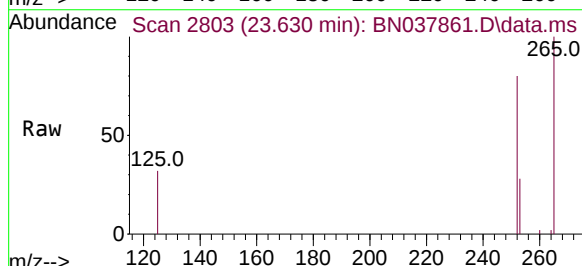
Tgt Ion:252 Resp: 4368

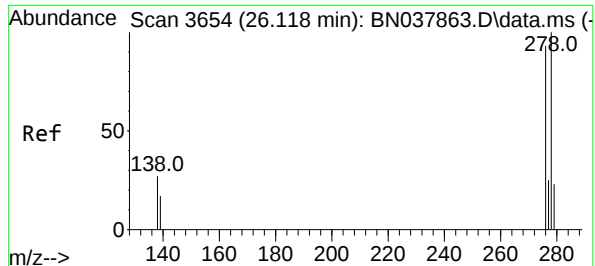
Ion Ratio Lower Upper

252 100

253 35.2 20.6 30.8#

125 40.6 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.127 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

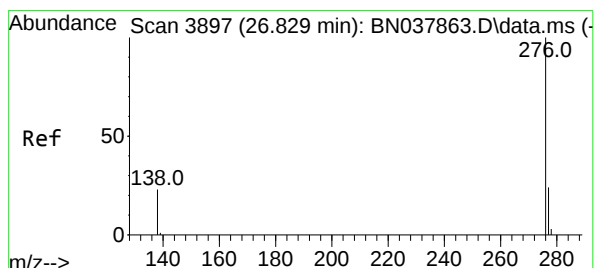
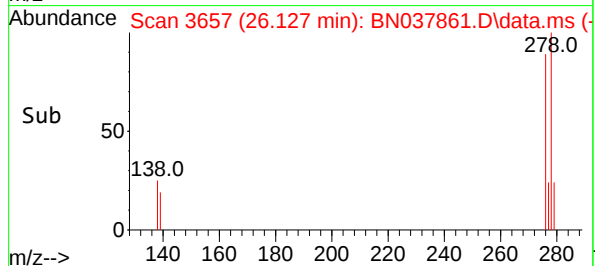
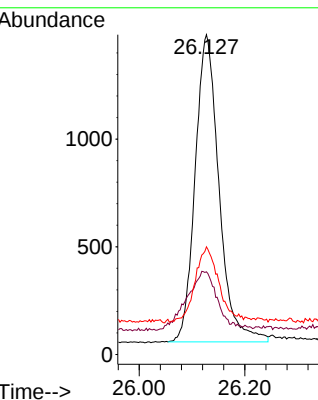
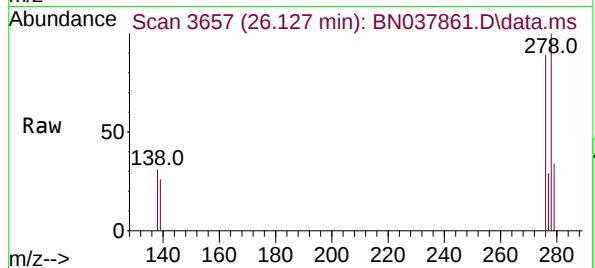
Tgt Ion:278 Resp: 4476

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 33.7 20.8 31.2#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.832 min Scan# 3898

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

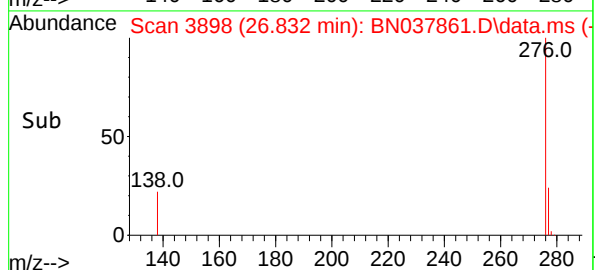
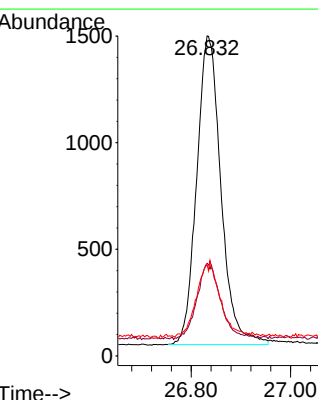
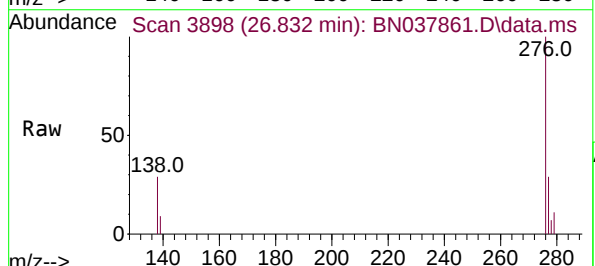
Tgt Ion:276 Resp: 4900

Ion Ratio Lower Upper

276 100

277 28.9 20.2 30.4

138 28.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037862.D
 Acq On : 23 Sep 2025 12:49
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

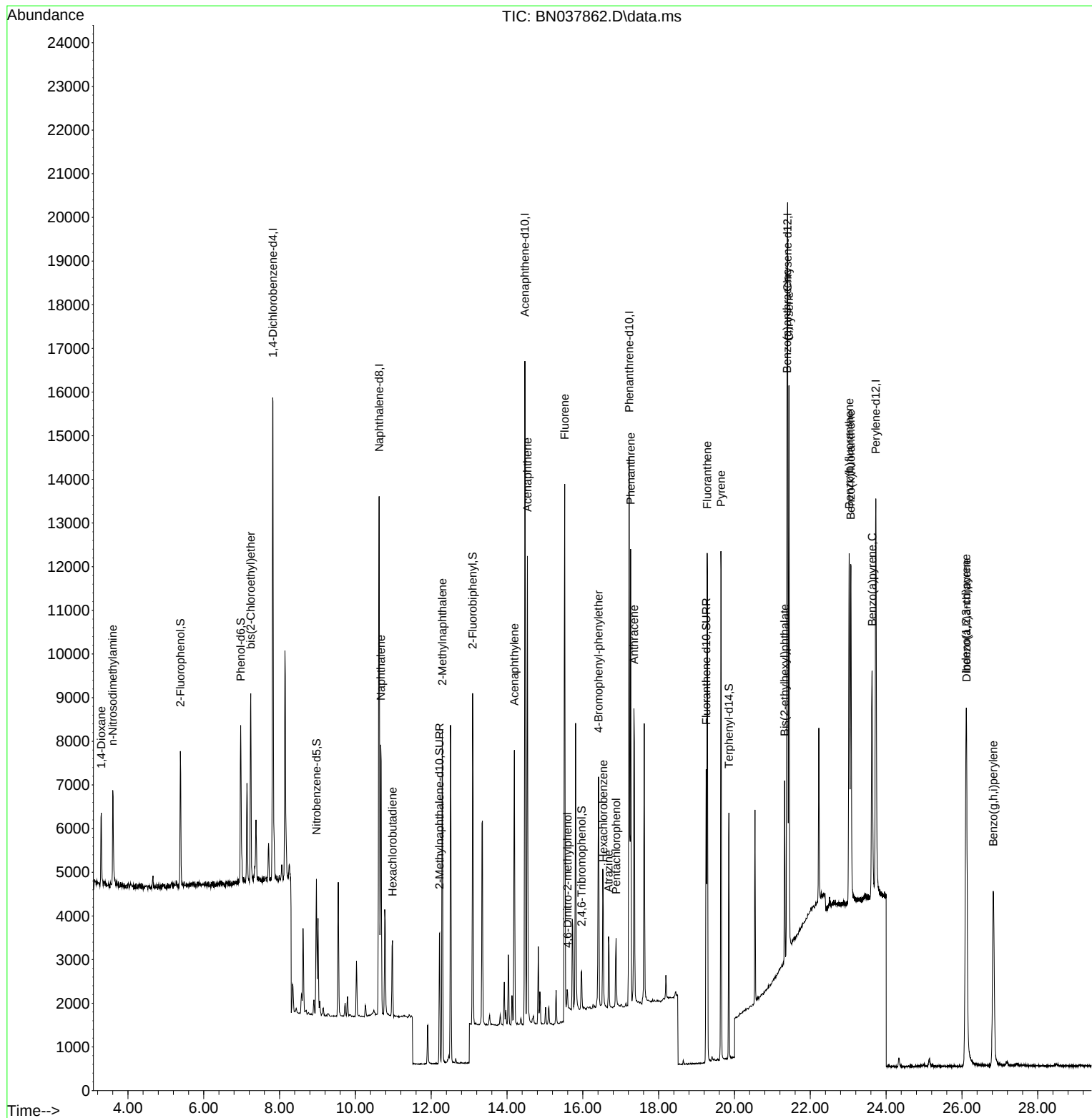
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13158	0.400	ng	0.00
35) Perylene-d12	23.730	264	12974	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	2553	0.202	ng	0.00
5) Phenol-d6	6.973	99	3326	0.200	ng	0.00
8) Nitrobenzene-d5	8.971	82	2278	0.190	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	4078	0.187	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	573	0.176	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	6579	0.199	ng	0.00
27) Fluoranthene-d10	19.253	212	7304	0.182	ng	0.00
31) Terphenyl-d14	19.852	244	5201	0.198	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	1144	0.203	ng	97
3) n-Nitrosodimethylamine	3.601	42	1500	0.200	ng	# 94
6) bis(2-Chloroethyl)ether	7.241	93	3039	0.197	ng	98
9) Naphthalene	10.669	128	8573	0.198	ng	99
10) Hexachlorobutadiene	10.979	225	1450	0.196	ng	# 99
12) 2-Methylnaphthalene	12.293	142	5361	0.189	ng	100
16) Acenaphthylene	14.195	152	6943	0.190	ng	99
17) Acenaphthene	14.537	154	4963	0.190	ng	98
18) Fluorene	15.523	166	5870	0.186	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	325	0.230	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	1965	0.190	ng	97
22) Hexachlorobenzene	16.540	284	2483	0.198	ng	99
23) Atrazine	16.677	200	1442	0.183	ng	# 89
24) Pentachlorophenol	16.876	266	804	0.186	ng	99
25) Phenanthrene	17.260	178	10109	0.193	ng	99
26) Anthracene	17.347	178	8235	0.181	ng	99
28) Fluoranthene	19.280	202	10466	0.181	ng	100
30) Pyrene	19.643	202	10528	0.203	ng	100
32) Benzo(a)anthracene	21.384	228	8943	0.194	ng	99
33) Chrysene	21.438	228	10042	0.202	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	3892	0.214	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	10845	0.183	ng	99
37) Benzo(b)fluoranthene	23.025	252	10420	0.186	ng	# 91
38) Benzo(k)fluoranthene	23.069	252	10290	0.183	ng	# 93
39) Benzo(a)pyrene	23.628	252	8405	0.190	ng	# 88
40) Dibenzo(a,h)anthracene	26.121	278	8321	0.180	ng	92
41) Benzo(g,h,i)perylene	26.826	276	8956	0.184	ng	97

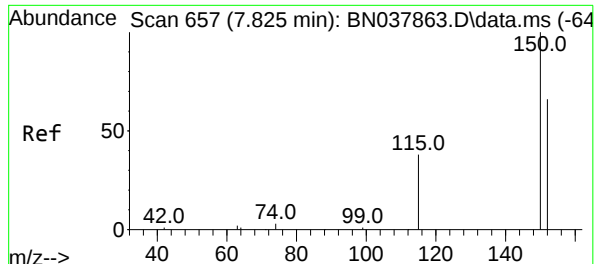
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037862.D
Acq On : 23 Sep 2025 12:49
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

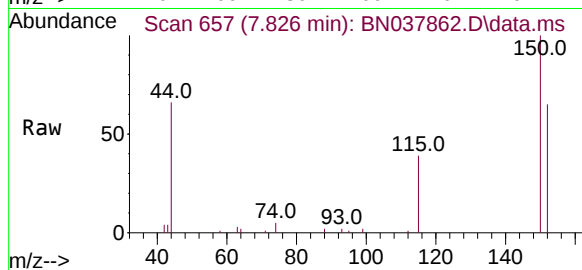
Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



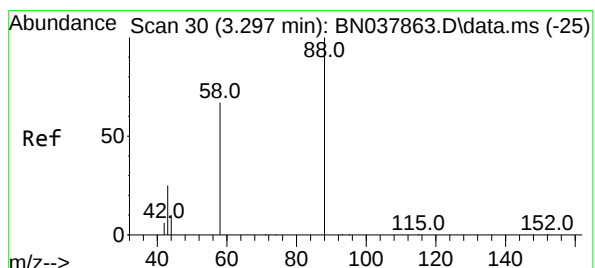
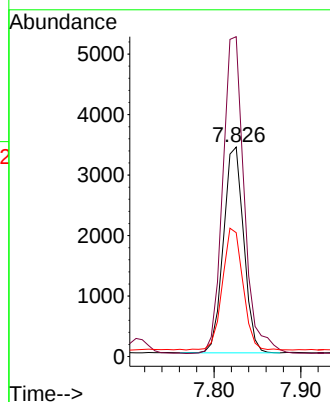
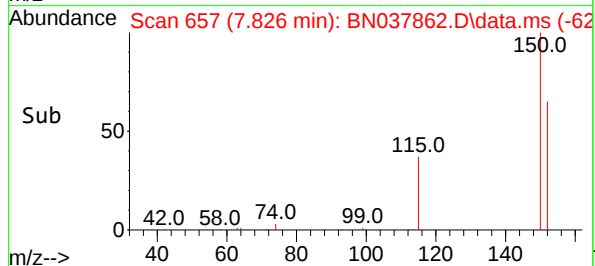


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

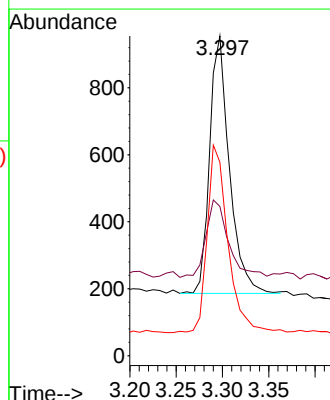
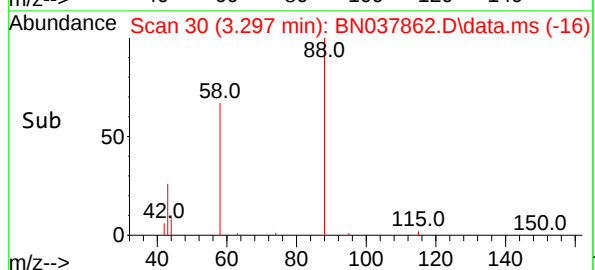
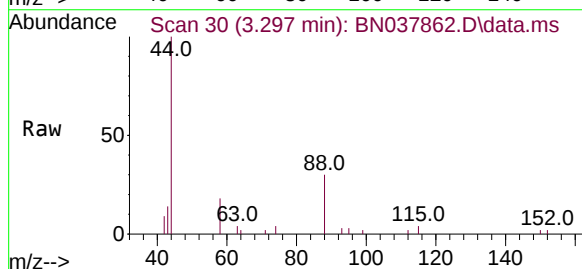


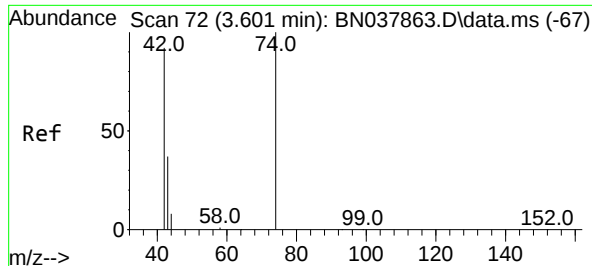
Tgt Ion:152 Resp: 5544
Ion Ratio Lower Upper
152 100
150 152.7 121.0 181.4
115 59.1 47.4 71.0



#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 88 Resp: 1144
Ion Ratio Lower Upper
88 100
43 34.1 26.6 39.8
58 76.4 58.9 88.3

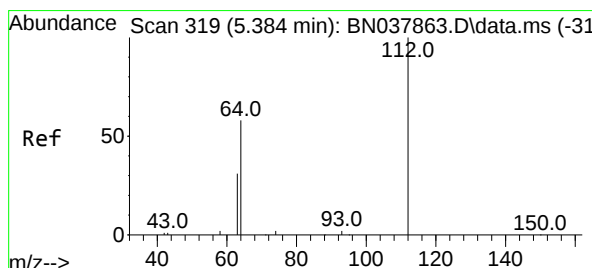
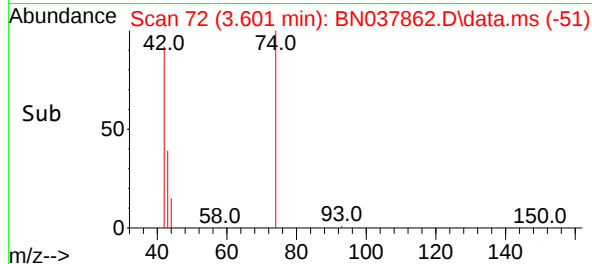
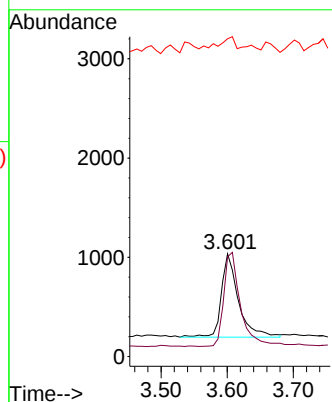
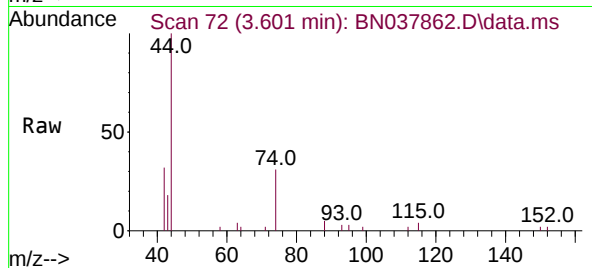




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

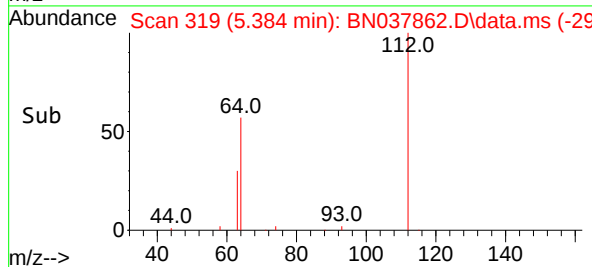
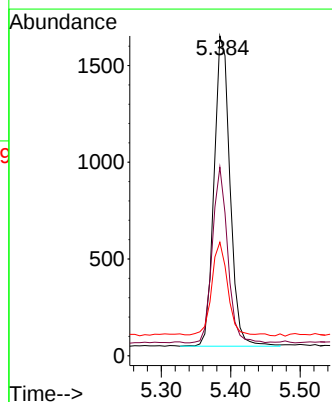
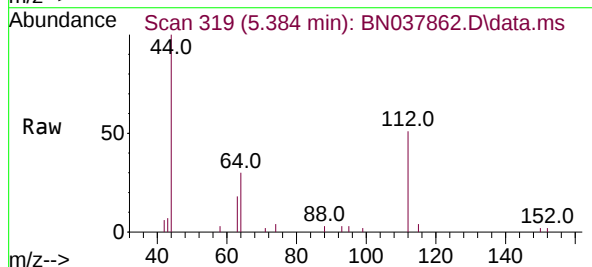
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

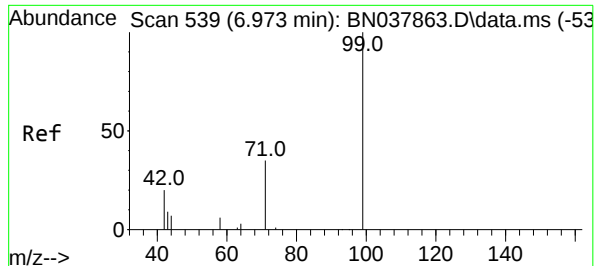
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 112.1 93.4 140.0
44 20.9 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 112 Resp: 2553
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 30.9 24.9 37.3

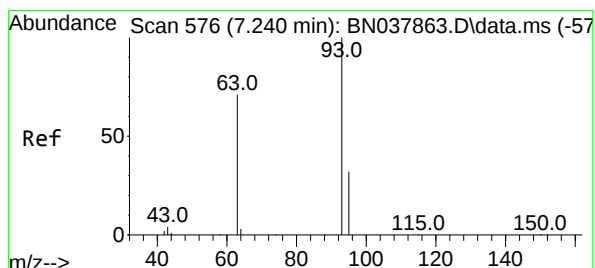
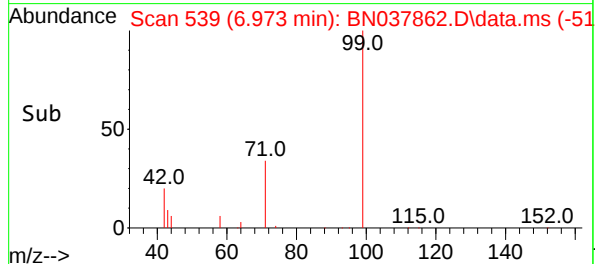
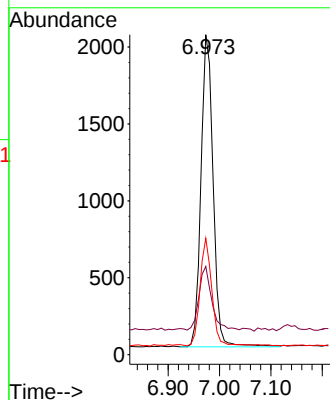
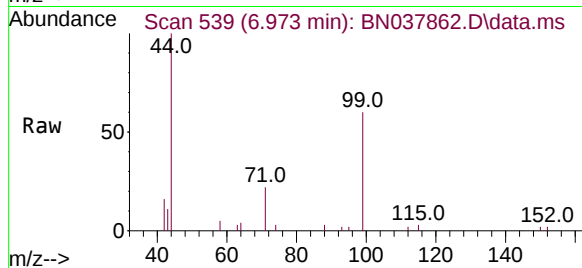




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

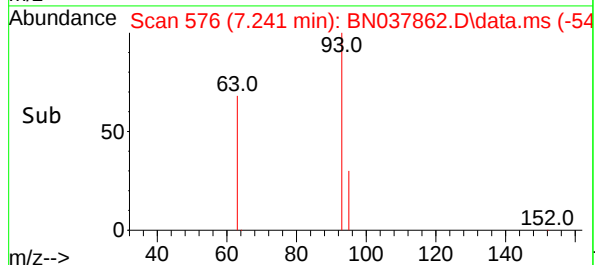
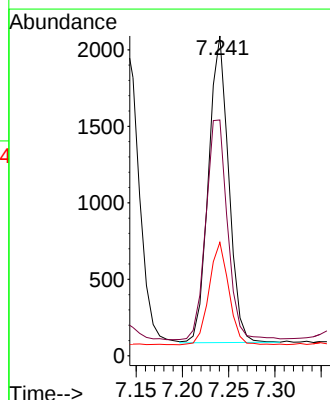
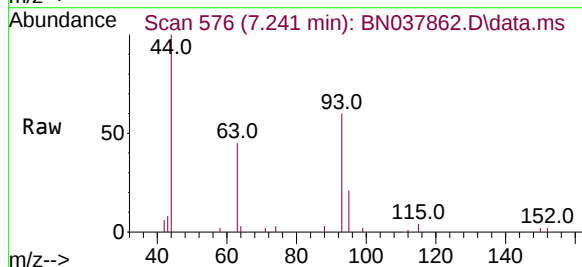
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

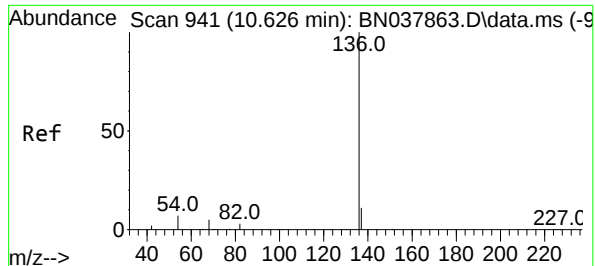
Tgt Ion:	99	Resp:	3326
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:	93	Resp:	3039
Ion	Ratio	Lower	Upper
93	100		
63	77.1	60.1	90.1
95	33.0	25.4	38.2

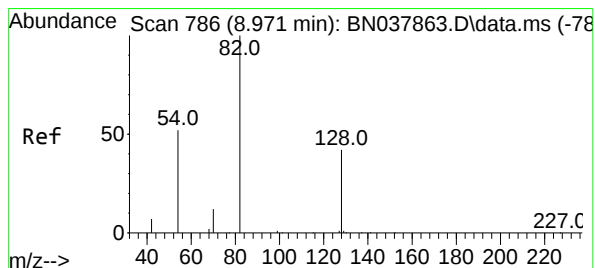
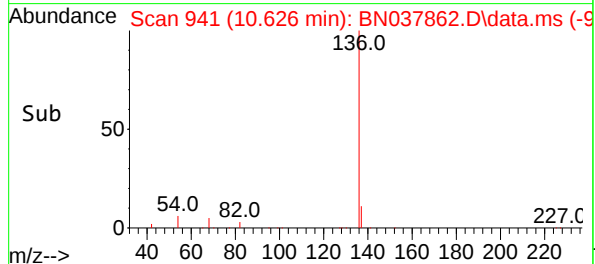
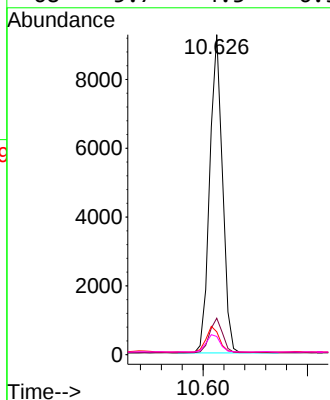
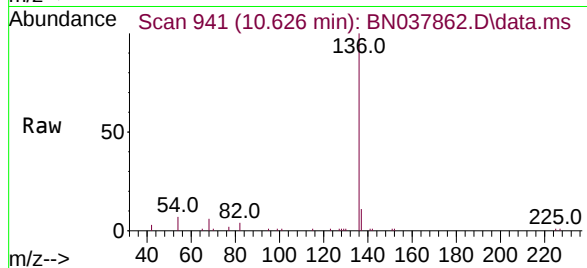




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

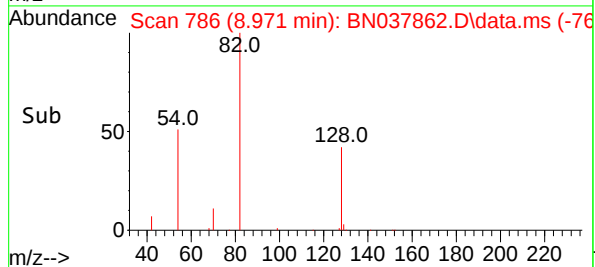
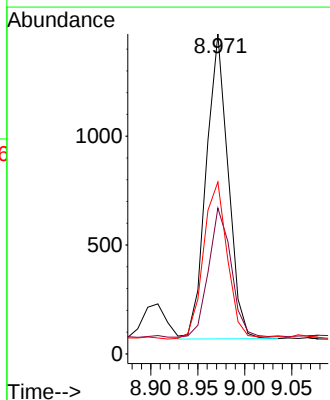
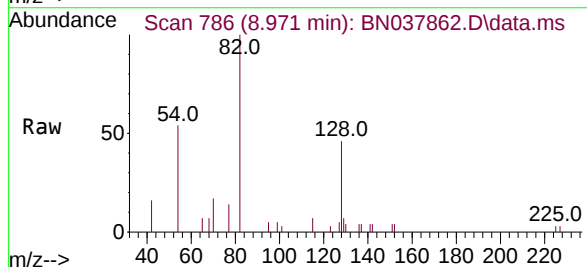
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

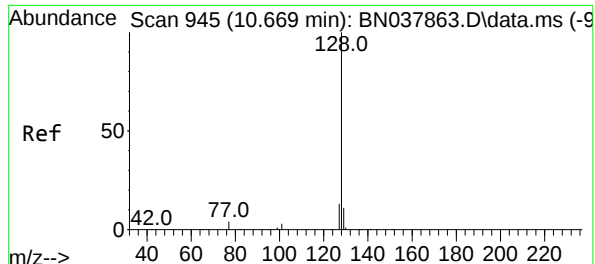
Tgt Ion:	136	Resp:	15739
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:	82	Resp:	2278
Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.8	52.2
54	53.7	42.2	63.2

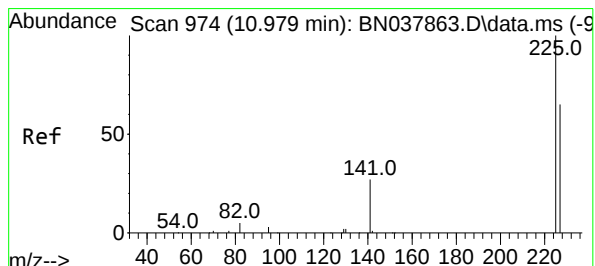
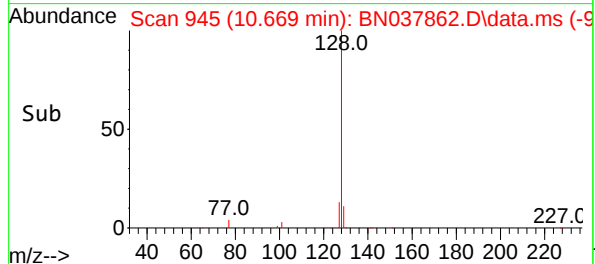
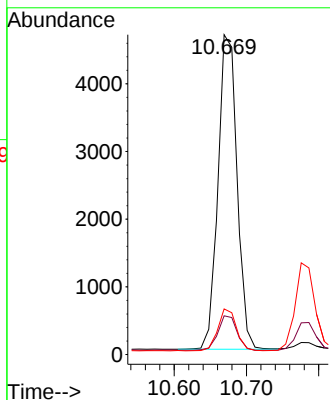
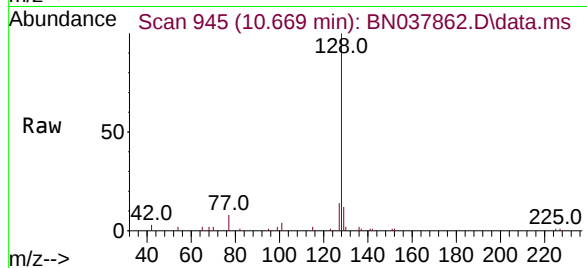




#9
Naphthalene
Concen: 0.198 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

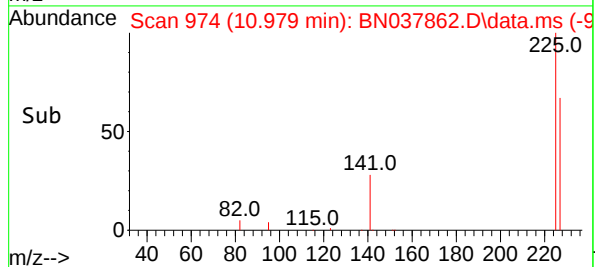
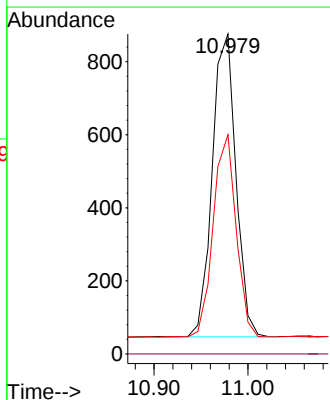
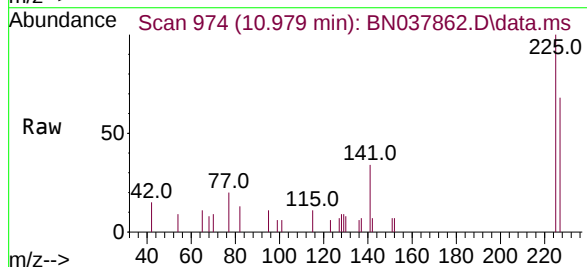
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

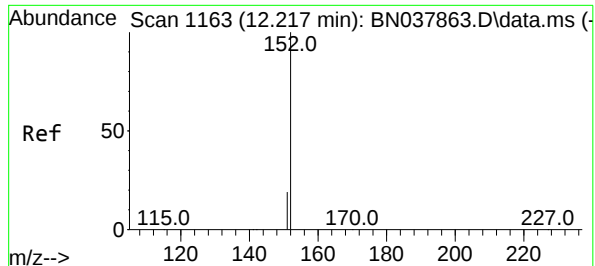
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.2	13.8
127	14.3	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.196 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.4	77.2

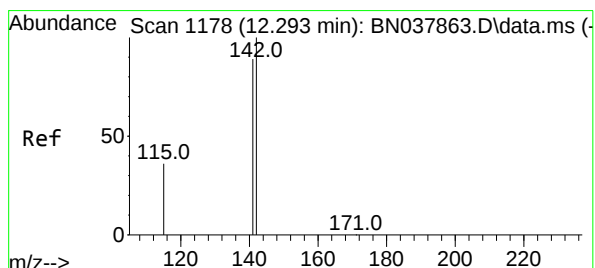
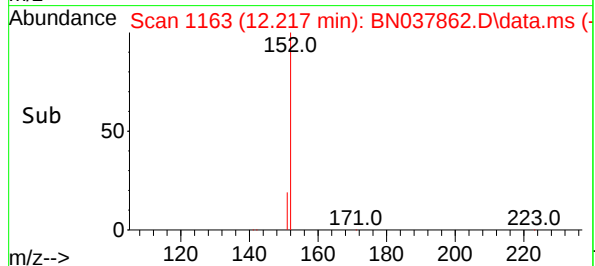
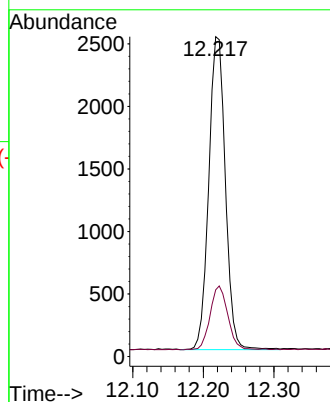
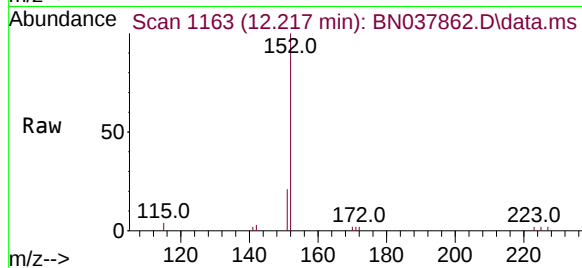




#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

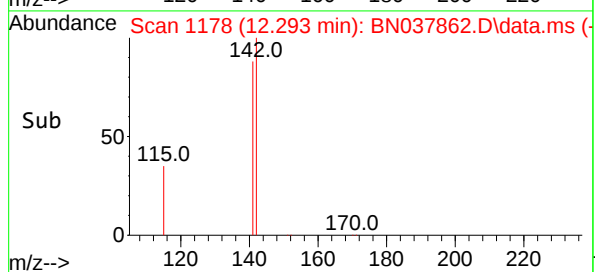
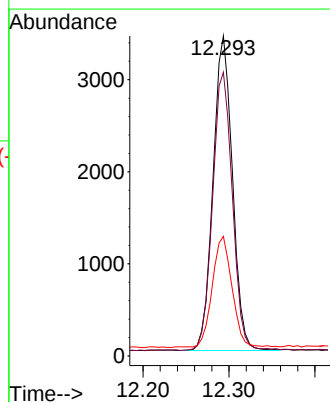
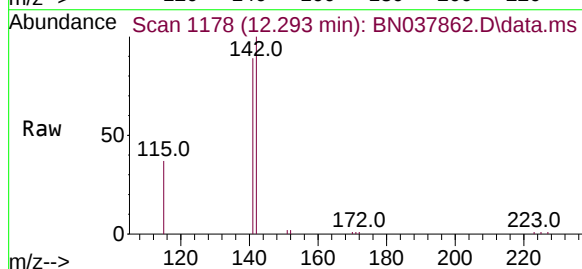
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

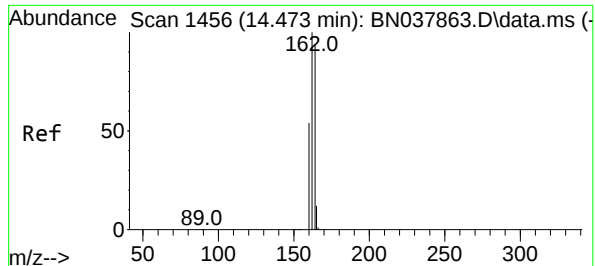
Tgt Ion:152 Resp: 4078
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:142 Resp: 5361
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 37.3 29.7 44.5

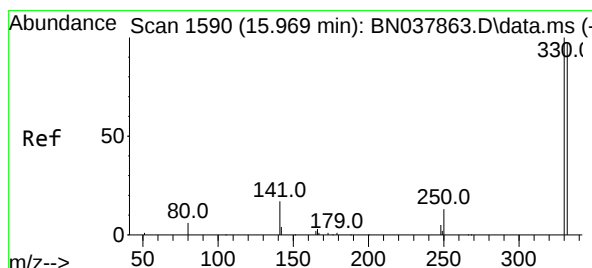
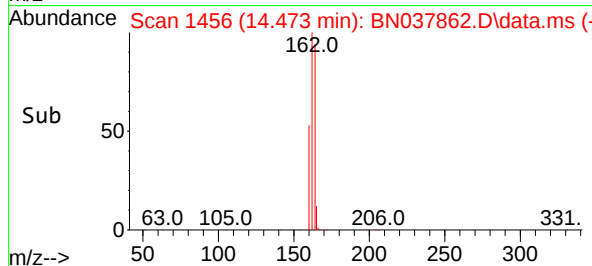
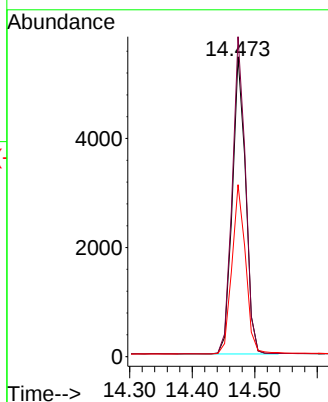
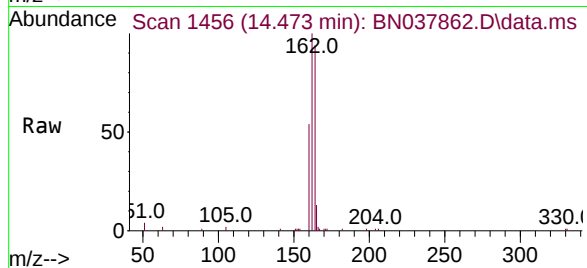




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

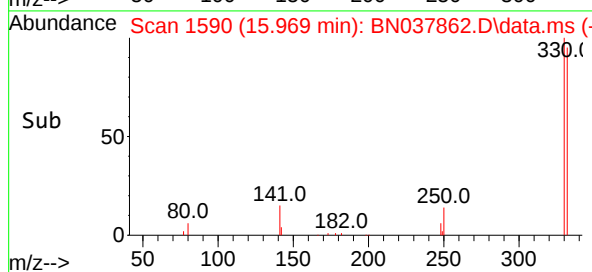
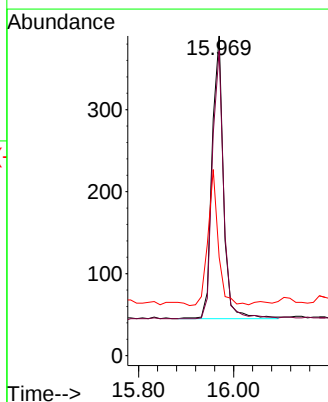
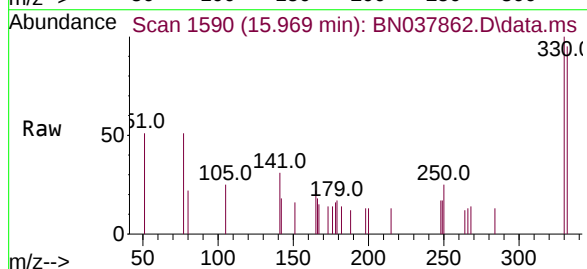
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

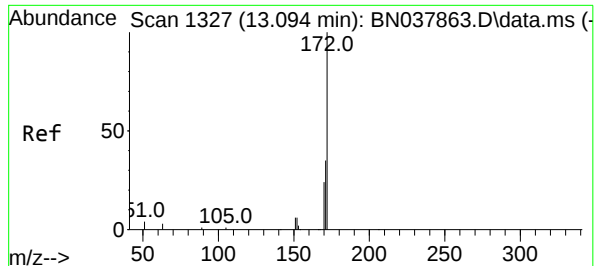
Tgt Ion	164	Resp:	8069
Ion Ratio	Lower	Upper	
164	100		
162	106.7	84.8	127.2
160	57.3	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	330	Resp:	573
Ion Ratio	Lower	Upper	
330	100		
332	94.2	77.2	115.8
141	44.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 0.199 ng

RT: 13.094 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

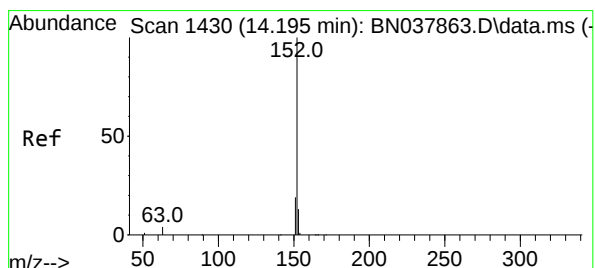
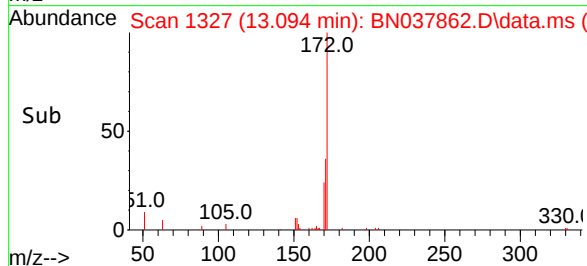
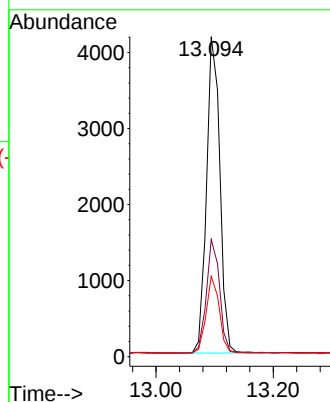
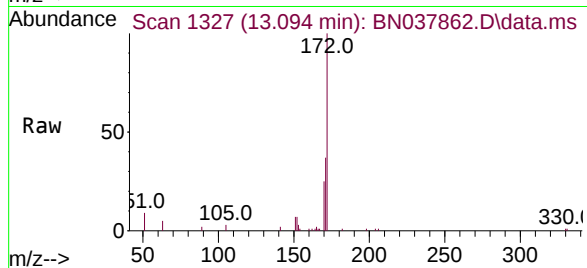
Tgt Ion:172 Resp: 6579

Ion Ratio Lower Upper

172 100

171 36.6 28.6 43.0

170 25.1 19.7 29.5



#16

Acenaphthylene

Concen: 0.190 ng

RT: 14.195 min Scan# 1430

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

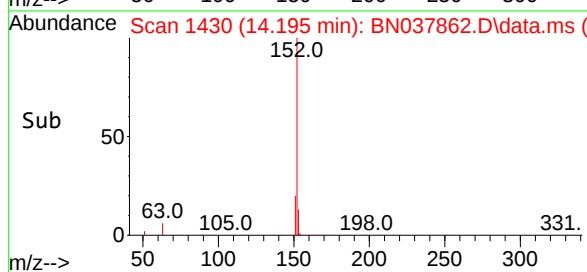
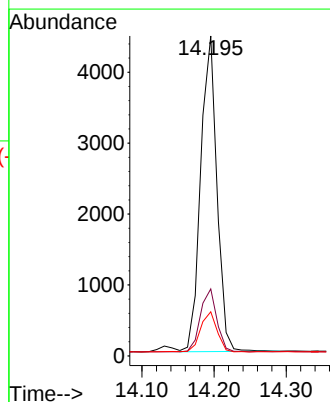
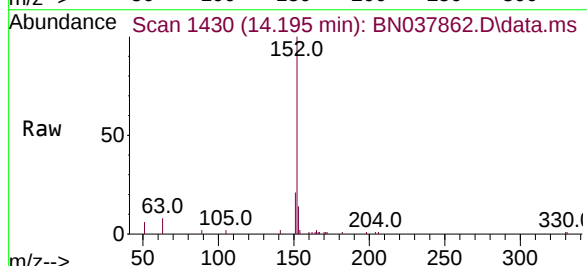
Tgt Ion:152 Resp: 6943

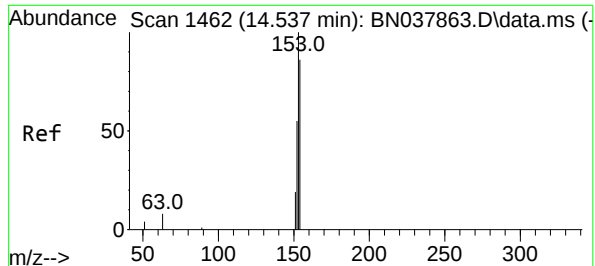
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

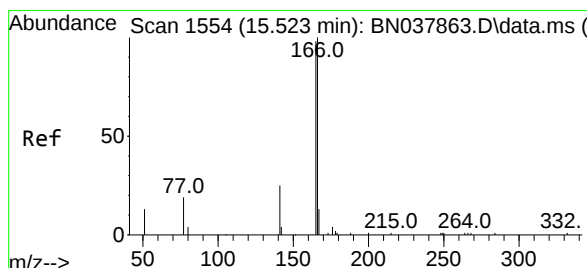
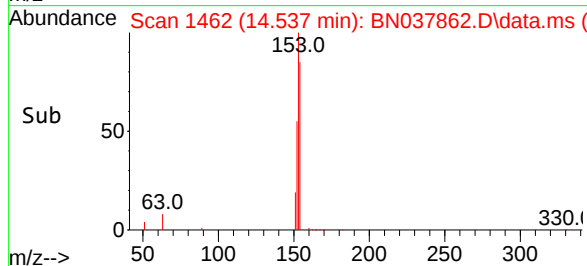
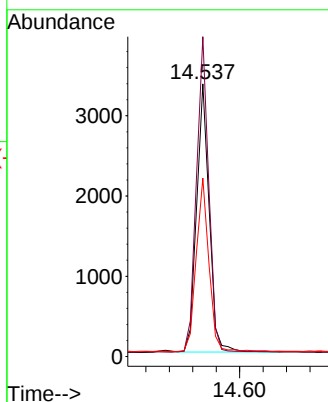
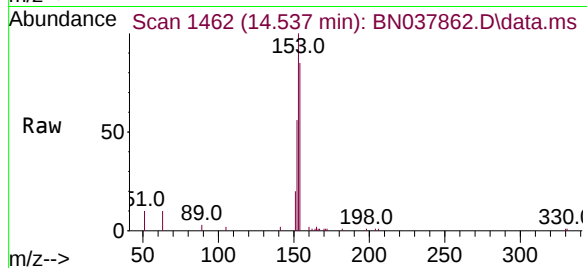
Tgt Ion:154 Resp: 4963

Ion Ratio Lower Upper

154 100

153 115.4 90.5 135.7

152 65.5 51.8 77.8



#18

Fluorene

Concen: 0.186 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

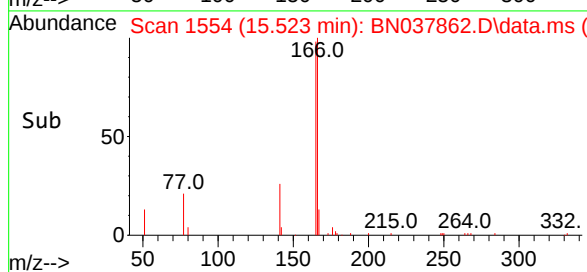
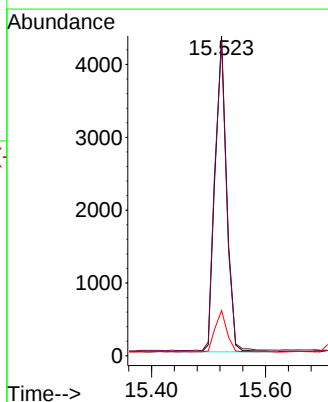
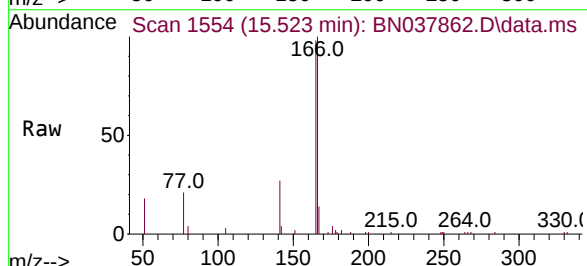
Tgt Ion:166 Resp: 5870

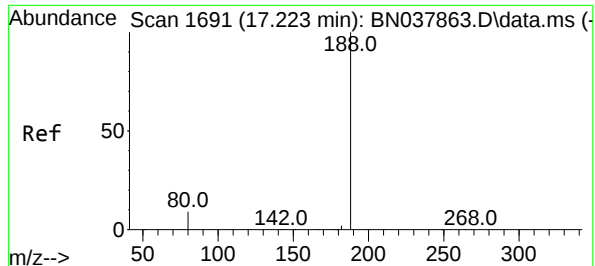
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

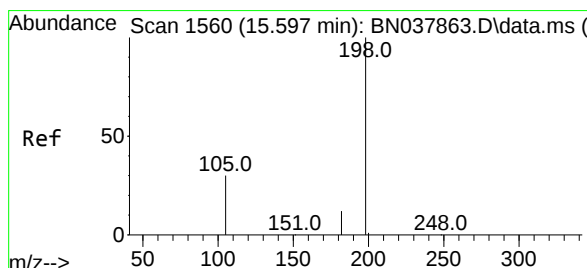
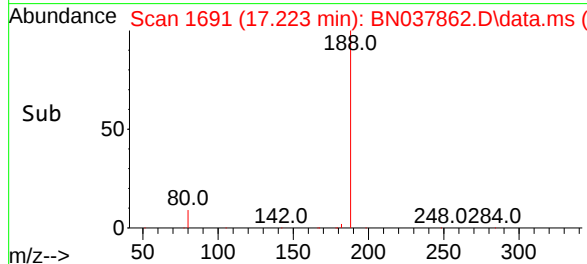
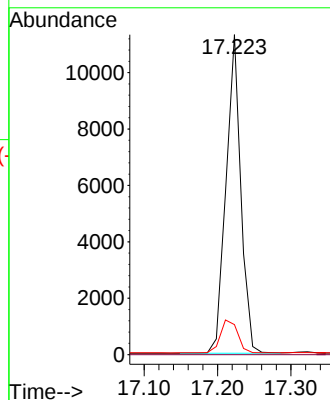
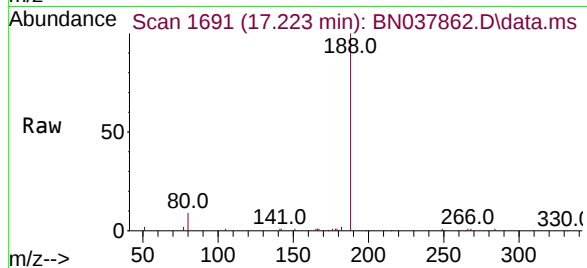
Tgt Ion:188 Resp: 15912

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.230 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

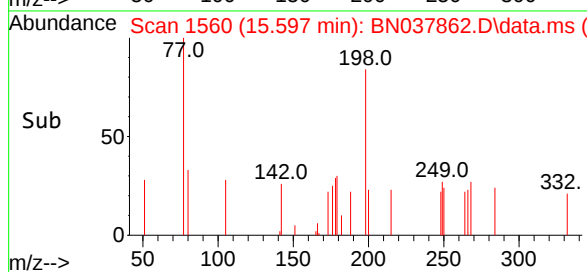
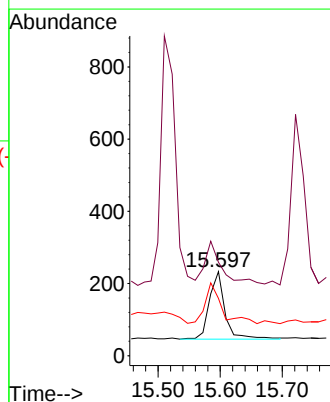
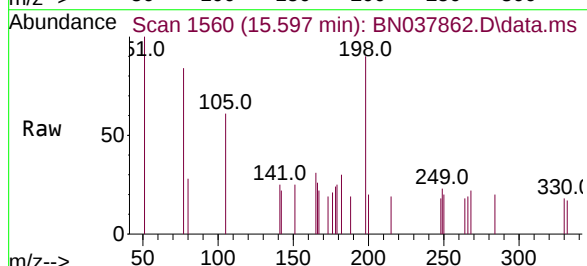
Tgt Ion:198 Resp: 325

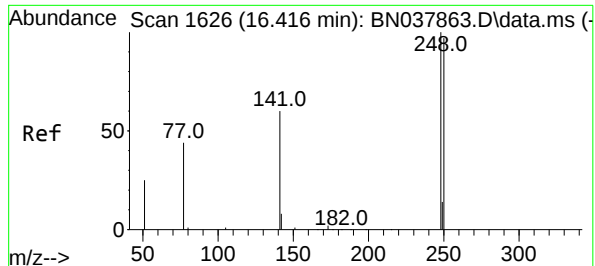
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 0.190 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

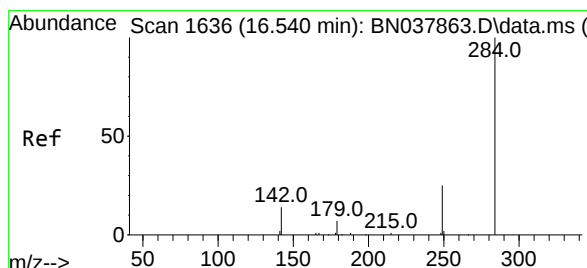
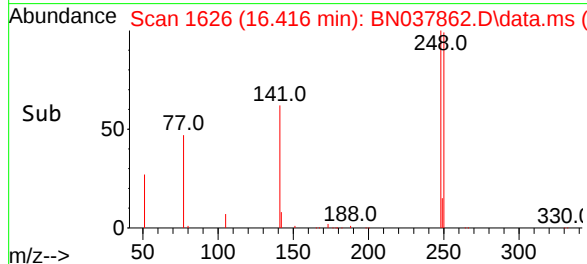
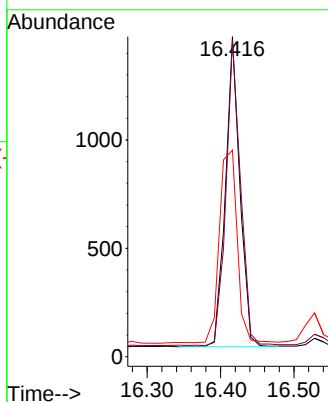
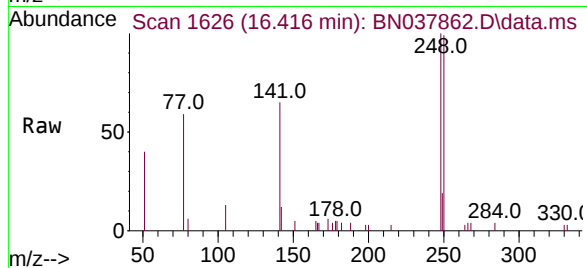
Tgt Ion:248 Resp: 1965

Ion Ratio Lower Upper

248 100

250 98.8 77.6 116.4

141 64.5 48.8 73.2



#22

Hexachlorobenzene

Concen: 0.198 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

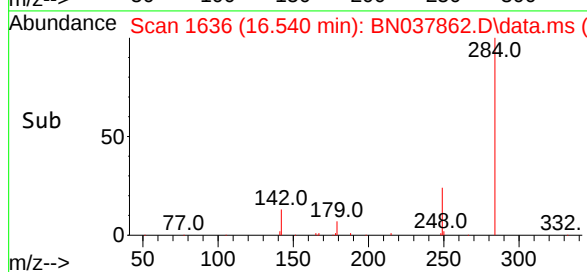
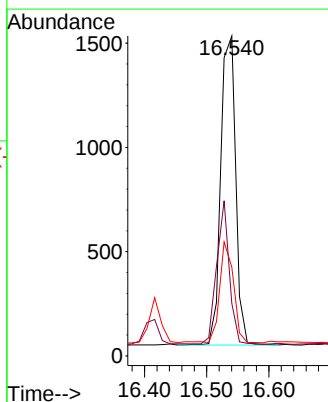
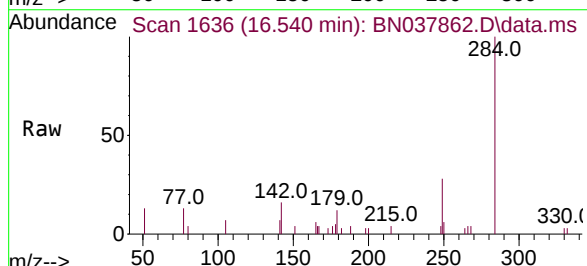
Tgt Ion:284 Resp: 2483

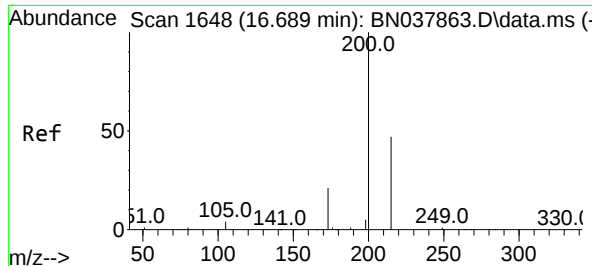
Ion Ratio Lower Upper

284 100

142 39.2 30.9 46.3

249 30.3 23.9 35.9

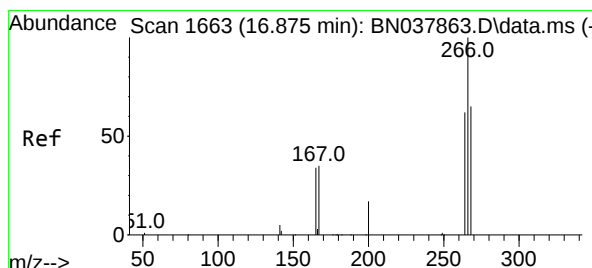
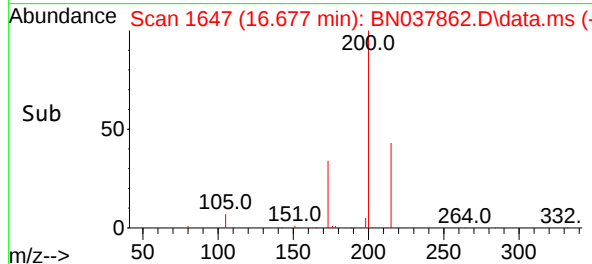
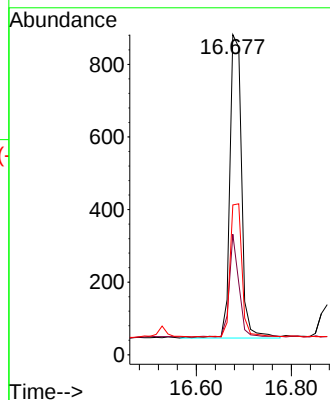
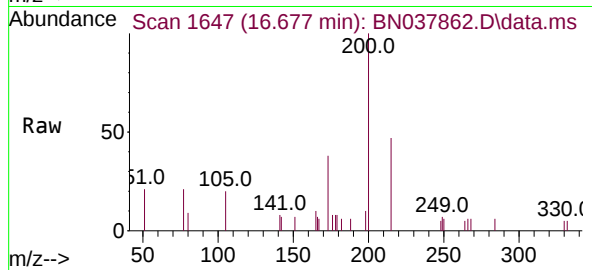




#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

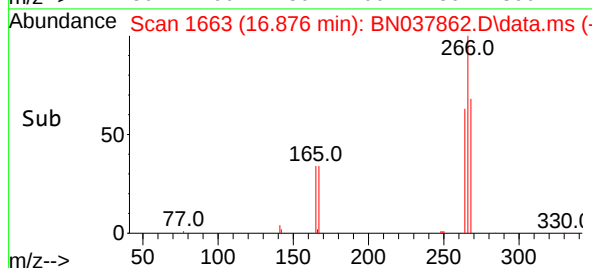
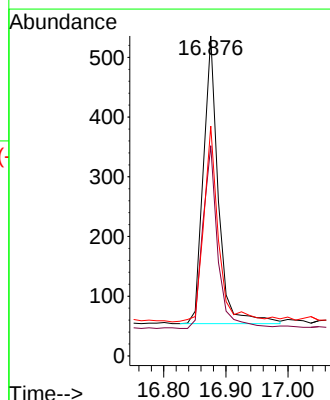
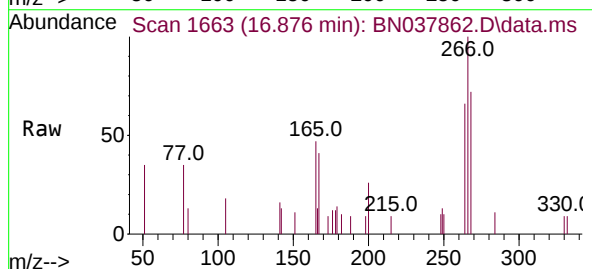
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

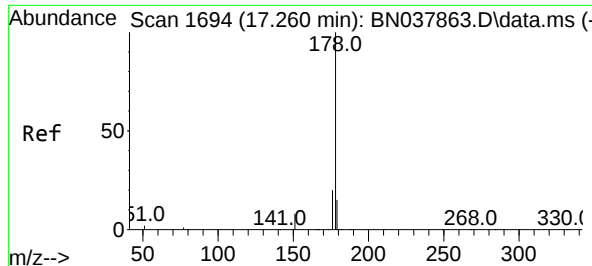
Tgt Ion:200 Resp: 1442
Ion Ratio Lower Upper
200 100
173 37.6 18.3 27.5#
215 46.8 38.6 58.0



#24
Pentachlorophenol
Concen: 0.186 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:266 Resp: 804
Ion Ratio Lower Upper
266 100
264 63.3 50.9 76.3
268 66.4 54.3 81.5





#25

Phenanthrene

Concen: 0.193 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

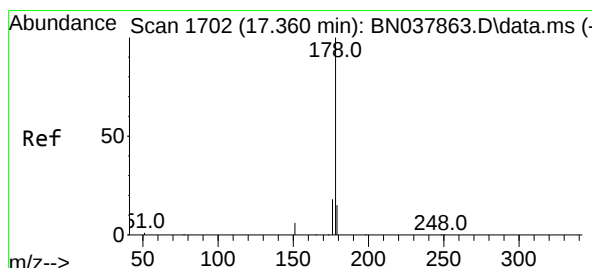
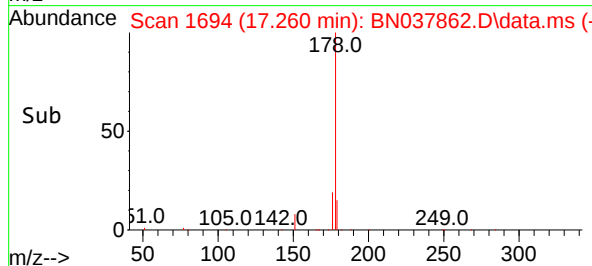
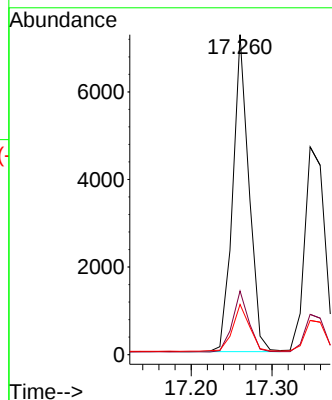
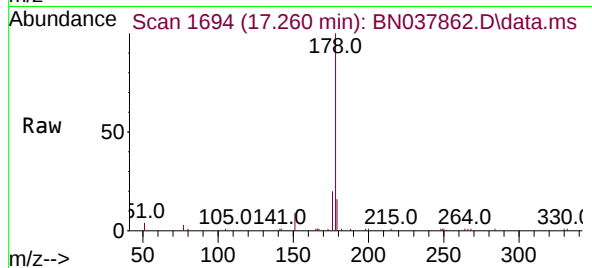
Tgt Ion:178 Resp: 10109

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.181 ng

RT: 17.347 min Scan# 1701

Delta R.T. -0.012 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

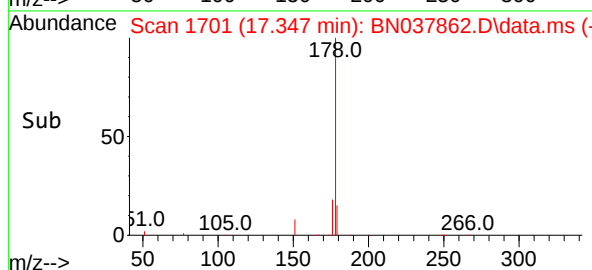
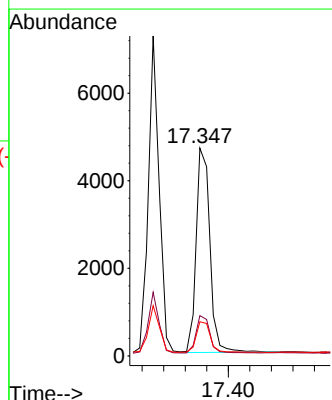
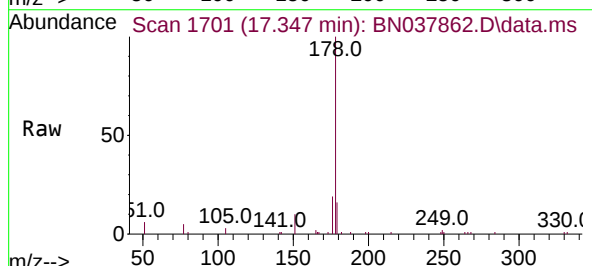
Tgt Ion:178 Resp: 8235

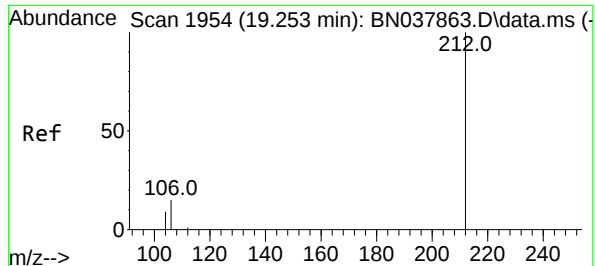
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.4

179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

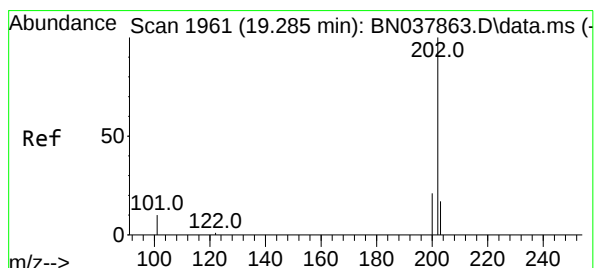
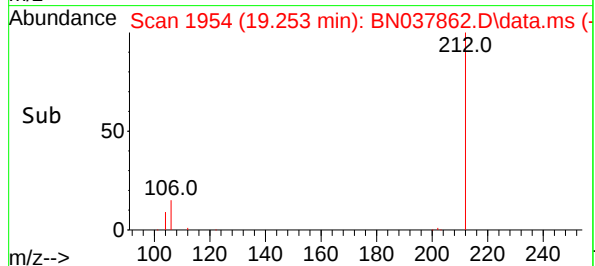
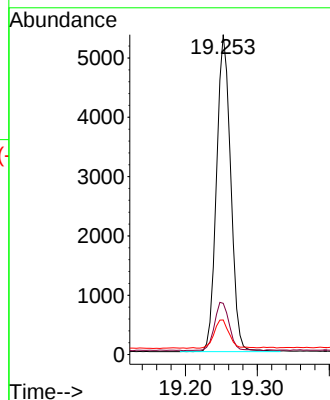
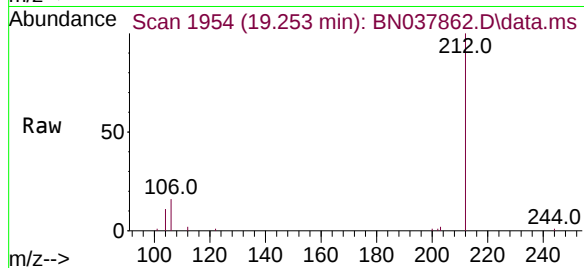
Tgt Ion:212 Resp: 7304

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

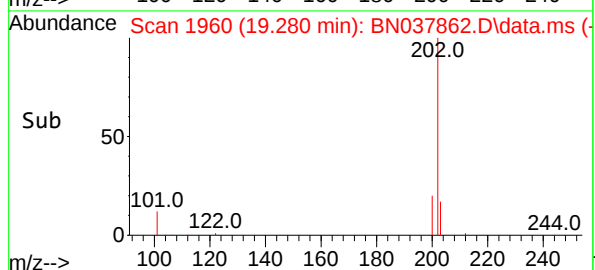
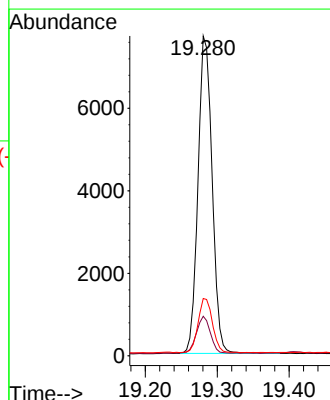
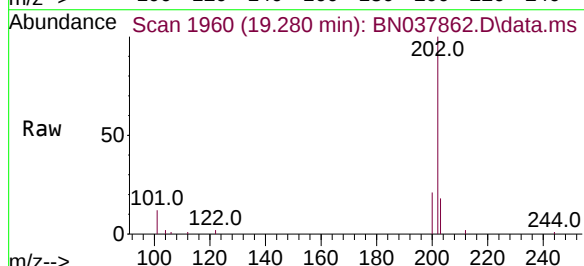
Tgt Ion:202 Resp: 10466

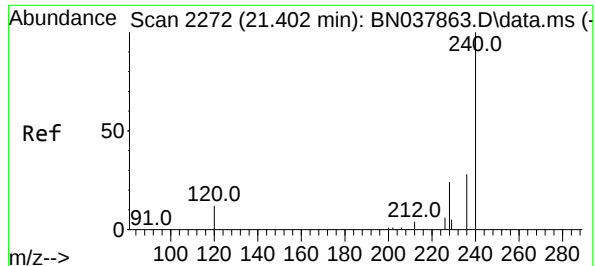
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

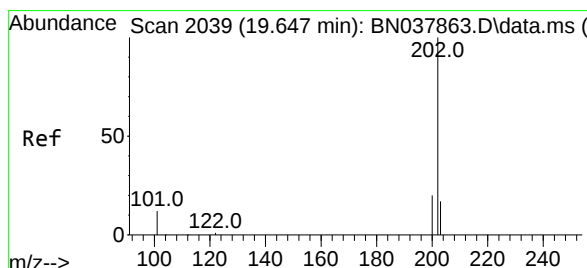
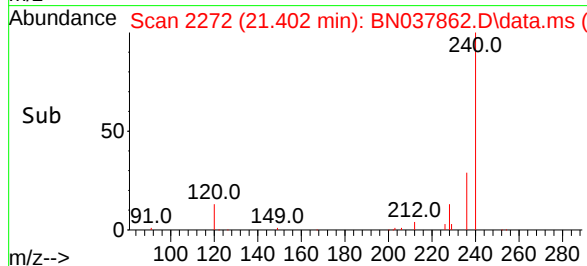
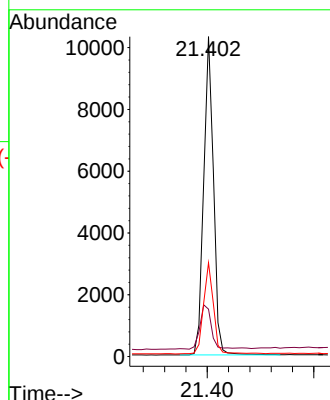
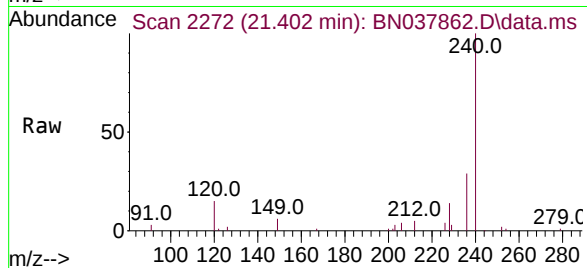
Tgt Ion:240 Resp: 13158

Ion Ratio Lower Upper

240 100

120 14.8 11.4 17.2

236 29.3 23.0 34.6



#30

Pyrene

Concen: 0.203 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

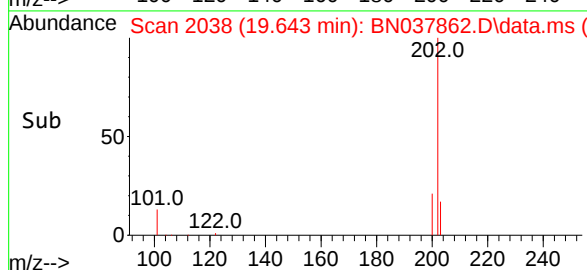
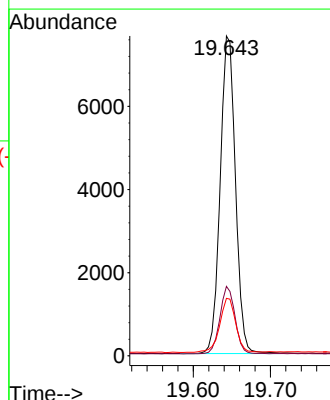
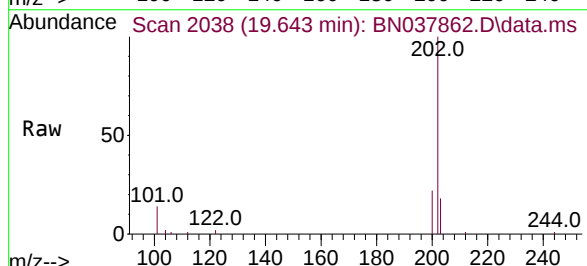
Tgt Ion:202 Resp: 10528

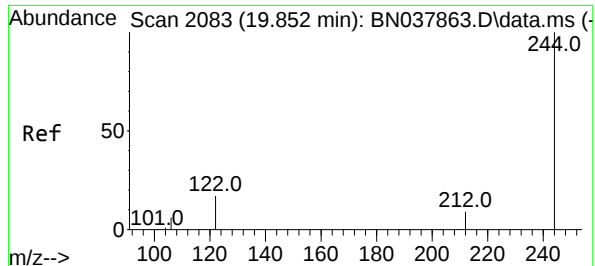
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.9 14.2 21.4

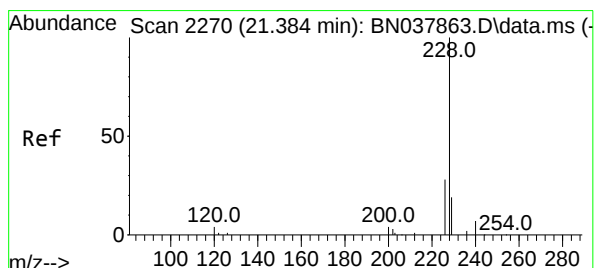
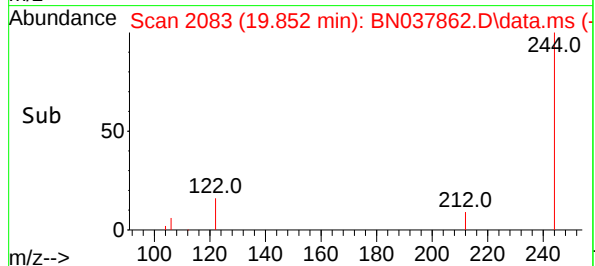
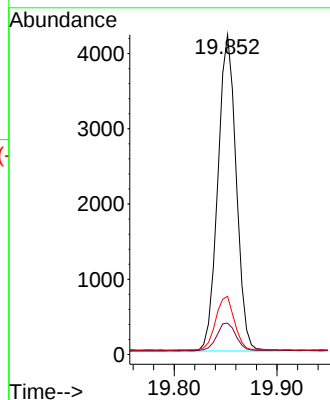
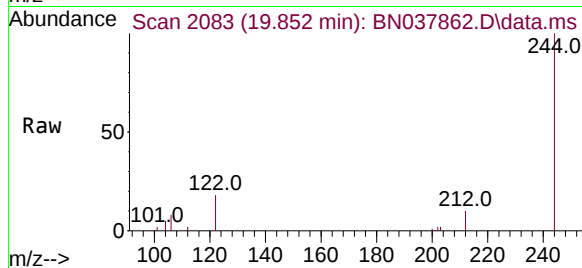




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

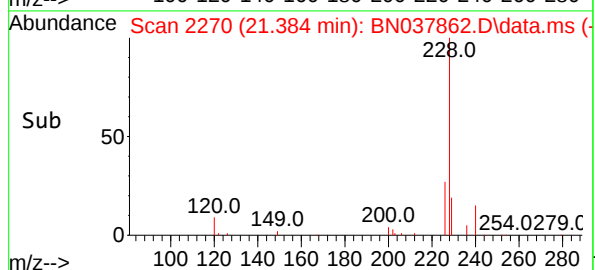
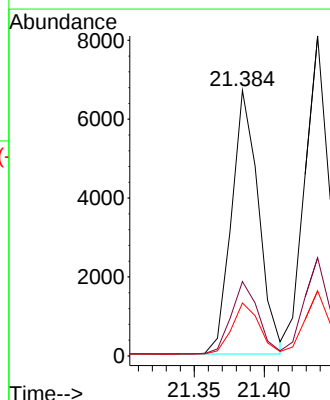
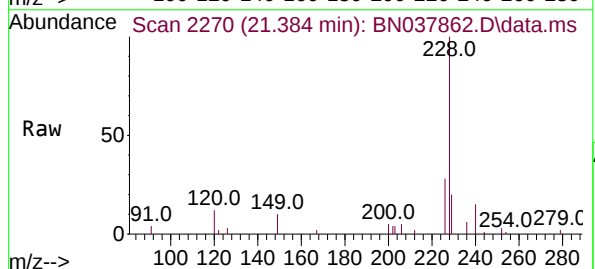
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

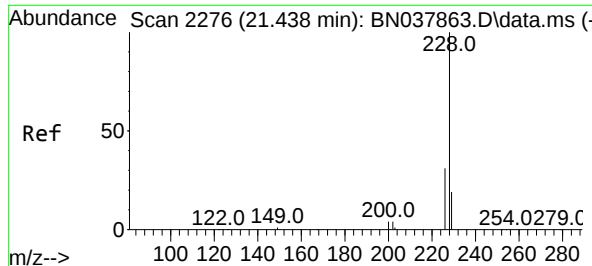
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	18.2	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.194 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.9	15.6	23.4





#33

Chrysene

Concen: 0.202 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

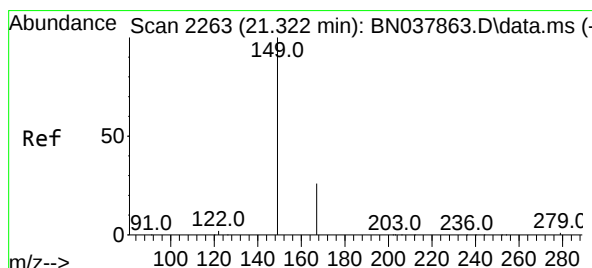
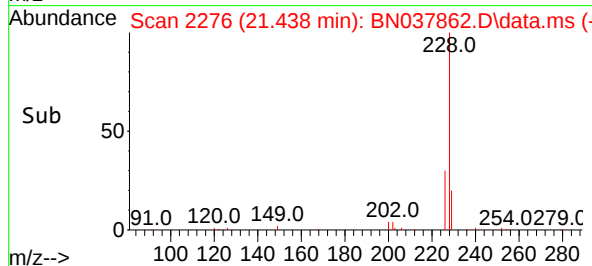
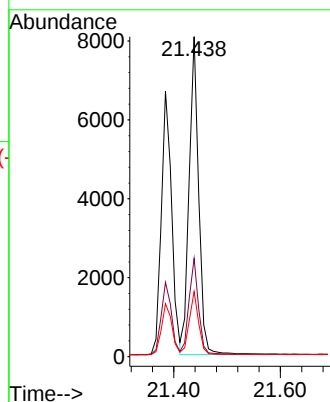
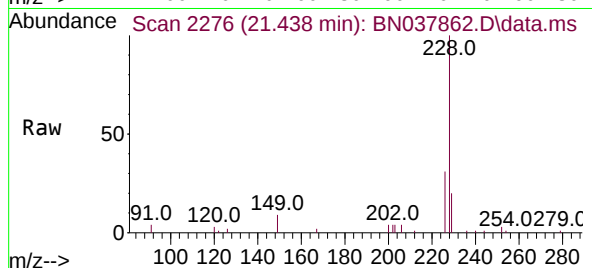
Tgt Ion:228 Resp: 10042

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 20.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.214 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

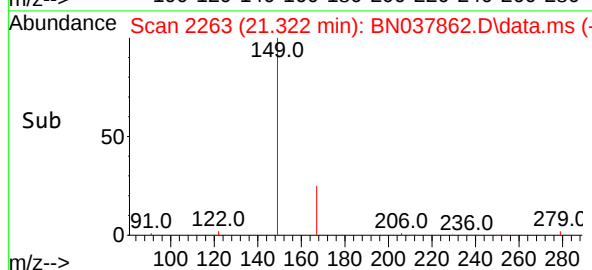
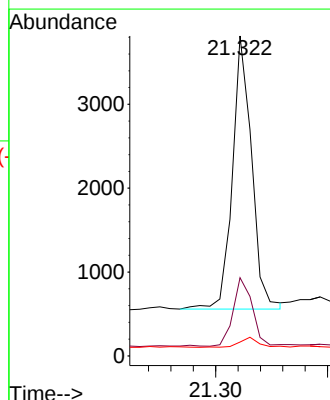
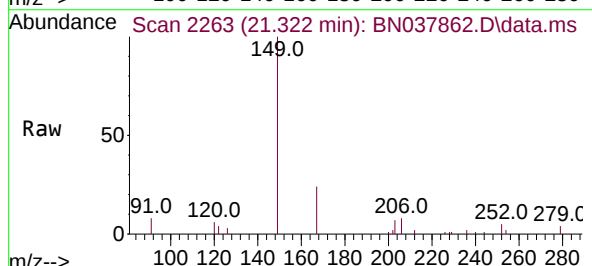
Tgt Ion:149 Resp: 3892

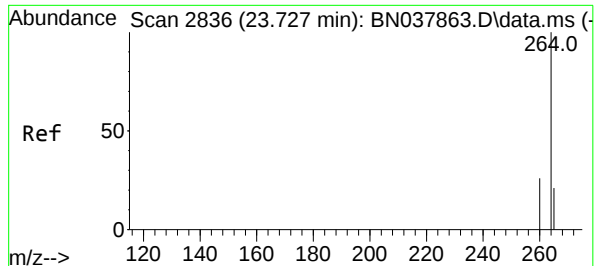
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

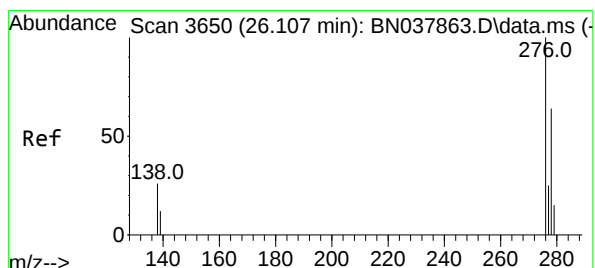
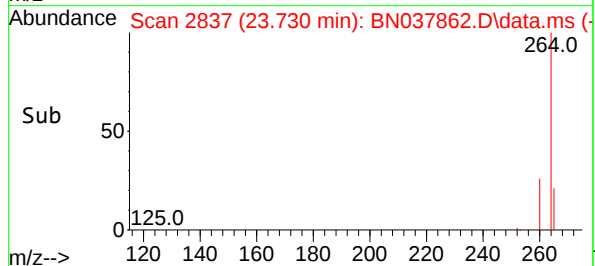
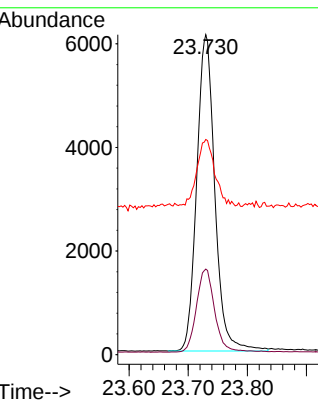
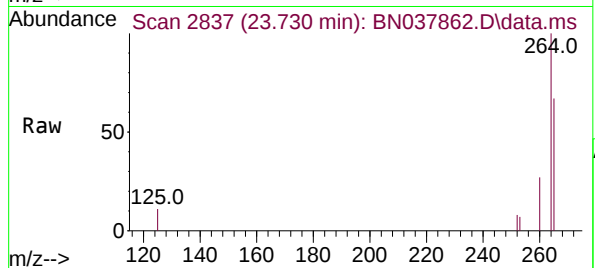
Tgt Ion:264 Resp: 12974

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 26.110 min Scan# 3651

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

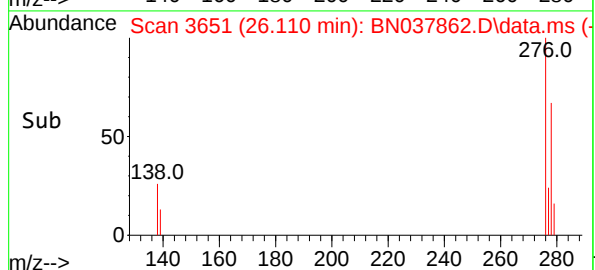
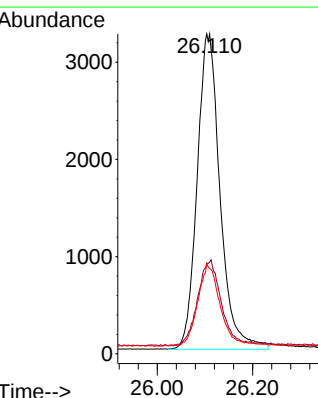
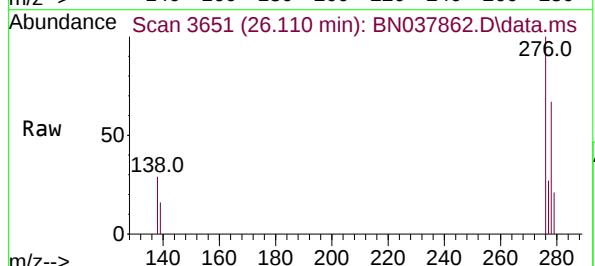
Tgt Ion:276 Resp: 10845

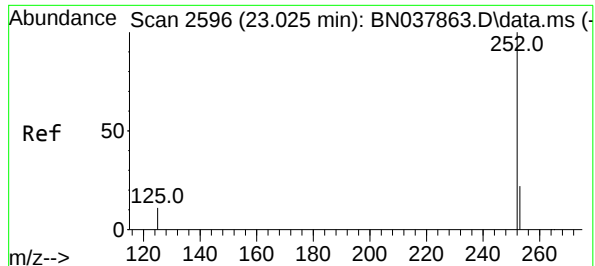
Ion Ratio Lower Upper

276 100

138 27.3 21.4 32.0

277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

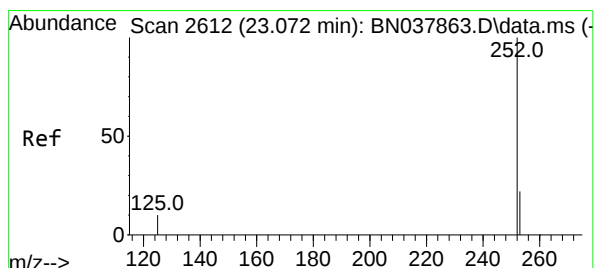
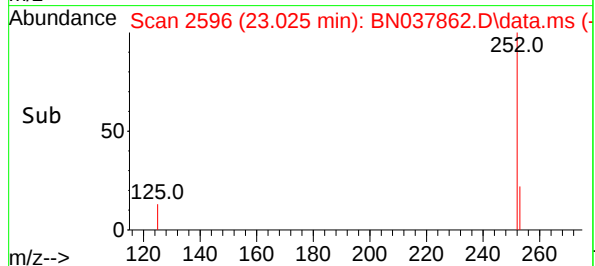
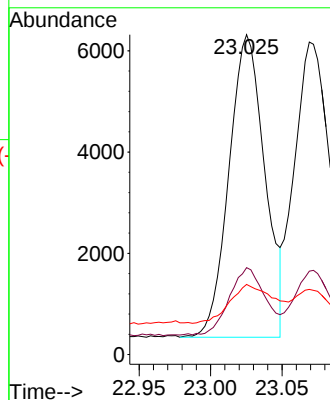
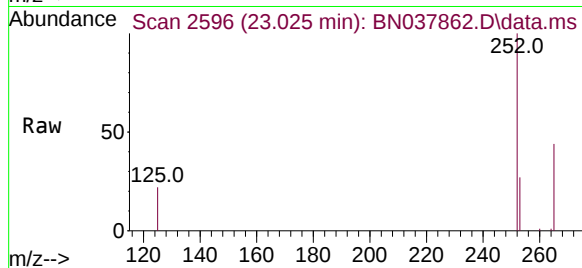
Tgt Ion:252 Resp: 10420

Ion Ratio Lower Upper

252 100

253 27.2 19.4 29.0

125 21.9 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

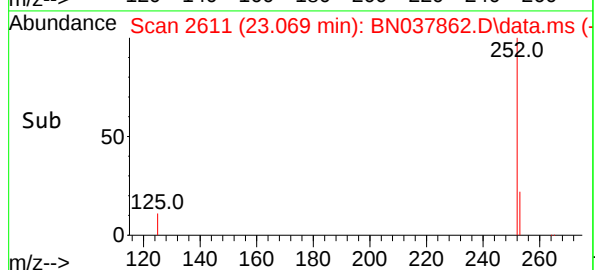
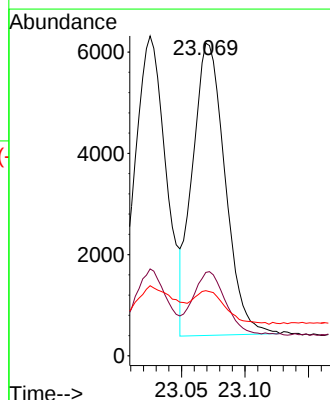
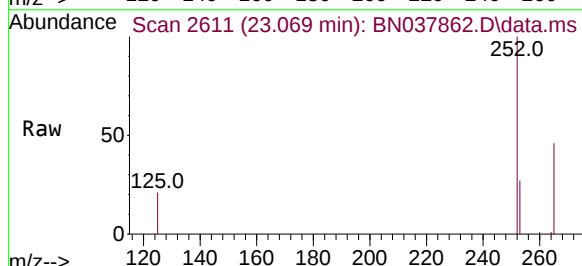
Tgt Ion:252 Resp: 10290

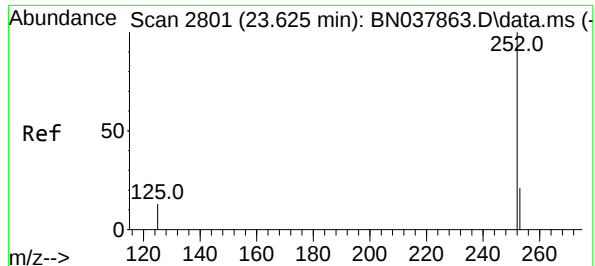
Ion Ratio Lower Upper

252 100

253 26.7 19.5 29.3

125 20.9 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

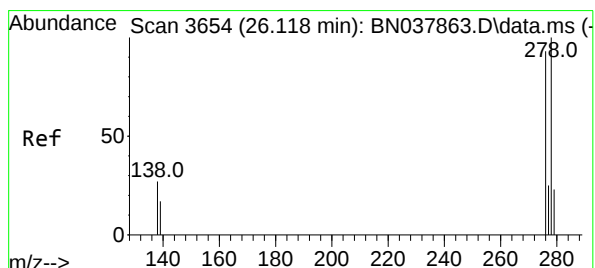
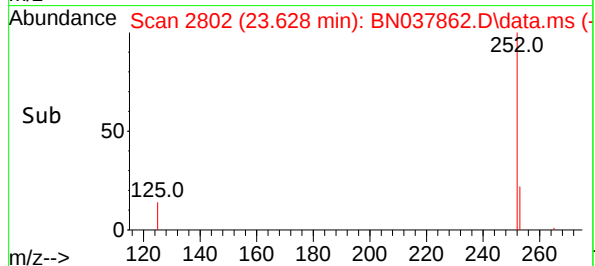
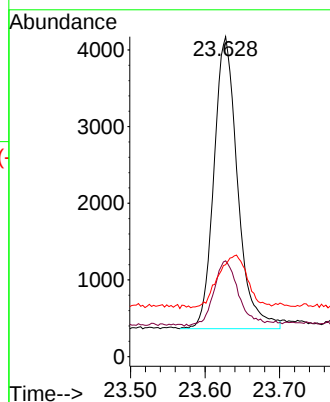
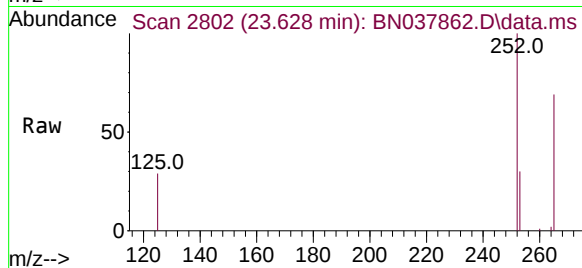
Tgt Ion:252 Resp: 8405

Ion Ratio Lower Upper

252 100

253 29.9 20.6 30.8

125 28.7 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.180 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

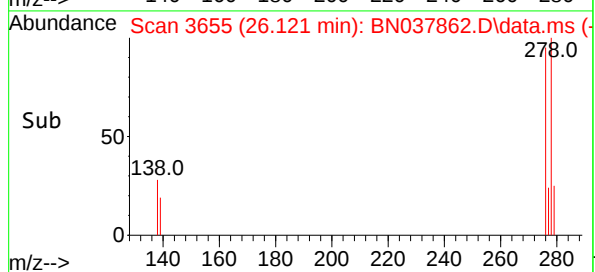
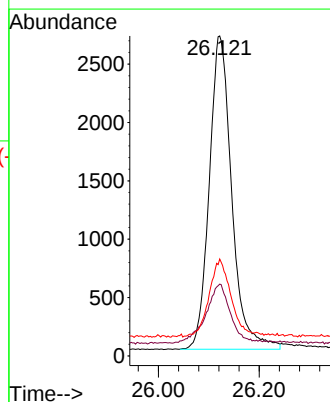
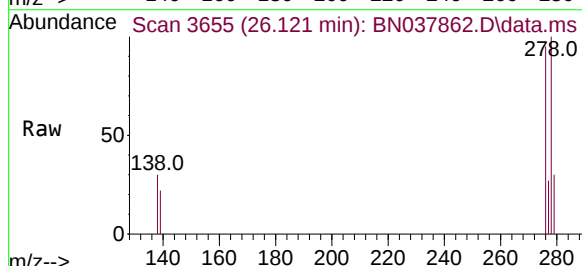
Tgt Ion:278 Resp: 8321

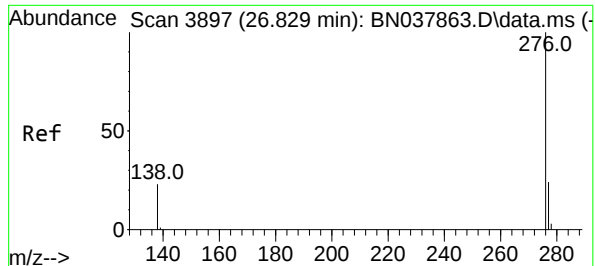
Ion Ratio Lower Upper

278 100

139 22.4 15.4 23.2

279 30.3 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037862.D

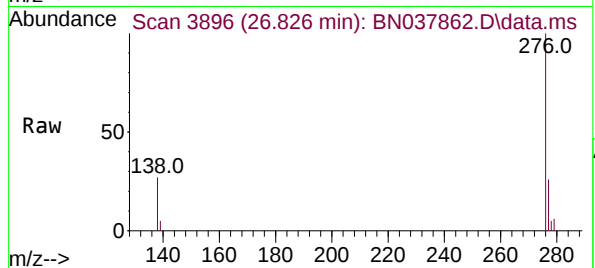
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



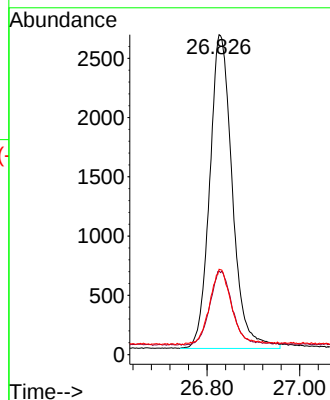
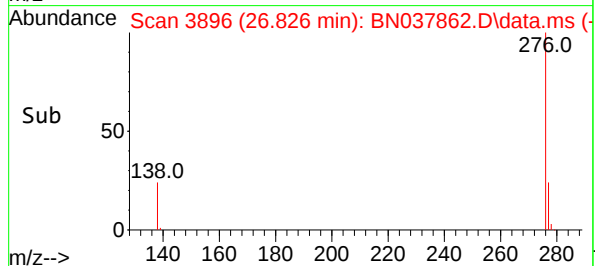
Tgt Ion:276 Resp: 8956

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037863.D
 Acq On : 23 Sep 2025 13:25
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

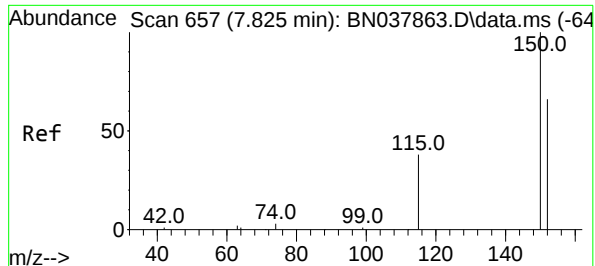
Quant Time: Sep 23 16:21:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13579	0.400	ng	0.00
35) Perylene-d12	23.727	264	12579	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4779	0.375	ng	0.00
5) Phenol-d6	6.973	99	6244	0.373	ng	0.00
8) Nitrobenzene-d5	8.971	82	4566	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	7877	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1117	0.336	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	12861	0.381	ng	0.00
27) Fluoranthene-d10	19.253	212	14130	0.352	ng	0.00
31) Terphenyl-d14	19.852	244	10222	0.378	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.297	88	2288	0.404	ng	100
3) n-Nitrosodimethylamine	3.601	42	2885	0.383	ng	100
6) bis(2-Chloroethyl)ether	7.240	93	6041	0.389	ng	100
9) Naphthalene	10.669	128	16547	0.380	ng	100
10) Hexachlorobutadiene	10.979	225	2874	0.387	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10542	0.371	ng	100
16) Acenaphthylene	14.195	152	13712	0.366	ng	100
17) Acenaphthene	14.537	154	9880	0.370	ng	100
18) Fluorene	15.523	166	11975	0.371	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	696	0.406	ng	100
21) 4-Bromophenyl-phenylether	16.416	248	3896	0.375	ng	100
22) Hexachlorobenzene	16.540	284	4854	0.385	ng	100
23) Atrazine	16.689	200	2739	0.346	ng	100
24) Pentachlorophenol	16.875	266	1466	0.339	ng	100
25) Phenanthrene	17.260	178	19609	0.374	ng	100
26) Anthracene	17.360	178	16310	0.358	ng	100
28) Fluoranthene	19.285	202	20902	0.362	ng	100
30) Pyrene	19.647	202	20652	0.385	ng	100
32) Benzo(a)anthracene	21.384	228	17571	0.370	ng	100
33) Chrysene	21.438	228	19852	0.387	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	6617	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	20858	0.363	ng	100
37) Benzo(b)fluoranthene	23.025	252	20638	0.380	ng	100
38) Benzo(k)fluoranthene	23.072	252	20090	0.368	ng	100
39) Benzo(a)pyrene	23.625	252	15479	0.361	ng	100
40) Dibenzo(a,h)anthracene	26.118	278	16392	0.365	ng	100
41) Benzo(g,h,i)perylene	26.829	276	17656	0.374	ng	100

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

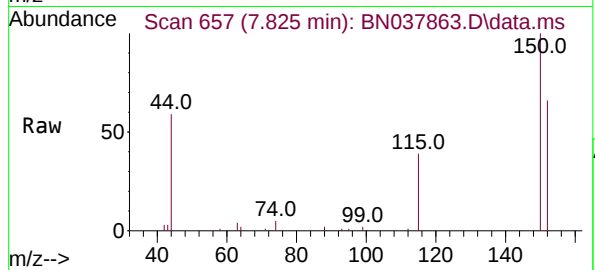
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

- 1
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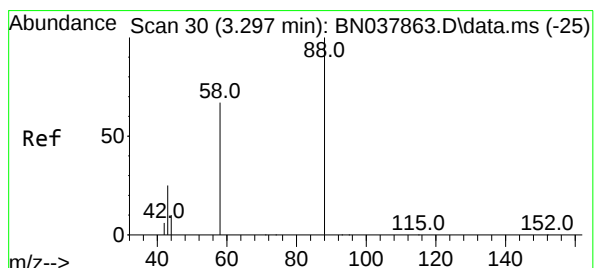
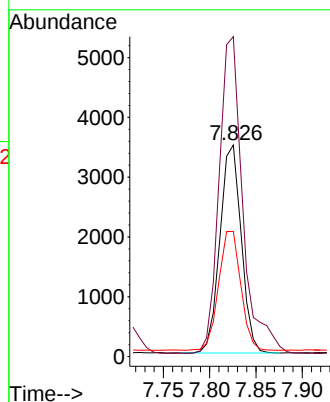
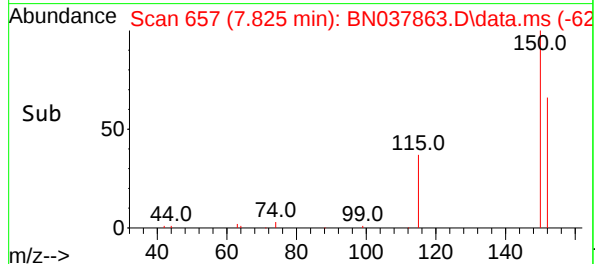


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

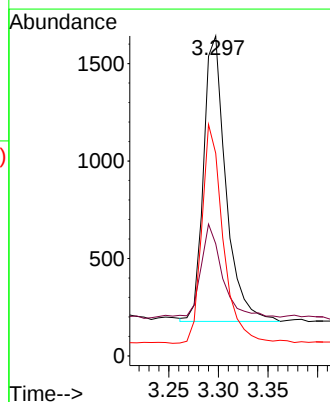
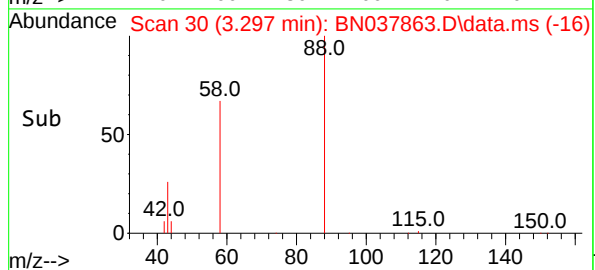
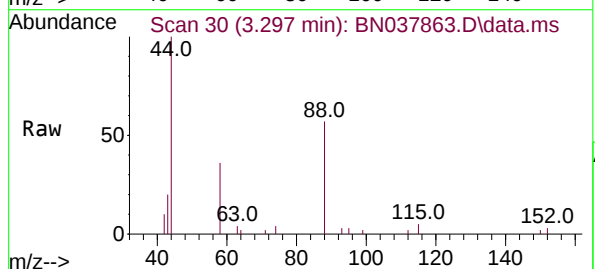


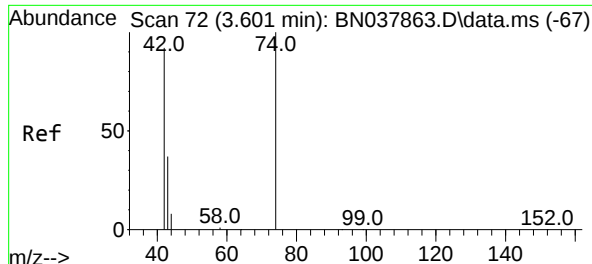
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 151.2 121.0 181.4
115 59.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 88 Resp: 2288
Ion Ratio Lower Upper
88 100
43 33.2 26.6 39.8
58 73.6 58.9 88.3

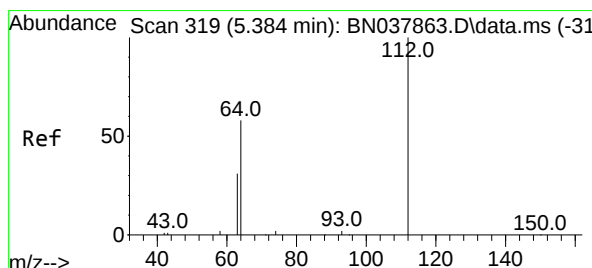
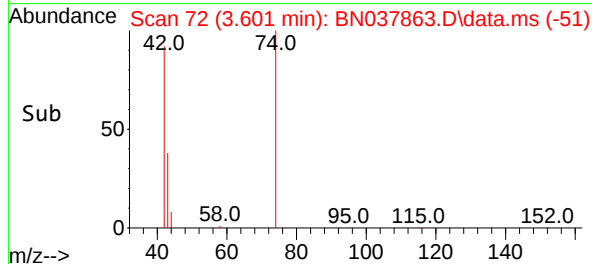
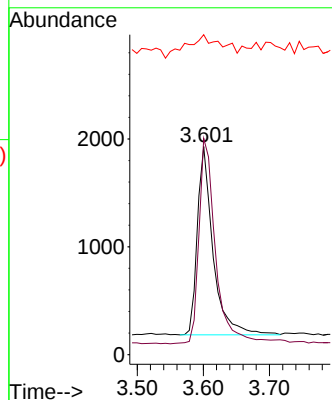
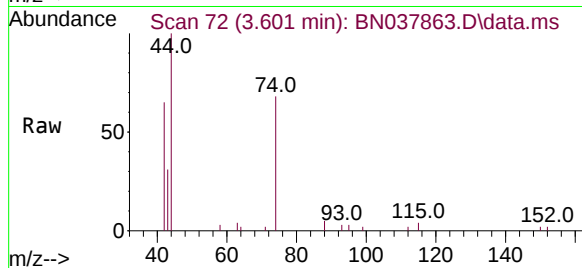




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

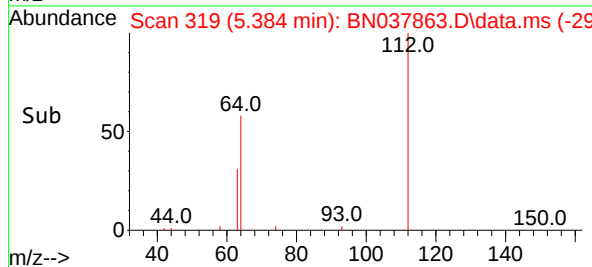
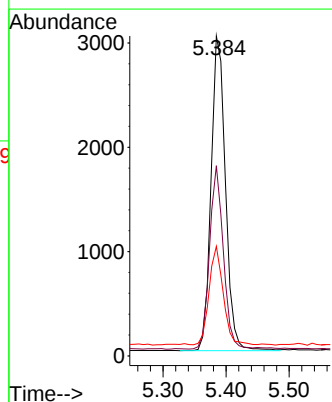
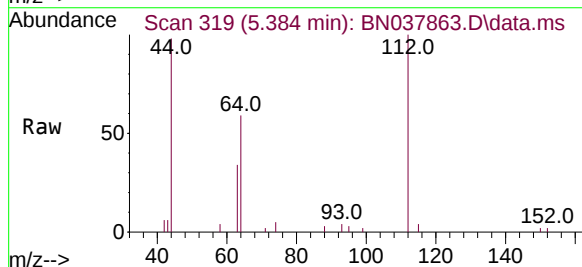
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

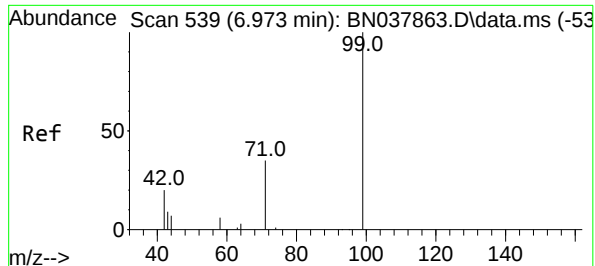
Tgt Ion:	42	Resp:	2885
Ion Ratio	Lower	Upper	
42	100		
74	116.7	93.4	140.0
44	27.8	22.2	33.4



#4
2-Fluorophenol
Concen: 0.375 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	112	Resp:	4779
Ion Ratio	Lower	Upper	
112	100		
64	55.7	44.6	66.8
63	31.1	24.9	37.3

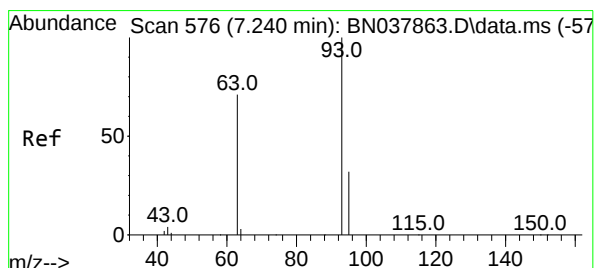
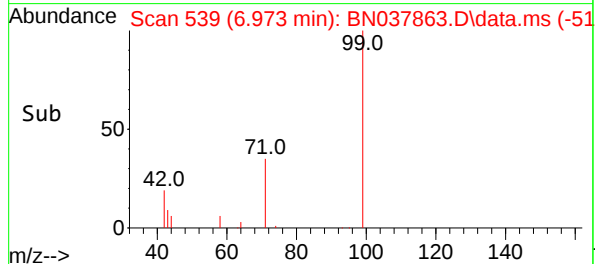
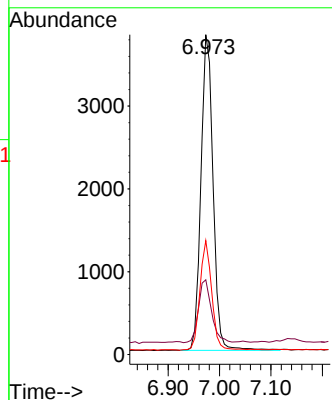
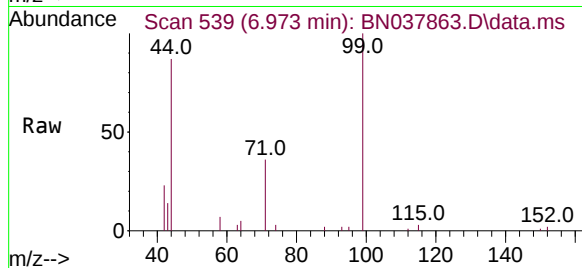




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

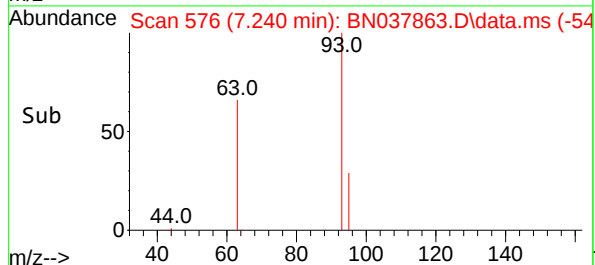
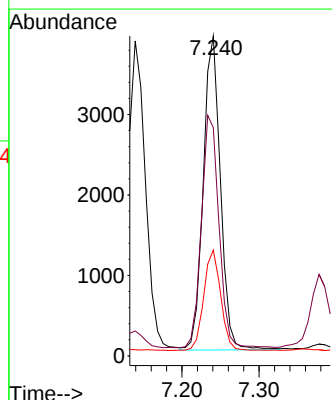
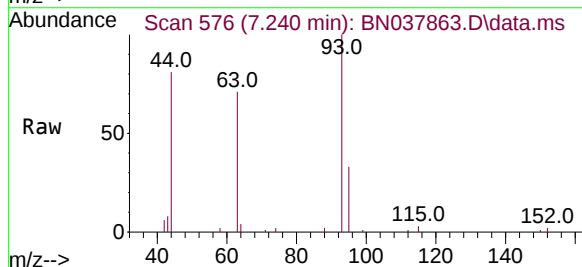
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

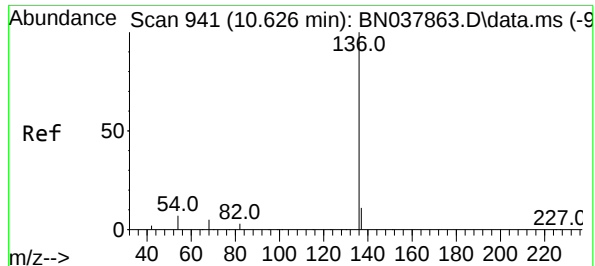
Tgt Ion:	99	Resp:	6244
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	93	Resp:	6041
Ion	Ratio	Lower	Upper
93	100		
63	75.1	60.1	90.1
95	31.8	25.4	38.2

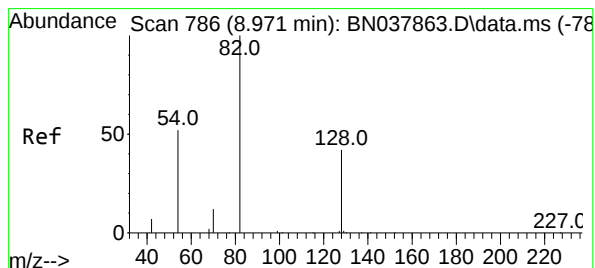
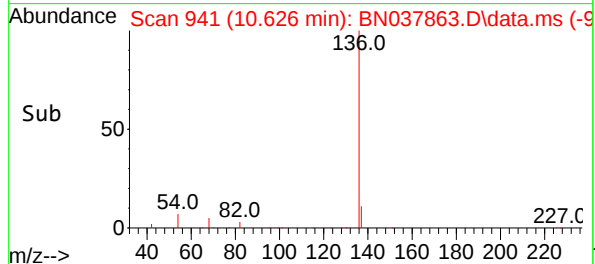
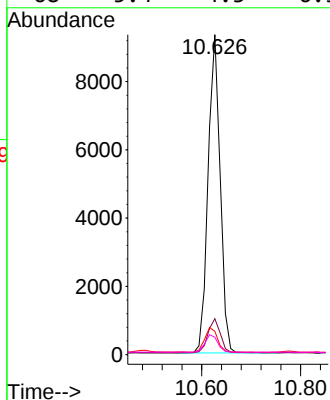
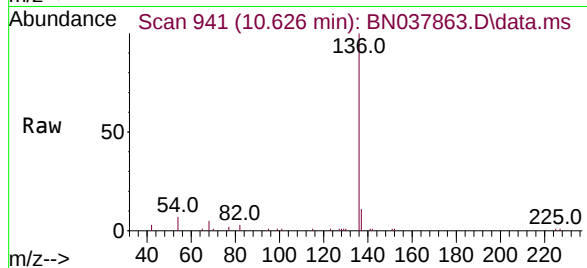




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

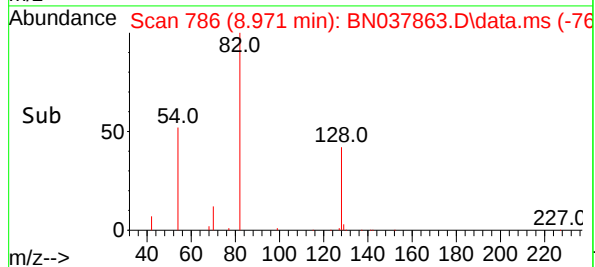
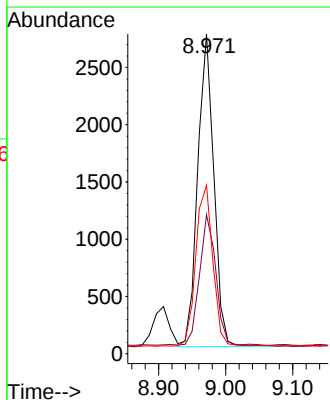
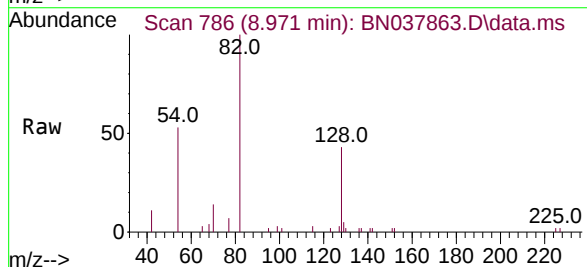
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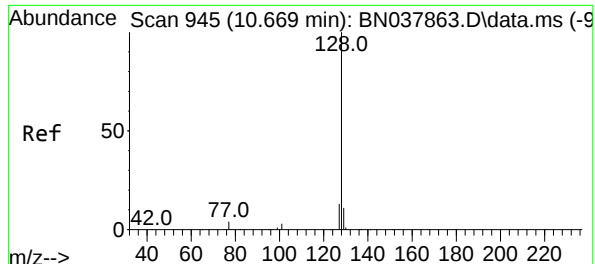
Tgt Ion:	136	Resp:	15792
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	82	Resp:	4566
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	52.7	42.2	63.2

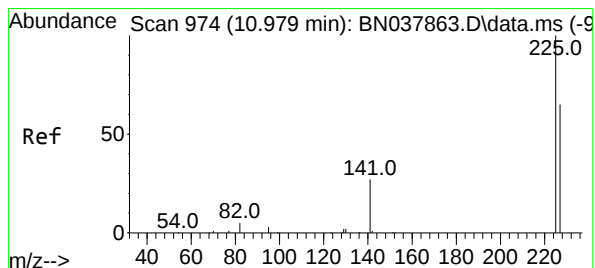
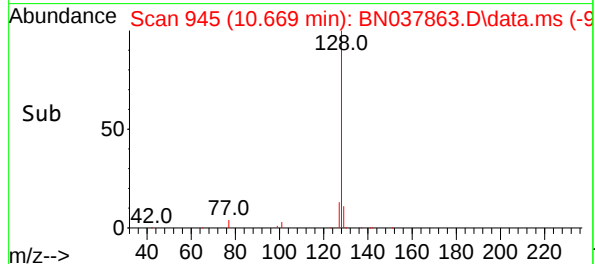
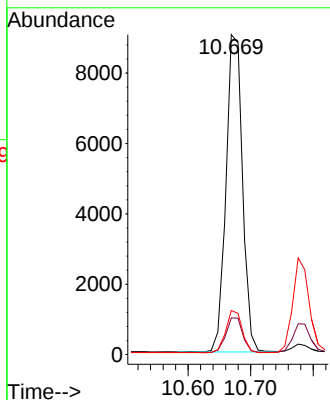
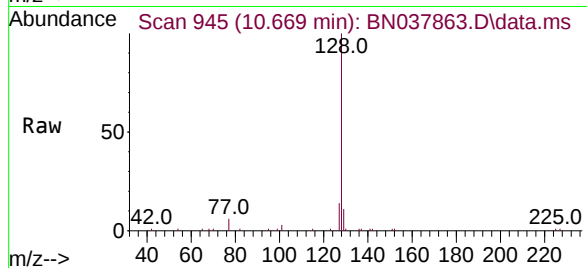




#9
Naphthalene
Concen: 0.380 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

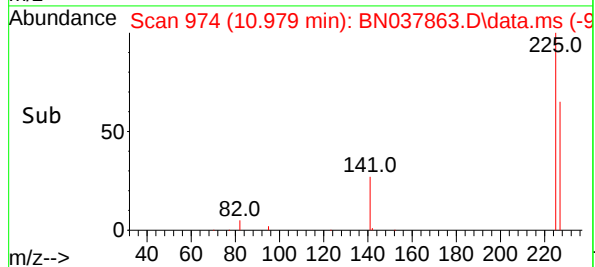
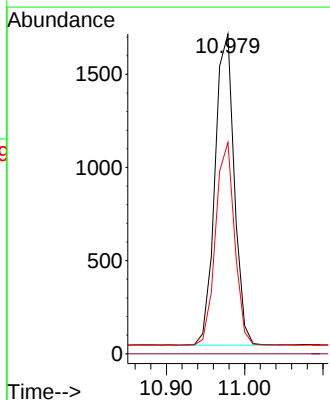
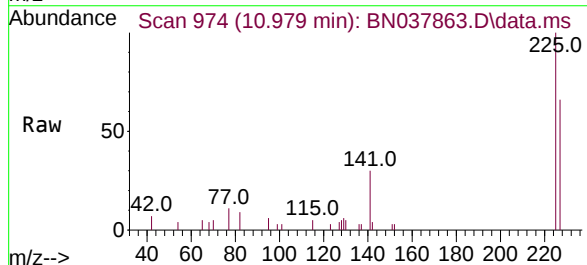
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

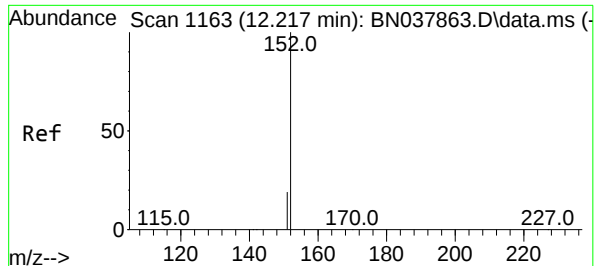
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.8	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.4	77.2

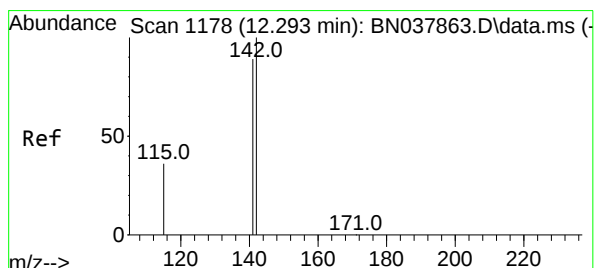
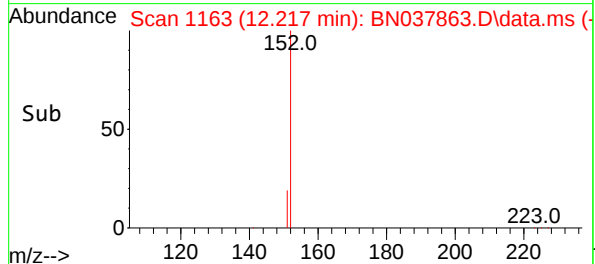
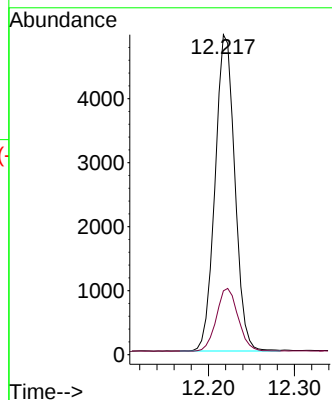
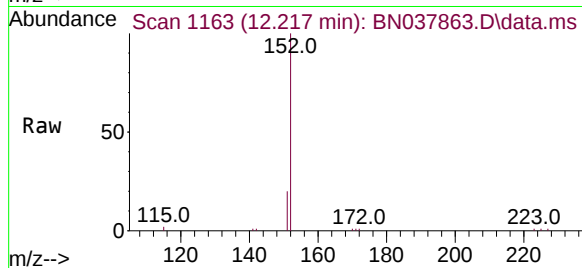




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

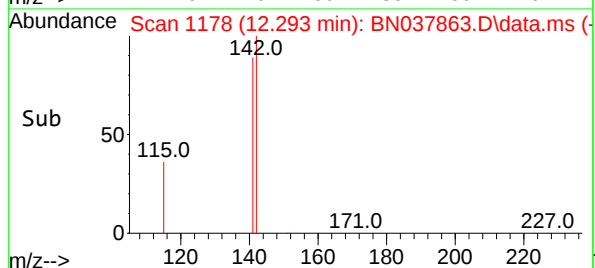
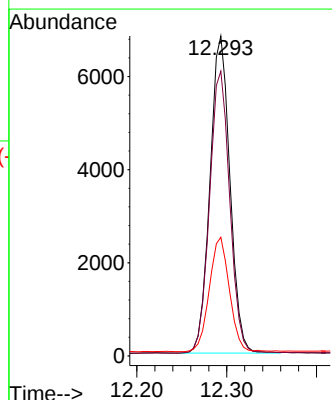
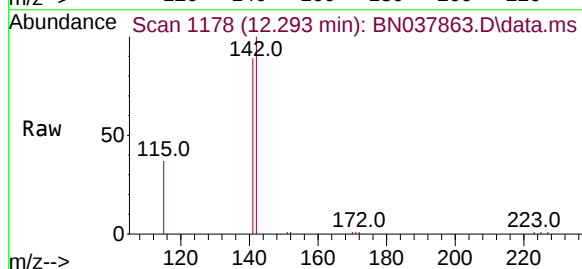
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BNA_N
ClientSampleId :
SSTDICCC0.4

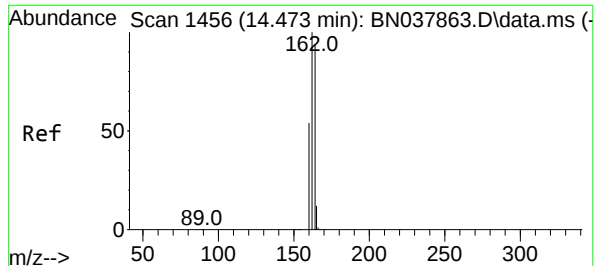
Tgt Ion:152 Resp: 7877
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:142 Resp: 10542
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 37.1 29.7 44.5

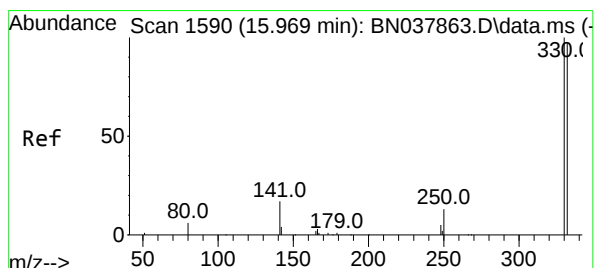
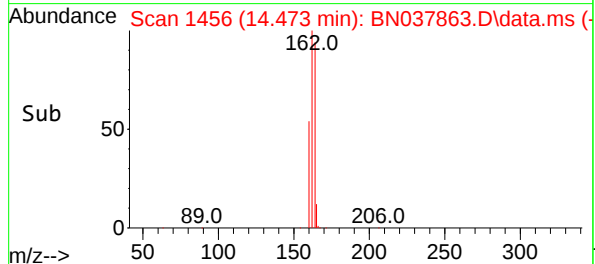
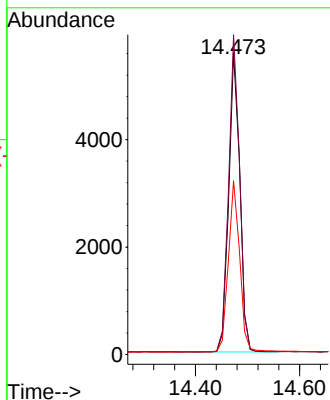
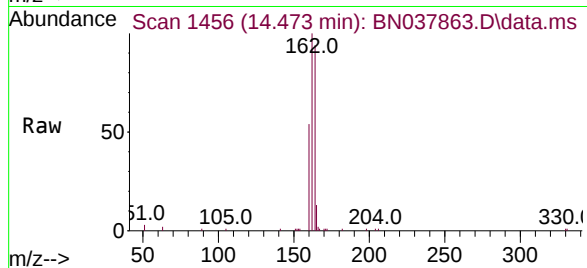




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

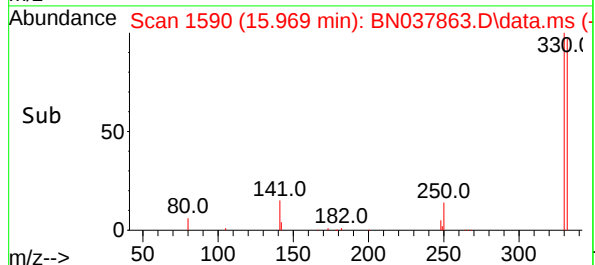
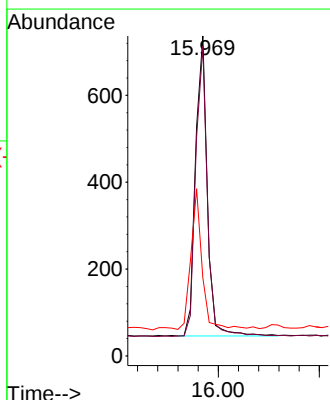
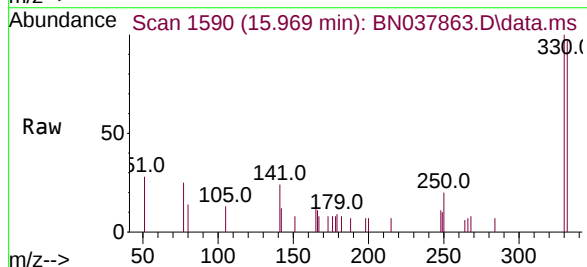
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

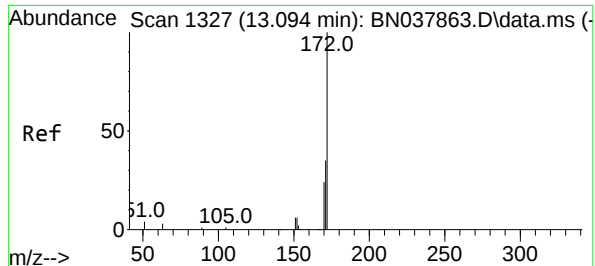
Tgt Ion:164 Resp: 8247
Ion Ratio Lower Upper
164 100
162 106.0 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:330 Resp: 1117
Ion Ratio Lower Upper
330 100
332 96.4 77.2 115.8
141 46.4 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 0.381 ng

RT: 13.094 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

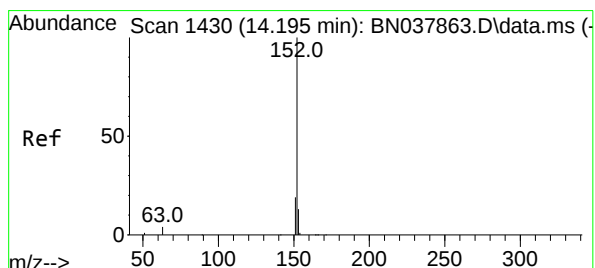
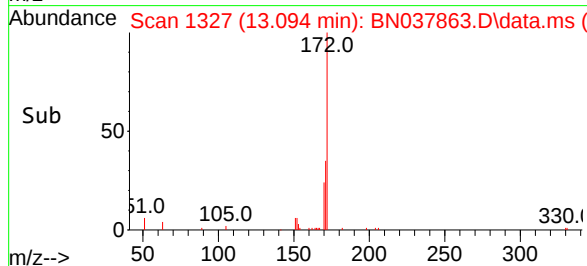
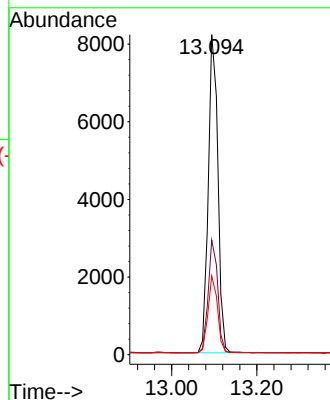
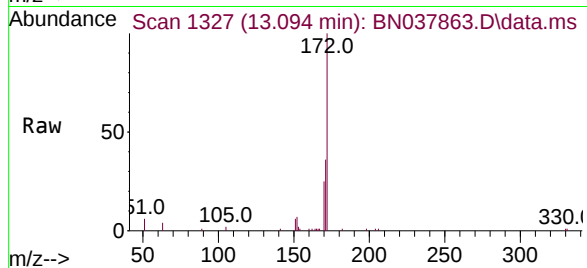
Tgt Ion:172 Resp: 12861

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.6 19.7 29.5



#16

Acenaphthylene

Concen: 0.366 ng

RT: 14.195 min Scan# 1430

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

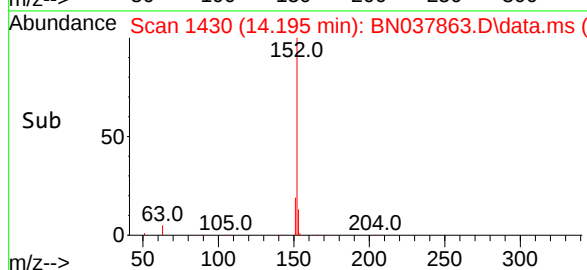
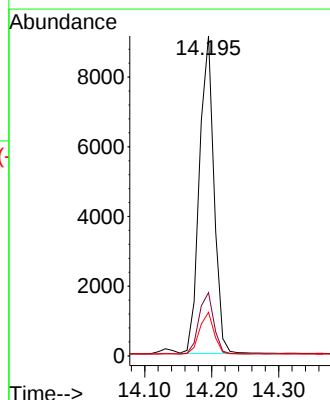
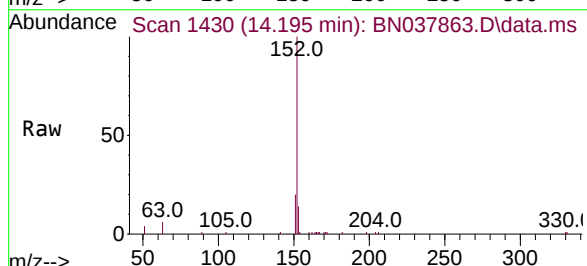
Tgt Ion:152 Resp: 13712

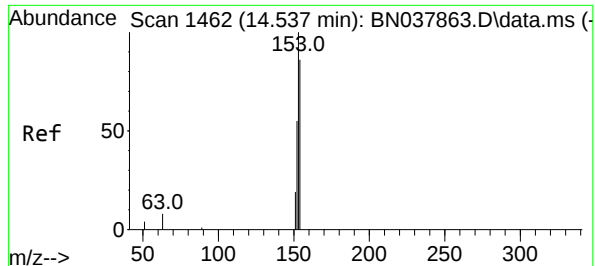
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7

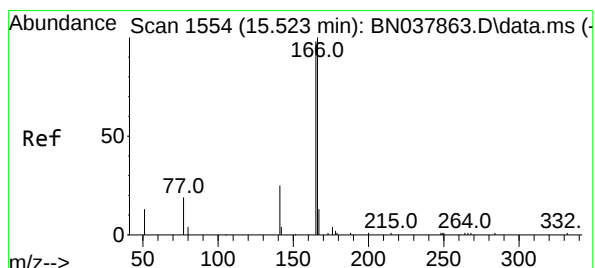
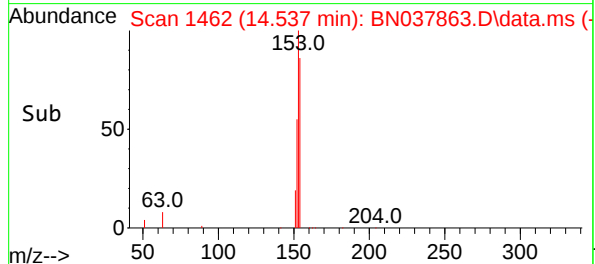
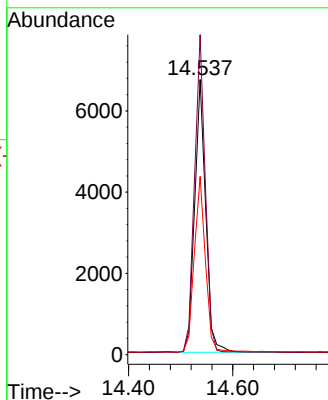
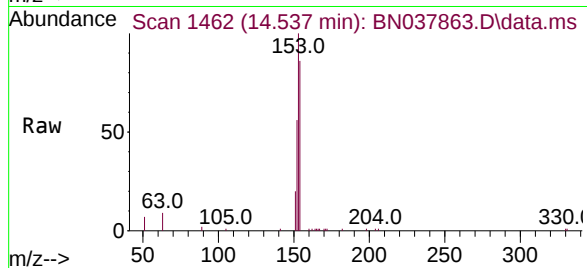




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

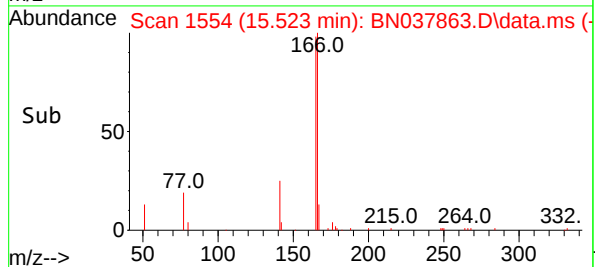
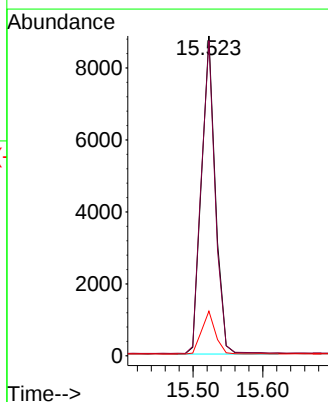
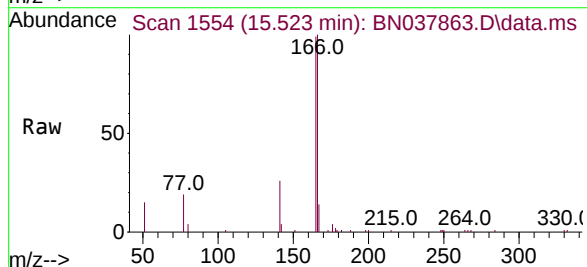
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

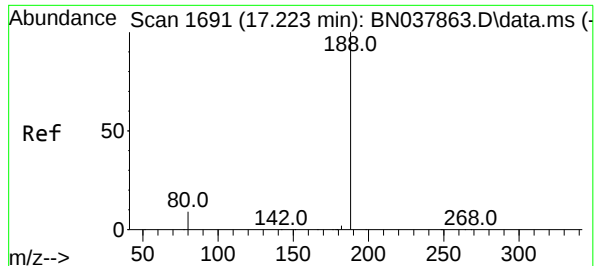
Tgt Ion	154	153	152
Resp:	9880	113.1	64.8
Ion Ratio	100	113.1	64.8
Lower		90.5	51.8
Upper		135.7	77.8



#18
Fluorene
Concen: 0.371 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	166	165	167
Resp:	11975	99.0	13.3
Ion Ratio	100	99.0	13.3
Lower		79.0	10.6
Upper		118.4	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

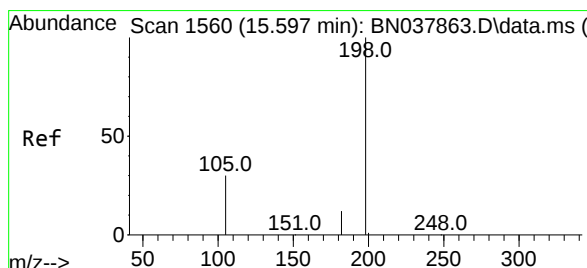
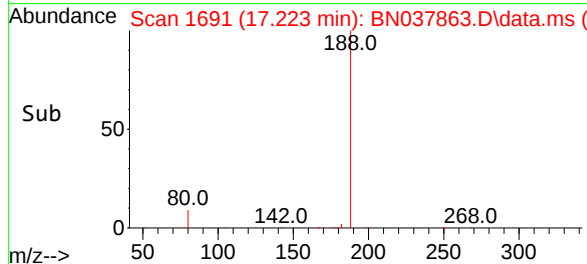
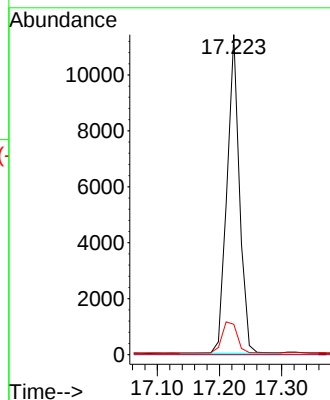
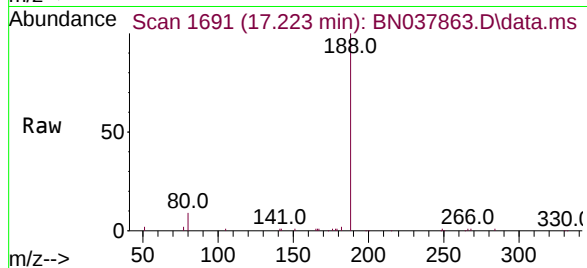
Tgt Ion:188 Resp: 15939

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.406 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

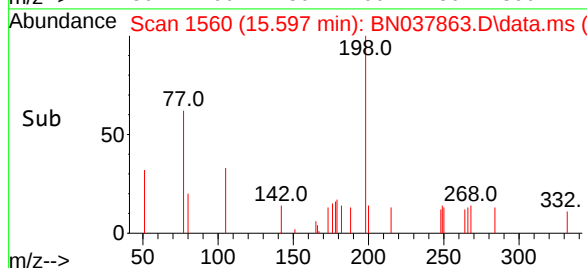
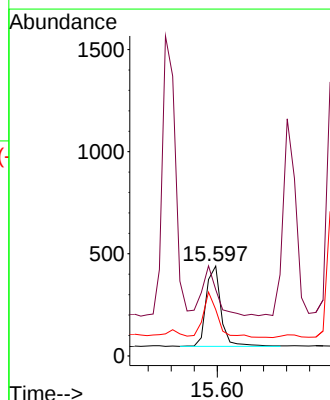
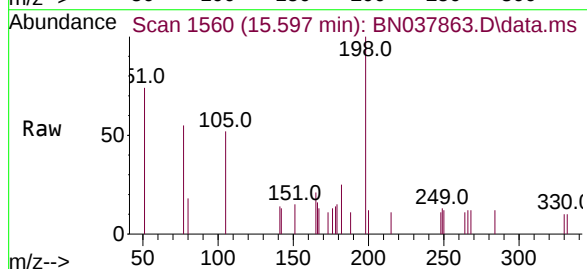
Tgt Ion:198 Resp: 696

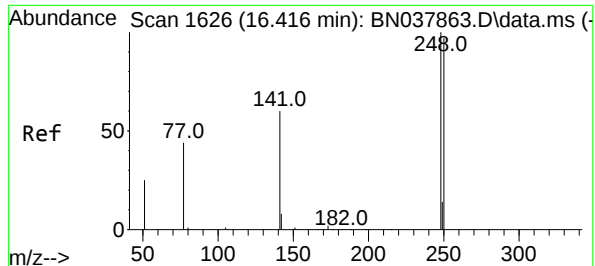
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

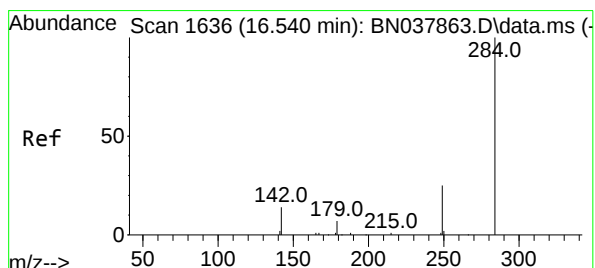
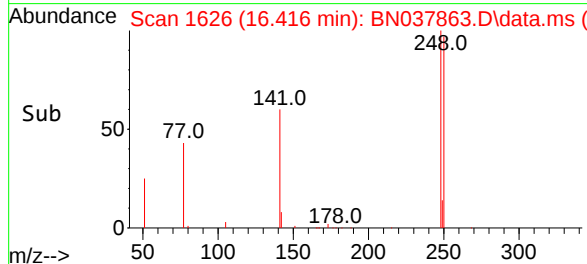
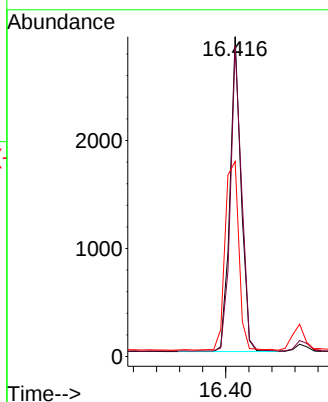
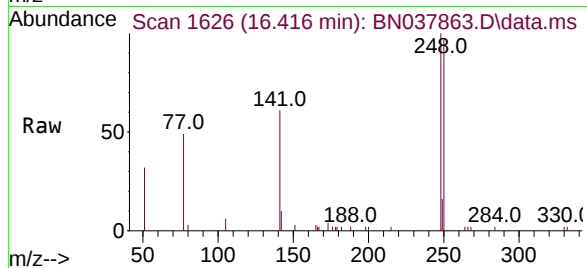




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

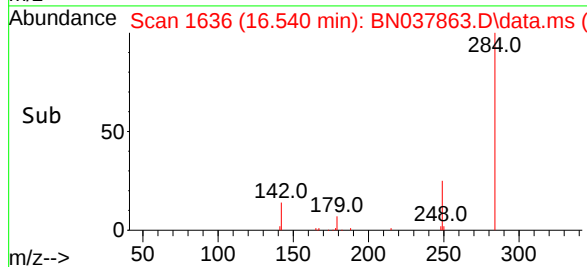
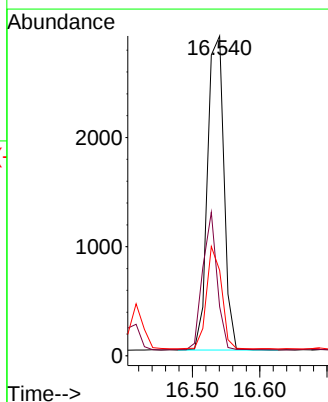
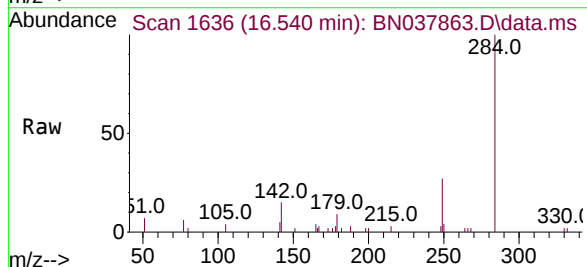
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

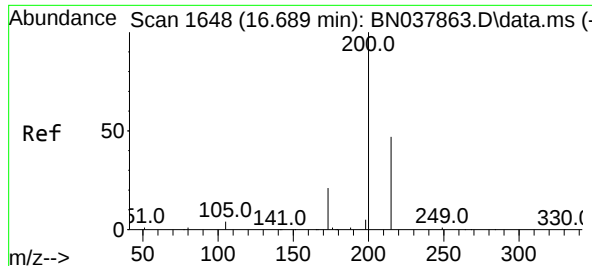
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.6	116.4
141	61.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.385 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.9	23.9	35.9

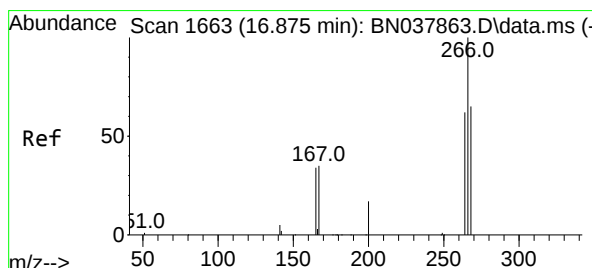
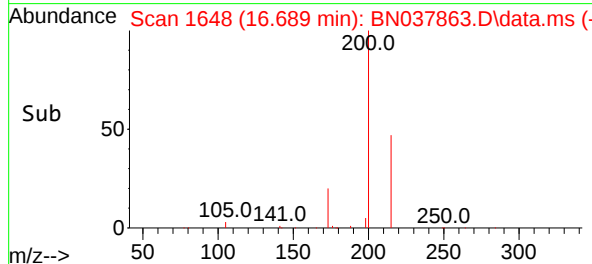
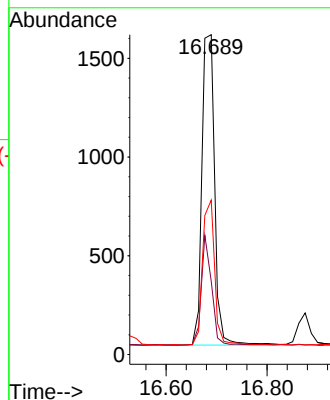
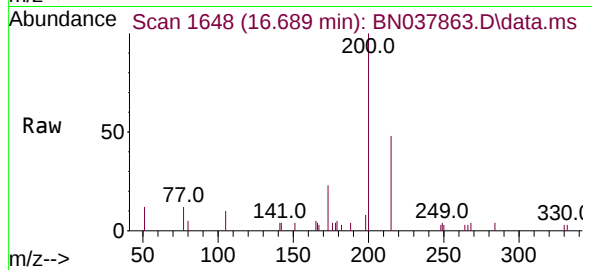




#23
Atrazine
Concen: 0.346 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

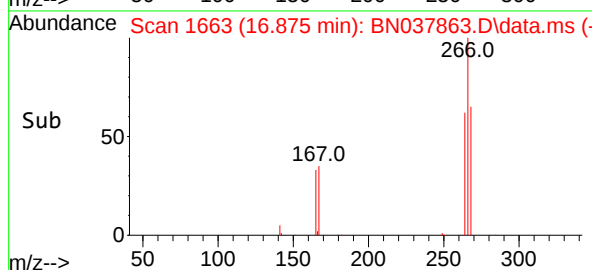
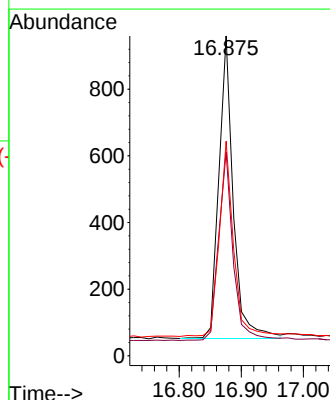
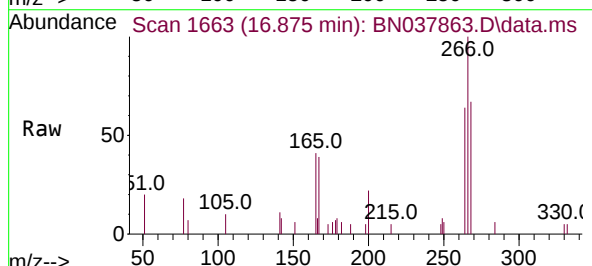
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

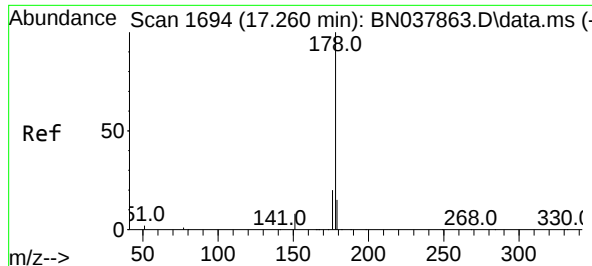
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.9	18.3	27.5
215	48.3	38.6	58.0



#24
Pentachlorophenol
Concen: 0.339 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.9	76.3
268	67.9	54.3	81.5





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

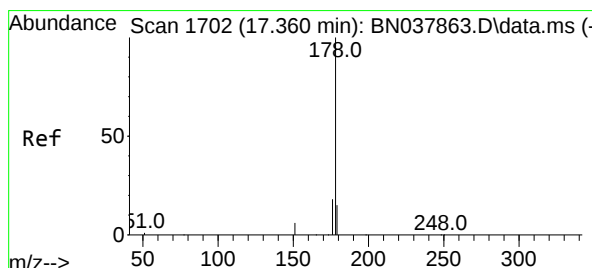
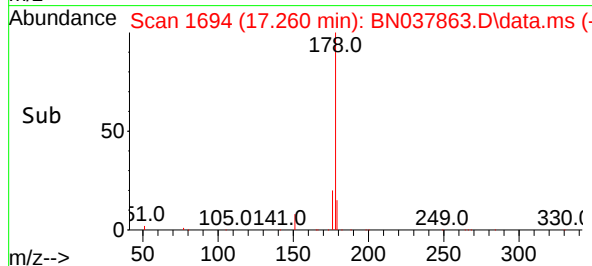
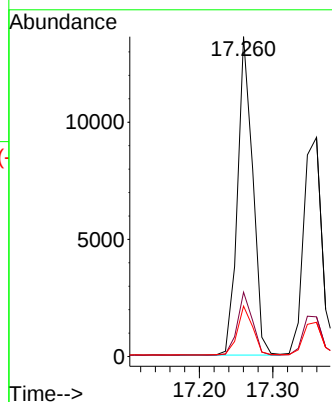
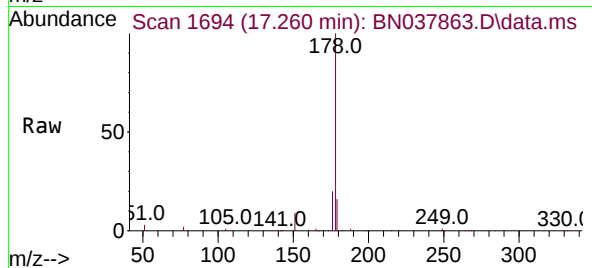
Tgt Ion:178 Resp: 19609

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.358 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

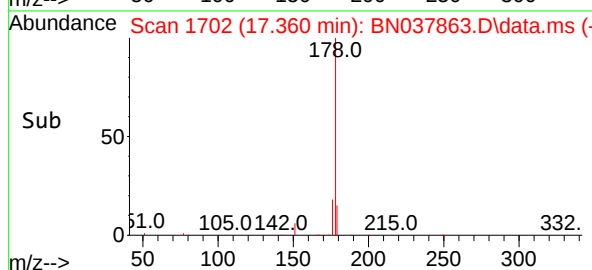
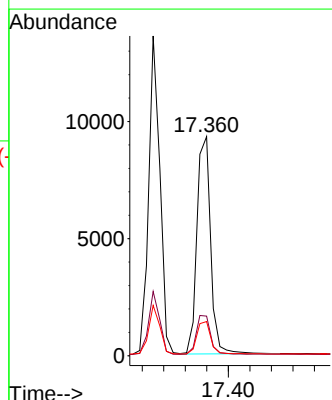
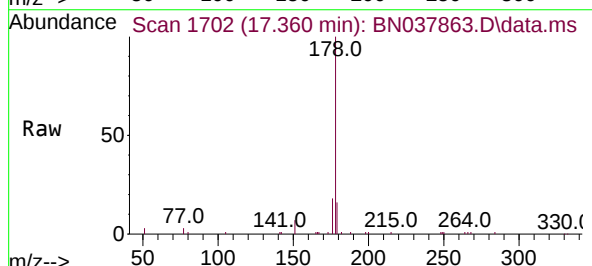
Tgt Ion:178 Resp: 16310

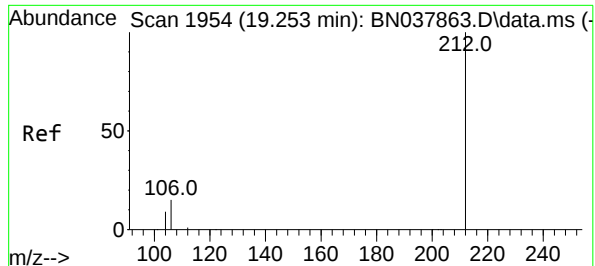
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

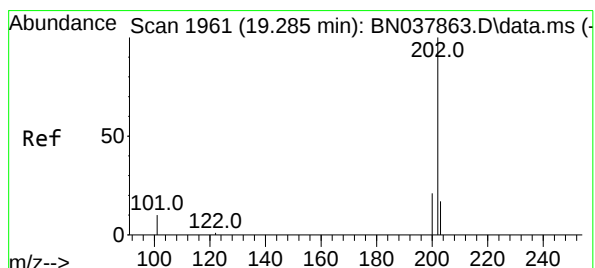
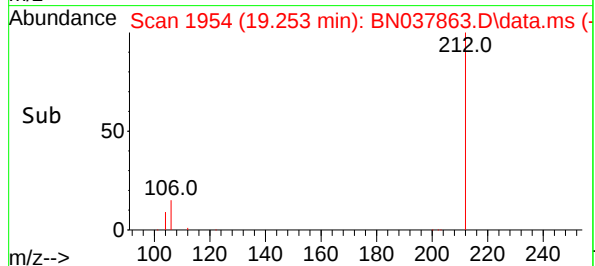
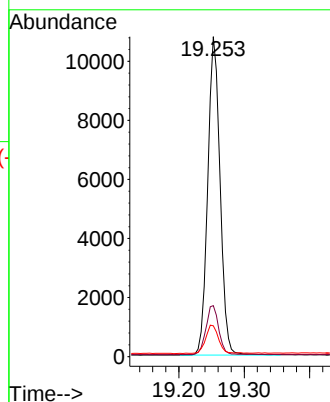
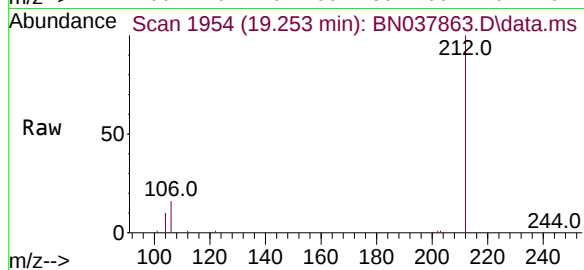
Tgt Ion:212 Resp: 14130

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

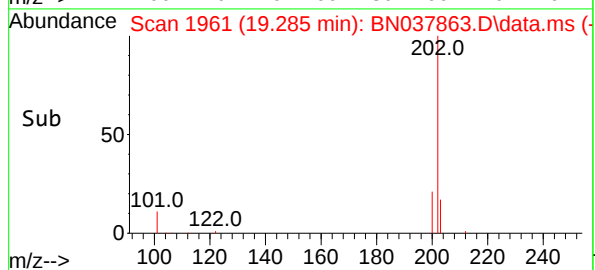
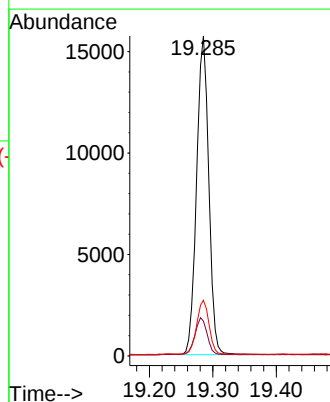
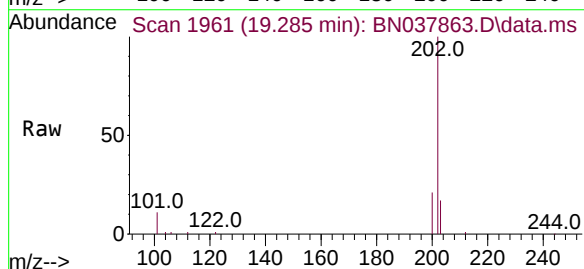
Tgt Ion:202 Resp: 20902

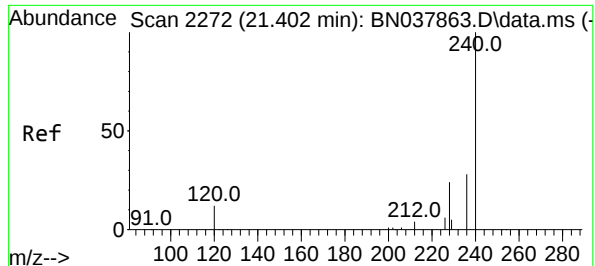
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

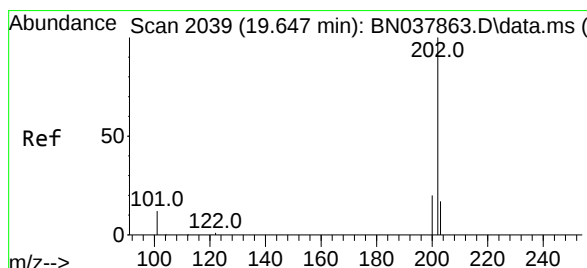
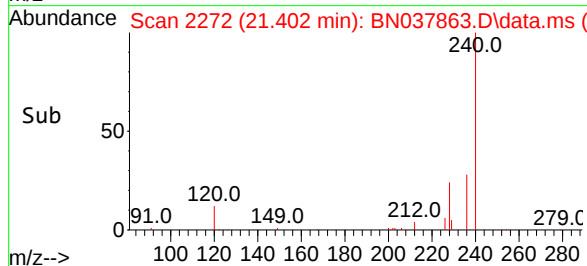
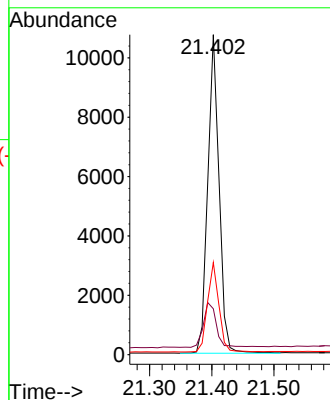
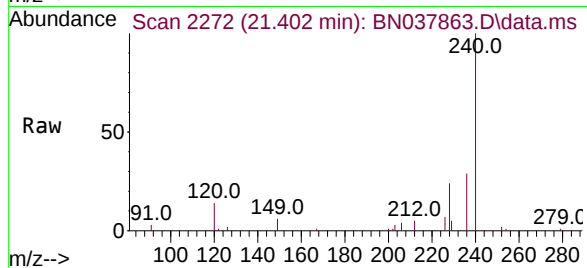
Tgt Ion:240 Resp: 13579

Ion Ratio Lower Upper

240 100

120 14.3 11.4 17.2

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.385 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

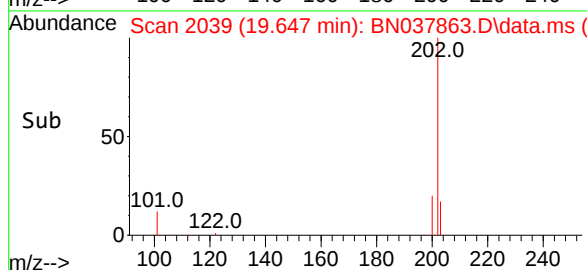
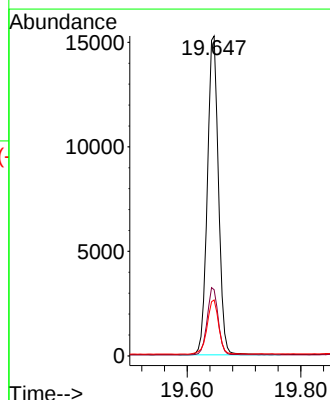
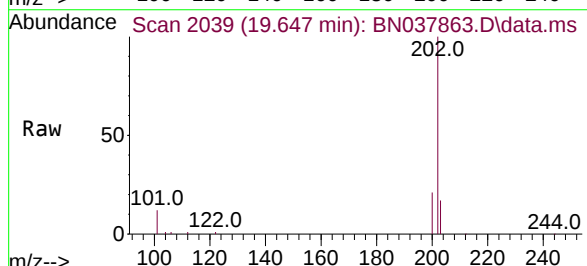
Tgt Ion:202 Resp: 20652

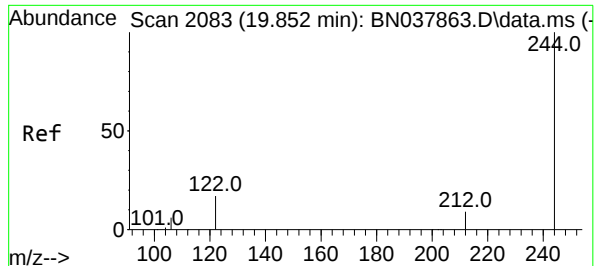
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4





#31

Terphenyl-d14

Concen: 0.378 ng

RT: 19.852 min Scan# 2083

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

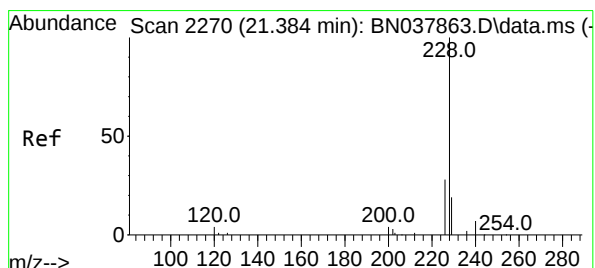
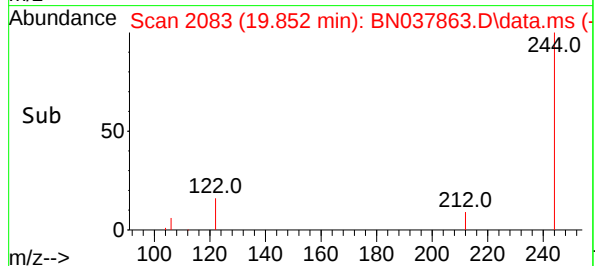
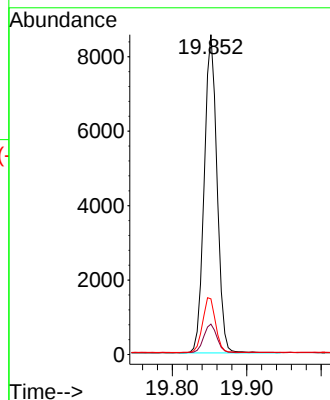
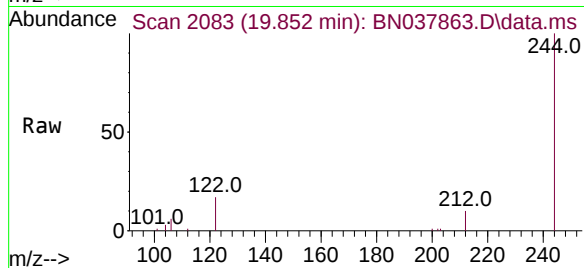
Tgt Ion:244 Resp: 10222

Ion Ratio Lower Upper

244 100

212 9.5 7.6 11.4

122 17.4 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.370 ng

RT: 21.384 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

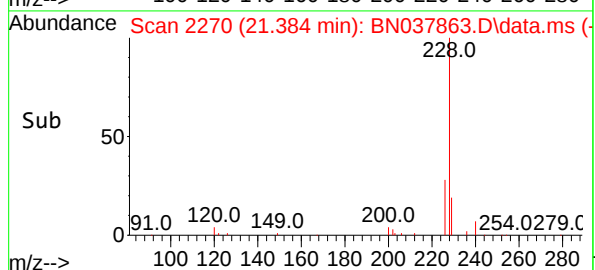
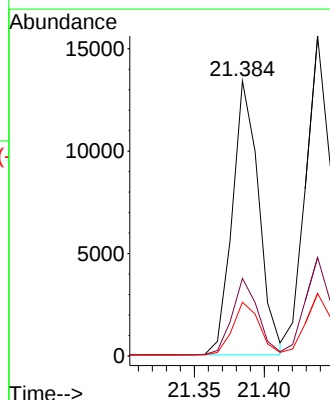
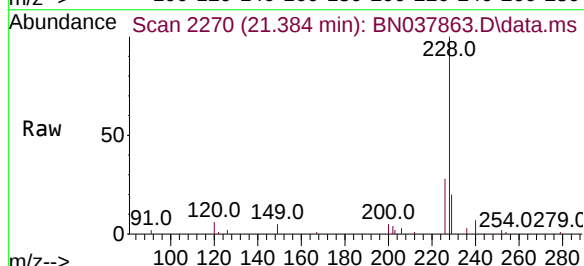
Tgt Ion:228 Resp: 17571

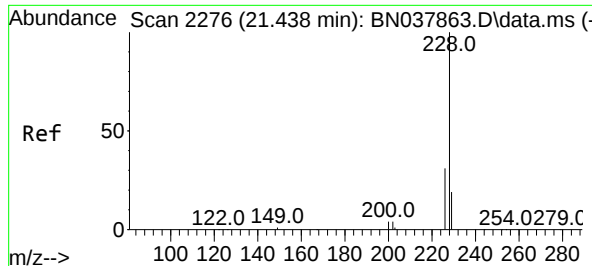
Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

229 19.5 15.6 23.4





#33

Chrysene

Concen: 0.387 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

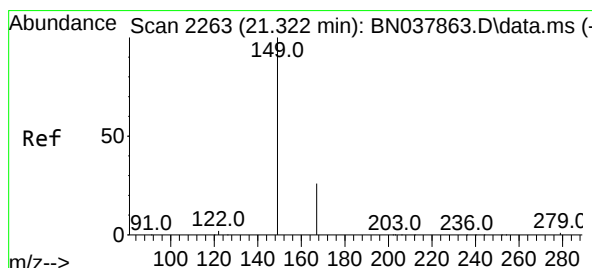
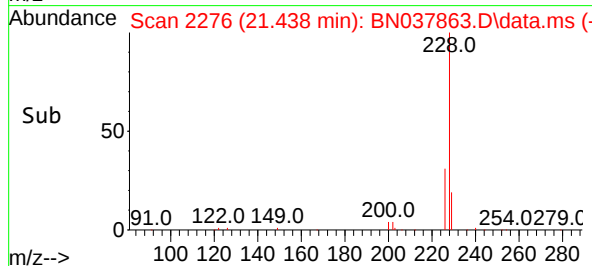
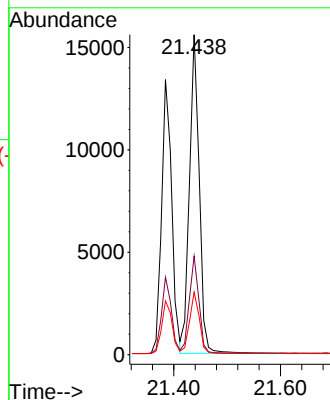
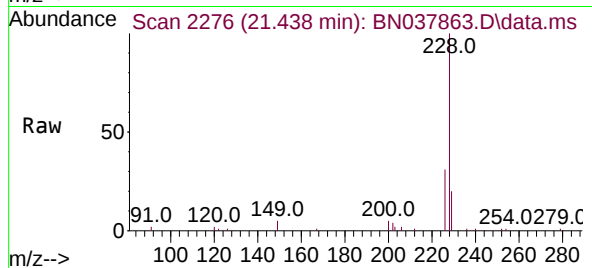
Tgt Ion:228 Resp: 19852

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

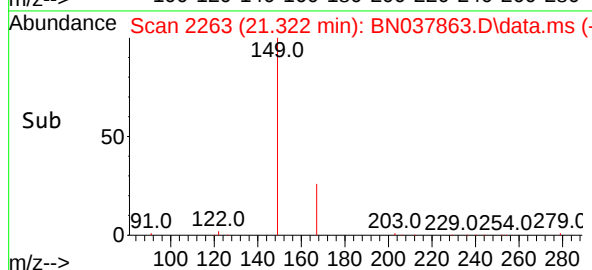
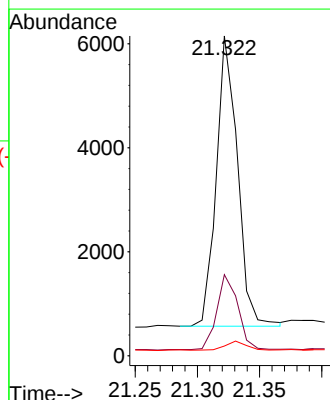
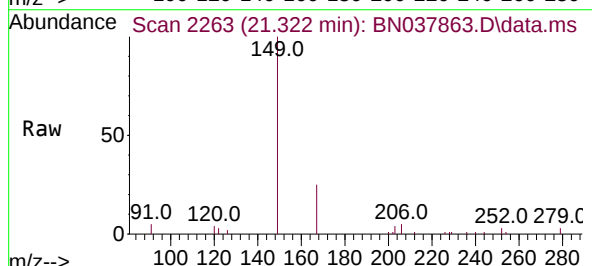
Tgt Ion:149 Resp: 6617

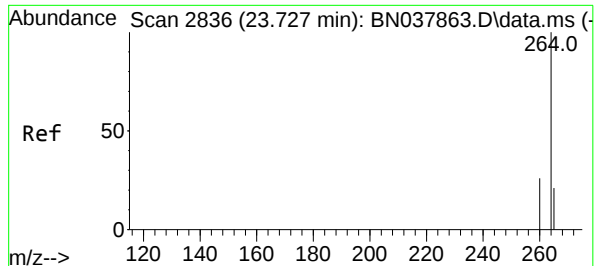
Ion Ratio Lower Upper

149 100

167 26.2 20.4 30.6

279 3.1 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.727 min Scan# 2836

Delta R.T. 0.000 min

Lab File: BN037863.D

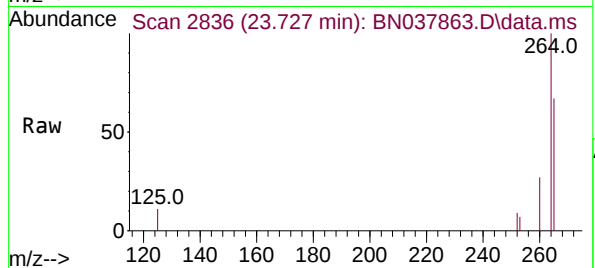
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



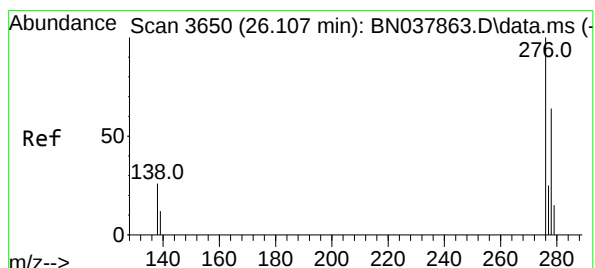
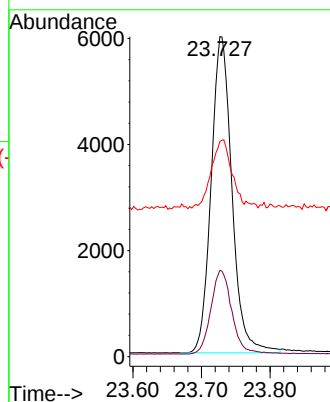
Tgt Ion:264 Resp: 12579

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.363 ng

RT: 26.107 min Scan# 3650

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

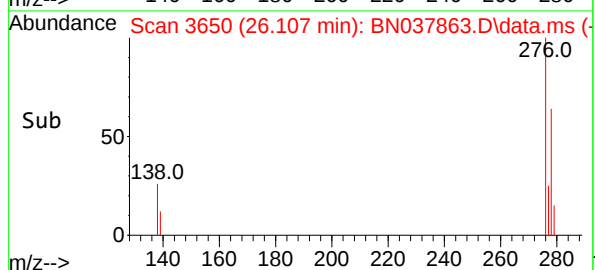
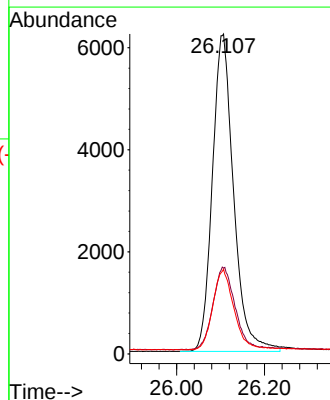
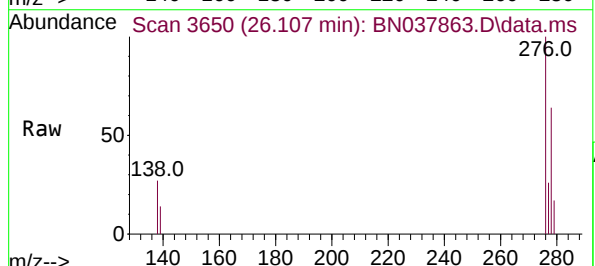
Tgt Ion:276 Resp: 20858

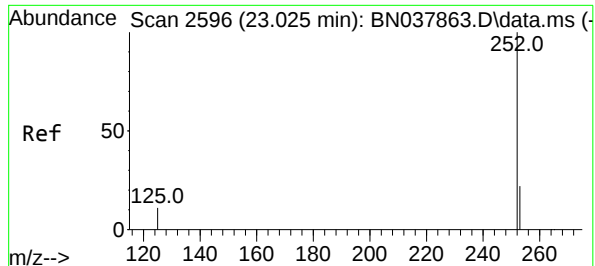
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.4 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

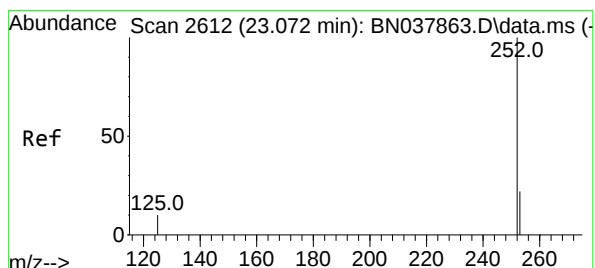
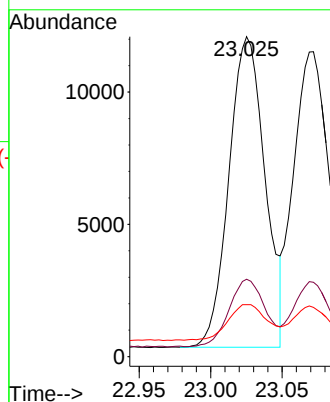
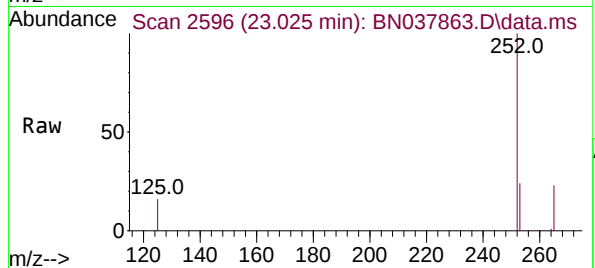
Tgt Ion:252 Resp: 20638

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 16.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

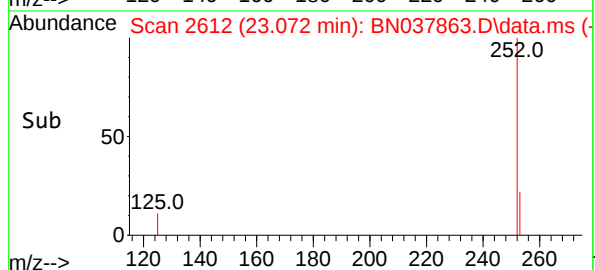
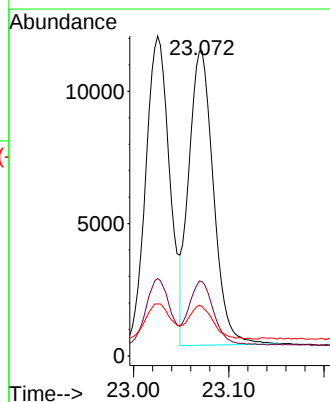
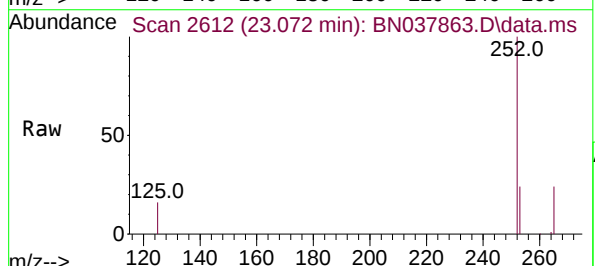
Tgt Ion:252 Resp: 20090

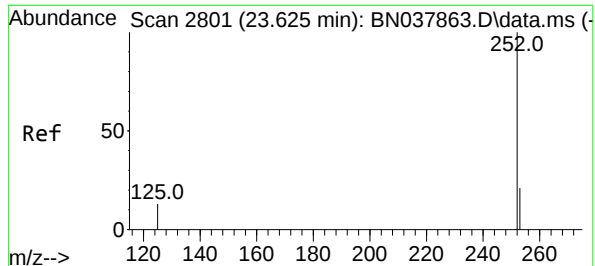
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

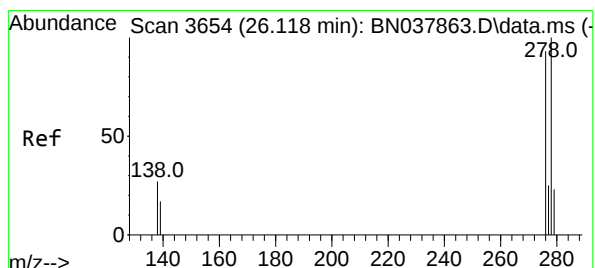
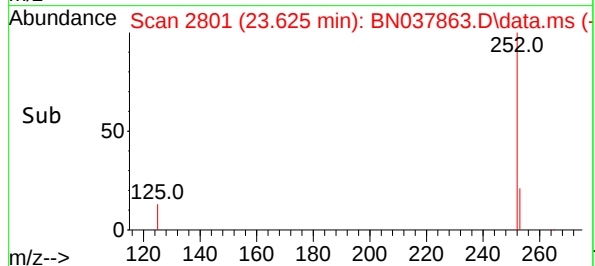
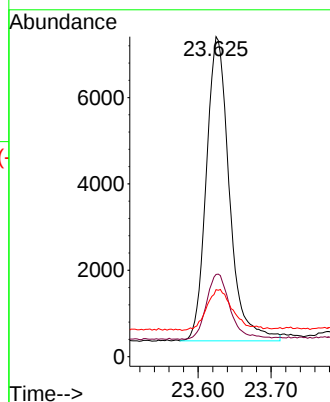
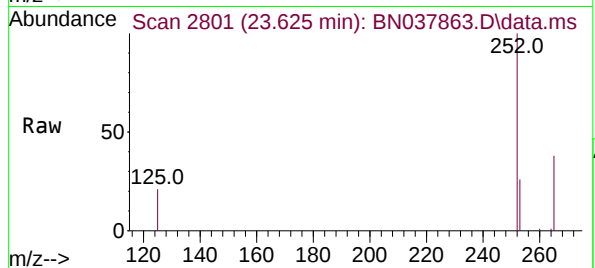
Tgt Ion:252 Resp: 15479

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

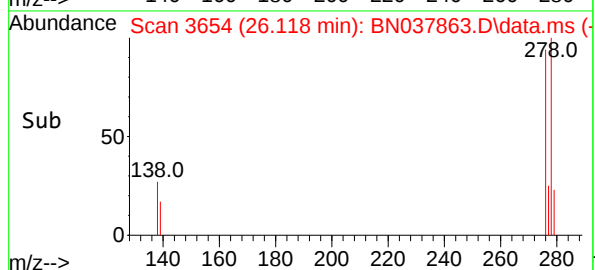
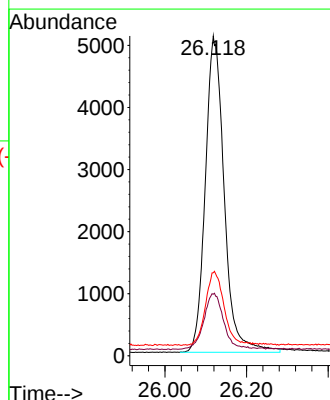
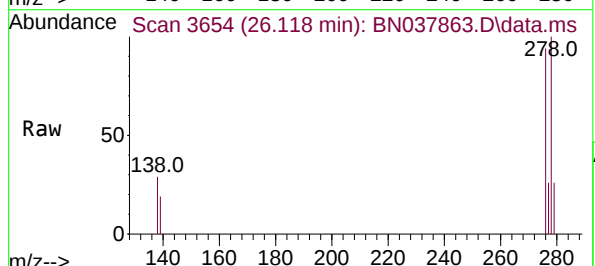
Tgt Ion:278 Resp: 16392

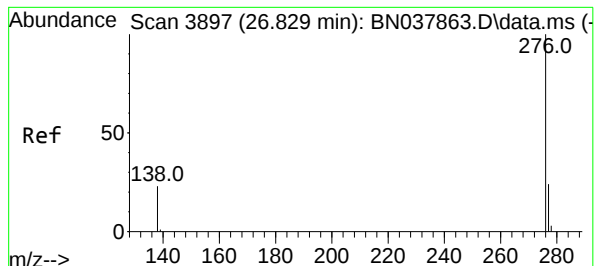
Ion Ratio Lower Upper

278 100

139 19.3 15.4 23.2

279 26.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.829 min Scan# 38

Delta R.T. 0.000 min

Lab File: BN037863.D

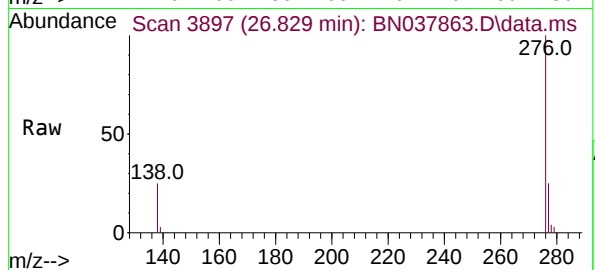
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



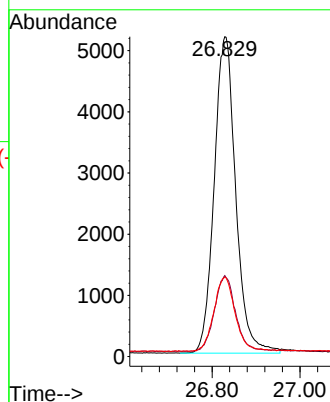
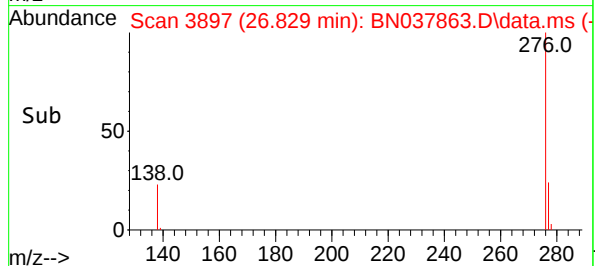
Tgt Ion:276 Resp: 17656

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 24.8 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037864.D
 Acq On : 23 Sep 2025 14:02
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

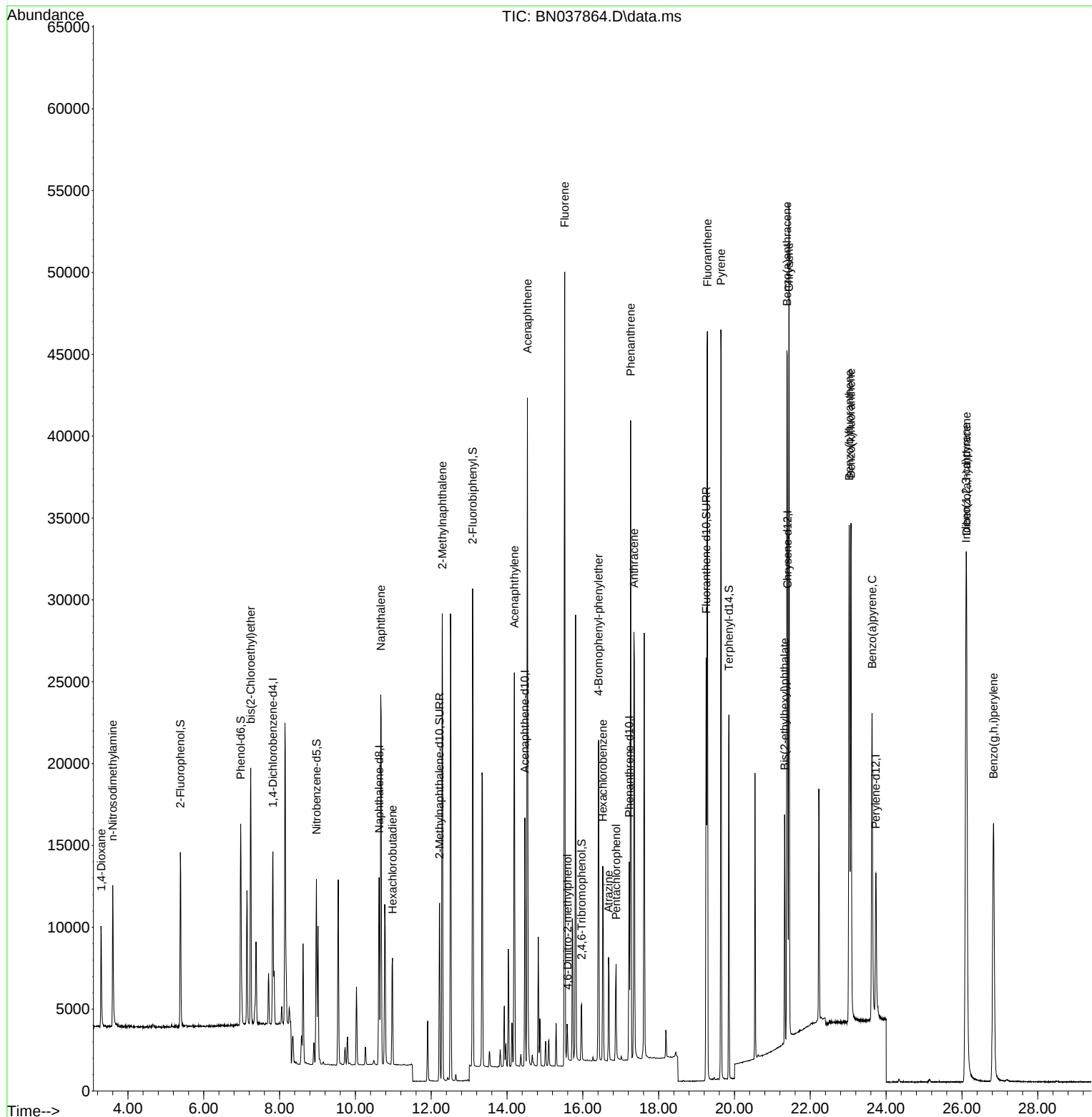
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13674	0.400	ng	0.00
35) Perylene-d12	23.730	264	12464	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	8737	0.736	ng	0.00
5) Phenol-d6	6.973	99	11319	0.725	ng	0.00
8) Nitrobenzene-d5	8.971	82	8536	0.761	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	14822	0.725	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	2186	0.687	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	24413	0.756	ng	0.00
27) Fluoranthene-d10	19.252	212	27365	0.715	ng	0.00
31) Terphenyl-d14	19.852	244	20095	0.738	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.297	88	4191	0.793	ng	98
3) n-Nitrosodimethylamine	3.600	42	5472	0.779	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	11096	0.766	ng	99
9) Naphthalene	10.669	128	30935	0.763	ng	99
10) Hexachlorobutadiene	10.979	225	5393	0.780	ng	# 99
12) 2-Methylnaphthalene	12.293	142	20065	0.758	ng	99
16) Acenaphthylene	14.195	152	26510	0.740	ng	99
17) Acenaphthene	14.537	154	19057	0.747	ng	100
18) Fluorene	15.522	166	23130	0.749	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	1414	0.755	ng	# 77
21) 4-Bromophenyl-phenylether	16.416	248	7412	0.748	ng	98
22) Hexachlorobenzene	16.528	284	9138	0.761	ng	99
23) Atrazine	16.677	200	5405	0.716	ng	# 87
24) Pentachlorophenol	16.875	266	2945	0.714	ng	97
25) Phenanthrene	17.260	178	37218	0.744	ng	99
26) Anthracene	17.347	178	32138	0.740	ng	100
28) Fluoranthene	19.285	202	41292	0.749	ng	100
30) Pyrene	19.643	202	40377	0.748	ng	100
32) Benzo(a)anthracene	21.384	228	35130	0.735	ng	100
33) Chrysene	21.438	228	39541	0.765	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	13026	0.689	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	42560	0.747	ng	100
37) Benzo(b)fluoranthene	23.025	252	39646	0.738	ng	96
38) Benzo(k)fluoranthene	23.075	252	40574	0.750	ng	96
39) Benzo(a)pyrene	23.627	252	31265	0.735	ng	94
40) Dibenzo(a,h)anthracene	26.121	278	33235	0.747	ng	98
41) Benzo(g,h,i)perylene	26.835	276	34817	0.745	ng	98

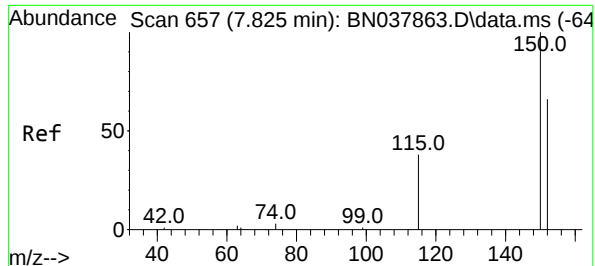
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037864.D
Acq On : 23 Sep 2025 14:02
Operator : RC/JU
Sample : SSTDIC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

Quant Time: Sep 23 16:22:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

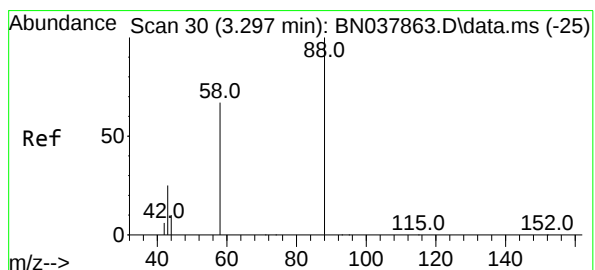
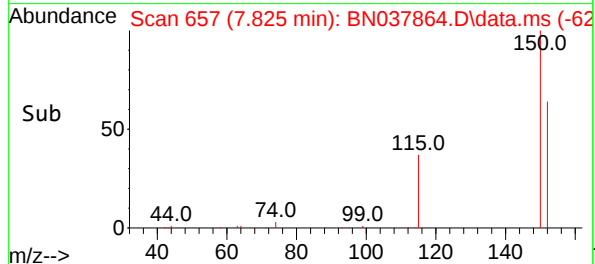
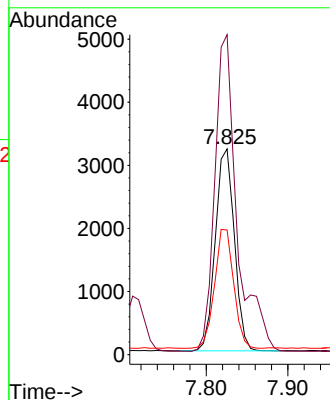
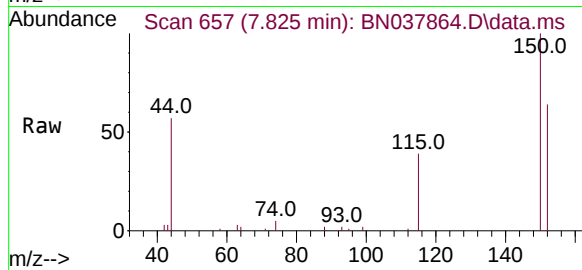




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

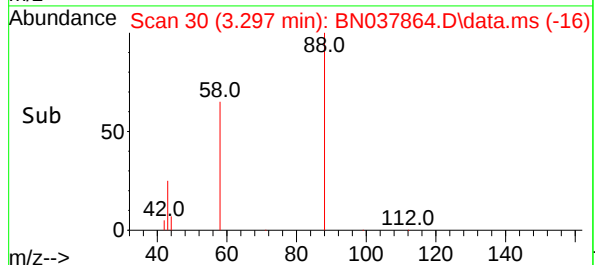
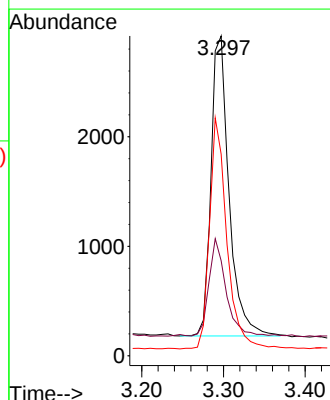
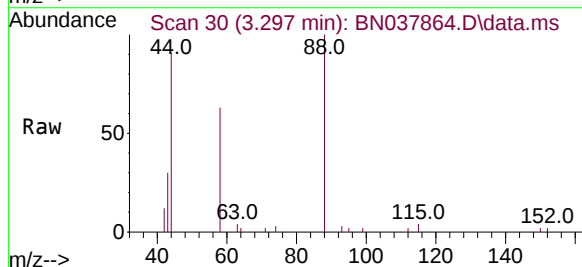
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

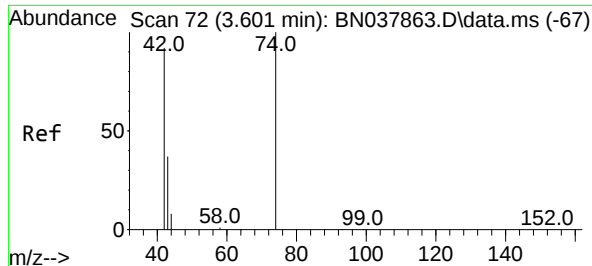
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.6 121.0 181.4
115 60.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.793 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 88 Resp: 4191
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 74.2 58.9 88.3

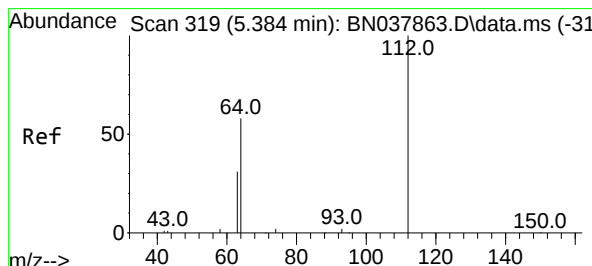
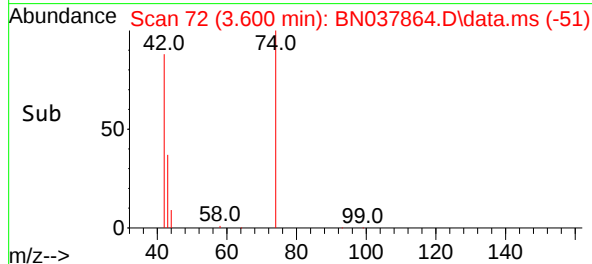
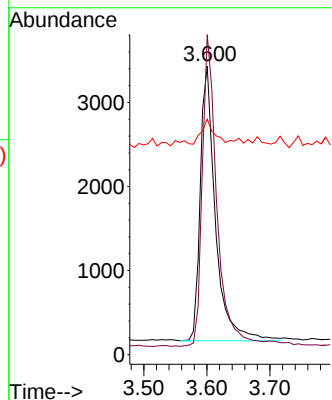
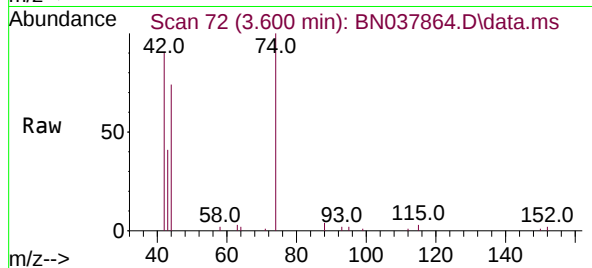




#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

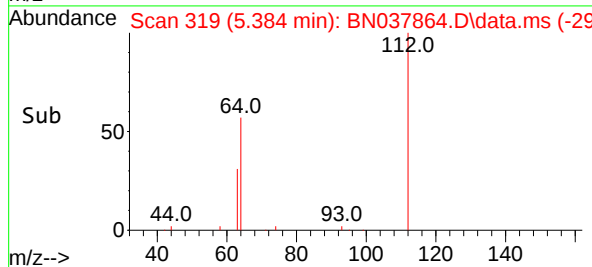
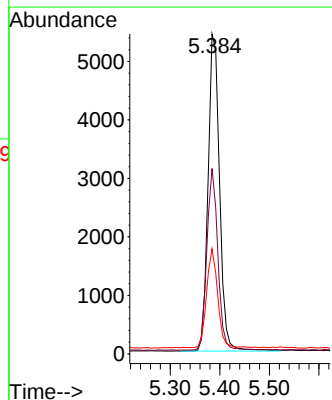
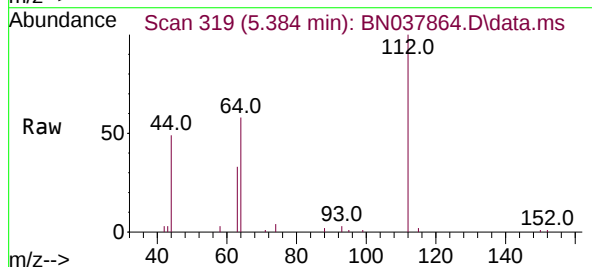
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

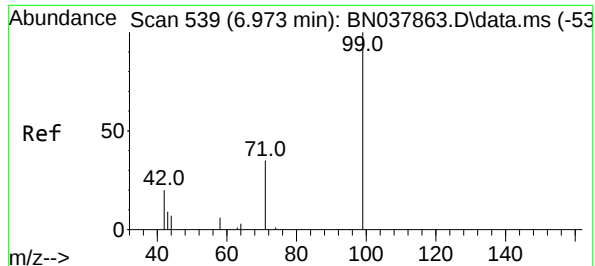
Tgt Ion: 42 Resp: 5472
Ion Ratio Lower Upper
42 100
74 111.5 93.4 140.0
44 7.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.736 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 112 Resp: 8737
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.8 24.9 37.3

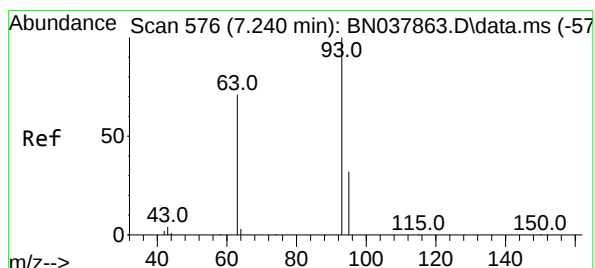
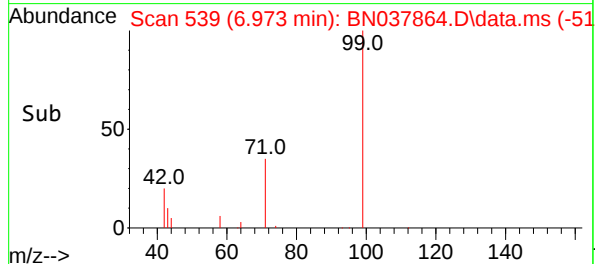
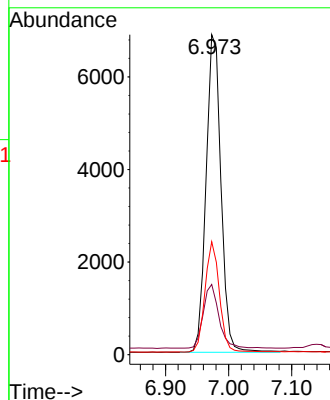
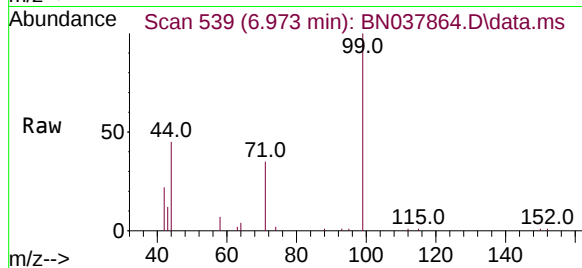




#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

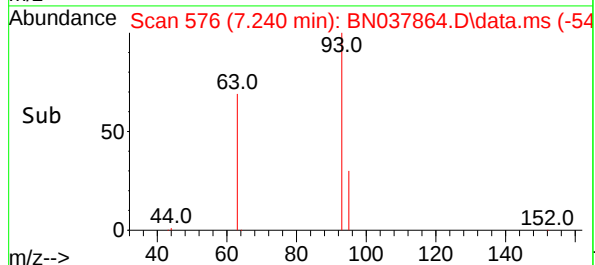
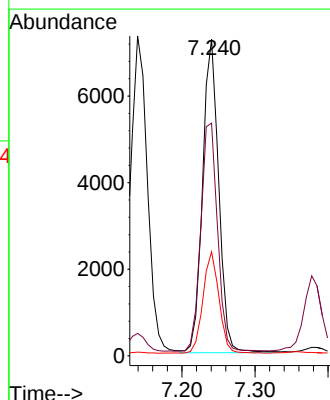
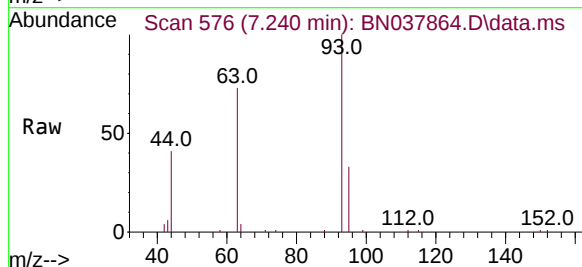
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

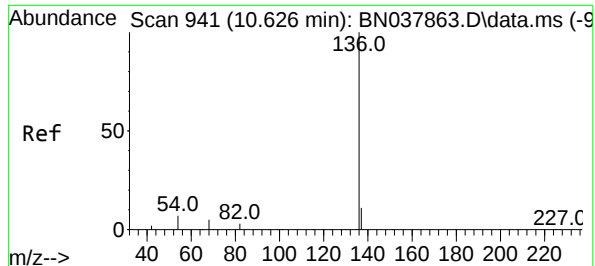
Tgt Ion:	99	Resp:	11319
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:	93	Resp:	11096
Ion	Ratio	Lower	Upper
93	100		
63	75.5	60.1	90.1
95	32.2	25.4	38.2

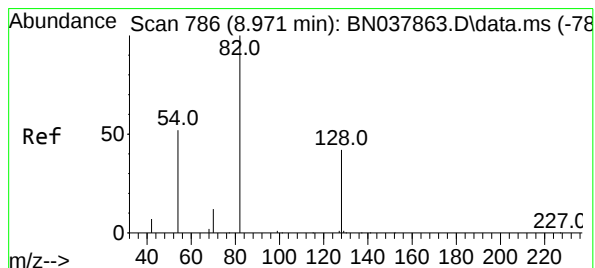
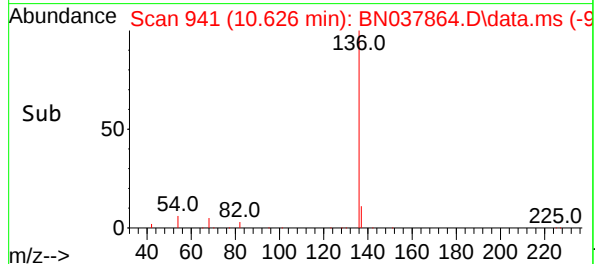
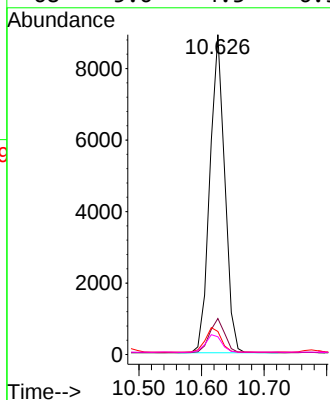
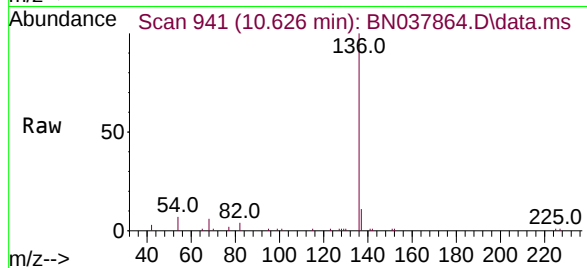




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

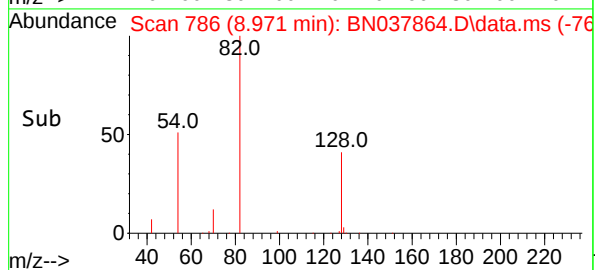
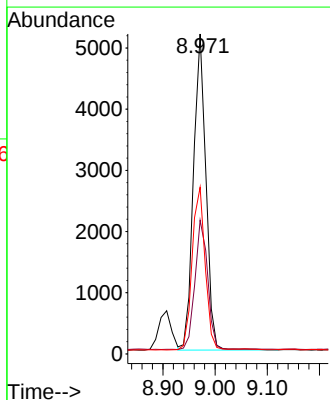
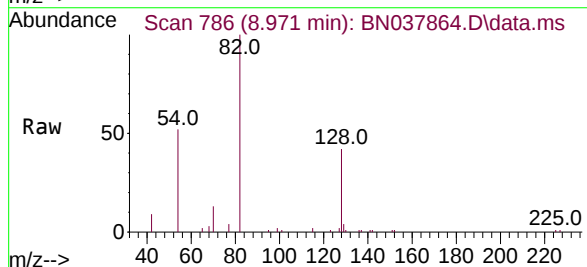
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

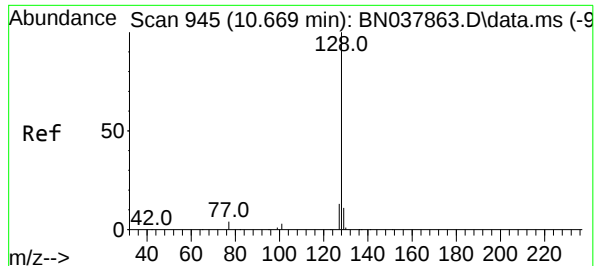
Tgt Ion:	136	Resp:	14715
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:	82	Resp:	8536
Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.8	52.2
54	52.1	42.2	63.2





#9

Naphthalene

Concen: 0.763 ng

RT: 10.669 min Scan# 945

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

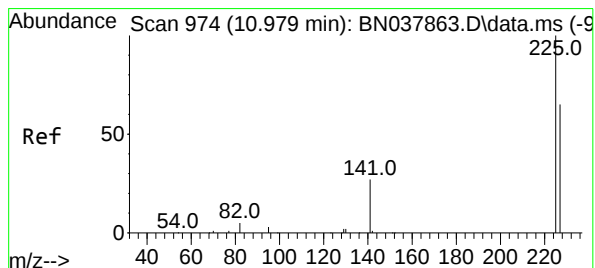
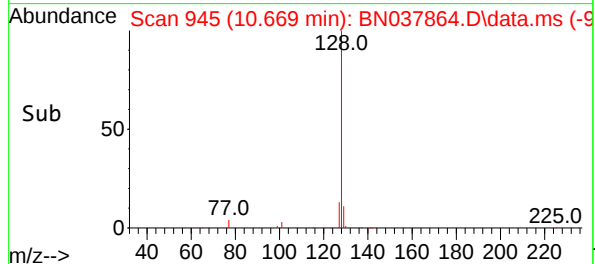
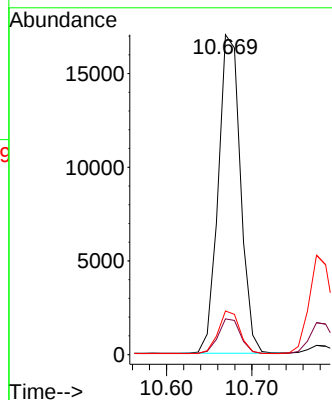
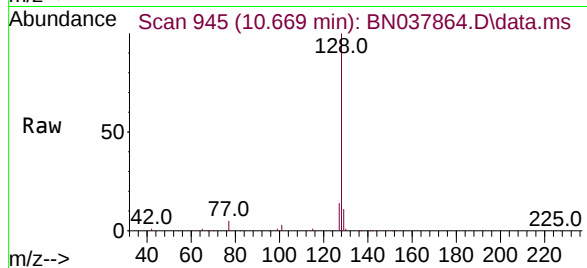
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:	128	Resp:	30935
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.6	11.0	16.6



#10

Hexachlorobutadiene

Concen: 0.780 ng

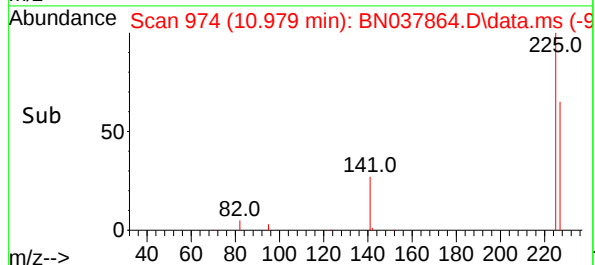
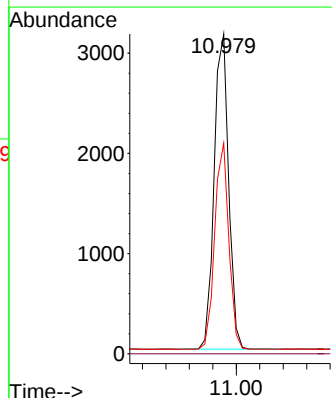
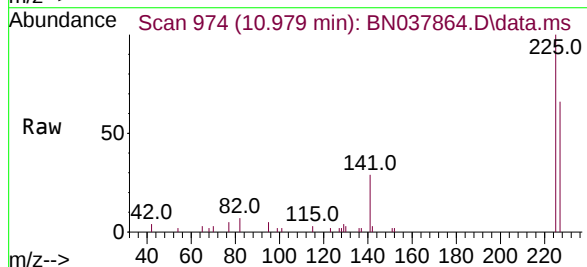
RT: 10.979 min Scan# 974

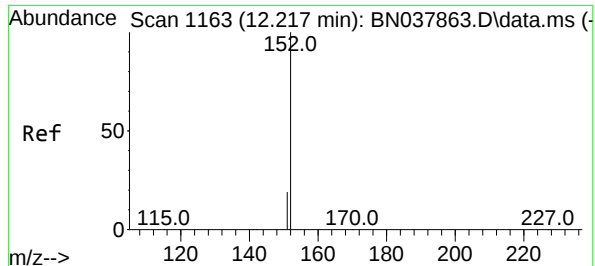
Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Tgt Ion:	225	Resp:	5393
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2

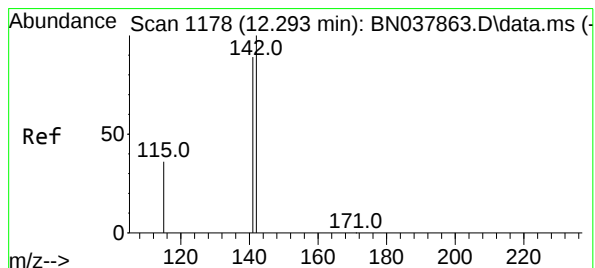
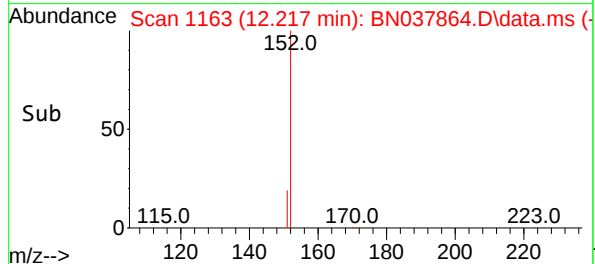
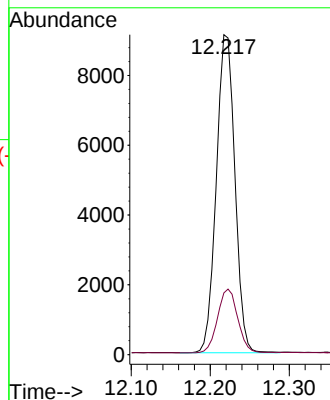
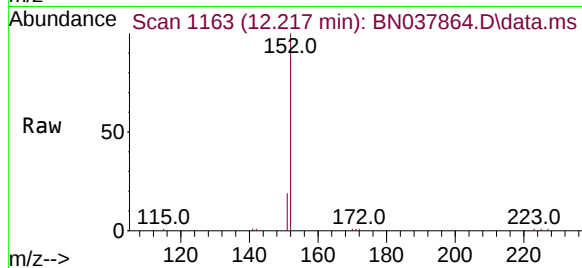




#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

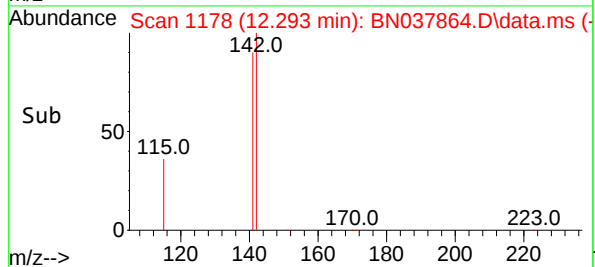
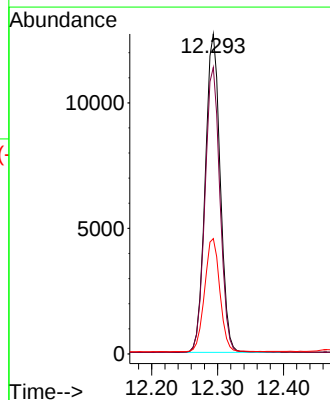
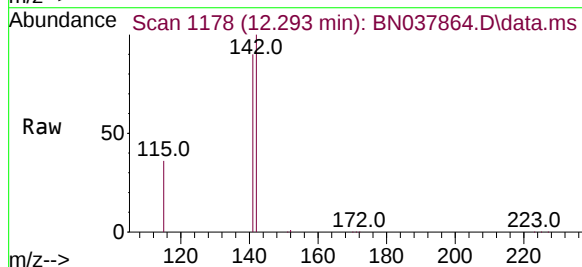
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

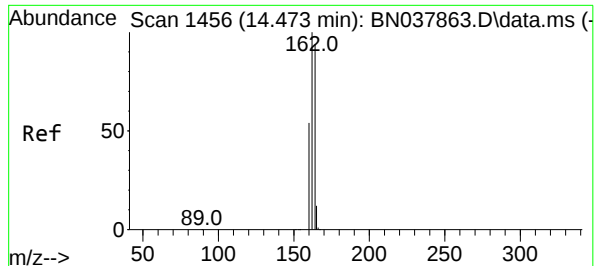
Tgt Ion:152 Resp: 14822
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.758 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:142 Resp: 20065
Ion Ratio Lower Upper
142 100
141 89.5 71.2 106.8
115 36.0 29.7 44.5

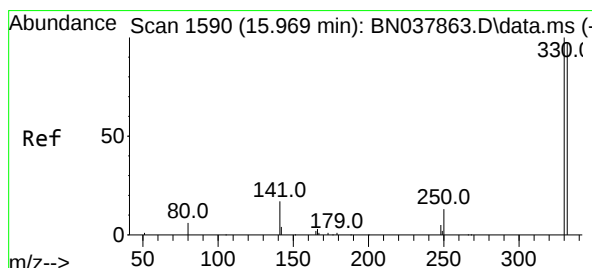
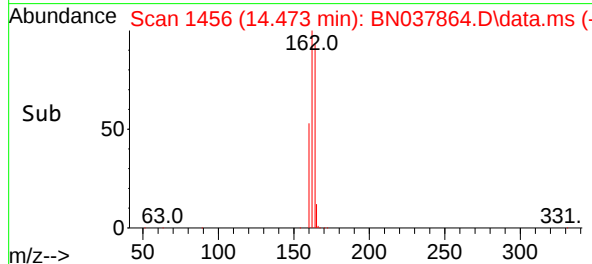
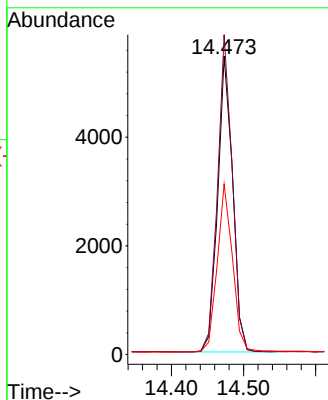
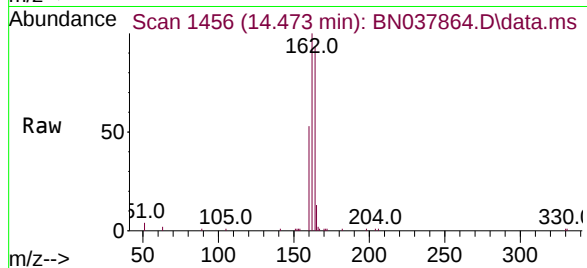




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

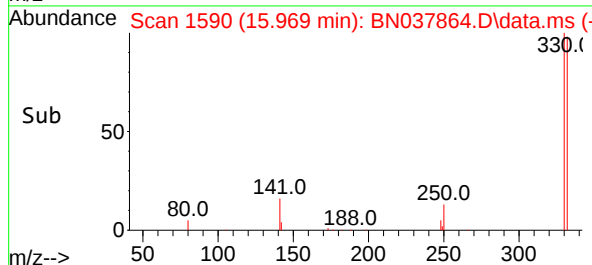
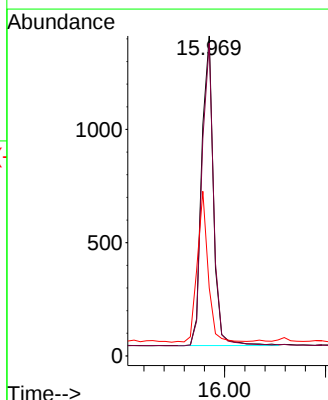
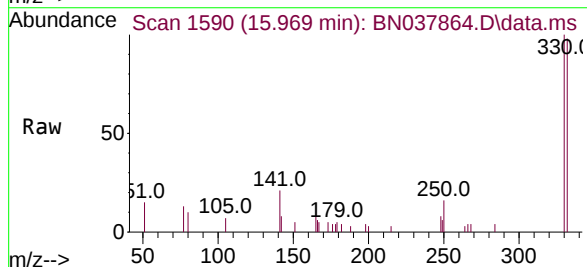
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

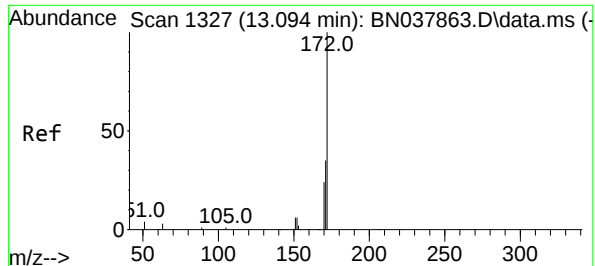
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.8	127.2
160	57.1	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.687 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.2	115.8
141	45.1	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 0.756 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

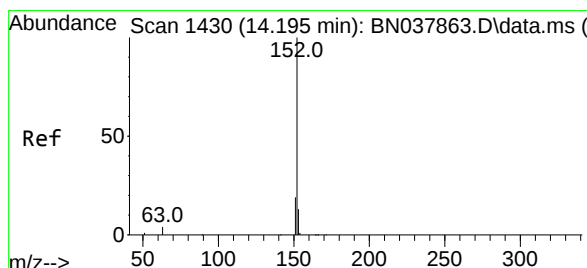
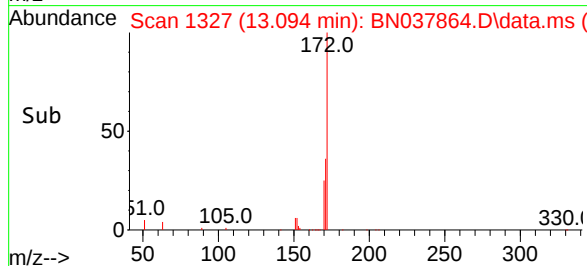
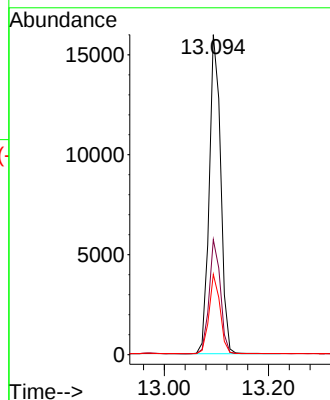
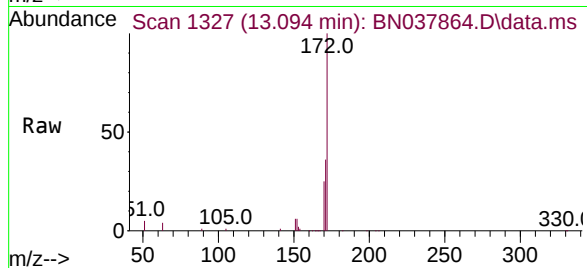
Tgt Ion:172 Resp: 24413

Ion Ratio Lower Upper

172 100

171 36.0 28.6 43.0

170 25.1 19.7 29.5



#16

Acenaphthylene

Concen: 0.740 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

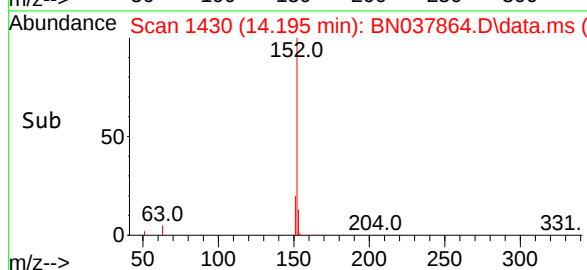
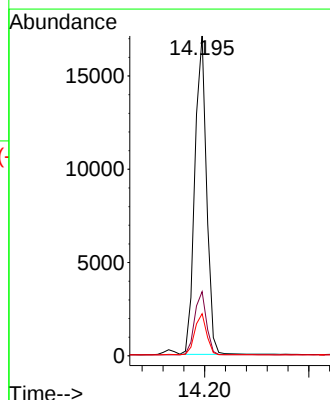
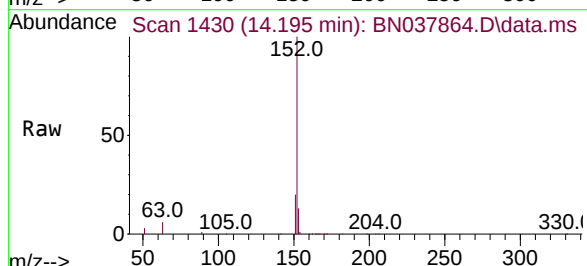
Tgt Ion:152 Resp: 26510

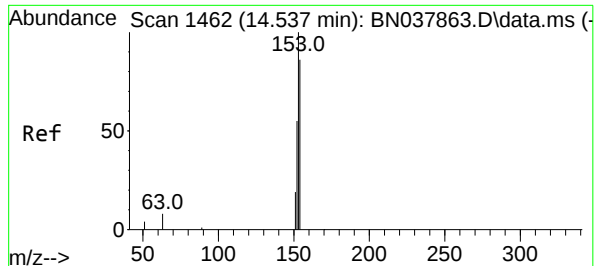
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 0.747 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

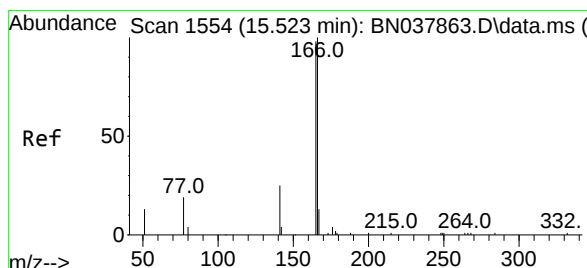
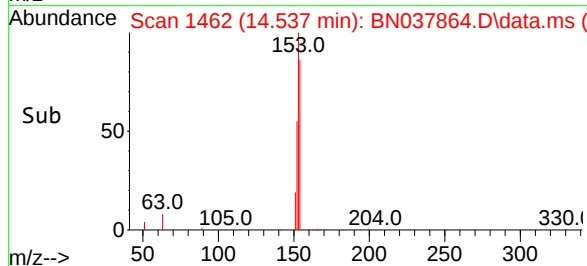
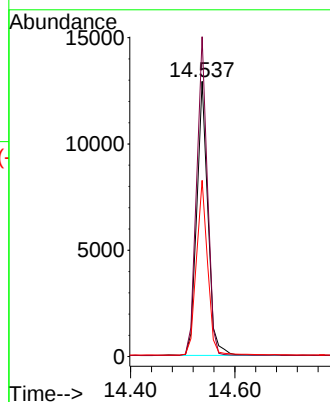
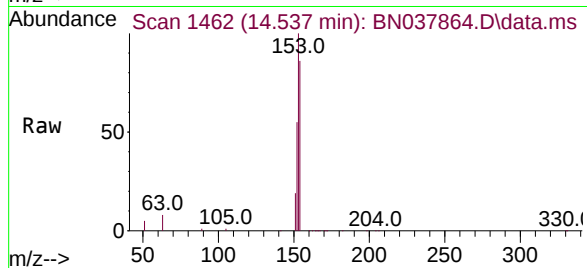
Tgt Ion:154 Resp: 19057

Ion Ratio Lower Upper

154 100

153 112.9 90.5 135.7

152 64.2 51.8 77.8



#18

Fluorene

Concen: 0.749 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

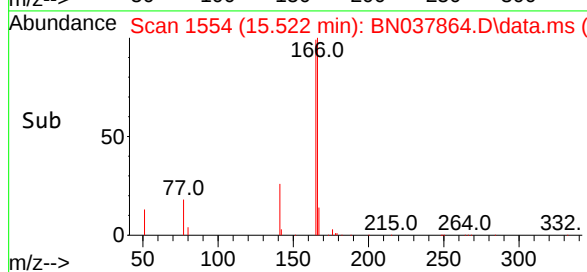
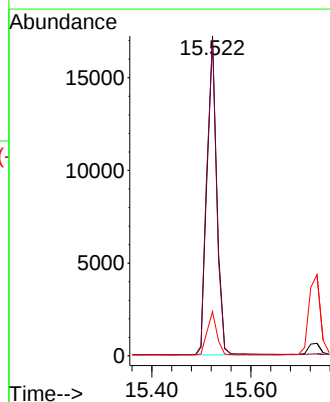
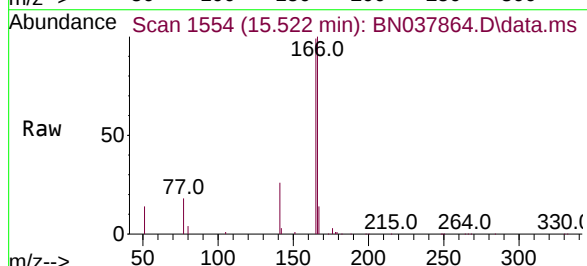
Tgt Ion:166 Resp: 23130

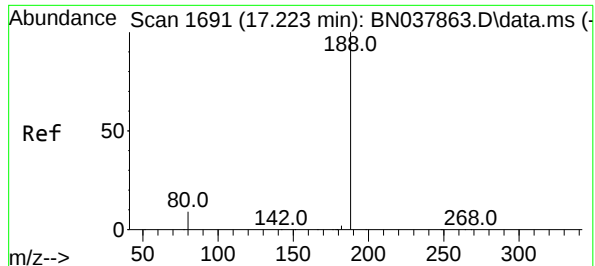
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

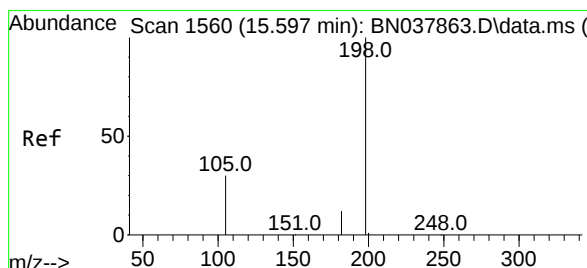
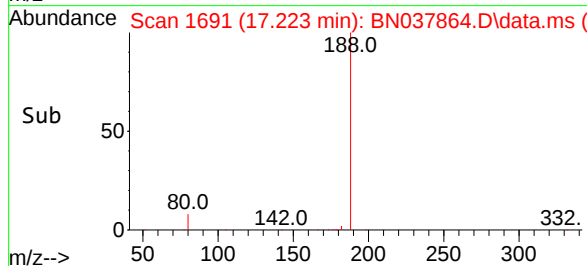
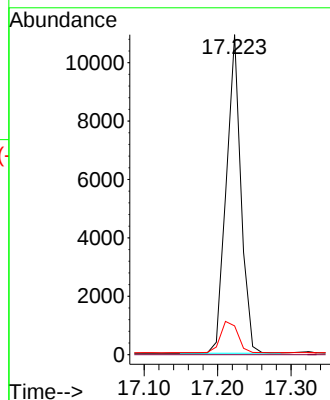
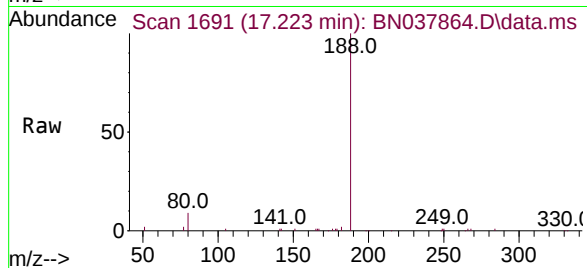
Tgt Ion:188 Resp: 15207

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.755 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

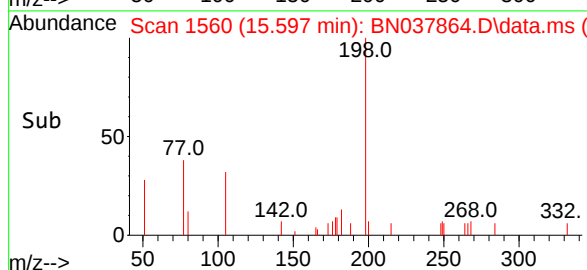
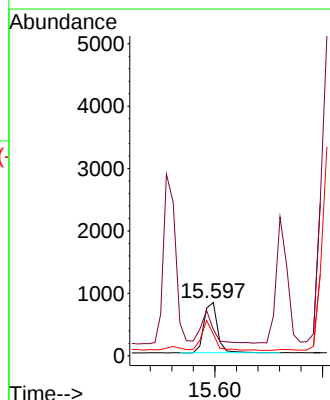
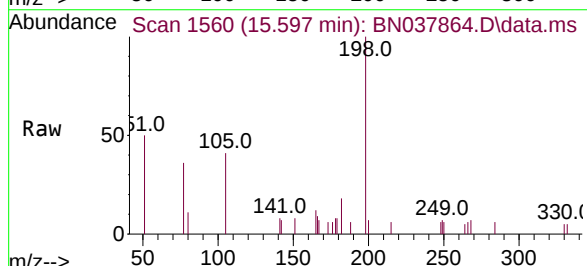
Tgt Ion:198 Resp: 1414

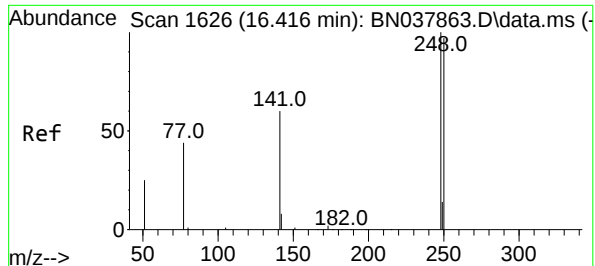
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

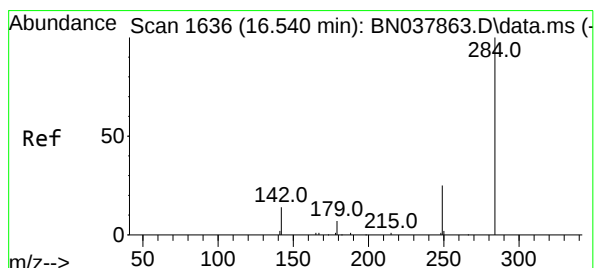
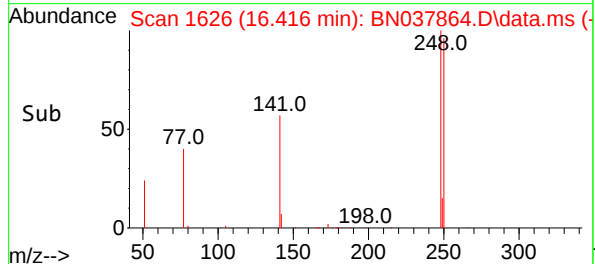
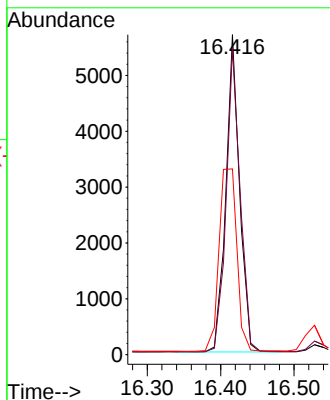
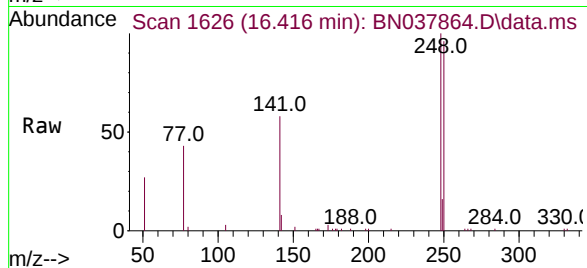




#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

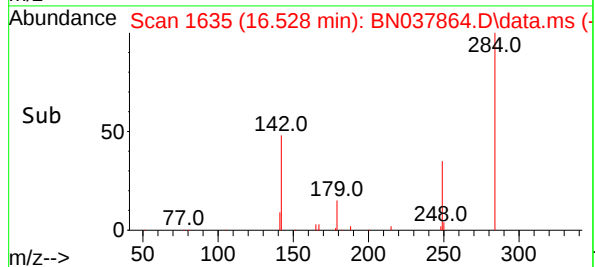
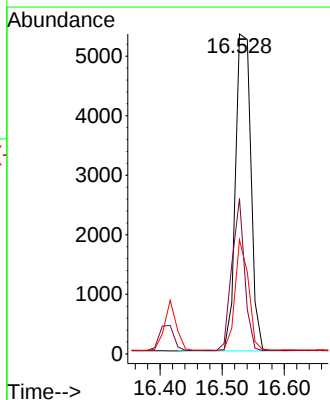
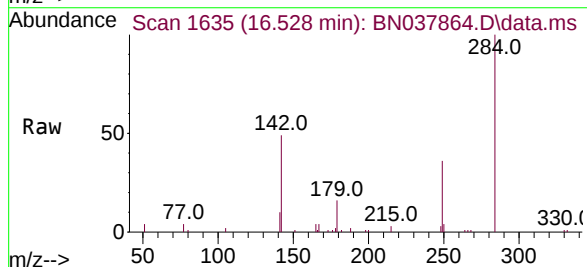
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

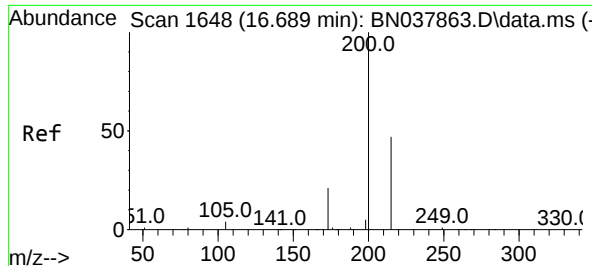
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.761 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.7	30.9	46.3
249	30.2	23.9	35.9

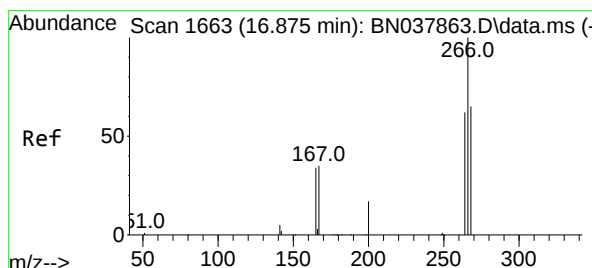
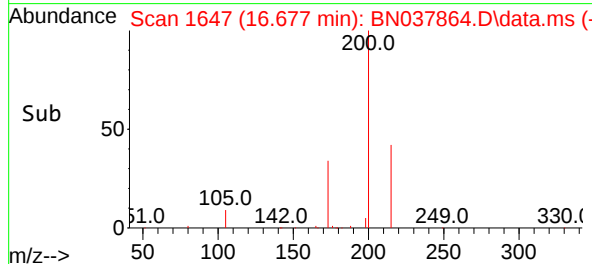
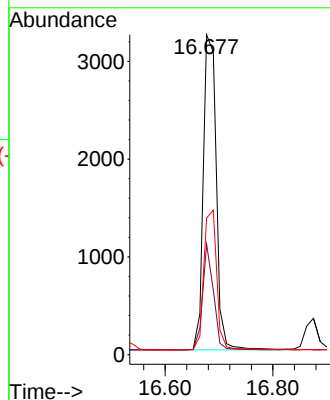
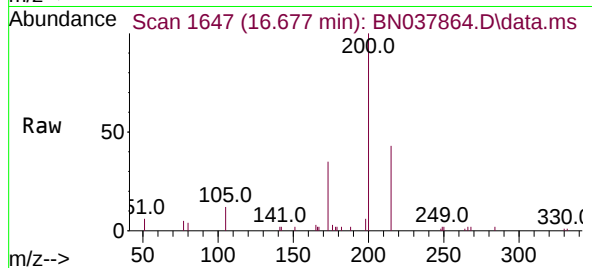




#23
Atrazine
Concen: 0.716 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

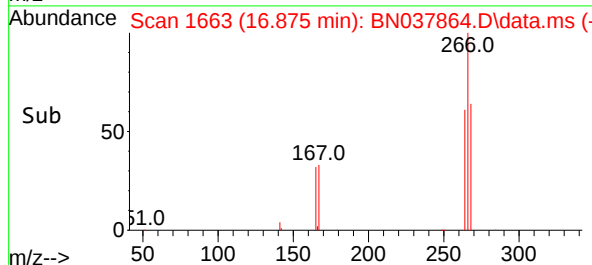
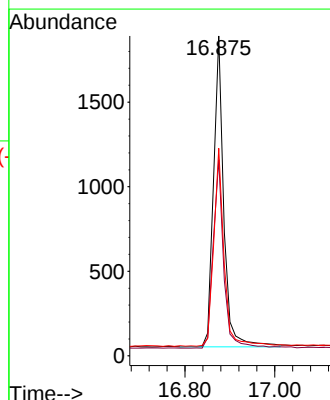
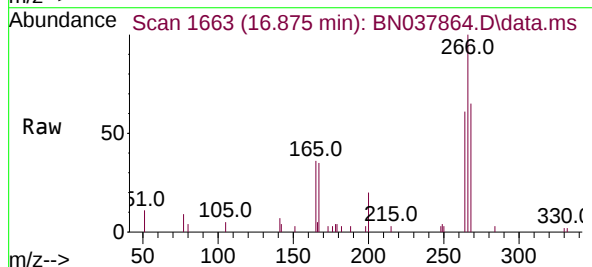
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

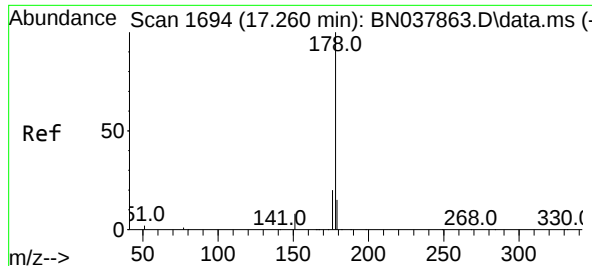
Tgt Ion:200 Resp: 5405
Ion Ratio Lower Upper
200 100
173 34.5 18.3 27.5#
215 42.7 38.6 58.0



#24
Pentachlorophenol
Concen: 0.714 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:266 Resp: 2945
Ion Ratio Lower Upper
266 100
264 62.0 50.9 76.3
268 64.2 54.3 81.5

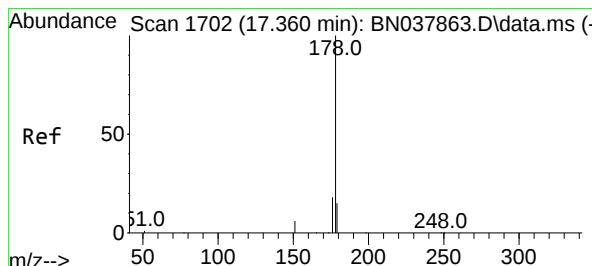
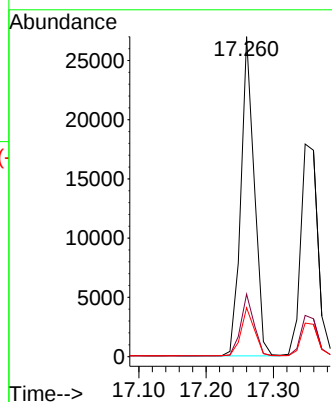
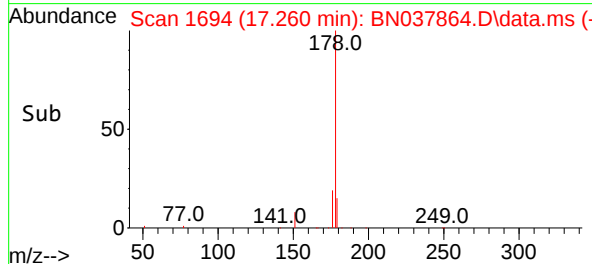
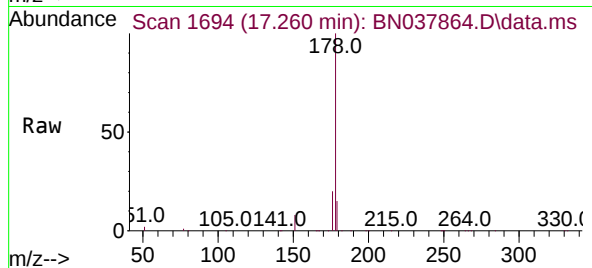




#25
Phenanthrene
Concen: 0.744 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

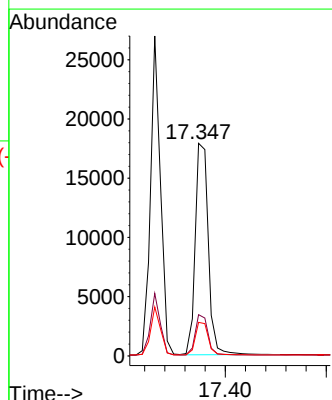
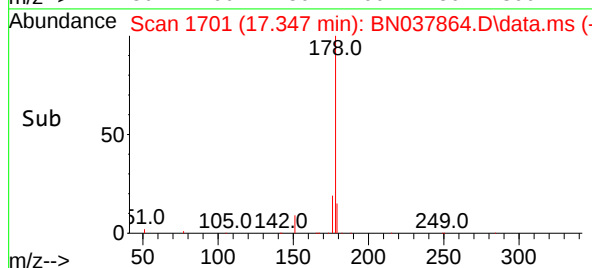
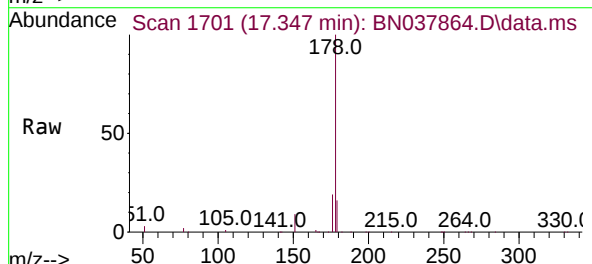
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

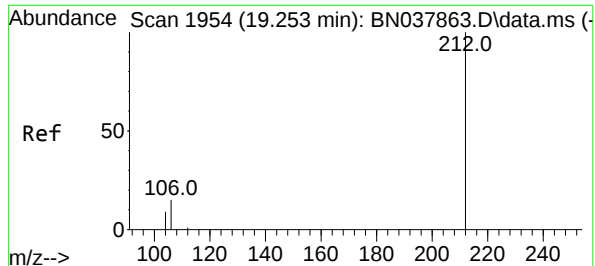
Tgt Ion:178 Resp: 37218
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.1 12.3 18.5



#26
Anthracene
Concen: 0.740 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:178 Resp: 32138
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.715 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

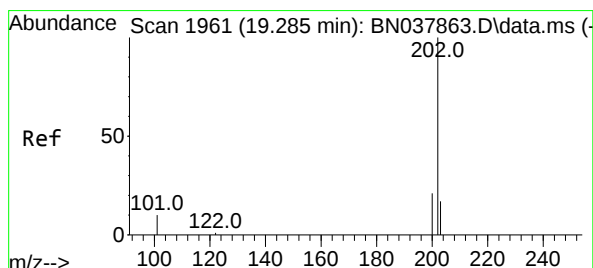
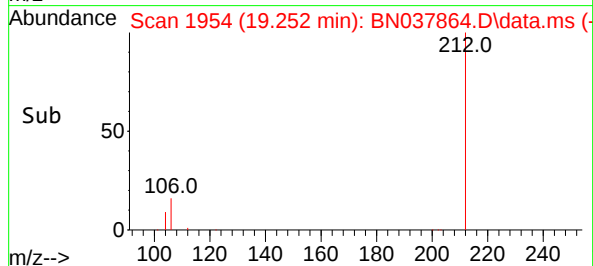
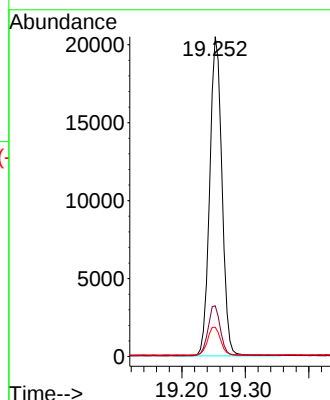
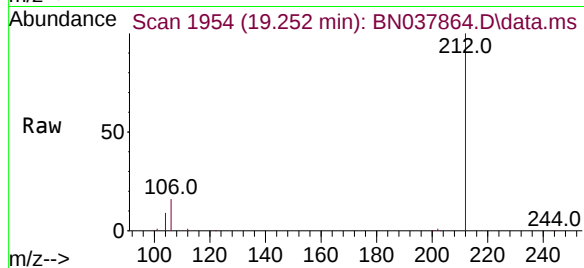
Tgt Ion:212 Resp: 27365

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.749 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

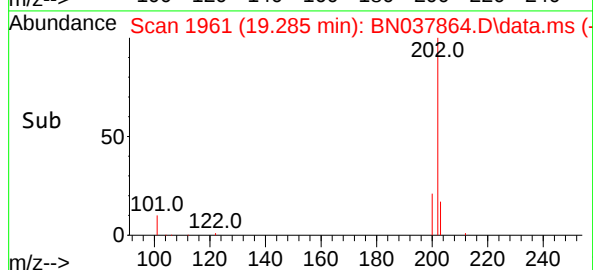
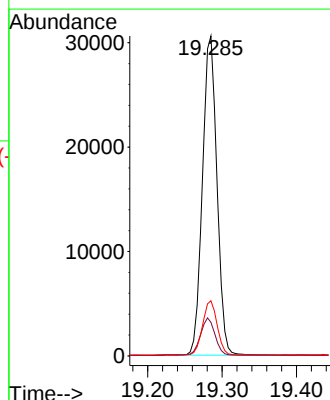
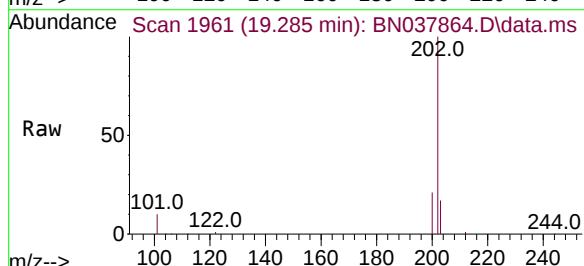
Tgt Ion:202 Resp: 41292

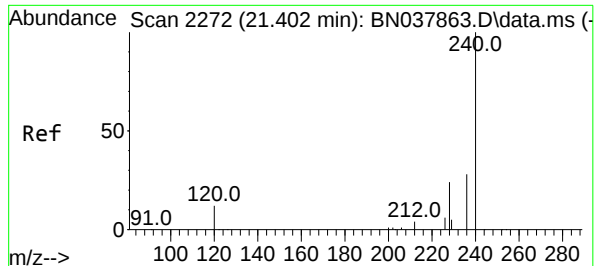
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

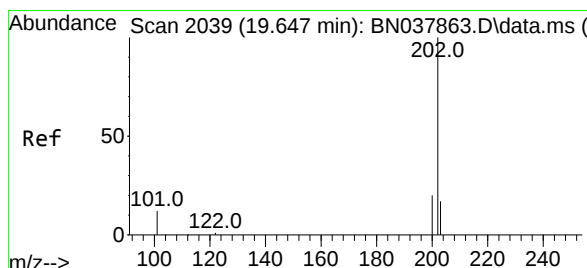
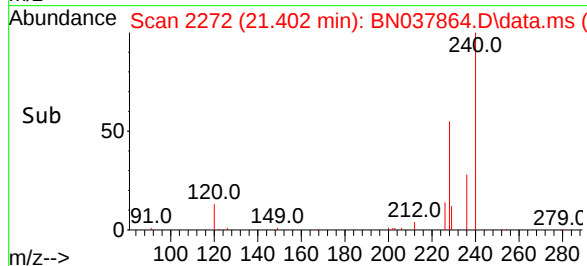
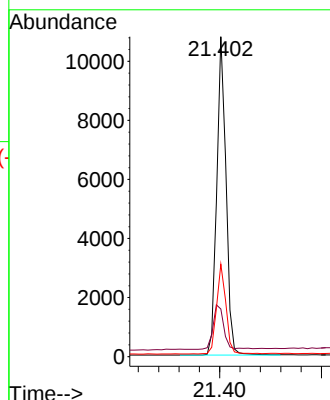
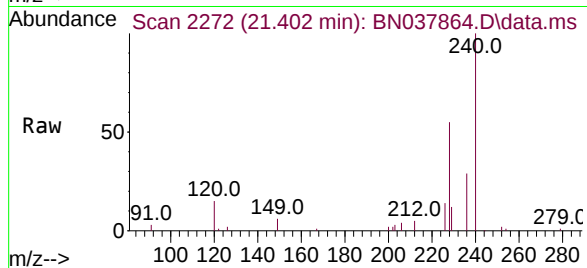
Tgt Ion:240 Resp: 13674

Ion Ratio Lower Upper

240 100

120 14.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.748 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

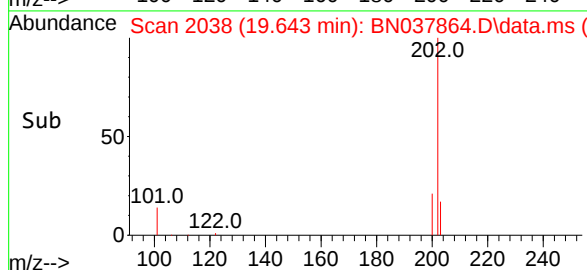
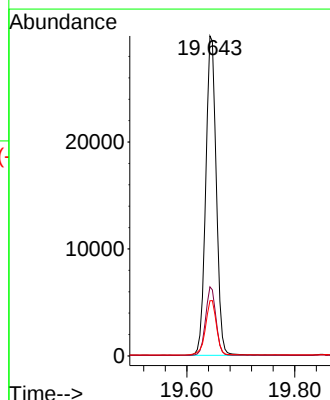
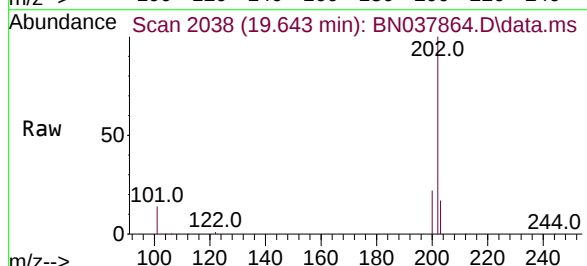
Tgt Ion:202 Resp: 40377

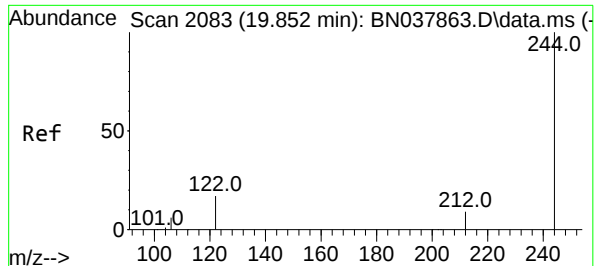
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.4

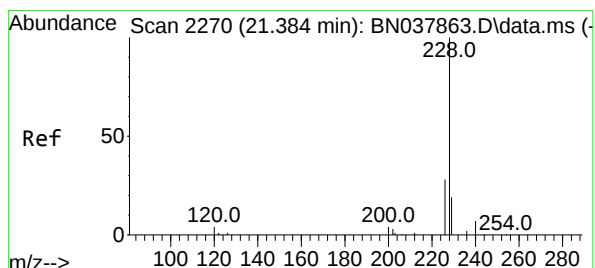
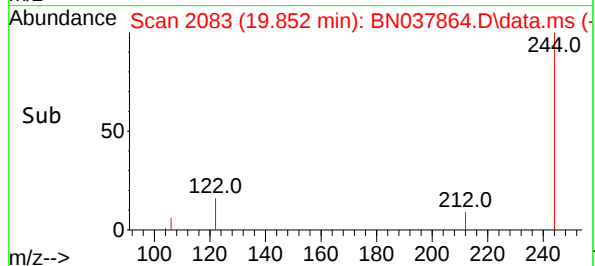
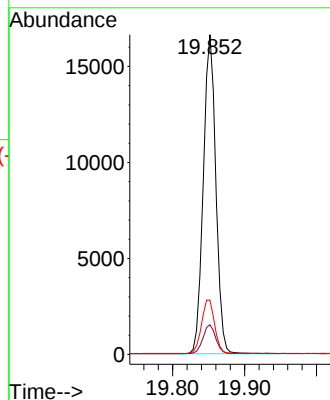
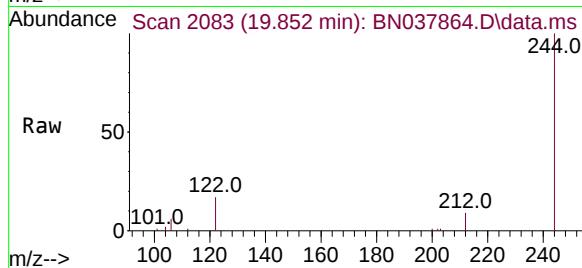




#31
Terphenyl-d14
Concen: 0.738 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

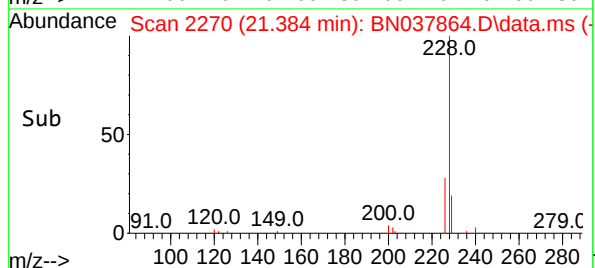
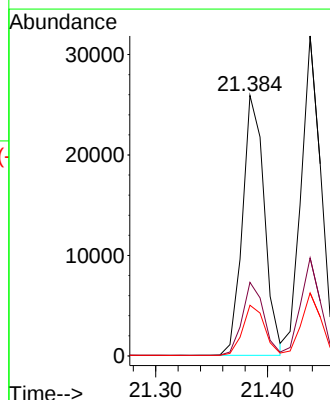
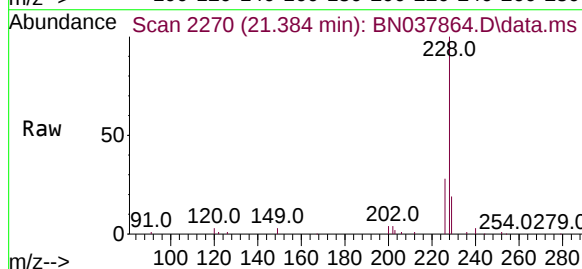
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

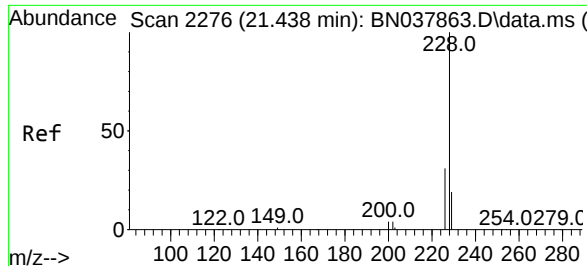
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	17.0	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.735 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	19.5	15.6	23.4

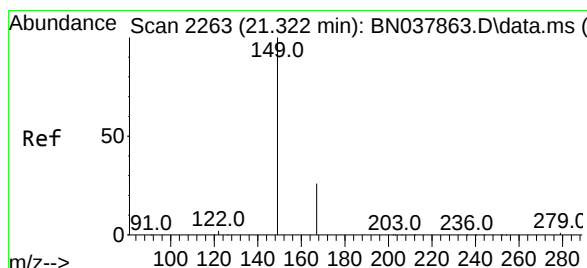
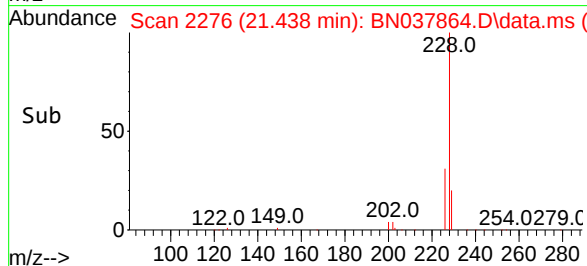
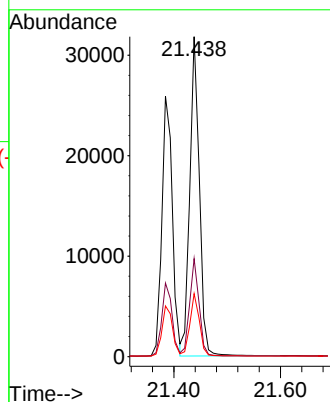
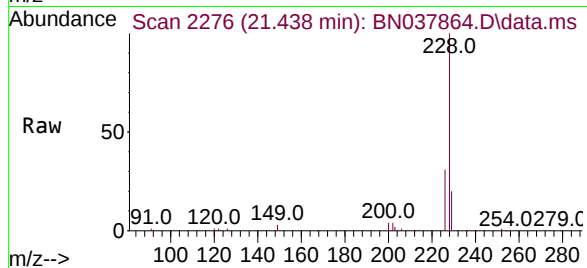




#33
Chrysene
Concen: 0.765 ng
RT: 21.438 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

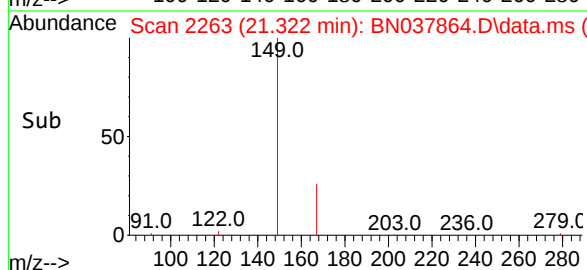
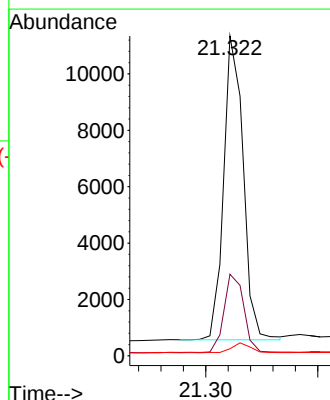
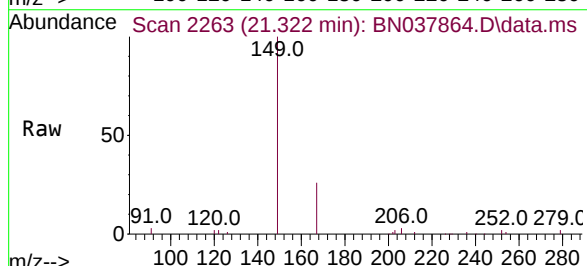
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

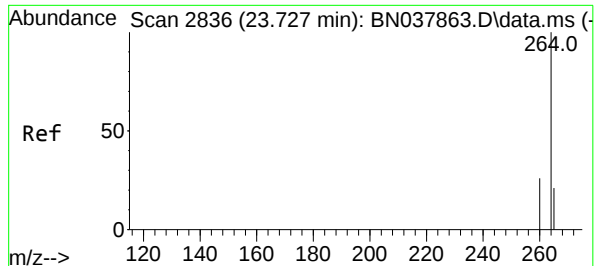
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.689 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.4	30.6
279	3.2	2.4	3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037864.D

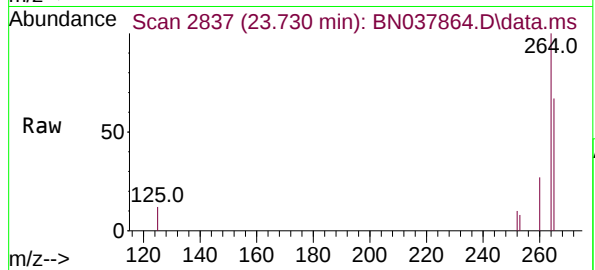
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



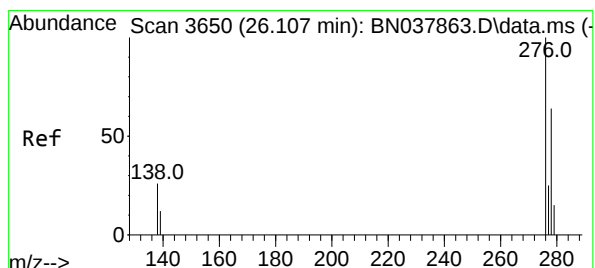
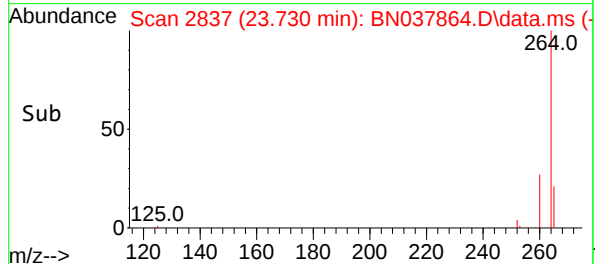
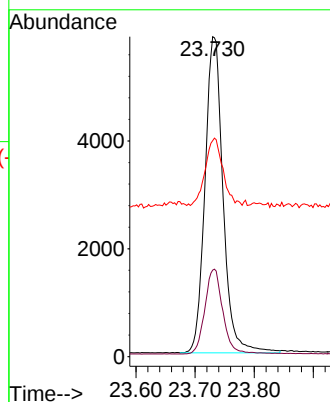
Tgt Ion:264 Resp: 12464

Ion Ratio Lower Upper

264 100

260 27.0 21.5 32.3

265 67.5 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.747 ng

RT: 26.107 min Scan# 3650

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

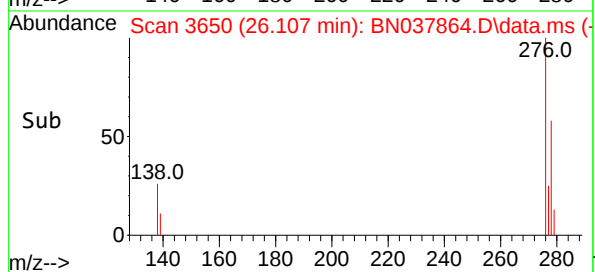
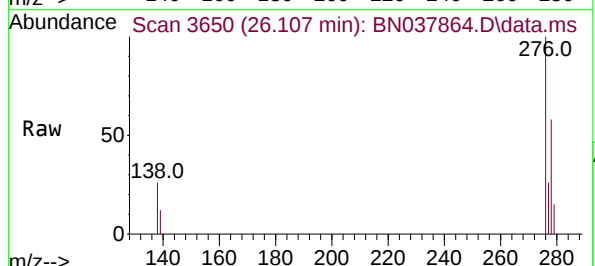
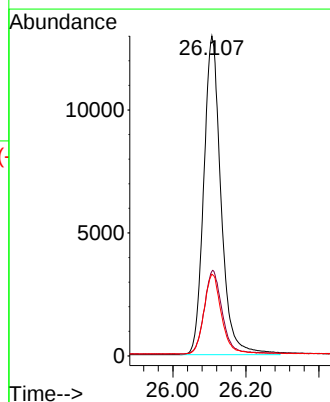
Tgt Ion:276 Resp: 42560

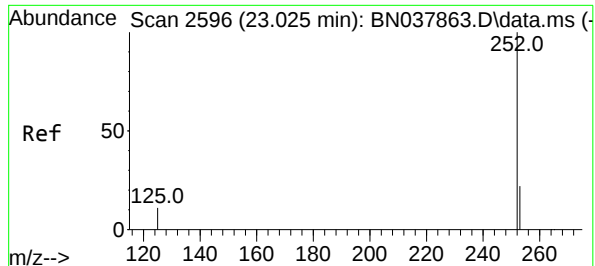
Ion Ratio Lower Upper

276 100

138 26.8 21.4 32.0

277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.738 ng

RT: 23.025 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

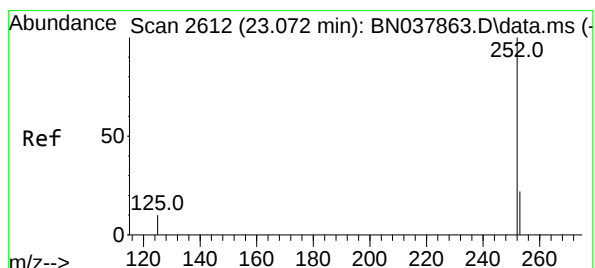
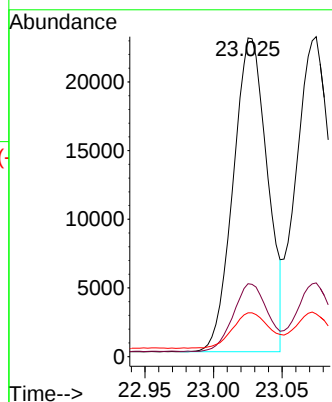
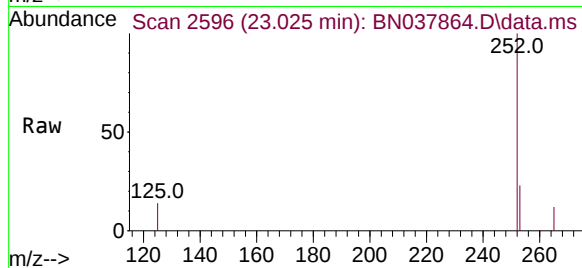
Tgt Ion:252 Resp: 39646

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

125 13.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.750 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

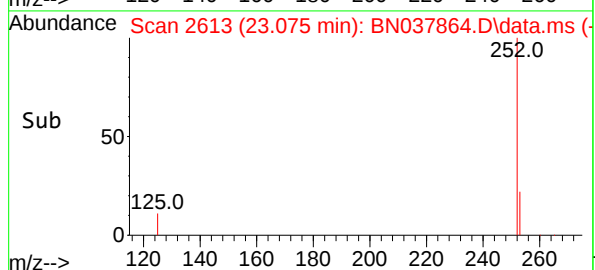
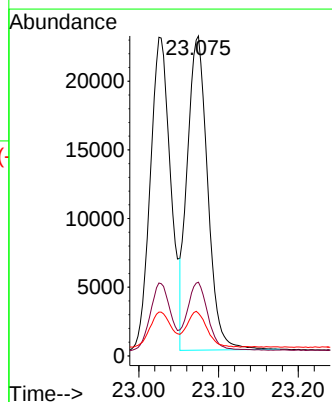
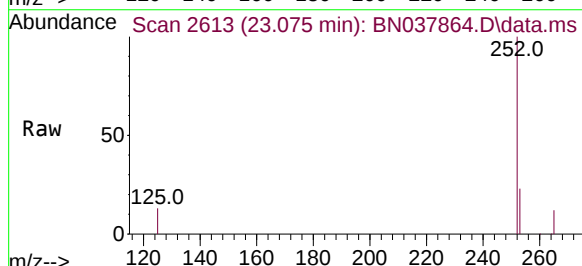
Tgt Ion:252 Resp: 40574

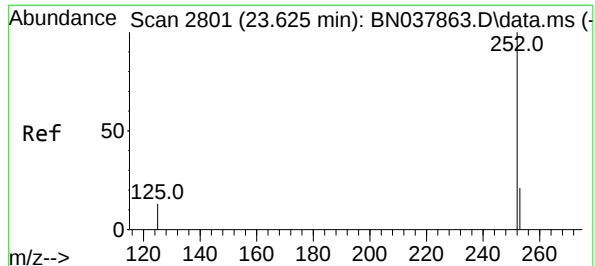
Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.735 ng

RT: 23.627 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

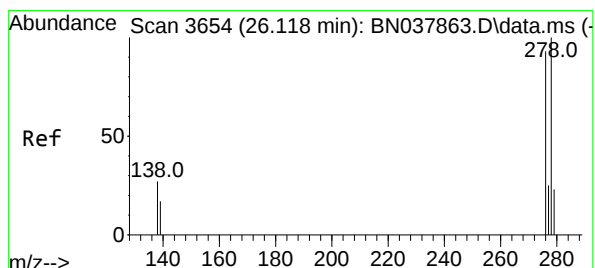
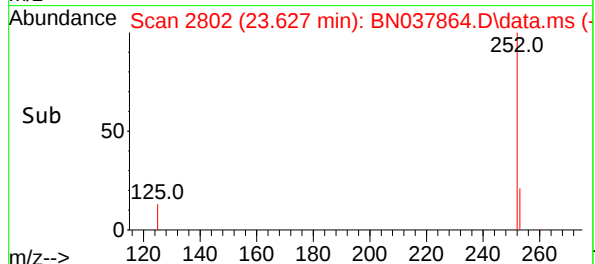
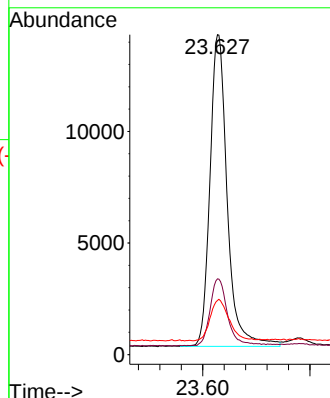
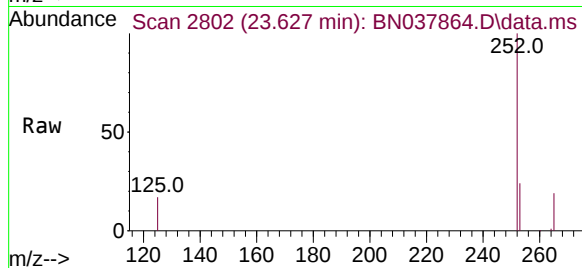
Tgt Ion:252 Resp: 31265

Ion Ratio Lower Upper

252 100

253 23.7 20.6 30.8

125 16.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.747 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

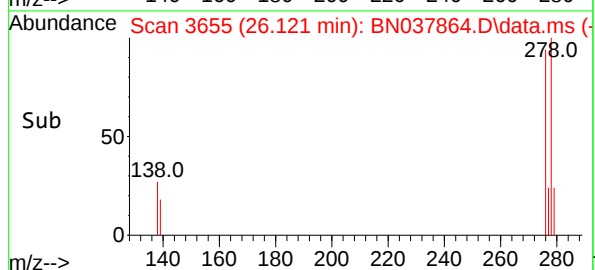
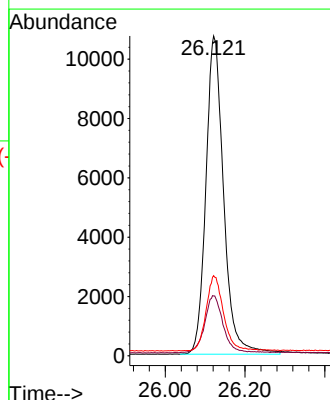
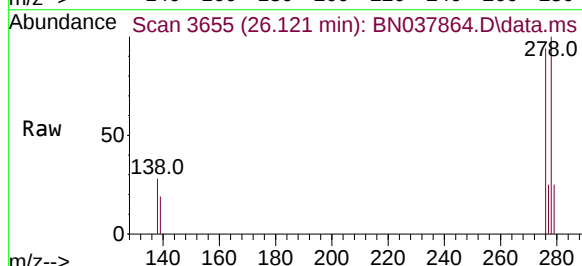
Tgt Ion:278 Resp: 33235

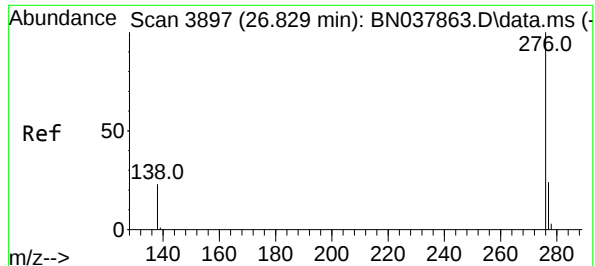
Ion Ratio Lower Upper

278 100

139 18.7 15.4 23.2

279 25.1 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.745 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037864.D

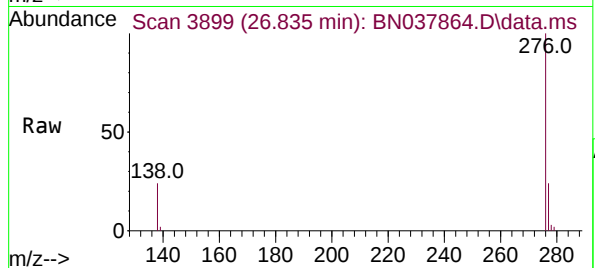
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



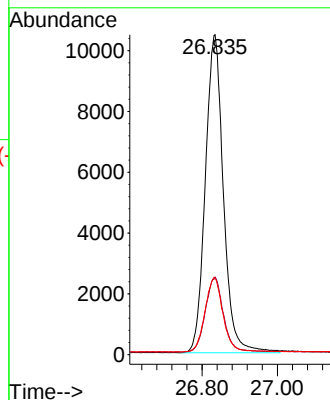
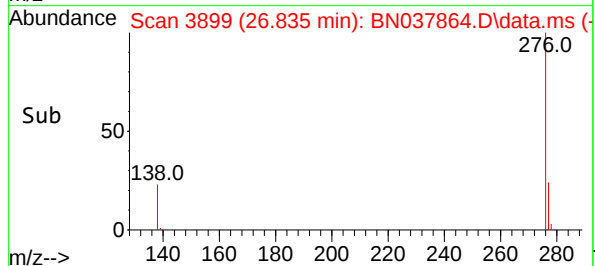
Tgt Ion:276 Resp: 34817

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 23.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037865.D
 Acq On : 23 Sep 2025 14:38
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

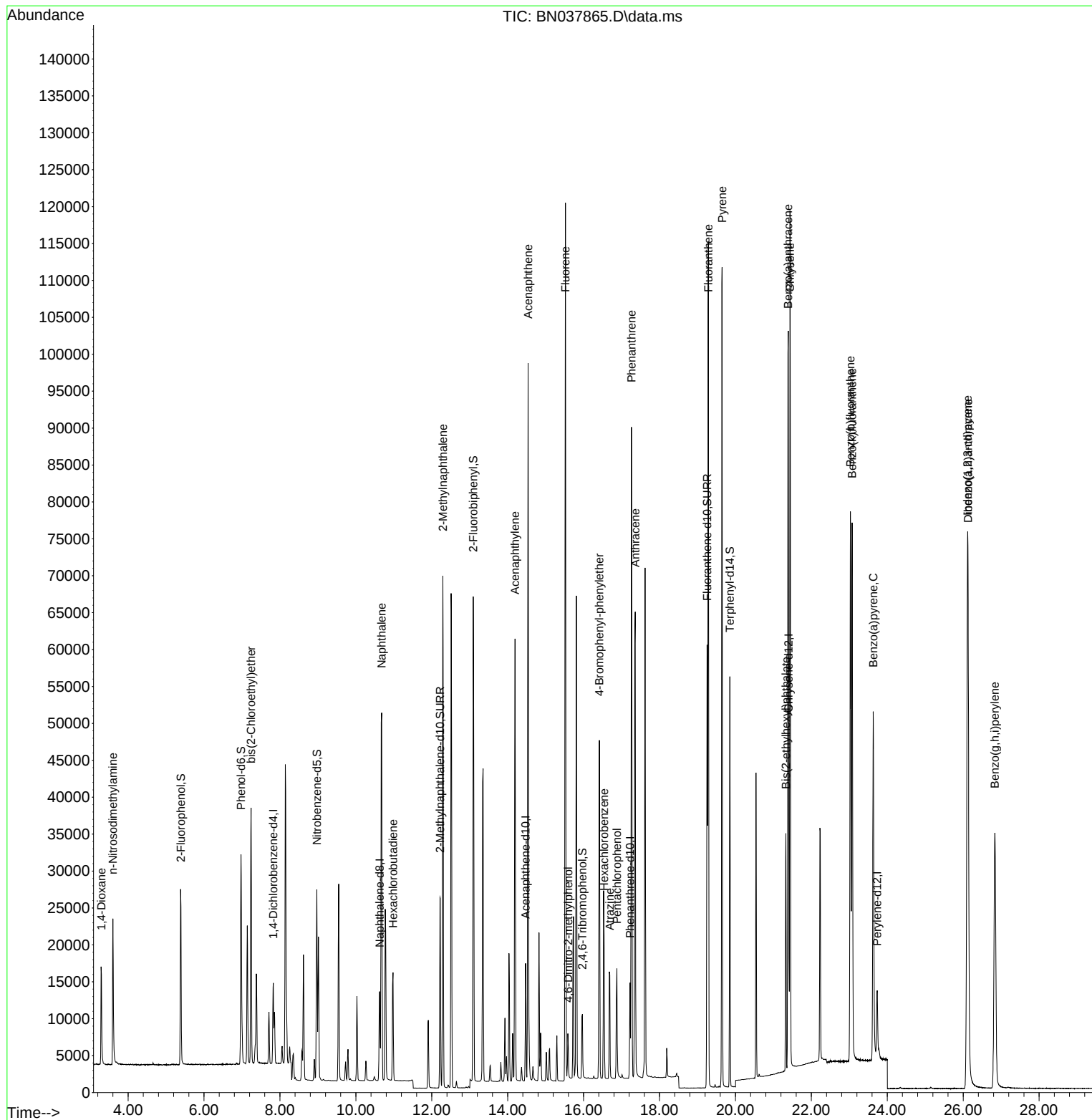
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng	0.00
29) Chrysene-d12	21.402	240	14963	0.400	ng	0.00
35) Perylene-d12	23.735	264	12917	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	19493	1.592	ng	0.00
5) Phenol-d6	6.973	99	26005	1.616	ng	0.00
8) Nitrobenzene-d5	8.971	82	19230	1.627	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	34256	1.592	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	5471	1.613	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	55598	1.616	ng	0.00
27) Fluoranthene-d10	19.252	212	63771	1.597	ng	0.00
31) Terphenyl-d14	19.852	244	47765	1.603	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	9123	1.674	ng	98
3) n-Nitrosodimethylamine	3.600	42	12048	1.662	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	24687	1.653	ng	100
9) Naphthalene	10.679	128	69620	1.631	ng	98
10) Hexachlorobutadiene	10.978	225	11899	1.634	ng	# 100
12) 2-Methylnaphthalene	12.293	142	46704	1.675	ng	99
16) Acenaphthylene	14.195	152	64093	1.680	ng	100
17) Acenaphthene	14.537	154	45411	1.670	ng	97
18) Fluorene	15.522	166	55922	1.701	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	3669	1.602	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	17278	1.670	ng	98
22) Hexachlorobenzene	16.540	284	20548	1.638	ng	99
23) Atrazine	16.689	200	13043	1.656	ng	97
24) Pentachlorophenol	16.875	266	7393	1.718	ng	98
25) Phenanthrene	17.260	178	86207	1.650	ng	99
26) Anthracene	17.359	178	76744	1.693	ng	100
28) Fluoranthene	19.285	202	98772	1.717	ng	99
30) Pyrene	19.647	202	96189	1.628	ng	100
32) Benzo(a)anthracene	21.384	228	85145	1.628	ng	99
33) Chrysene	21.438	228	93309	1.650	ng	100
34) Bis(2-ethylhexyl)phtha...	21.330	149	31032	1.500	ng	98
36) Indeno(1,2,3-cd)pyrene	26.112	276	97476	1.652	ng	99
37) Benzo(b)fluoranthene	23.028	252	93525	1.679	ng	# 94
38) Benzo(k)fluoranthene	23.075	252	96868	1.728	ng	# 94
39) Benzo(a)pyrene	23.630	252	73009	1.657	ng	# 90
40) Dibenzo(a,h)anthracene	26.127	278	77237	1.676	ng	97
41) Benzo(g,h,i)perylene	26.835	276	78576	1.623	ng	98

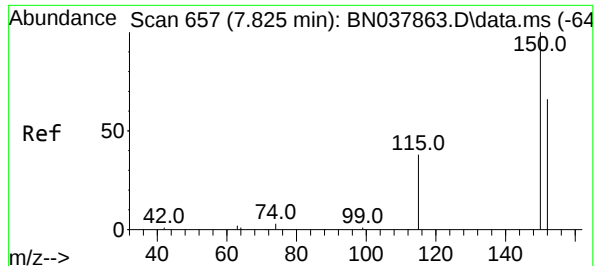
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDIC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

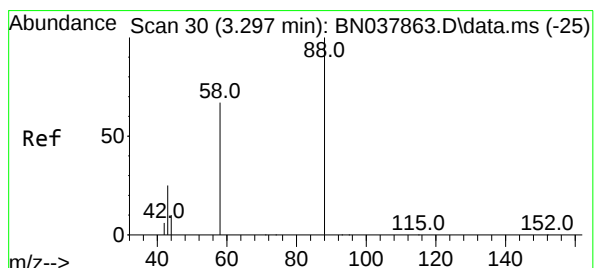
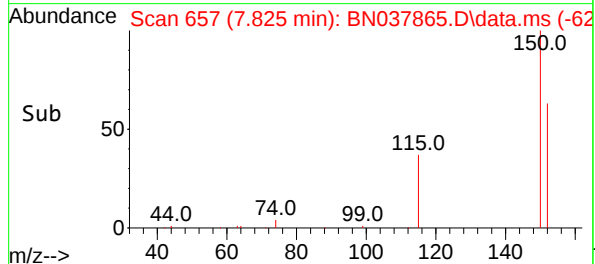
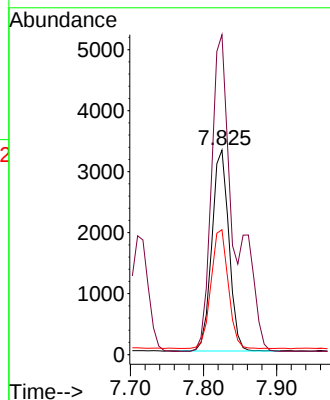
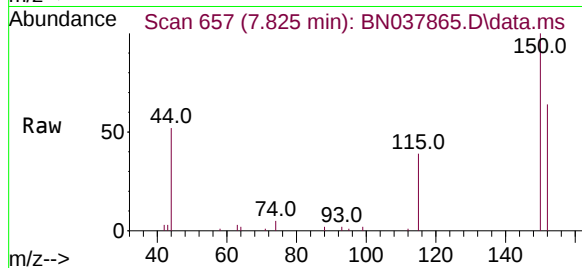




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

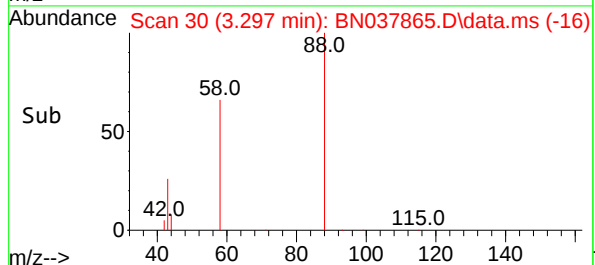
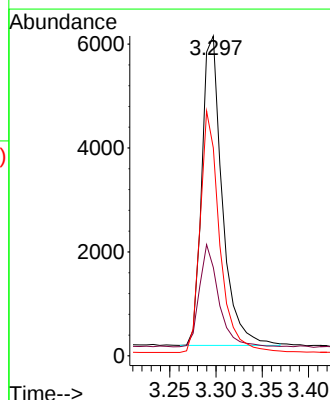
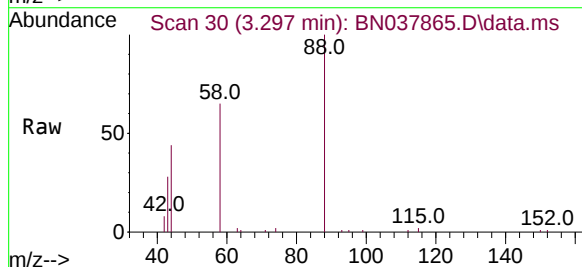
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

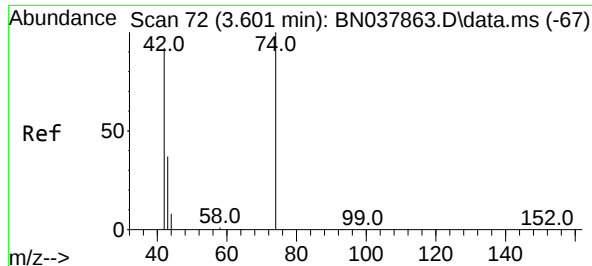
Tgt Ion:152 Resp: 5367
Ion Ratio Lower Upper
152 100
150 156.4 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 1.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123
Ion Ratio Lower Upper
88 100
43 31.3 26.6 39.8
58 74.6 58.9 88.3

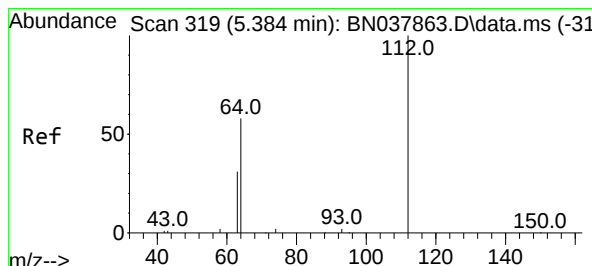
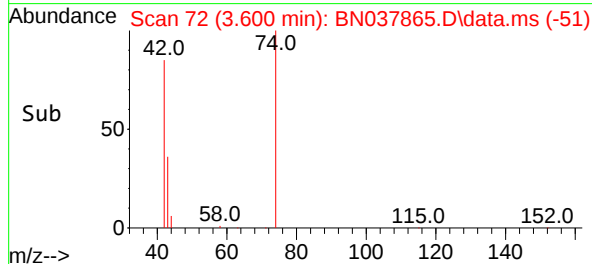
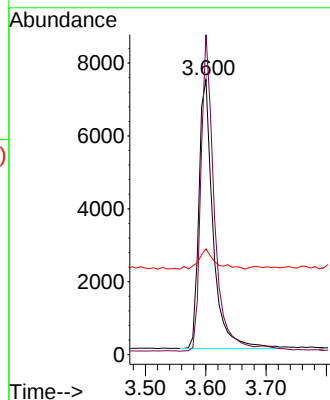
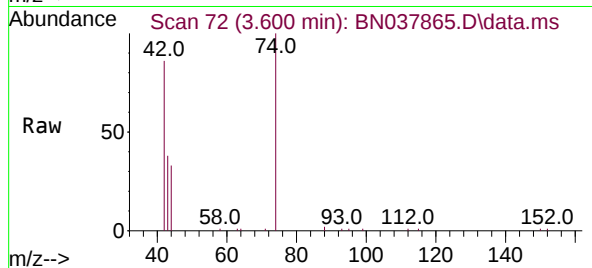




#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

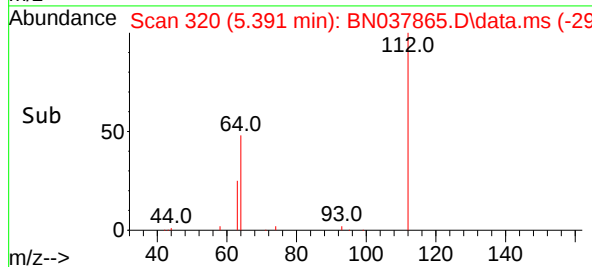
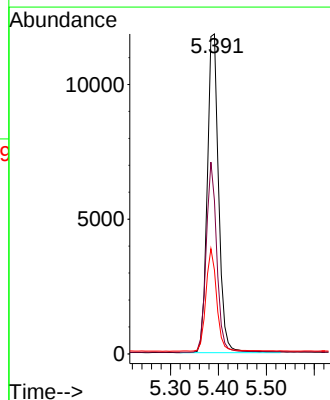
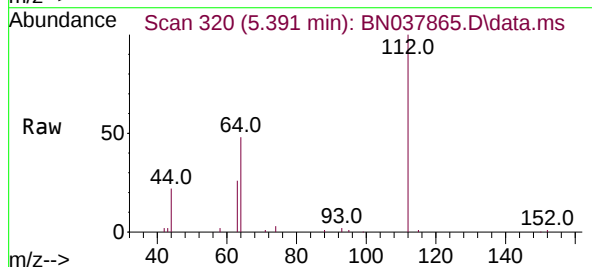
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

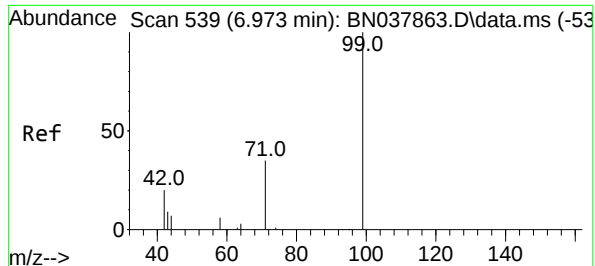
Tgt Ion: 42 Resp: 12048
Ion Ratio Lower Upper
42 100
74 110.9 93.4 140.0
44 8.4 22.2 33.4#



#4
2-Fluorophenol
Concen: 1.592 ng
RT: 5.391 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 112 Resp: 19493
Ion Ratio Lower Upper
112 100
64 55.9 44.6 66.8
63 30.3 24.9 37.3

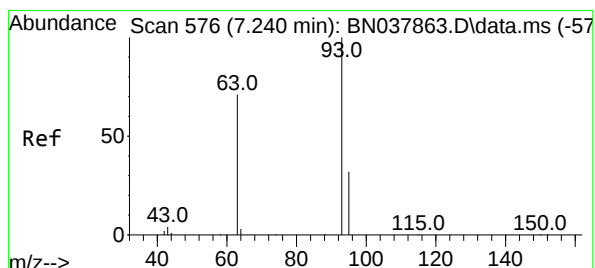
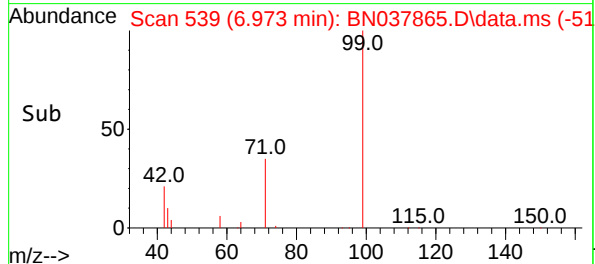
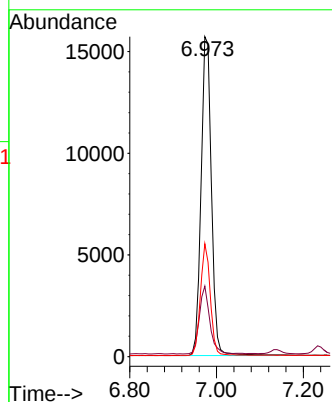
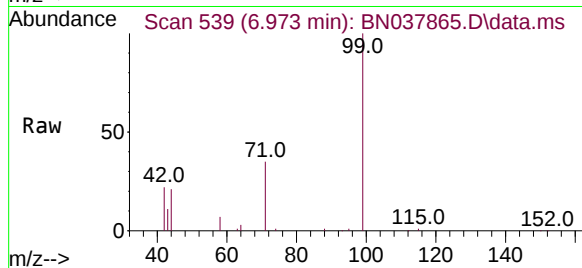




#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

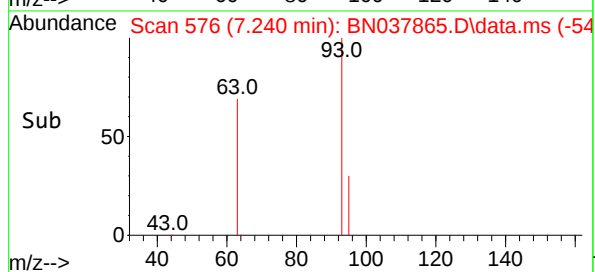
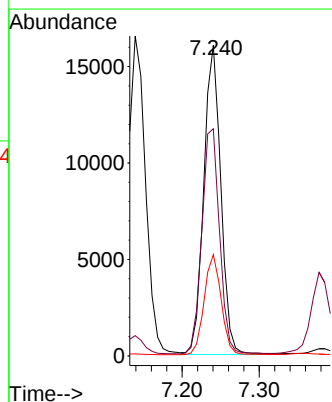
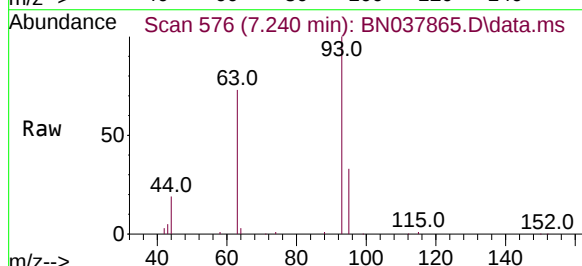
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

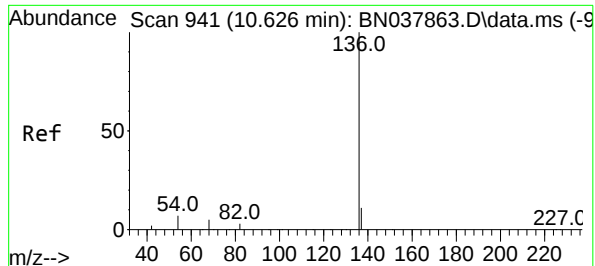
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 1.653 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.1	90.1
95	32.1	25.4	38.2

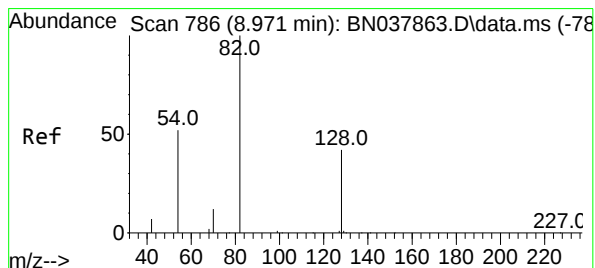
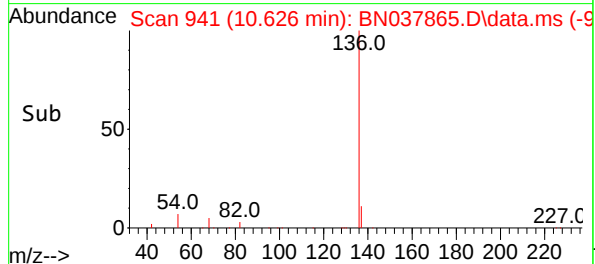
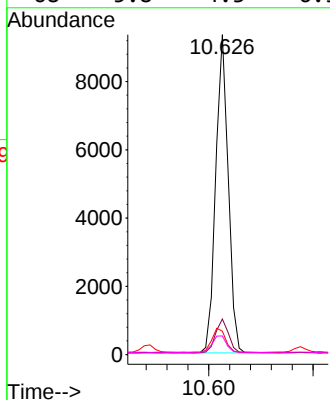
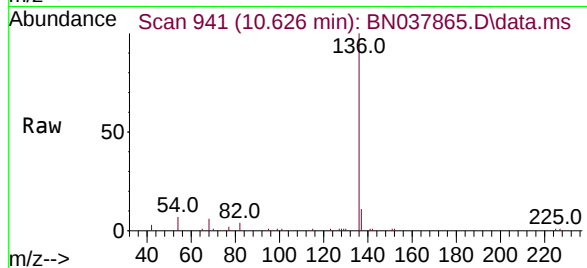




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

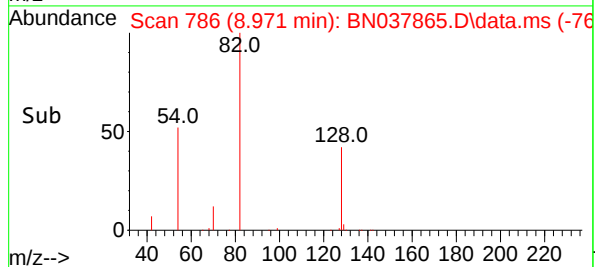
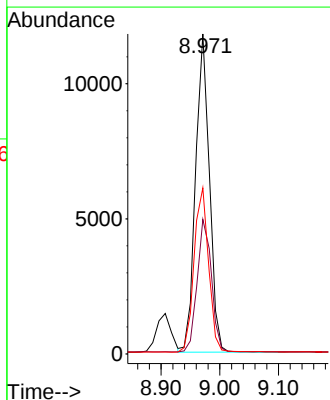
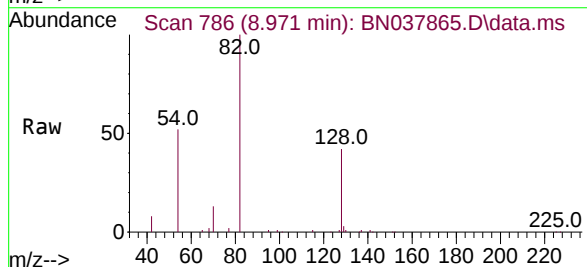
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

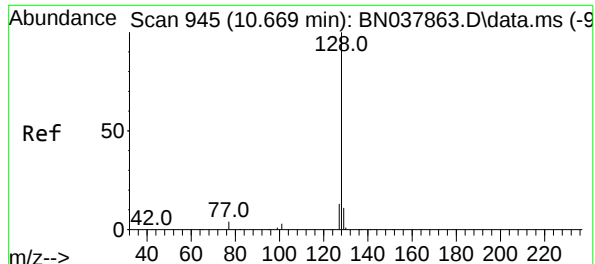
Tgt Ion:	136	Resp:	15494
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 1.627 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:	82	Resp:	19230
Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.8	52.2
54	51.9	42.2	63.2

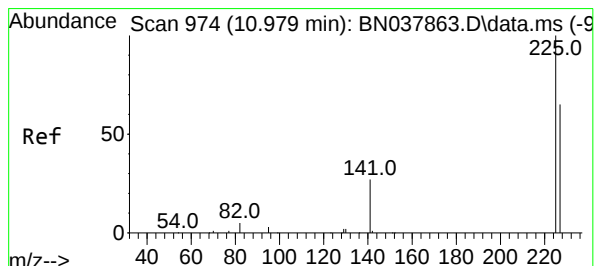
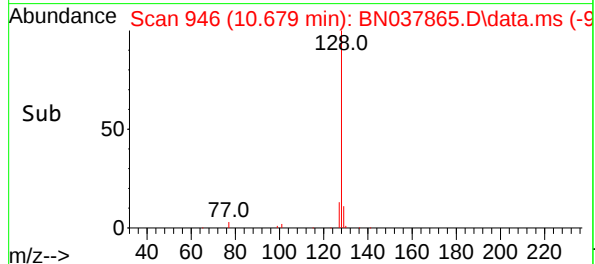
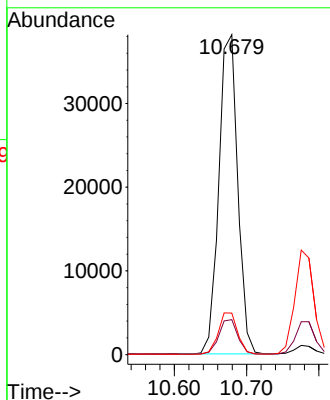
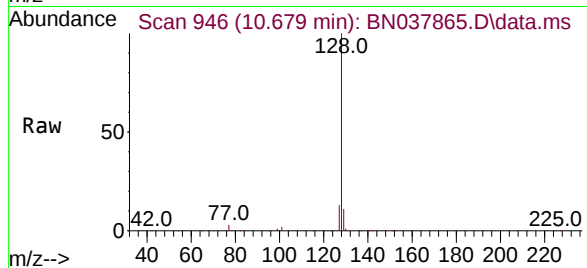




#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 945
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

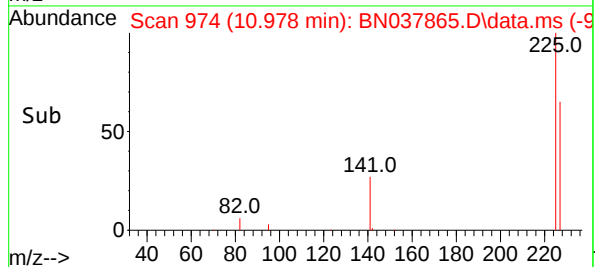
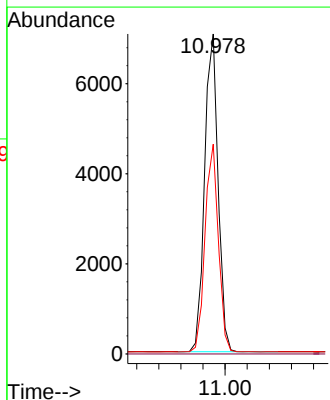
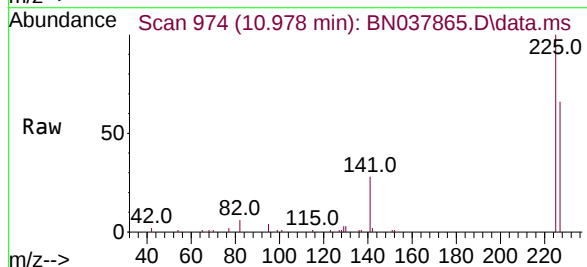
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

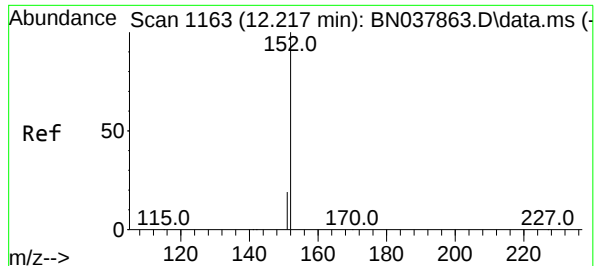
Tgt Ion:128 Resp: 69620
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.0 11.0 16.6



#10
Hexachlorobutadiene
Concen: 1.634 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:225 Resp: 11899
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 51.4 77.2

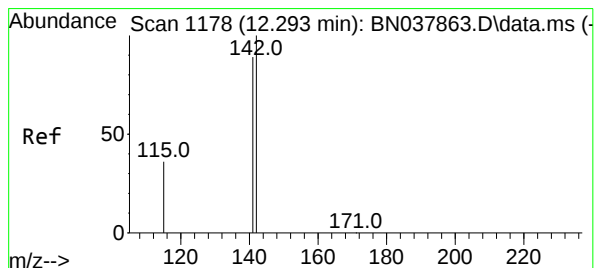
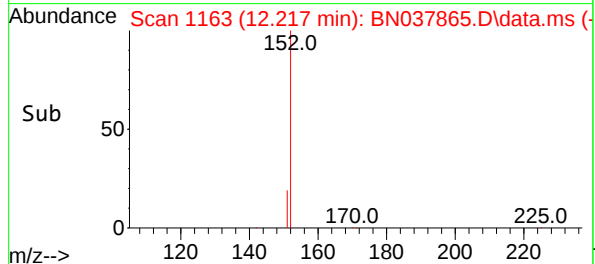
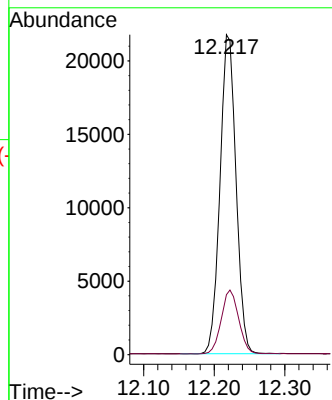
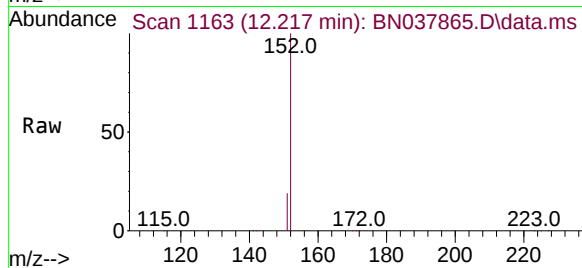




#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

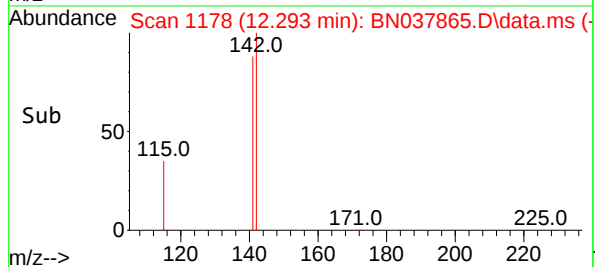
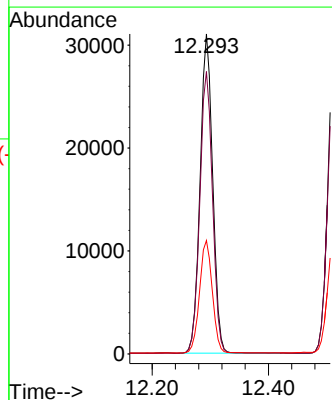
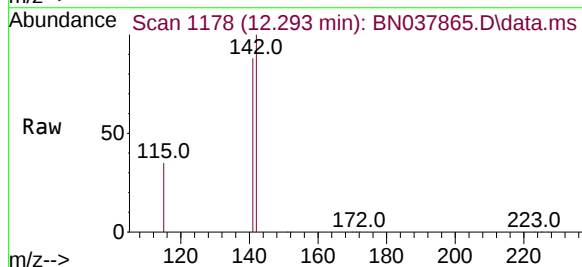
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

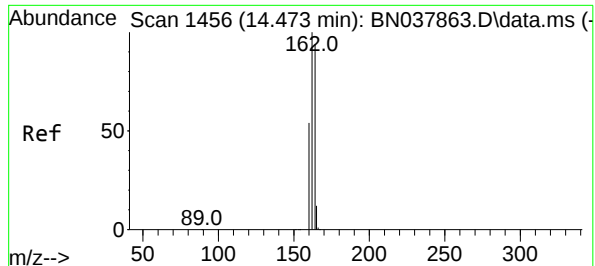
Tgt Ion:152 Resp: 34256
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704
Ion Ratio Lower Upper
142 100
141 88.2 71.2 106.8
115 35.4 29.7 44.5

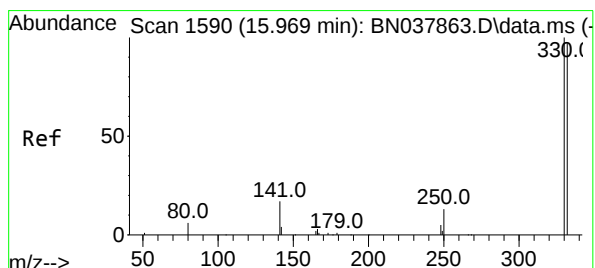
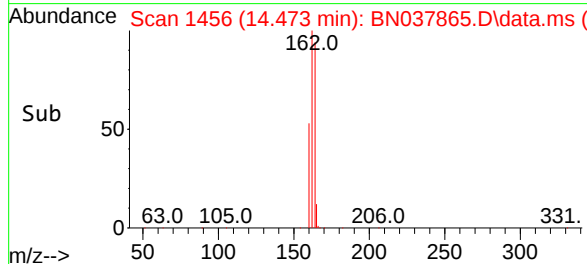
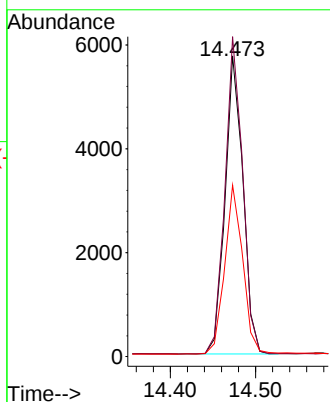
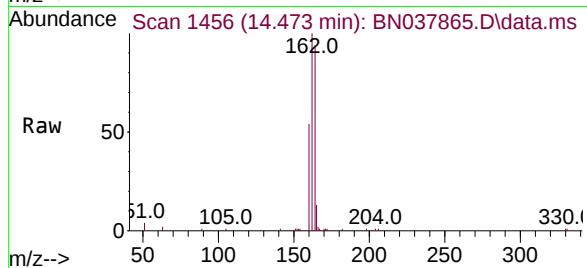




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

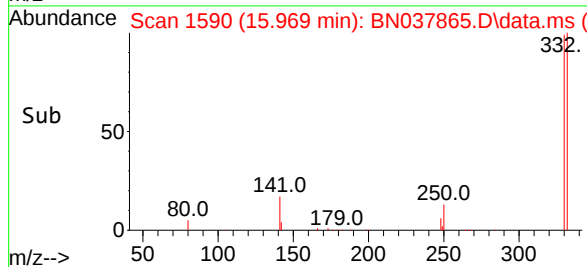
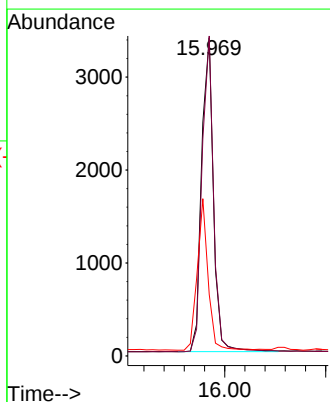
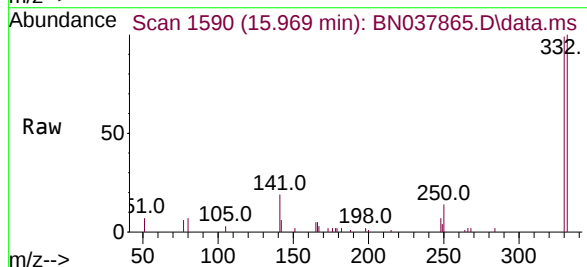
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

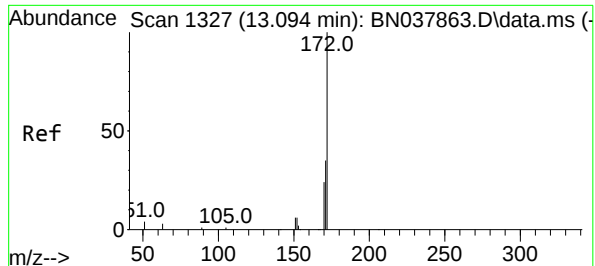
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.8	127.2
160	57.0	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 1.613 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.2	115.8
141	44.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 1.616 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

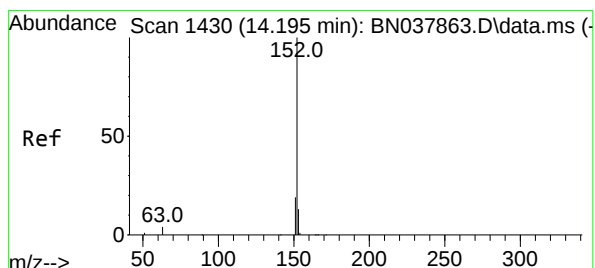
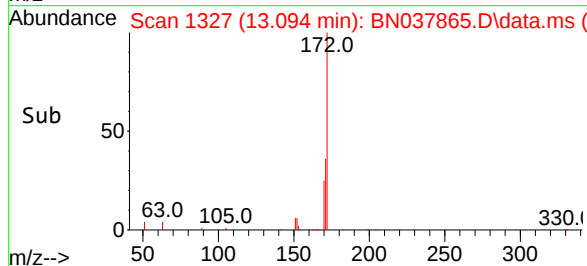
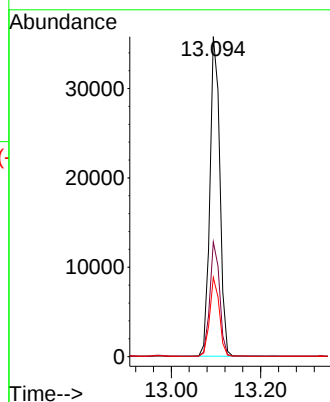
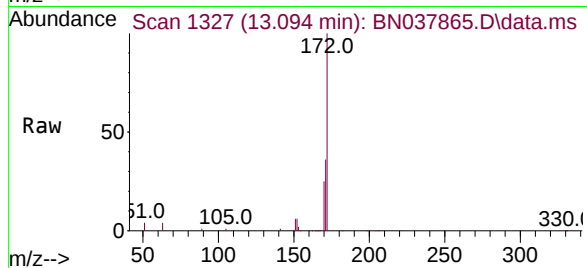
Tgt Ion:172 Resp: 55598

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.7 19.7 29.5



#16

Acenaphthylene

Concen: 1.680 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

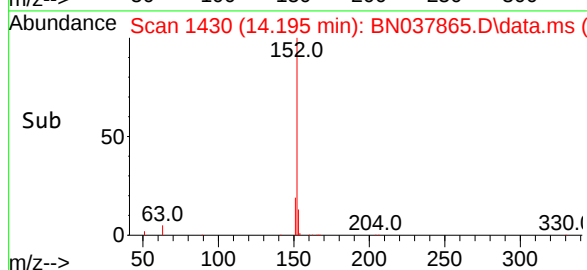
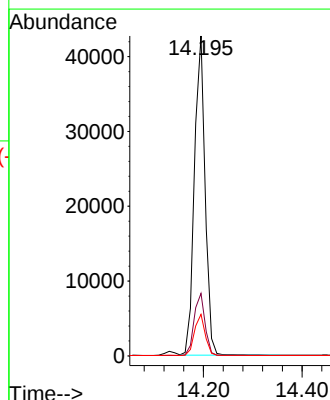
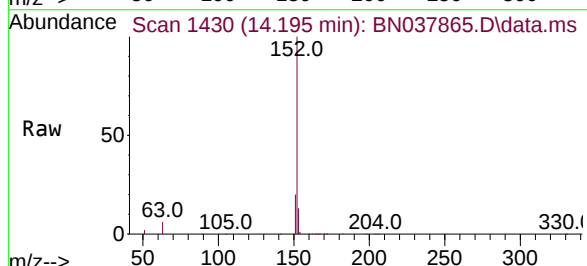
Tgt Ion:152 Resp: 64093

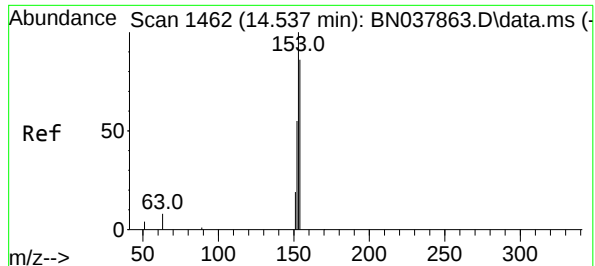
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7

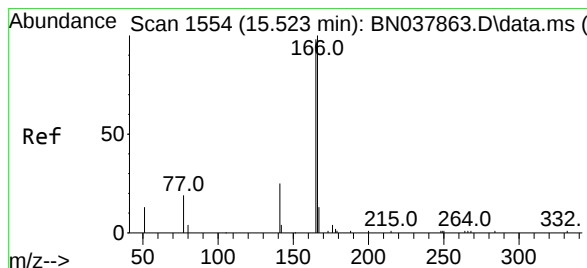
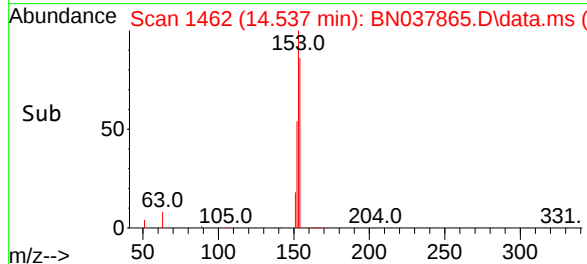
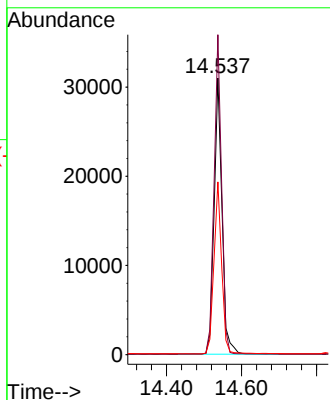
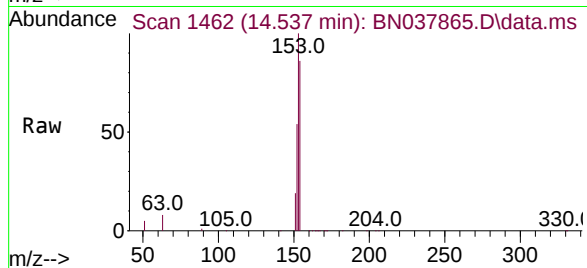




#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

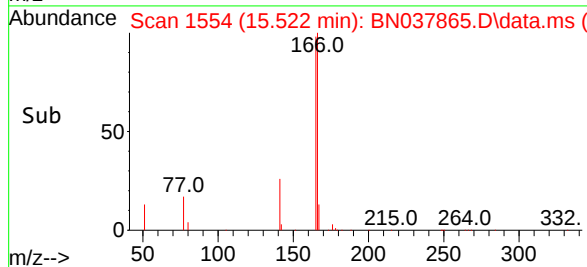
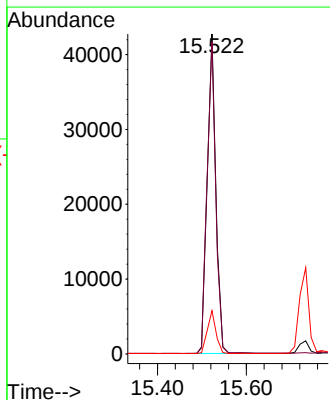
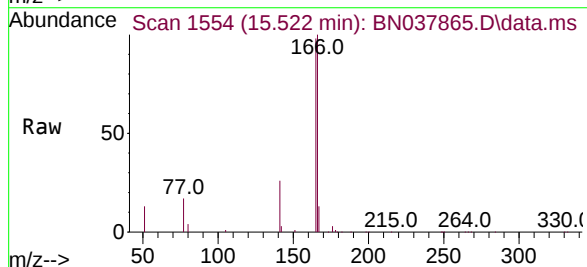
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

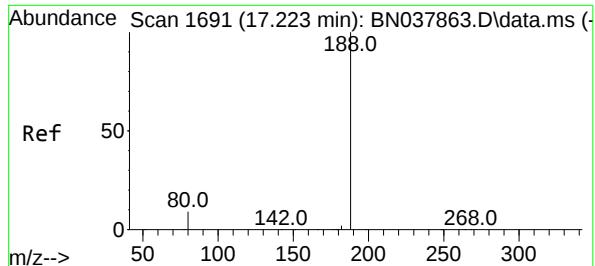
Tgt Ion:154 Resp: 45411
Ion Ratio Lower Upper
154 100
153 110.4 90.5 135.7
152 61.0 51.8 77.8



#18
Fluorene
Concen: 1.701 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:166 Resp: 55922
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

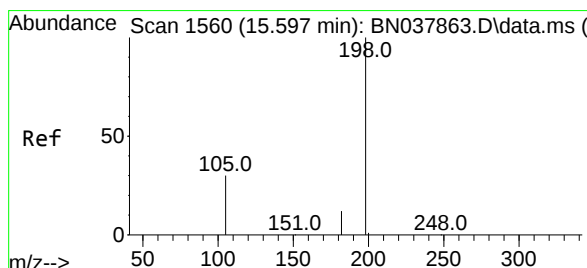
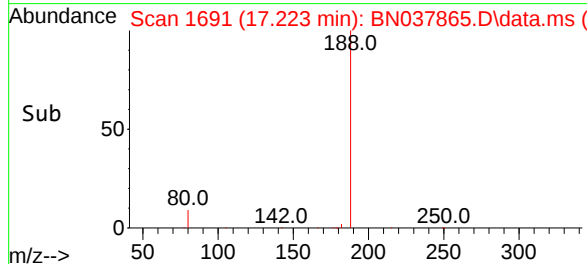
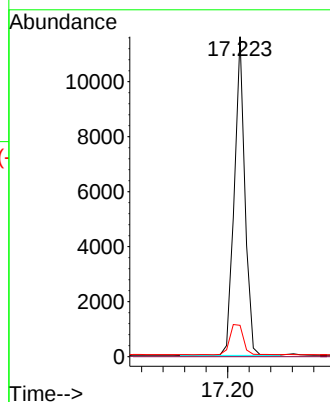
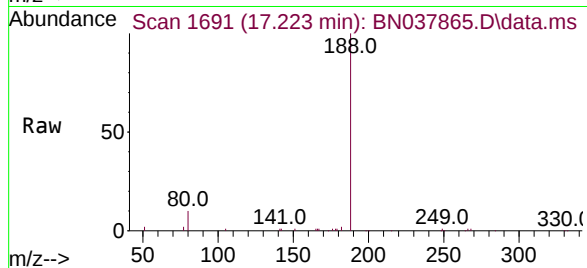
Tgt Ion:188 Resp: 15875

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.602 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

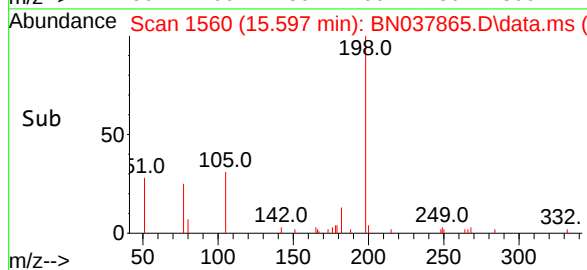
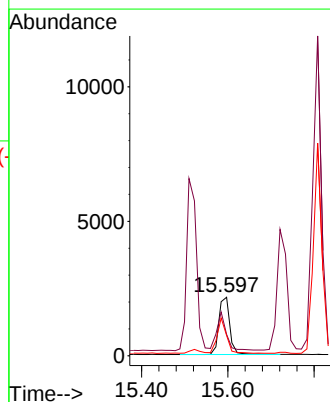
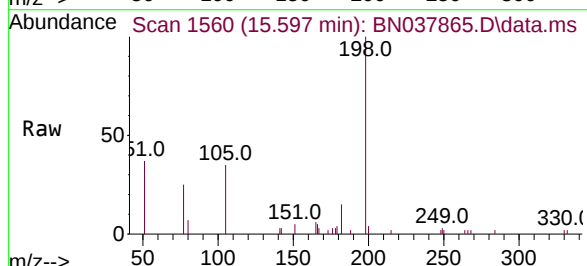
Tgt Ion:198 Resp: 3669

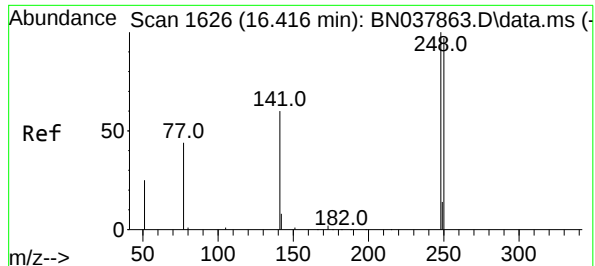
Ion Ratio Lower Upper

198 100

51 36.7 59.1 88.7#

105 34.9 41.3 61.9#

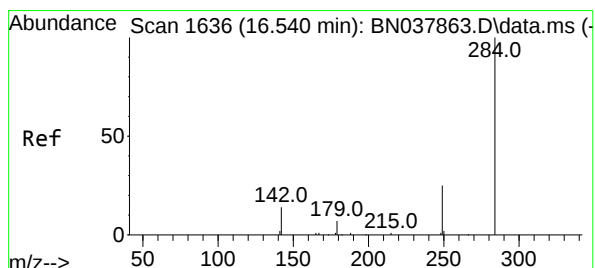
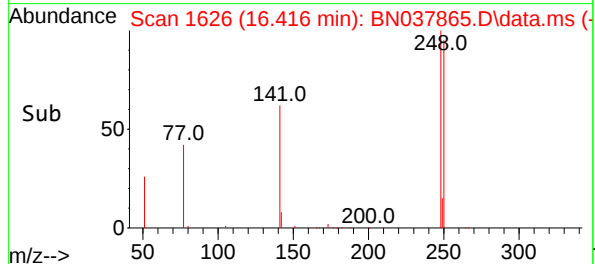
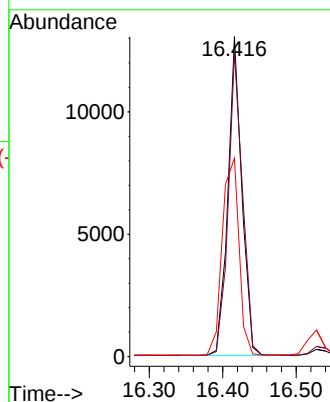
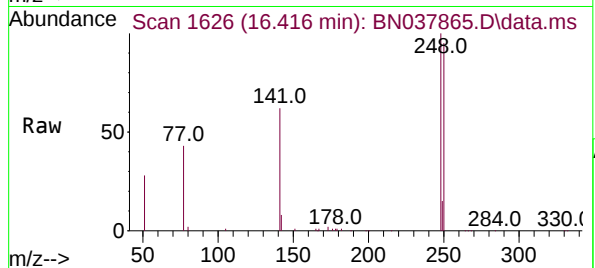




#21
4-Bromophenyl-phenylether
Concen: 1.670 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

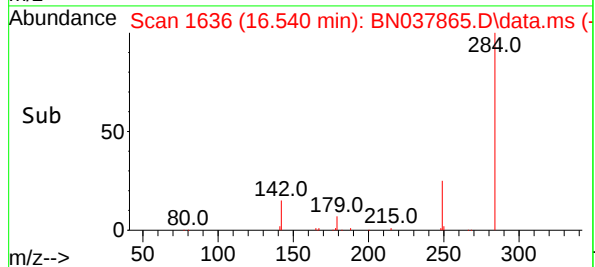
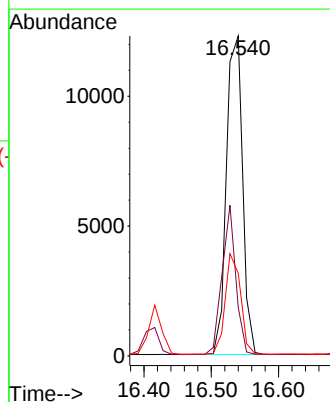
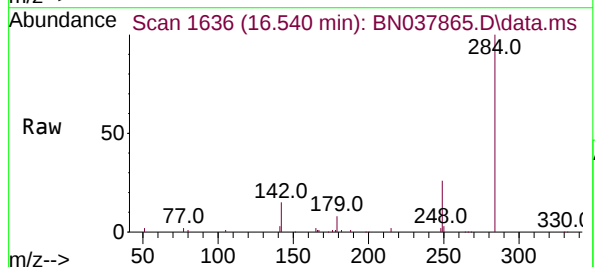
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

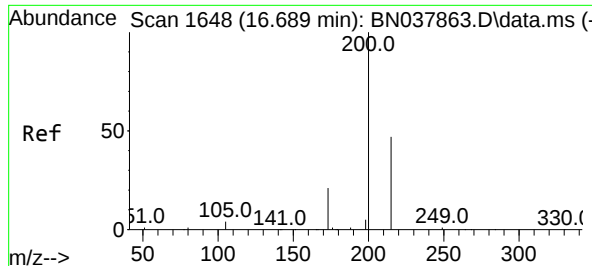
Tgt Ion:248 Resp: 17278
Ion Ratio Lower Upper
248 100
250 95.0 77.6 116.4
141 62.0 48.8 73.2



#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:284 Resp: 20548
Ion Ratio Lower Upper
284 100
142 39.6 30.9 46.3
249 29.9 23.9 35.9

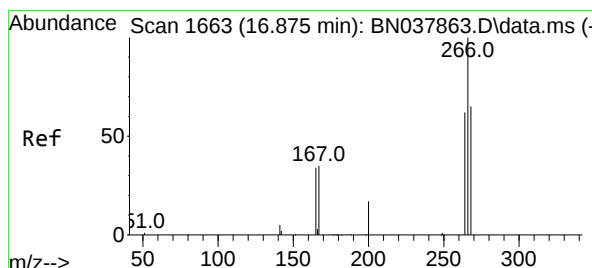
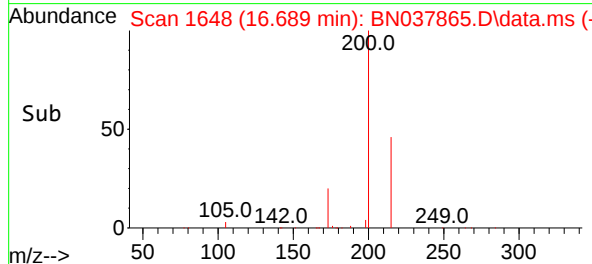
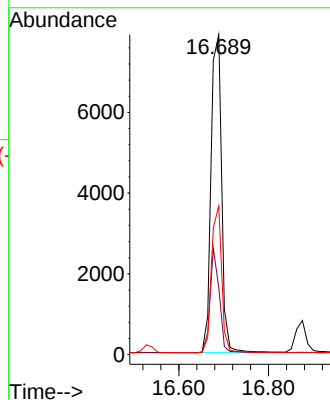
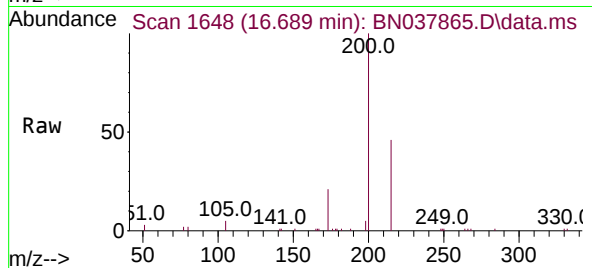




#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

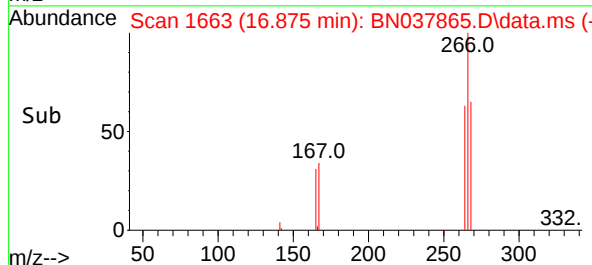
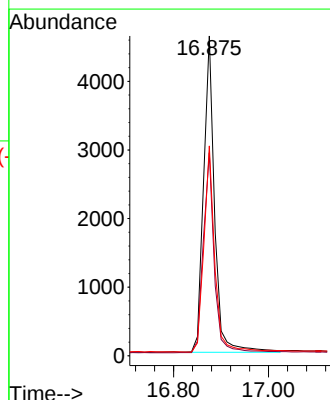
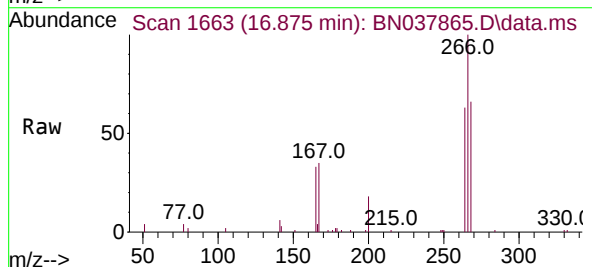
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

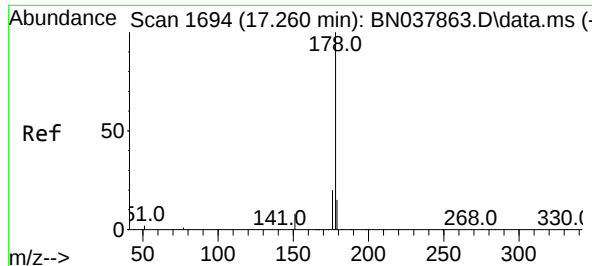
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0



#24
Pentachlorophenol
Concen: 1.718 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.9	76.3
268	64.6	54.3	81.5

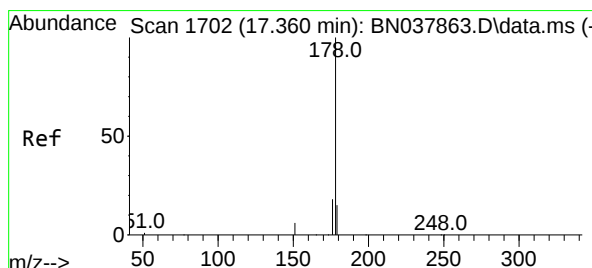
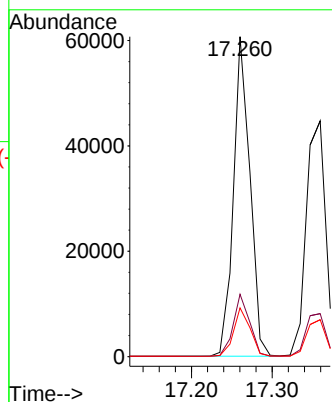
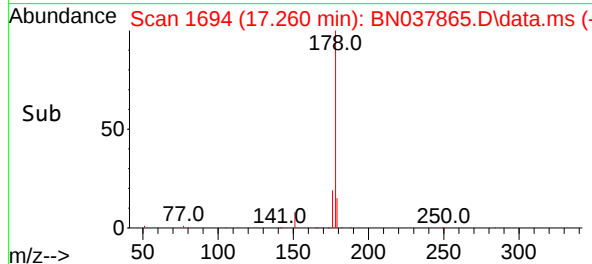
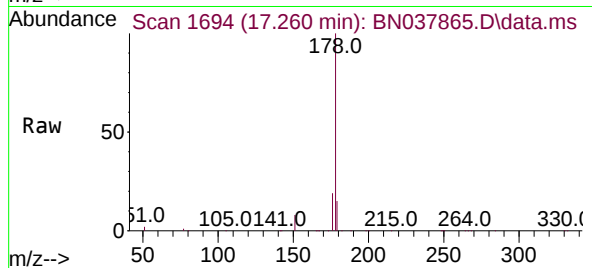




#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

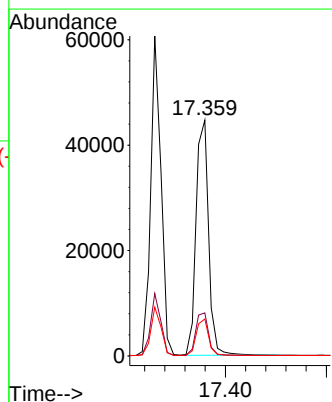
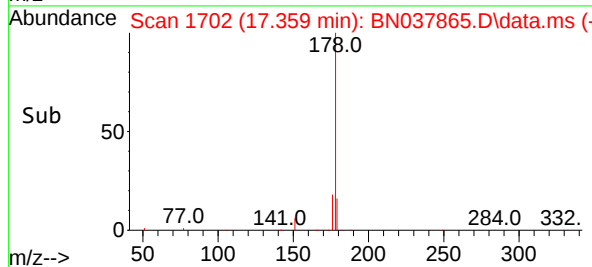
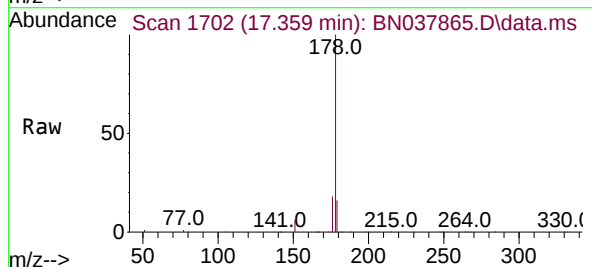
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

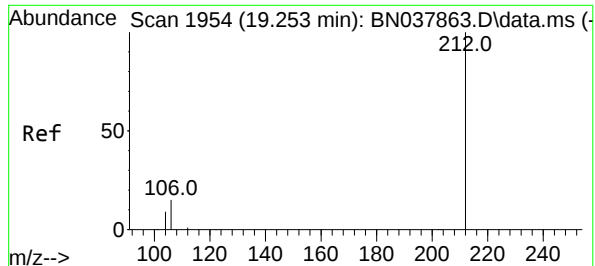
Tgt Ion:178 Resp: 86207
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.3 18.5



#26
Anthracene
Concen: 1.693 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:178 Resp: 76744
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

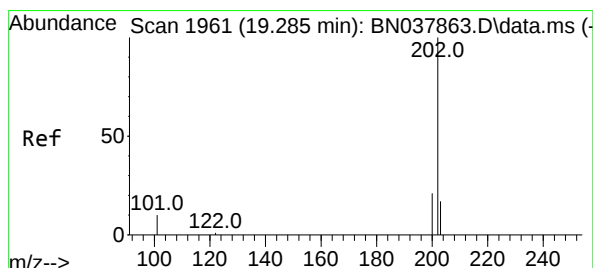
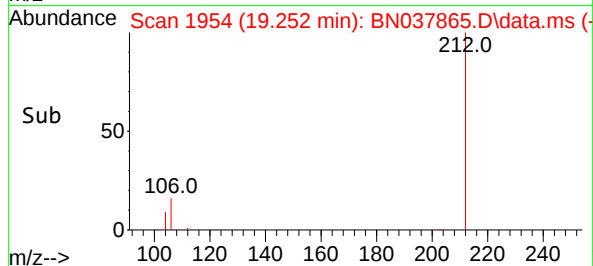
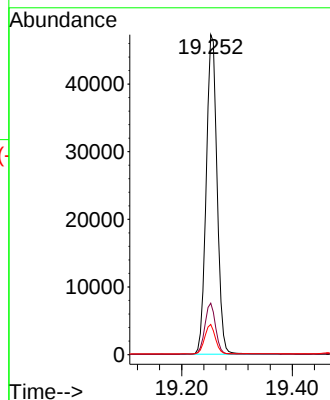
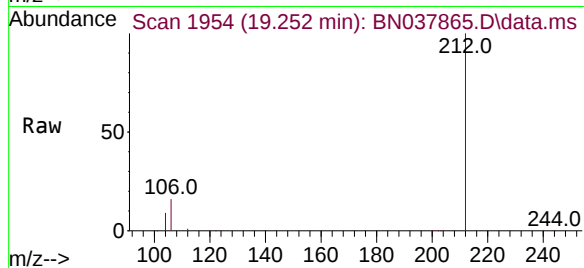
Tgt Ion:212 Resp: 63771

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 1.717 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

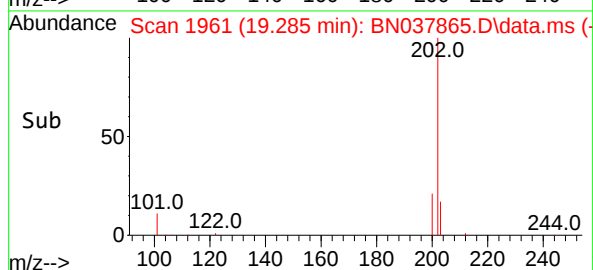
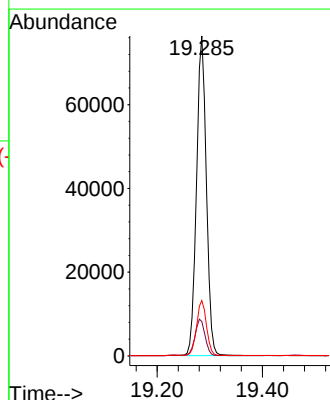
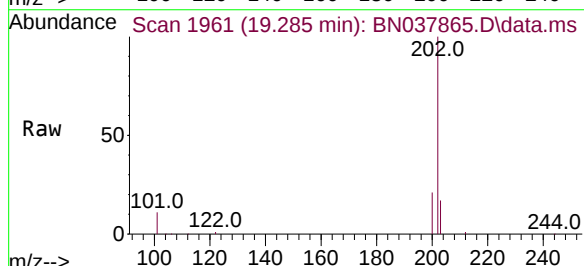
Tgt Ion:202 Resp: 98772

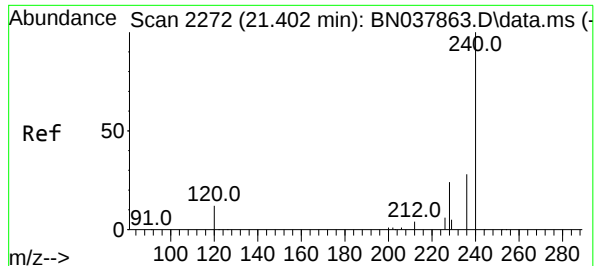
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

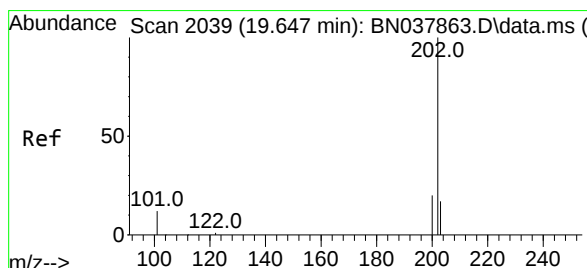
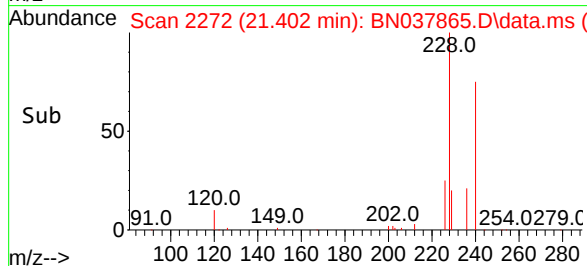
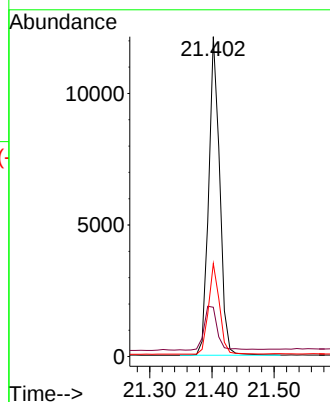
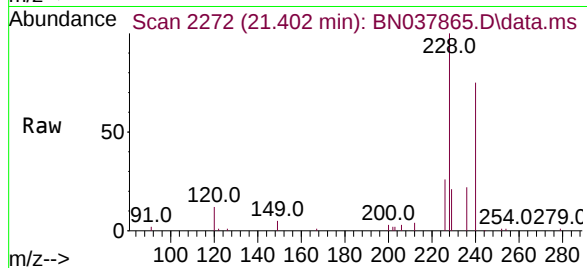
Tgt Ion:240 Resp: 14963

Ion Ratio Lower Upper

240 100

120 15.4 11.4 17.2

236 29.1 23.0 34.6



#30

Pyrene

Concen: 1.628 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

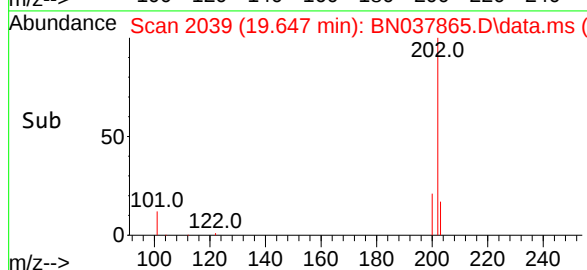
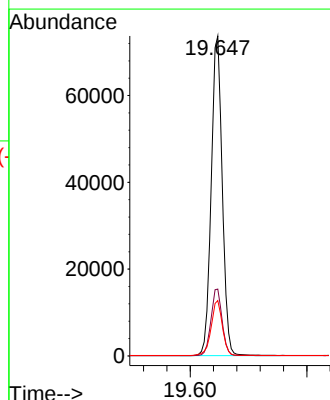
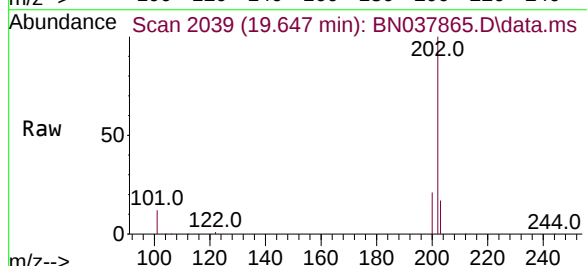
Tgt Ion:202 Resp: 96189

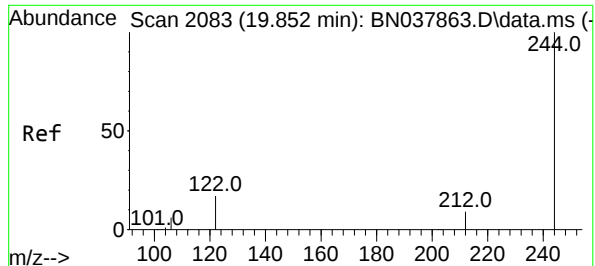
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.4





#31

Terphenyl-d14

Concen: 1.603 ng

RT: 19.852 min Scan# 2083

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

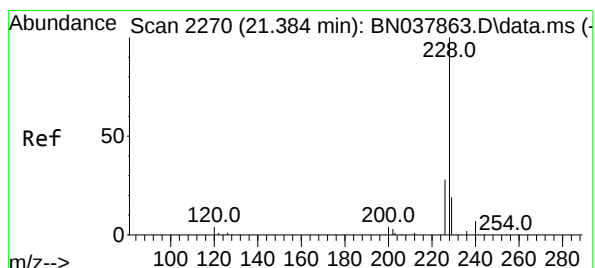
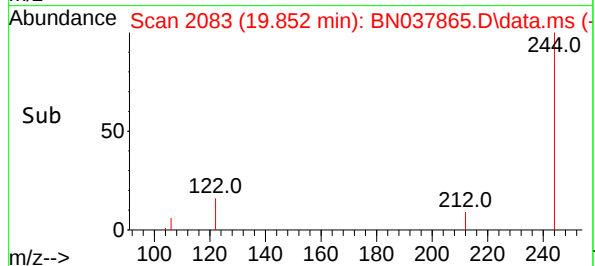
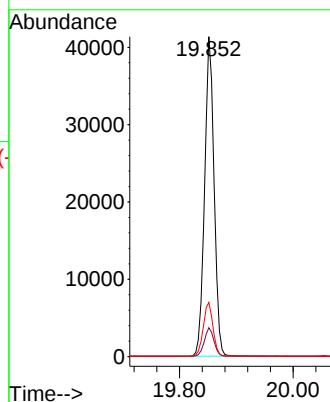
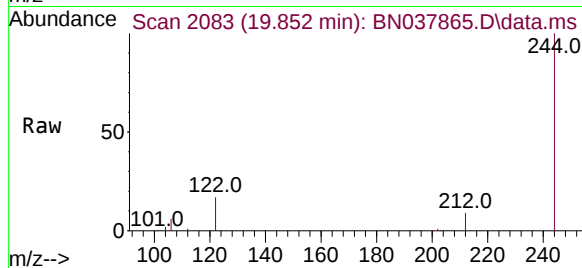
Tgt Ion:244 Resp: 47765

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

122 16.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 1.628 ng

RT: 21.384 min Scan# 2270

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

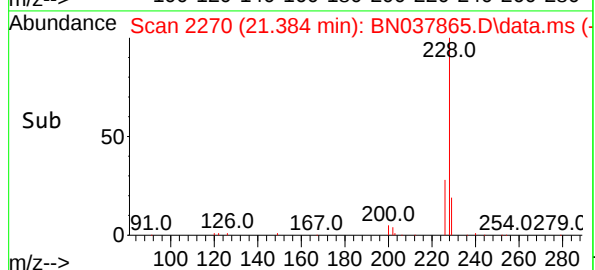
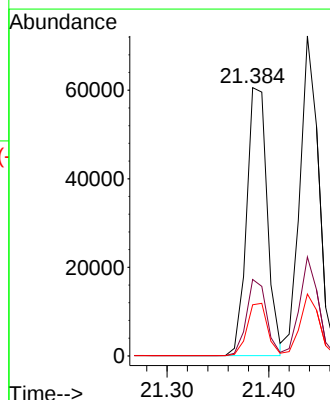
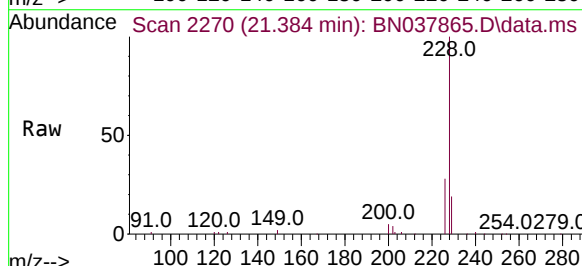
Tgt Ion:228 Resp: 85145

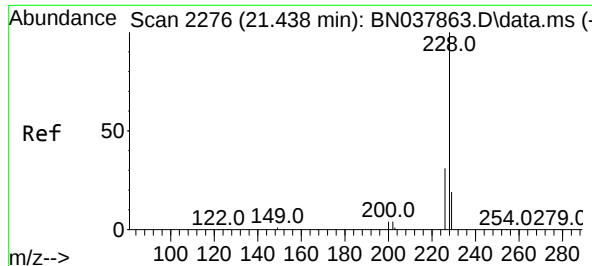
Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

229 19.1 15.6 23.4





#33

Chrysene

Concen: 1.650 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

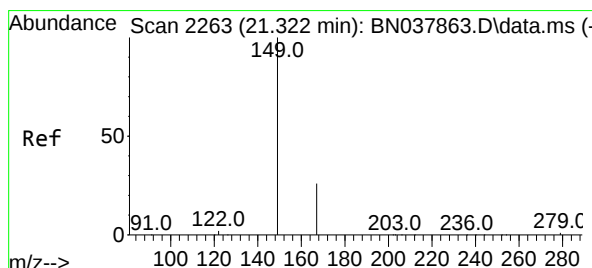
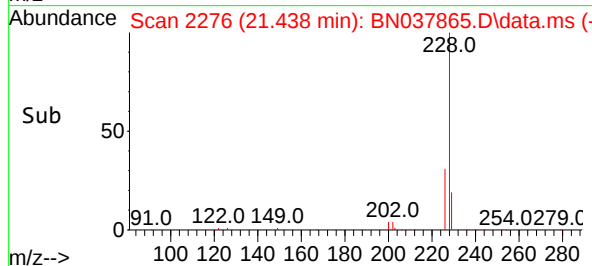
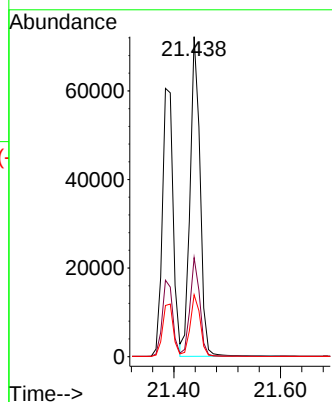
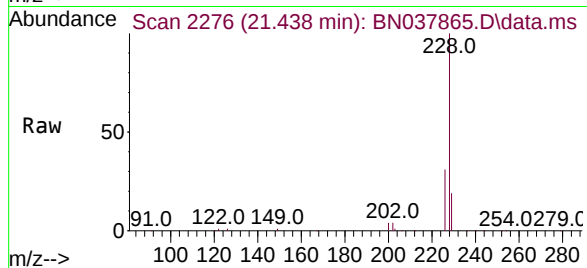
Tgt Ion:228 Resp: 93309

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.500 ng

RT: 21.330 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

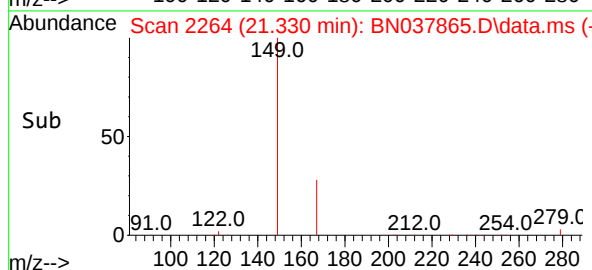
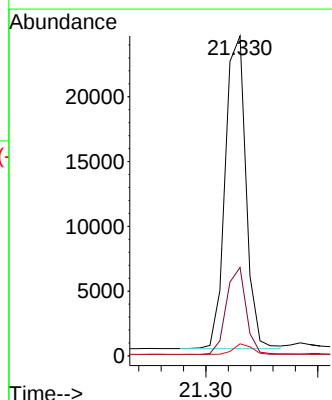
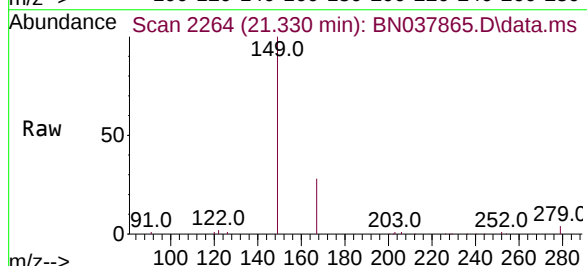
Tgt Ion:149 Resp: 31032

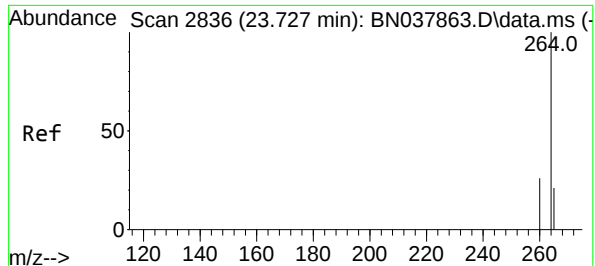
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.4 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.735 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037865.D

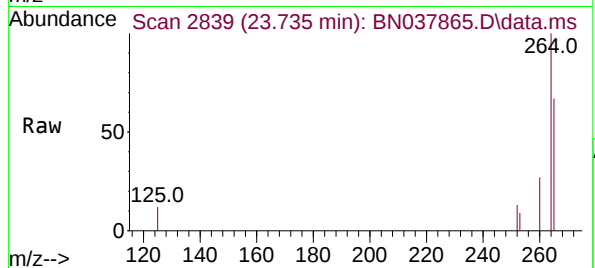
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



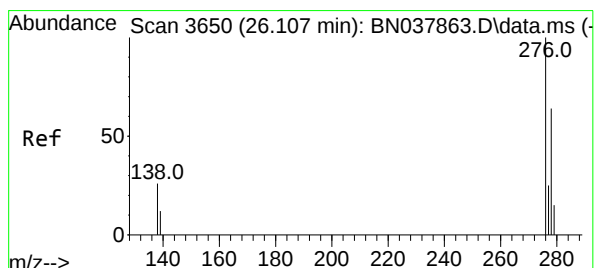
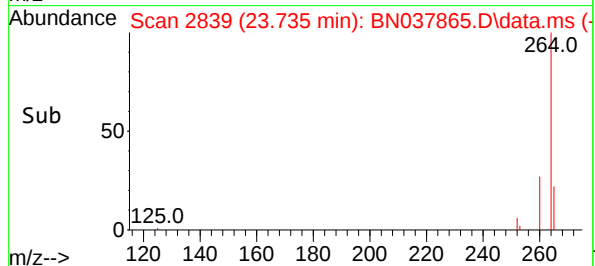
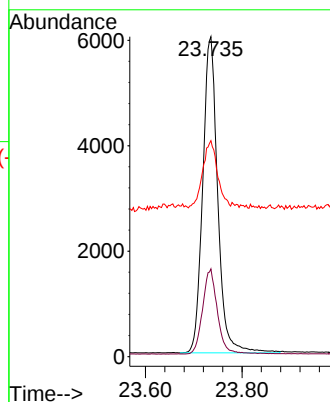
Tgt Ion:264 Resp: 12917

Ion Ratio Lower Upper

264 100

260 27.4 21.5 32.3

265 67.5 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

RT: 26.112 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

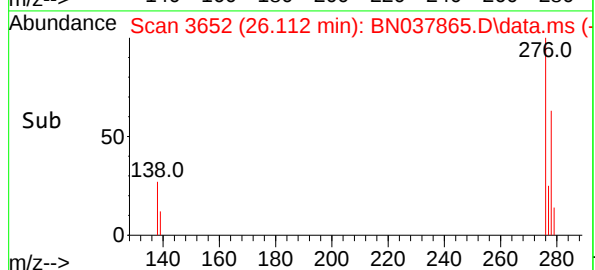
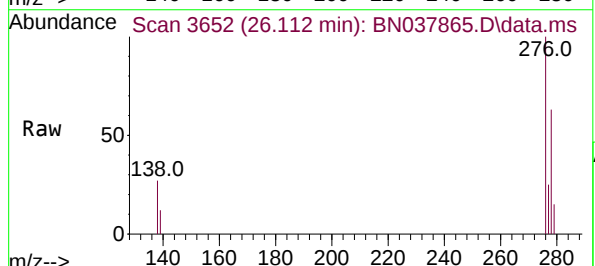
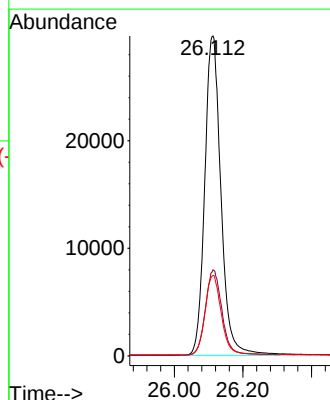
Tgt Ion:276 Resp: 97476

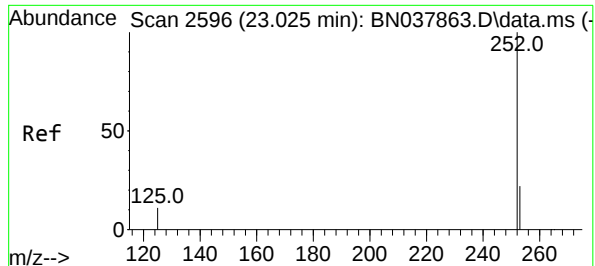
Ion Ratio Lower Upper

276 100

138 27.1 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 1.679 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

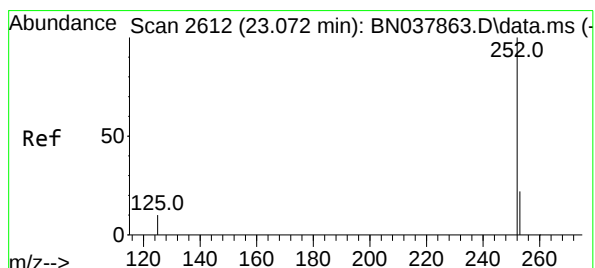
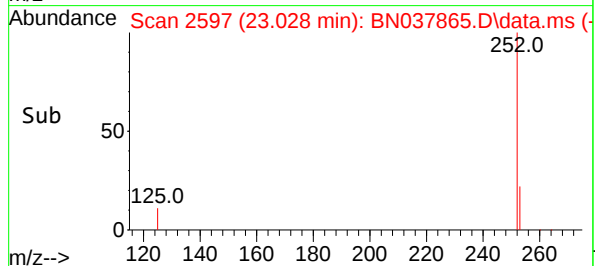
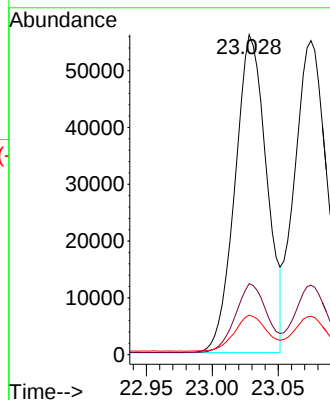
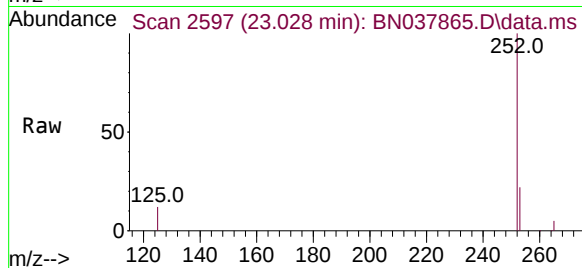
Tgt Ion:252 Resp: 93525

Ion Ratio Lower Upper

252 100

253 22.2 19.4 29.0

125 12.3 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 1.728 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

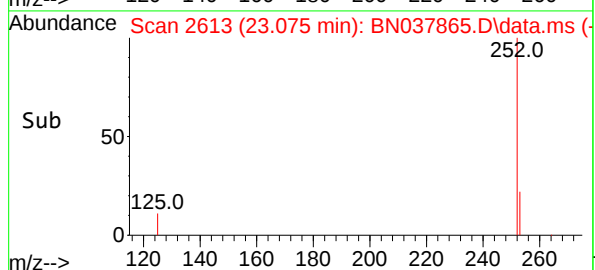
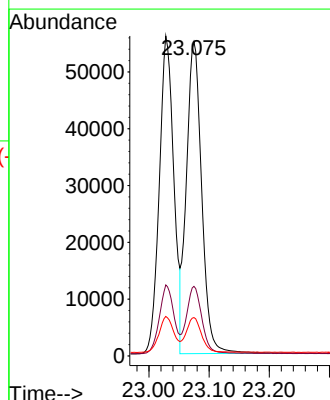
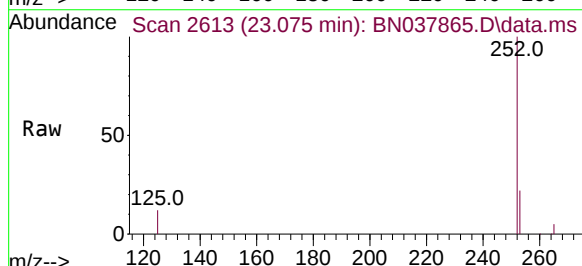
Tgt Ion:252 Resp: 96868

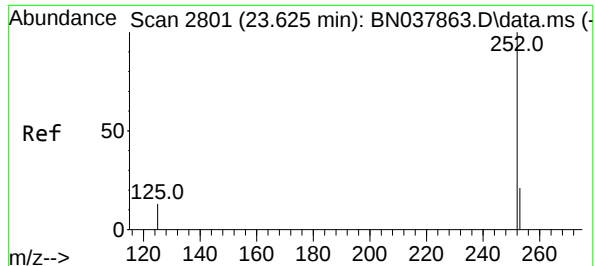
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.657 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037865.D

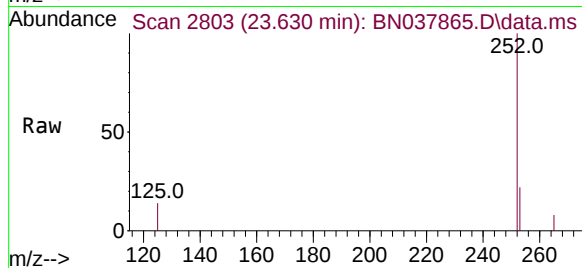
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



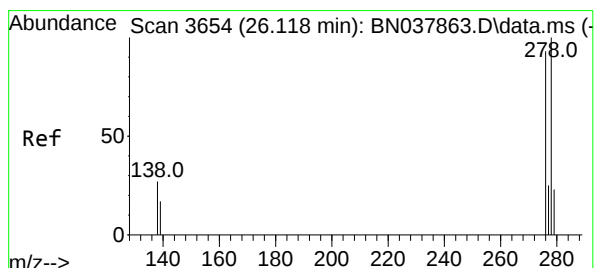
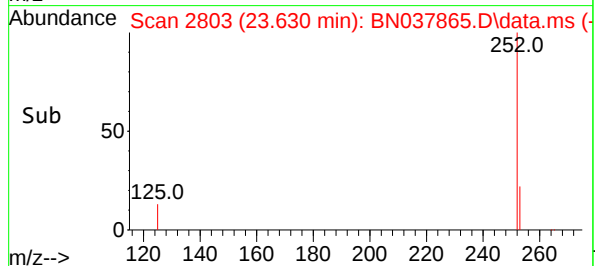
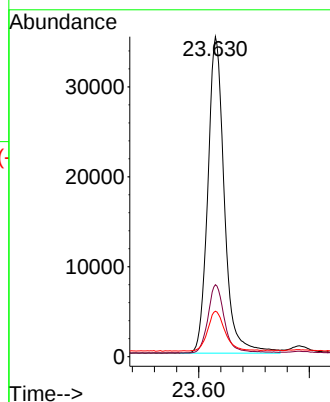
Tgt Ion:252 Resp: 73009

Ion Ratio Lower Upper

252 100

253 22.5 20.6 30.8

125 14.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.676 ng

RT: 26.127 min Scan# 3657

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

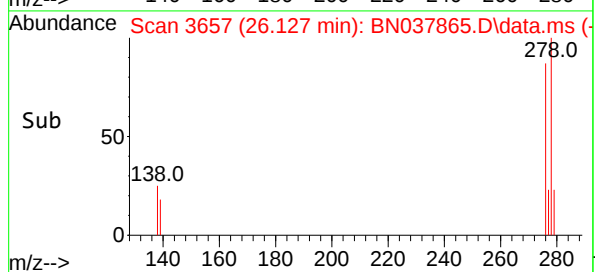
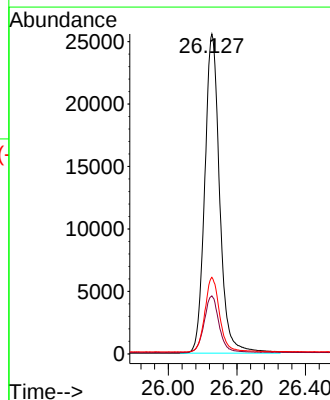
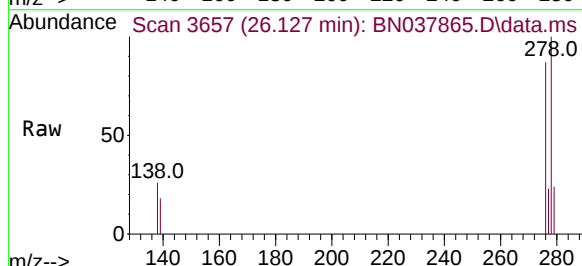
Tgt Ion:278 Resp: 77237

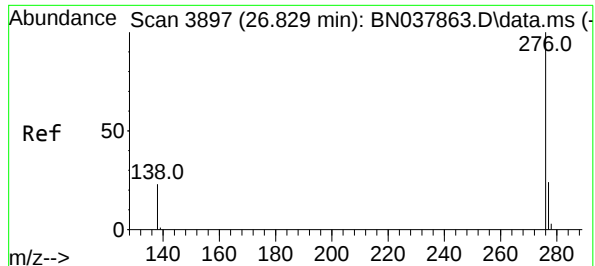
Ion Ratio Lower Upper

278 100

139 18.1 15.4 23.2

279 23.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 1.623 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037865.D

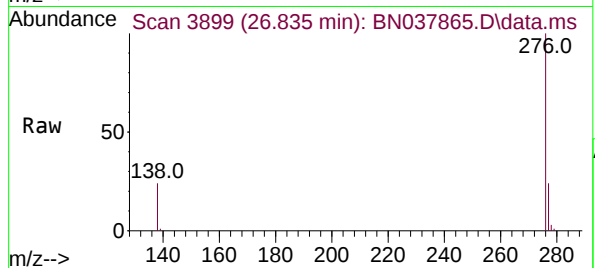
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



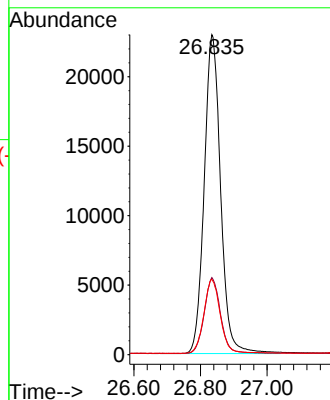
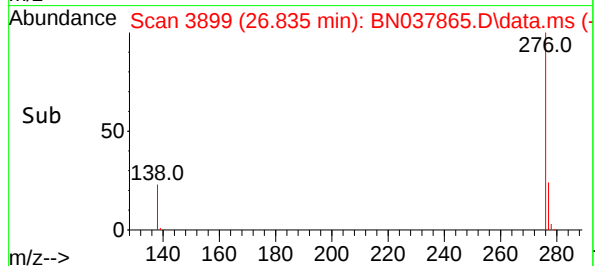
Tgt Ion:276 Resp: 78576

Ion Ratio Lower Upper

276 100

277 24.1 20.2 30.4

138 23.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037866.D
 Acq On : 23 Sep 2025 15:15
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

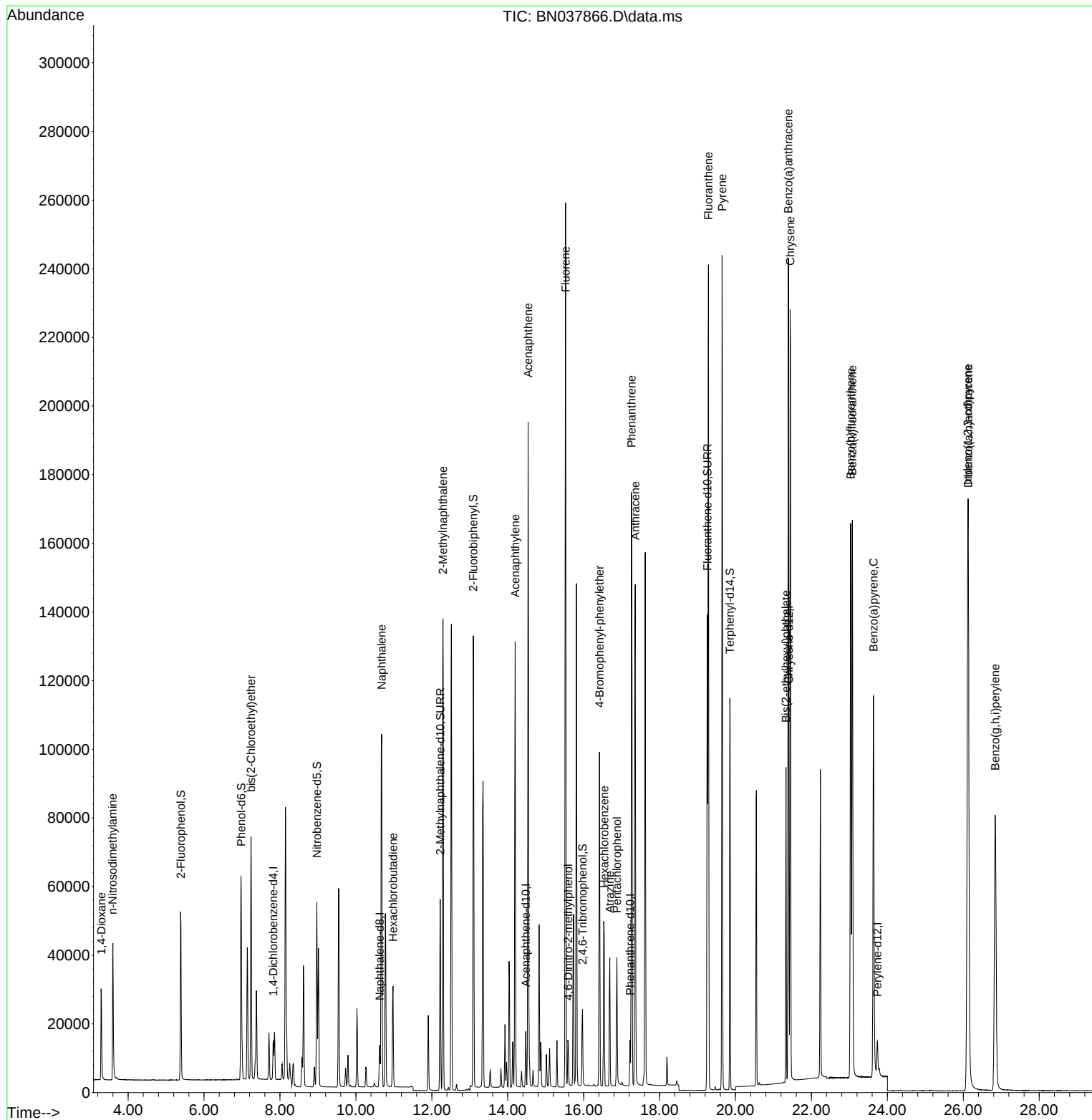
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng	0.00
29) Chrysene-d12	21.402	240	16309	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13684	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	40521	3.237	ng	0.00
5) Phenol-d6	6.980	99	54237	3.297	ng	0.00
8) Nitrobenzene-d5	8.971	82	39859	3.353	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	73211	3.382	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	12677	3.642	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	113791	3.223	ng	0.00
27) Fluoranthene-d10	19.257	212	140845	3.451	ng	0.00
31) Terphenyl-d14	19.852	244	105582	3.250	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	18009	3.234	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.593	42	24113	3.255	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	49318	3.230	ng	100
9) Naphthalene	10.680	128	141732	3.301	ng	98
10) Hexachlorobutadiene	10.979	225	23493	3.208	ng	# 99
12) 2-Methylnaphthalene	12.293	142	96667	3.447	ng	99
16) Acenaphthylene	14.195	152	134565	3.437	ng	100
17) Acenaphthene	14.537	154	94611	3.392	ng	95
18) Fluorene	15.522	166	118468	3.511	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	9172	3.211	ng	# 62
21) 4-Bromophenyl-phenylether	16.416	248	35637	3.370	ng	96
22) Hexachlorobenzene	16.540	284	41902	3.269	ng	100
23) Atrazine	16.689	200	29112	3.616	ng	97
24) Pentachlorophenol	16.875	266	17645	4.011	ng	97
25) Phenanthrene	17.260	178	178985	3.352	ng	99
26) Anthracene	17.360	178	165527	3.573	ng	100
28) Fluoranthene	19.285	202	209920	3.570	ng	99
30) Pyrene	19.647	202	208135	3.232	ng	100
32) Benzo(a)anthracene	21.393	228	193464	3.394	ng	98
33) Chrysene	21.438	228	197283	3.201	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	74195	3.291	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	218487	3.494	ng	100
37) Benzo(b)fluoranthene	23.031	252	202282	3.428	ng	# 93
38) Benzo(k)fluoranthene	23.078	252	209819	3.534	ng	# 93
39) Benzo(a)pyrene	23.636	252	163321	3.499	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	173724	3.558	ng	96
41) Benzo(g,h,i)perylene	26.841	276	176617	3.443	ng	97

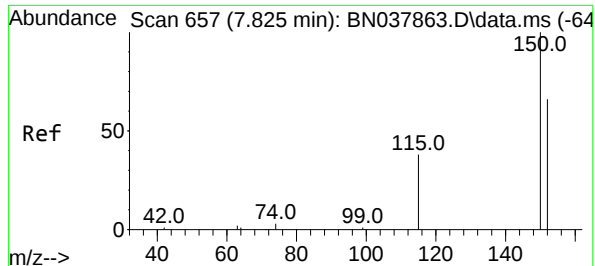
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 23 Sep 2025 15:15
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

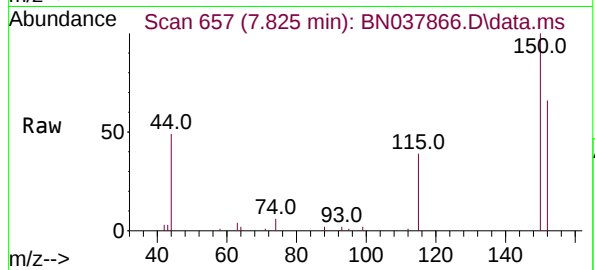
Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



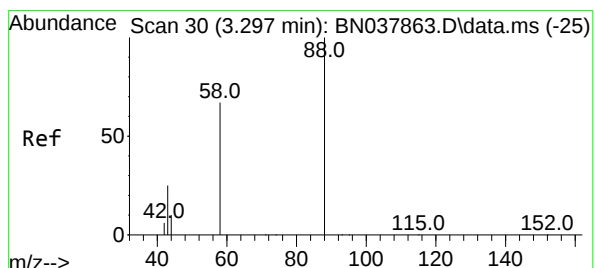
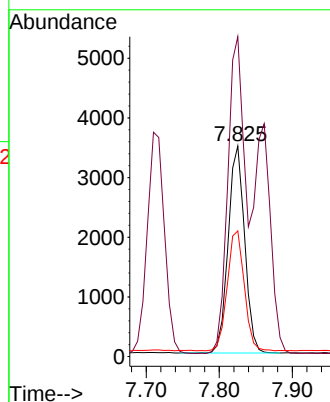
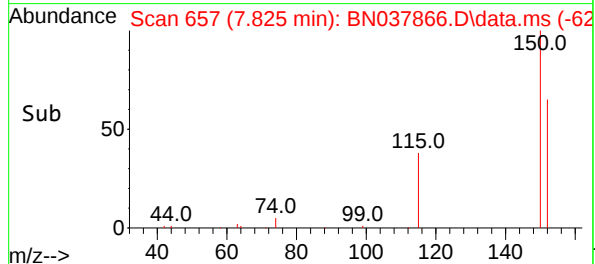


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

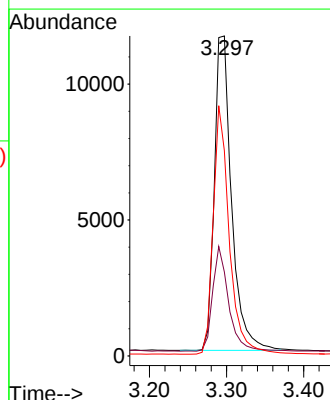
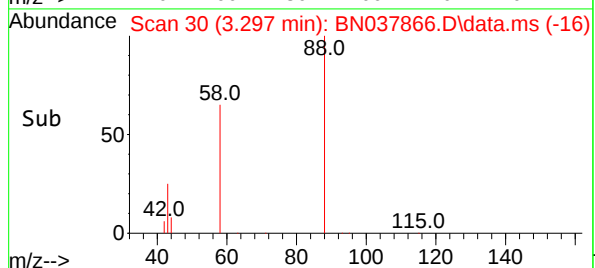
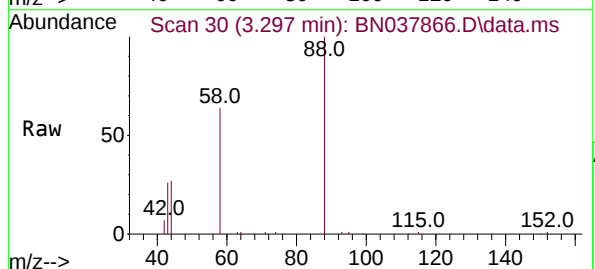


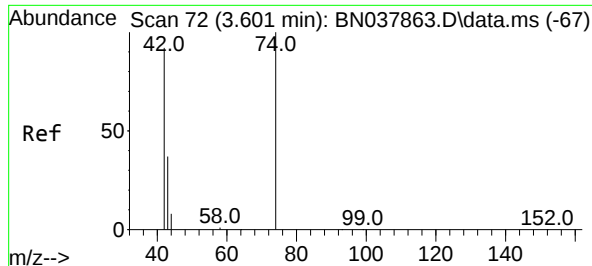
Tgt Ion:152 Resp: 5486
Ion Ratio Lower Upper
152 100
150 151.9 121.0 181.4
115 59.6 47.4 71.0



#2
1,4-Dioxane
Concen: 3.234 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 88 Resp: 18009
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 73.6 58.9 88.3

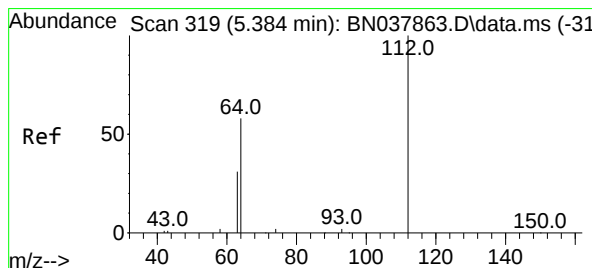
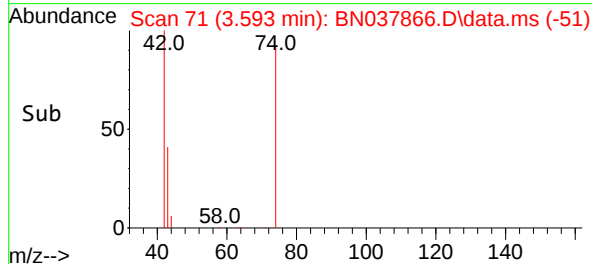
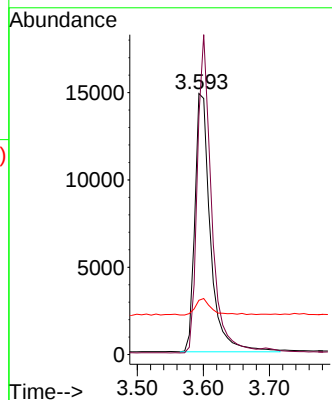
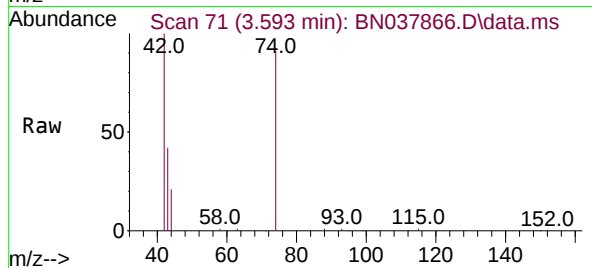




#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

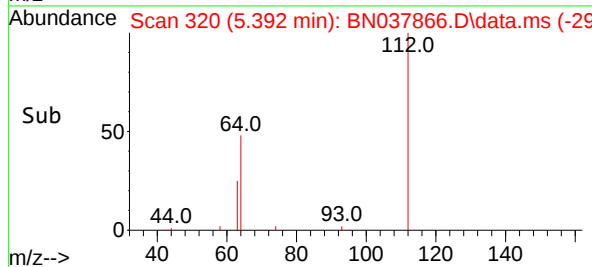
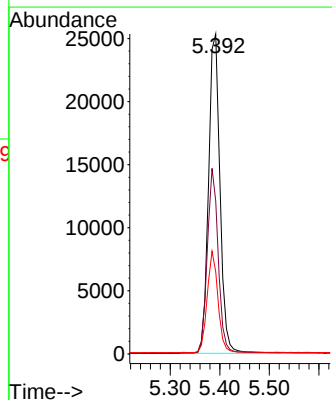
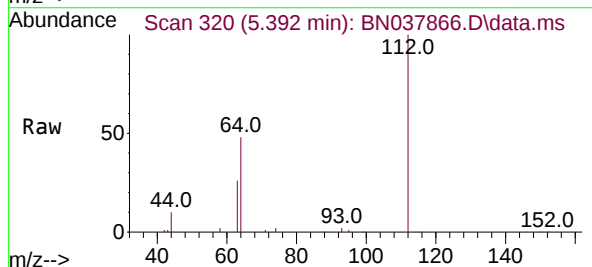
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

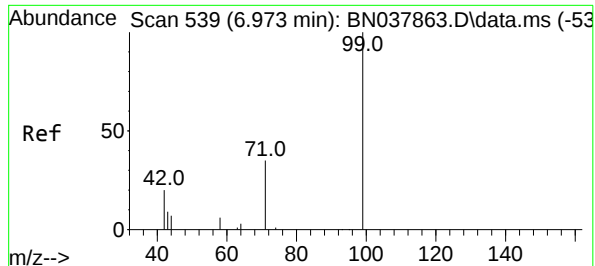
Tgt Ion: 42 Resp: 24113
Ion Ratio Lower Upper
42 100
74 112.5 93.4 140.0
44 6.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 3.237 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 112 Resp: 40521
Ion Ratio Lower Upper
112 100
64 55.6 44.6 66.8
63 30.1 24.9 37.3

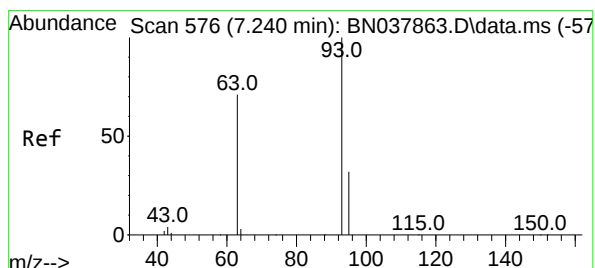
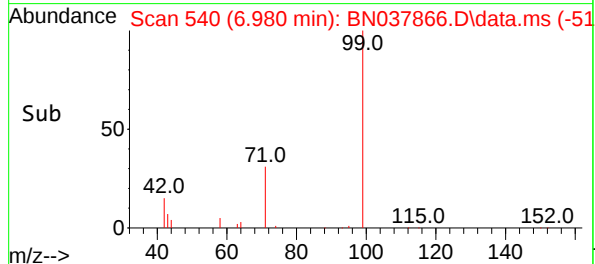
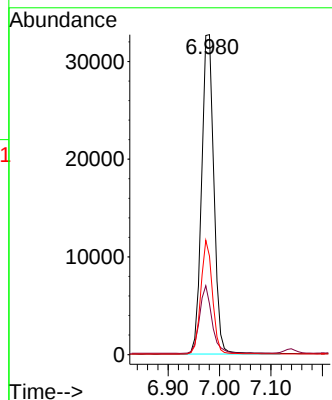
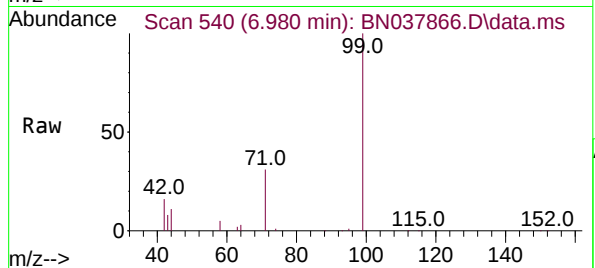




#5
Phenol-d6
Concen: 3.297 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

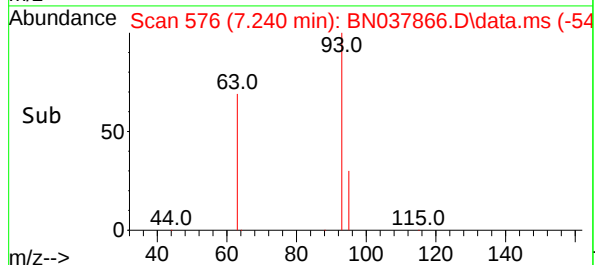
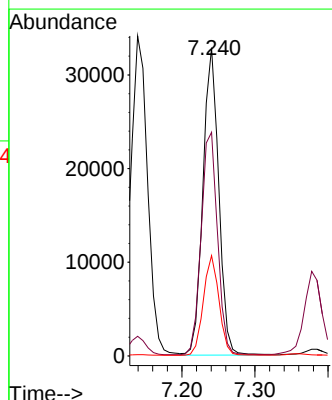
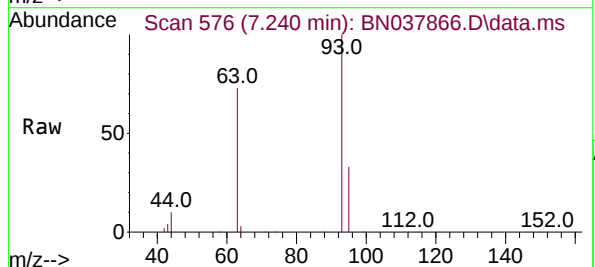
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

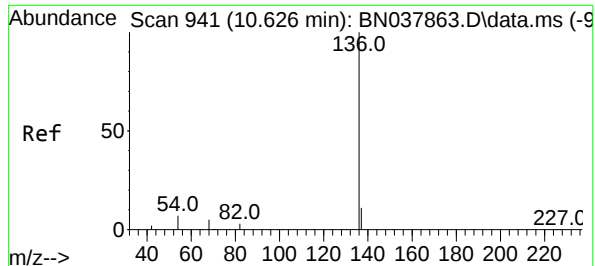
Tgt Ion: 99 Resp: 54237
Ion Ratio Lower Upper
99 100
42 21.2 17.2 25.8
71 33.7 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 3.230 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 93 Resp: 49318
Ion Ratio Lower Upper
93 100
63 74.8 60.1 90.1
95 32.1 25.4 38.2

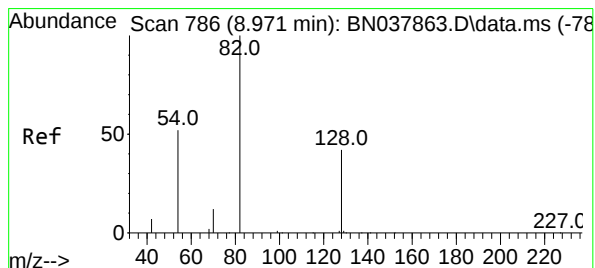
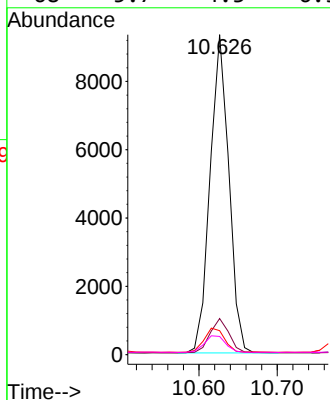
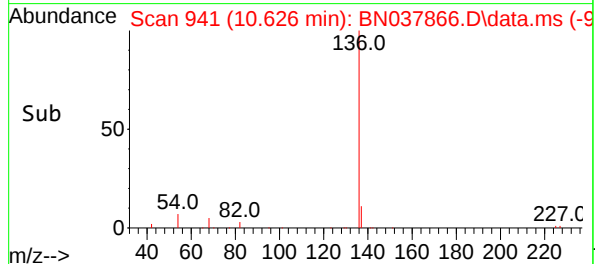
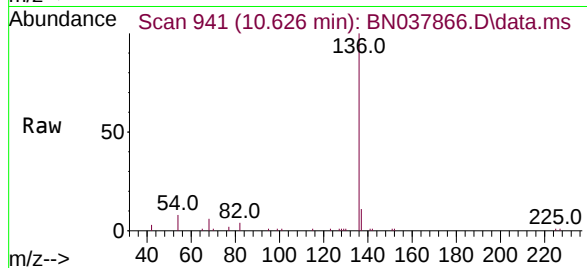




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

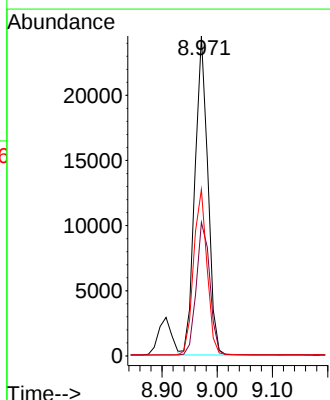
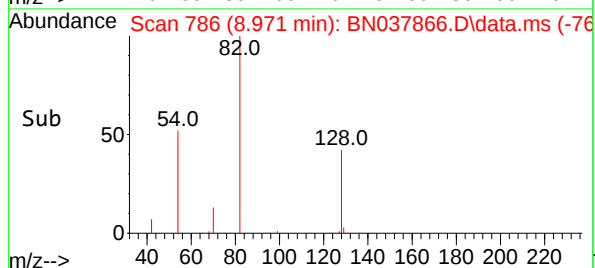
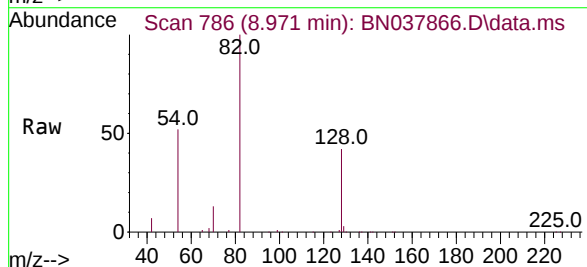
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

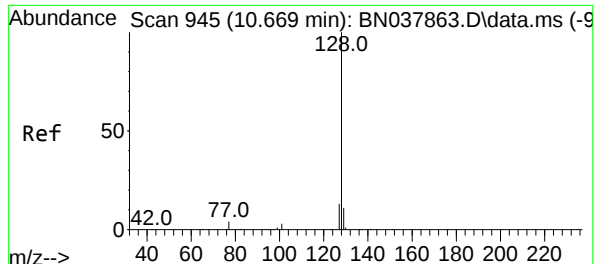
Tgt Ion:	136	Resp:	15583
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 3.353 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:	82	Resp:	39859
Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.8	52.2
54	52.0	42.2	63.2

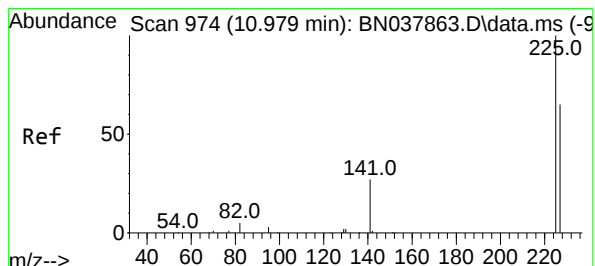
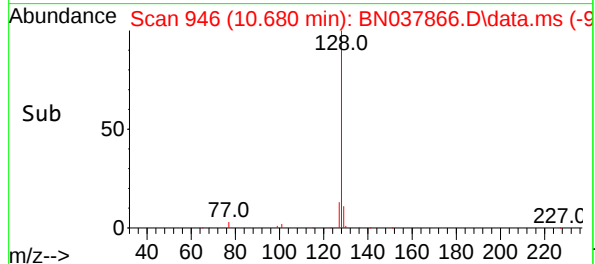
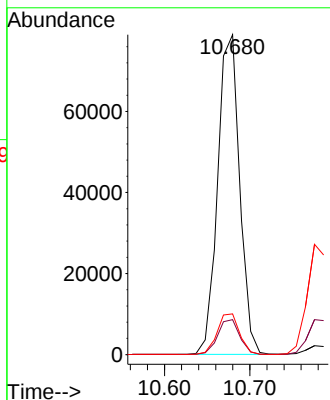
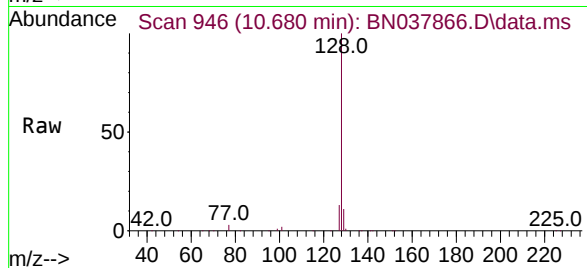




#9
Naphthalene
Concen: 3.301 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

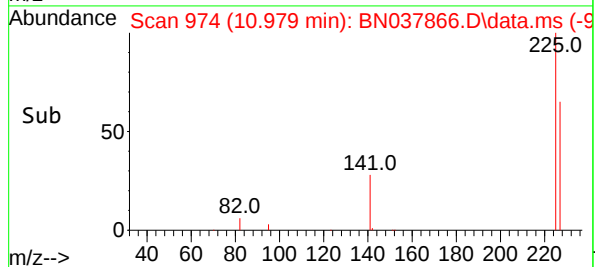
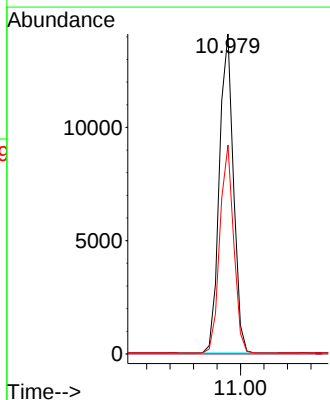
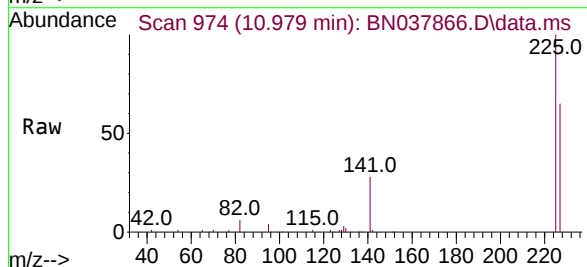
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

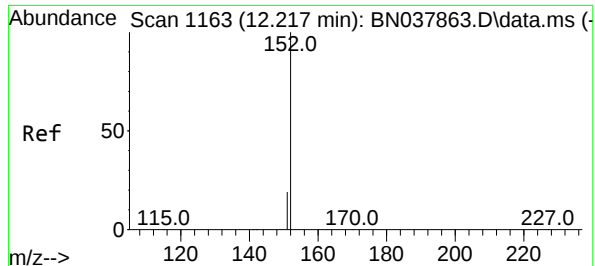
Tgt Ion:128 Resp: 141732
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 12.7 11.0 16.6



#10
Hexachlorobutadiene
Concen: 3.208 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:225 Resp: 23493
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.4 77.2

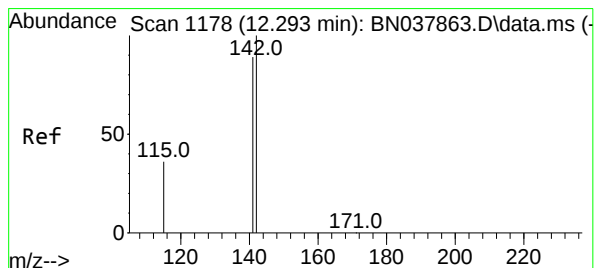
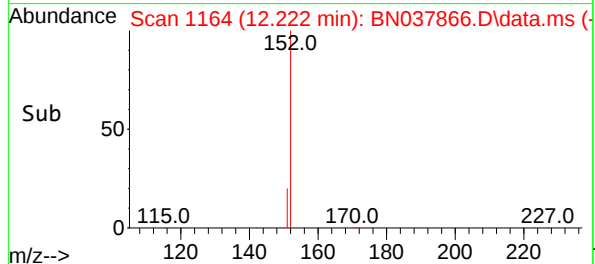
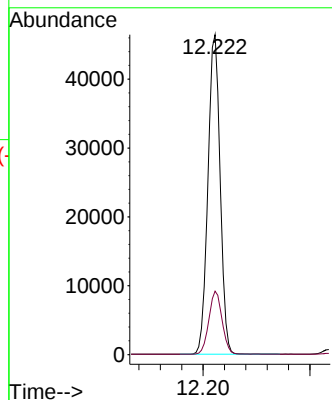
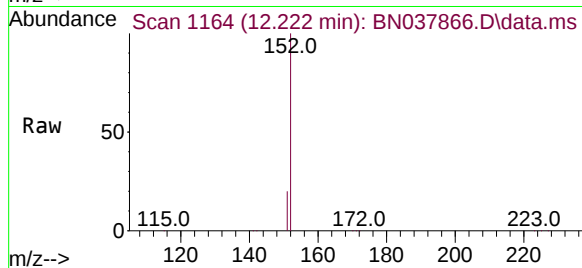




#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

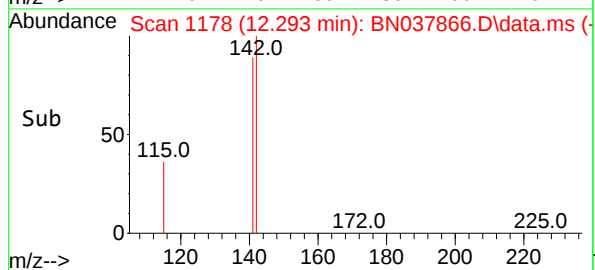
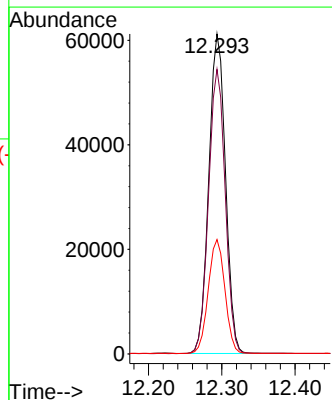
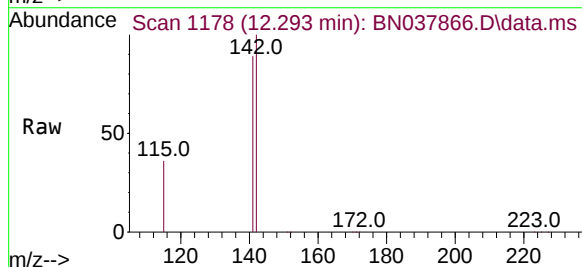
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BNA_N
ClientSampleId :
SSTDICC3.2

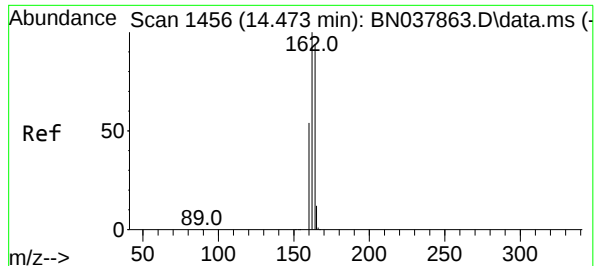
Tgt Ion:152 Resp: 73211
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#12
2-Methylnaphthalene
Concen: 3.447 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:142 Resp: 96667
Ion Ratio Lower Upper
142 100
141 88.9 71.2 106.8
115 35.7 29.7 44.5

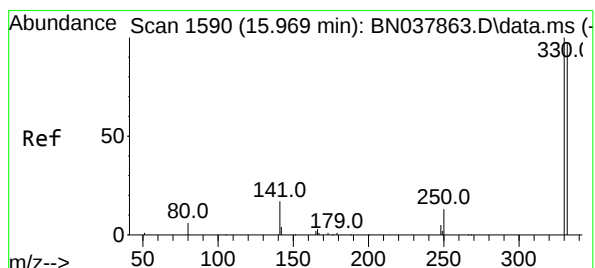
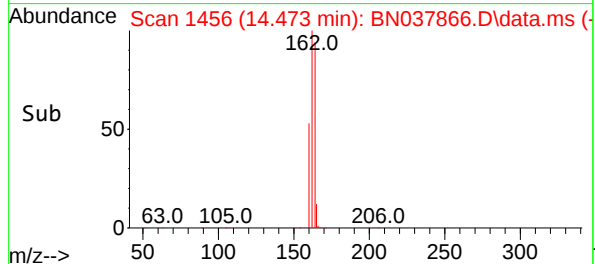
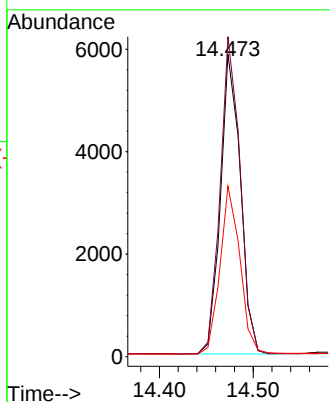
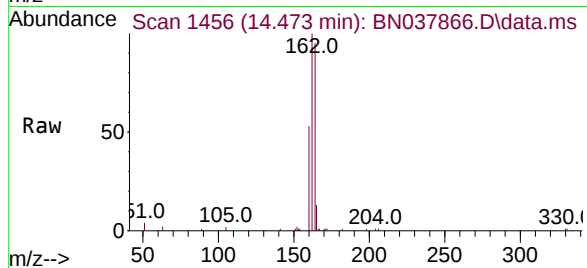




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

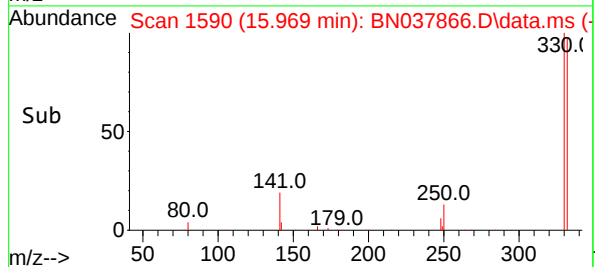
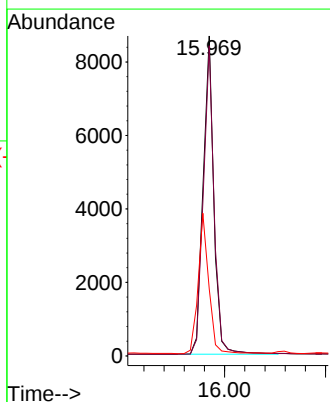
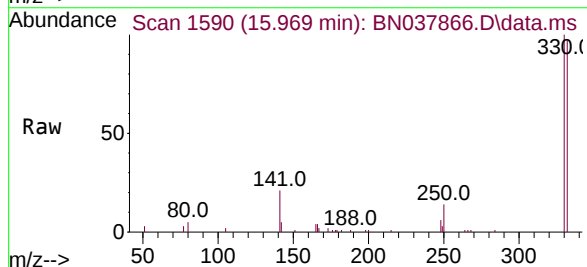
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

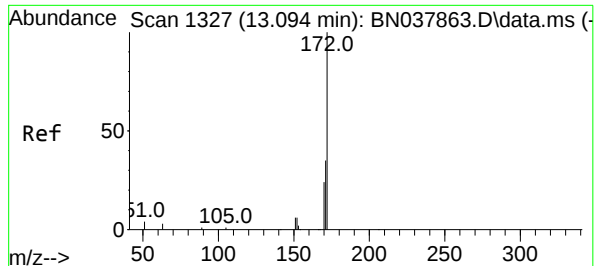
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.8	127.2
160	56.4	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 3.642 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.2	115.8
141	44.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 3.223 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

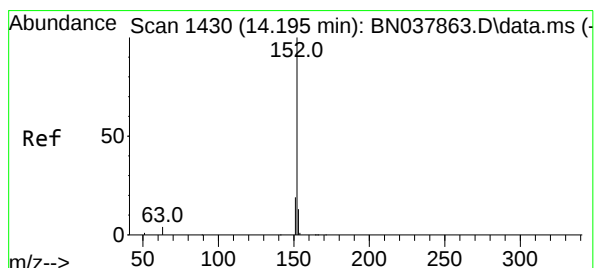
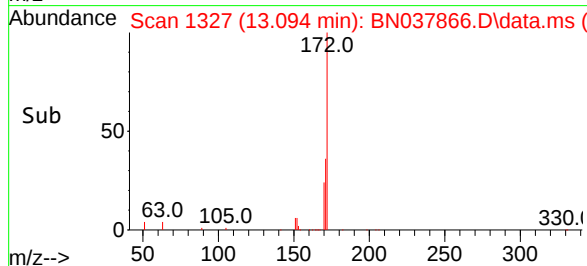
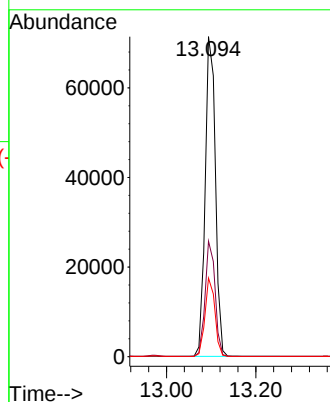
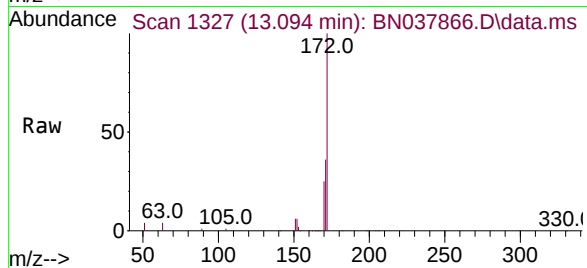
Tgt Ion:172 Resp: 113791

Ion Ratio Lower Upper

172 100

171 36.1 28.6 43.0

170 24.6 19.7 29.5



#16

Acenaphthylene

Concen: 3.437 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

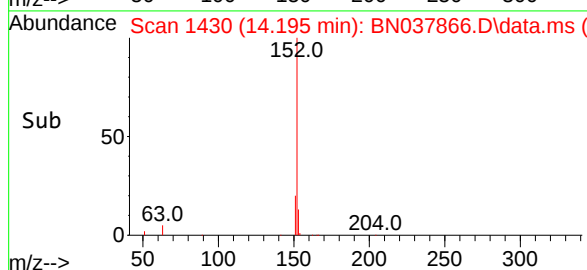
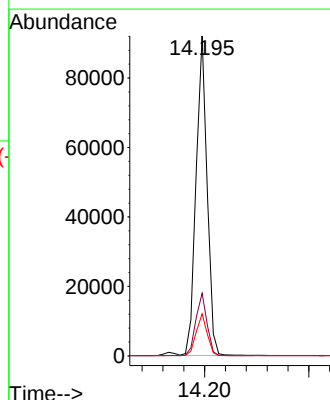
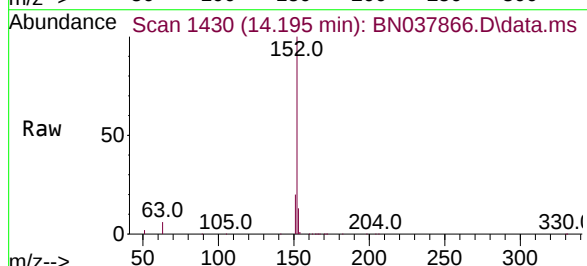
Tgt Ion:152 Resp: 134565

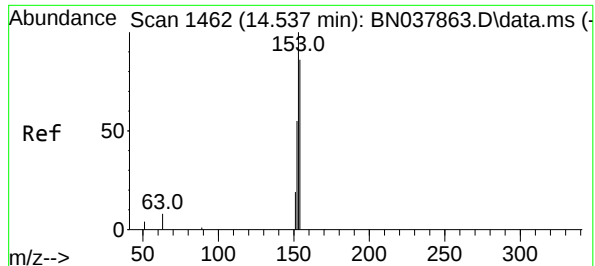
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 13.0 10.5 15.7

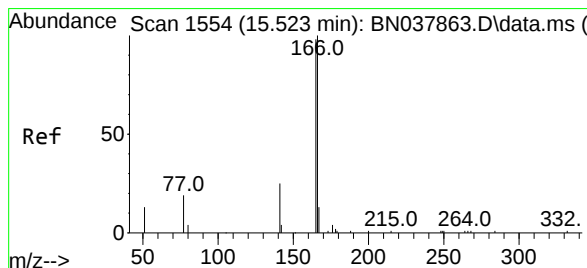
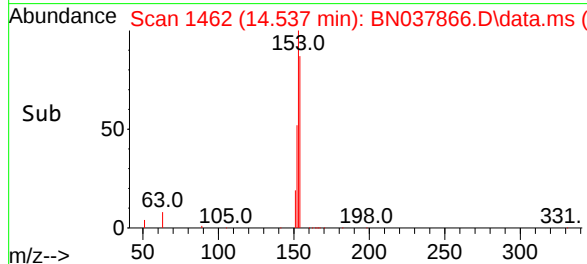
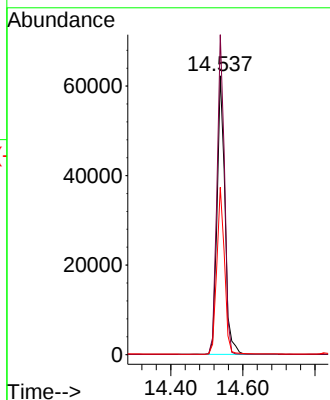
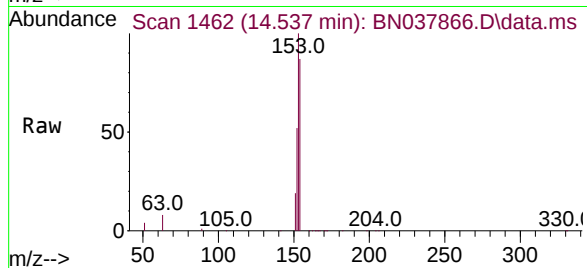




#17
Acenaphthene
Concen: 3.392 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

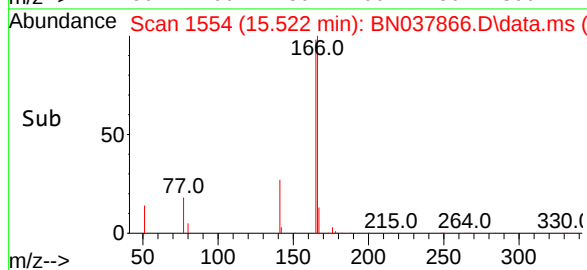
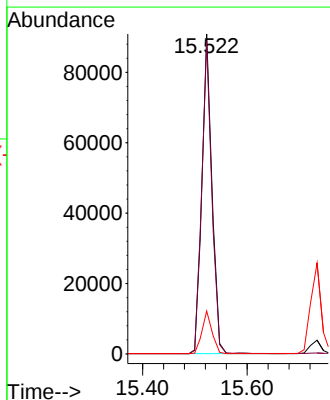
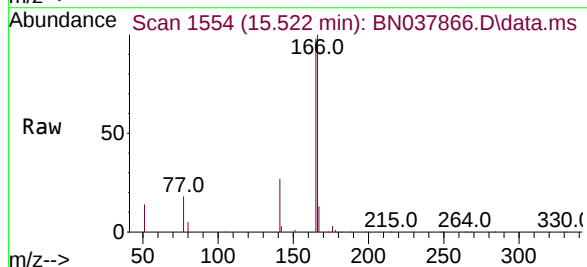
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

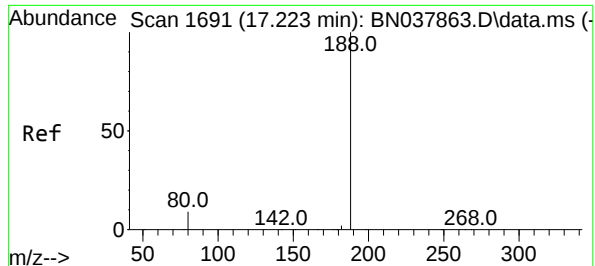
Tgt Ion	154	Resp	94611
Ion Ratio	Lower	Upper	
154	100		
153	109.6	90.5	135.7
152	58.7	51.8	77.8



#18
Fluorene
Concen: 3.511 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion	166	Resp	118468
Ion Ratio	Lower	Upper	
166	100		
165	98.2	79.0	118.4
167	13.1	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

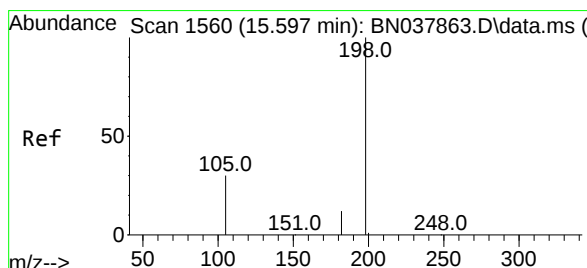
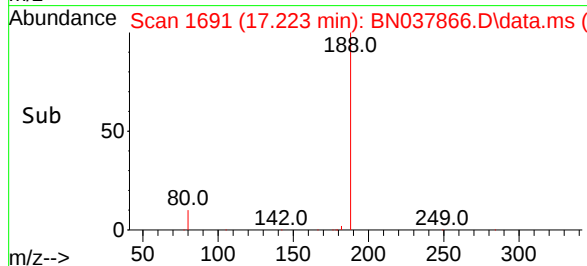
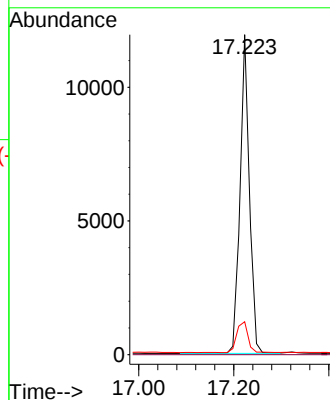
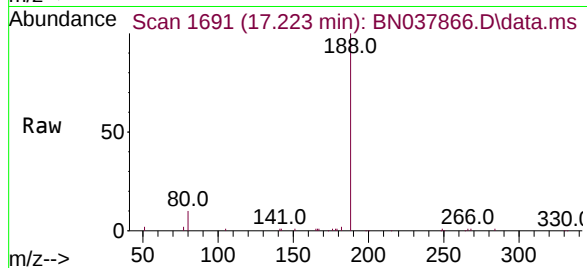
Tgt Ion:188 Resp: 16225

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.211 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

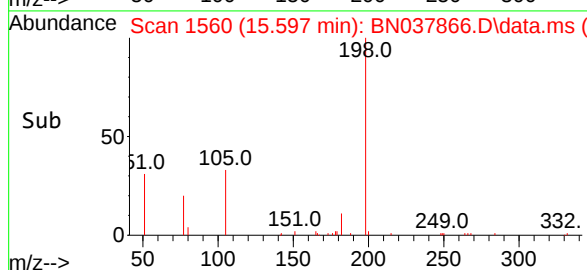
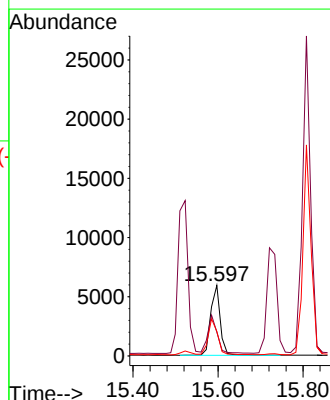
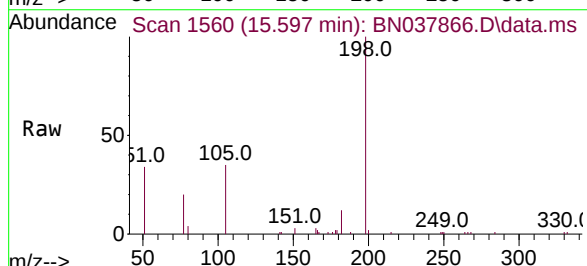
Tgt Ion:198 Resp: 9172

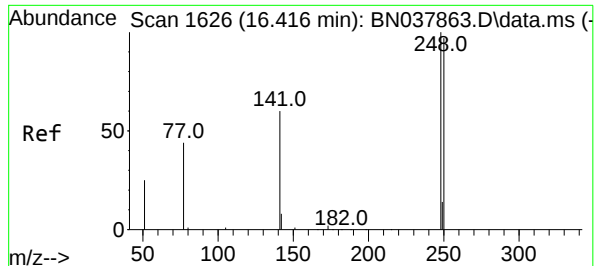
Ion Ratio Lower Upper

198 100

51 33.8 59.1 88.7#

105 34.5 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 3.370 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

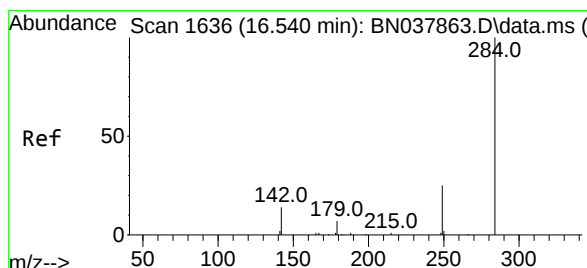
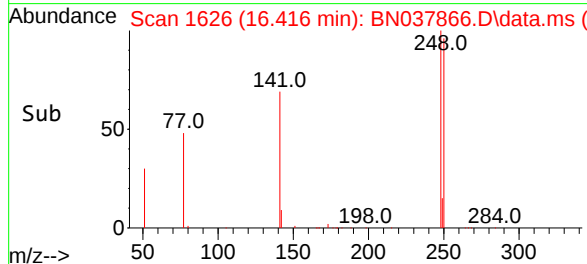
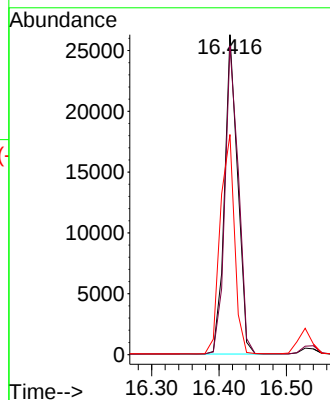
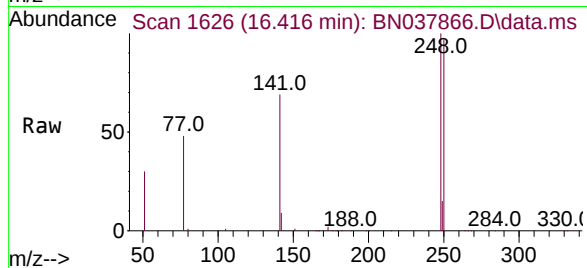
Tgt Ion:248 Resp: 35637

Ion Ratio Lower Upper

248 100

250 96.5 77.6 116.4

141 68.8 48.8 73.2



#22

Hexachlorobenzene

Concen: 3.269 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

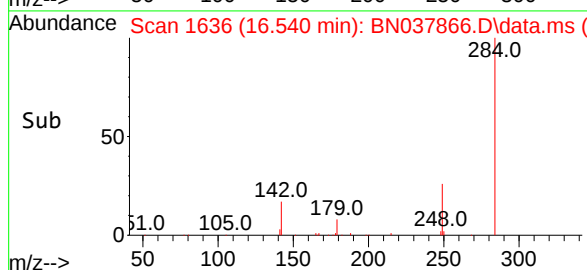
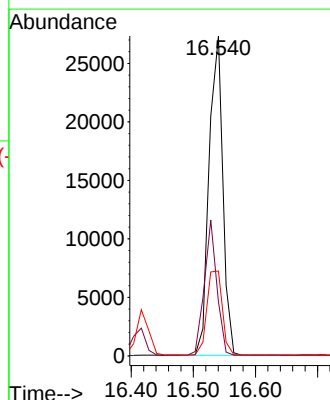
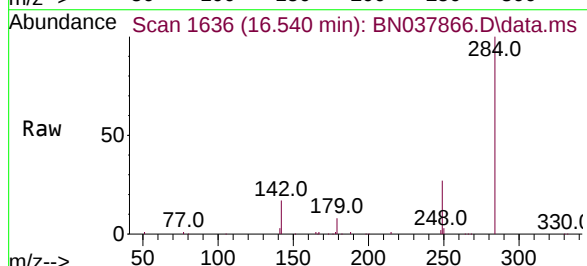
Tgt Ion:284 Resp: 41902

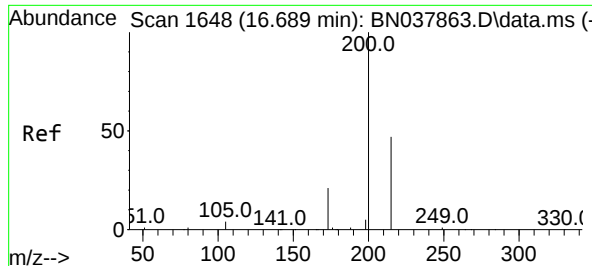
Ion Ratio Lower Upper

284 100

142 38.5 30.9 46.3

249 29.5 23.9 35.9





#23

Atrazine

Concen: 3.616 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

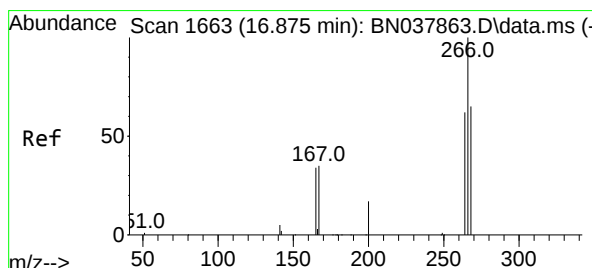
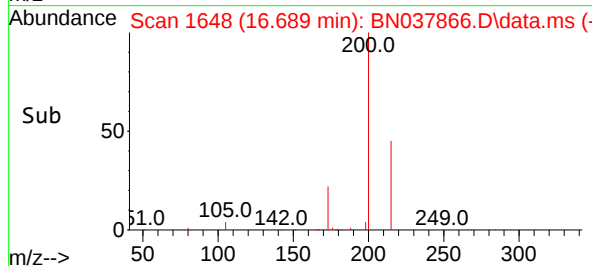
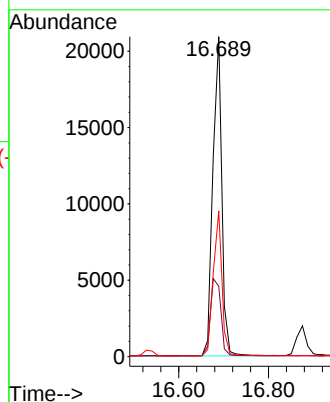
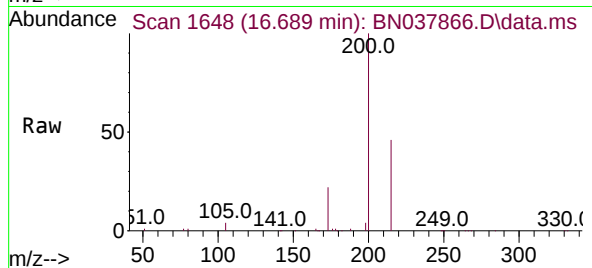
Tgt Ion:200 Resp: 29112

Ion Ratio Lower Upper

200 100

173 22.0 18.3 27.5

215 45.5 38.6 58.0



#24

Pentachlorophenol

Concen: 4.011 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

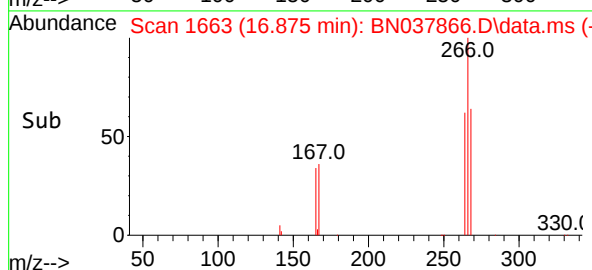
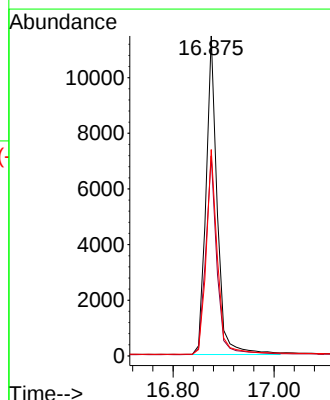
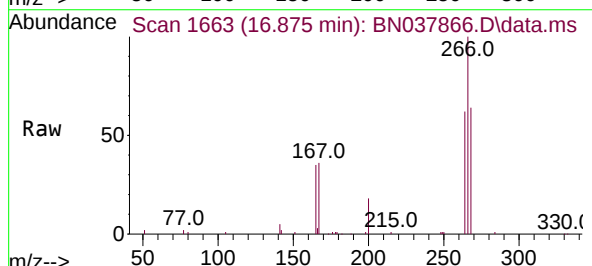
Tgt Ion:266 Resp: 17645

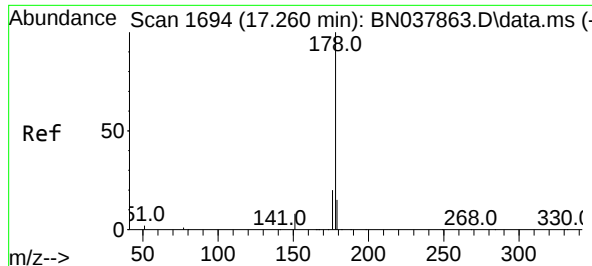
Ion Ratio Lower Upper

266 100

264 62.5 50.9 76.3

268 64.0 54.3 81.5

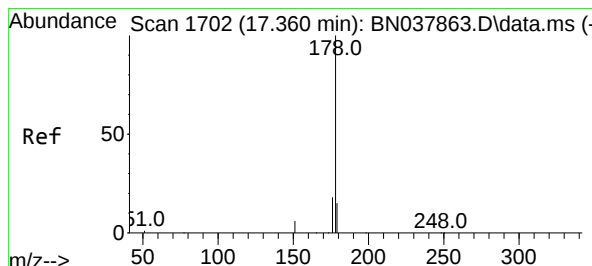
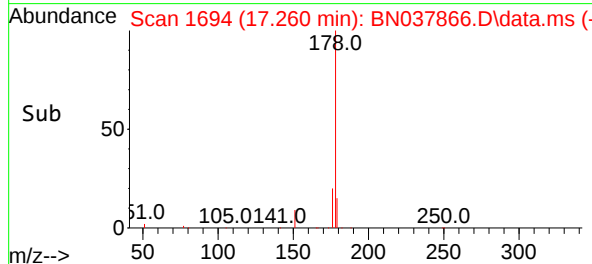
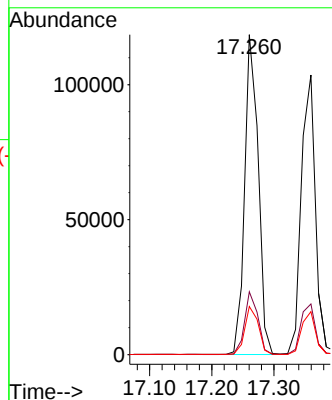
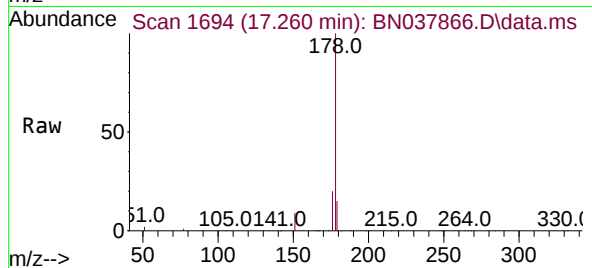




#25
Phenanthrene
Concen: 3.352 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

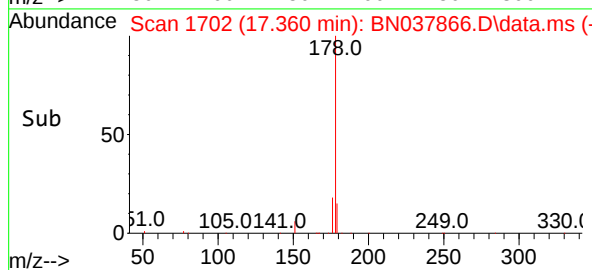
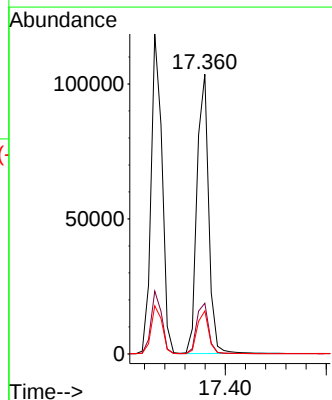
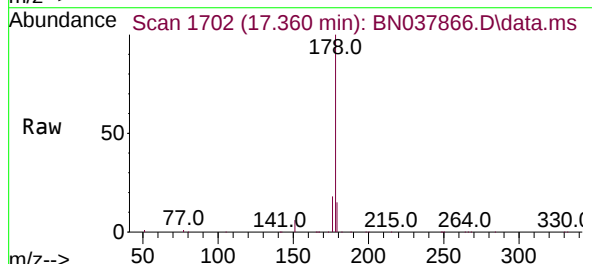
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

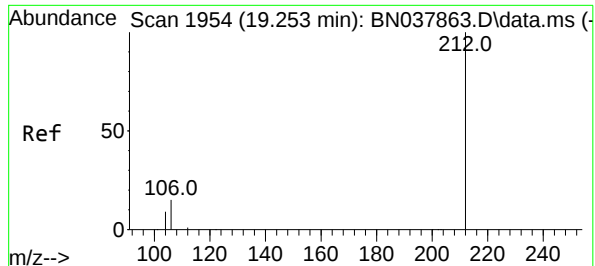
Tgt Ion:178 Resp: 178985
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.1 12.3 18.5



#26
Anthracene
Concen: 3.573 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:178 Resp: 165527
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.451 ng

RT: 19.257 min Scan# 19

Delta R.T. 0.005 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

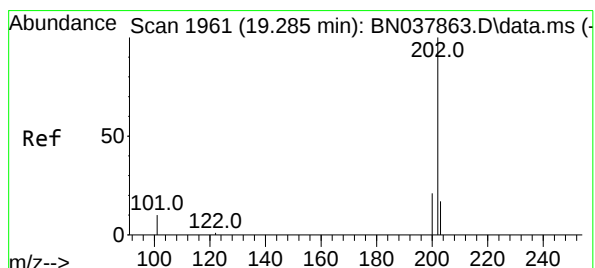
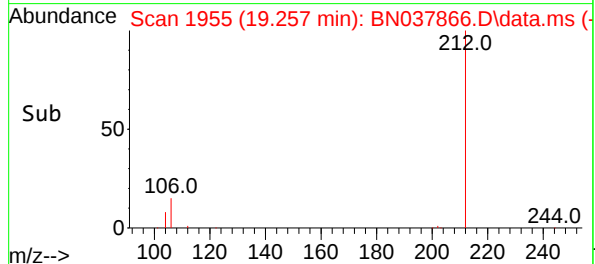
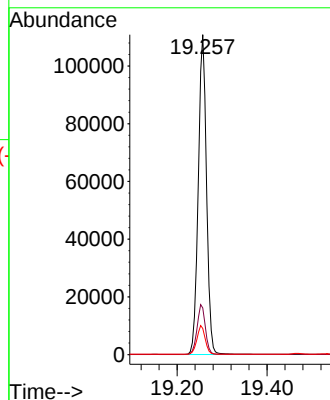
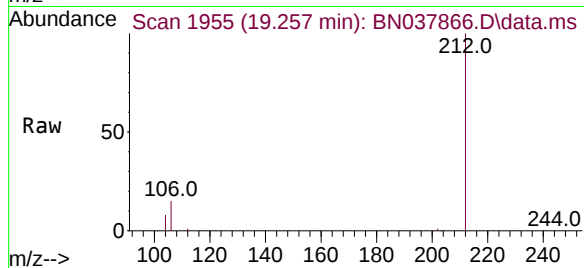
Tgt Ion:212 Resp: 140845

Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.0 7.4 11.0



#28

Fluoranthene

Concen: 3.570 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

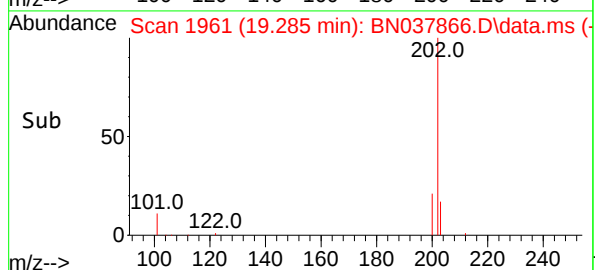
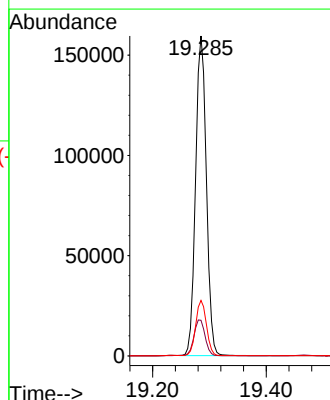
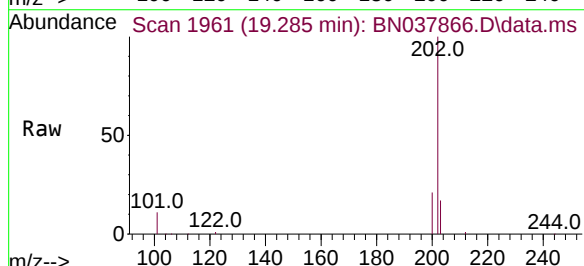
Tgt Ion:202 Resp: 209920

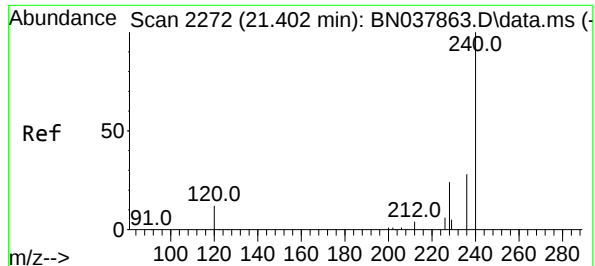
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

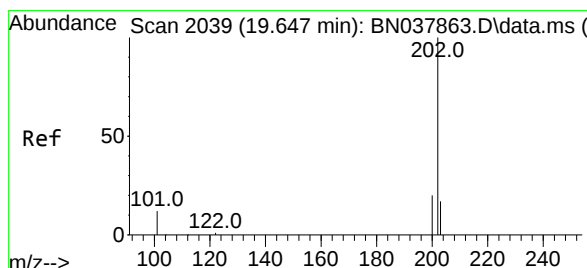
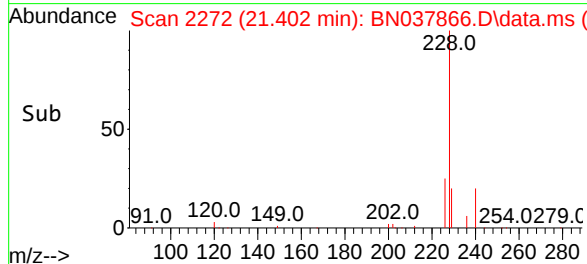
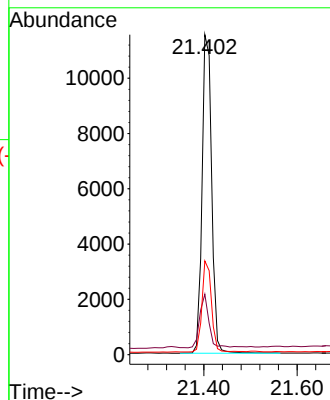
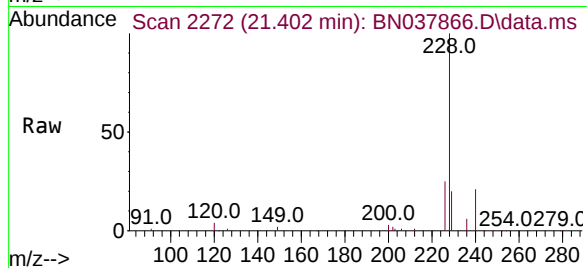
Tgt Ion:240 Resp: 16309

Ion Ratio Lower Upper

240 100

120 18.9 11.4 17.2#

236 29.3 23.0 34.6



#30

Pyrene

Concen: 3.232 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

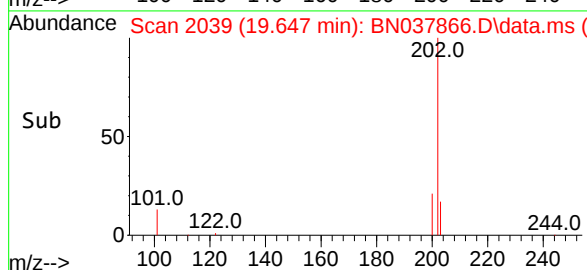
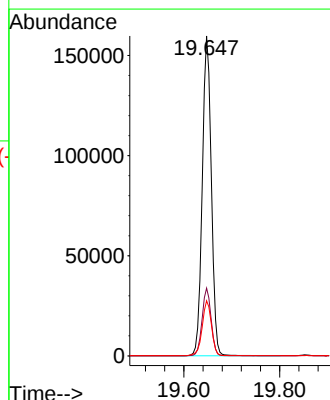
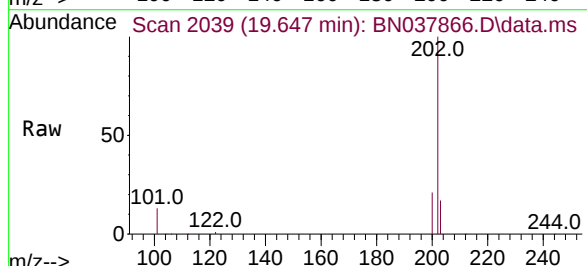
Tgt Ion:202 Resp: 208135

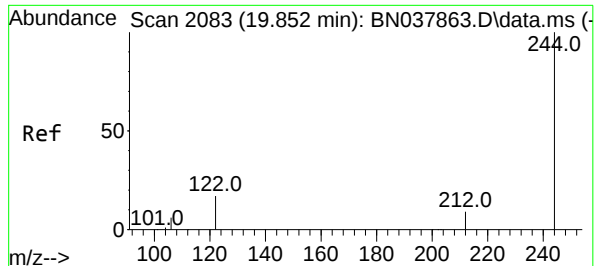
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

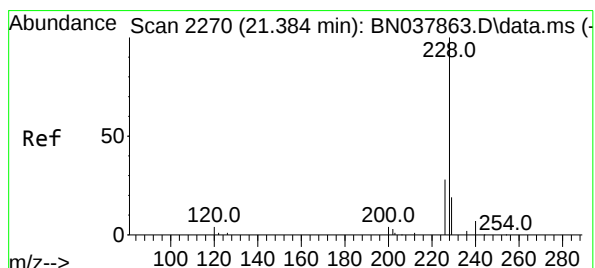
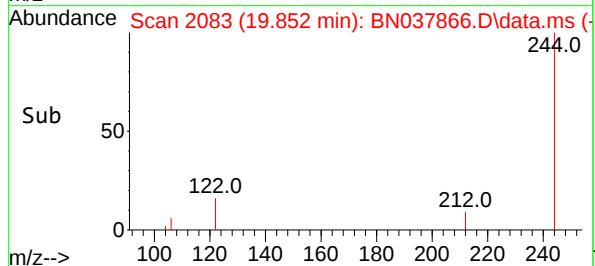
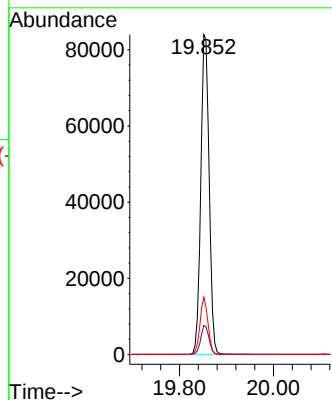
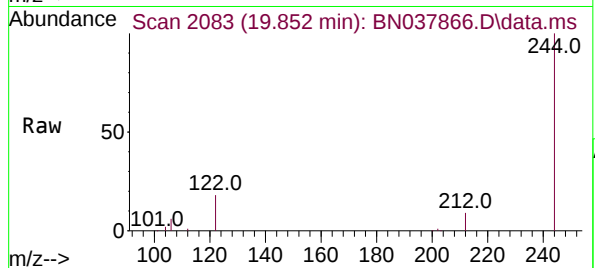




#31
Terphenyl-d14
Concen: 3.250 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

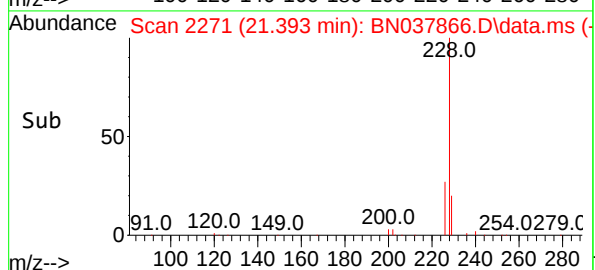
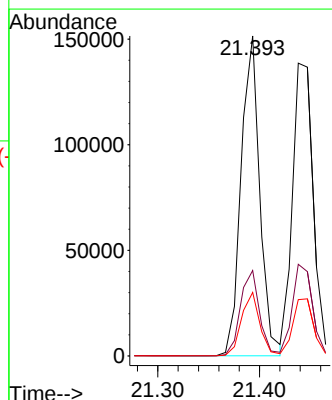
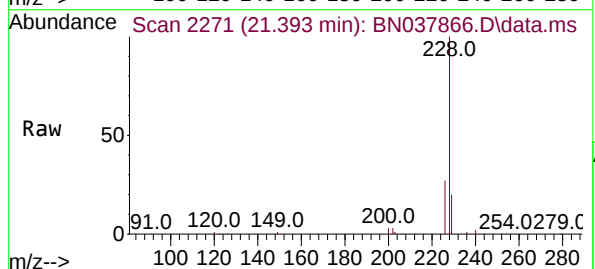
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

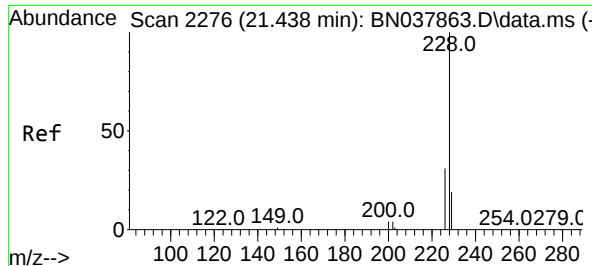
Tgt Ion:244 Resp: 105582
Ion Ratio Lower Upper
244 100
212 9.1 7.6 11.4
122 17.9 13.9 20.9



#32
Benzo(a)anthracene
Concen: 3.394 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:228 Resp: 193464
Ion Ratio Lower Upper
228 100
226 26.7 22.6 33.8
229 19.8 15.6 23.4





#33

Chrysene

Concen: 3.201 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

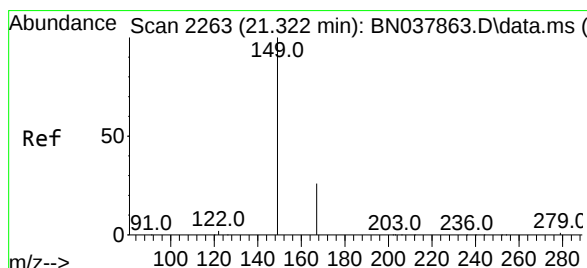
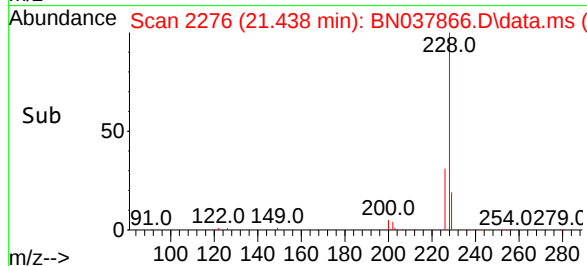
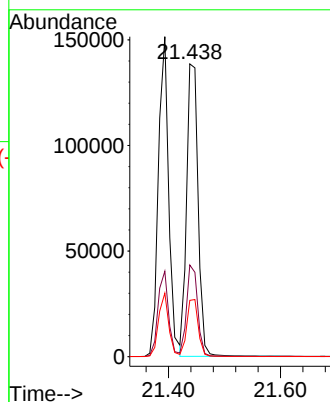
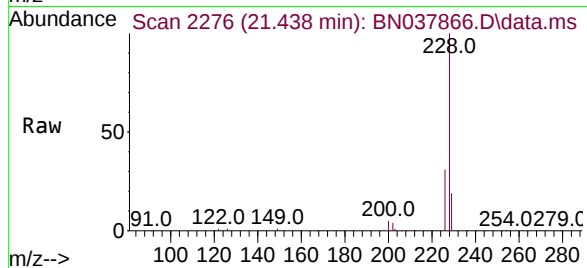
Tgt Ion:228 Resp: 197283

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.291 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

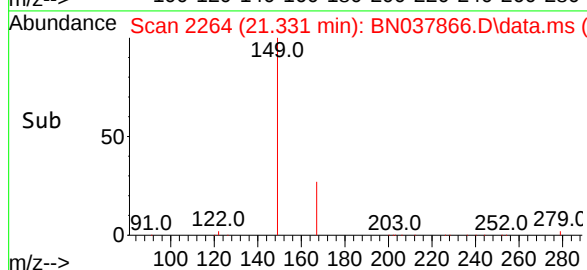
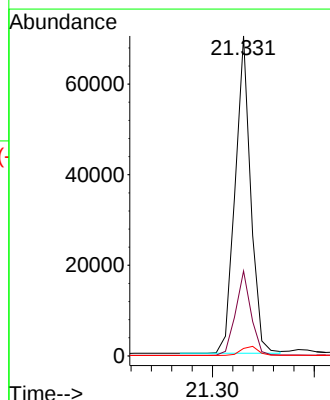
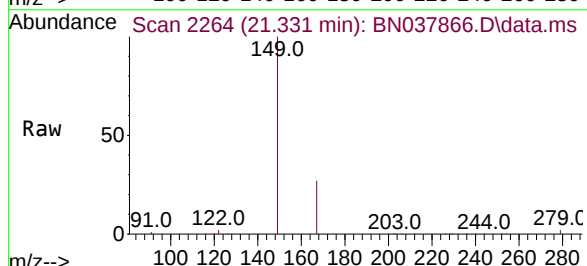
Tgt Ion:149 Resp: 74195

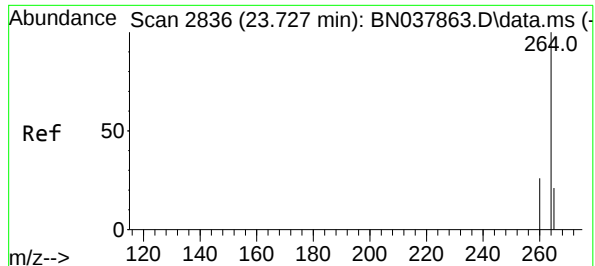
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2836

Delta R.T. 0.009 min

Lab File: BN037866.D

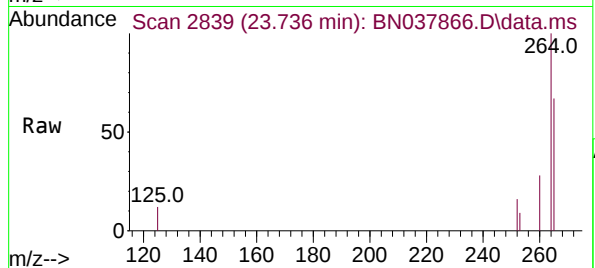
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



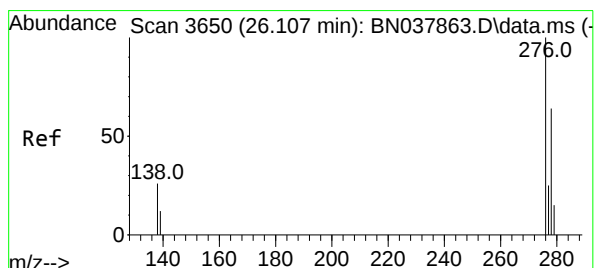
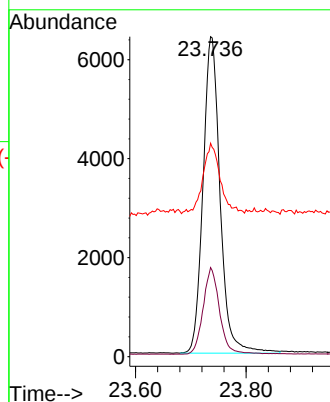
Tgt Ion:264 Resp: 13684

Ion Ratio Lower Upper

264 100

260 27.8 21.5 32.3

265 66.7 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.494 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.012 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

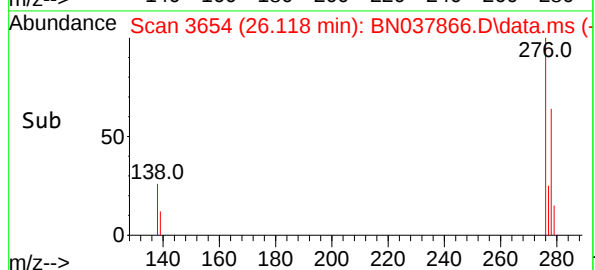
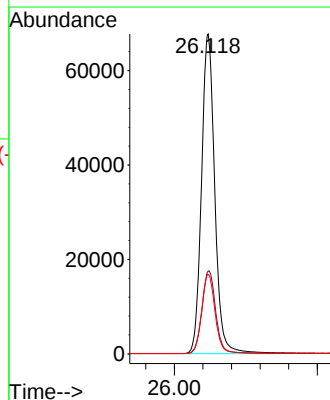
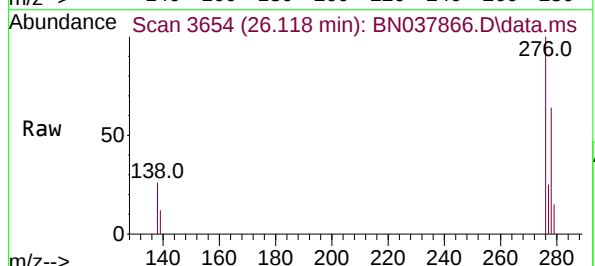
Tgt Ion:276 Resp: 218487

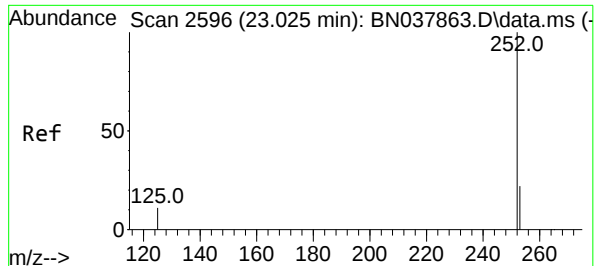
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 3.428 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

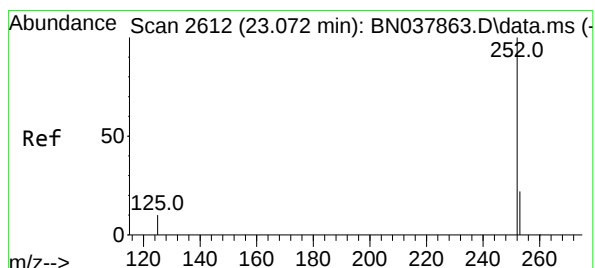
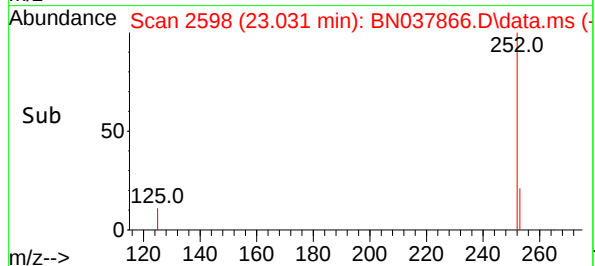
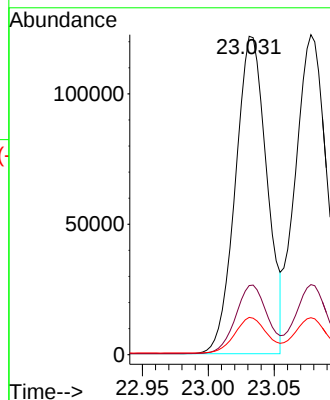
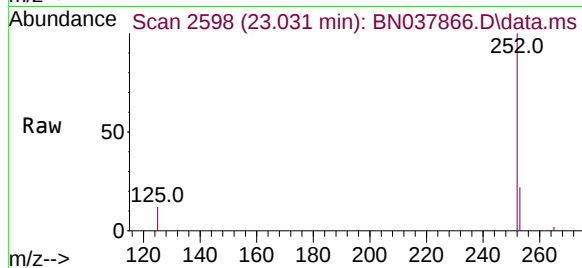
Tgt Ion:252 Resp: 202282

Ion Ratio Lower Upper

252 100

253 21.7 19.4 29.0

125 11.7 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 3.534 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

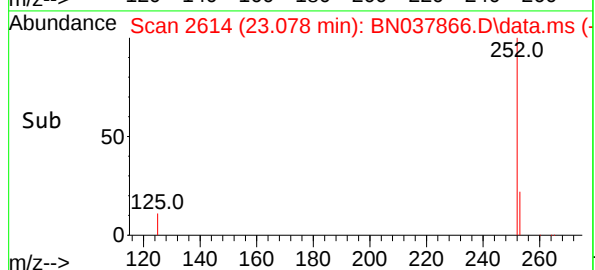
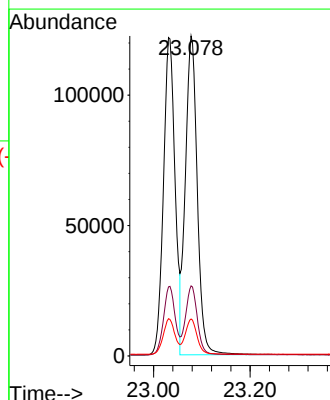
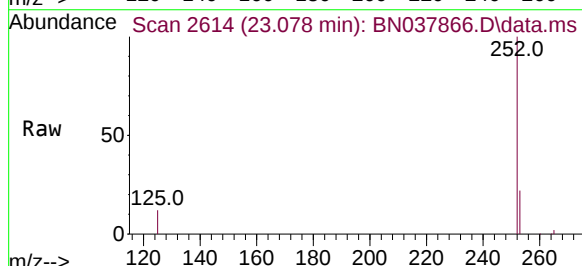
Tgt Ion:252 Resp: 209819

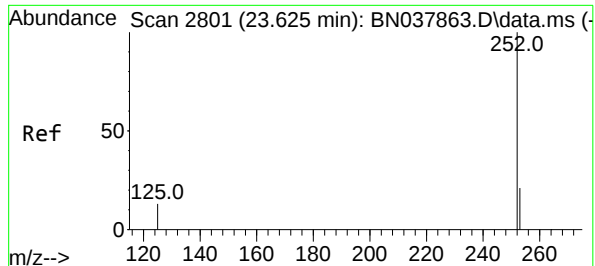
Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 11.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.499 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037866.D

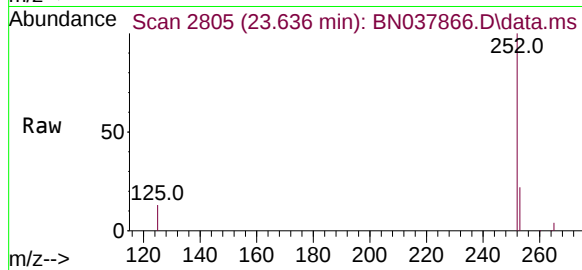
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



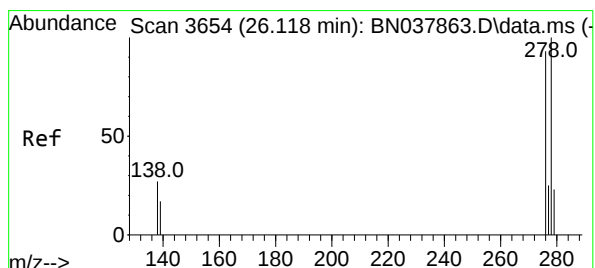
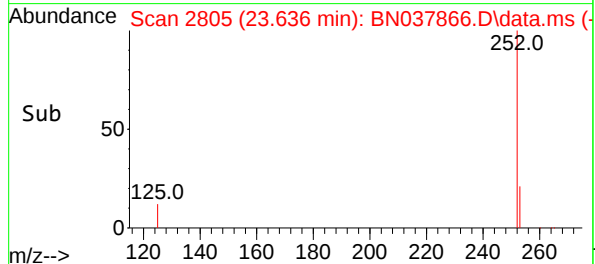
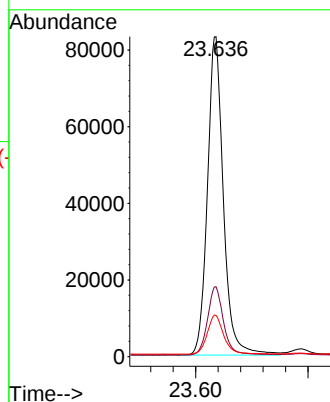
Tgt Ion:252 Resp: 163321

Ion Ratio Lower Upper

252 100

253 21.8 20.6 30.8

125 12.9 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.558 ng

RT: 26.133 min Scan# 3659

Delta R.T. 0.015 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

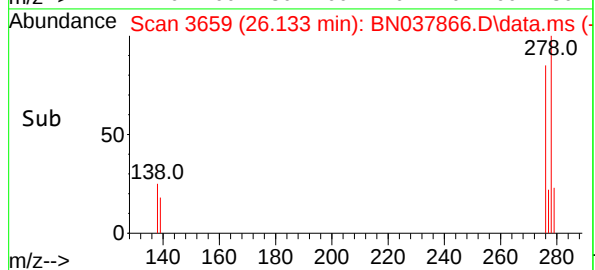
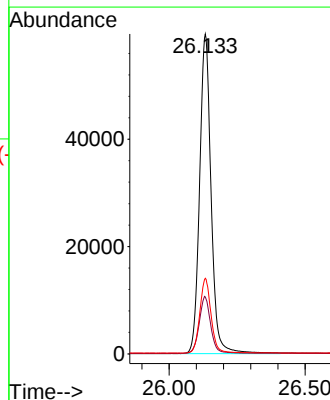
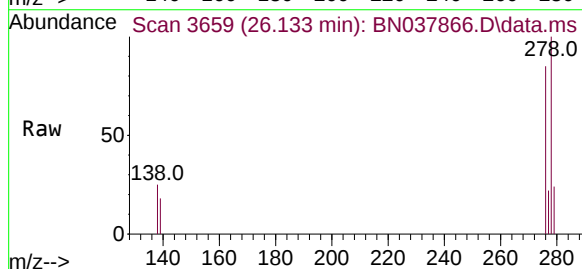
Tgt Ion:278 Resp: 173724

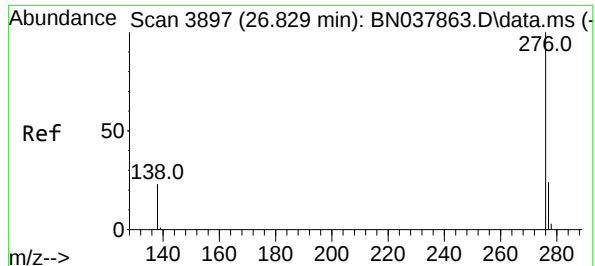
Ion Ratio Lower Upper

278 100

139 17.8 15.4 23.2

279 23.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 3.443 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037866.D

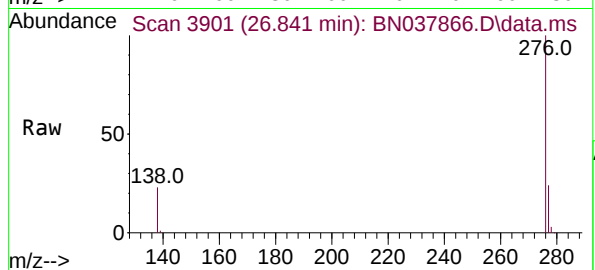
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



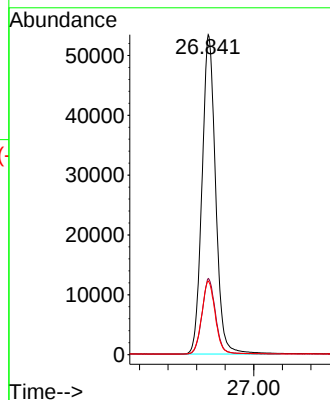
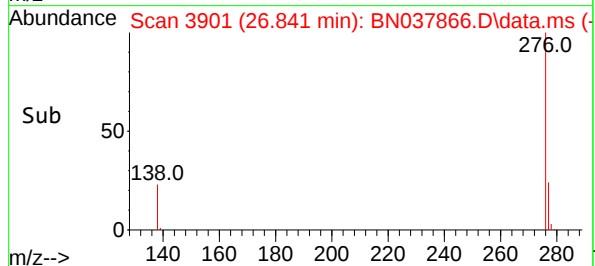
Tgt Ion:276 Resp: 176617

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037867.D
 Acq On : 23 Sep 2025 15:51
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

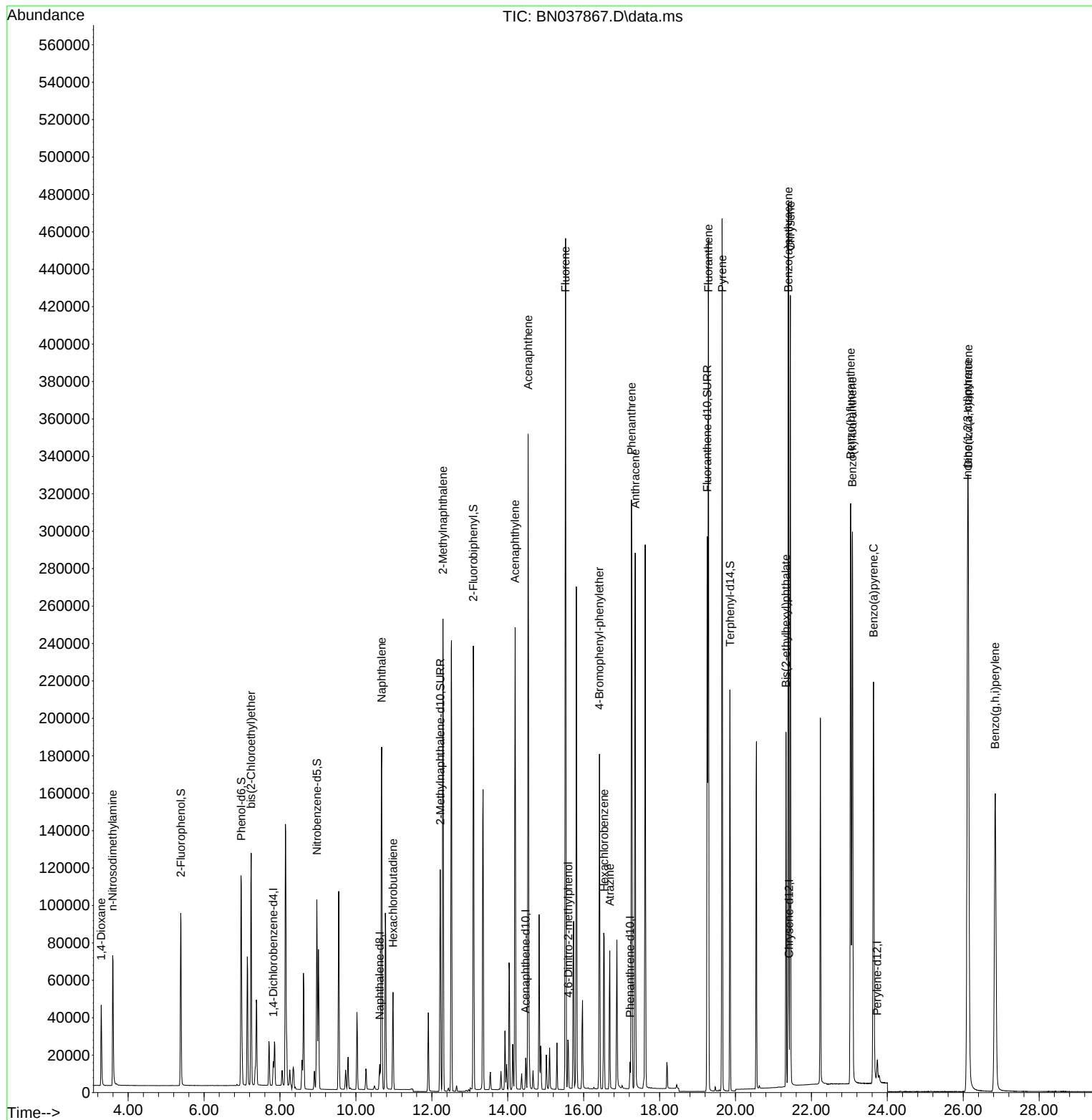
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng	0.00
29) Chrysene-d12	21.411	240	18531	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	15649	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	75850	5.467	ng	0.00
5) Phenol-d6	6.980	99	102802	5.639	ng	0.00
8) Nitrobenzene-d5	8.971	82	73146	5.543	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	154332	6.422	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.094	172	210748	5.379	ng	0.00
27) Fluoranthene-d10	19.257	212	307332	6.807	ng	0.00
31) Terphenyl-d14	19.856	244	206917	5.606	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	28576	4.630	ng	98
3) n-Nitrosodimethylamine	3.593	42	41574	5.063	ng	# 92
6) bis(2-Chloroethyl)ether	7.240	93	86881	5.134	ng	99
9) Naphthalene	10.680	128	250883	5.264	ng	98
10) Hexachlorobutadiene	10.979	225	40670	5.003	ng	# 100
12) 2-Methylnaphthalene	12.293	142	173335	5.567	ng	99
16) Acenaphthylene	14.195	152	250496	5.765	ng	100
17) Acenaphthene	14.537	154	171955	5.554	ng	94
18) Fluorene	15.522	166	209070	5.583	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	18771	4.997	ng	# 59
21) 4-Bromophenyl-phenylether	16.416	248	65230	5.577	ng	92
22) Hexachlorobenzene	16.540	284	74475	5.252	ng	99
23) Atrazine	16.689	200	55972	6.284	ng	96
25) Phenanthrene	17.260	178	325691	5.514	ng	99
26) Anthracene	17.359	178	305295	5.958	ng	100
28) Fluoranthene	19.285	202	384292	5.908	ng	99
30) Pyrene	19.647	202	388849	5.315	ng	100
32) Benzo(a)anthracene	21.393	228	362927	5.604	ng	98
33) Chrysene	21.447	228	363421	5.189	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	156492	6.109	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	422337	5.906	ng	99
37) Benzo(b)fluoranthene	23.034	252	387512	5.742	ng	# 93
38) Benzo(k)fluoranthene	23.081	252	376732	5.548	ng	# 92
39) Benzo(a)pyrene	23.636	252	314913	5.900	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	333427	5.971	ng	96
41) Benzo(g,h,i)perylene	26.840	276	346868	5.913	ng	96

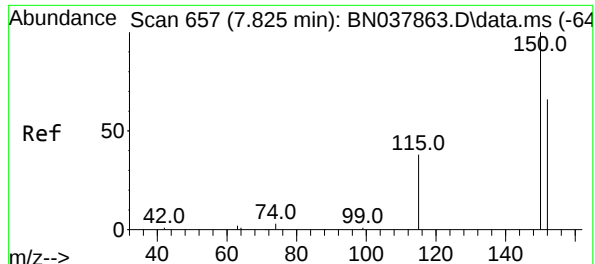
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037867.D
Acq On : 23 Sep 2025 15:51
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

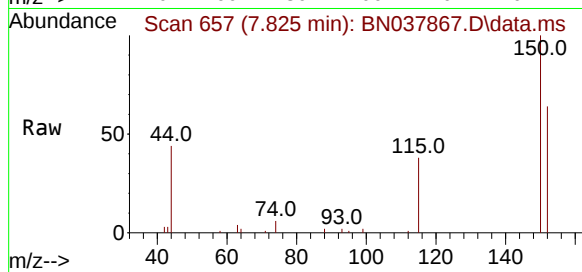
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



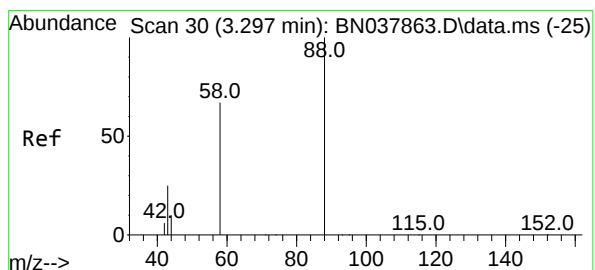
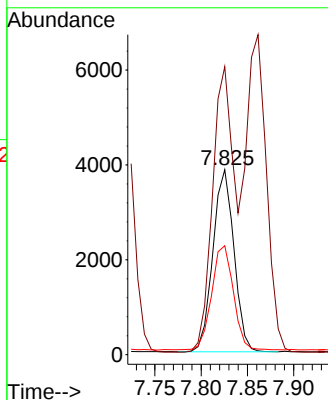
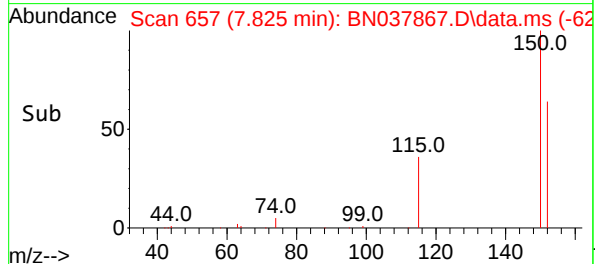


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

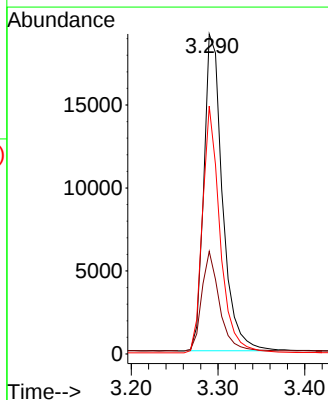
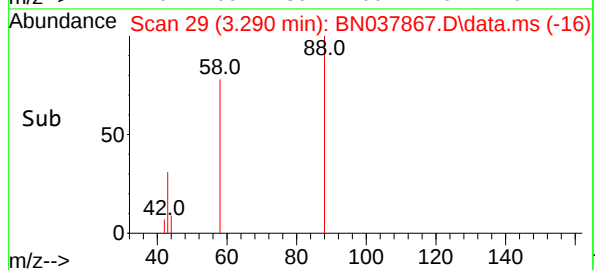
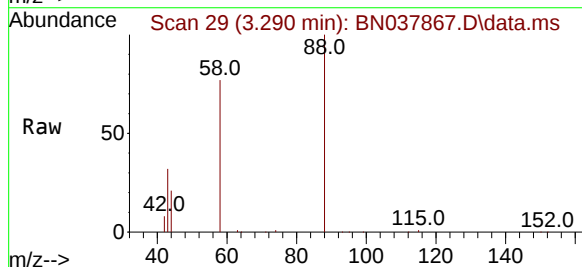


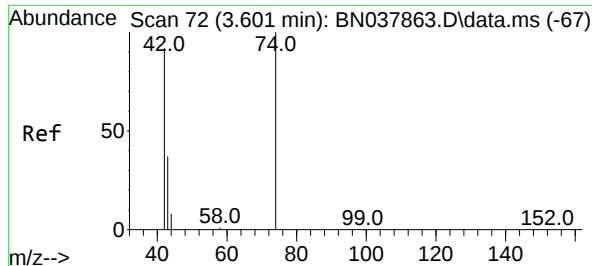
Tgt Ion:152 Resp: 6080
Ion Ratio Lower Upper
152 100
150 155.7 121.0 181.4
115 58.9 47.4 71.0



#2
1,4-Dioxane
Concen: 4.630 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 88 Resp: 28576
Ion Ratio Lower Upper
88 100
43 29.8 26.6 39.8
58 73.3 58.9 88.3

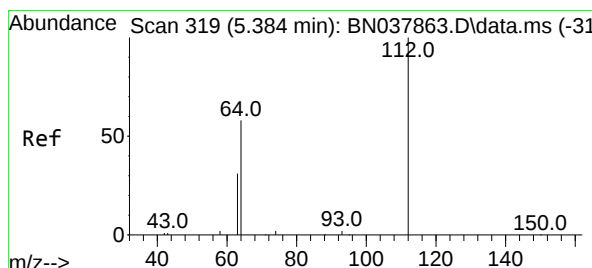
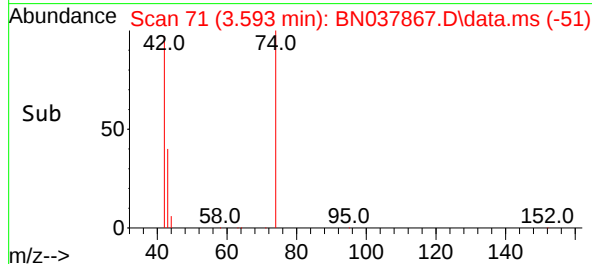
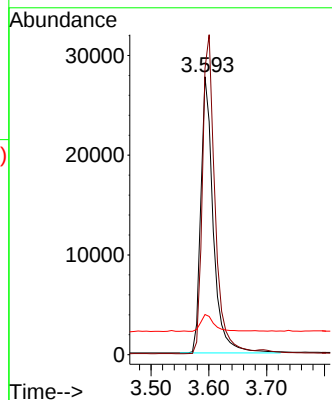
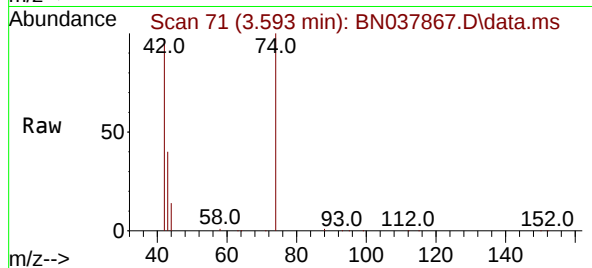




#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

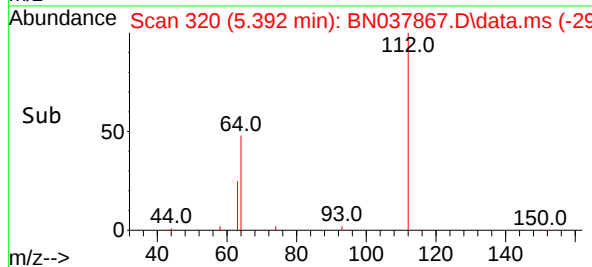
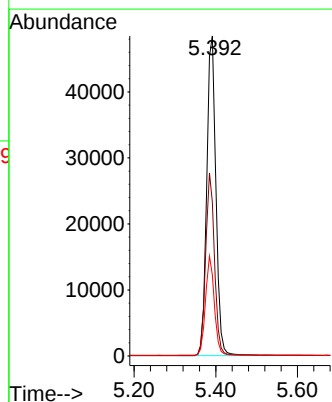
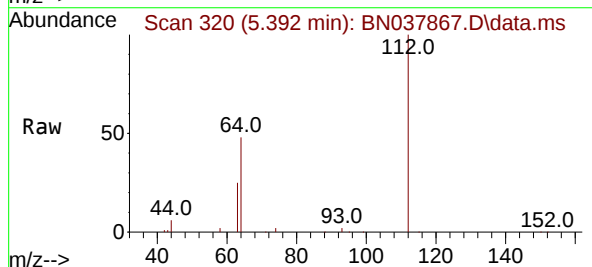
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

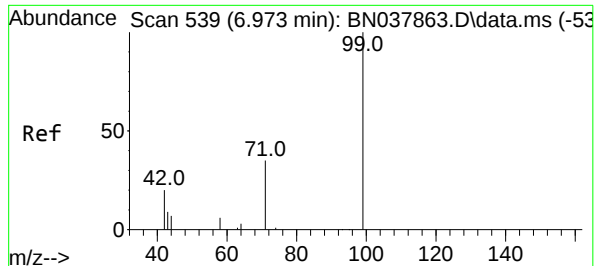
Tgt Ion: 42 Resp: 41574
Ion Ratio Lower Upper
42 100
74 117.0 93.4 140.0
44 6.5 22.2 33.4#



#4
2-Fluorophenol
Concen: 5.467 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 112 Resp: 75850
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 29.7 24.9 37.3





#5

Phenol-d6

Concen: 5.639 ng

RT: 6.980 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

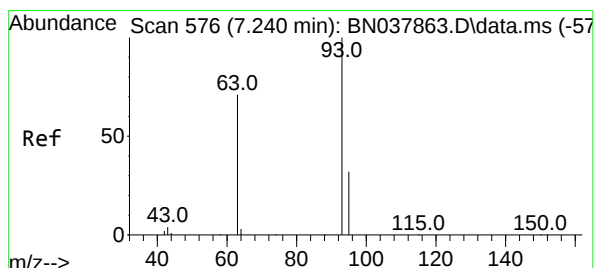
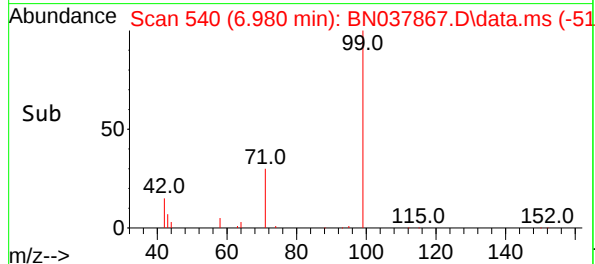
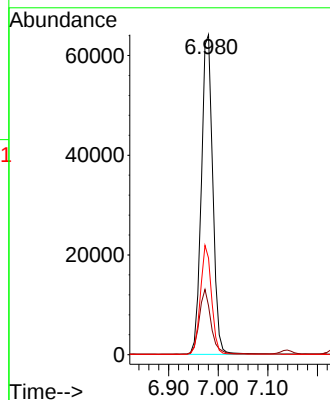
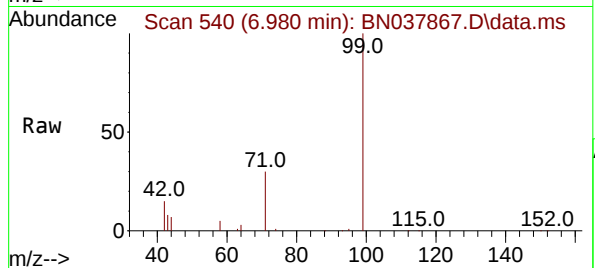
Tgt Ion: 99 Resp: 102802

Ion Ratio Lower Upper

99 100

42 20.6 17.2 25.8

71 33.3 27.3 40.9



#6

bis(2-Chloroethyl)ether

Concen: 5.134 ng

RT: 7.240 min Scan# 576

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

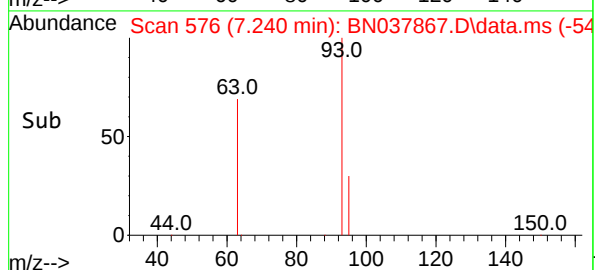
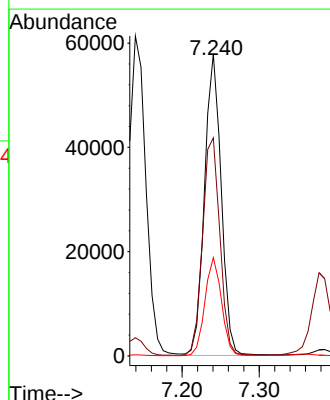
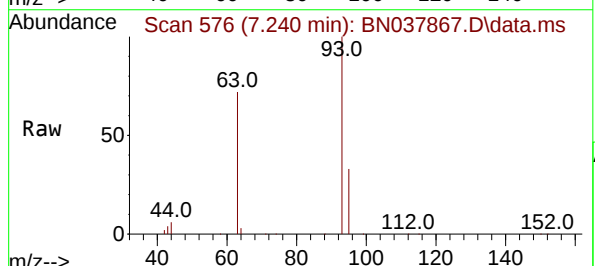
Tgt Ion: 93 Resp: 86881

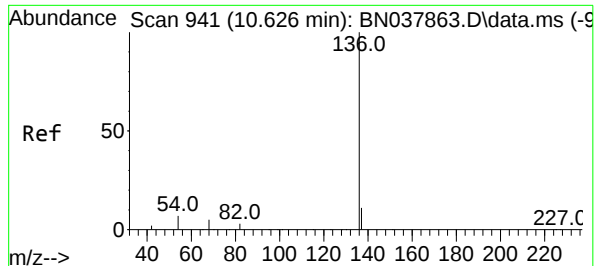
Ion Ratio Lower Upper

93 100

63 74.6 60.1 90.1

95 32.2 25.4 38.2

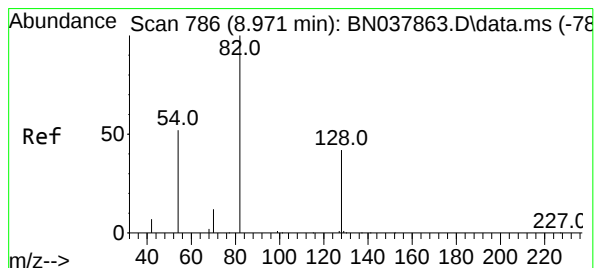
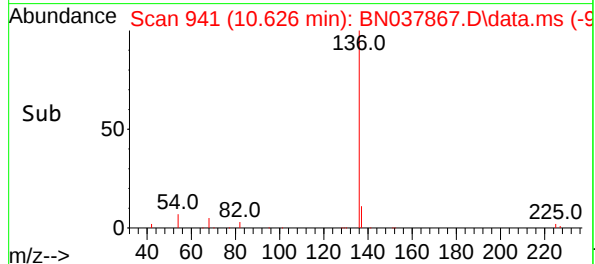
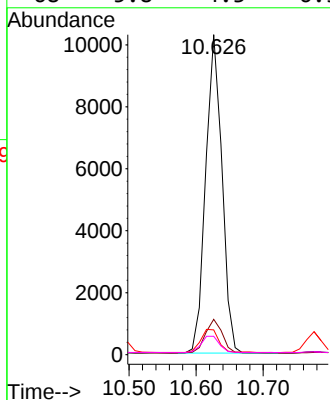
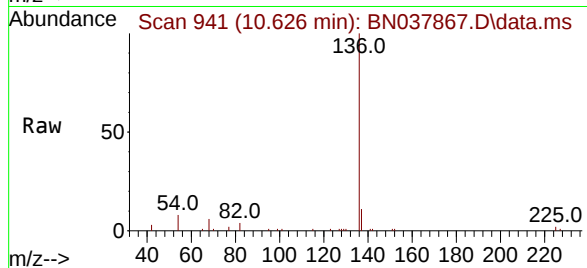




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

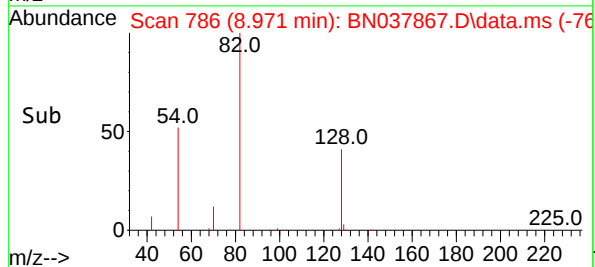
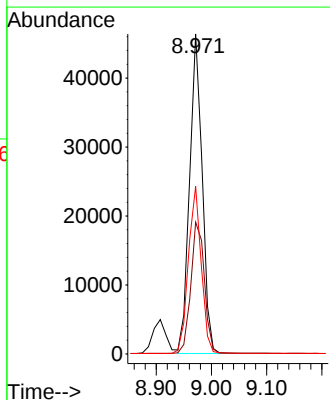
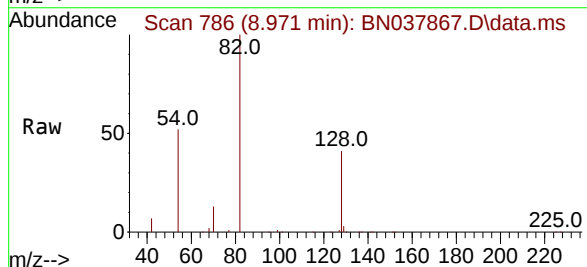
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

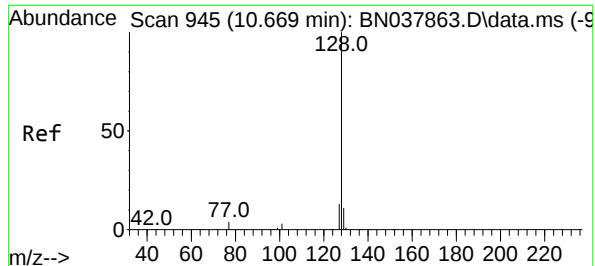
Tgt Ion:	136	Resp:	17301
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 5.543 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:	82	Resp:	73146
Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.8	52.2
54	52.4	42.2	63.2

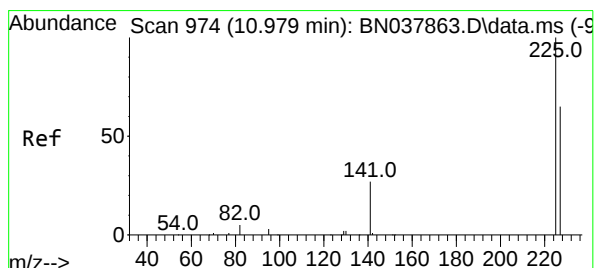
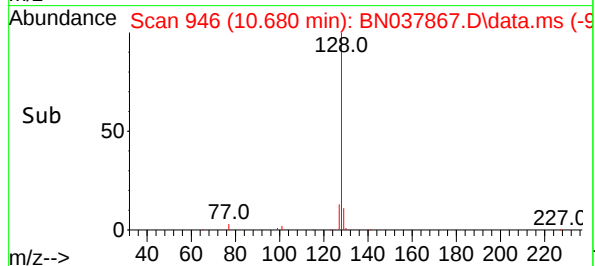
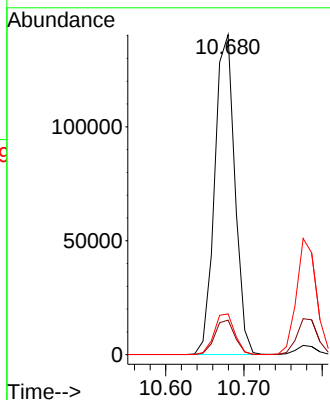
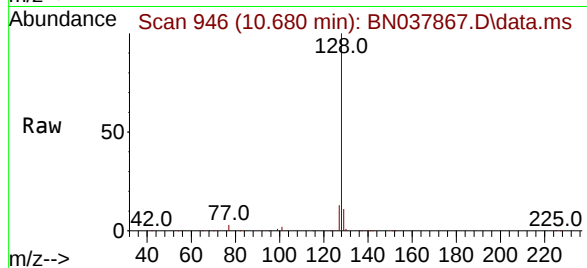




#9
Naphthalene
Concen: 5.264 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

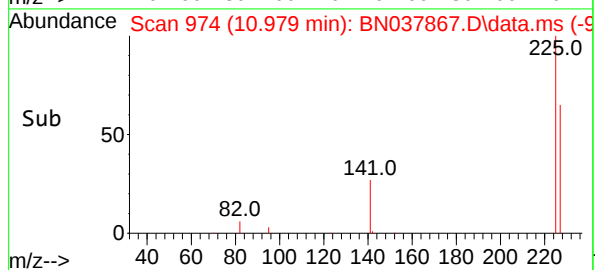
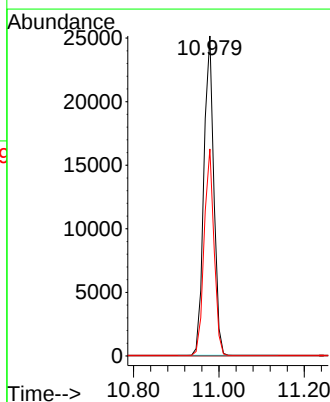
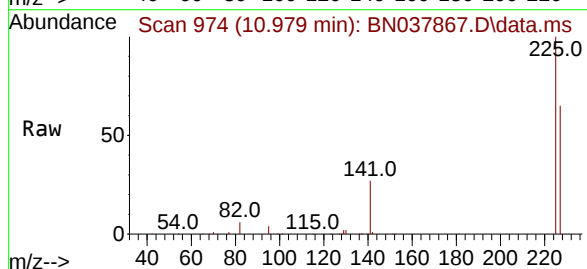
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

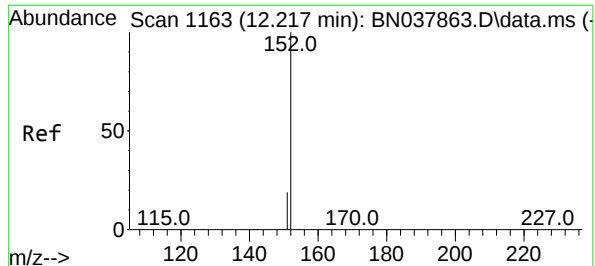
Tgt Ion:128 Resp: 250883
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 12.8 11.0 16.6



#10
Hexachlorobutadiene
Concen: 5.003 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:225 Resp: 40670
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.4 77.2

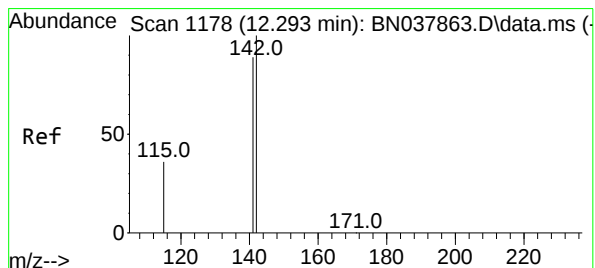
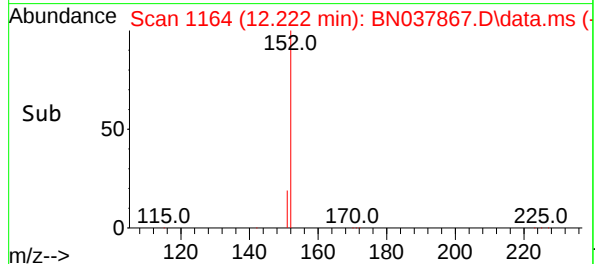
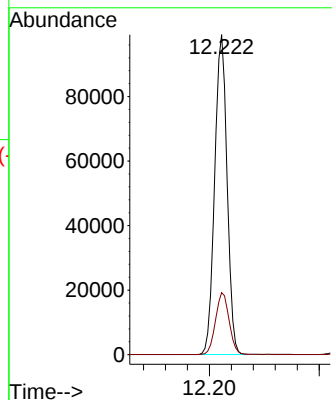
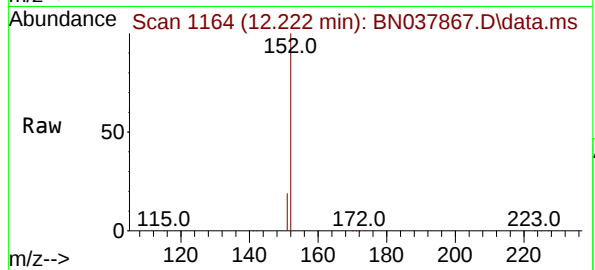




#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

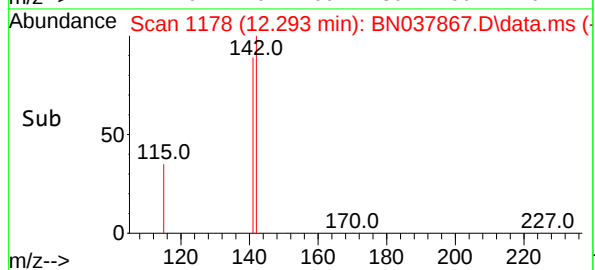
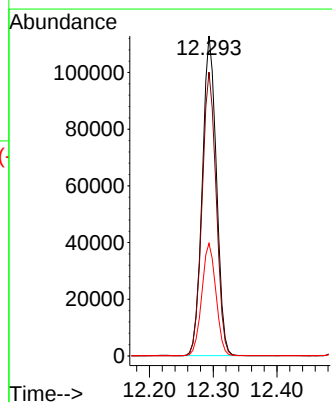
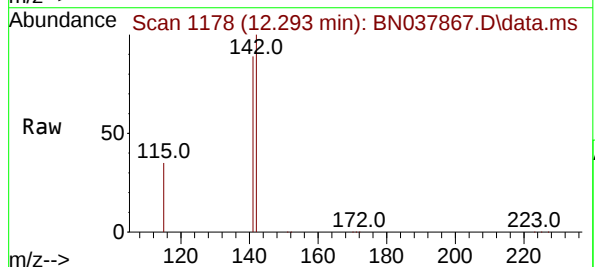
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

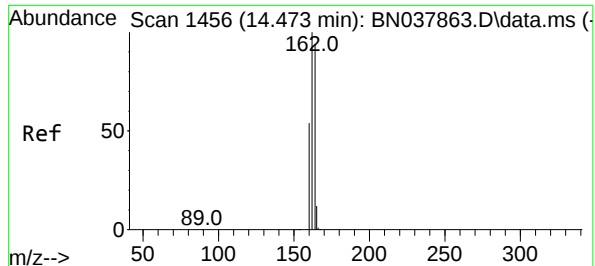
Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.567 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:142 Resp: 173335
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8
115 35.2 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037867.D

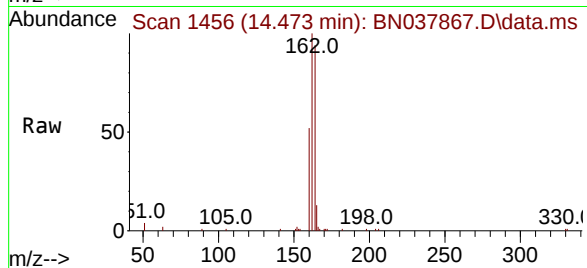
Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



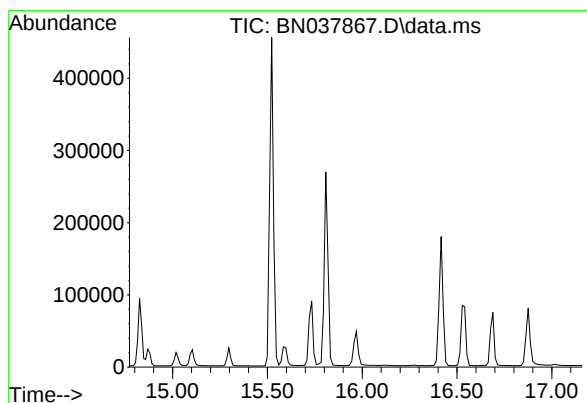
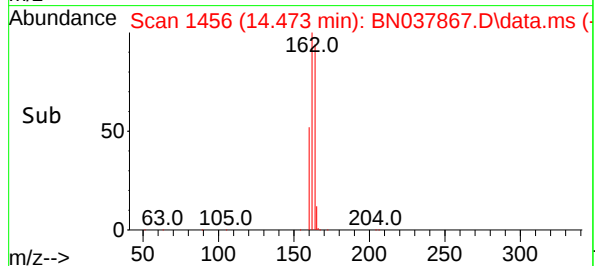
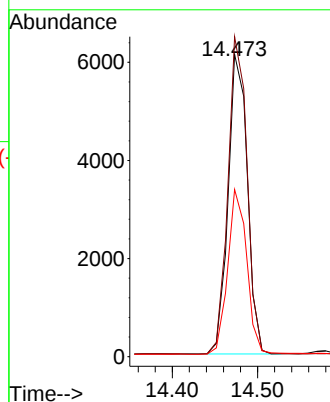
Tgt Ion:164 Resp: 9570

Ion Ratio Lower Upper

164 100

162 105.9 84.8 127.2

160 55.3 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 15.97 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

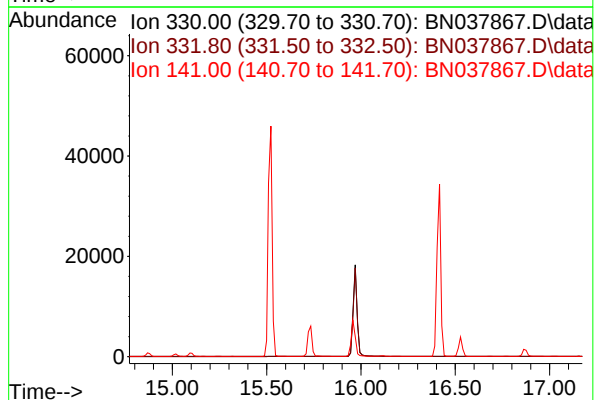
Tgt Ion: 330

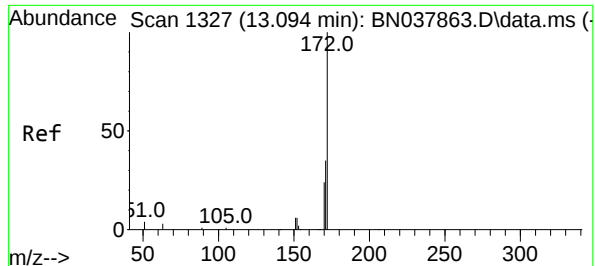
Sig Exp Ratio

330 100

332 96.5

141 46.5





#15

2-Fluorobiphenyl

Concen: 5.379 ng

RT: 13.094 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

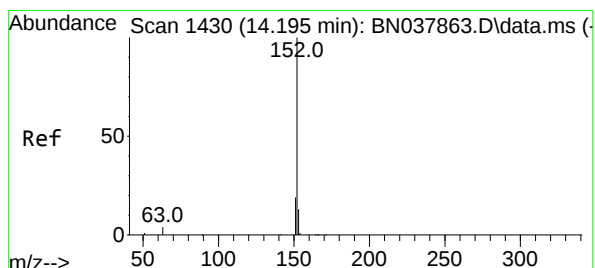
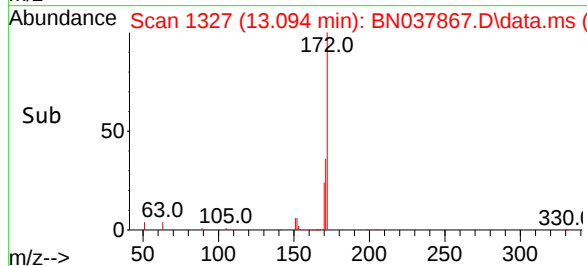
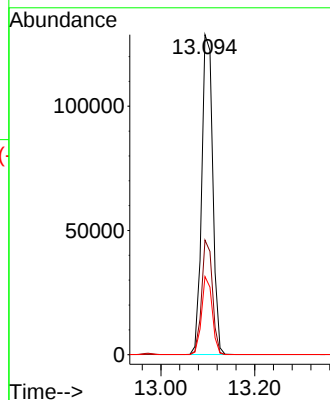
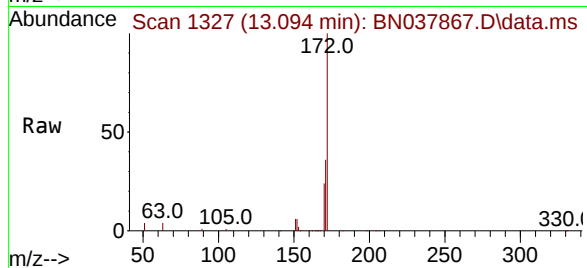
Tgt Ion:172 Resp: 210748

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.4 19.7 29.5



#16

Acenaphthylene

Concen: 5.765 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

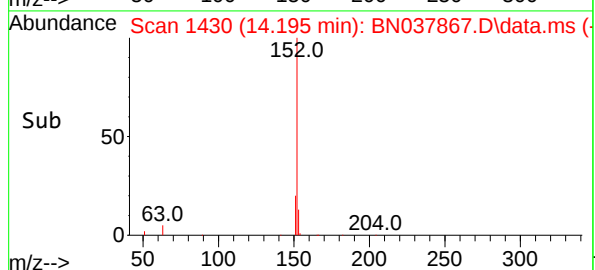
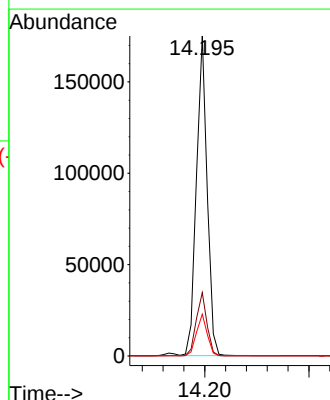
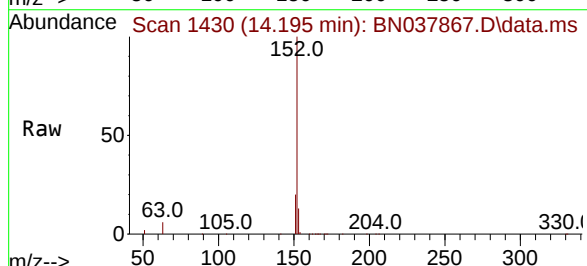
Tgt Ion:152 Resp: 250496

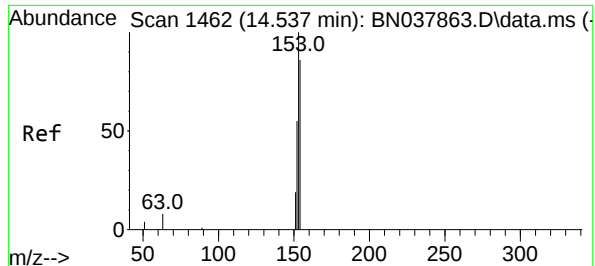
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7

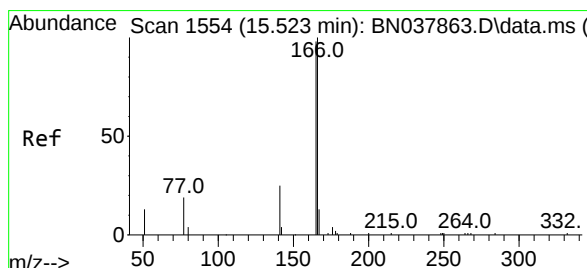
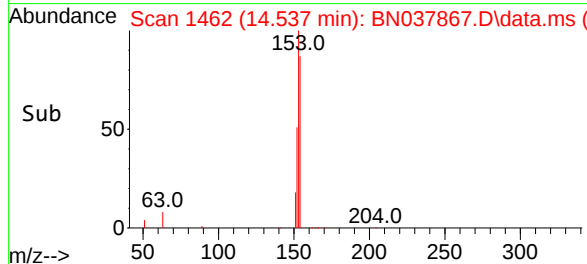
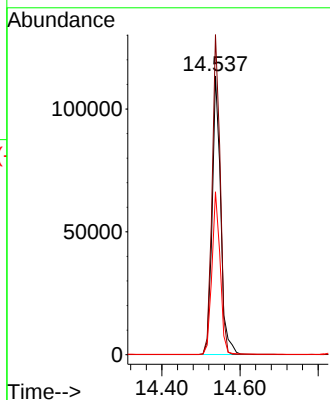
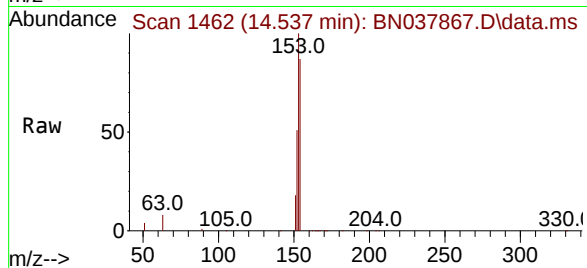




#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

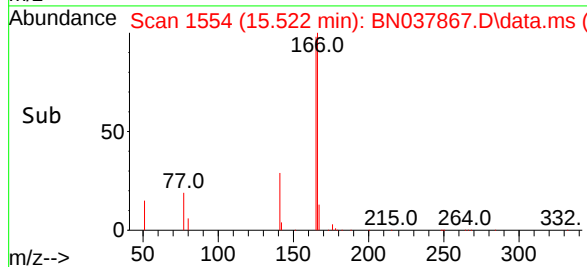
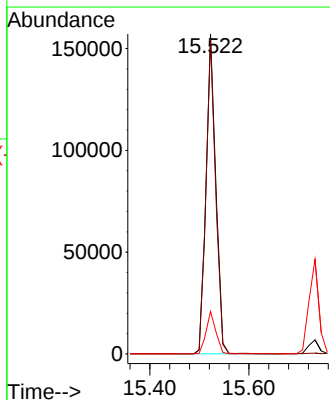
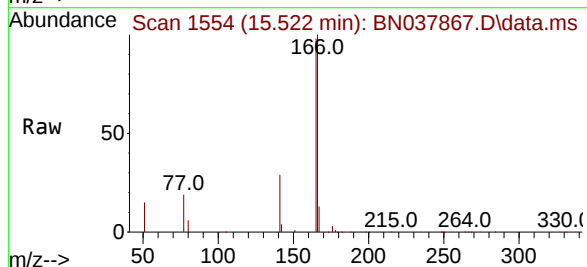
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

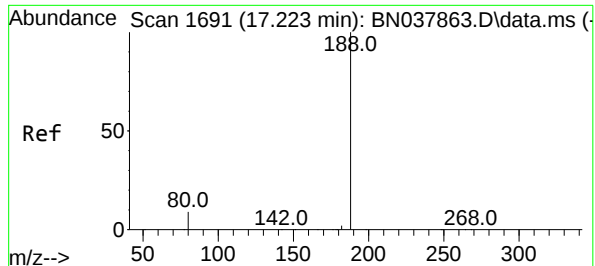
Tgt Ion	154	153	152
Resp:	171955	108.8	56.5
Ratio	100	108.8	56.5
Lower		90.5	51.8
Upper		135.7	77.8



#18
Fluorene
Concen: 5.583 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion	166	165	167
Resp:	209070	95.7	12.9
Ratio	100	95.7	12.9
Lower		79.0	10.6
Upper		118.4	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

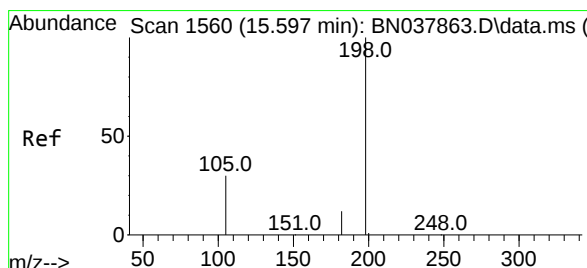
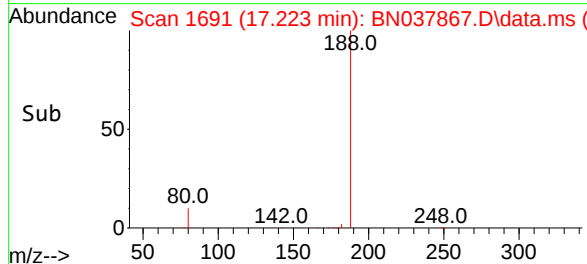
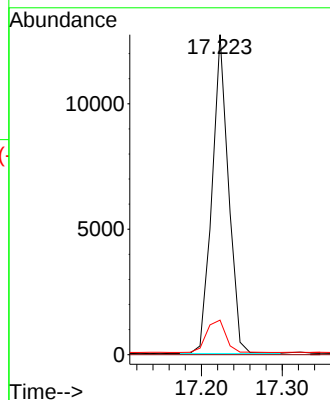
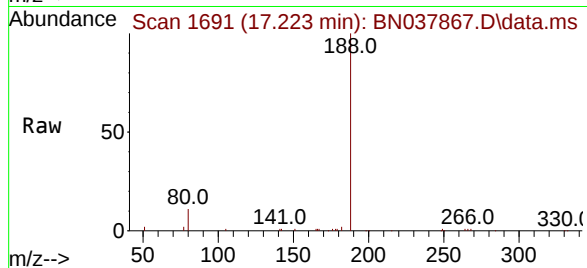
Tgt Ion:188 Resp: 17948

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.997 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

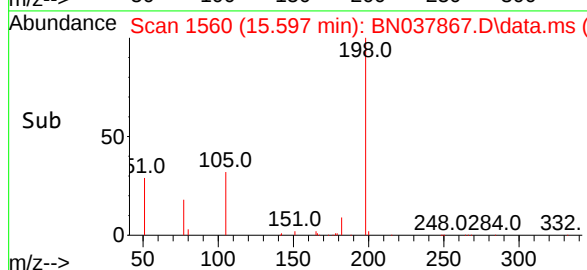
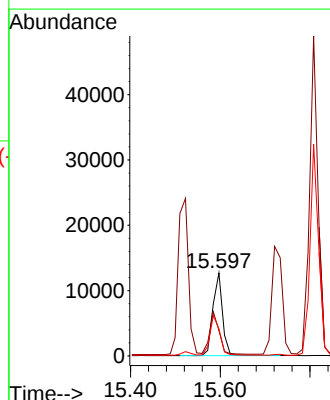
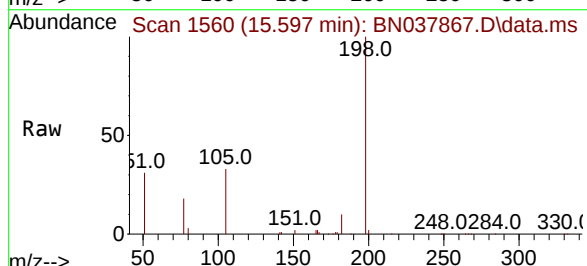
Tgt Ion:198 Resp: 18771

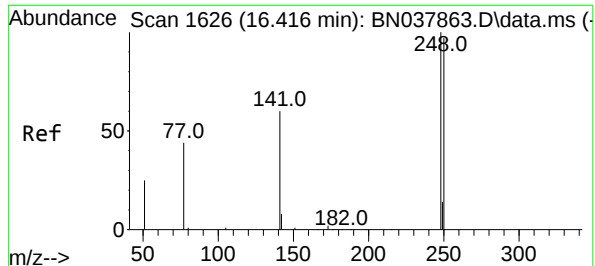
Ion Ratio Lower Upper

198 100

51 30.7 59.1 88.7#

105 32.7 41.3 61.9#

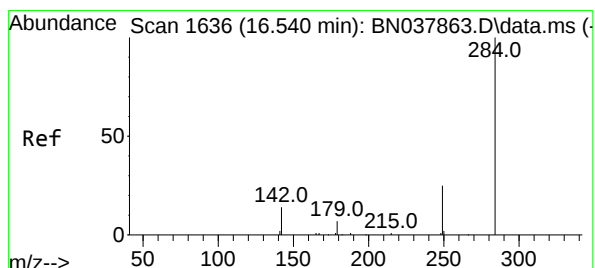
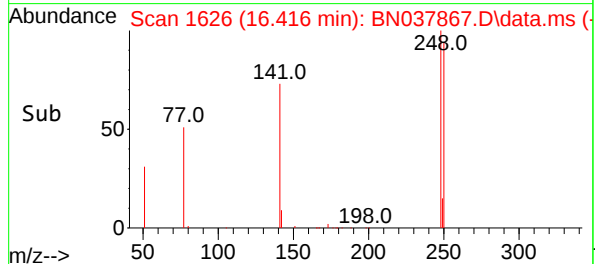
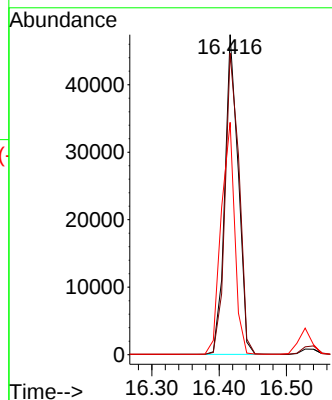
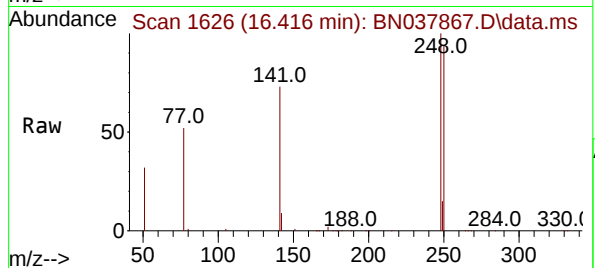




#21
4-Bromophenyl-phenylether
Concen: 5.577 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

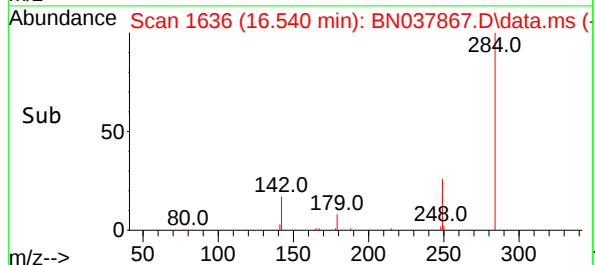
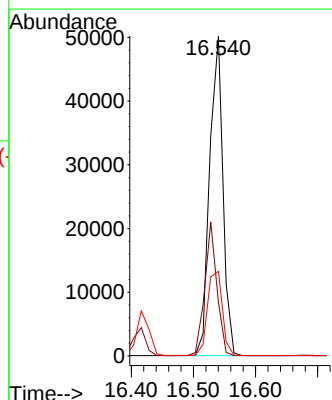
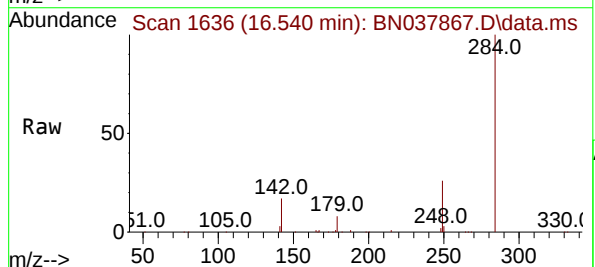
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

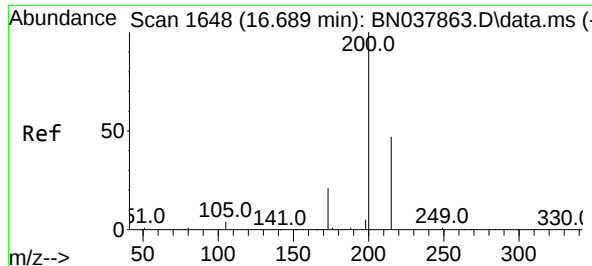
Tgt Ion:248 Resp: 65230
Ion Ratio Lower Upper
248 100
250 94.2 77.6 116.4
141 72.6 48.8 73.2



#22
Hexachlorobenzene
Concen: 5.252 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:284 Resp: 74475
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 29.6 23.9 35.9





#23

Atrazine

Concen: 6.284 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

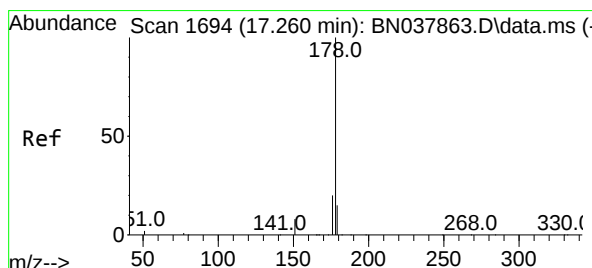
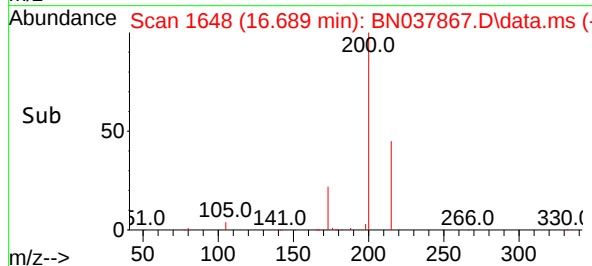
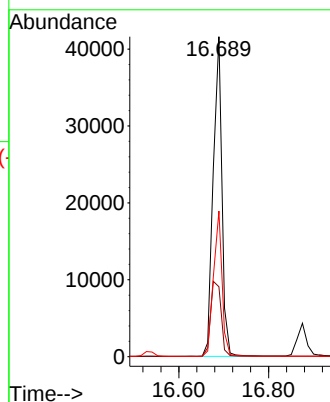
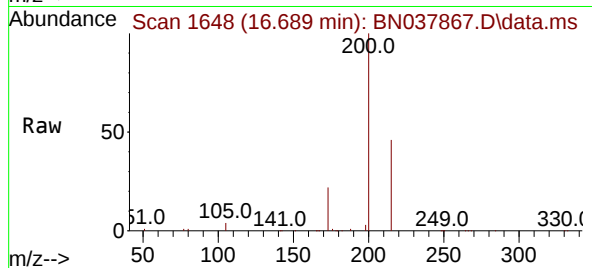
Tgt Ion:200 Resp: 55972

Ion Ratio Lower Upper

200 100

173 21.8 18.3 27.5

215 45.5 38.6 58.0



#25

Phenanthrene

Concen: 5.514 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

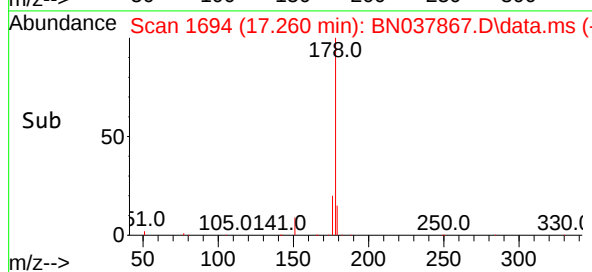
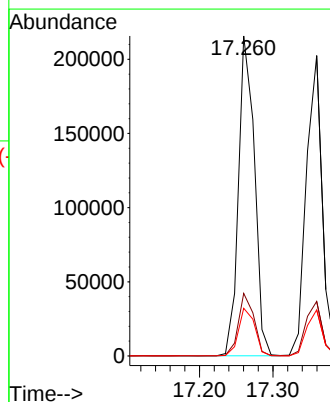
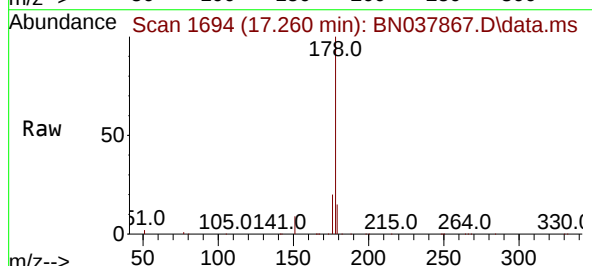
Tgt Ion:178 Resp: 325691

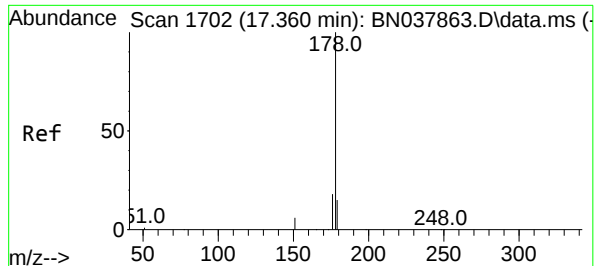
Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.1 12.3 18.5

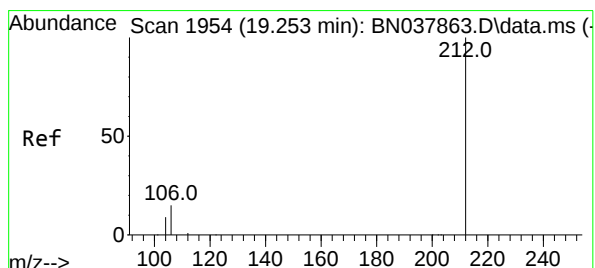
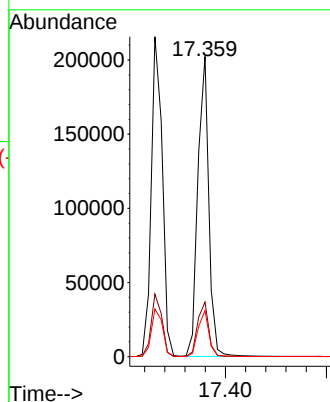
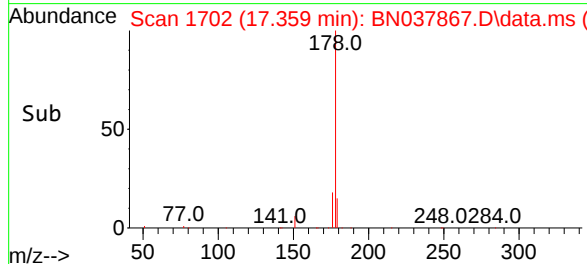
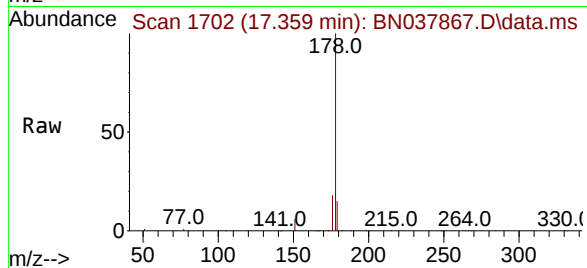




#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

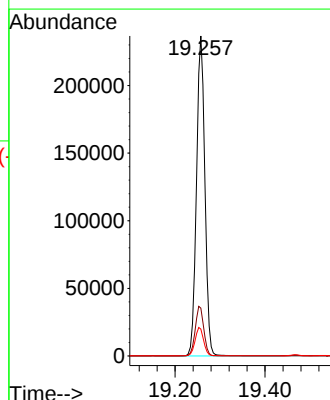
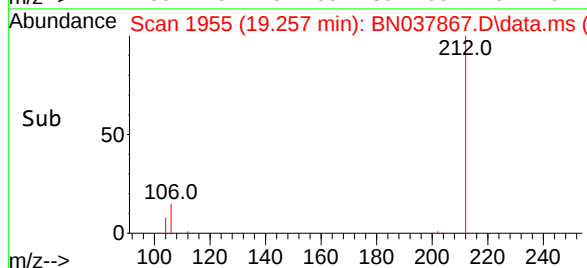
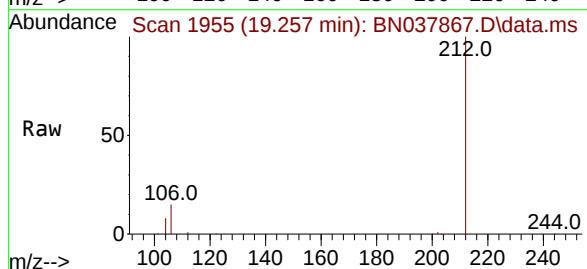
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

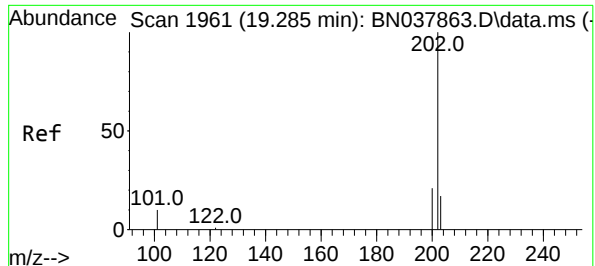
Tgt Ion:178 Resp: 305295
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5



#27
Fluoranthene-d10
Concen: 6.807 ng
RT: 19.257 min Scan# 1955
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:212 Resp: 307332
Ion Ratio Lower Upper
212 100
106 15.7 12.6 19.0
104 9.0 7.4 11.0

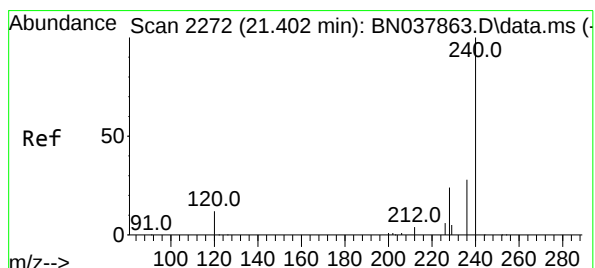
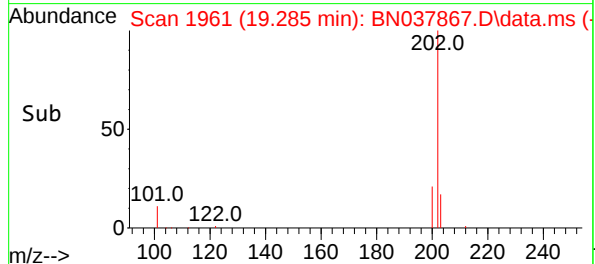
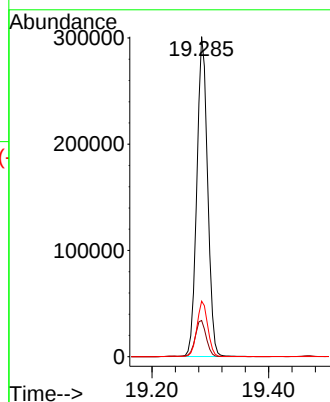
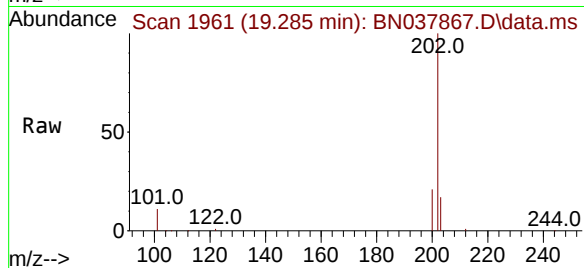




#28
Fluoranthene
Concen: 5.908 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

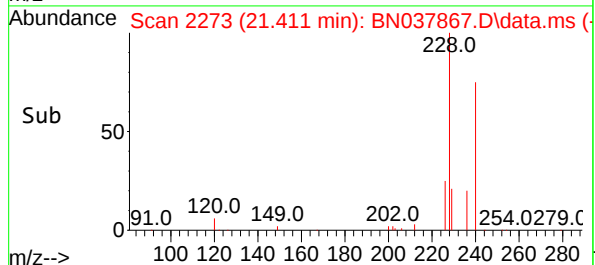
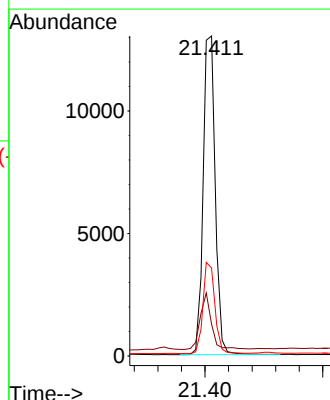
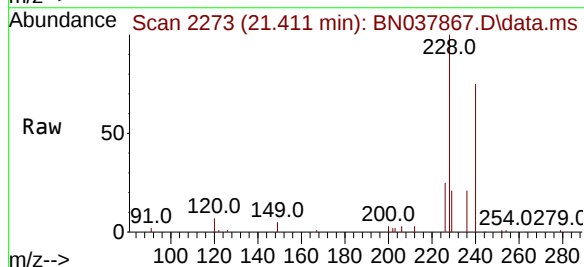
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

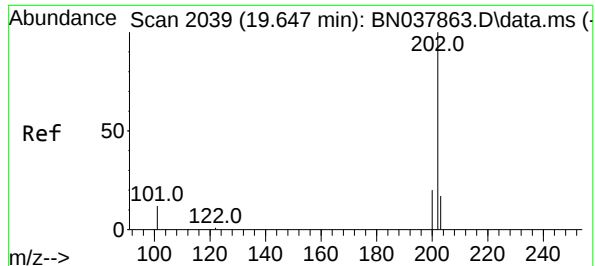
Tgt Ion:202 Resp: 384292
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.3 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:240 Resp: 18531
Ion Ratio Lower Upper
240 100
120 10.0 11.4 17.2#
236 27.5 23.0 34.6





#30

Pyrene

Concen: 5.315 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

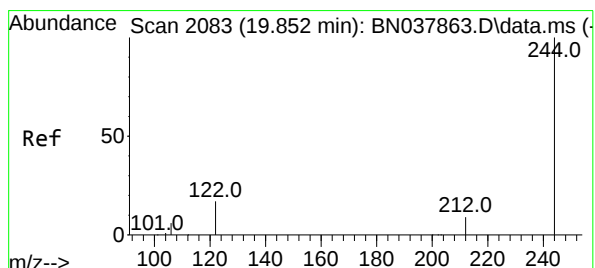
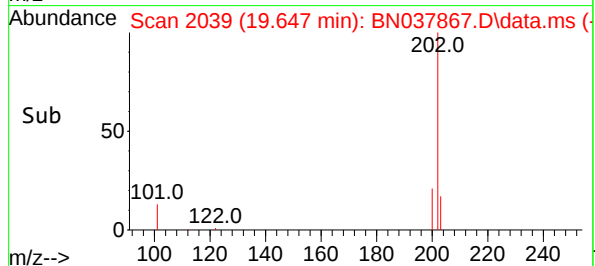
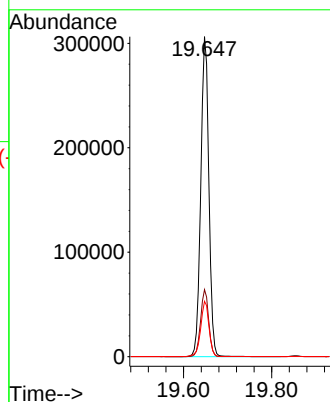
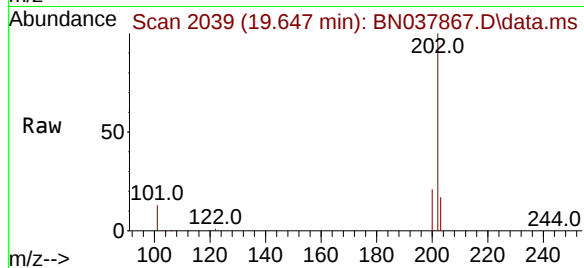
Tgt Ion:202 Resp: 388849

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4



#31

Terphenyl-d14

Concen: 5.606 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

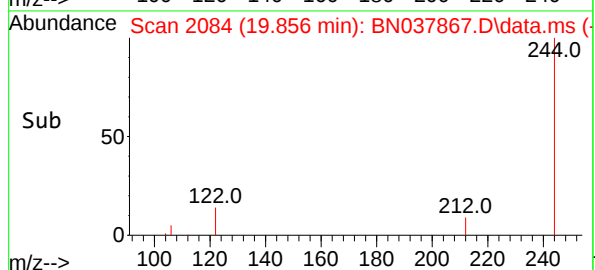
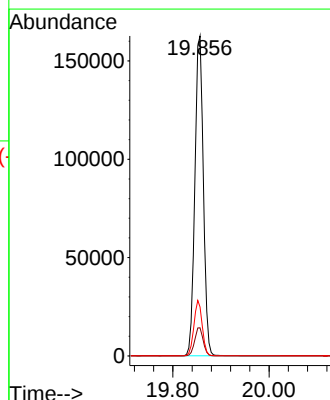
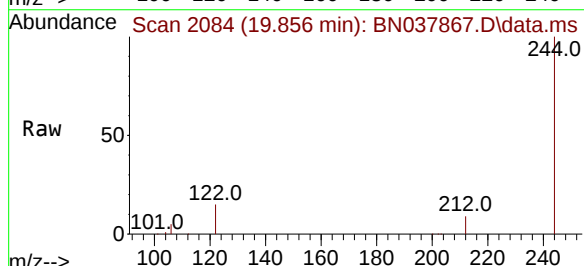
Tgt Ion:244 Resp: 206917

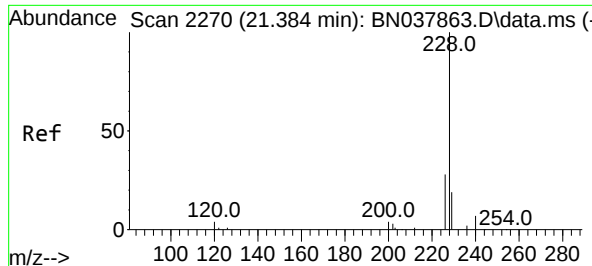
Ion Ratio Lower Upper

244 100

212 8.8 7.6 11.4

122 15.3 13.9 20.9

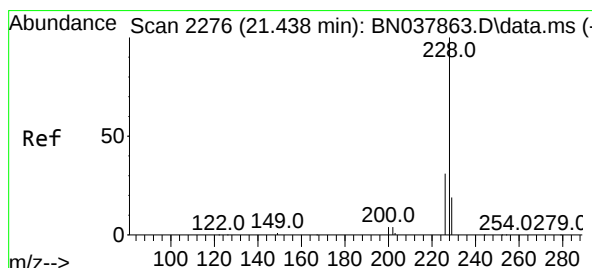
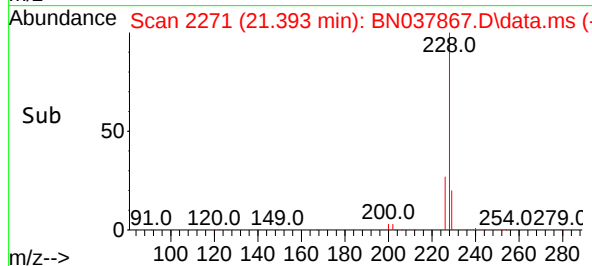
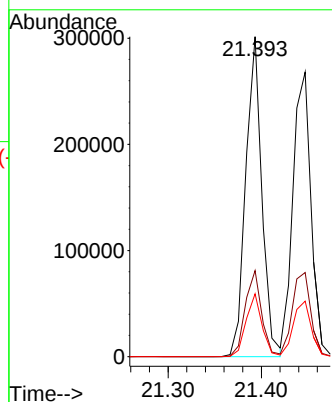
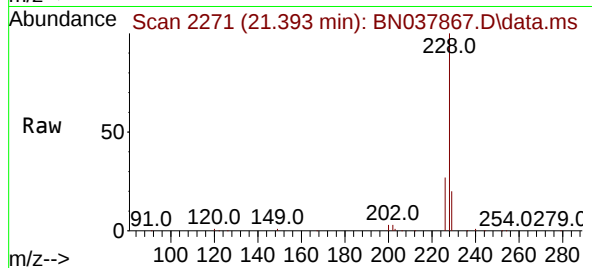




#32
Benzo(a)anthracene
Concen: 5.604 ng
RT: 21.393 min Scan# 2139
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

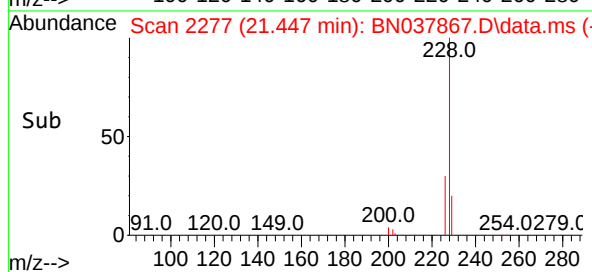
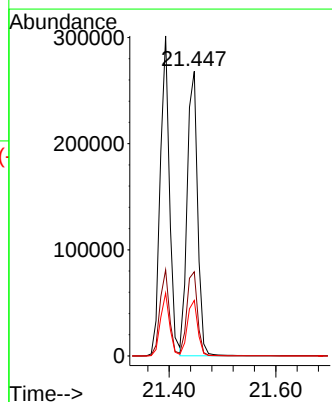
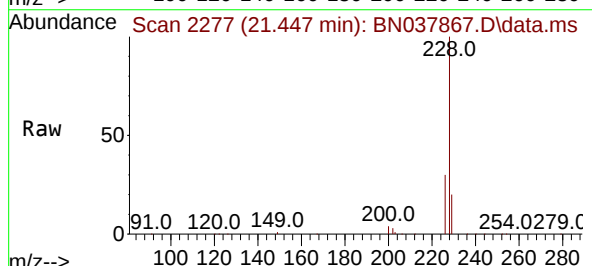
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

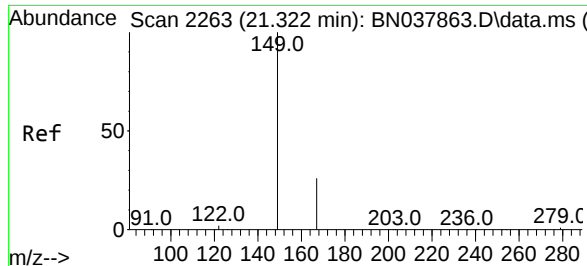
Tgt Ion:228 Resp: 362927
Ion Ratio Lower Upper
228 100
226 26.9 22.6 33.8
229 19.7 15.6 23.4



#33
Chrysene
Concen: 5.189 ng
RT: 21.447 min Scan# 2277
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:228 Resp: 363421
Ion Ratio Lower Upper
228 100
226 29.6 24.6 37.0
229 19.5 15.6 23.4

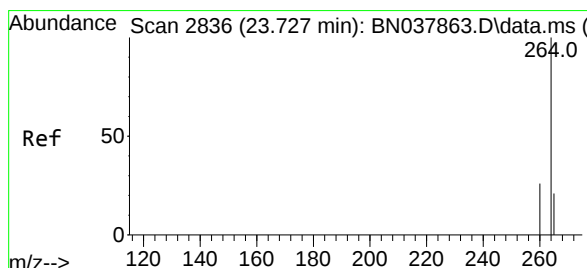
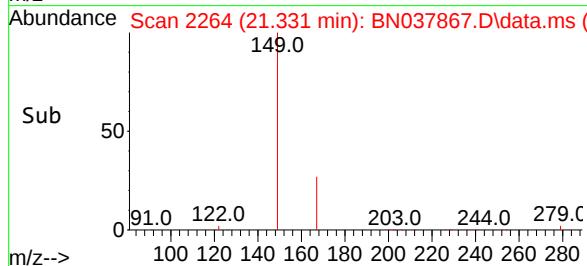
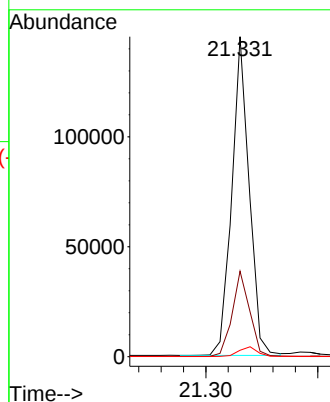
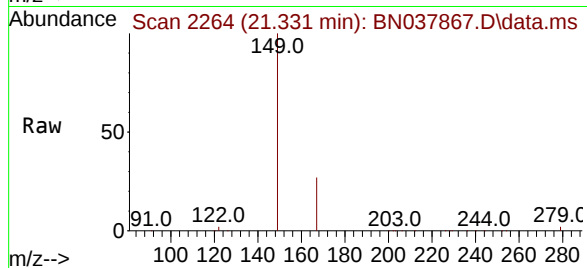




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.109 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

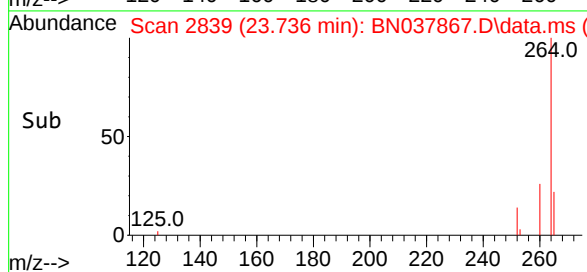
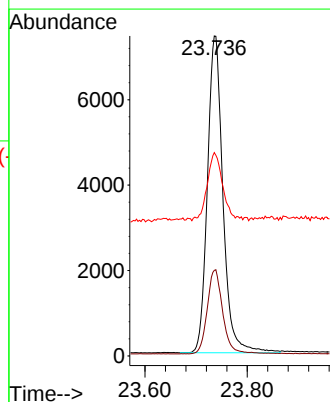
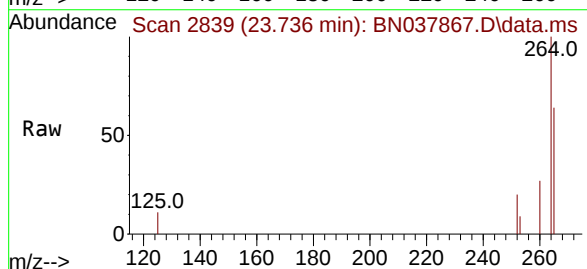
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

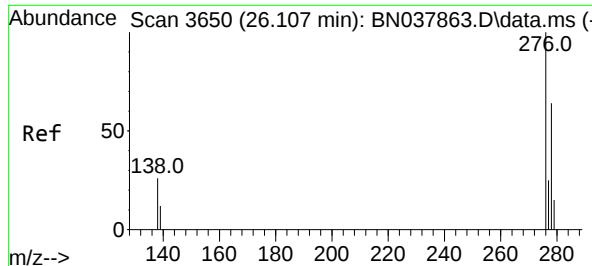
Tgt Ion:149 Resp: 156492
Ion Ratio Lower Upper
149 100
167 26.8 20.4 30.6
279 3.2 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:264 Resp: 15649
Ion Ratio Lower Upper
264 100
260 26.8 21.5 32.3
265 63.5 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.906 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

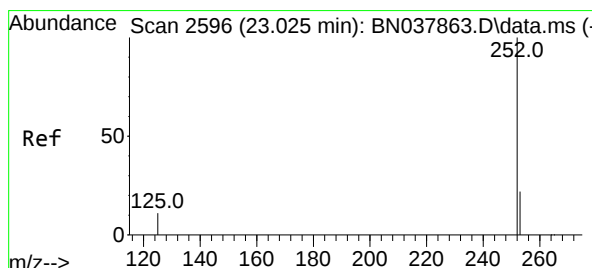
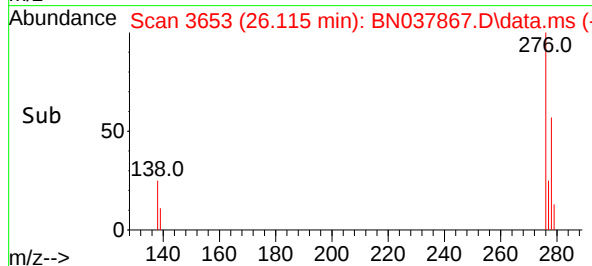
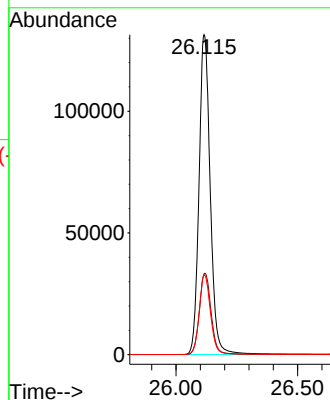
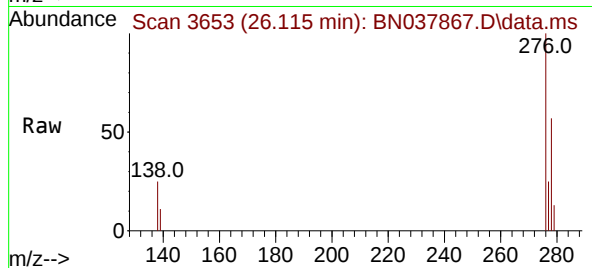
Tgt Ion:276 Resp: 422337

Ion Ratio Lower Upper

276 100

138 26.3 21.4 32.0

277 25.1 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 5.742 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

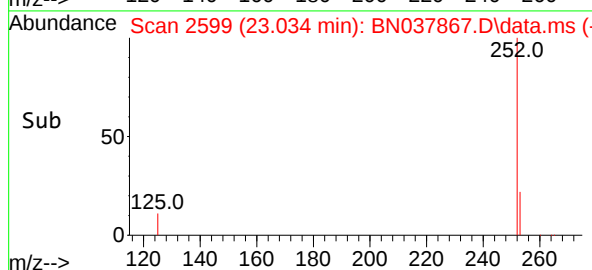
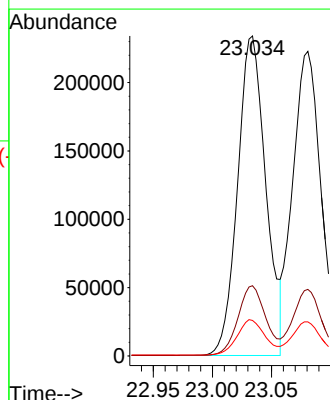
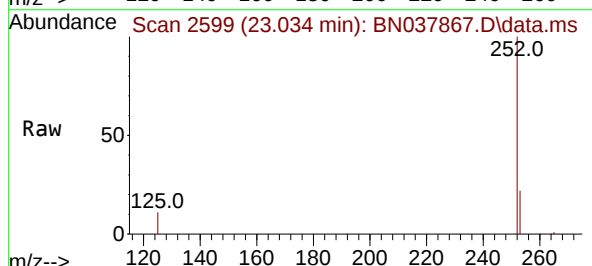
Tgt Ion:252 Resp: 387512

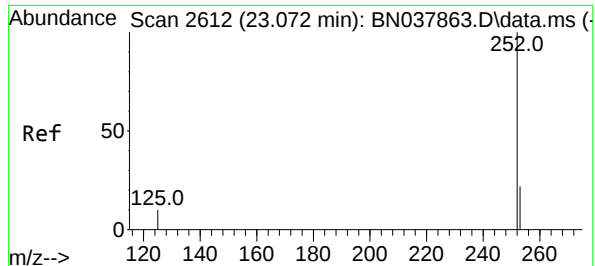
Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.0

125 11.1 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 23.081 min Scan# 2

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

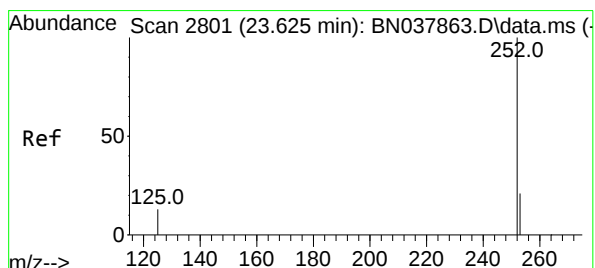
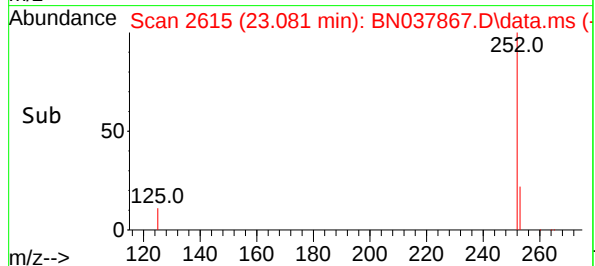
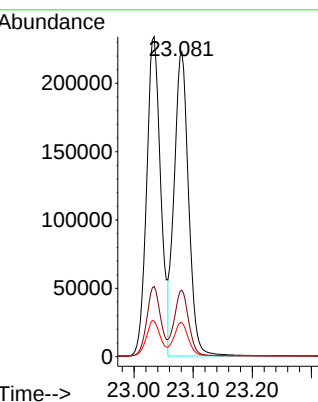
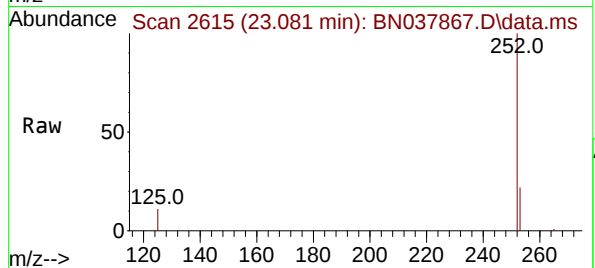
Tgt Ion:252 Resp: 376732

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 11.2 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 5.900 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

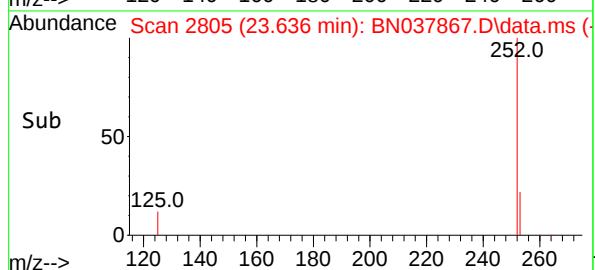
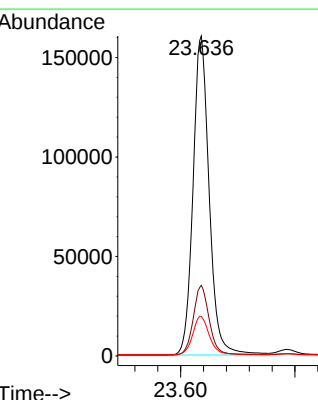
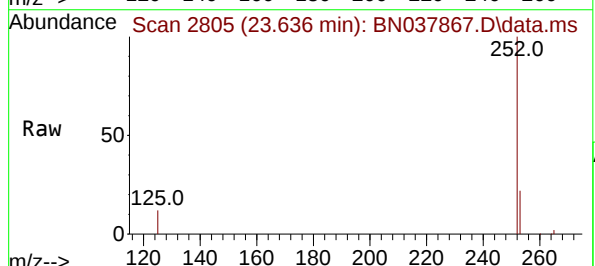
Tgt Ion:252 Resp: 314913

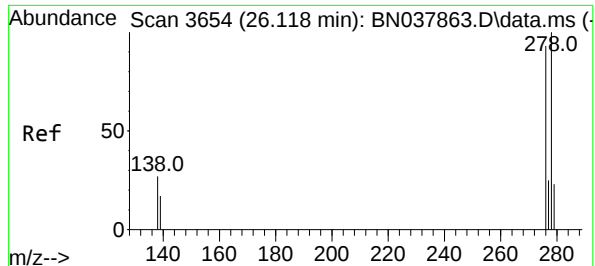
Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

125 12.3 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 5.971 ng

RT: 26.133 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

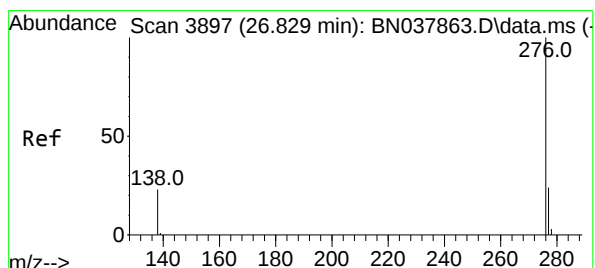
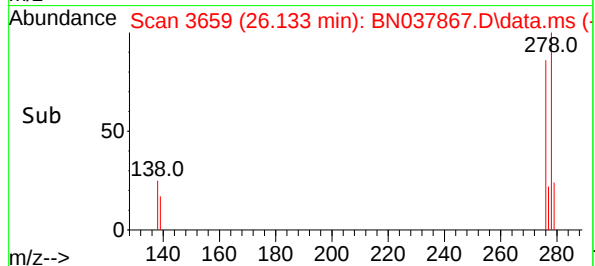
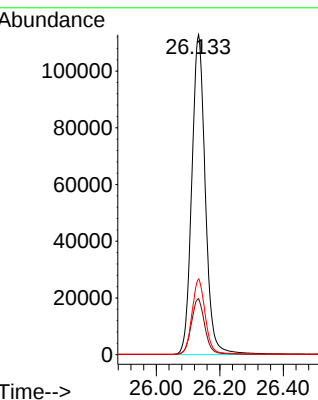
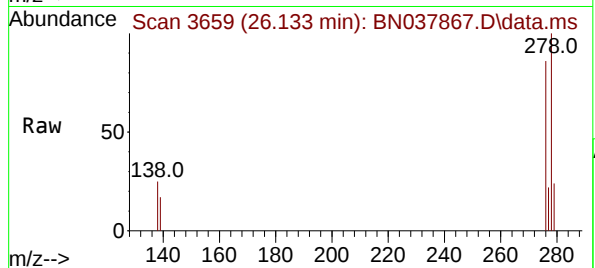
Tgt Ion:278 Resp: 333427

Ion Ratio Lower Upper

278 100

139 17.5 15.4 23.2

279 23.6 20.8 31.2



#41

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 26.840 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

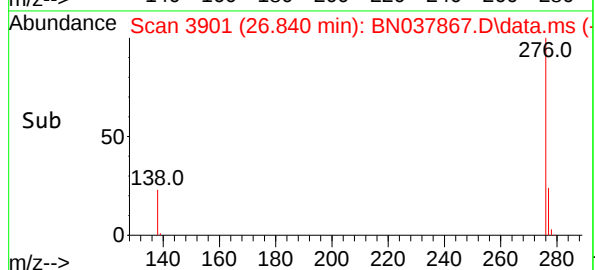
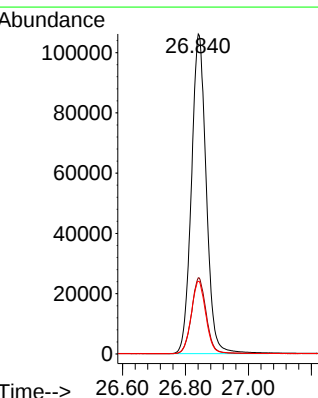
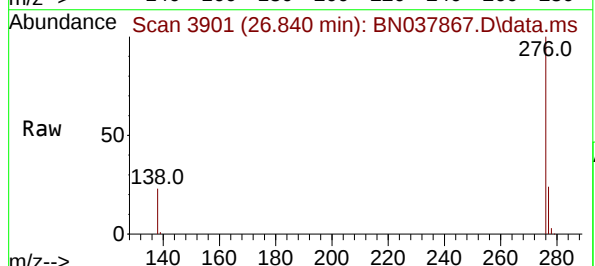
Tgt Ion:276 Resp: 346868

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 22.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

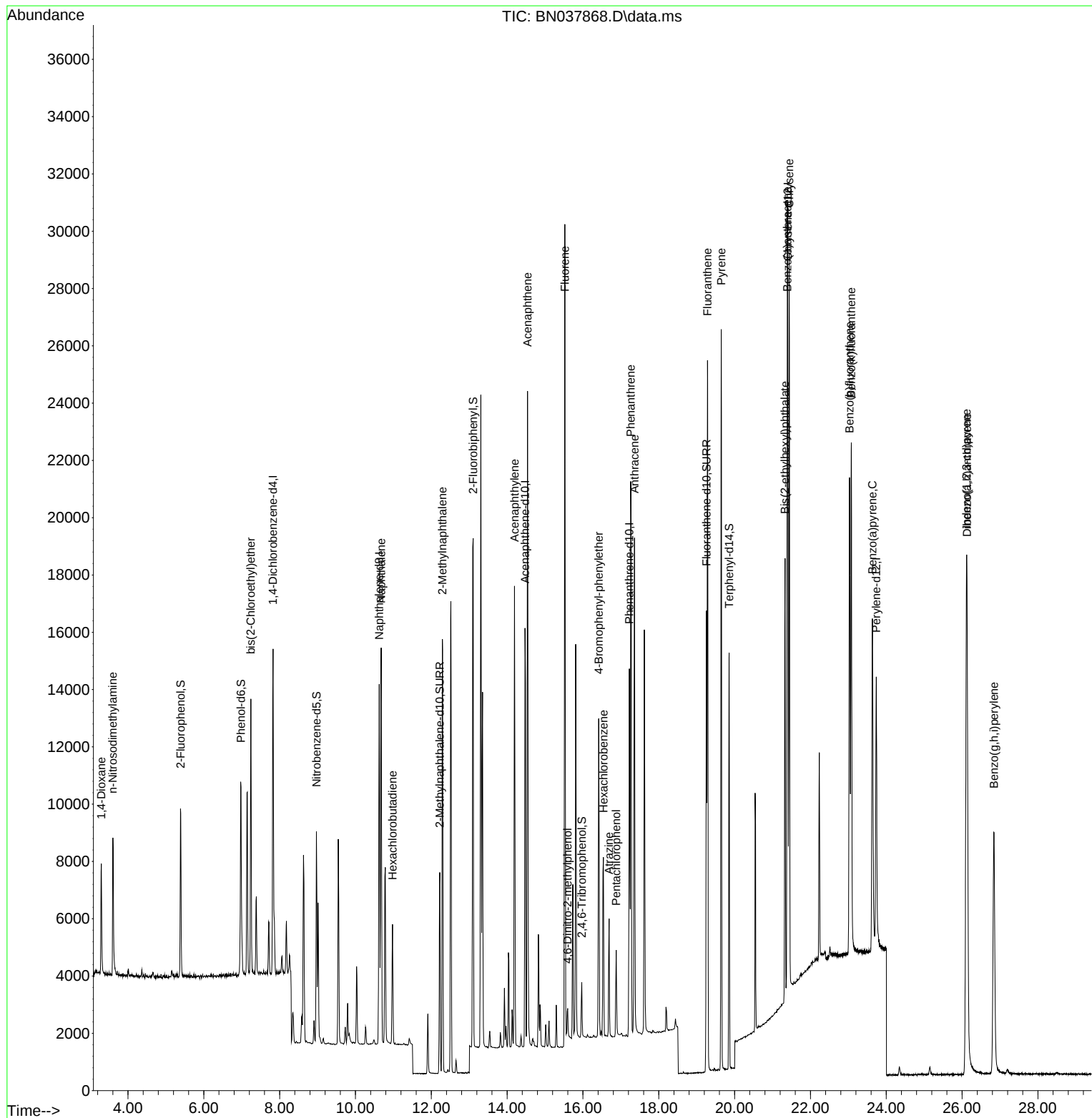
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	14204	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13265	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5005	0.394	ng	0.00
5) Phenol-d6	6.980	99	6375	0.382	ng	0.00
8) Nitrobenzene-d5	8.971	82	5453	0.442	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	9492	0.423	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1107	0.346	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	16723	0.485	ng	0.01
27) Fluoranthene-d10	19.257	212	16910	0.413	ng	0.00
31) Terphenyl-d14	19.856	244	13646	0.482	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2698	0.477	ng	98
3) n-Nitrosodimethylamine	3.600	42	3070	0.408	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	6823	0.440	ng	99
9) Naphthalene	10.680	128	18392	0.413	ng	99
10) Hexachlorobutadiene	10.979	225	3253	0.428	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10904	0.375	ng	99
16) Acenaphthylene	14.195	152	16721	0.437	ng	99
17) Acenaphthene	14.537	154	11059	0.406	ng	99
18) Fluorene	15.522	166	13327	0.404	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	737	0.418	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	4157	0.392	ng	# 89
22) Hexachlorobenzene	16.540	284	5455	0.424	ng	100
23) Atrazine	16.689	200	3196	0.396	ng	98
24) Pentachlorophenol	16.875	266	1396	0.316	ng	99
25) Phenanthrene	17.260	178	22020	0.411	ng	100
26) Anthracene	17.360	178	18967	0.408	ng	99
28) Fluoranthene	19.285	202	23044	0.391	ng	100
30) Pyrene	19.647	202	22563	0.402	ng	100
32) Benzo(a)anthracene	21.393	228	20398	0.411	ng	99
33) Chrysene	21.438	228	22204	0.414	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	7939	0.404	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	25340	0.418	ng	99
37) Benzo(b)fluoranthene	23.031	252	22193	0.388	ng	99
38) Benzo(k)fluoranthene	23.078	252	23886	0.415	ng	100
39) Benzo(a)pyrene	23.633	252	19091	0.422	ng	100
40) Dibenzo(a,h)anthracene	26.130	278	19441	0.411	ng	100
41) Benzo(g,h,i)perylene	26.841	276	19570	0.394	ng	99

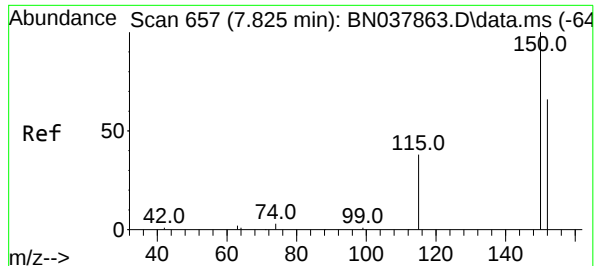
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

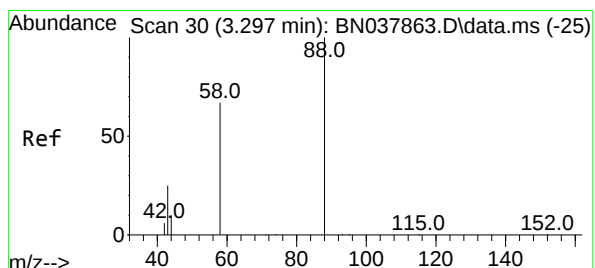
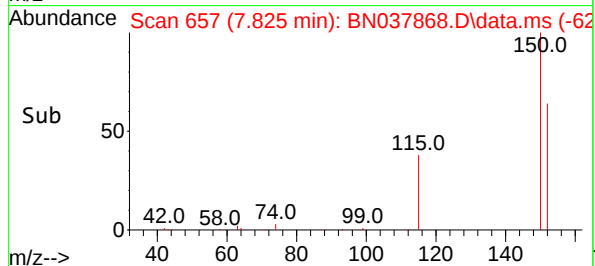
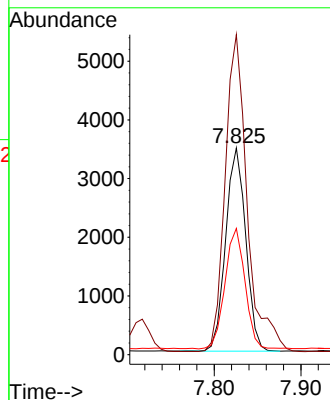
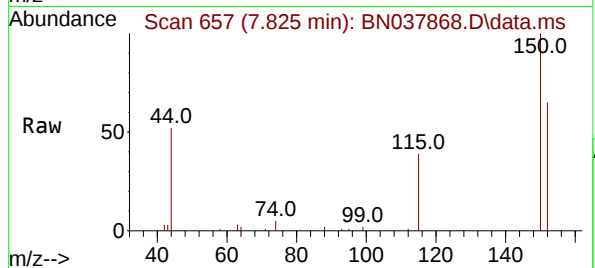




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

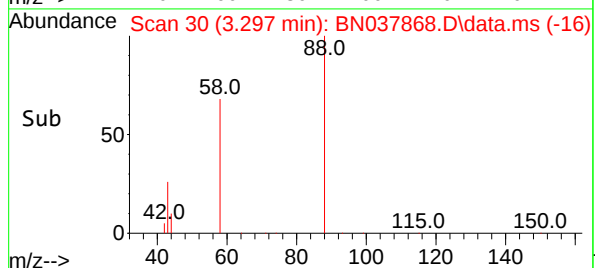
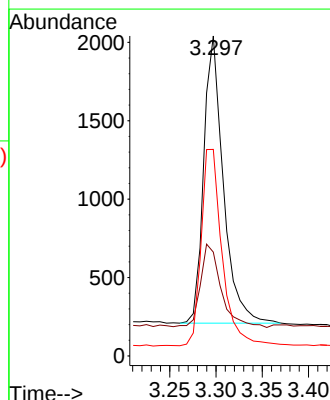
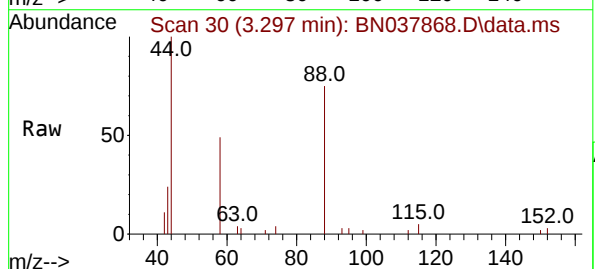
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

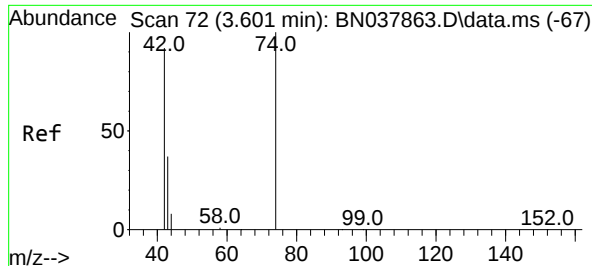
Tgt Ion:152 Resp: 5572
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 0.477 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 88 Resp: 2698
Ion Ratio Lower Upper
88 100
43 30.6 26.6 39.8
58 72.8 58.9 88.3

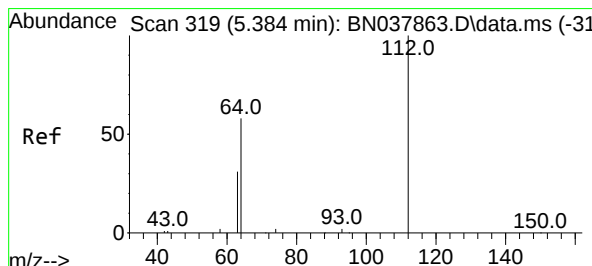
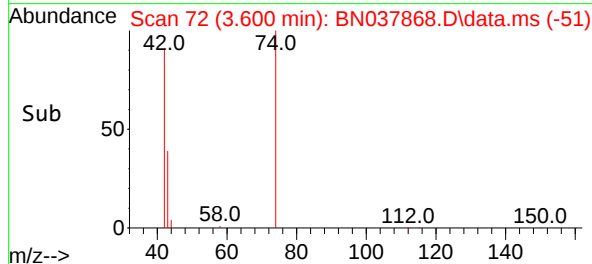
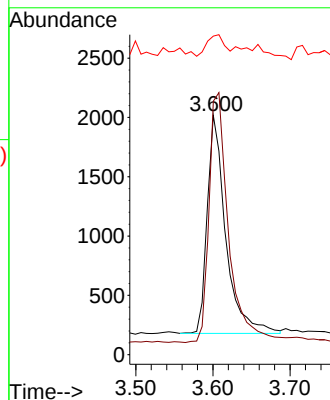
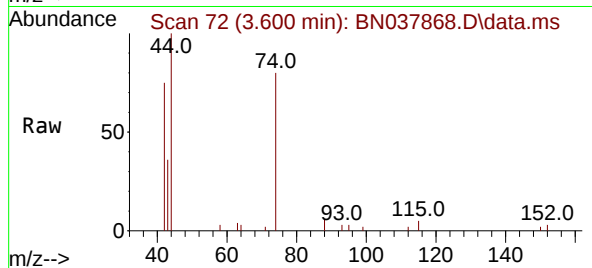




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

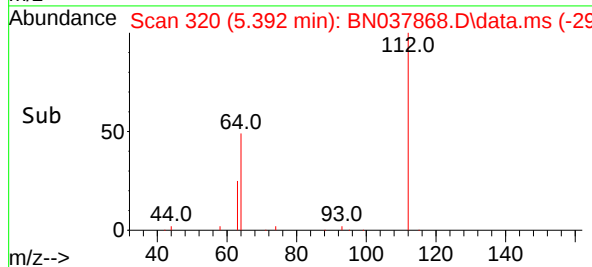
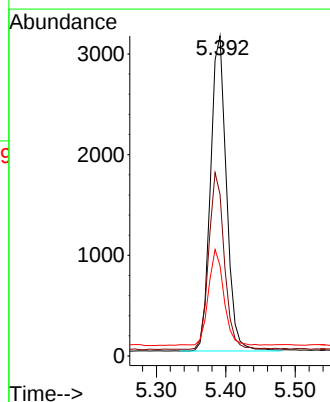
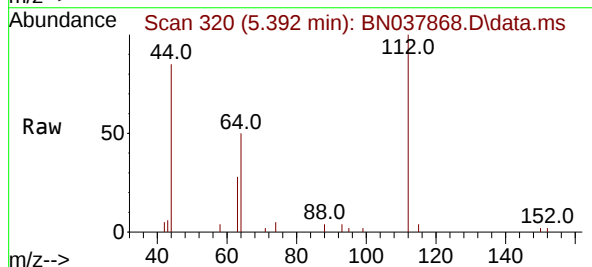
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

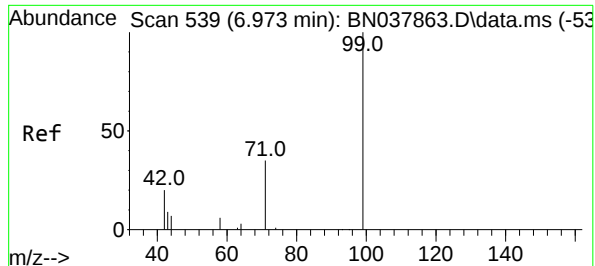
Tgt Ion: 42 Resp: 3070
Ion Ratio Lower Upper
42 100
74 121.8 93.4 140.0
44 9.2 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 112 Resp: 5005
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 29.8 24.9 37.3

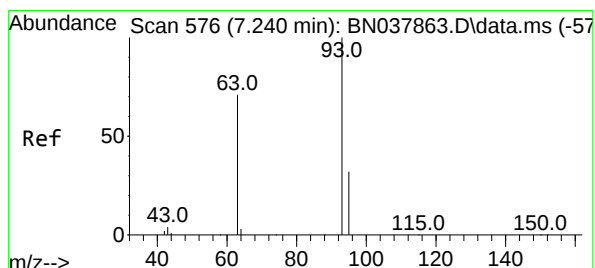
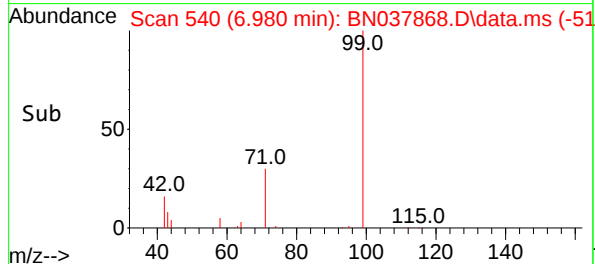
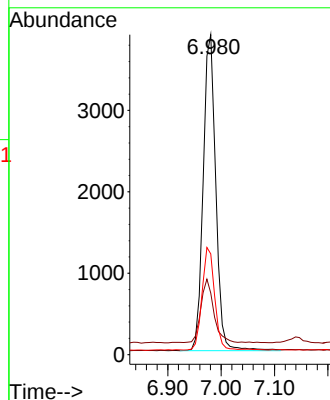
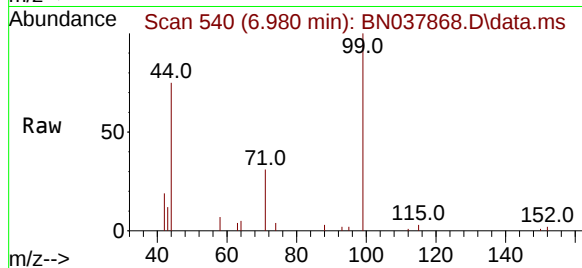




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

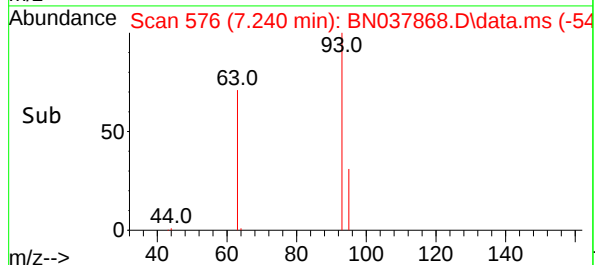
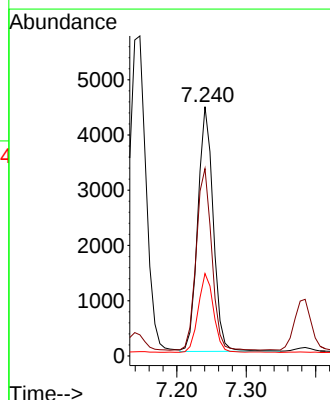
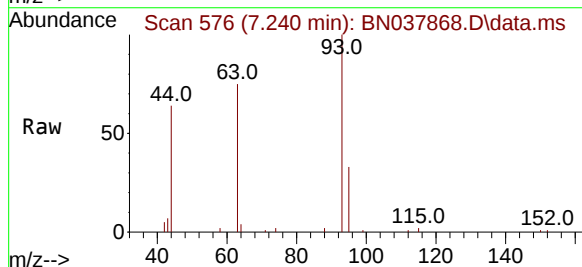
Instrument :
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ClientSampleId :
ICVBN092325

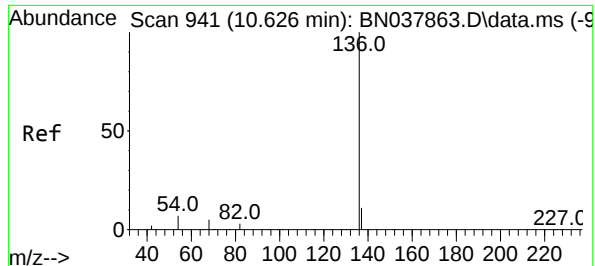
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.2	25.8
71	32.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.7	60.1	90.1
95	32.3	25.4	38.2

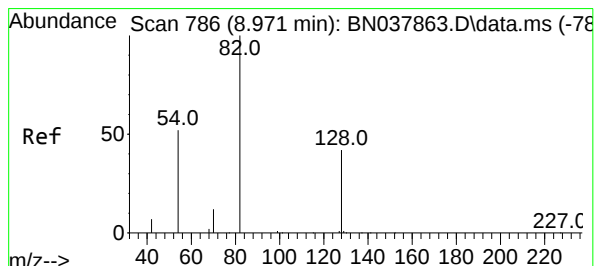
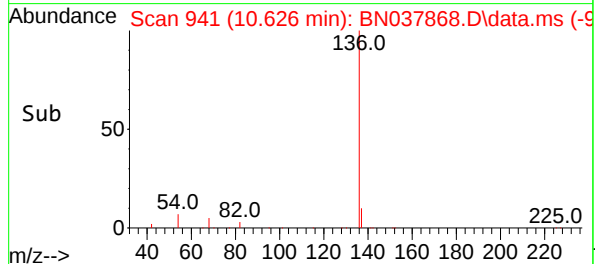
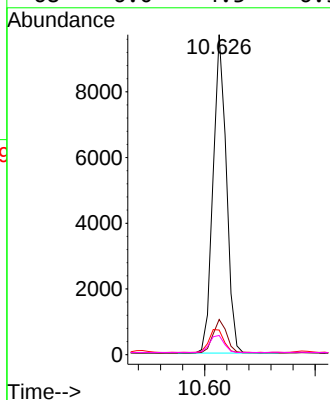
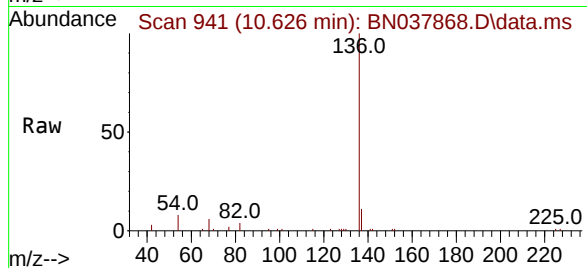




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

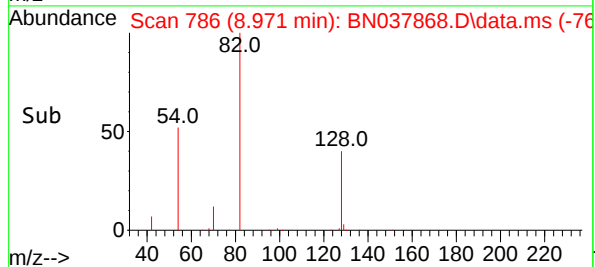
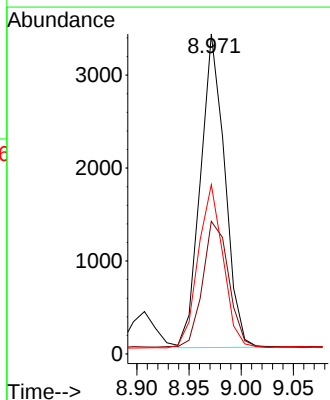
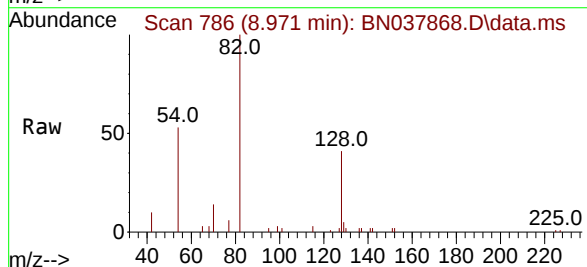
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ClientSampleId :
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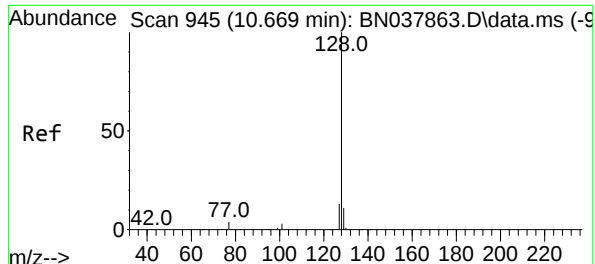
Tgt Ion:	136	Resp:	16158
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.7	5.8	8.8
68	6.0	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.442 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:	82	Resp:	5453
Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.8	52.2
54	52.9	42.2	63.2

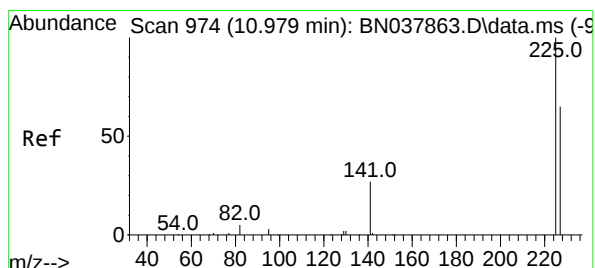
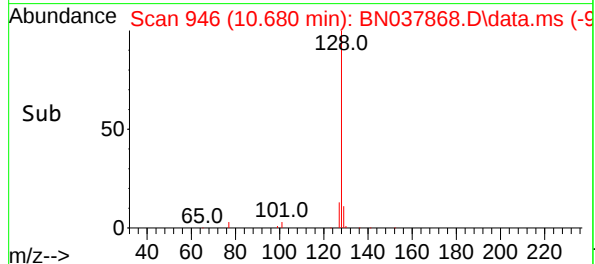
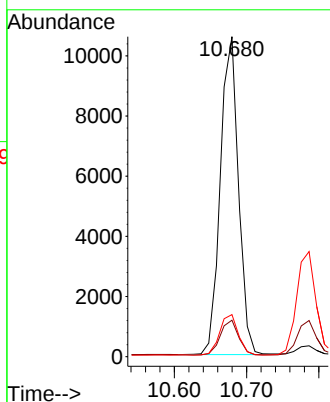
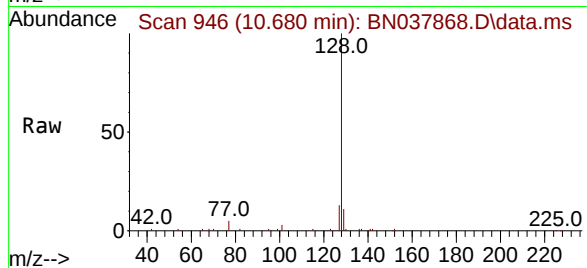




#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

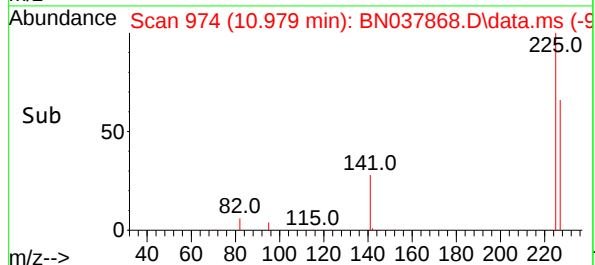
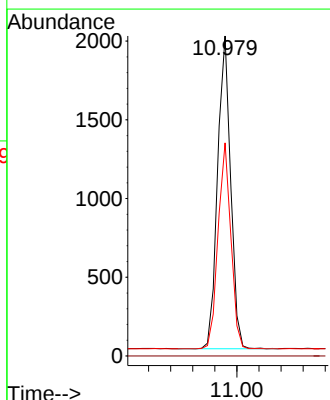
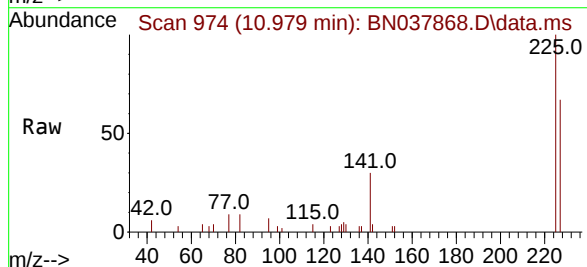
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

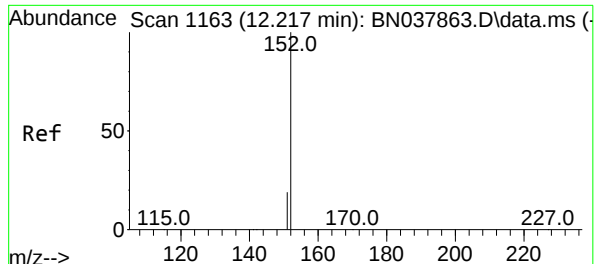
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.4	77.2

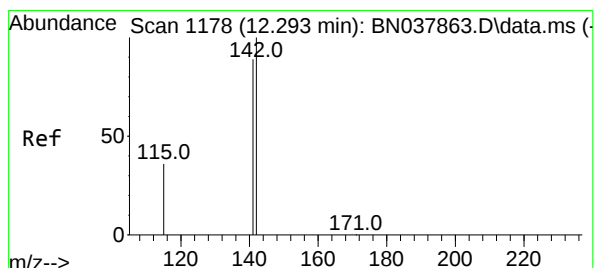
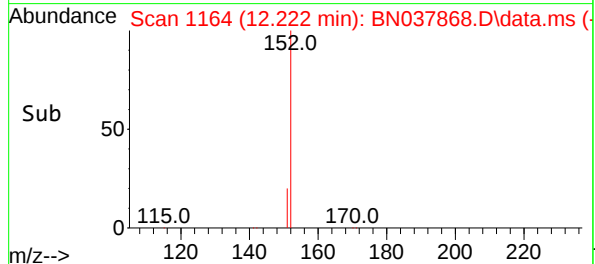
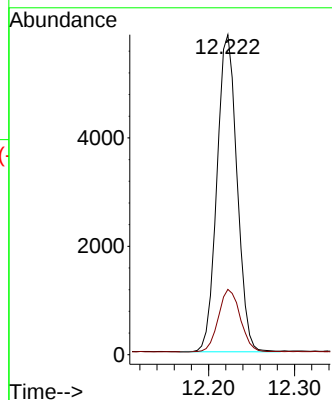
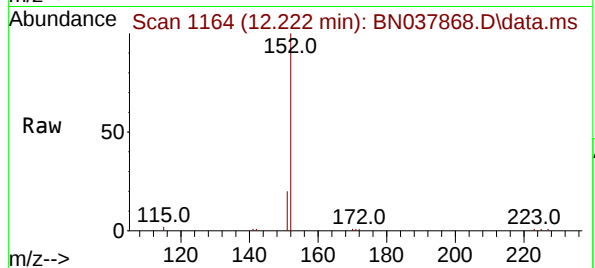




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

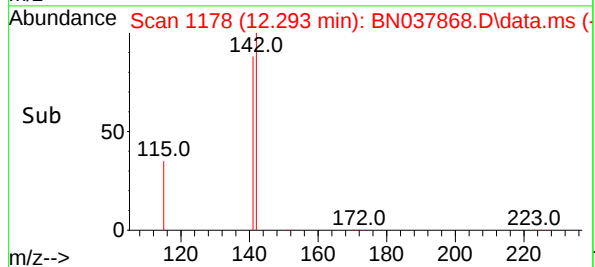
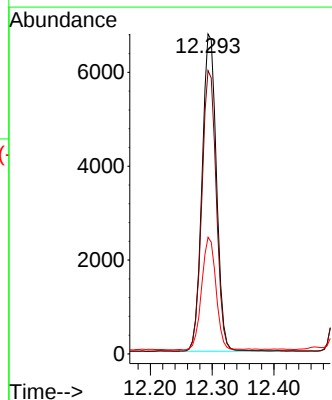
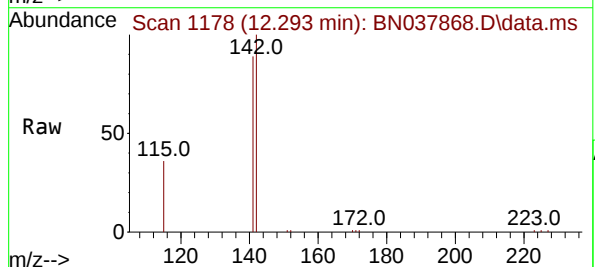
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

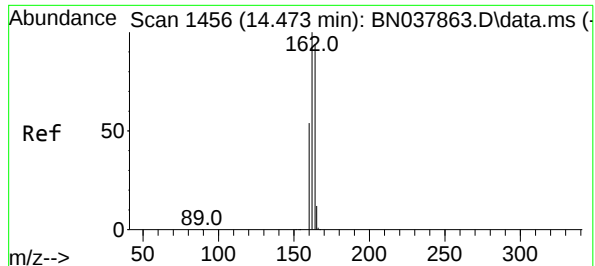
Tgt Ion:152 Resp: 9492
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:142 Resp: 10904
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 36.5 29.7 44.5

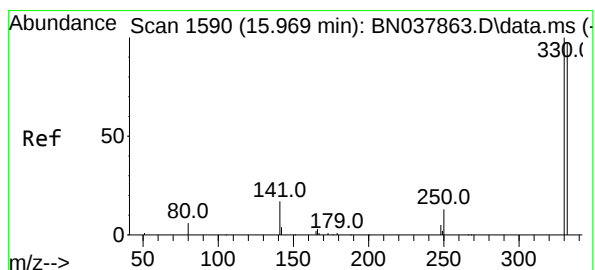
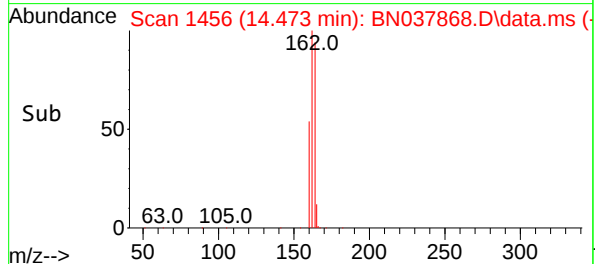
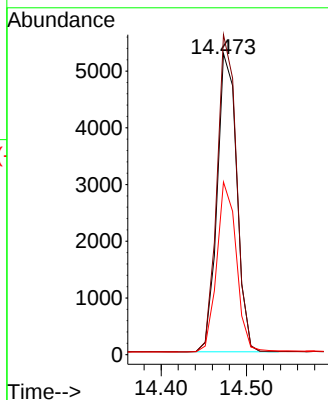
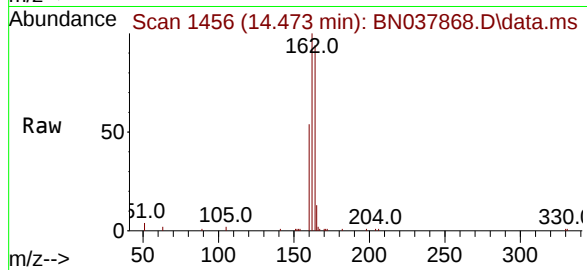




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

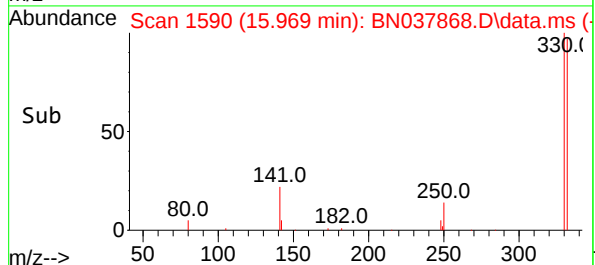
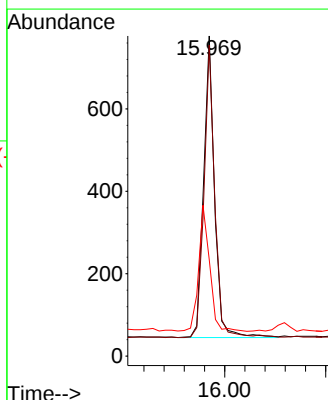
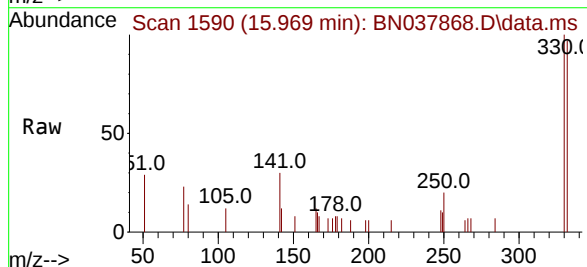
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

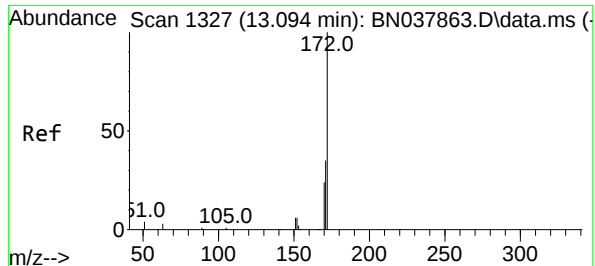
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.8	127.2
160	57.3	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	77.2	115.8
141	42.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 0.485 ng

RT: 13.105 min Scan# 11

Delta R.T. 0.011 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

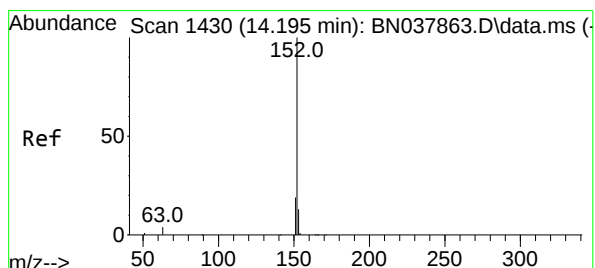
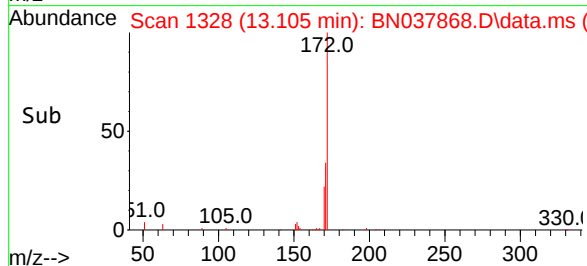
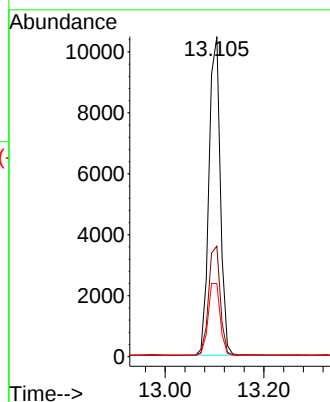
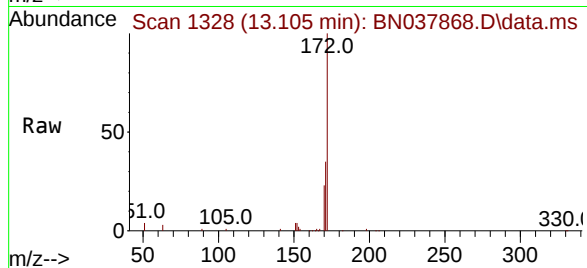
Tgt Ion:172 Resp: 16723

Ion Ratio Lower Upper

172 100

171 34.6 28.6 43.0

170 22.9 19.7 29.5



#16

Acenaphthylene

Concen: 0.437 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

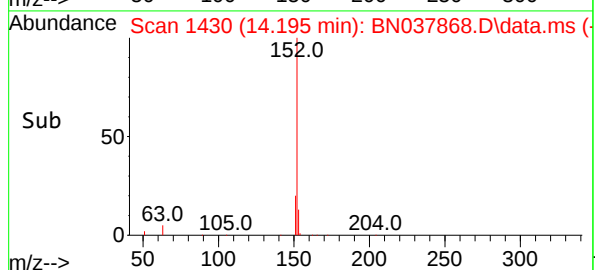
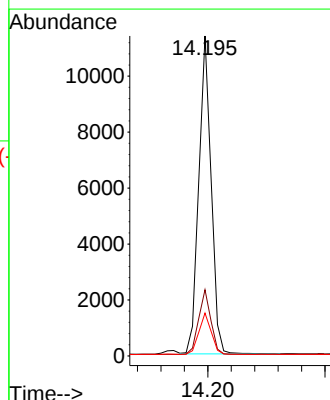
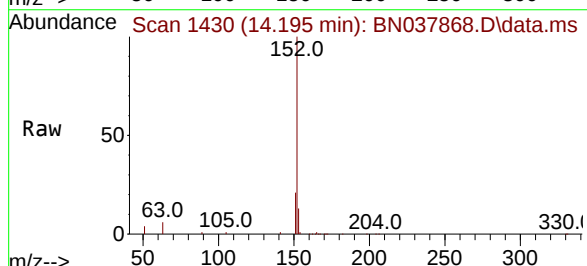
Tgt Ion:152 Resp: 16721

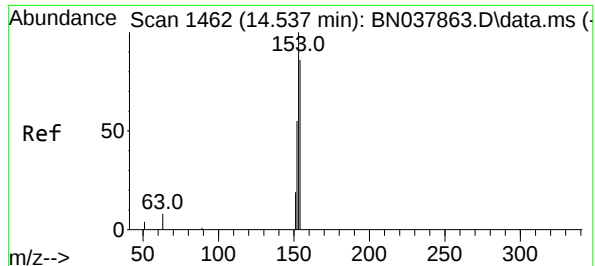
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 0.406 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

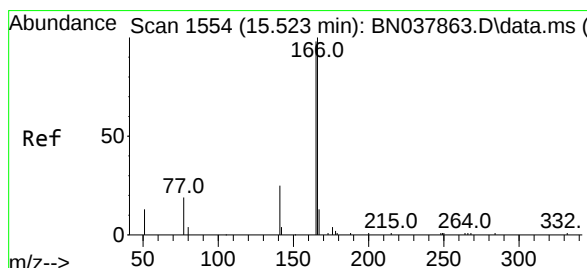
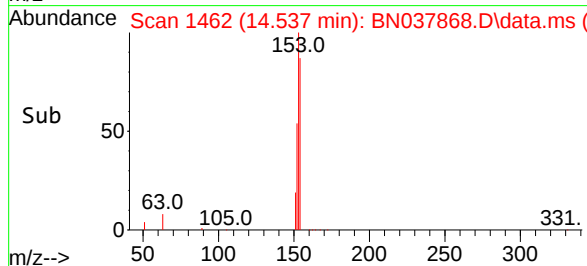
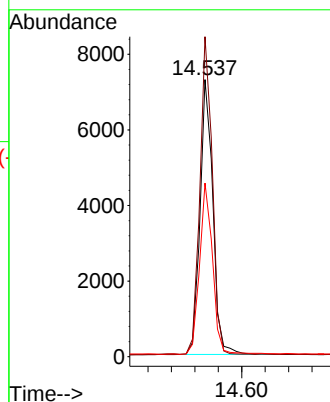
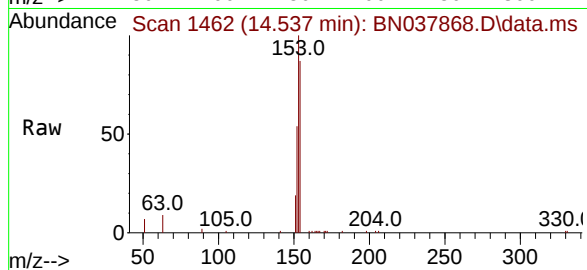
Tgt Ion:154 Resp: 11059

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

152 63.5 51.8 77.8



#18

Fluorene

Concen: 0.404 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

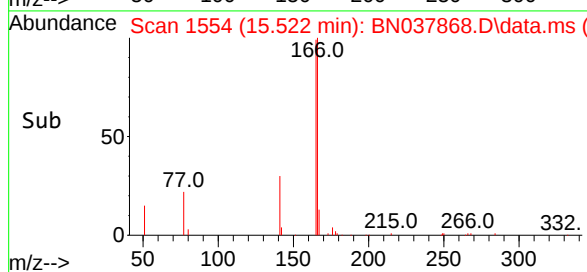
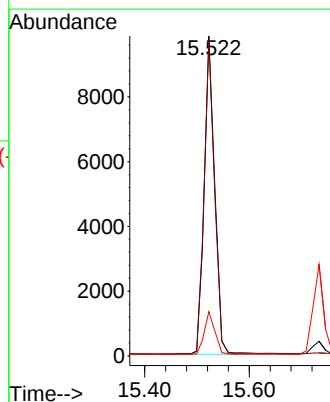
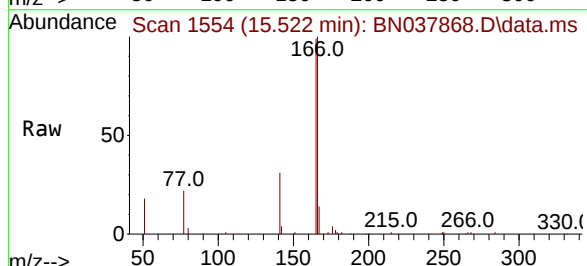
Tgt Ion:166 Resp: 13327

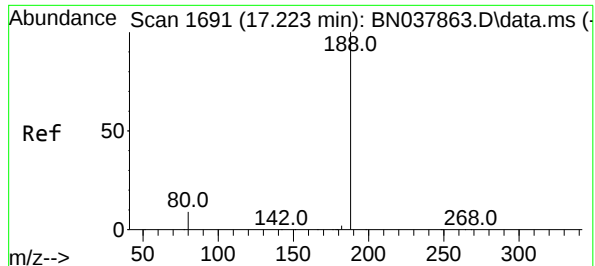
Ion Ratio Lower Upper

166 100

165 95.9 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

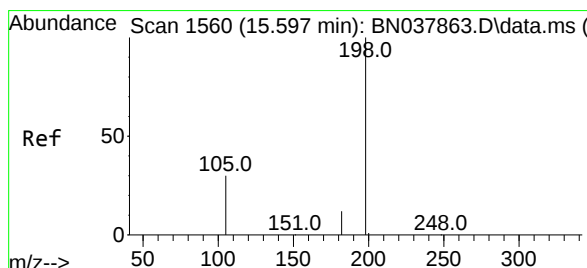
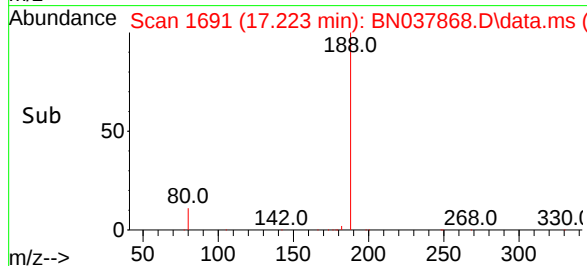
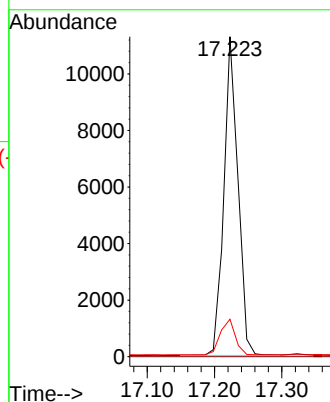
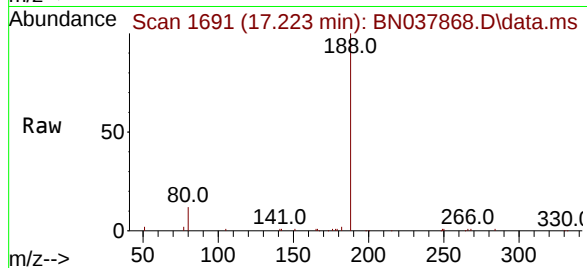
Tgt Ion:188 Resp: 16279

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.418 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

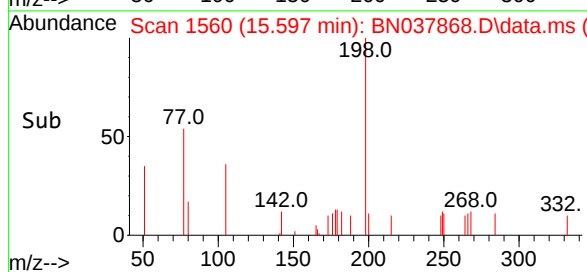
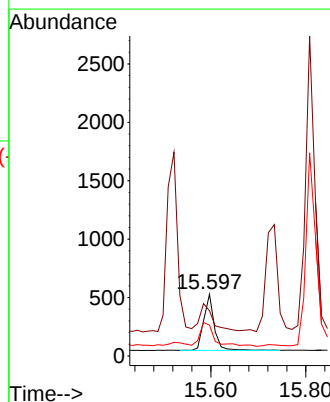
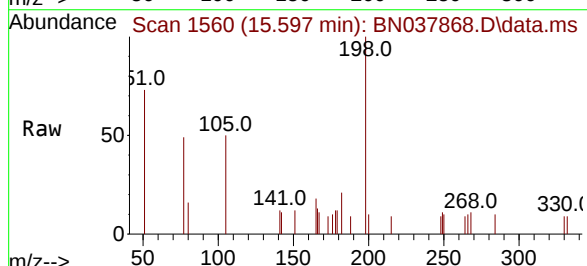
Tgt Ion:198 Resp: 737

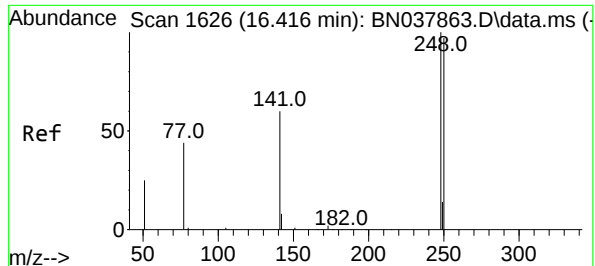
Ion Ratio Lower Upper

198 100

51 73.3 59.1 88.7

105 49.9 41.3 61.9

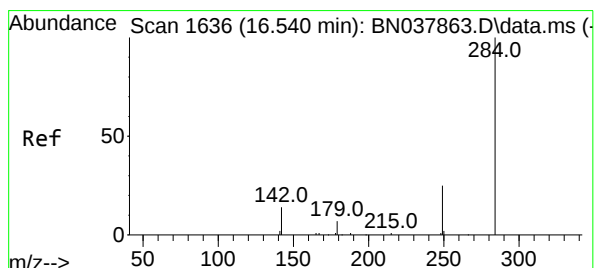
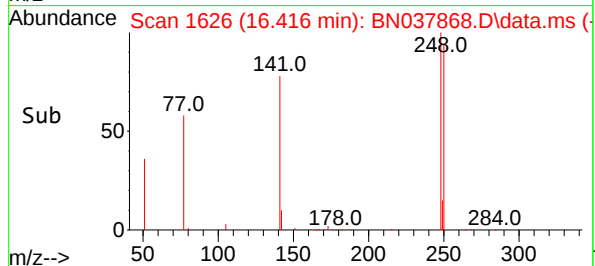
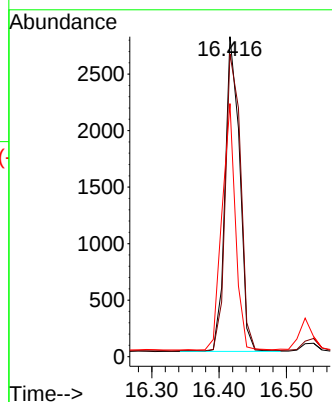
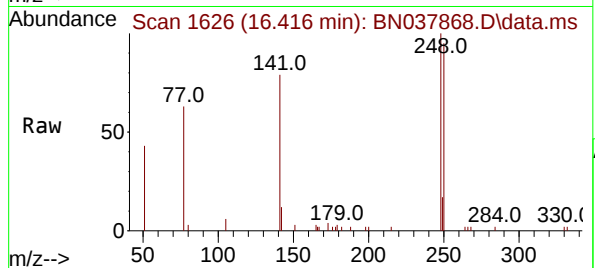




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

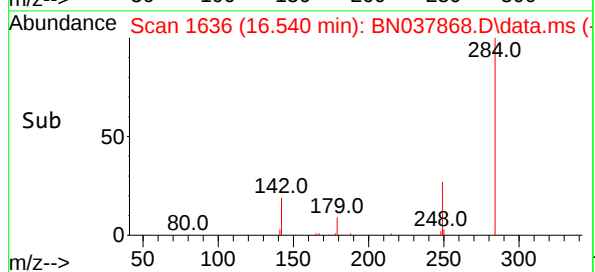
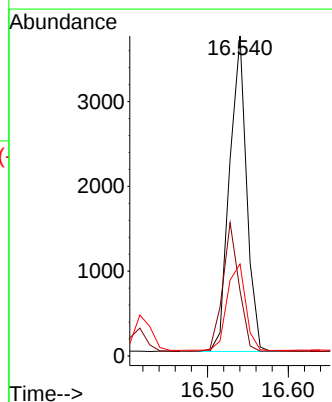
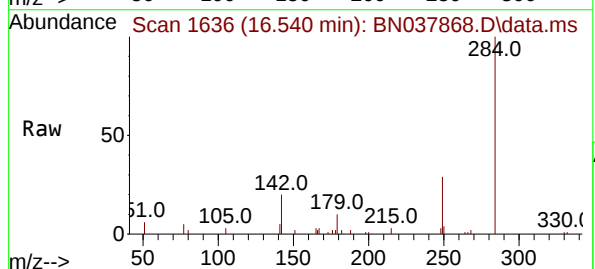
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

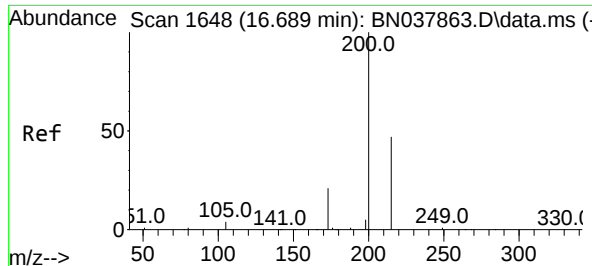
Tgt Ion:248 Resp: 4157
Ion Ratio Lower Upper
248 100
250 94.6 77.6 116.4
141 79.1 48.8 73.2#



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:284 Resp: 5455
Ion Ratio Lower Upper
284 100
142 38.9 30.9 46.3
249 30.0 23.9 35.9





#23

Atrazine

Concen: 0.396 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

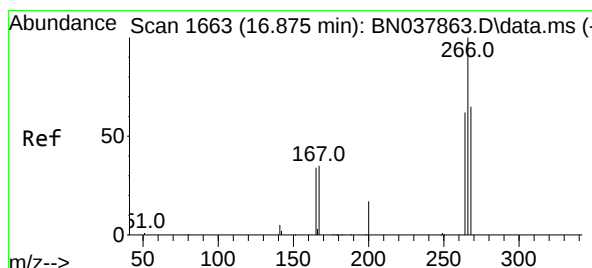
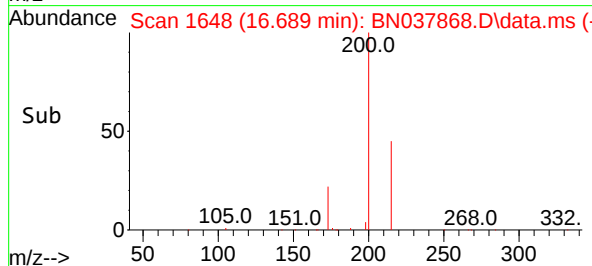
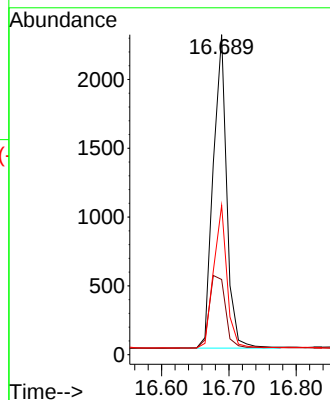
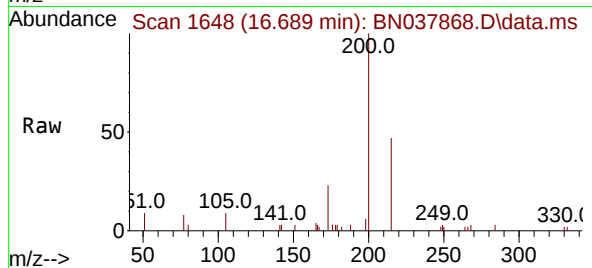
Tgt Ion:200 Resp: 3196

Ion Ratio Lower Upper

200 100

173 23.5 18.3 27.5

215 46.6 38.6 58.0



#24

Pentachlorophenol

Concen: 0.316 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

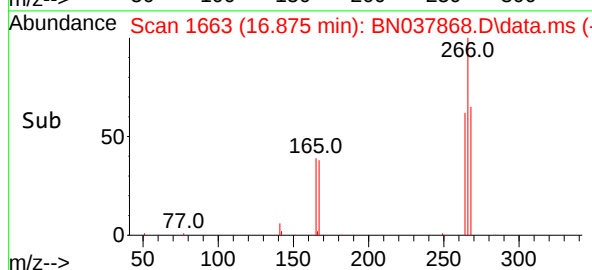
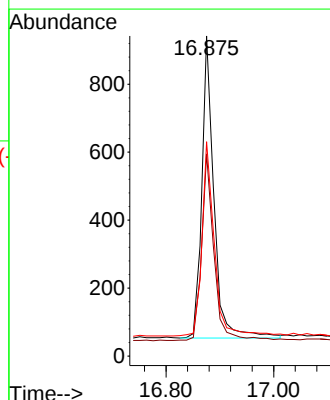
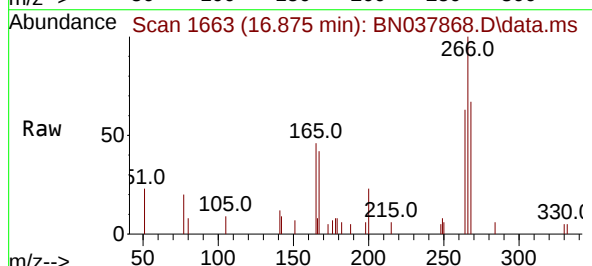
Tgt Ion:266 Resp: 1396

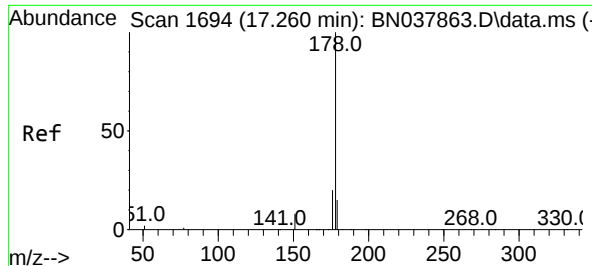
Ion Ratio Lower Upper

266 100

264 63.8 50.9 76.3

268 66.0 54.3 81.5





#25

Phenanthrene

Concen: 0.411 ng

RT: 17.260 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

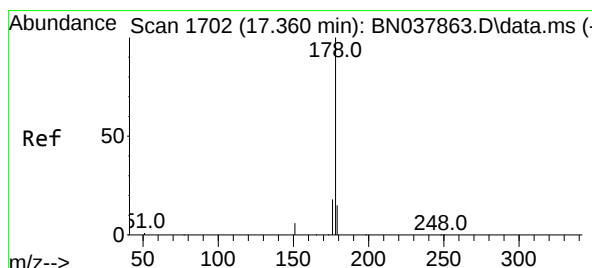
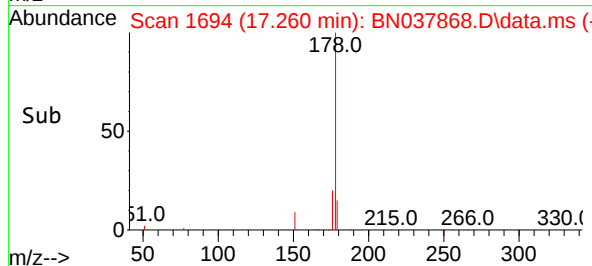
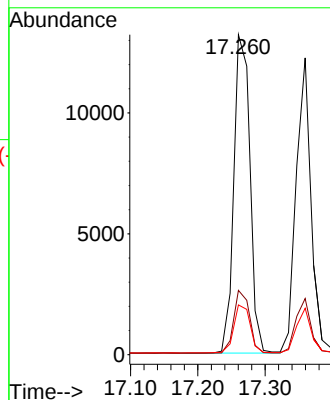
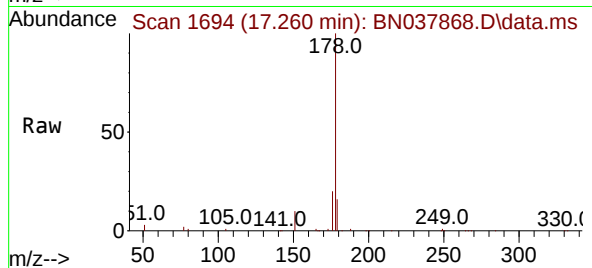
Tgt Ion:178 Resp: 22020

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.408 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

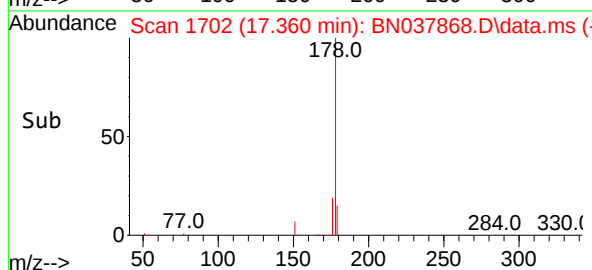
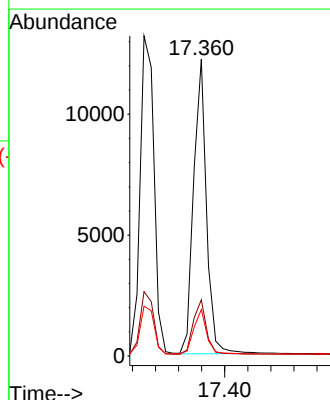
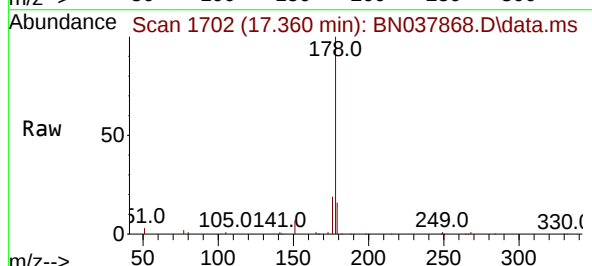
Tgt Ion:178 Resp: 18967

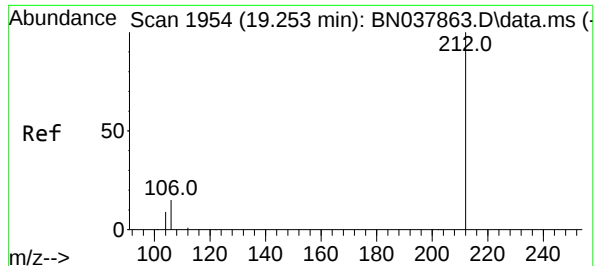
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

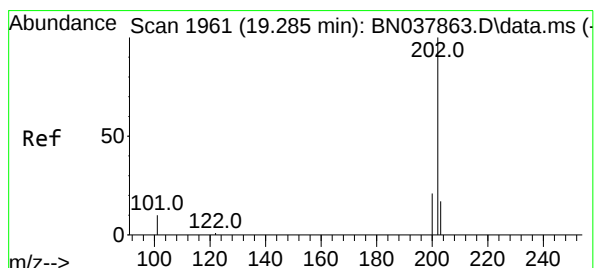
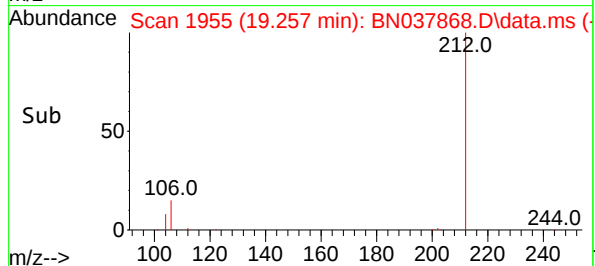
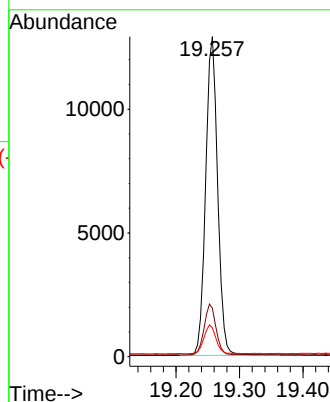
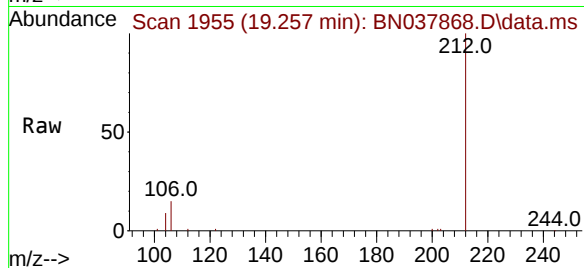
Tgt Ion:212 Resp: 16910

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

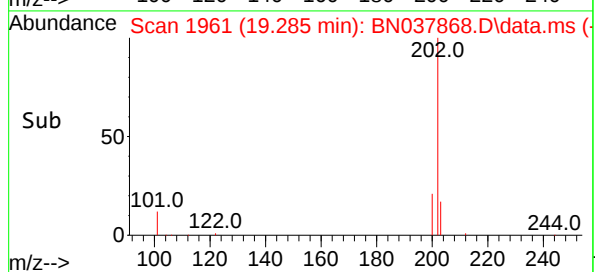
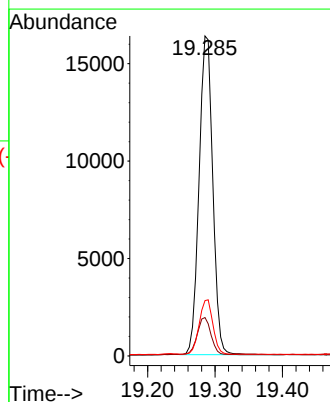
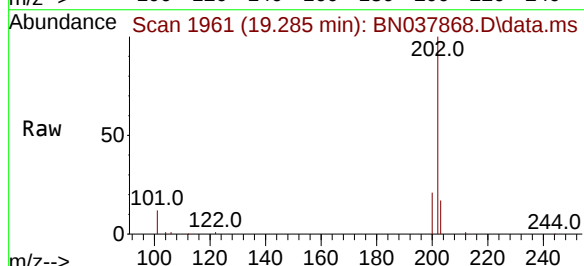
Tgt Ion:202 Resp: 23044

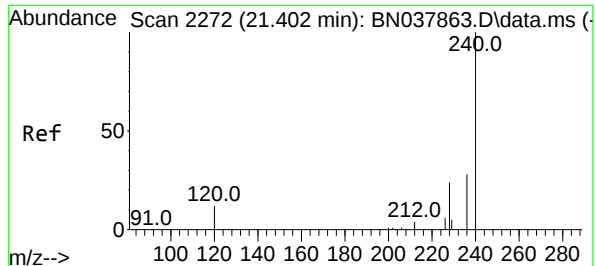
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

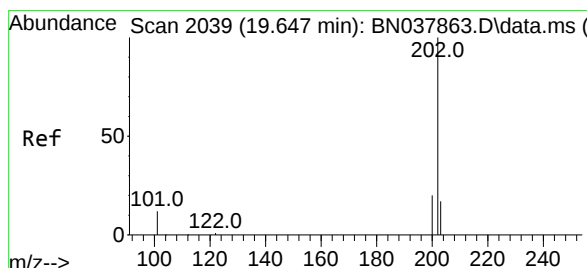
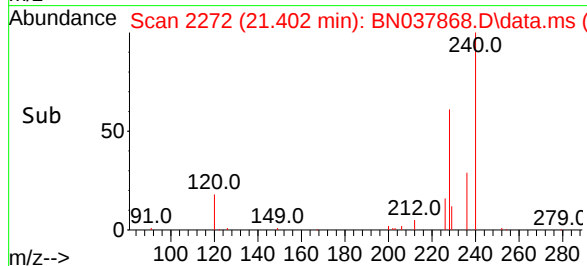
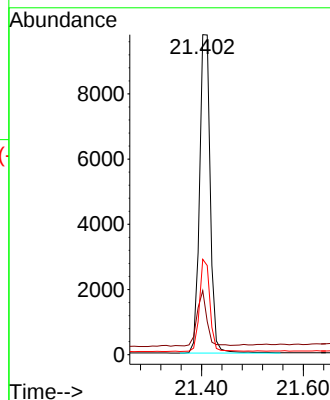
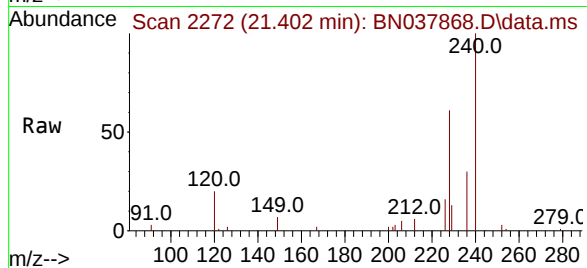
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 20.0 11.4 17.2#

236 29.8 23.0 34.6



#30

Pyrene

Concen: 0.402 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

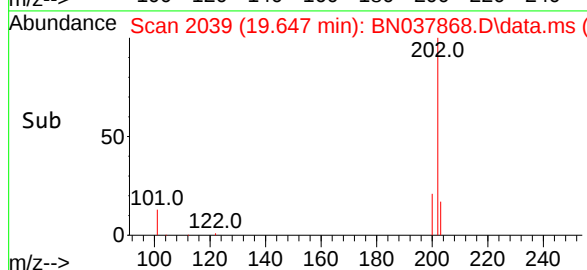
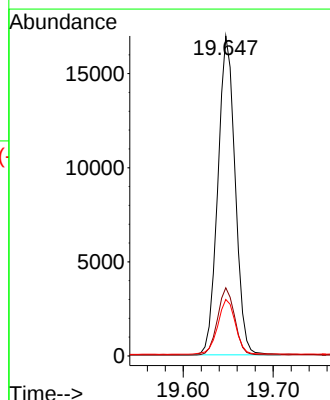
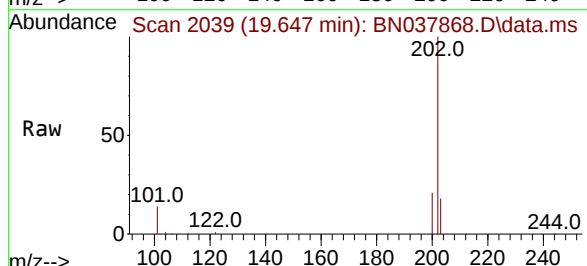
Tgt Ion:202 Resp: 22563

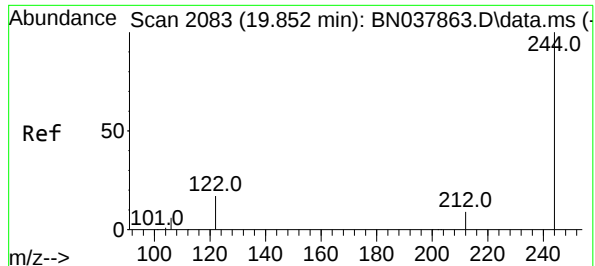
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

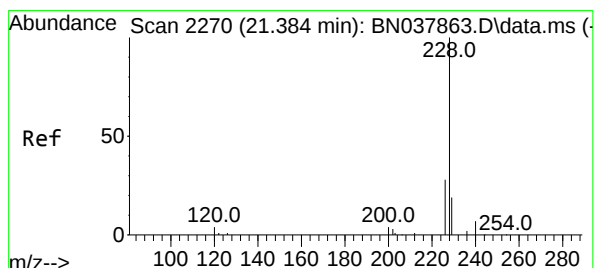
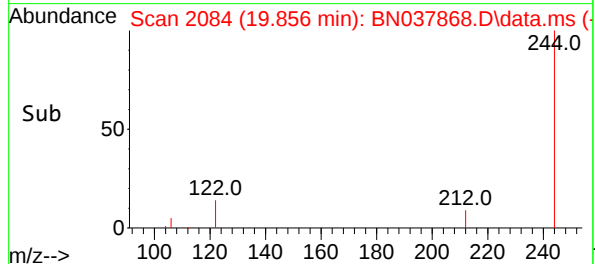
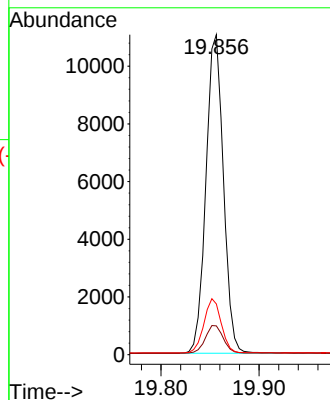
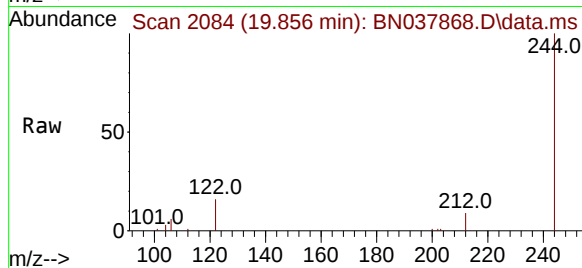




#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

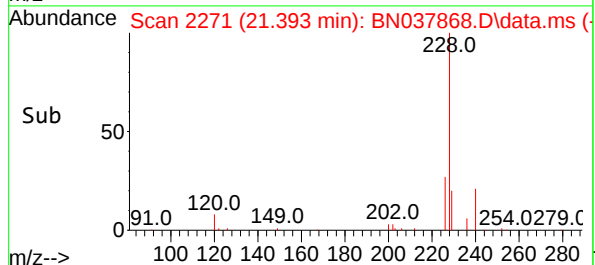
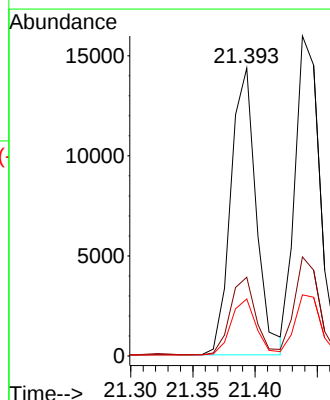
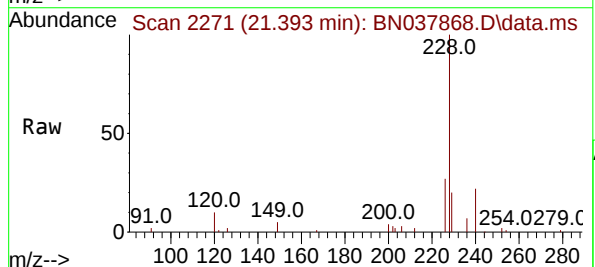
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

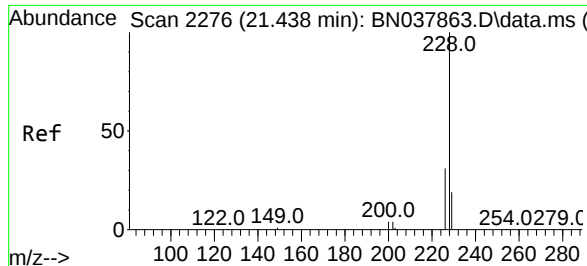
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	15.9	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.6	33.8
229	19.8	15.6	23.4





#33

Chrysene

Concen: 0.414 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

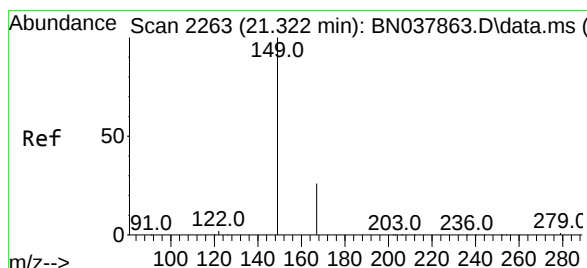
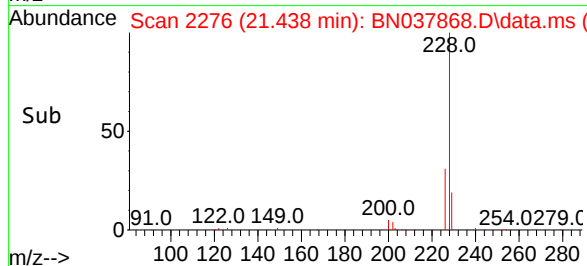
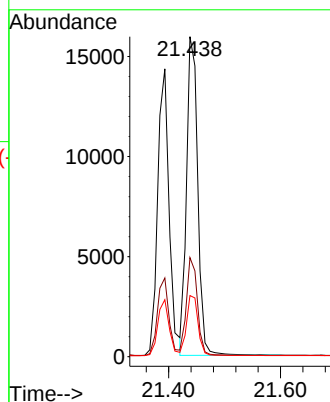
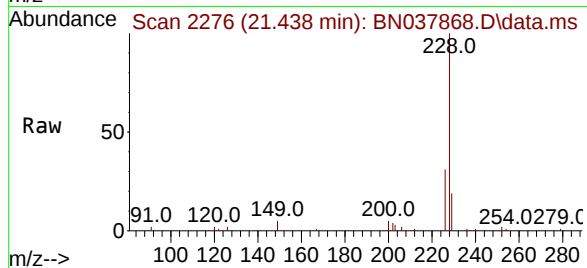
Tgt Ion:228 Resp: 22204

Ion Ratio Lower Upper

228 100

226 31.0 24.6 37.0

229 19.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.404 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

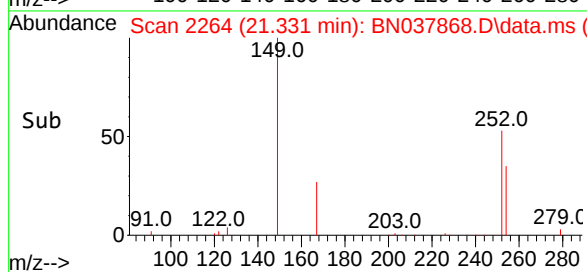
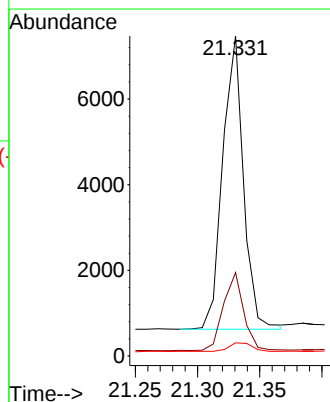
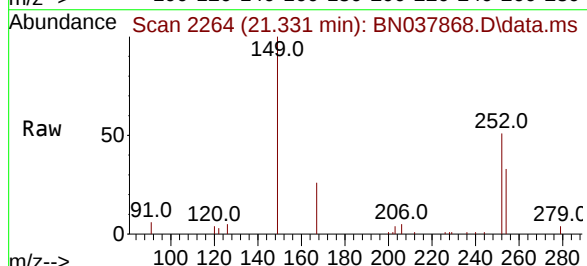
Tgt Ion:149 Resp: 7939

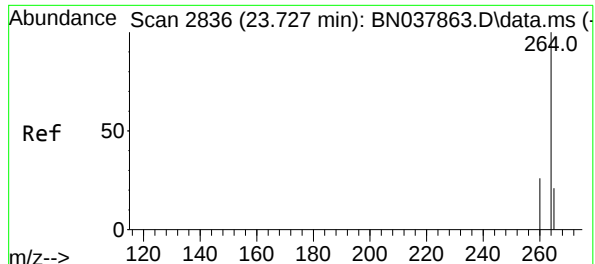
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

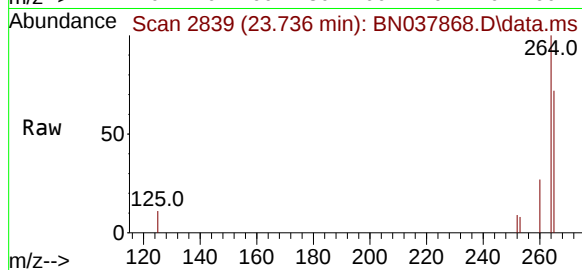
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



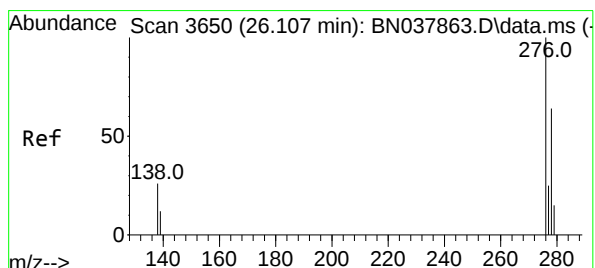
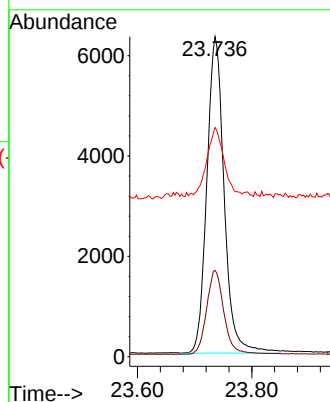
Tgt Ion:264 Resp: 13265

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 71.6 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

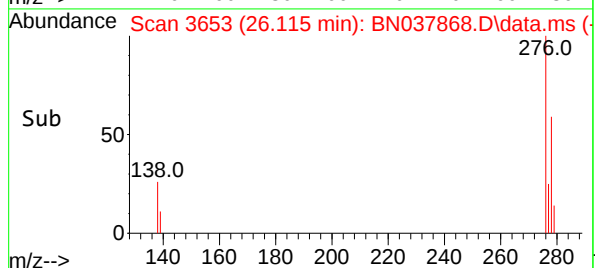
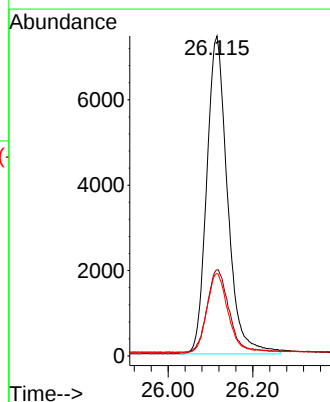
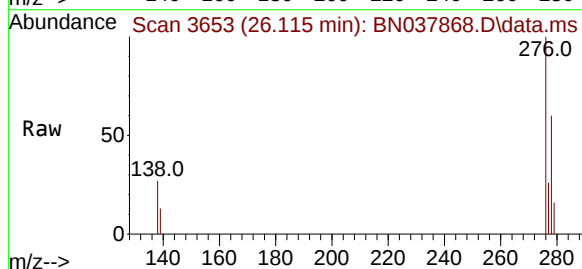
Tgt Ion:276 Resp: 25340

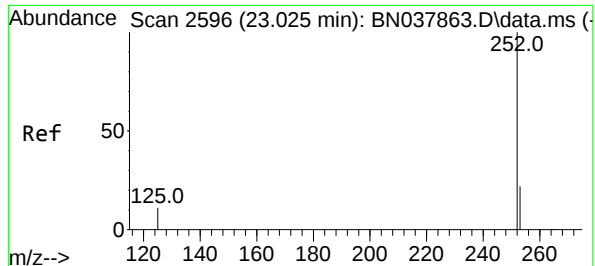
Ion Ratio Lower Upper

276 100

138 27.5 21.4 32.0

277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

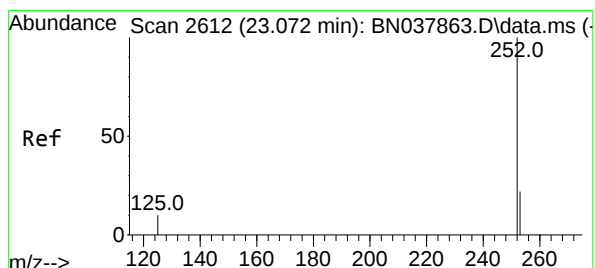
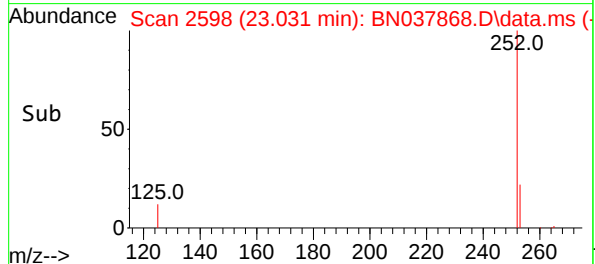
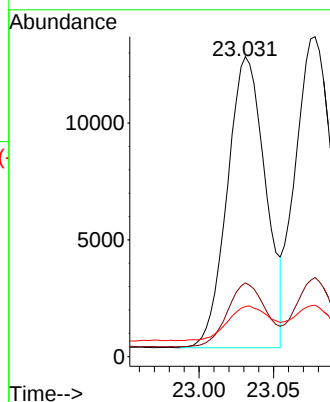
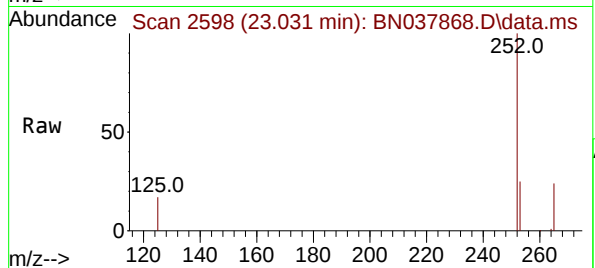
Tgt Ion:252 Resp: 22193

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 16.8 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.415 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

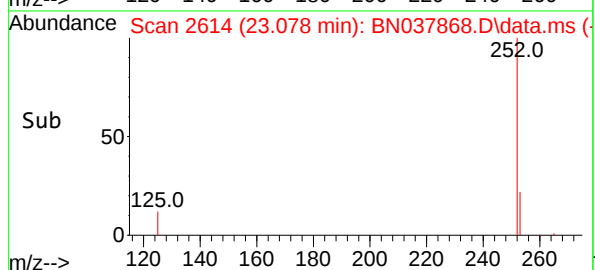
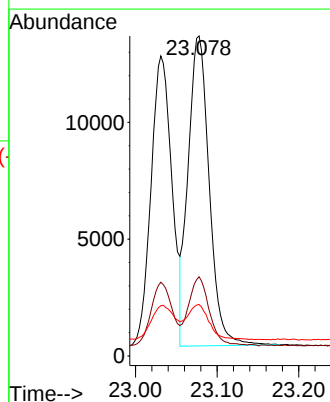
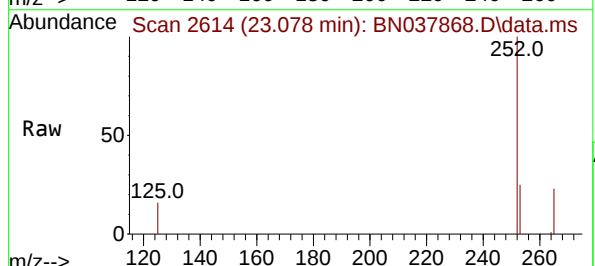
Tgt Ion:252 Resp: 23886

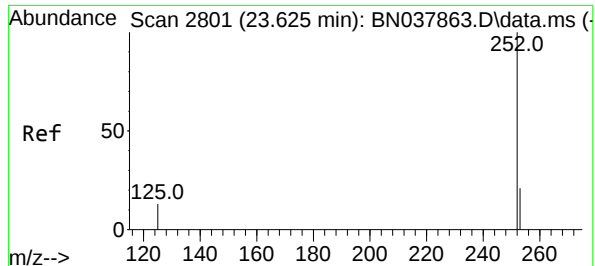
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 23.633 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

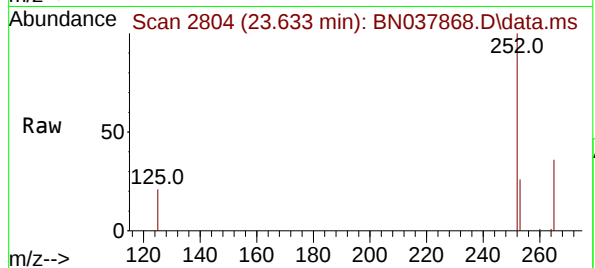
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



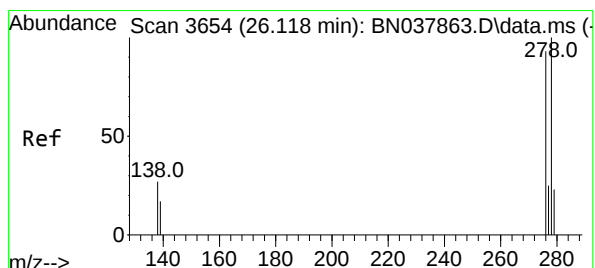
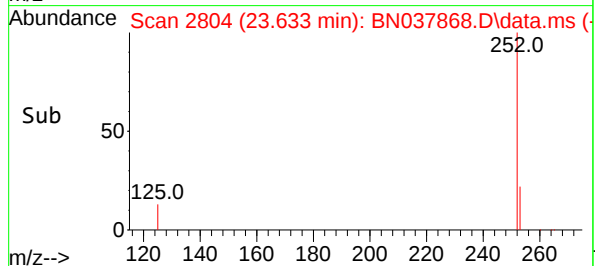
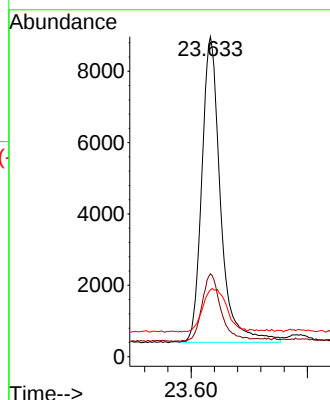
Tgt Ion:252 Resp: 19091

Ion Ratio Lower Upper

252 100

253 25.9 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 26.130 min Scan# 3658

Delta R.T. 0.012 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

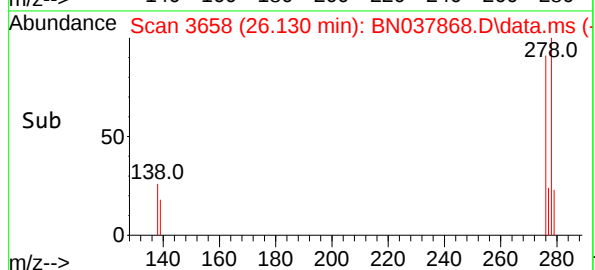
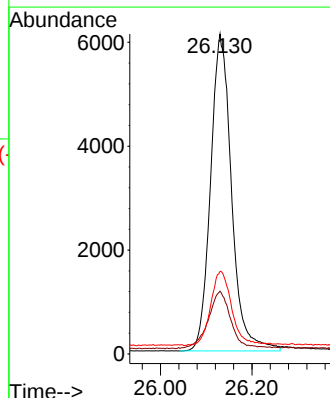
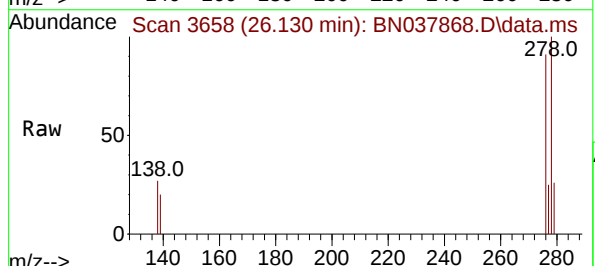
Tgt Ion:278 Resp: 19441

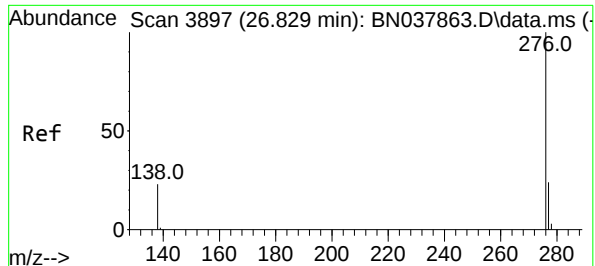
Ion Ratio Lower Upper

278 100

139 19.6 15.4 23.2

279 25.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037868.D

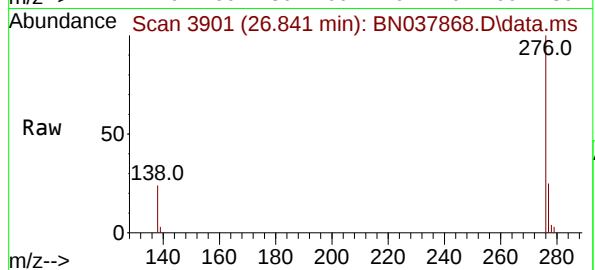
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



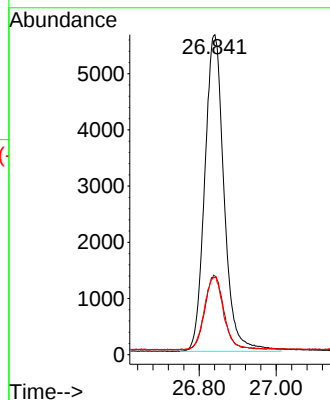
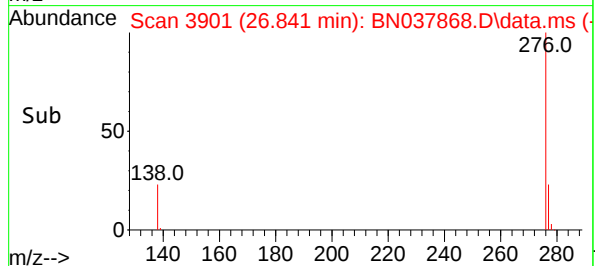
Tgt Ion:276 Resp: 19570

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	1,4-Dioxane	0.406	0.484	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.540	0.551	-2.0	106	0.00
4 S	2-Fluorophenol	0.913	0.898	1.6	105	0.00
5 S	Phenol-d6	1.199	1.144	4.6	102	0.00
6	bis(2-Chloroethyl)ether	1.113	1.225	-10.1	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.305	0.337	-10.5	119	0.00
9	Naphthalene	1.102	1.138	-3.3	111	0.01
10	Hexachlorobutadiene	0.188	0.201	-6.9	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.587	-5.6	121	0.00
12	2-Methylnaphthalene	0.720	0.675	6.2	103	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.152	0.131	13.8	99	0.00
15 S	2-Fluorobiphenyl	1.638	1.984	-21.1	130	0.01
16	Acenaphthylene	1.816	1.984	-9.3	122	0.00
17	Acenaphthene	1.294	1.312	-1.4	112	0.00
18	Fluorene	1.565	1.581	-1.0	111	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	106	0.00
21	4-Bromophenyl-phenylether	0.261	0.255	2.3	107	0.00
22	Hexachlorobenzene	0.316	0.335	-6.0	112	0.00
23	Atrazine	0.199	0.196	1.5	117	0.00
24	Pentachlorophenol	0.108	0.086	20.4	95	0.00
25	Phenanthrene	1.316	1.353	-2.8	112	0.00
26	Anthracene	1.142	1.165	-2.0	116	0.00
27 SURR	Fluoranthene-d10	1.006	1.039	-3.3	120	0.00
28	Fluoranthene	1.450	1.416	2.3	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
30	Pyrene	1.579	1.588	-0.6	109	0.00
31 S	Terphenyl-d14	0.797	0.961	-20.6	133	0.00
32	Benzo(a)anthracene	1.398	1.436	-2.7	116	0.00
33	Chrysene	1.512	1.563	-3.4	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.559	-1.1	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.910	-4.5	121	0.00
37	Benzo(b)fluoranthene	1.725	1.673	3.0	108	0.00
38	Benzo(k)fluoranthene	1.736	1.801	-3.7	119	0.00
39 C	Benzo(a)pyrene	1.364	1.439	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	1.427	1.466	-2.7	119	0.01
41	Benzo(g,h,i)perylene	1.499	1.475	1.6	111	0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2	1,4-Dioxane	0.400	0.477	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.400	0.408	-2.0	106	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	105	0.00
5 S	Phenol-d6	0.400	0.382	4.5	102	0.00
6	bis(2-Chloroethyl)ether	0.400	0.440	-10.0	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.442	-10.5	119	0.00
9	Naphthalene	0.400	0.413	-3.2	111	0.01
10	Hexachlorobutadiene	0.400	0.428	-7.0	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.423	-5.7	121	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	103	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.346	13.5	99	0.00
15 S	2-Fluorobiphenyl	0.400	0.485	-21.2	130	0.01
16	Acenaphthylene	0.400	0.437	-9.2	122	0.00
17	Acenaphthene	0.400	0.406	-1.5	112	0.00
18	Fluorene	0.400	0.404	-1.0	111	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.418	-4.5	106	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	107	0.00
22	Hexachlorobenzene	0.400	0.424	-6.0	112	0.00
23	Atrazine	0.400	0.396	1.0	117	0.00
24	Pentachlorophenol	0.400	0.316	21.0	95	0.00
25	Phenanthrene	0.400	0.411	-2.7	112	0.00
26	Anthracene	0.400	0.408	-2.0	116	0.00
27 SURR	Fluoranthene-d10	0.400	0.413	-3.2	120	0.00
28	Fluoranthene	0.400	0.391	2.3	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	105	0.00
30	Pyrene	0.400	0.402	-0.5	109	0.00
31 S	Terphenyl-d14	0.400	0.482	-20.5	133	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	116	0.00
33	Chrysene	0.400	0.414	-3.5	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.404	-1.0	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	121	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.415	-3.7	119	0.00
39 C	Benzo(a)pyrene	0.400	0.422	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	119	0.01
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	111	0.01

(#) = 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: TETR06
 Lab Code: ACE SDG No.: Q3371
 Instrument ID: BNA_N Calibration Date/Time: 10/20/2025 17:20
 Lab File ID: BN038101.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.539		-3.1	20.0
Fluoranthene-d10	1.006	0.870		-13.5	20.0
2-Fluorophenol	0.913	0.879		-3.7	20.0
Phenol-d6	1.199	1.019		-15.0	20.0
Nitrobenzene-d5	0.305	0.277		-9.2	20.0
2-Fluorobiphenyl	1.638	1.602		-2.2	20.0
2,4,6-Tribromophenol	0.152	0.135		-11.2	20.0
Terphenyl-d14	0.797	0.829		4.0	20.0
1,4-Dioxane	0.406	0.472		16.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
 Data File : BN038101.D
 Acq On : 20 Oct 2025 17:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 20 18:12:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

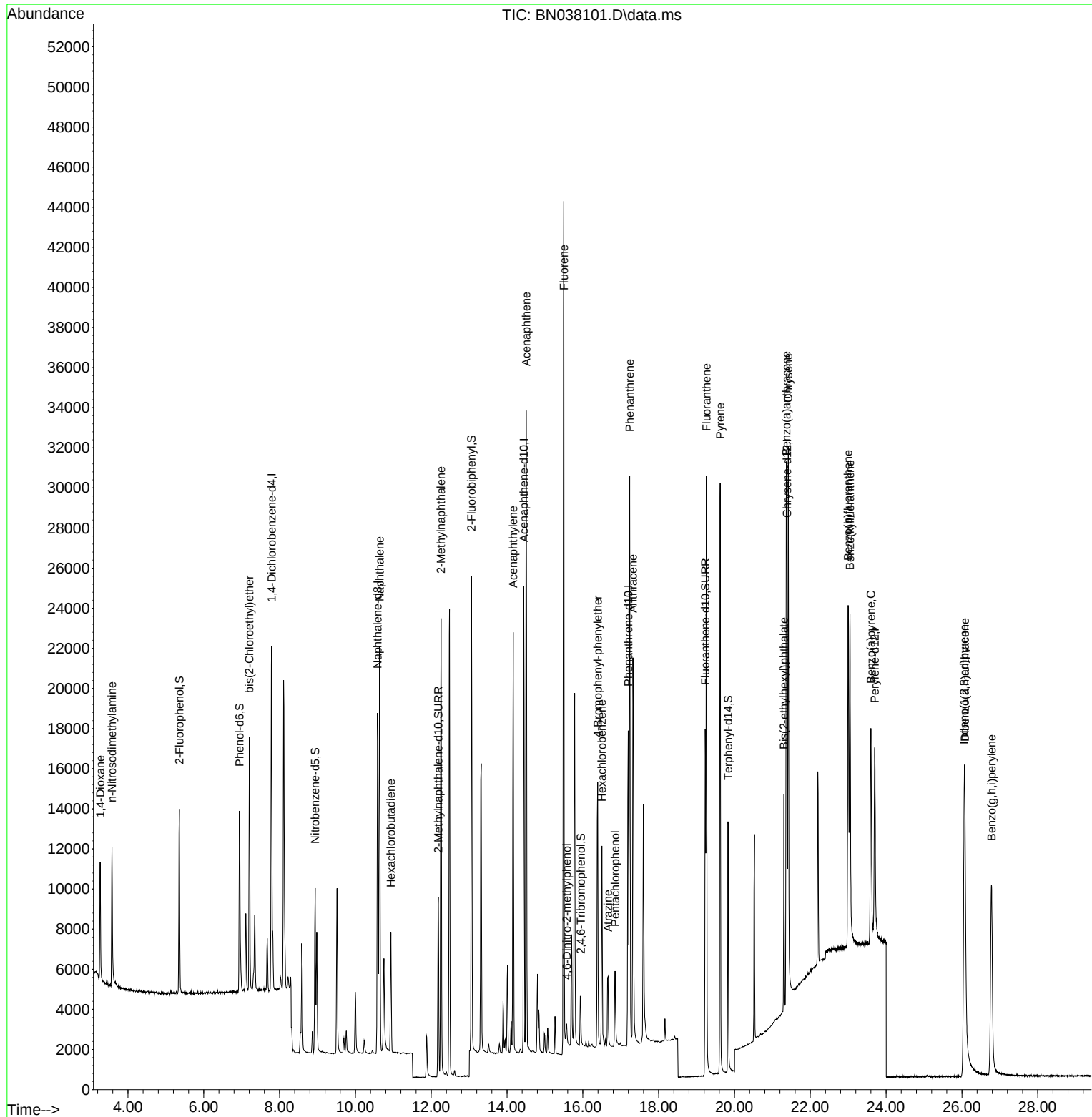
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8494	0.400	ng	-0.04
7) Naphthalene-d8	10.584	136	23762	0.400	ng	#-0.04
13) Acenaphthene-d10	14.441	164	12771	0.400	ng	-0.03
19) Phenanthrene-d10	17.198	188	22871	0.400	ng	-0.02
29) Chrysene-d12	21.384	240	16306	0.400	ng	-0.02
35) Perylene-d12	23.701	264	14546	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	7463	0.385	ng	-0.03
5) Phenol-d6	6.944	99	8654	0.340	ng	-0.03
8) Nitrobenzene-d5	8.939	82	6577	0.363	ng	-0.03
11) 2-Methylnaphthalene-d10	12.187	152	12817	0.388	ng	-0.03
14) 2,4,6-Tribromophenol	15.945	330	1720	0.355	ng	-0.02
15) 2-Fluorobiphenyl	13.062	172	20463	0.391	ng	-0.03
27) Fluoranthene-d10	19.229	212	19887	0.346	ng	-0.02
31) Terphenyl-d14	19.833	244	13514	0.416	ng	-0.02
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.268	88	4006	0.465	ng	96
3) n-Nitrosodimethylamine	3.579	42	4376	0.381	ng	# 92
6) bis(2-Chloroethyl)ether	7.204	93	9209	0.390	ng	100
9) Naphthalene	10.637	128	25855	0.395	ng	99
10) Hexachlorobutadiene	10.936	225	4589	0.411	ng	# 99
12) 2-Methylnaphthalene	12.258	142	16501	0.386	ng	99
16) Acenaphthylene	14.163	152	22614	0.390	ng	100
17) Acenaphthene	14.505	154	15439	0.374	ng	99
18) Fluorene	15.499	166	19109	0.382	ng	99
20) 4,6-Dinitro-2-methylph...	15.572	198	868	0.364	ng	# 48
21) 4-Bromophenyl-phenylether	16.391	248	5974	0.401	ng	# 92
22) Hexachlorobenzene	16.503	284	7441	0.412	ng	100
23) Atrazine	16.664	200	3566	0.314	ng	98
24) Pentachlorophenol	16.851	266	2249	0.363	ng	96
25) Phenanthrene	17.235	178	28419	0.378	ng	99
26) Anthracene	17.322	178	23635	0.362	ng	100
28) Fluoranthene	19.262	202	28434	0.343	ng	100
30) Pyrene	19.624	202	27722	0.431	ng	100
32) Benzo(a)anthracene	21.366	228	20668	0.363	ng	100
33) Chrysene	21.420	228	25184	0.409	ng	99
34) Bis(2-ethylhexyl)phtha...	21.304	149	9030	0.401	ng	98
36) Indeno(1,2,3-cd)pyrene	26.060	276	25177	0.379	ng	98
37) Benzo(b)fluoranthene	22.999	252	23093	0.368	ng	96
38) Benzo(k)fluoranthene	23.046	252	23964	0.380	ng	97
39) Benzo(a)pyrene	23.598	252	18974	0.382	ng	94
40) Dibenzo(a,h)anthracene	26.078	278	18452	0.356	ng	97
41) Benzo(g,h,i)perylene	26.779	276	22890	0.420	ng	99

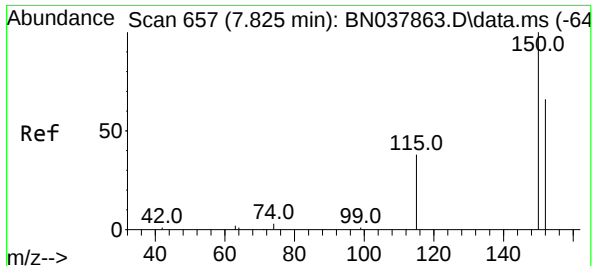
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038101.D
Acq On : 20 Oct 2025 17:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 20 18:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

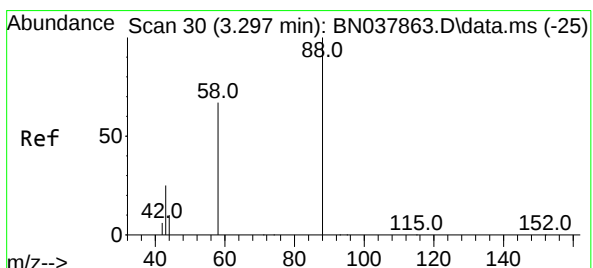
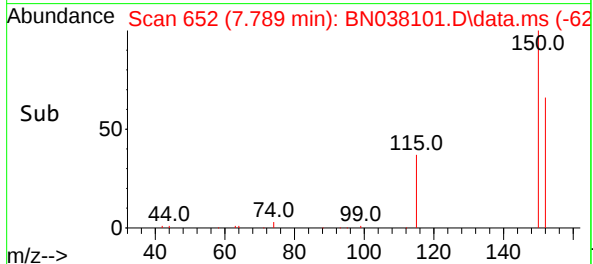
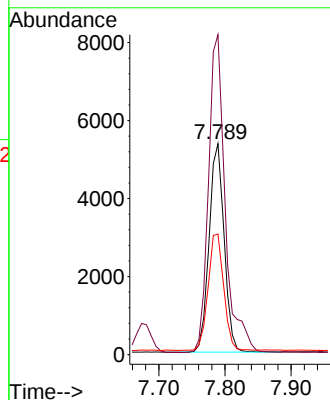
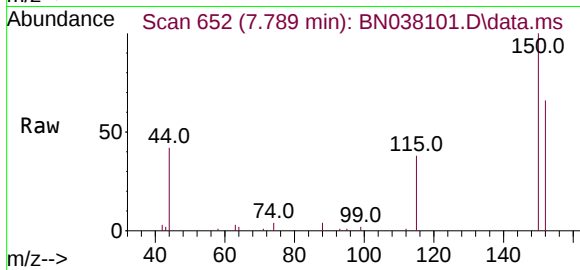




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.036 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

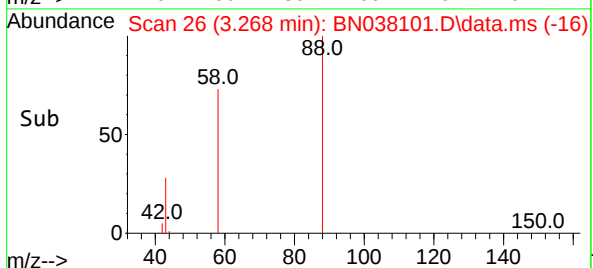
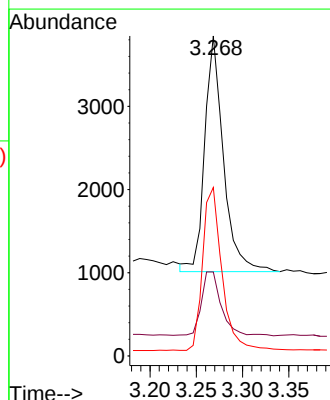
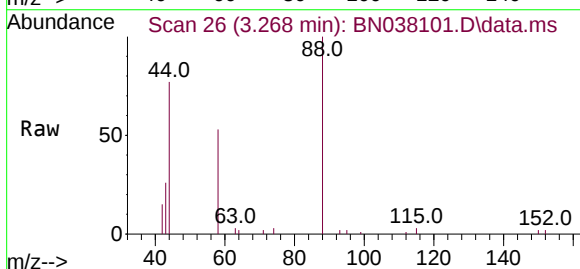
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	152	Resp:	8494
Ion	Ratio	Lower	Upper
152	100		
150	151.7	121.0	181.4
115	57.2	47.4	71.0

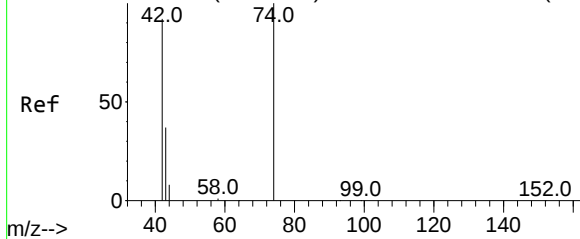


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.029 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	88	Resp:	4006
Ion	Ratio	Lower	Upper
88	100		
43	28.7	26.6	39.8
58	71.8	58.9	88.3



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.381 ng

RT: 3.579 min Scan# 69

Delta R.T. -0.022 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

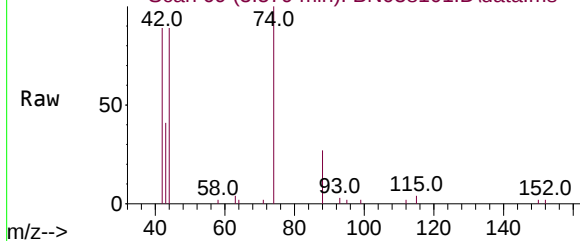
ClientSampleId :

SSTDCCC0.4

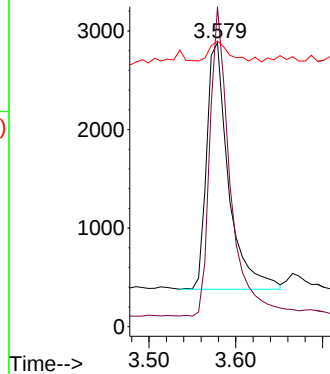
Tgt Ion: 42 Resp: 4376

Ion	Ratio	Lower	Upper
42	100		
74	117.6	93.4	140.0
44	7.6	22.2	33.4

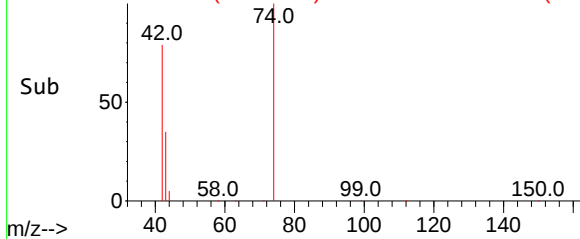
Abundance Scan 69 (3.579 min): BN038101.D\data.ms



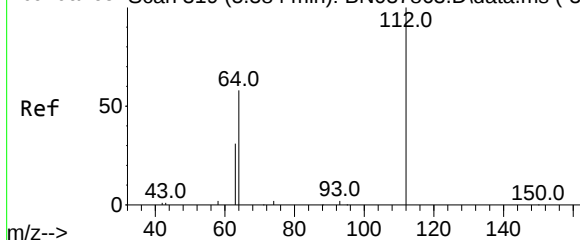
Abundance



Abundance Scan 69 (3.579 min): BN038101.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.385 ng

RT: 5.356 min Scan# 315

Delta R.T. -0.029 min

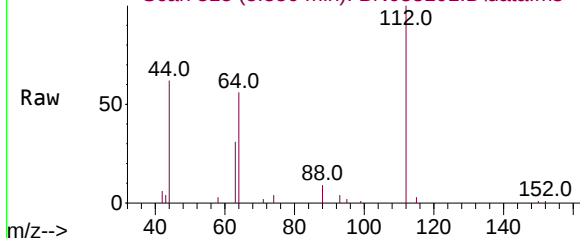
Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

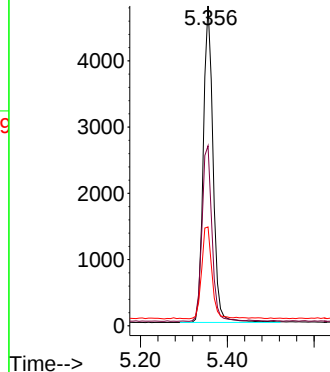
Tgt Ion: 112 Resp: 7463

Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.6	66.8
63	30.1	24.9	37.3

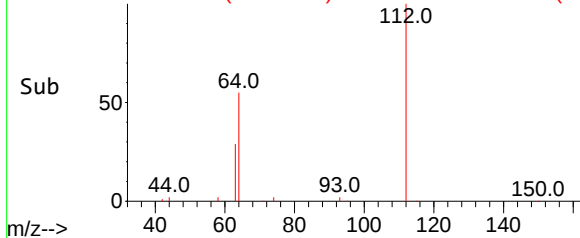
Abundance Scan 315 (5.356 min): BN038101.D\data.ms

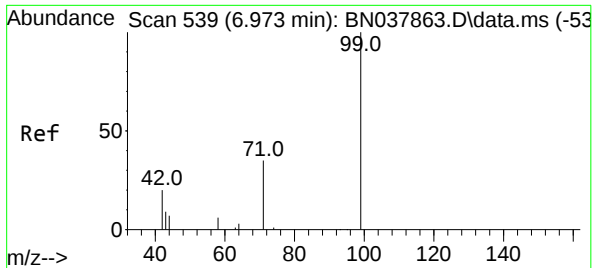


Abundance



Abundance Scan 315 (5.356 min): BN038101.D\data.ms (-29)

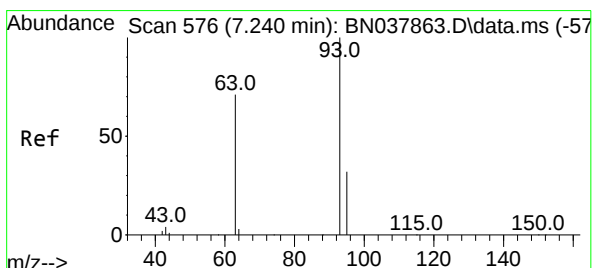
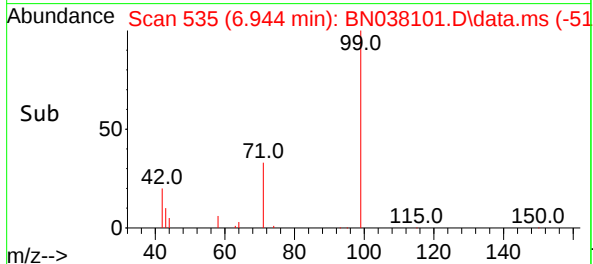
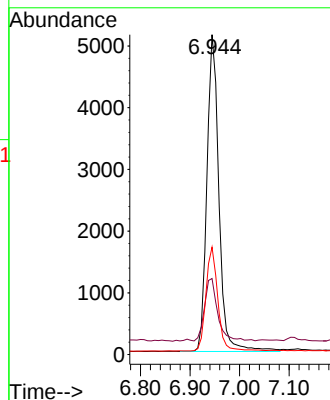
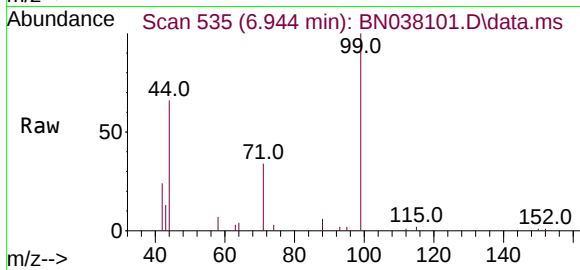




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.944 min Scan# 531
Delta R.T. -0.029 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

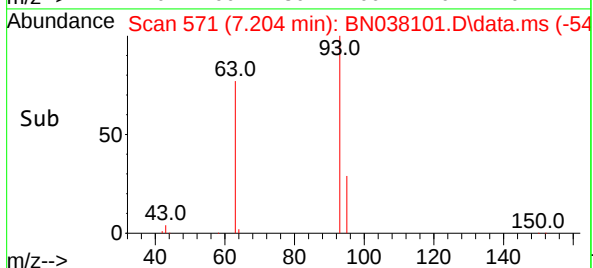
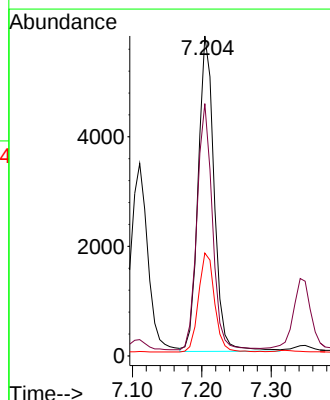
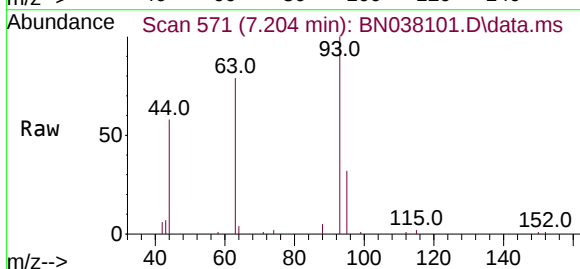
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

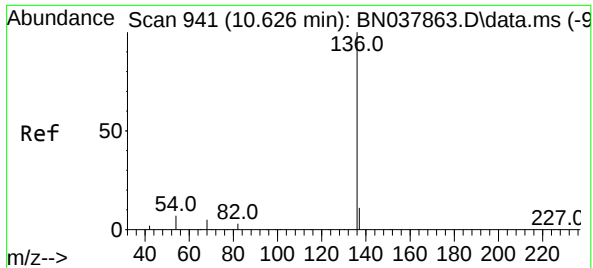
Tgt Ion:	99	Resp:	8654
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	32.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 7.204 min Scan# 571
Delta R.T. -0.036 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:	93	Resp:	9209
Ion	Ratio	Lower	Upper
93	100		
63	75.3	60.1	90.1
95	31.6	25.4	38.2

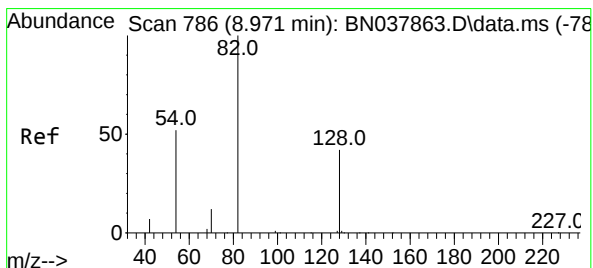
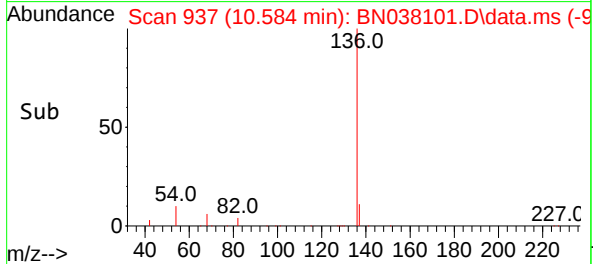
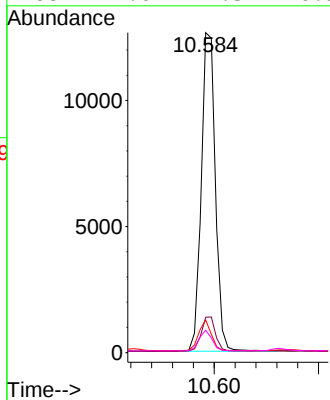
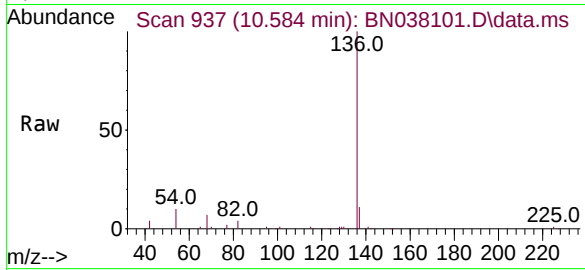




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 941
Delta R.T. -0.043 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

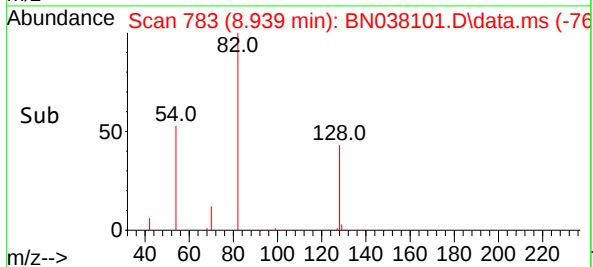
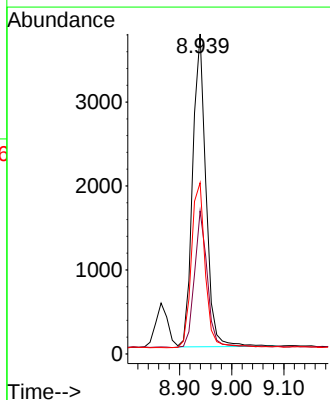
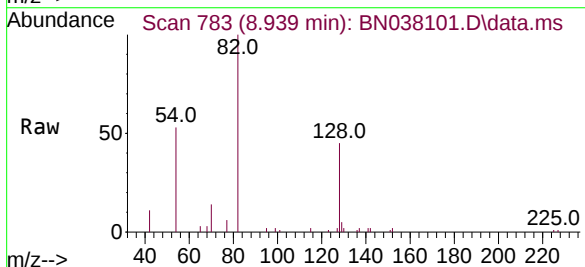
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

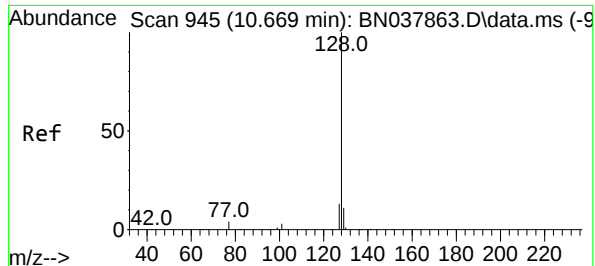
Tgt Ion:136	Resp:	23762
Ion Ratio	Lower	Upper
136	100	
137	11.1	9.0 13.4
54	10.2	5.8 8.8#
68	7.0	4.3 6.5#



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.939 min Scan# 783
Delta R.T. -0.032 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion: 82	Resp:	6577
Ion Ratio	Lower	Upper
82	100	
128	44.7	34.8 52.2
54	53.5	42.2 63.2





#9

Naphthalene

Concen: 0.395 ng

RT: 10.637 min Scan# 94

Delta R.T. -0.032 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

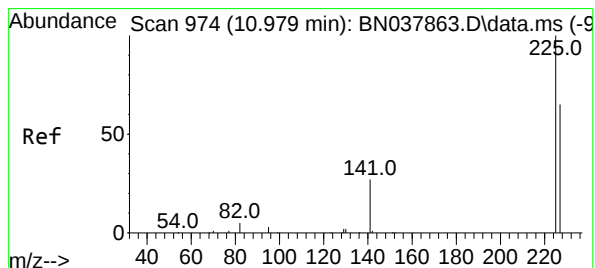
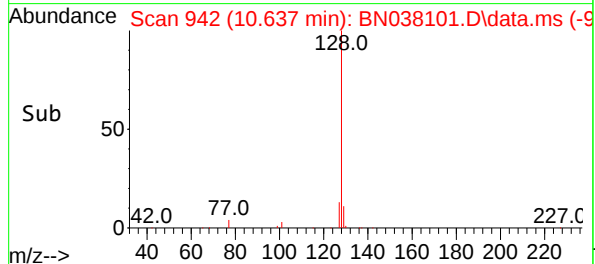
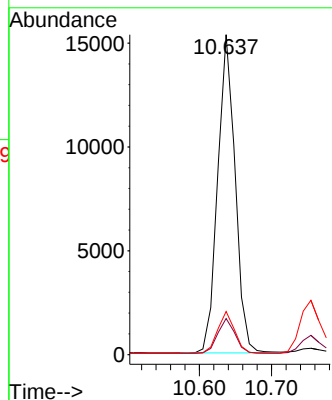
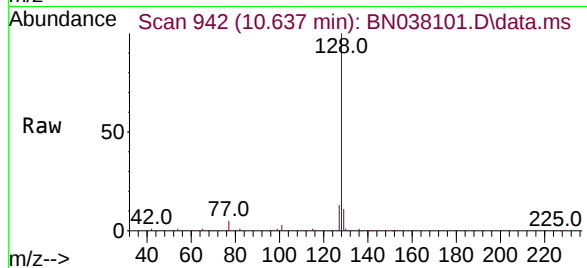
Tgt Ion:128 Resp: 25855

Ion Ratio Lower Upper

128 100

129 11.3 9.2 13.8

127 13.5 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.411 ng

RT: 10.936 min Scan# 970

Delta R.T. -0.043 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

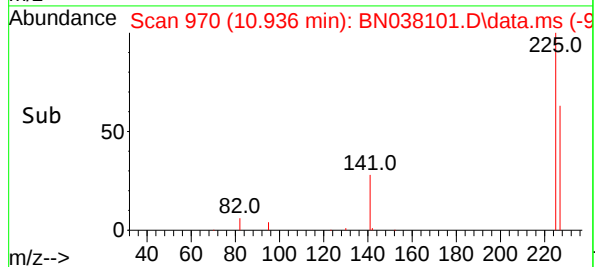
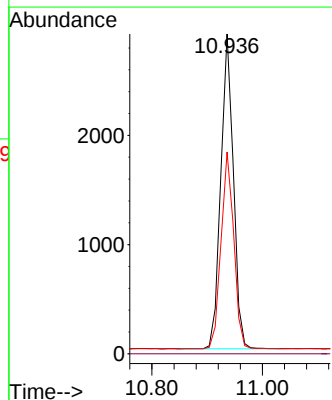
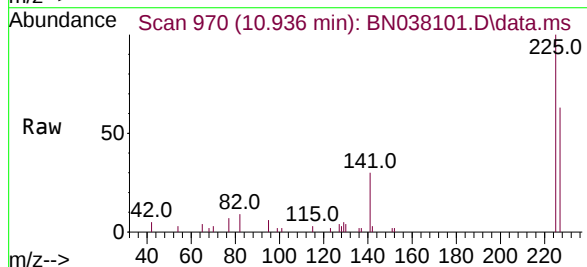
Tgt Ion:225 Resp: 4589

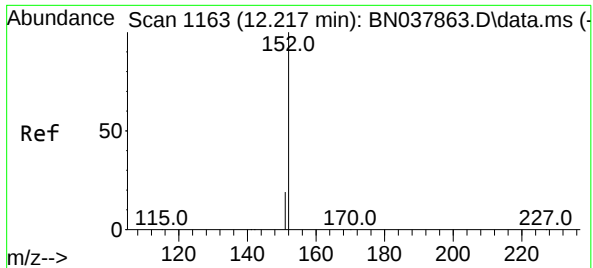
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.3 51.4 77.2

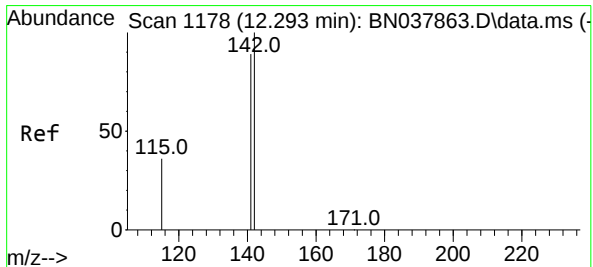
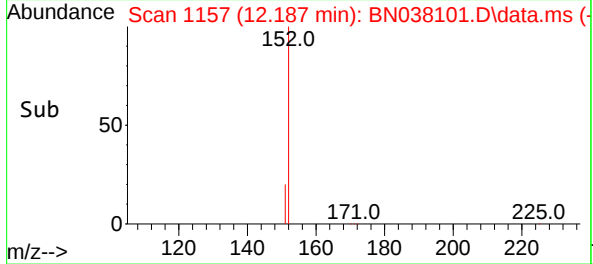
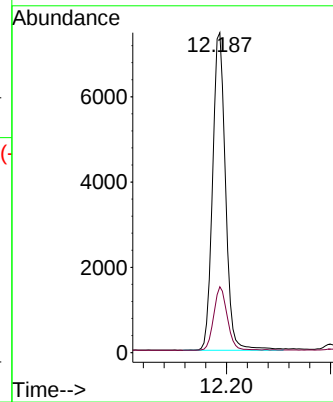
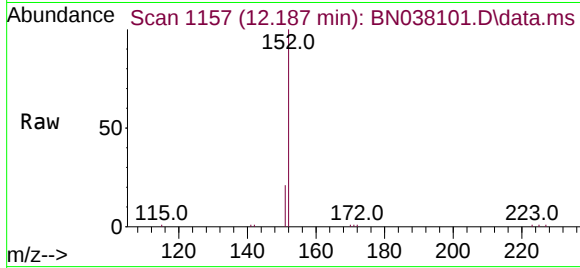




#11
2-Methylnaphthalene-d10
Concen: 0.388 ng
RT: 12.187 min Scan# 1163
Delta R.T. -0.030 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

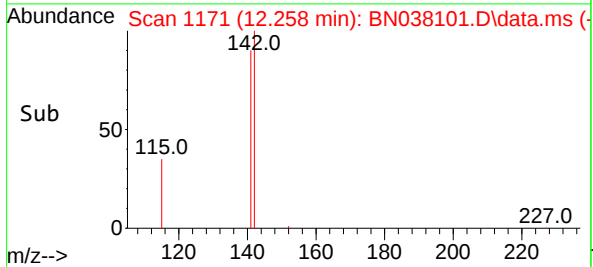
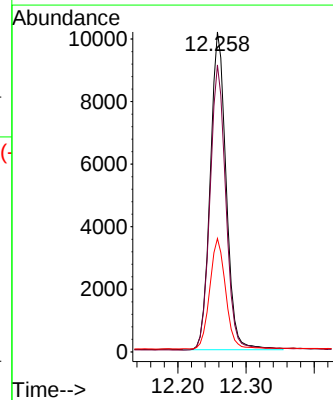
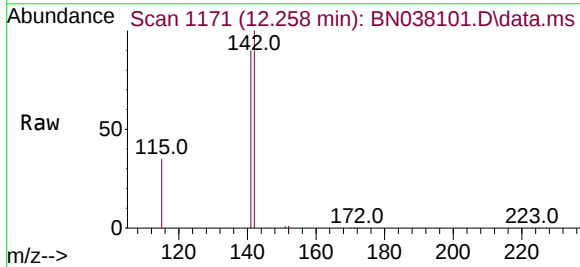
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

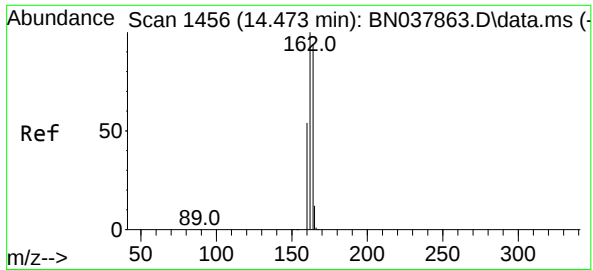
Tgt Ion:152 Resp: 12817
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.258 min Scan# 1171
Delta R.T. -0.035 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:142 Resp: 16501
Ion Ratio Lower Upper
142 100
141 89.7 71.2 106.8
115 35.4 29.7 44.5

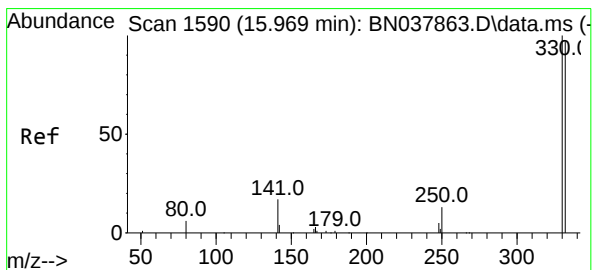
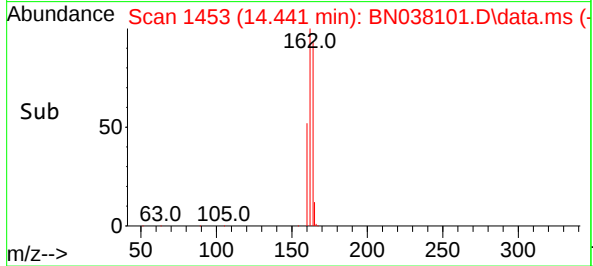
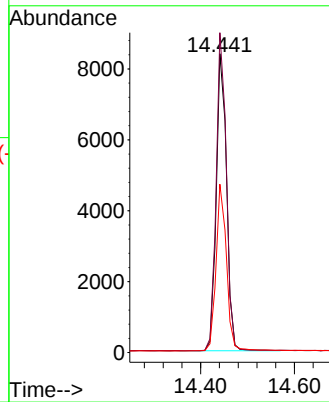
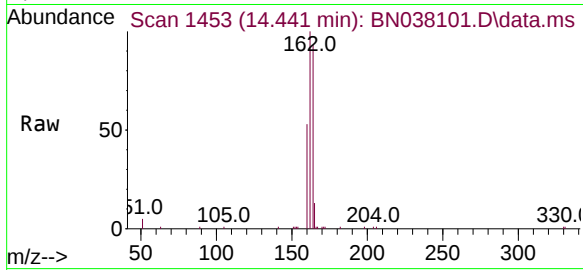




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.032 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

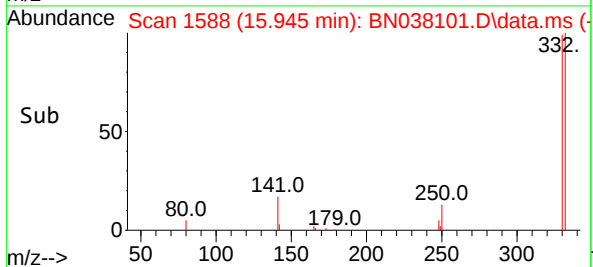
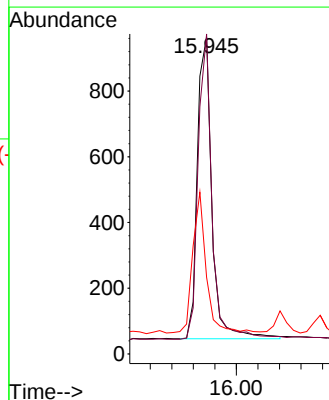
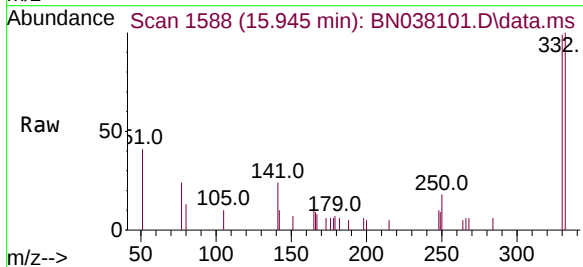
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

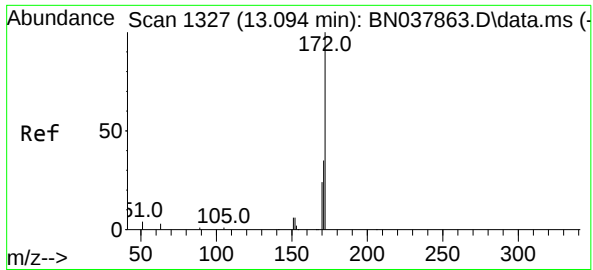
Tgt Ion:164 Resp: 12771
Ion Ratio Lower Upper
164 100
162 107.0 84.8 127.2
160 56.3 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.945 min Scan# 1588
Delta R.T. -0.024 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:330 Resp: 1720
Ion Ratio Lower Upper
330 100
332 95.9 77.2 115.8
141 43.3 37.2 55.8

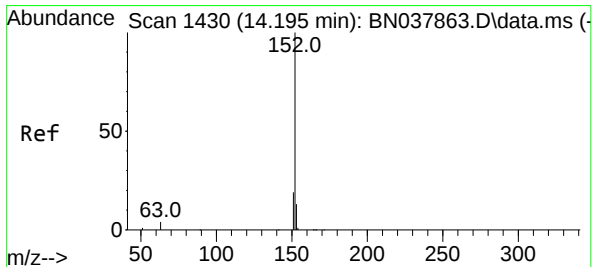
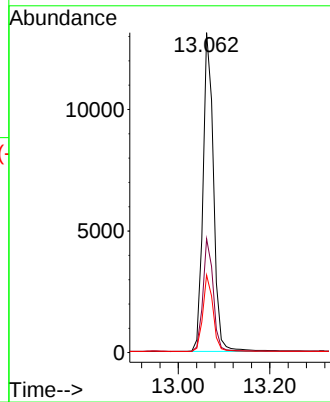
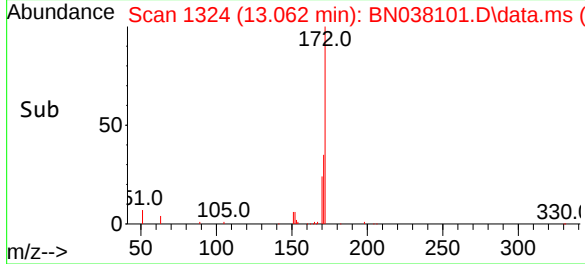
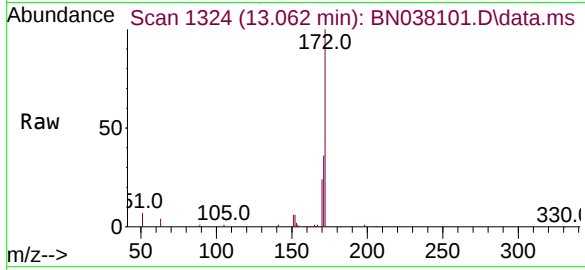




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 13.062 min Scan# 1327
Delta R.T. -0.032 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

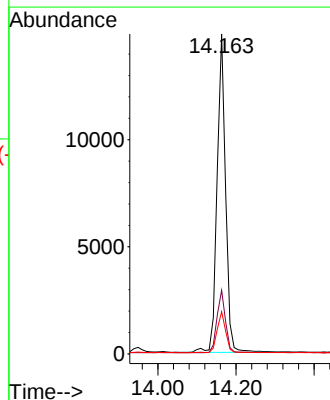
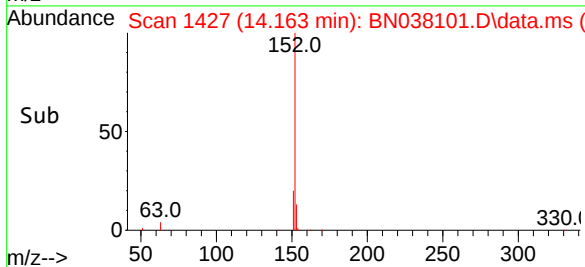
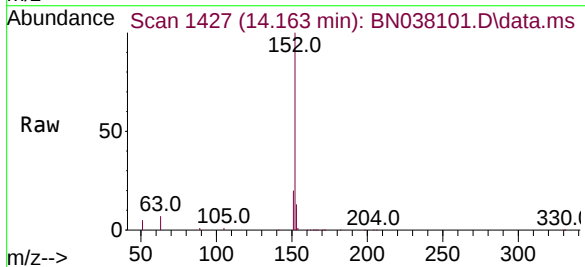
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

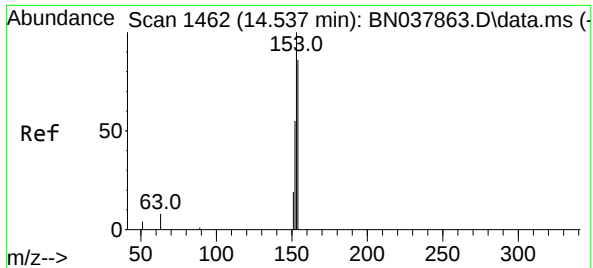
Tgt Ion:	172	Resp:	20463
Ion Ratio	Lower	Upper	
172	100		
171	35.6	28.6	43.0
170	24.2	19.7	29.5



#16
Acenaphthylene
Concen: 0.390 ng
RT: 14.163 min Scan# 1427
Delta R.T. -0.032 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:	152	Resp:	22614
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.8	23.8
153	13.0	10.5	15.7

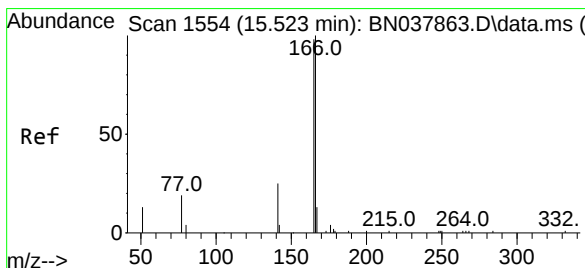
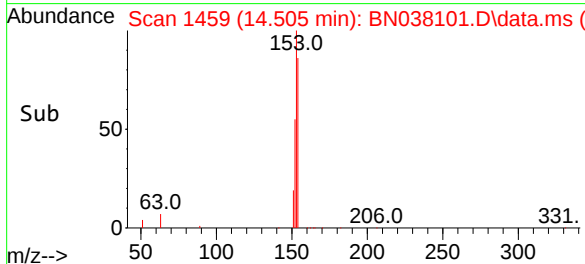
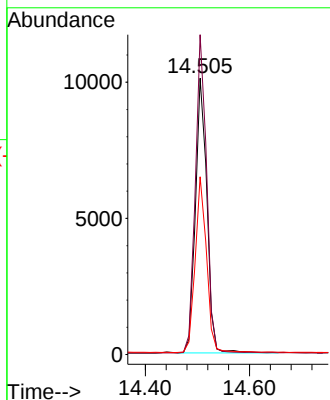
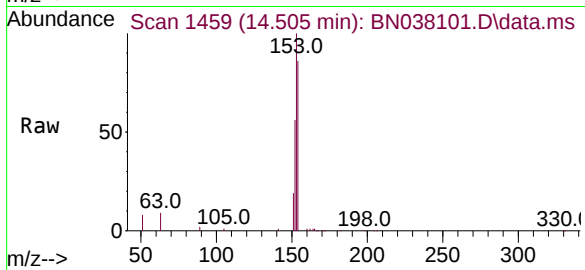




#17
Acenaphthene
Concen: 0.374 ng
RT: 14.505 min Scan# 1459
Delta R.T. -0.032 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

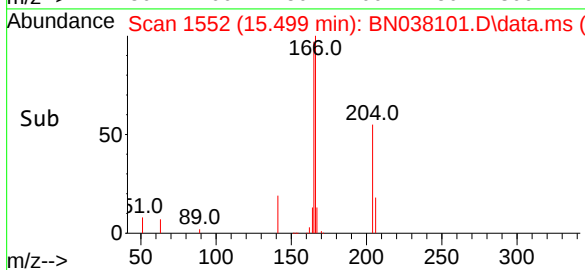
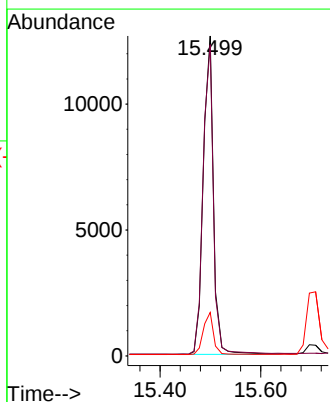
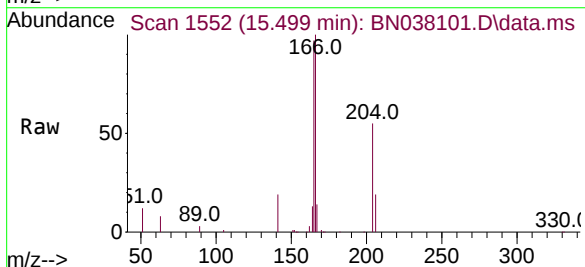
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

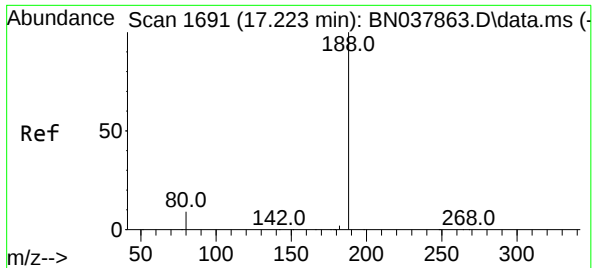
Tgt Ion:154 Resp: 15439
Ion Ratio Lower Upper
154 100
153 113.7 90.5 135.7
152 63.6 51.8 77.8



#18
Fluorene
Concen: 0.382 ng
RT: 15.499 min Scan# 1552
Delta R.T. -0.023 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:166 Resp: 19109
Ion Ratio Lower Upper
166 100
165 98.0 79.0 118.4
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

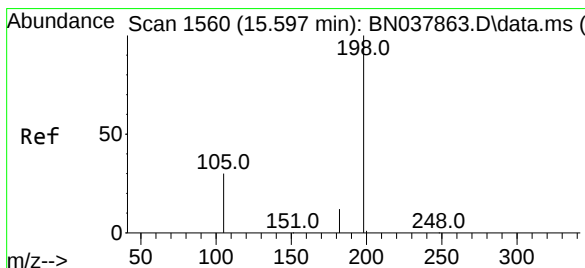
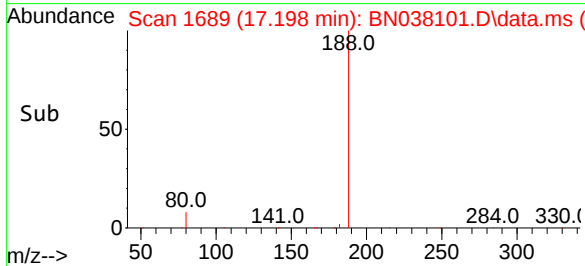
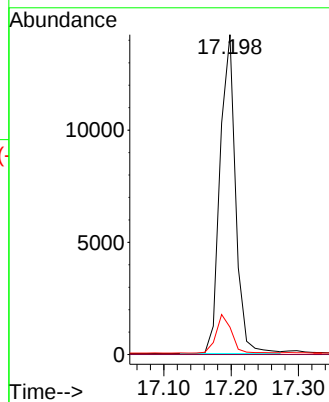
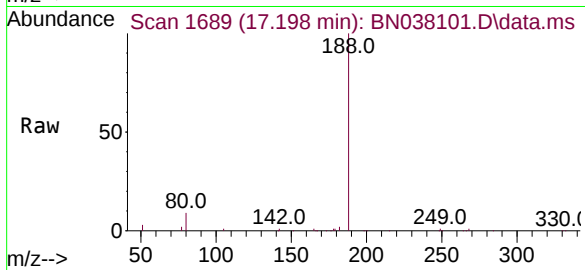
Tgt Ion:188 Resp: 22871

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.572 min Scan# 1558

Delta R.T. -0.025 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

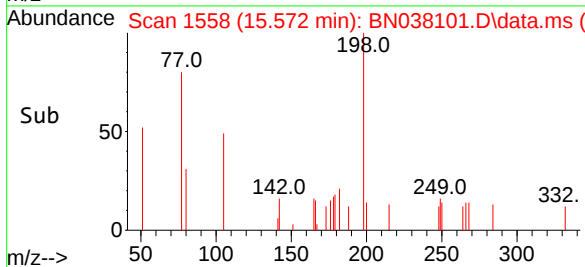
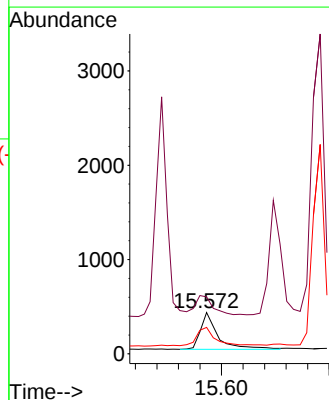
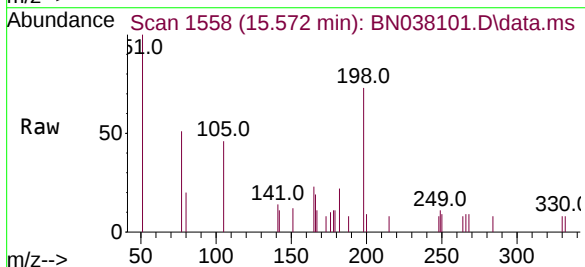
Tgt Ion:198 Resp: 868

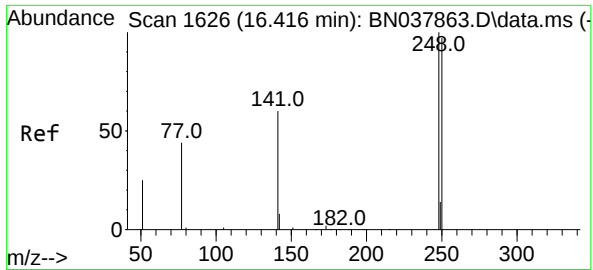
Ion Ratio Lower Upper

198 100

51 137.9 59.1 88.7#

105 63.9 41.3 61.9#

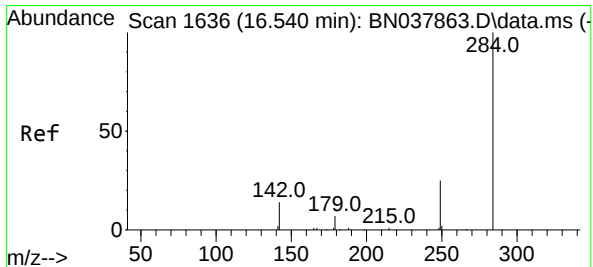
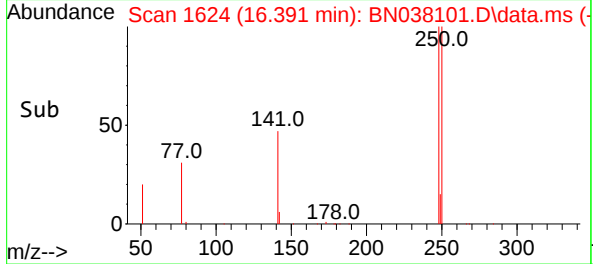
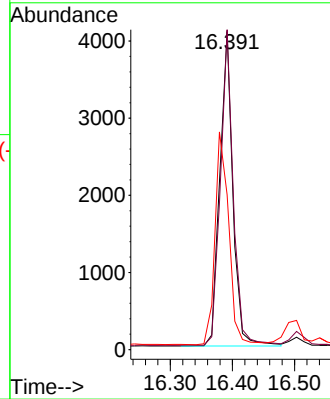
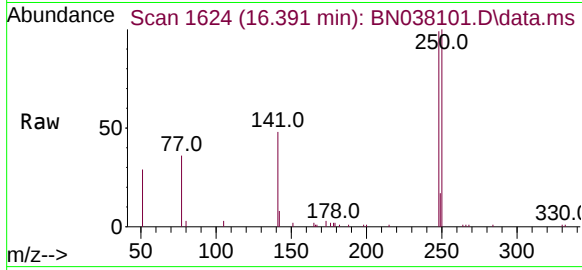




#21
4-Bromophenyl-phenylether
Concen: 0.401 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

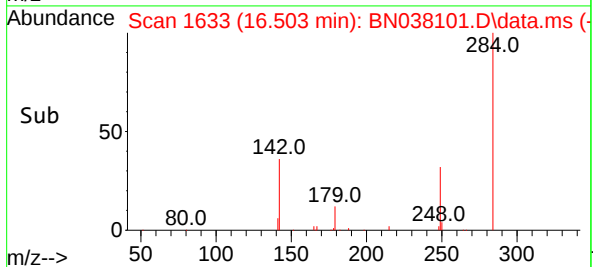
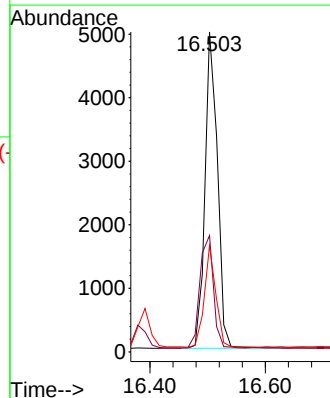
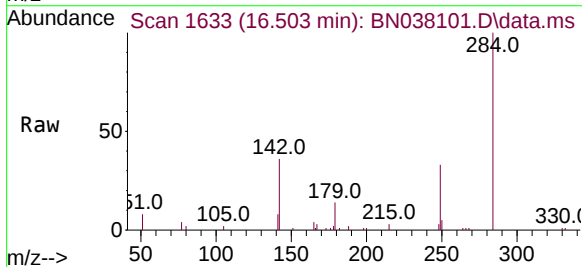
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

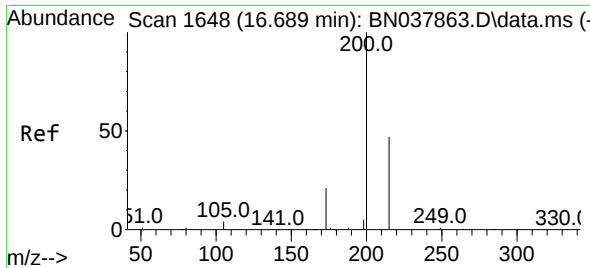
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	77.6	116.4
141	48.7	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.037 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.7	30.9	46.3
249	29.9	23.9	35.9

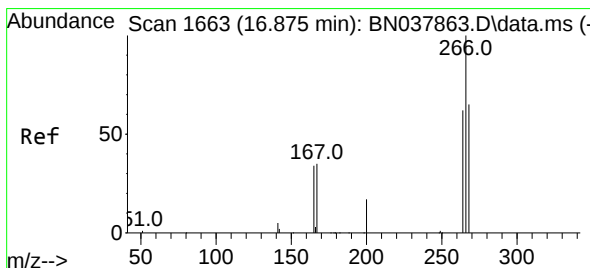
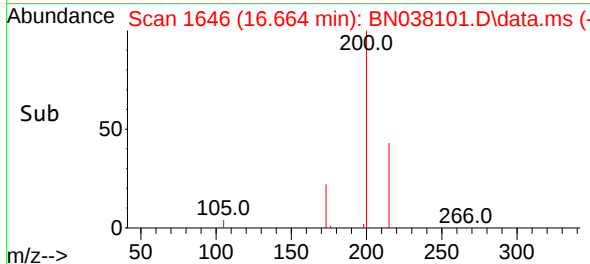
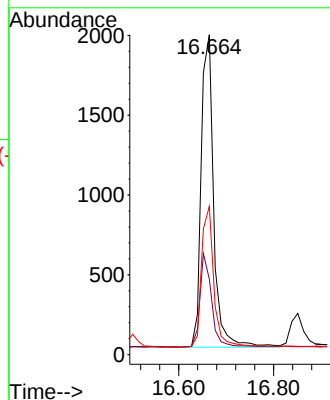
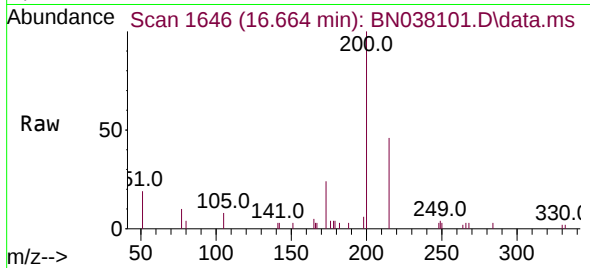




#23
Atrazine
Concen: 0.314 ng
RT: 16.664 min Scan# 1646
Delta R.T. -0.025 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

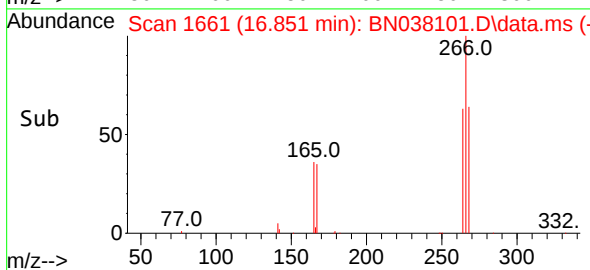
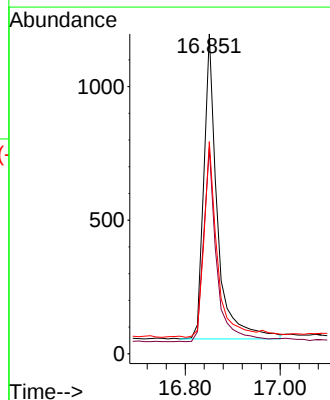
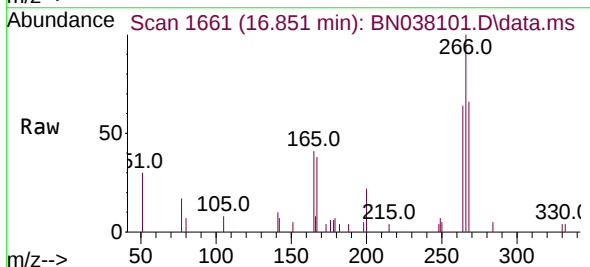
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

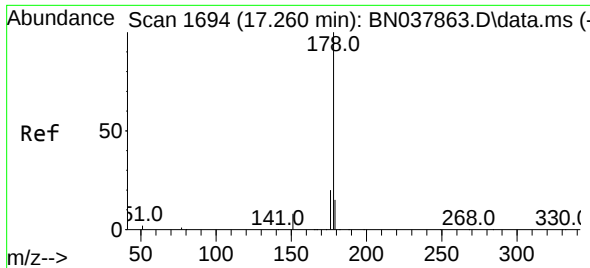
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.6	18.3	27.5
215	46.3	38.6	58.0



#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.851 min Scan# 1661
Delta R.T. -0.024 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.4	50.9	76.3
268	64.0	54.3	81.5

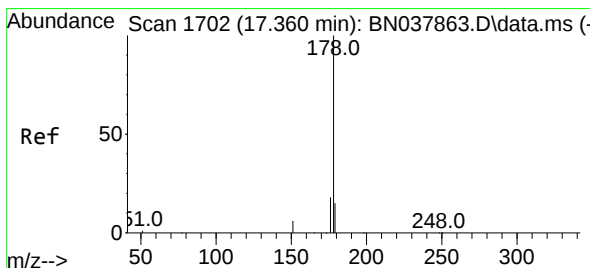
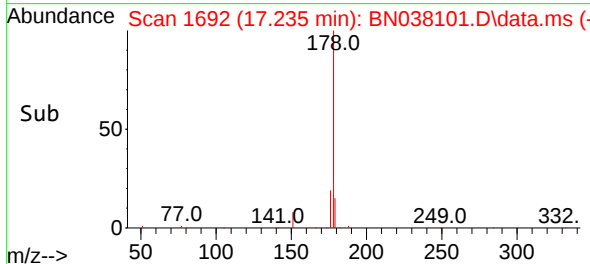
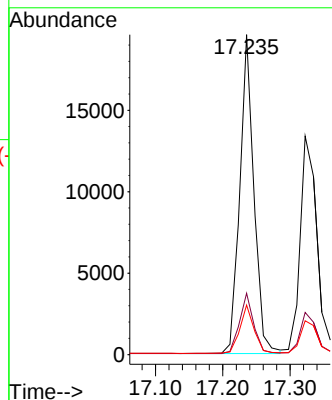
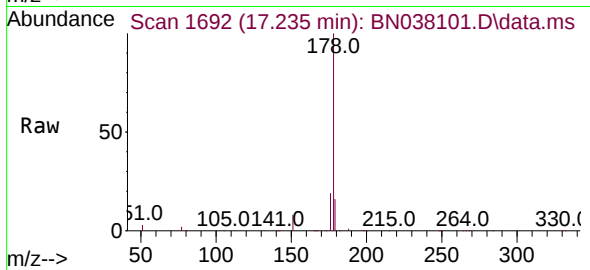




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.025 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

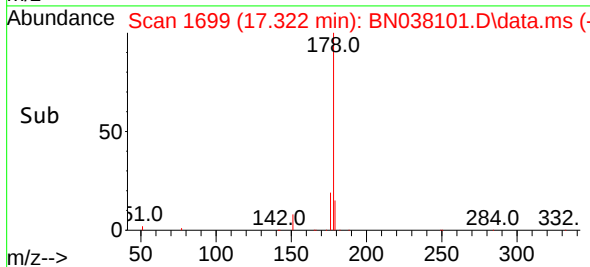
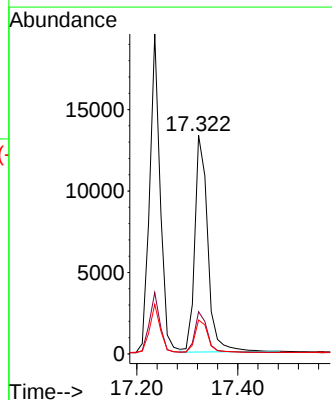
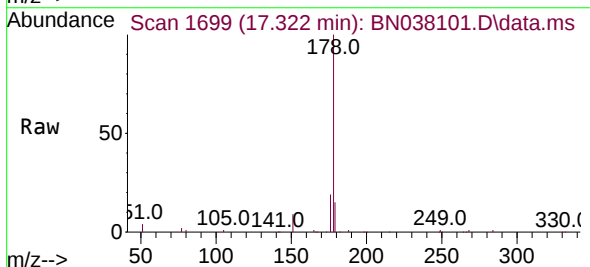
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

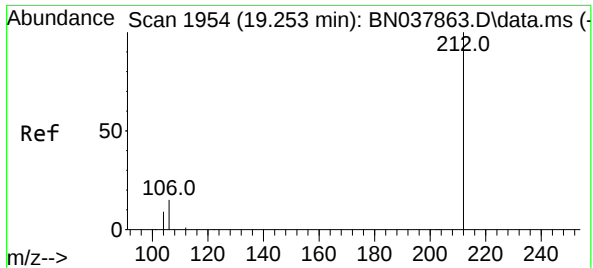
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.4	12.3	18.5



#26
Anthracene
Concen: 0.362 ng
RT: 17.322 min Scan# 1699
Delta R.T. -0.037 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.4	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.346 ng

RT: 19.229 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

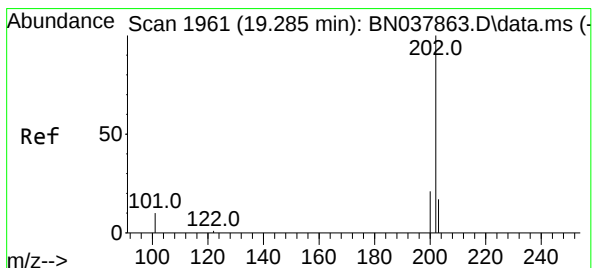
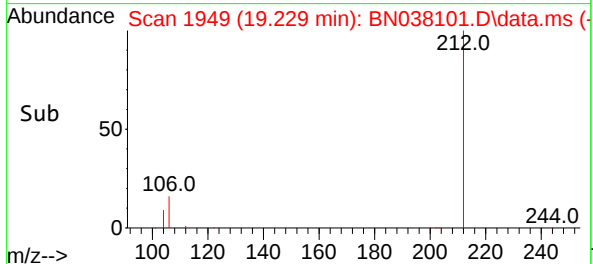
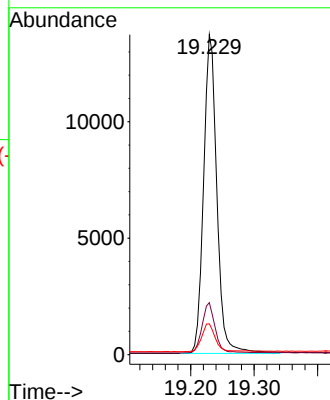
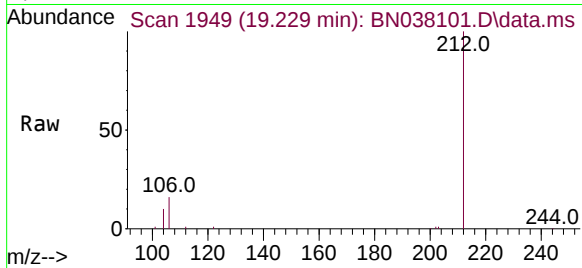
Tgt Ion:212 Resp: 19887

Ion Ratio Lower Upper

212 100

106 15.6 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.343 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.023 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

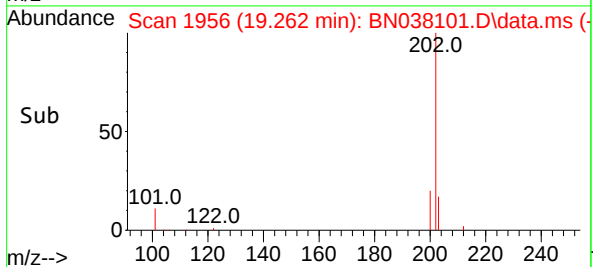
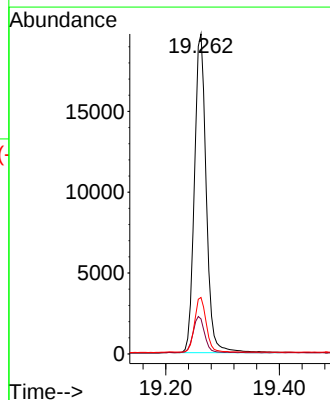
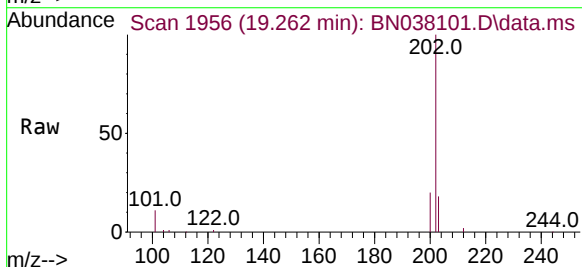
Tgt Ion:202 Resp: 28434

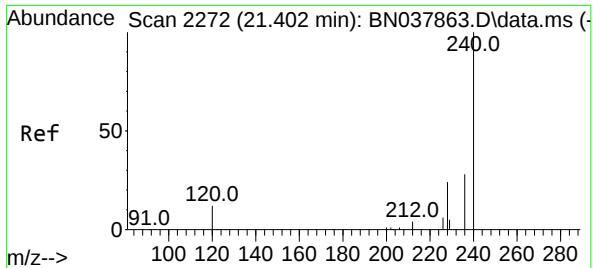
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 16.8 13.6 20.4

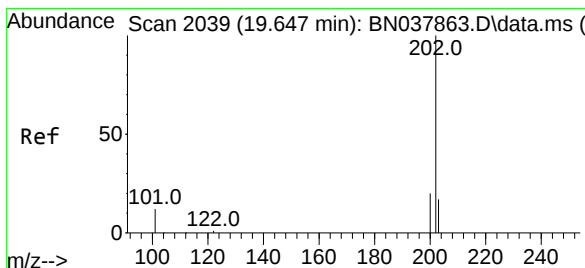
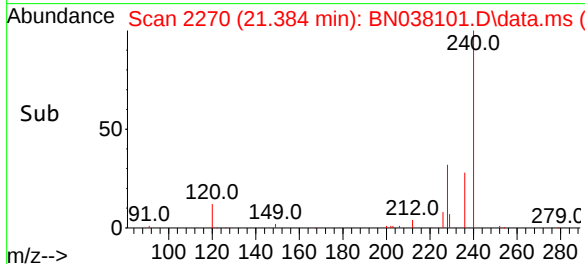
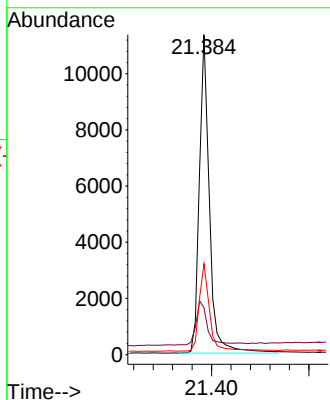
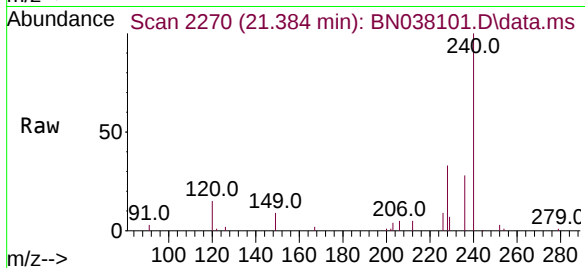




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

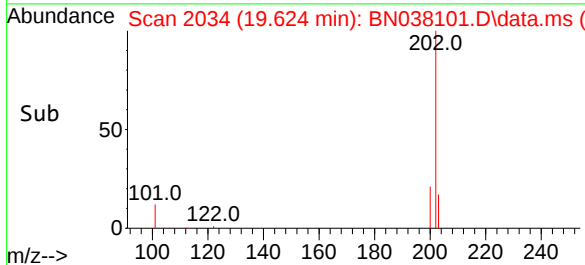
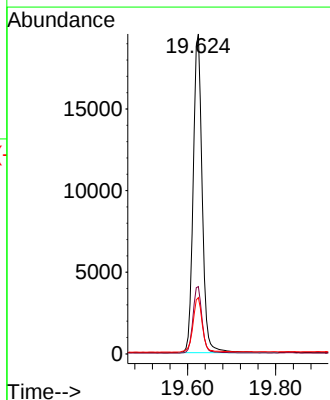
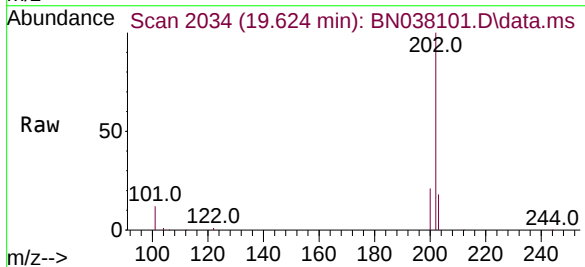
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

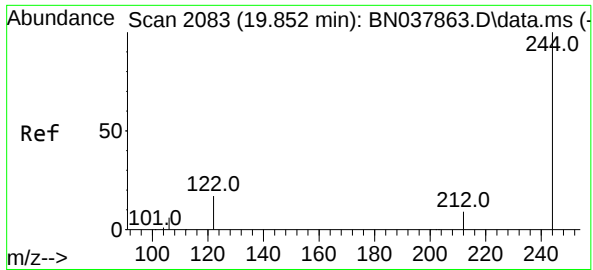
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.7	11.4	17.2
236	28.4	23.0	34.6



#30
Pyrene
Concen: 0.431 ng
RT: 19.624 min Scan# 2034
Delta R.T. -0.023 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.9	14.2	21.4

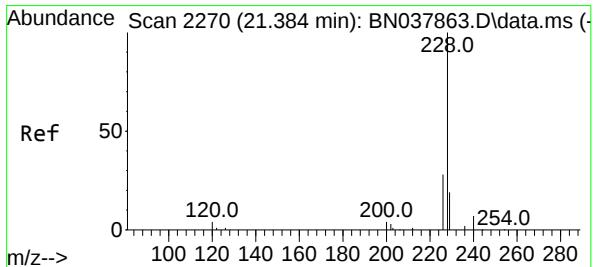
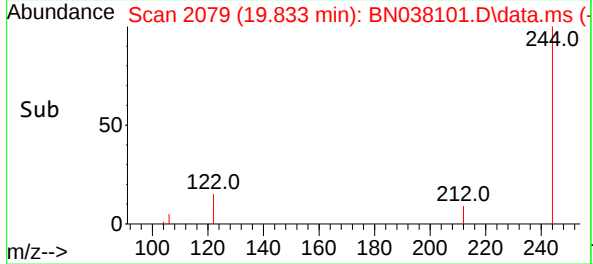
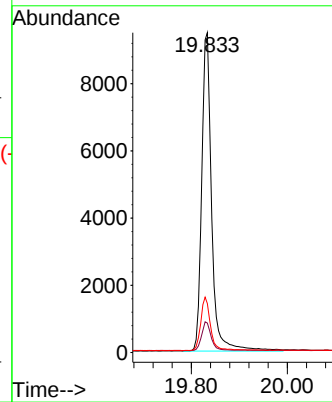
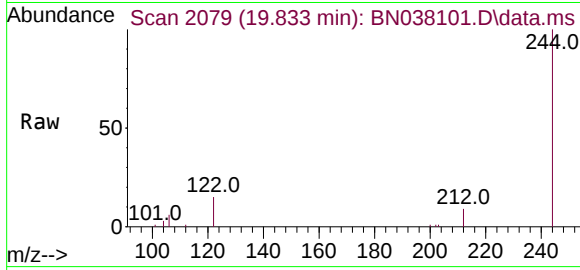




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.833 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

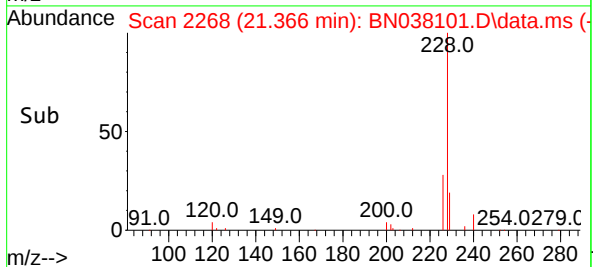
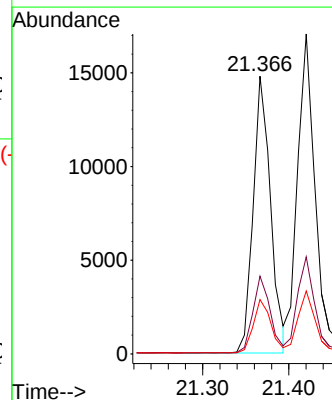
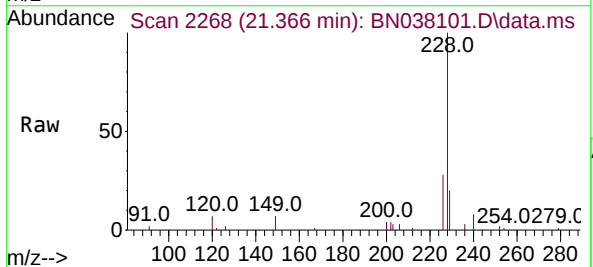
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

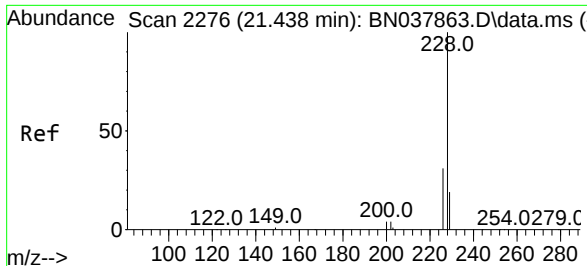
Tgt Ion:244	Resp:	13514
Ion Ratio	Lower	Upper
244	100	
212	9.2	7.6 11.4
122	15.3	13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.366 min Scan# 2268
Delta R.T. -0.018 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion:228	Resp:	20668
Ion Ratio	Lower	Upper
228	100	
226	28.0	22.6 33.8
229	19.5	15.6 23.4

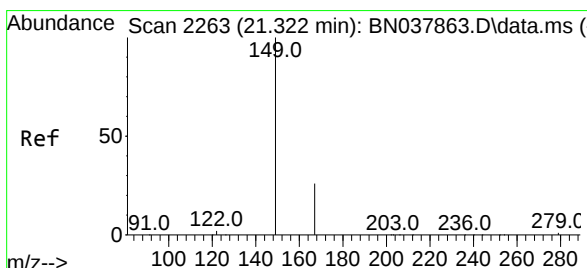
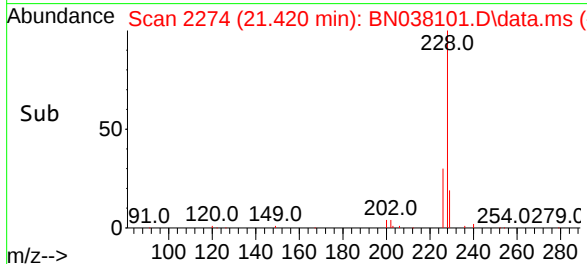
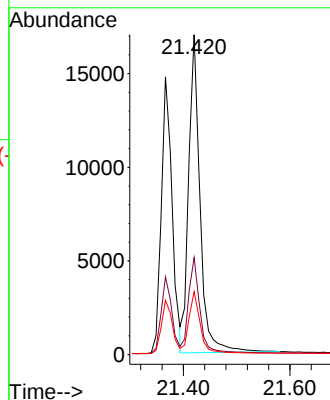
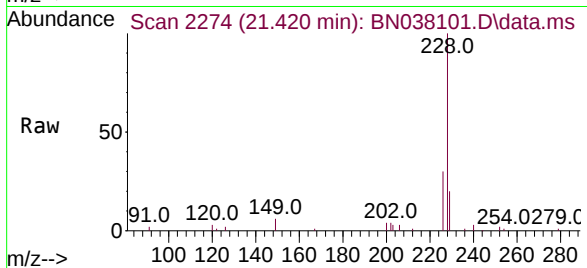




#33
Chrysene
Concen: 0.409 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

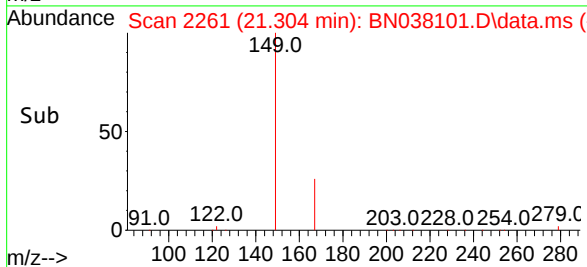
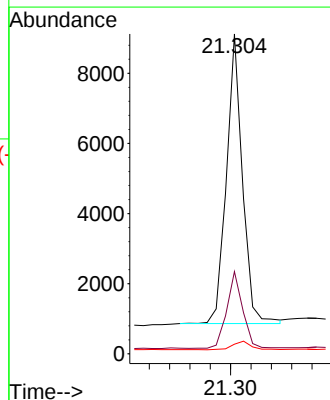
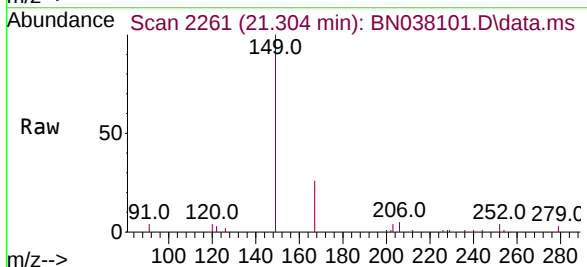
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

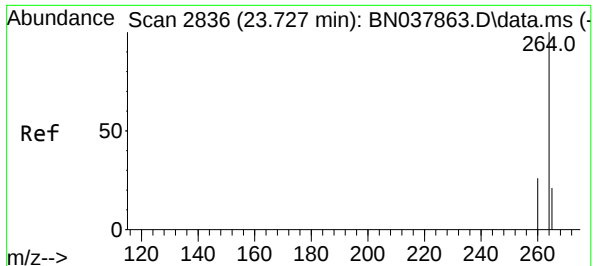
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.018 min
Lab File: BN038101.D
Acq: 20 Oct 2025 17:20

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.4	30.6
279	3.4	2.4	3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.701 min Scan# 2836

Delta R.T. -0.026 min

Lab File: BN038101.D

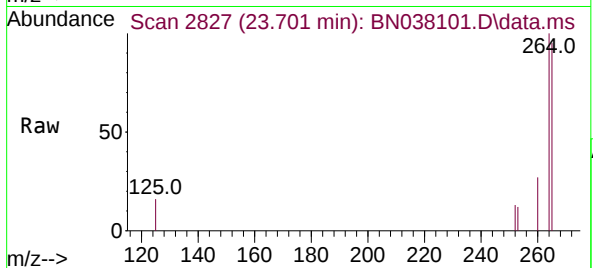
Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



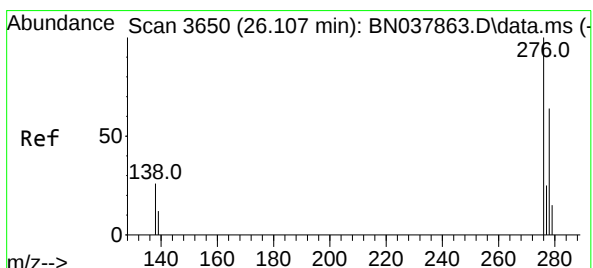
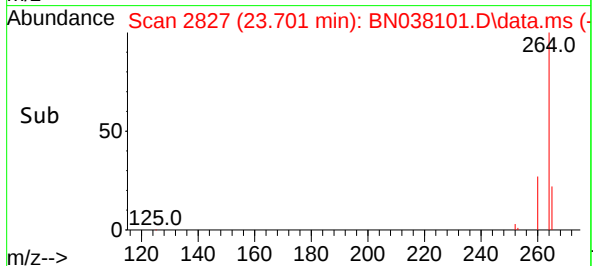
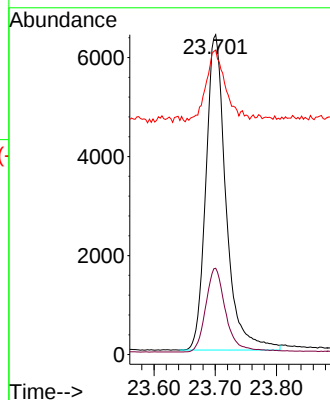
Tgt Ion:264 Resp: 14546

Ion Ratio Lower Upper

264 100

260 27.0 21.5 32.3

265 95.2 53.8 80.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.379 ng

RT: 26.060 min Scan# 3634

Delta R.T. -0.047 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

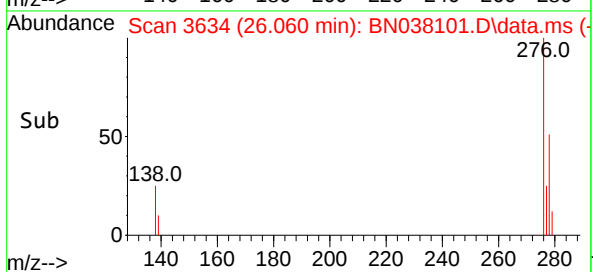
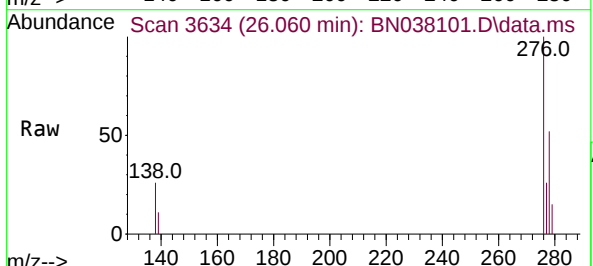
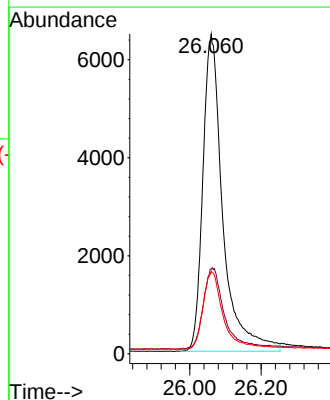
Tgt Ion:276 Resp: 25177

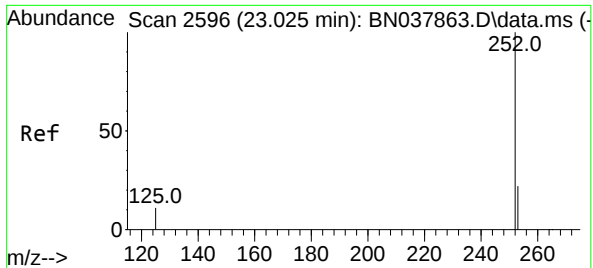
Ion Ratio Lower Upper

276 100

138 26.5 21.4 32.0

277 23.5 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.368 ng

RT: 22.999 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

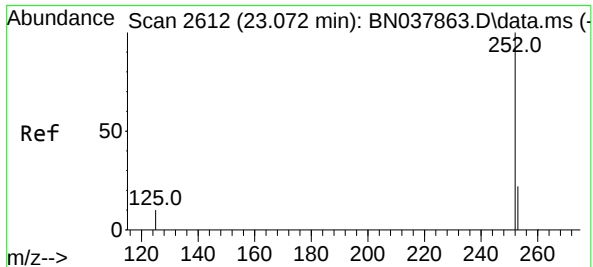
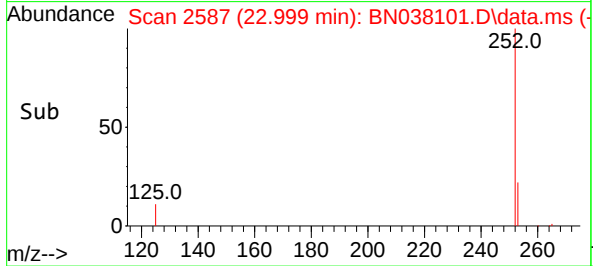
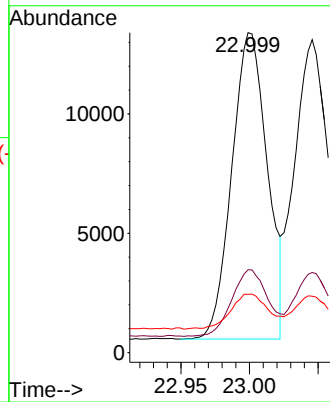
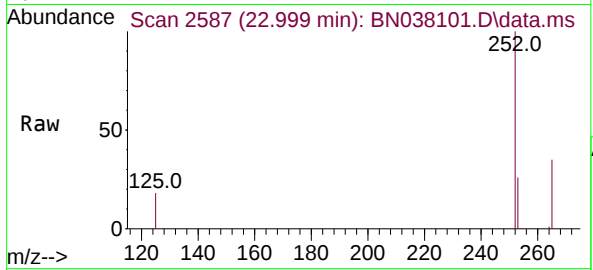
Tgt Ion:252 Resp: 23093

Ion Ratio Lower Upper

252 100

253 25.9 19.4 29.0

125 18.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.026 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

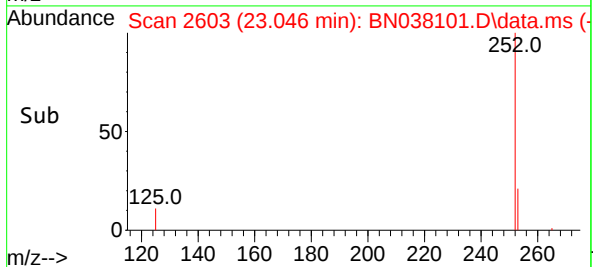
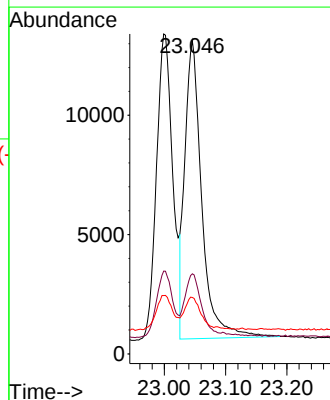
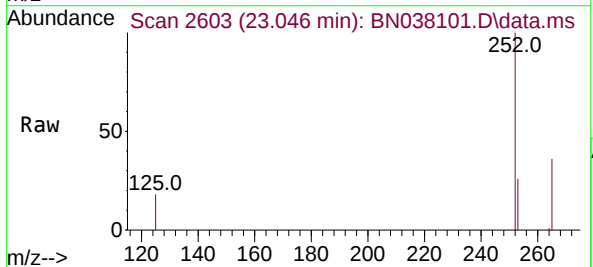
Tgt Ion:252 Resp: 23964

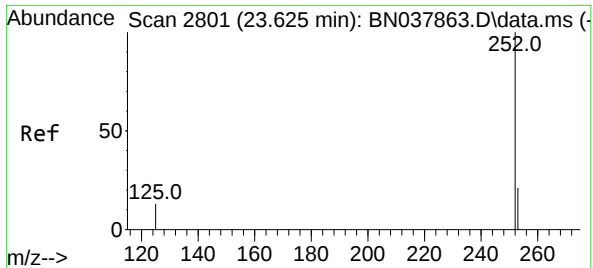
Ion Ratio Lower Upper

252 100

253 25.6 19.5 29.3

125 18.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.598 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

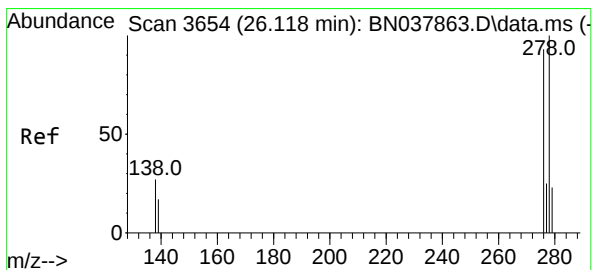
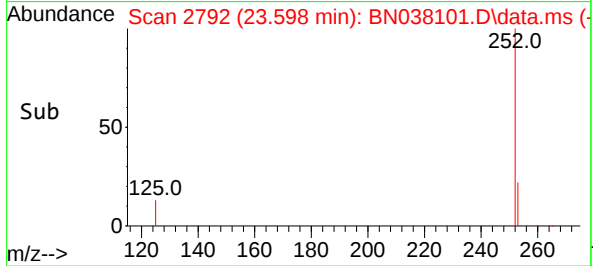
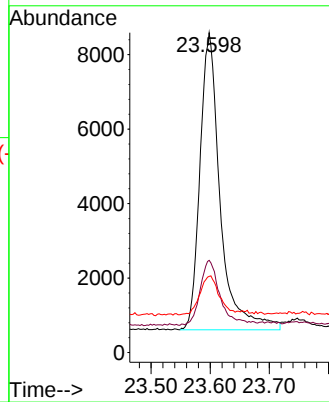
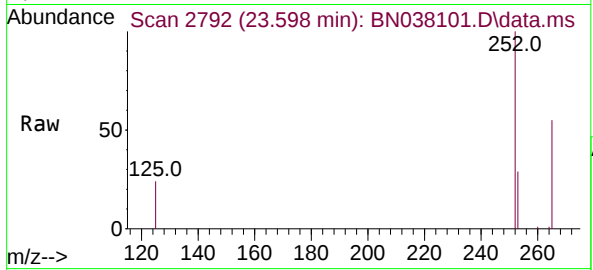
Tgt Ion:252 Resp: 18974

Ion Ratio Lower Upper

252 100

253 28.8 20.6 30.8

125 23.8 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.356 ng

RT: 26.078 min Scan# 3640

Delta R.T. -0.041 min

Lab File: BN038101.D

Acq: 20 Oct 2025 17:20

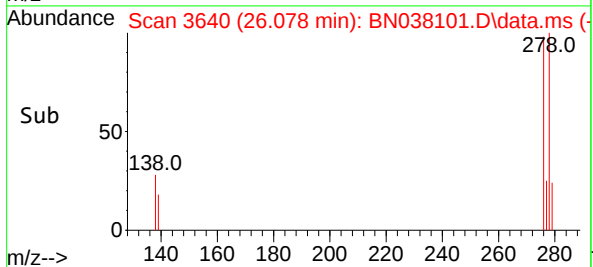
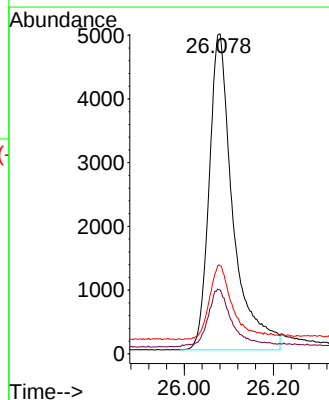
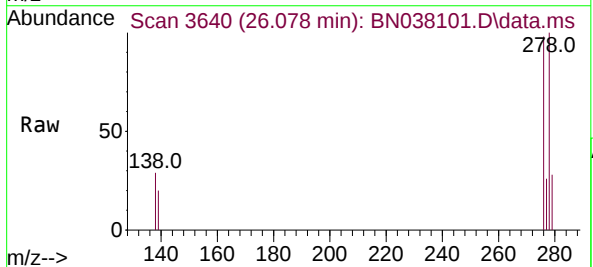
Tgt Ion:278 Resp: 18452

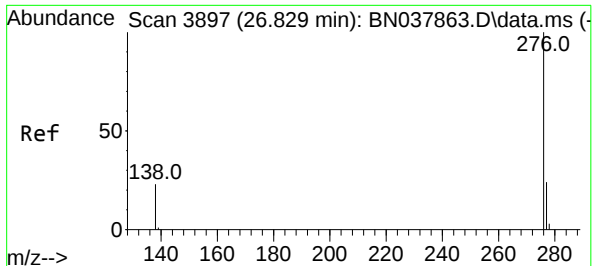
Ion Ratio Lower Upper

278 100

139 20.1 15.4 23.2

279 27.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.779 min Scan# 38

Delta R.T. -0.050 min

Lab File: BN038101.D

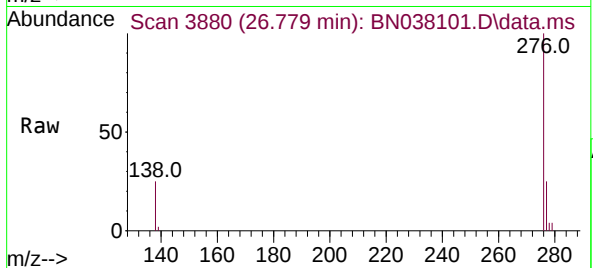
Acq: 20 Oct 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



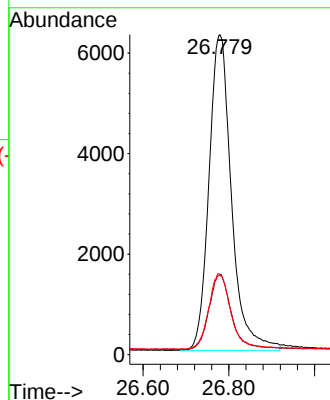
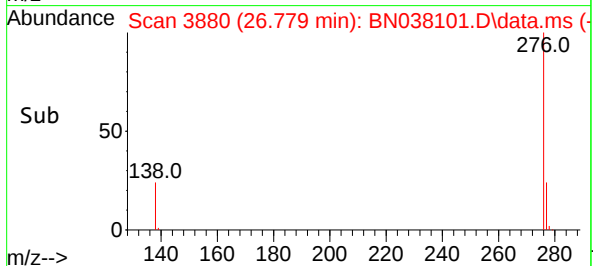
Tgt Ion:276 Resp: 22890

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.4

138 25.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038101.D
Acq On : 20 Oct 2025 17:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 20 18:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 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	152#	0.00
2	1,4-Dioxane	0.406	0.472	-16.3	175#	0.00
3	n-Nitrosodimethylamine	0.540	0.515	4.6	152#	0.00
4 S	2-Fluorophenol	0.913	0.879	3.7	156#	0.00
5 S	Phenol-d6	1.199	1.019	15.0	139	0.00
6	bis(2-Chloroethyl)ether	1.113	1.084	2.6	152#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	150#	0.00
8 S	Nitrobenzene-d5	0.305	0.277	9.2	144	0.00
9	Naphthalene	1.102	1.088	1.3	156#	0.00
10	Hexachlorobutadiene	0.188	0.193	-2.7	160#	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.539	3.1	163#	0.00
12	2-Methylnaphthalene	0.720	0.694	3.6	157#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	155#	0.00
14 S	2,4,6-Tribromophenol	0.152	0.135	11.2	154#	0.00
15 S	2-Fluorobiphenyl	1.638	1.602	2.2	159#	0.00
16	Acenaphthylene	1.816	1.771	2.5	165#	0.00
17	Acenaphthene	1.294	1.209	6.6	156#	0.00
18	Fluorene	1.565	1.496	4.4	160#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	143	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.038	33.3#	125	0.00
21	4-Bromophenyl-phenylether	0.261	0.261	0.0	153#	0.00
22	Hexachlorobenzene	0.316	0.325	-2.8	153#	0.00
23	Atrazine	0.199	0.156	21.6	130	0.00
24	Pentachlorophenol	0.108	0.098	9.3	153#	0.00
25	Phenanthrene	1.316	1.243	5.5	145	0.00
26	Anthracene	1.142	1.033	9.5	145	0.00
27 SURR	Fluoranthene-d10	1.006	0.870	13.5	141	0.00
28	Fluoranthene	1.450	1.243	14.3	136	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	120	0.00
30	Pyrene	1.579	1.700	-7.7	134	0.00
31 S	Terphenyl-d14	0.797	0.829	-4.0	132	0.00
32	Benzo(a)anthracene	1.398	1.268	9.3	118	0.00
33	Chrysene	1.512	1.544	-2.1	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.554	-0.2	136	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.731	5.3	121	0.00
37	Benzo(b)fluoranthene	1.725	1.588	7.9	112	0.00
38	Benzo(k)fluoranthene	1.736	1.647	5.1	119	0.00
39 C	Benzo(a)pyrene	1.364	1.304	4.4	123	0.00
40	Dibenzo(a,h)anthracene	1.427	1.269	11.1	113	0.00
41	Benzo(g,h,i)perylene	1.499	1.574	-5.0	130	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038101.D
Acq On : 20 Oct 2025 17:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 20 18:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 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	152	0.00
2	1,4-Dioxane	0.400	0.465	-16.3	175	0.00
3	n-Nitrosodimethylamine	0.400	0.381	4.8	152	0.00
4 S	2-Fluorophenol	0.400	0.385	3.8	156	0.00
5 S	Phenol-d6	0.400	0.340	15.0	139	0.00
6	bis(2-Chloroethyl)ether	0.400	0.390	2.5	152	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	150	0.00
8 S	Nitrobenzene-d5	0.400	0.363	9.3	144	0.00
9	Naphthalene	0.400	0.395	1.3	156	0.00
10	Hexachlorobutadiene	0.400	0.411	-2.7	160	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.388	3.0	163	0.00
12	2-Methylnaphthalene	0.400	0.386	3.5	157	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	155	0.00
14 S	2,4,6-Tribromophenol	0.400	0.355	11.3	154	0.00
15 S	2-Fluorobiphenyl	0.400	0.391	2.3	159	0.00
16	Acenaphthylene	0.400	0.390	2.5	165	0.00
17	Acenaphthene	0.400	0.374	6.5	156	0.00
18	Fluorene	0.400	0.382	4.5	160	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	143	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	125	0.00
21	4-Bromophenyl-phenylether	0.400	0.401	-0.3	153	0.00
22	Hexachlorobenzene	0.400	0.412	-3.0	153	0.00
23	Atrazine	0.400	0.314	21.5	130	0.00
24	Pentachlorophenol	0.400	0.363	9.3	153	0.00
25	Phenanthrene	0.400	0.378	5.5	145	0.00
26	Anthracene	0.400	0.362	9.5	145	0.00
27 SURR	Fluoranthene-d10	0.400	0.346	13.5	141	0.00
28	Fluoranthene	0.400	0.343	14.2	136	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	120	0.00
30	Pyrene	0.400	0.431	-7.7	134	0.00
31 S	Terphenyl-d14	0.400	0.416	-4.0	132	0.00
32	Benzo(a)anthracene	0.400	0.363	9.3	118	0.00
33	Chrysene	0.400	0.409	-2.2	127	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.401	-0.3	136	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.379	5.3	121	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	112	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	119	0.00
39 C	Benzo(a)pyrene	0.400	0.382	4.5	123	0.00
40	Dibenzo(a,h)anthracene	0.400	0.356	11.0	113	0.00
41	Benzo(g,h,i)perylene	0.400	0.420	-5.0	130	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: TETR06
 Lab Code: ACE SDG No.: Q3371
 Instrument ID: BNA_N Calibration Date/Time: 10/20/2025 22:10
 Lab File ID: BN038109.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.519		-6.7	50.0
Fluoranthene-d10	1.006	0.890		-11.5	50.0
2-Fluorophenol	0.913	0.912		-0.1	50.0
Phenol-d6	1.199	1.015		-15.3	50.0
Nitrobenzene-d5	0.305	0.273		-10.5	50.0
2-Fluorobiphenyl	1.638	1.528		-6.7	50.0
2,4,6-Tribromophenol	0.152	0.126		-17.1	50.0
Terphenyl-d14	0.797	0.855		7.3	50.0
1,4-Dioxane	0.406	0.486		19.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
 Data File : BN038109.D
 Acq On : 20 Oct 2025 22:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 21 02:30:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:23:15 2025
 Response via : Initial Calibration

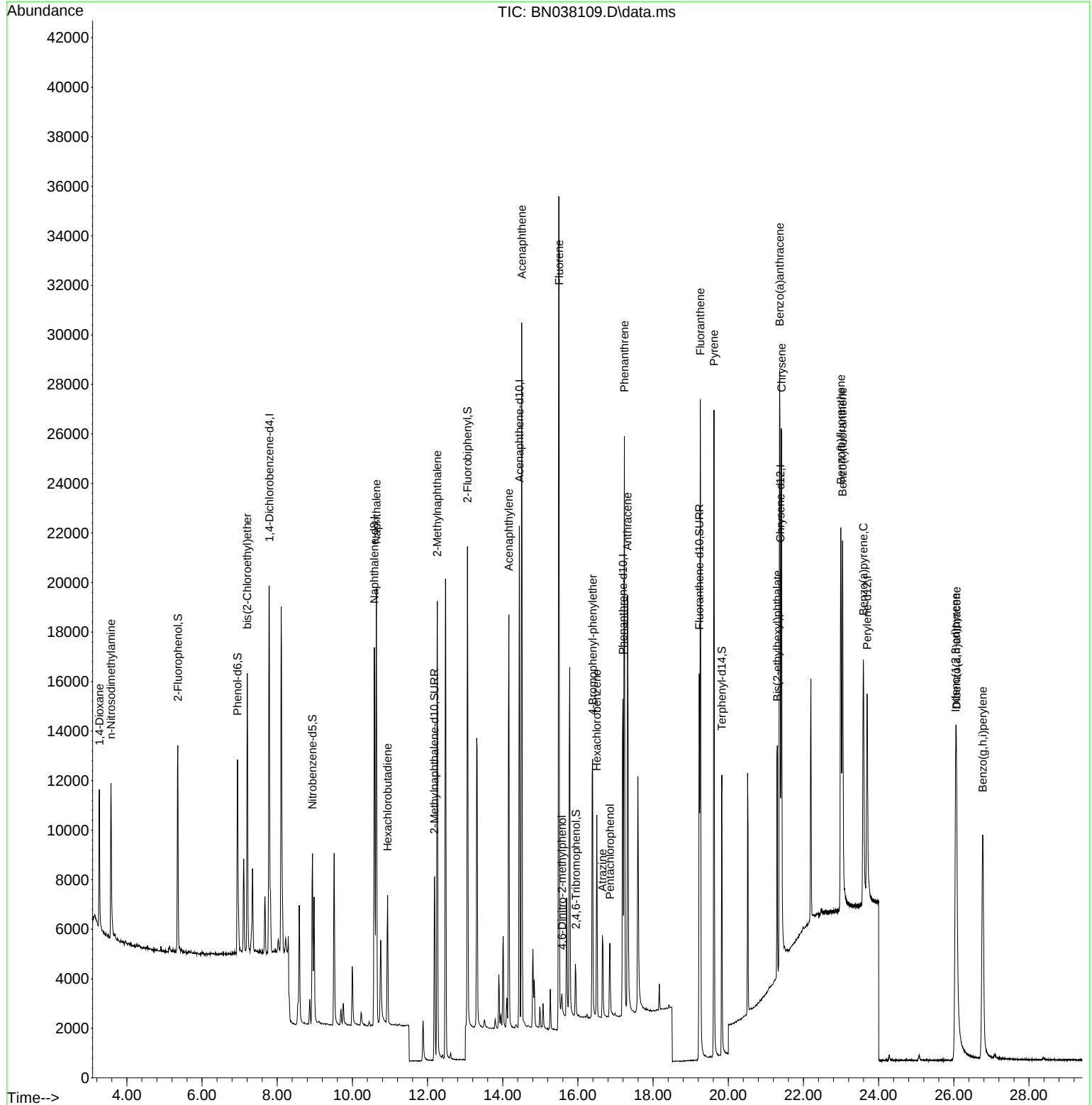
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	7565	0.400	ng	0.00
7) Naphthalene-d8	10.583	136	20860	0.400	ng	# 0.00
13) Acenaphthene-d10	14.441	164	10928	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	19801	0.400	ng	0.00
29) Chrysene-d12	21.384	240	14186	0.400	ng	0.00
35) Perylene-d12	23.691	264	13180	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	6896	0.399	ng	0.00
5) Phenol-d6	6.944	99	7678	0.339	ng	0.00
8) Nitrobenzene-d5	8.939	82	5702	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	12.181	152	10825	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.944	330	1381	0.333	ng	0.00
15) 2-Fluorobiphenyl	13.061	172	16695	0.373	ng	0.00
27) Fluoranthene-d10	19.229	212	17617	0.354	ng	0.00
31) Terphenyl-d14	19.828	244	12125	0.429	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	3675	0.479	ng	99
3) n-Nitrosodimethylamine	3.578	42	4095	0.401	ng	# 91
6) bis(2-Chloroethyl)ether	7.204	93	8146	0.387	ng	100
9) Naphthalene	10.637	128	22443	0.391	ng	100
10) Hexachlorobutadiene	10.935	225	4070	0.415	ng	# 98
12) 2-Methylnaphthalene	12.257	142	13970	0.372	ng	98
16) Acenaphthylene	14.163	152	18878	0.380	ng	99
17) Acenaphthene	14.505	154	13227	0.374	ng	98
18) Fluorene	15.499	166	16522	0.386	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	792	0.379	ng	# 28
21) 4-Bromophenyl-phenylether	16.391	248	4991	0.387	ng	# 91
22) Hexachlorobenzene	16.503	284	6155	0.393	ng	99
23) Atrazine	16.652	200	3231	0.329	ng	# 86
24) Pentachlorophenol	16.850	266	1774	0.330	ng	97
25) Phenanthrene	17.235	178	23838	0.366	ng	100
26) Anthracene	17.322	178	20233	0.358	ng	100
28) Fluoranthene	19.257	202	24899	0.347	ng	100
30) Pyrene	19.619	202	24632	0.440	ng	100
32) Benzo(a)anthracene	21.366	228	18356	0.370	ng	99
33) Chrysene	21.420	228	22123	0.413	ng	99
34) Bis(2-ethylhexyl)phtha...	21.303	149	9322	0.475	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.048	276	23544	0.391	ng	99
37) Benzo(b)fluoranthene	22.996	252	21093	0.371	ng	# 93
38) Benzo(k)fluoranthene	23.039	252	21558	0.377	ng	# 94
39) Benzo(a)pyrene	23.592	252	17197	0.383	ng	# 88
40) Dibenzo(a,h)anthracene	26.071	278	16653	0.354	ng	96
41) Benzo(g,h,i)perylene	26.770	276	21108	0.427	ng	98

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

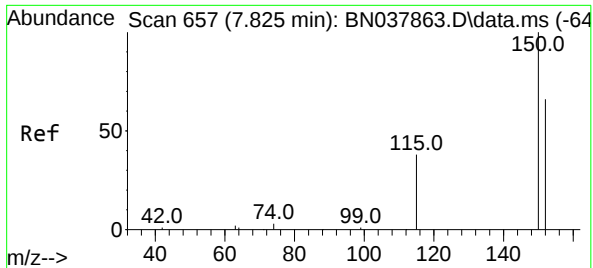
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Data File : BN038109.D
Acq On : 20 Oct 2025 22:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Oct 21 02:30:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration



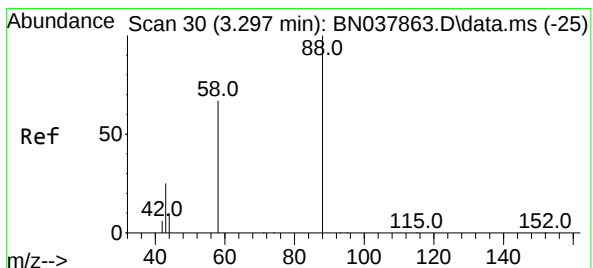
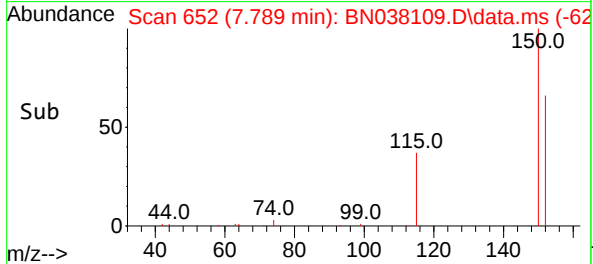
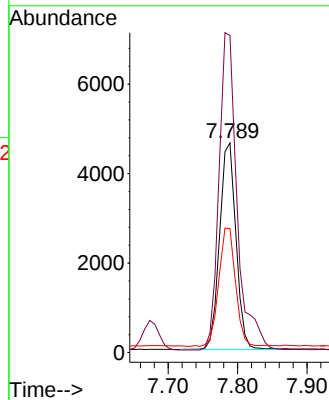
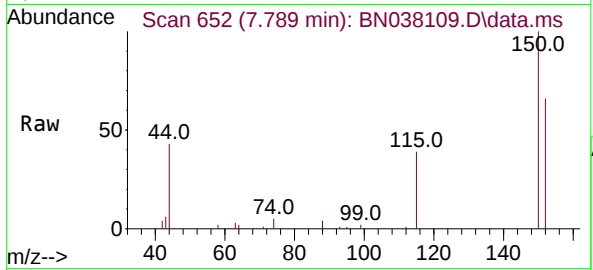
1
2
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16
17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

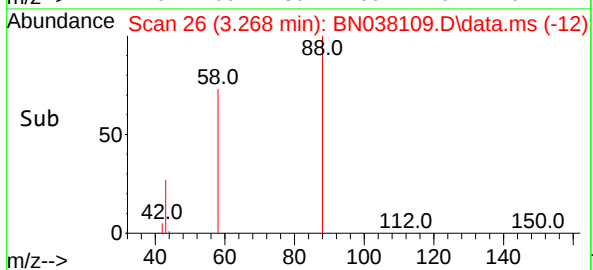
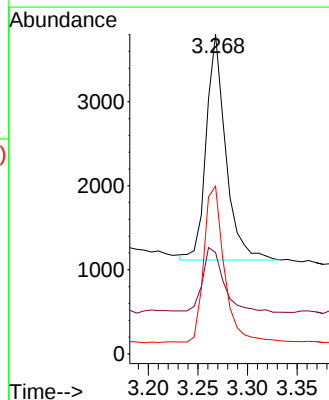
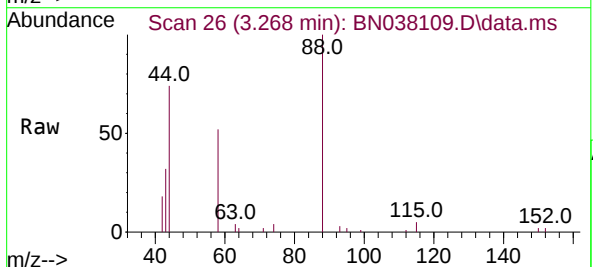
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7565
Ion Ratio Lower Upper
152 100
150 151.3 121.0 181.4
115 59.2 47.4 71.0

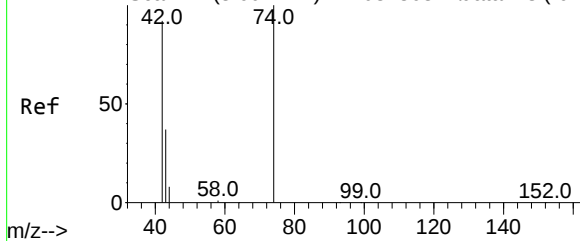


#2
1,4-Dioxane
Concen: 0.479 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion: 88 Resp: 3675
Ion Ratio Lower Upper
88 100
43 32.0 26.6 39.8
58 74.2 58.9 88.3



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.401 ng

RT: 3.578 min Scan# 69

Delta R.T. -0.000 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

Instrument :

BNA_N

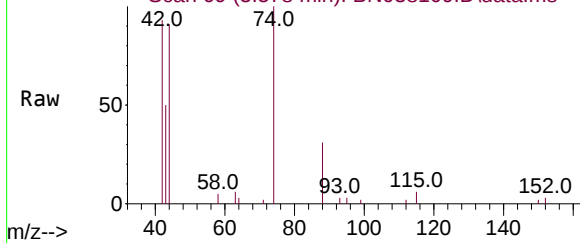
ClientSampleId :

SSTDCCC0.4EC

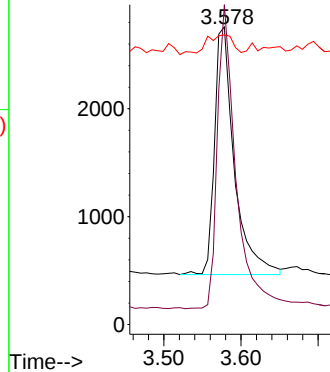
Tgt Ion: 42 Resp: 4095

Ion	Ratio	Lower	Upper
42	100		
74	118.8	93.4	140.0
44	8.5	22.2	33.4

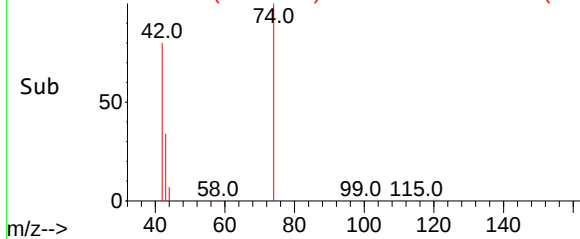
Abundance Scan 69 (3.578 min): BN038109.D\data.ms



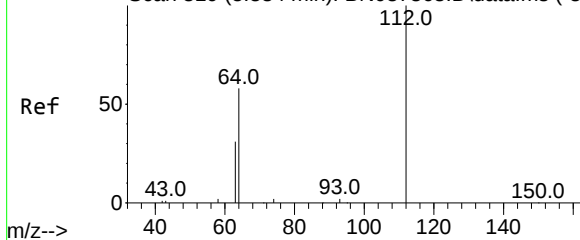
Abundance



Abundance Scan 69 (3.578 min): BN038109.D\data.ms (-48)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.399 ng

RT: 5.355 min Scan# 315

Delta R.T. -0.000 min

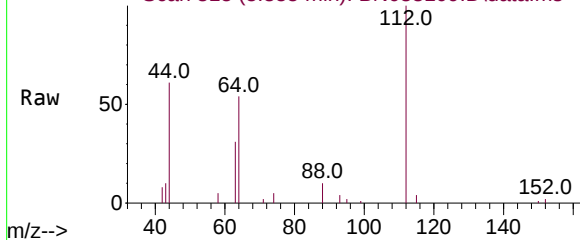
Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

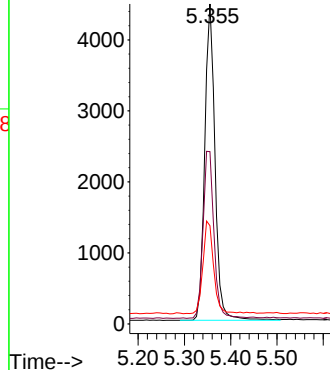
Tgt Ion: 112 Resp: 6896

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.6	66.8
63	30.0	24.9	37.3

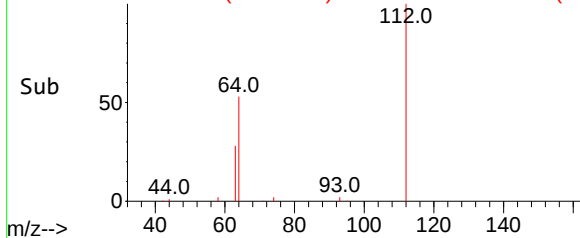
Abundance Scan 315 (5.355 min): BN038109.D\data.ms

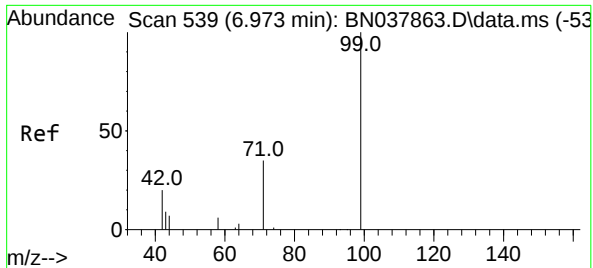


Abundance



Abundance Scan 315 (5.355 min): BN038109.D\data.ms (-28)

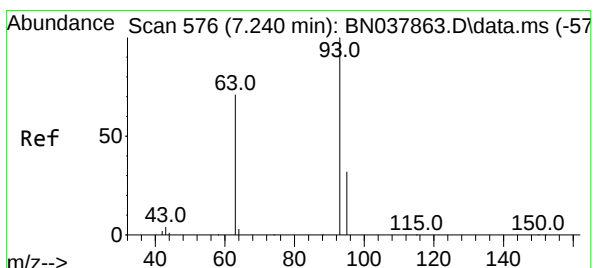
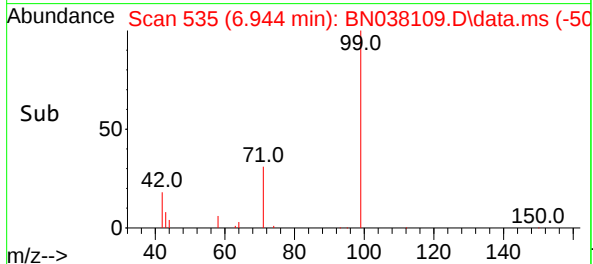
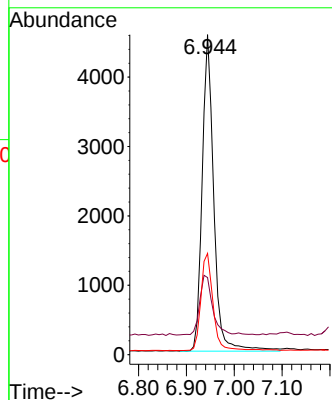
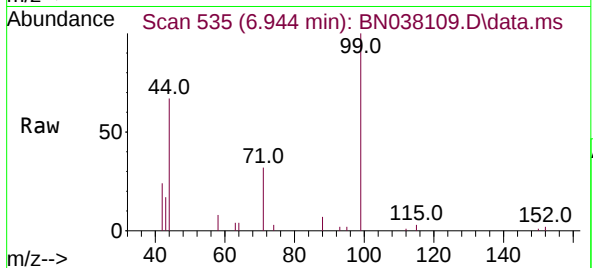




#5
Phenol-d6
Concen: 0.339 ng
RT: 6.944 min Scan# 531
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

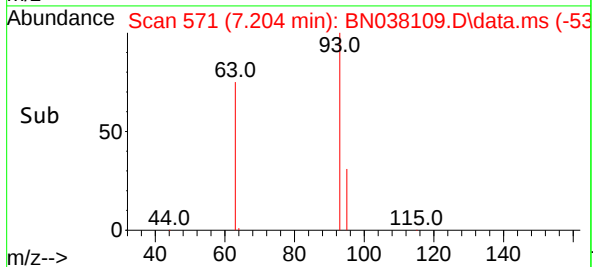
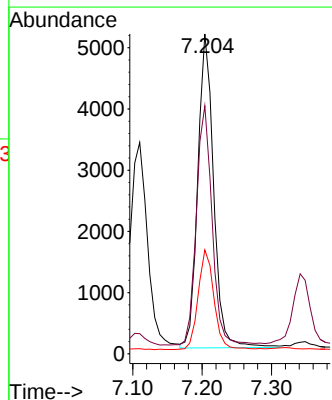
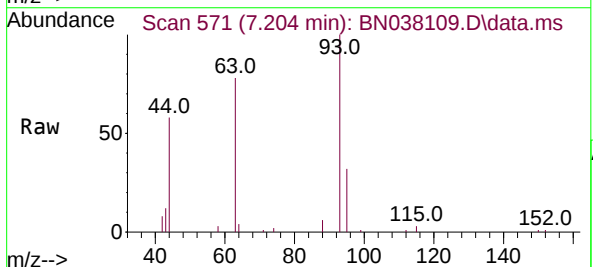
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

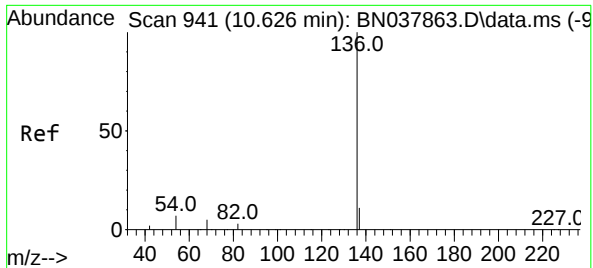
Tgt Ion:	99	Resp:	7678
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	32.1	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.204 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:	93	Resp:	8146
Ion	Ratio	Lower	Upper
93	100		
63	75.3	60.1	90.1
95	31.5	25.4	38.2

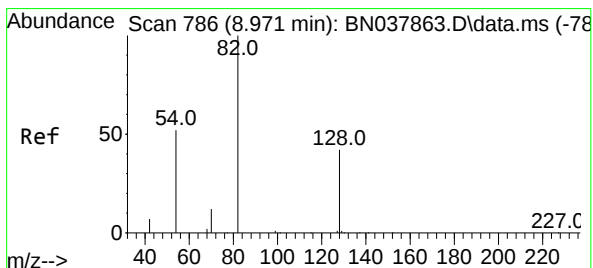
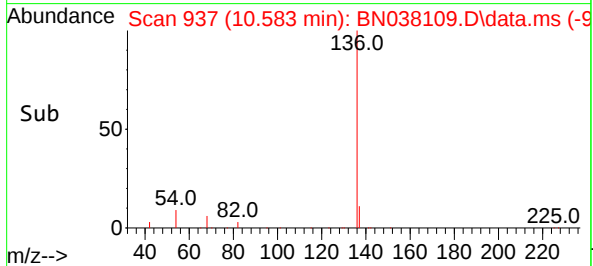
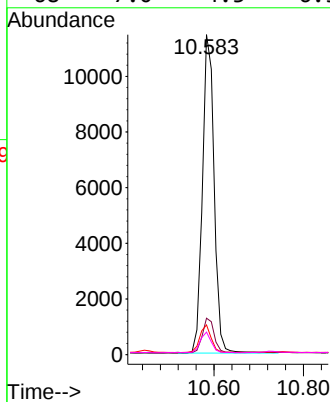
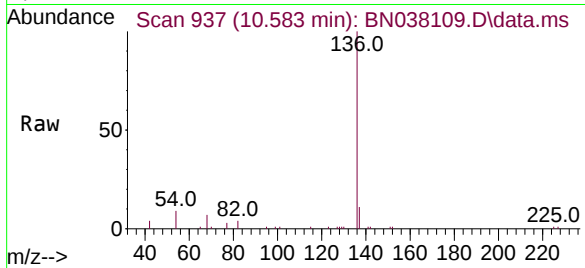




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.583 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

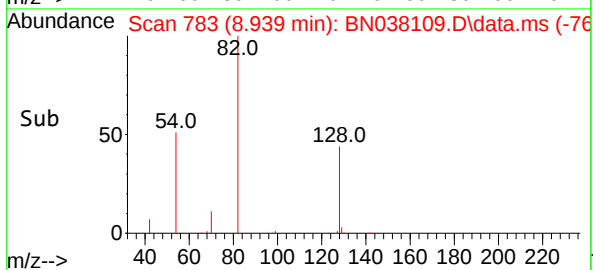
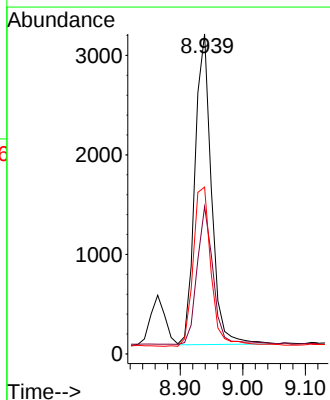
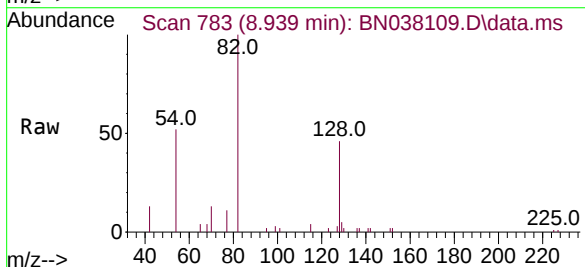
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

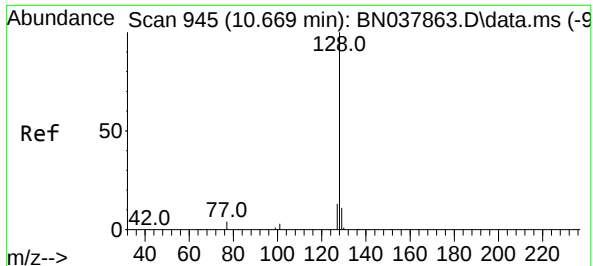
Tgt Ion:136	Resp:	20860
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.0 13.4
54	9.3	5.8 8.8#
68	7.0	4.3 6.5#



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.939 min Scan# 783
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion: 82	Resp:	5702
Ion Ratio	Lower	Upper
82	100	
128	46.0	34.8 52.2
54	52.1	42.2 63.2

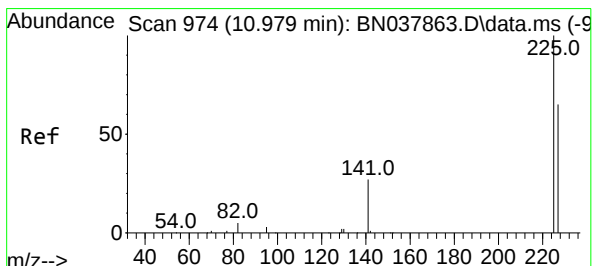
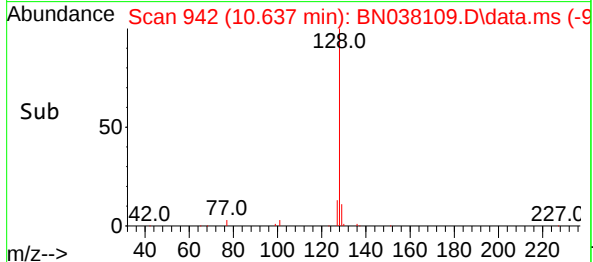
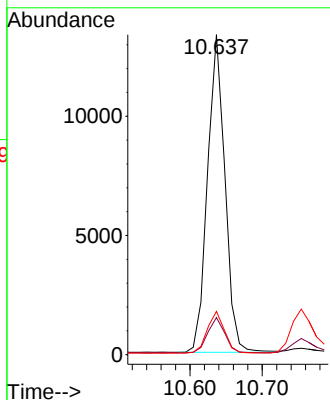
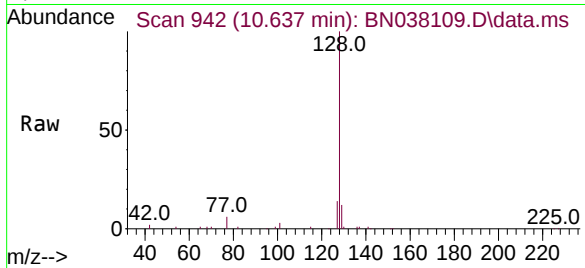




#9
Naphthalene
Concen: 0.391 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

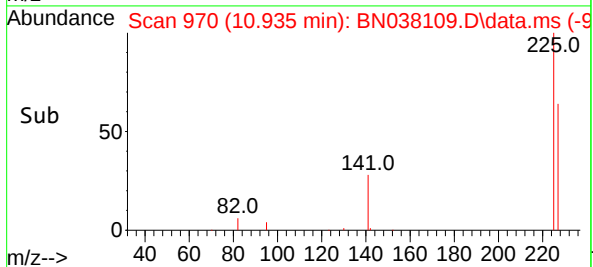
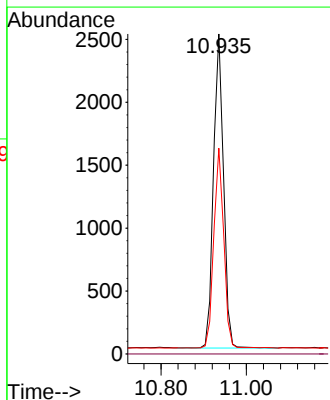
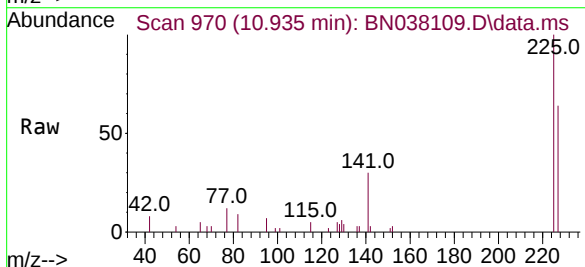
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

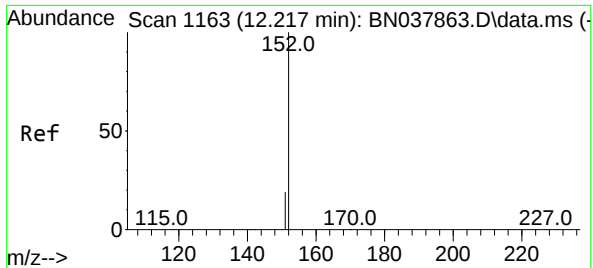
Tgt Ion:	128	Resp:	22443
Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.5	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.935 min Scan# 970
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:	225	Resp:	4070
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.4	77.2

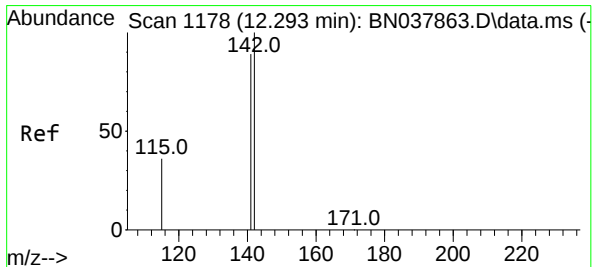
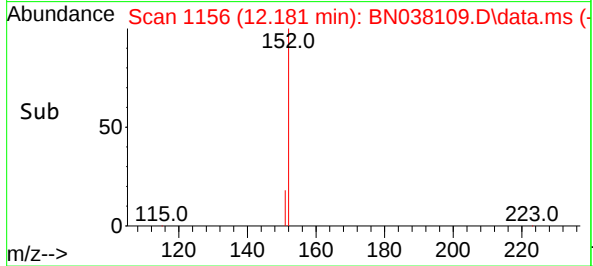
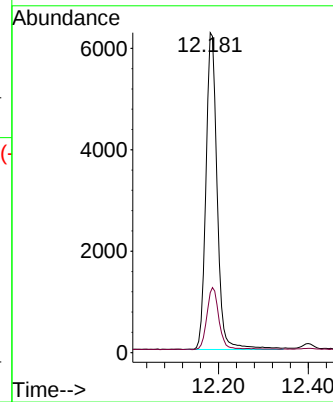
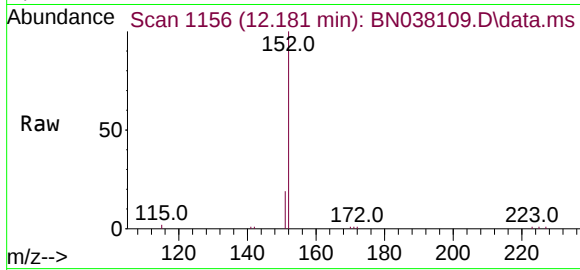




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.181 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

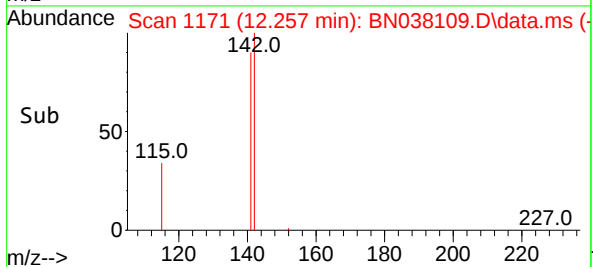
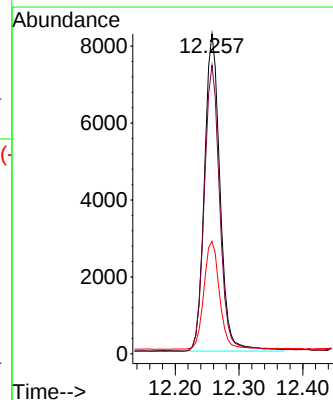
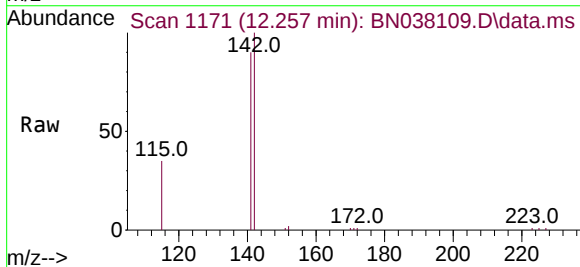
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

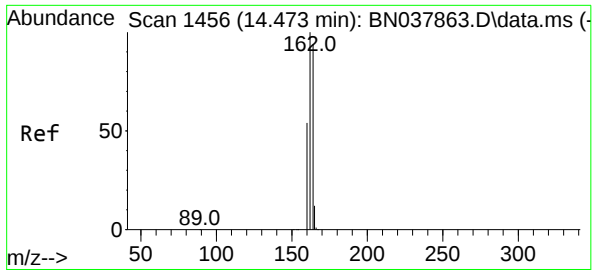
Tgt Ion:152 Resp: 10825
Ion Ratio Lower Upper
152 100
151 20.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.257 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:142 Resp: 13970
Ion Ratio Lower Upper
142 100
141 90.2 71.2 106.8
115 35.2 29.7 44.5

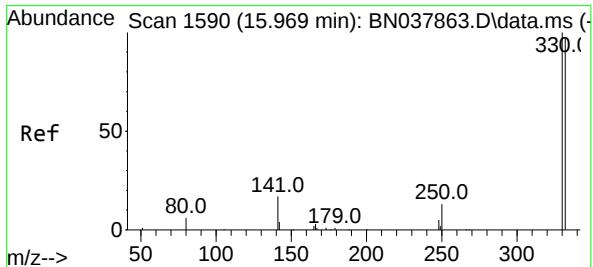
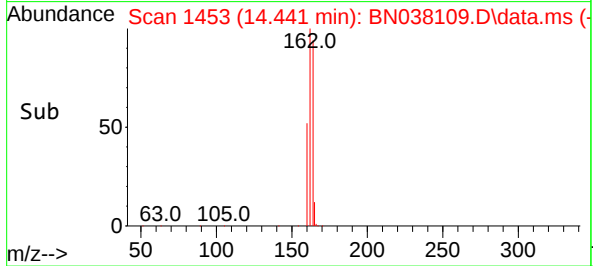
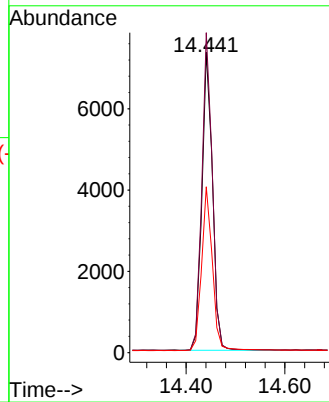
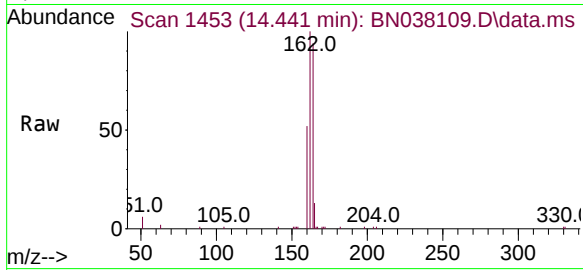




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

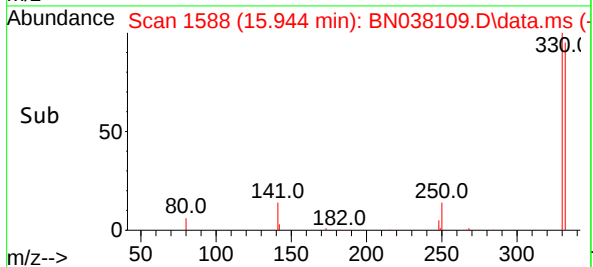
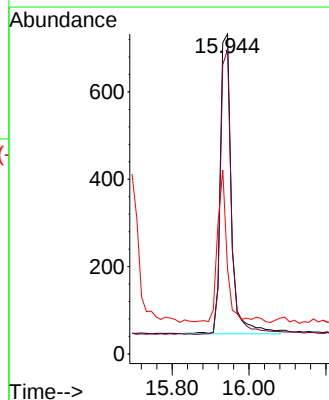
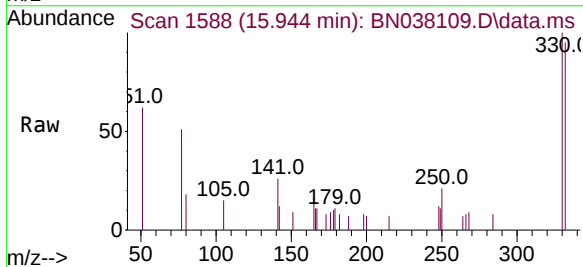
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

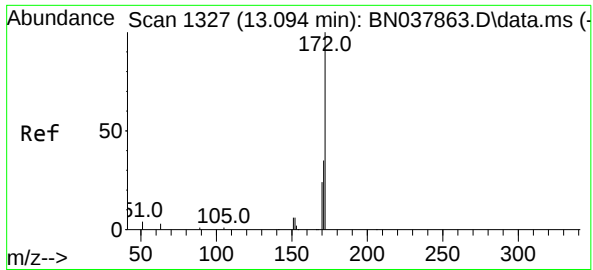
Tgt Ion:164 Resp: 10928
Ion Ratio Lower Upper
164 100
162 106.6 84.8 127.2
160 55.2 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:330 Resp: 1381
Ion Ratio Lower Upper
330 100
332 93.7 77.2 115.8
141 41.6 37.2 55.8

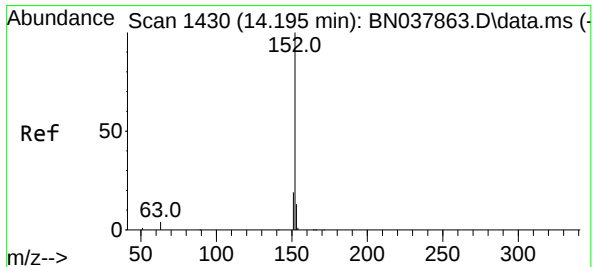
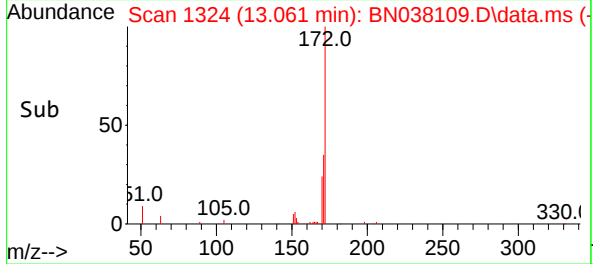
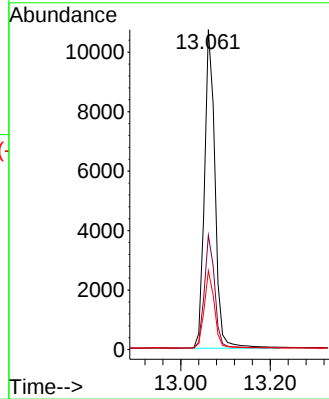
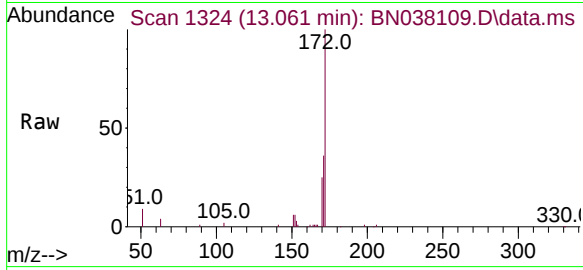




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.061 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

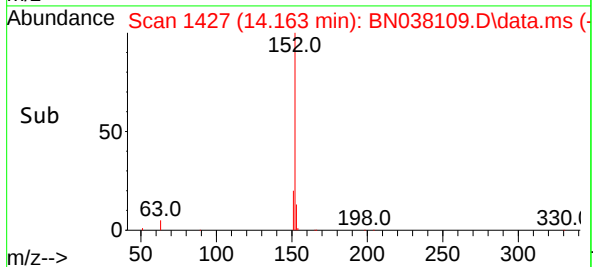
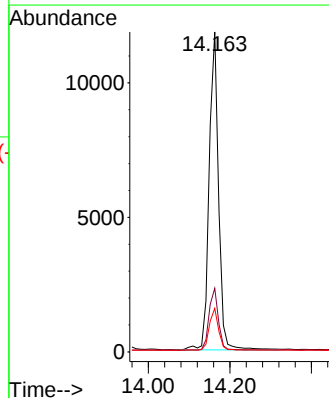
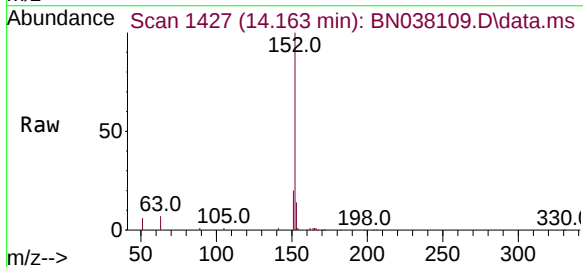
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

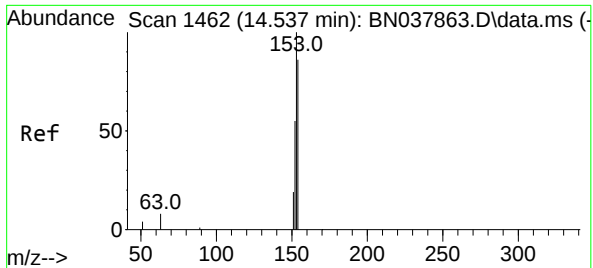
Tgt Ion:172 Resp: 16695
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 24.6 19.7 29.5



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.163 min Scan# 1427
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:152 Resp: 18878
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.8
153 13.0 10.5 15.7

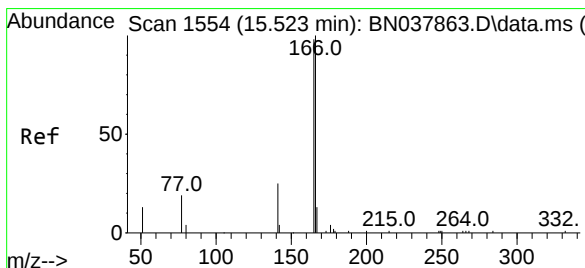
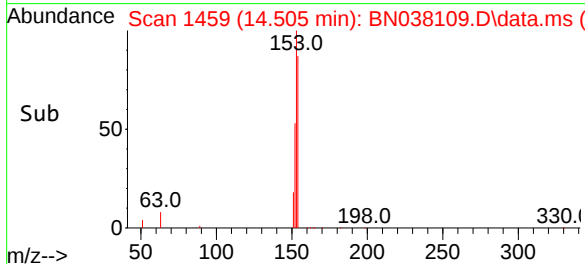
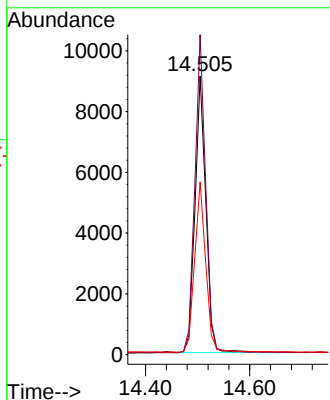
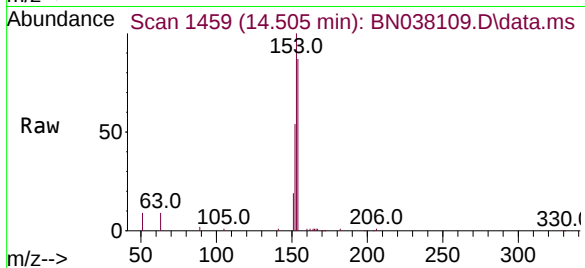




#17
Acenaphthene
Concen: 0.374 ng
RT: 14.505 min Scan# 1459
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

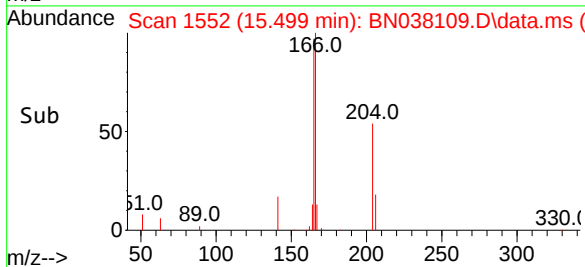
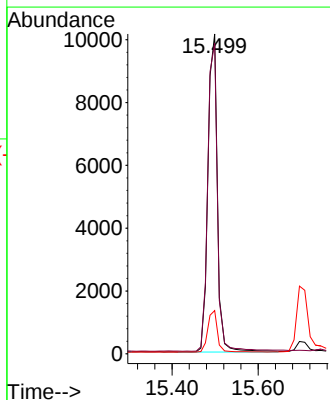
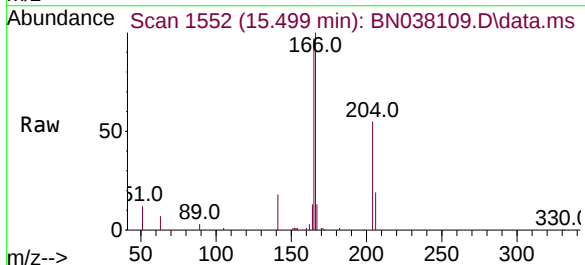
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

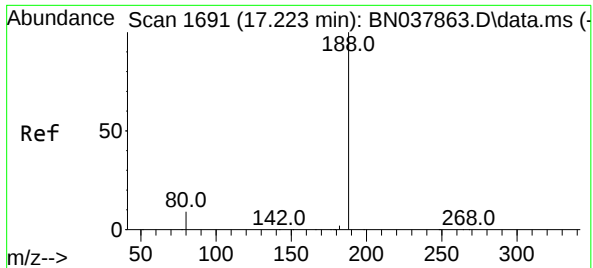
Tgt Ion:154 Resp: 13227
Ion Ratio Lower Upper
154 100
153 114.1 90.5 135.7
152 62.5 51.8 77.8



#18
Fluorene
Concen: 0.386 ng
RT: 15.499 min Scan# 1552
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:166 Resp: 16522
Ion Ratio Lower Upper
166 100
165 100.3 79.0 118.4
167 12.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

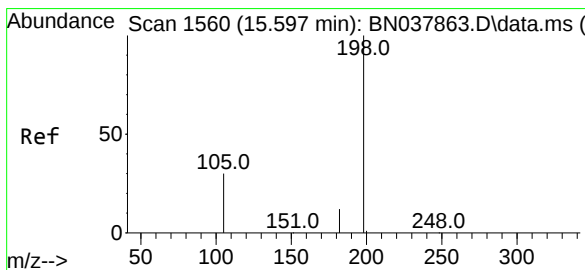
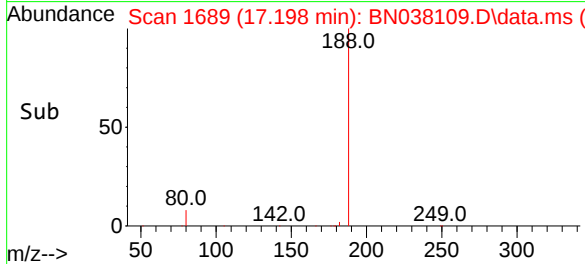
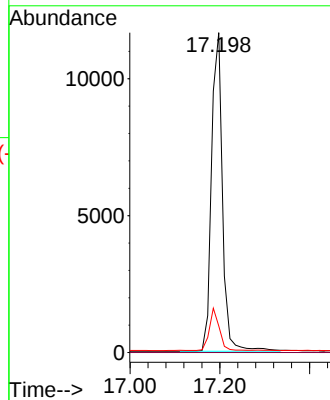
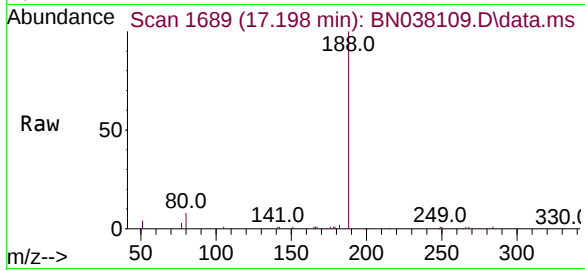
Tgt Ion:188 Resp: 19801

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.379 ng

RT: 15.572 min Scan# 1558

Delta R.T. -0.000 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

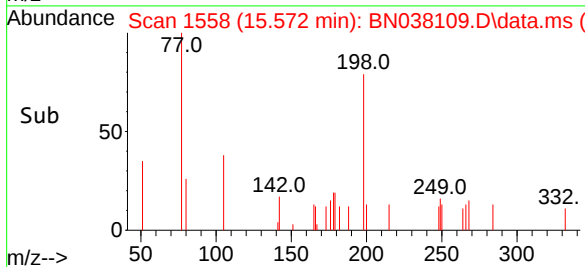
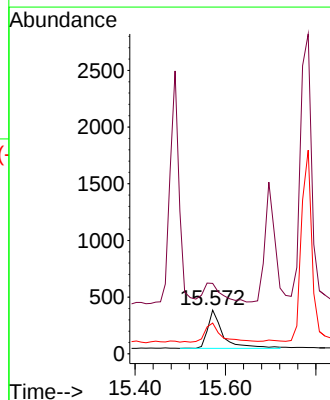
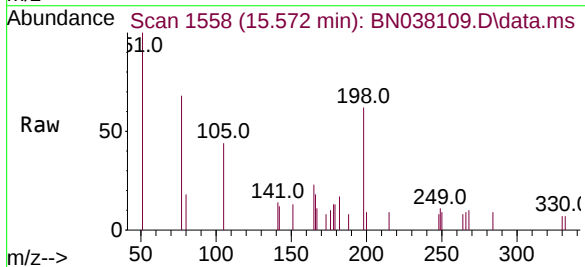
Tgt Ion:198 Resp: 792

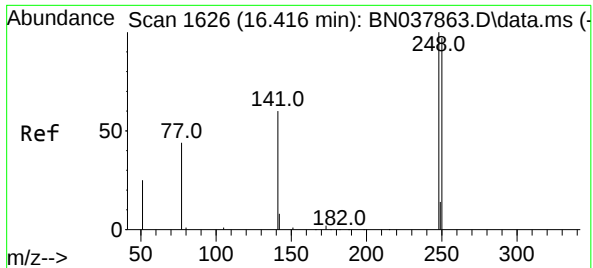
Ion Ratio Lower Upper

198 100

51 161.1 59.1 88.7#

105 70.2 41.3 61.9#

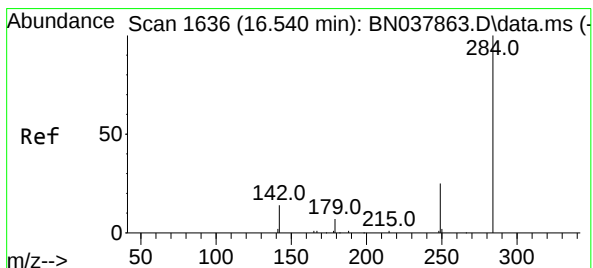
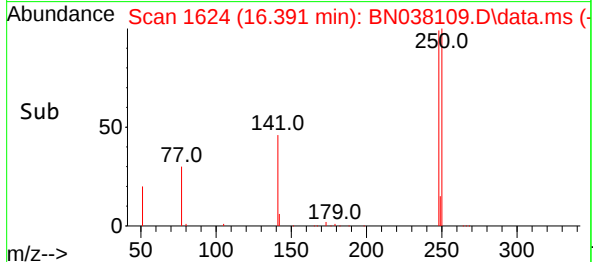
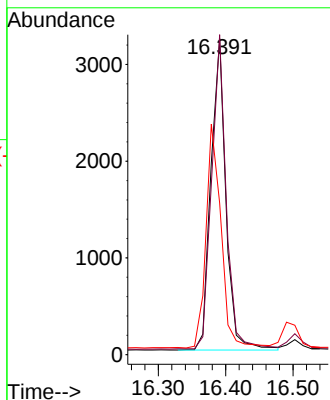
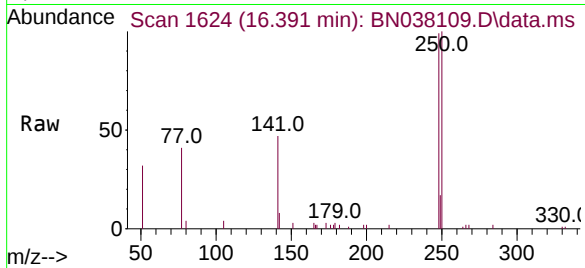




#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

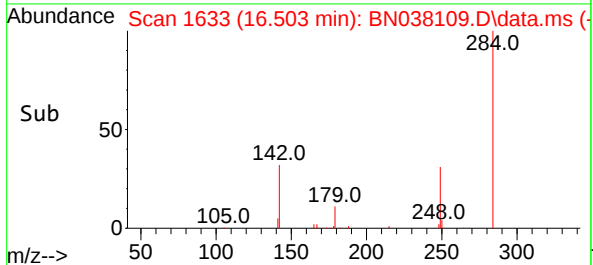
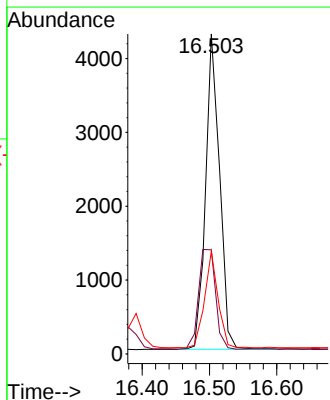
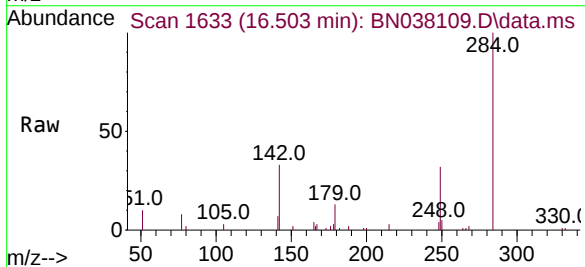
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

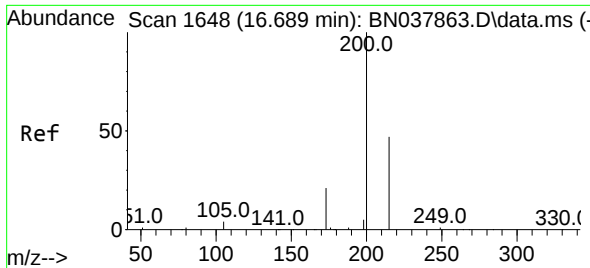
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.2	77.6	116.4
141	48.0	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	29.5	23.9	35.9

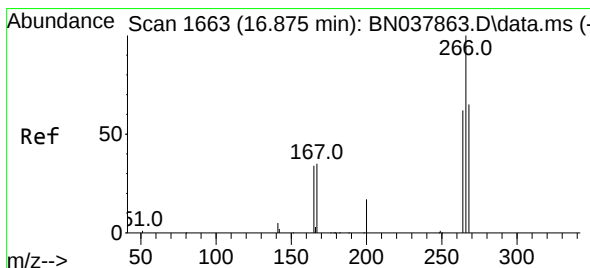
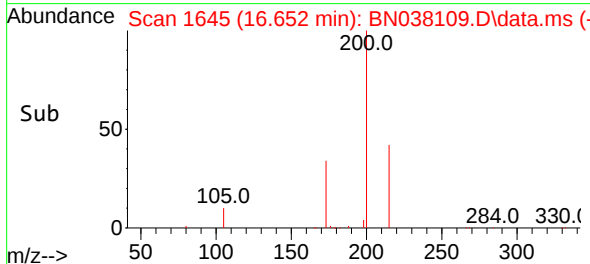
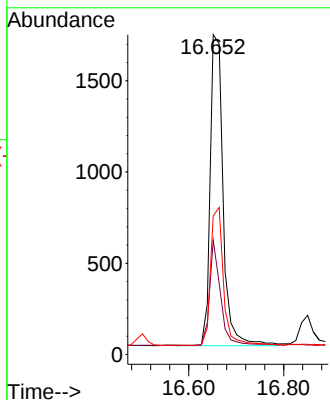
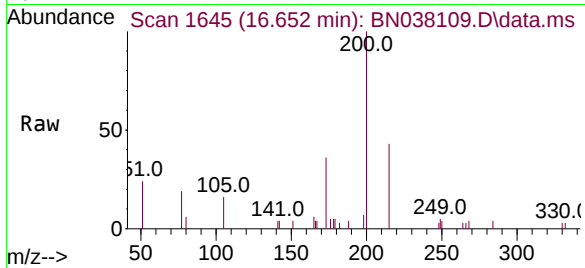




#23
Atrazine
Concen: 0.329 ng
RT: 16.652 min Scan# 1645
Delta R.T. -0.013 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

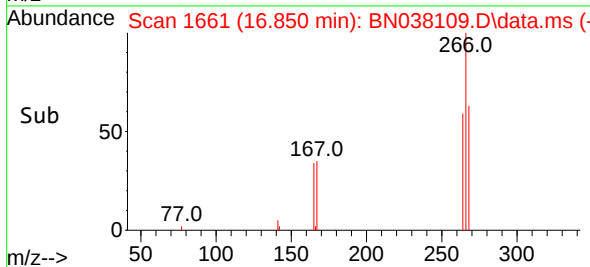
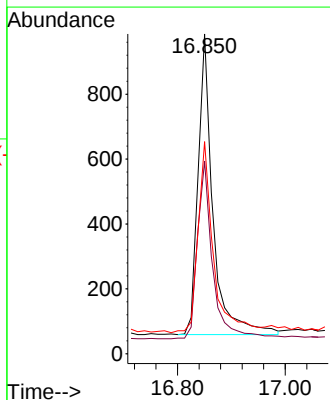
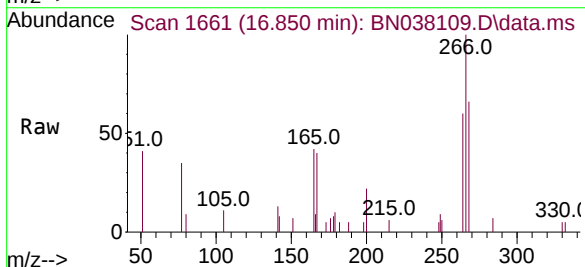
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

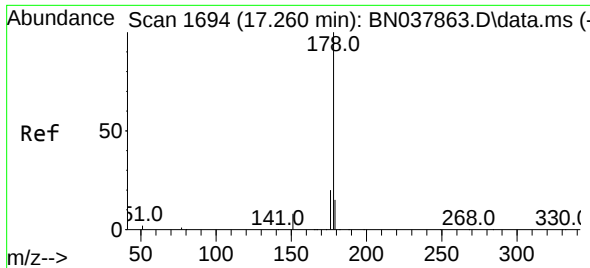
Tgt Ion	Ratio	Lower	Upper
200	100		
173	35.8	18.3	27.5#
215	43.4	38.6	58.0



#24
Pentachlorophenol
Concen: 0.330 ng
RT: 16.850 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.0	50.9	76.3
268	65.3	54.3	81.5

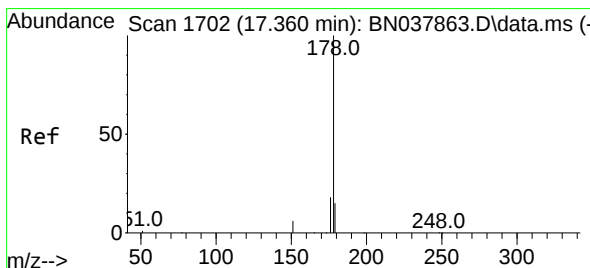
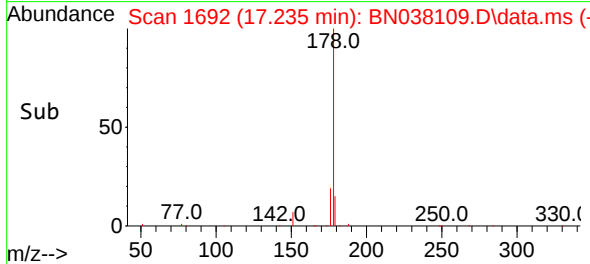
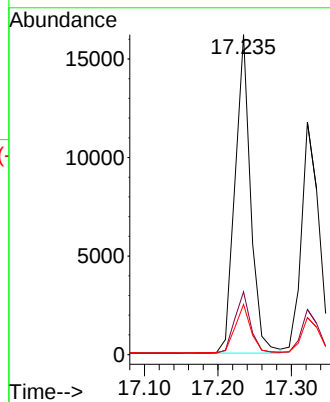
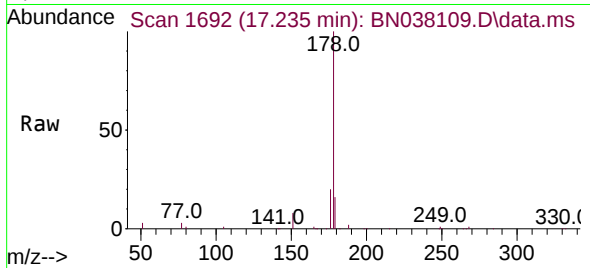




#25
Phenanthrene
Concen: 0.366 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

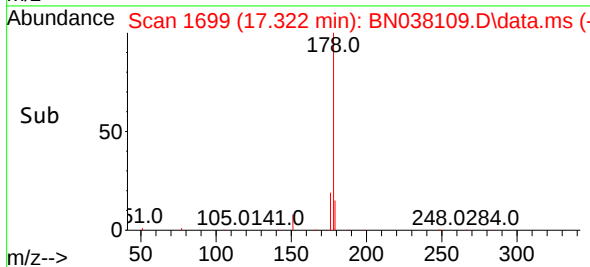
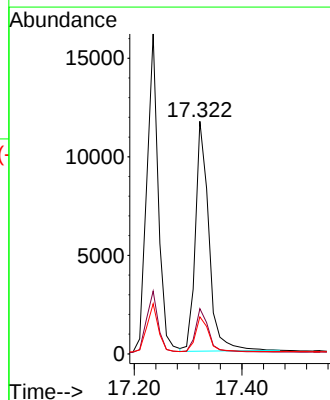
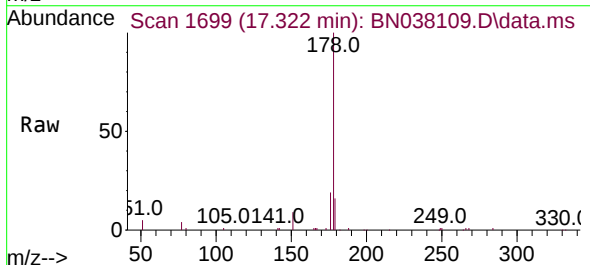
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

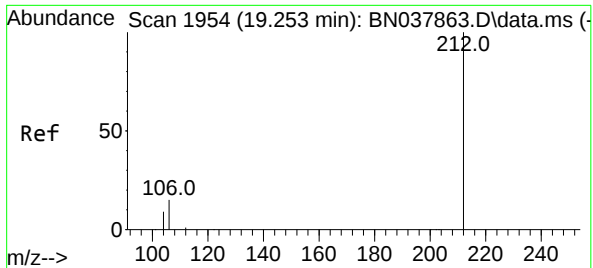
Tgt Ion:178 Resp: 23838
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.358 ng
RT: 17.322 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:178 Resp: 20233
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.4 12.3 18.5

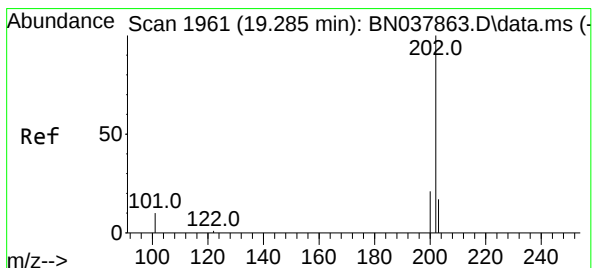
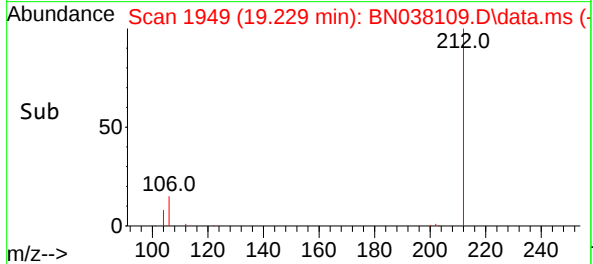
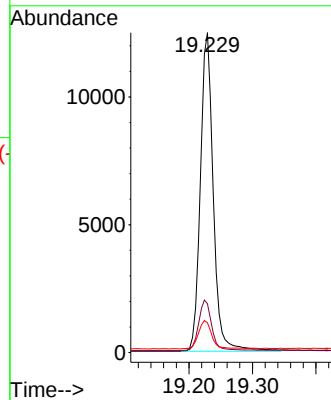
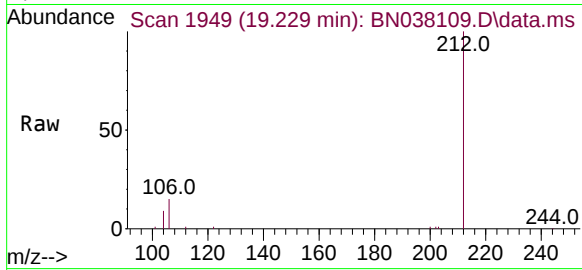




#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 19.229 min Scan# 1949
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

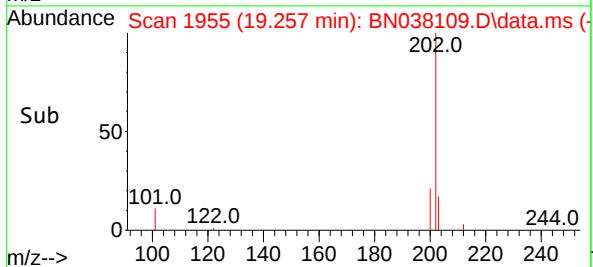
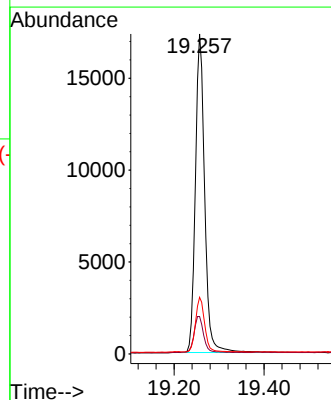
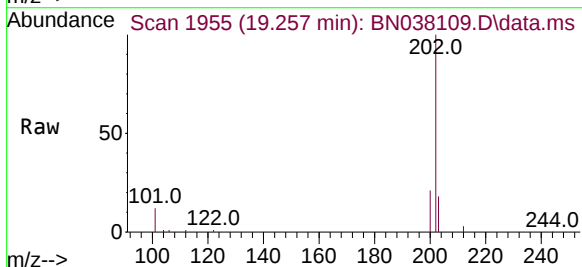
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

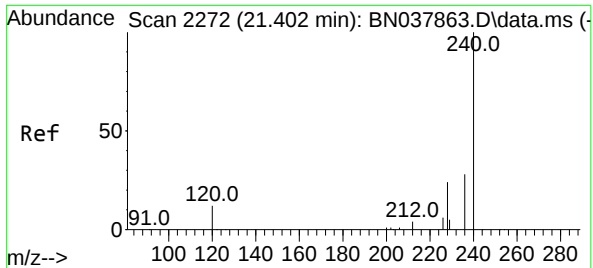
Tgt Ion:212 Resp: 17617
Ion Ratio Lower Upper
212 100
106 16.1 12.6 19.0
104 9.1 7.4 11.0



#28
Fluoranthene
Concen: 0.347 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.005 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:202 Resp: 24899
Ion Ratio Lower Upper
202 100
101 11.9 9.3 13.9
203 16.9 13.6 20.4

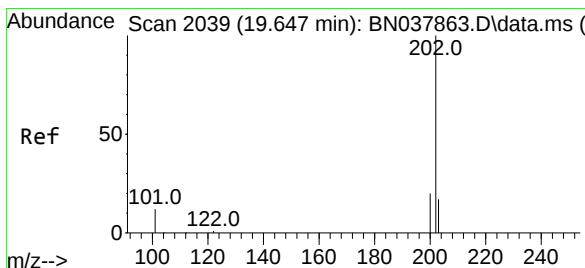
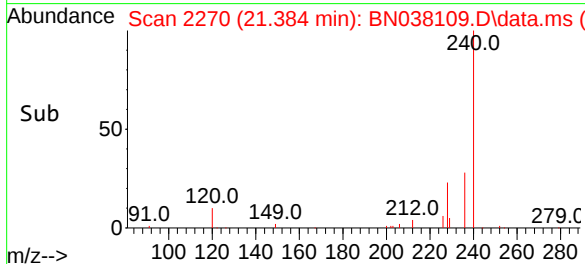
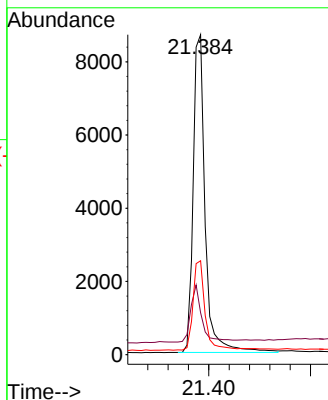
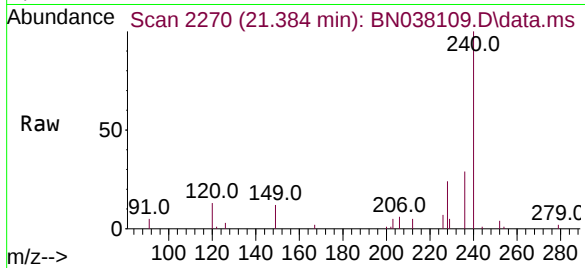




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

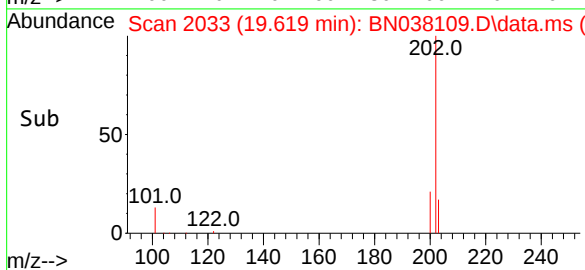
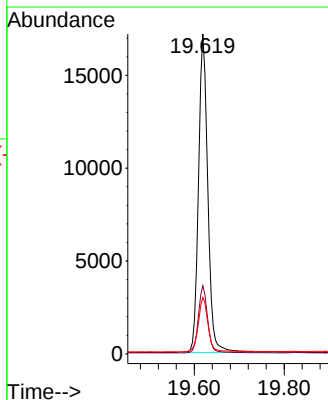
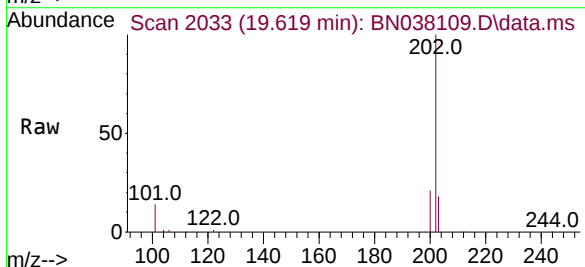
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

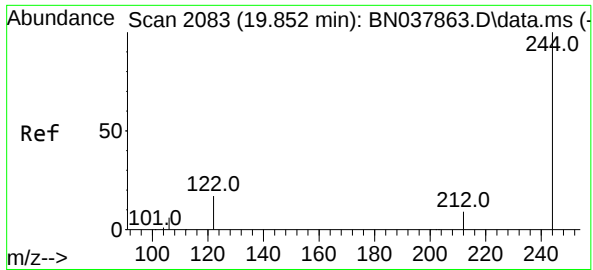
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	11.4	17.2
236	29.3	23.0	34.6



#30
Pyrene
Concen: 0.440 ng
RT: 19.619 min Scan# 2033
Delta R.T. -0.005 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.6	14.2	21.4

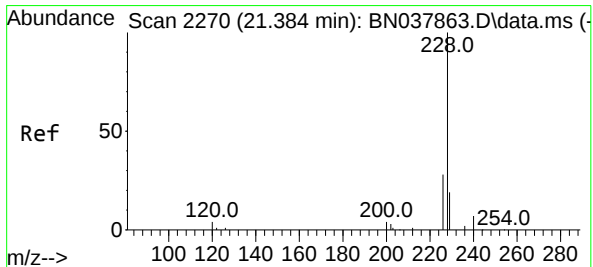
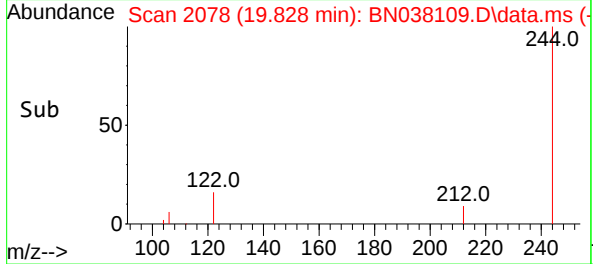
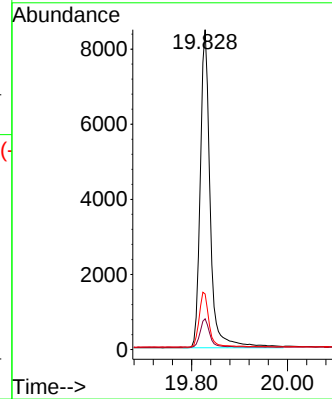
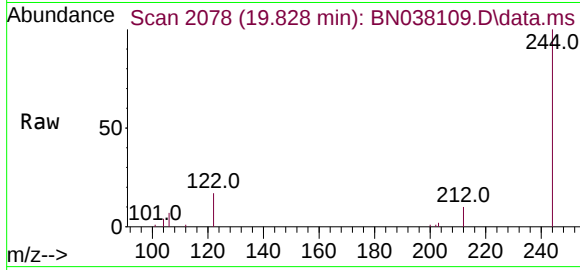




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.828 min Scan# 2083
Delta R.T. -0.005 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

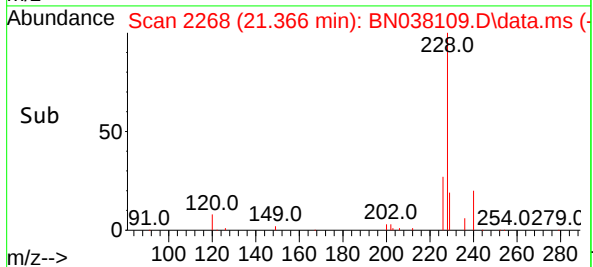
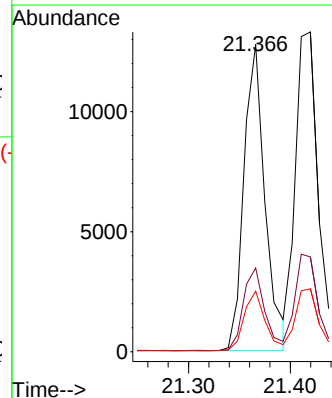
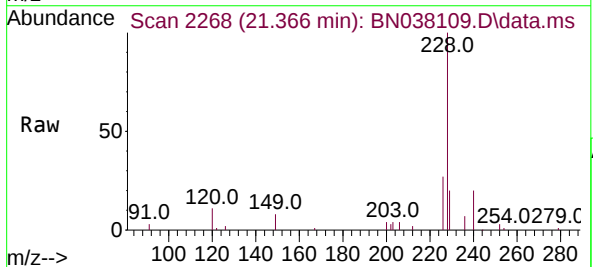
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

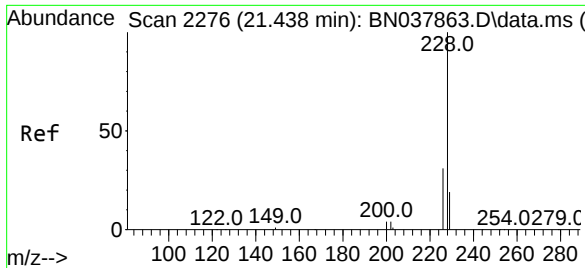
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	17.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.366 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.6	33.8
229	19.7	15.6	23.4





#33

Chrysene

Concen: 0.413 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

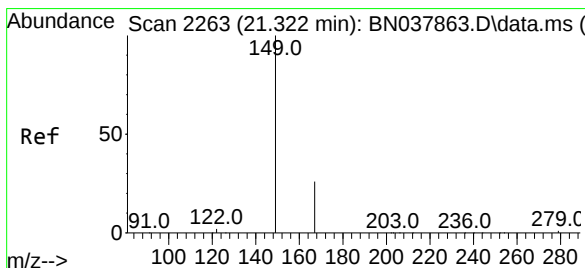
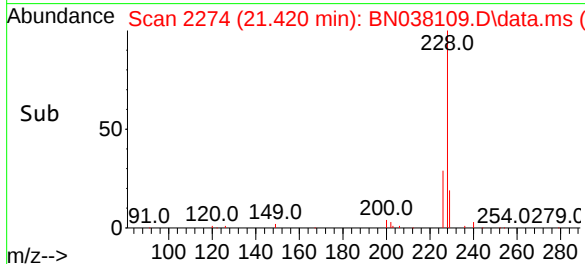
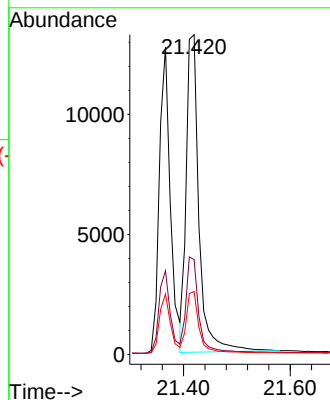
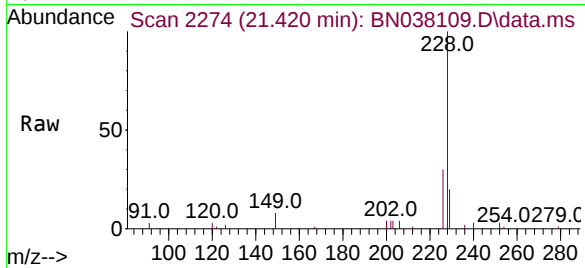
Tgt Ion:228 Resp: 22123

Ion Ratio Lower Upper

228 100

226 29.7 24.6 37.0

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.475 ng

RT: 21.303 min Scan# 2261

Delta R.T. -0.000 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

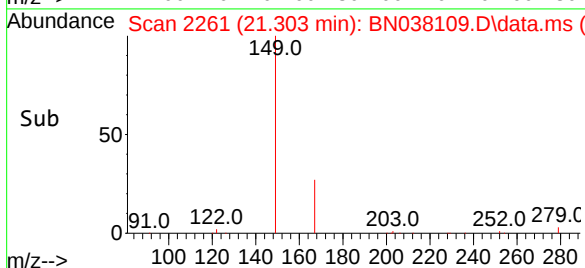
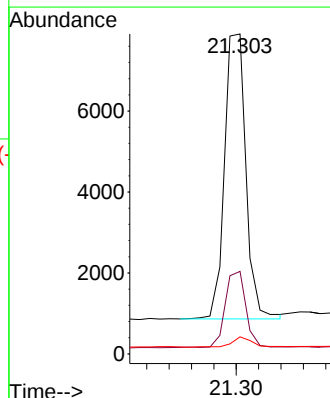
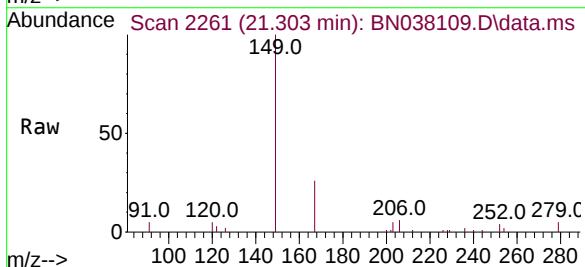
Tgt Ion:149 Resp: 9322

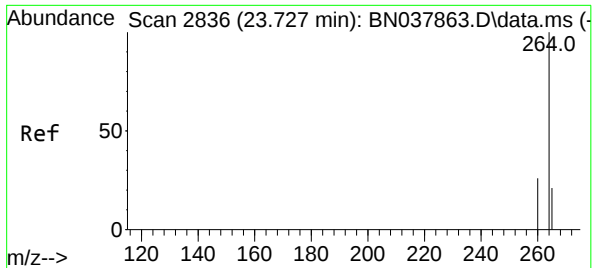
Ion Ratio Lower Upper

149 100

167 25.6 20.4 30.6

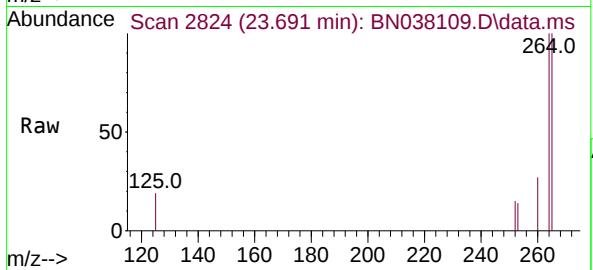
279 3.6 2.4 3.6#



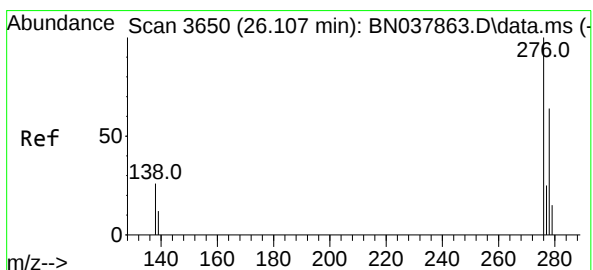
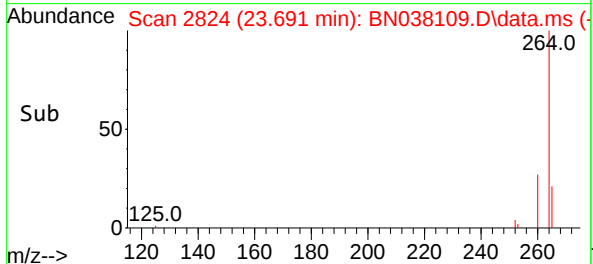
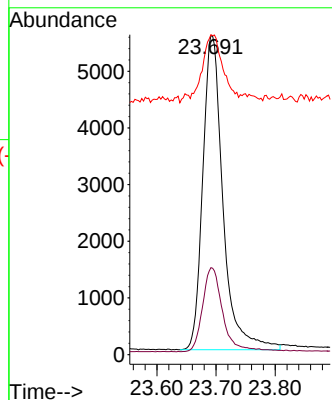


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.691 min Scan# 2836
Delta R.T. -0.009 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

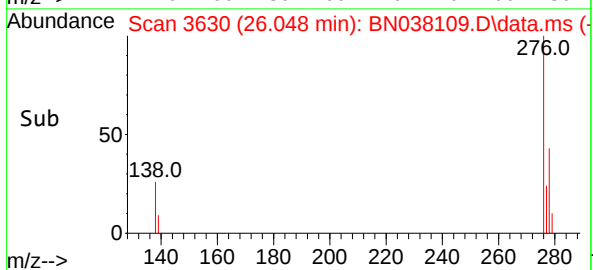
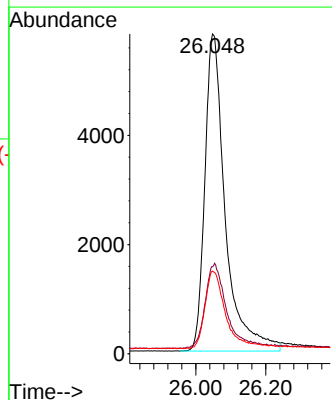
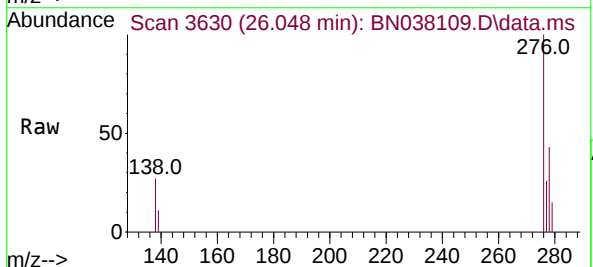


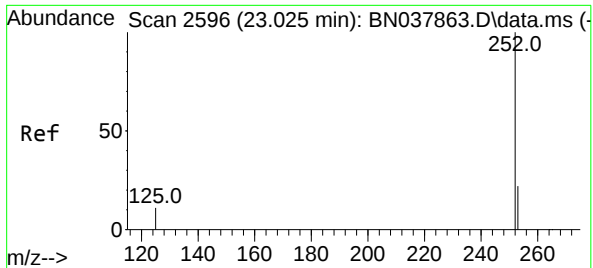
Tgt Ion:264 Resp: 13180
Ion Ratio Lower Upper
264 100
260 27.3 21.5 32.3
265 100.3 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.391 ng
RT: 26.048 min Scan# 3630
Delta R.T. -0.012 min
Lab File: BN038109.D
Acq: 20 Oct 2025 22:10

Tgt Ion:276 Resp: 23544
Ion Ratio Lower Upper
276 100
138 27.2 21.4 32.0
277 24.7 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.371 ng

RT: 22.996 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

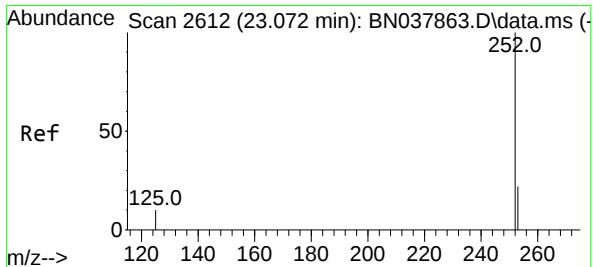
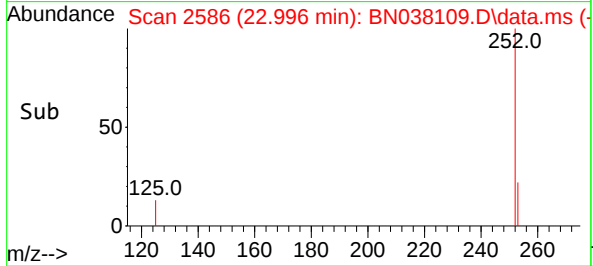
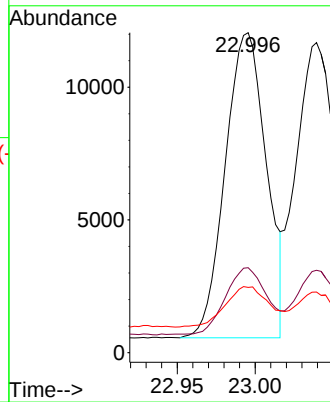
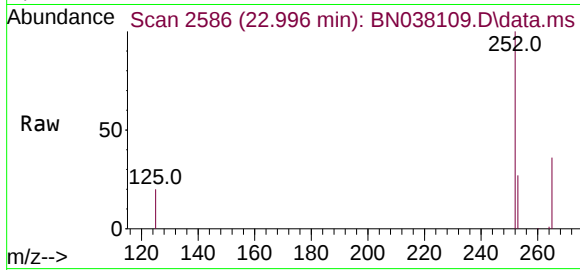
Tgt Ion:252 Resp: 21093

Ion Ratio Lower Upper

252 100

253 26.5 19.4 29.0

125 20.4 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.377 ng

RT: 23.039 min Scan# 2601

Delta R.T. -0.006 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

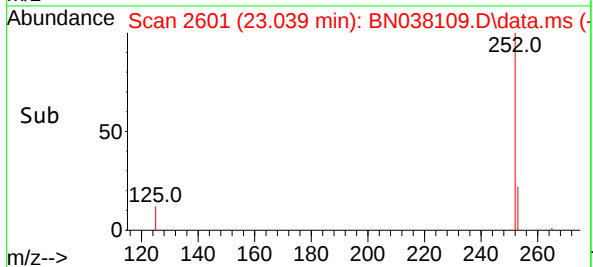
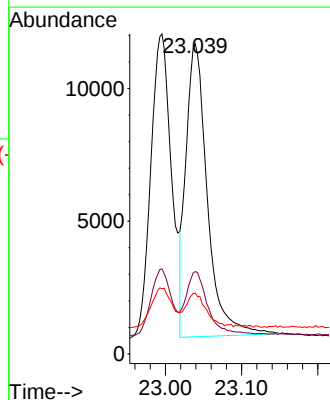
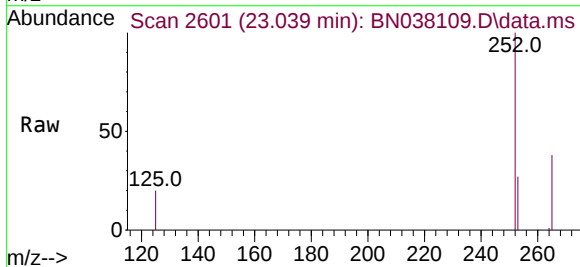
Tgt Ion:252 Resp: 21558

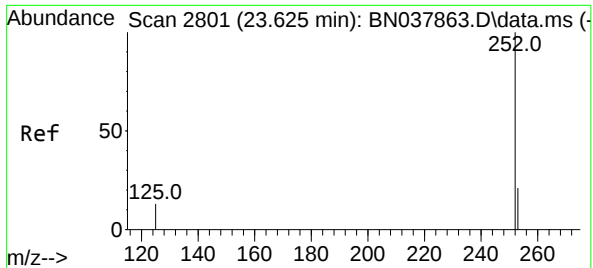
Ion Ratio Lower Upper

252 100

253 26.5 19.5 29.3

125 19.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

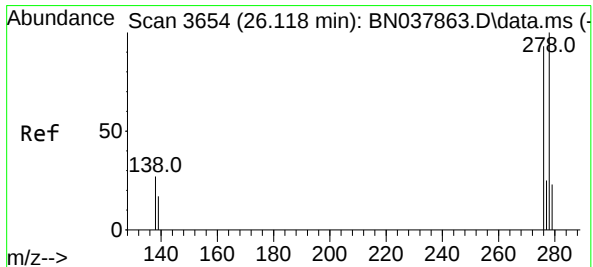
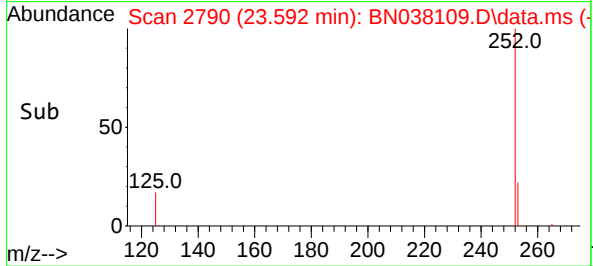
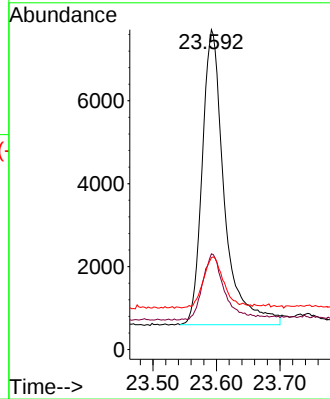
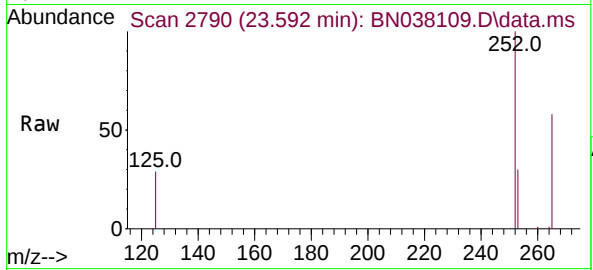
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	17197
Ion Ratio	Lower	Upper
252	100	
253	29.9	20.6 30.8
125	28.7	16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.354 ng

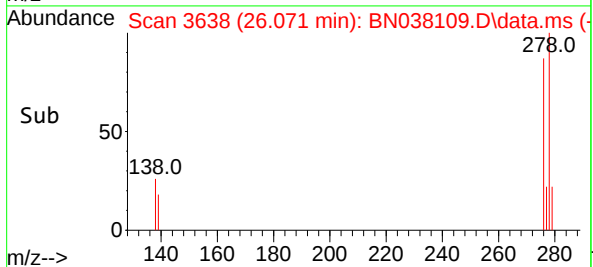
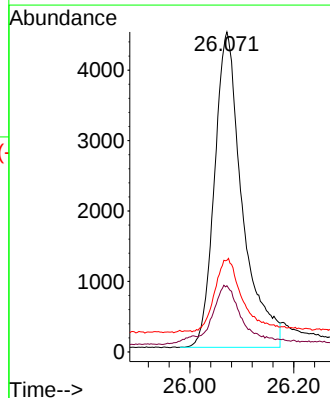
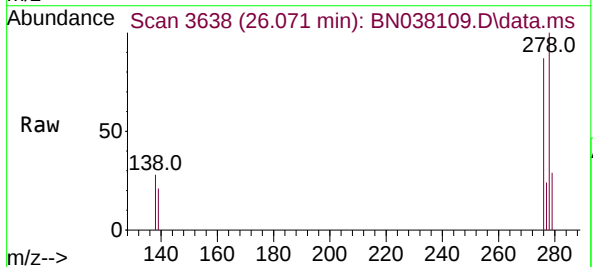
RT: 26.071 min Scan# 3638

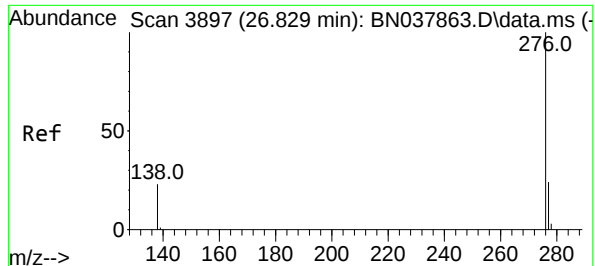
Delta R.T. -0.006 min

Lab File: BN038109.D

Acq: 20 Oct 2025 22:10

Tgt Ion:278	Resp:	16653
Ion Ratio	Lower	Upper
278	100	
139	20.7	15.4 23.2
279	28.6	20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.427 ng

RT: 26.770 min Scan# 38

Delta R.T. -0.009 min

Lab File: BN038109.D

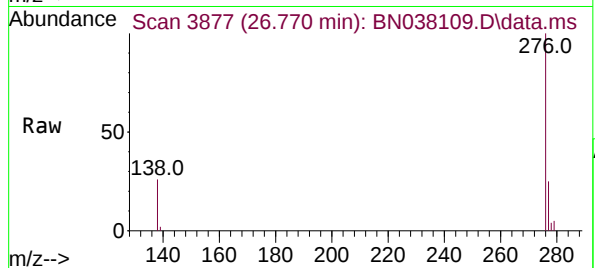
Acq: 20 Oct 2025 22:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



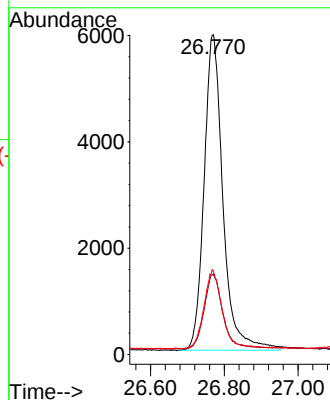
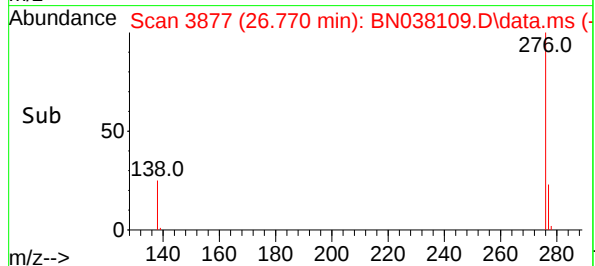
Tgt Ion:276 Resp: 21108

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.4

138 26.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
 Data File : BN038109.D
 Acq On : 20 Oct 2025 22:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 21 02:30:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:23:15 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	135	0.00
2	1,4-Dioxane	0.406	0.486	-19.7	161#	0.00
3	n-Nitrosodimethylamine	0.540	0.541	-0.2	142	0.00
4 S	2-Fluorophenol	0.913	0.912	0.1	144	0.00
5 S	Phenol-d6	1.199	1.015	15.3	123	0.00
6	bis(2-Chloroethyl)ether	1.113	1.077	3.2	135	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	132	0.00
8 S	Nitrobenzene-d5	0.305	0.273	10.5	125	0.00
9	Naphthalene	1.102	1.076	2.4	136	0.00
10	Hexachlorobutadiene	0.188	0.195	-3.7	142	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.519	6.7	137	0.00
12	2-Methylnaphthalene	0.720	0.670	6.9	133	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00
14 S	2,4,6-Tribromophenol	0.152	0.126	17.1	124	0.00
15 S	2-Fluorobiphenyl	1.638	1.528	6.7	130	0.00
16	Acenaphthylene	1.816	1.727	4.9	138	0.00
17	Acenaphthene	1.294	1.210	6.5	134	0.00
18	Fluorene	1.565	1.512	3.4	138	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	124	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.040	29.8#	114	0.00
21	4-Bromophenyl-phenylether	0.261	0.252	3.4	128	0.00
22	Hexachlorobenzene	0.316	0.311	1.6	127	0.00
23	Atrazine	0.199	0.163	18.1	118	-0.01
24	Pentachlorophenol	0.108	0.090	16.7	121	0.00
25	Phenanthrene	1.316	1.204	8.5	122	0.00
26	Anthracene	1.142	1.022	10.5	124	0.00
27 SURR	Fluoranthene-d10	1.006	0.890	11.5	125	0.00
28	Fluoranthene	1.450	1.257	13.3	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	1.579	1.736	-9.9	119	0.00
31 S	Terphenyl-d14	0.797	0.855	-7.3	119	0.00
32	Benzo(a)anthracene	1.398	1.294	7.4	104	0.00
33	Chrysene	1.512	1.559	-3.1	111	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.657	-18.8	141	0.00
35 I	Perylene-d12	1.000	1.000	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.786	2.3	113	-0.01
37	Benzo(b)fluoranthene	1.725	1.600	7.2	102	0.00
38	Benzo(k)fluoranthene	1.736	1.636	5.8	107	0.00
39 C	Benzo(a)pyrene	1.364	1.305	4.3	111	0.00
40	Dibenzo(a,h)anthracene	1.427	1.264	11.4	102	0.00
41	Benzo(g,h,i)perylene	1.499	1.602	-6.9	120	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038109.D
Acq On : 20 Oct 2025 22:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 21 02:30:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 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	135	0.00
2	1,4-Dioxane	0.400	0.479	-19.7	161	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	142	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	144	0.00
5 S	Phenol-d6	0.400	0.339	15.3	123	0.00
6	bis(2-Chloroethyl)ether	0.400	0.387	3.3	135	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	132	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	125	0.00
9	Naphthalene	0.400	0.391	2.3	136	0.00
10	Hexachlorobutadiene	0.400	0.415	-3.7	142	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	137	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	133	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	133	0.00
14 S	2,4,6-Tribromophenol	0.400	0.333	16.8	124	0.00
15 S	2-Fluorobiphenyl	0.400	0.373	6.8	130	0.00
16	Acenaphthylene	0.400	0.380	5.0	138	0.00
17	Acenaphthene	0.400	0.374	6.5	134	0.00
18	Fluorene	0.400	0.386	3.5	138	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	124	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.379	5.3	114	0.00
21	4-Bromophenyl-phenylether	0.400	0.387	3.3	128	0.00
22	Hexachlorobenzene	0.400	0.393	1.8	127	0.00
23	Atrazine	0.400	0.329	17.8	118	-0.01
24	Pentachlorophenol	0.400	0.330	17.5	121	0.00
25	Phenanthrene	0.400	0.366	8.5	122	0.00
26	Anthracene	0.400	0.358	10.5	124	0.00
27 SURR	Fluoranthene-d10	0.400	0.354	11.5	125	0.00
28	Fluoranthene	0.400	0.347	13.3	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.440	-10.0	119	0.00
31 S	Terphenyl-d14	0.400	0.429	-7.2	119	0.00
32	Benzo(a)anthracene	0.400	0.370	7.5	104	0.00
33	Chrysene	0.400	0.413	-3.2	111	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.475	-18.7	141	0.00
35 I	Perylene-d12	0.400	0.400	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.391	2.3	113	-0.01
37	Benzo(b)fluoranthene	0.400	0.371	7.3	102	0.00
38	Benzo(k)fluoranthene	0.400	0.377	5.8	107	0.00
39 C	Benzo(a)pyrene	0.400	0.383	4.3	111	0.00
40	Dibenzo(a,h)anthracene	0.400	0.354	11.5	102	0.00
41	Benzo(g,h,i)perylene	0.400	0.427	-6.7	120	0.00

(#) = Out of Range

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



QC SAMPLE DATA

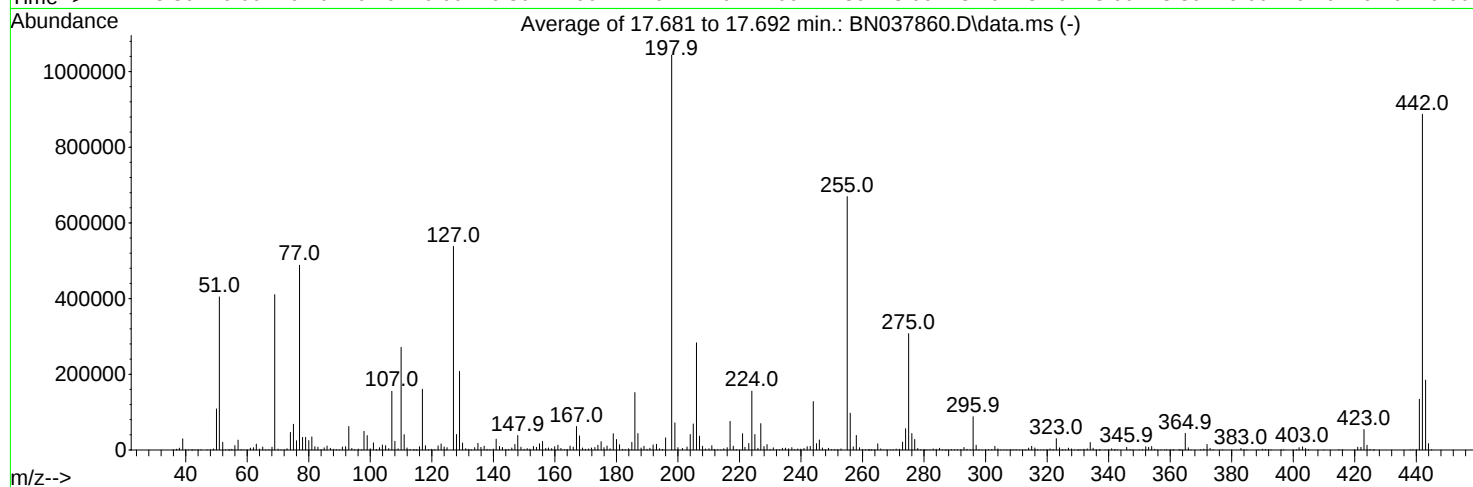
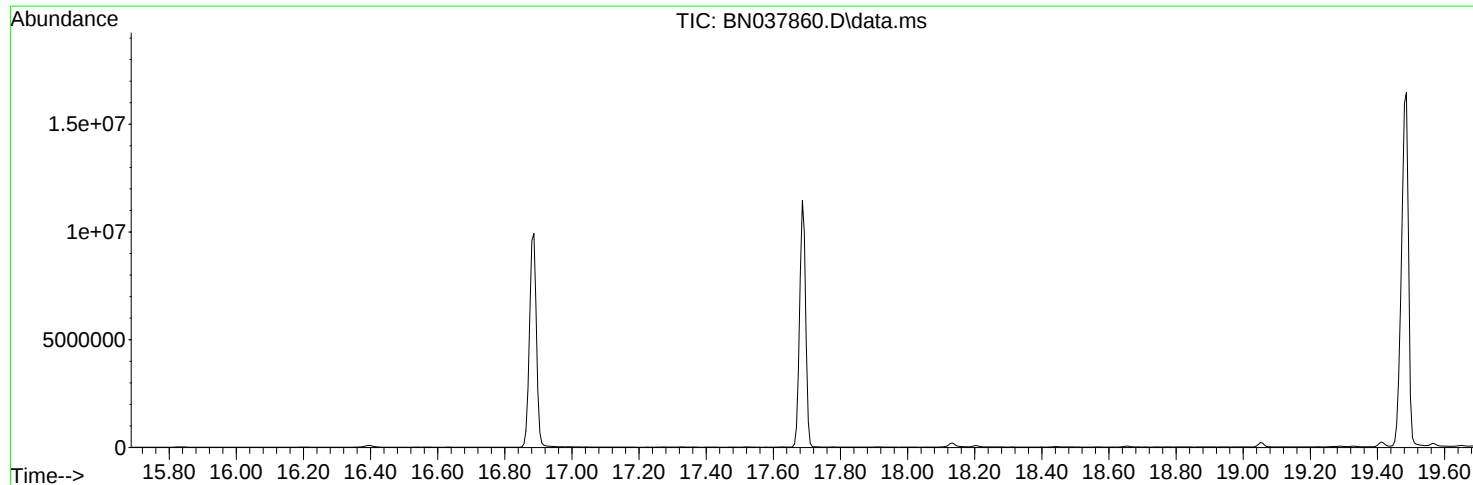
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Sep 23 17:30:29 2025



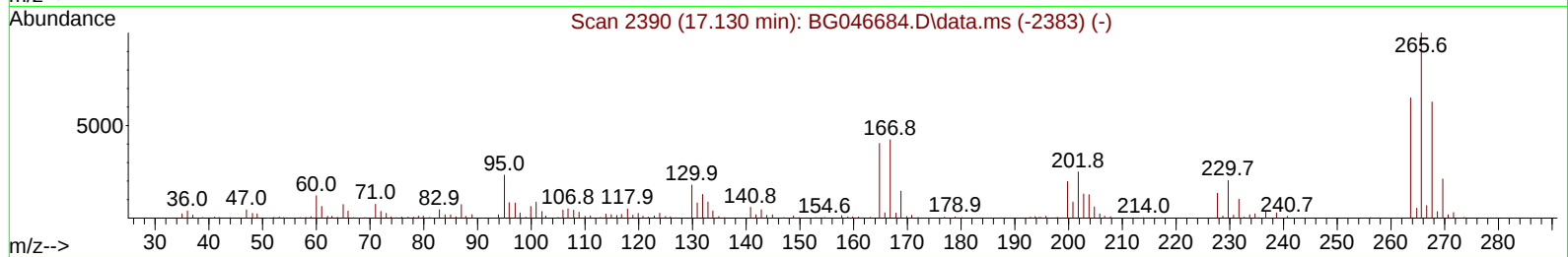
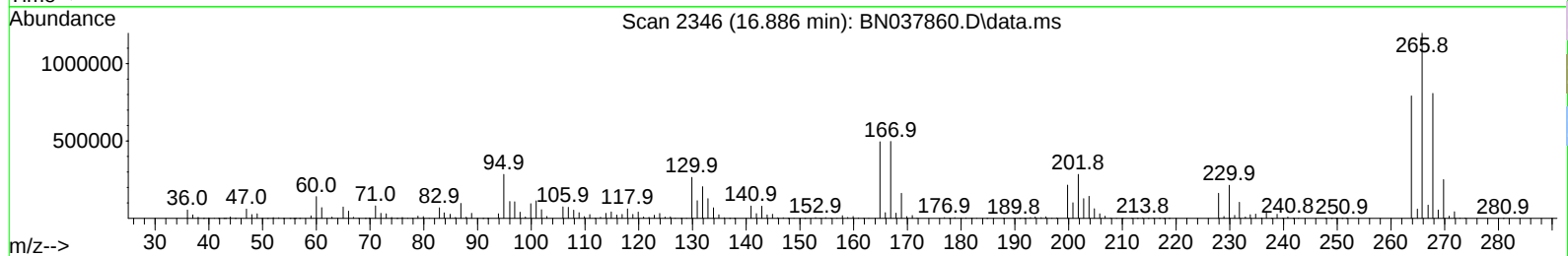
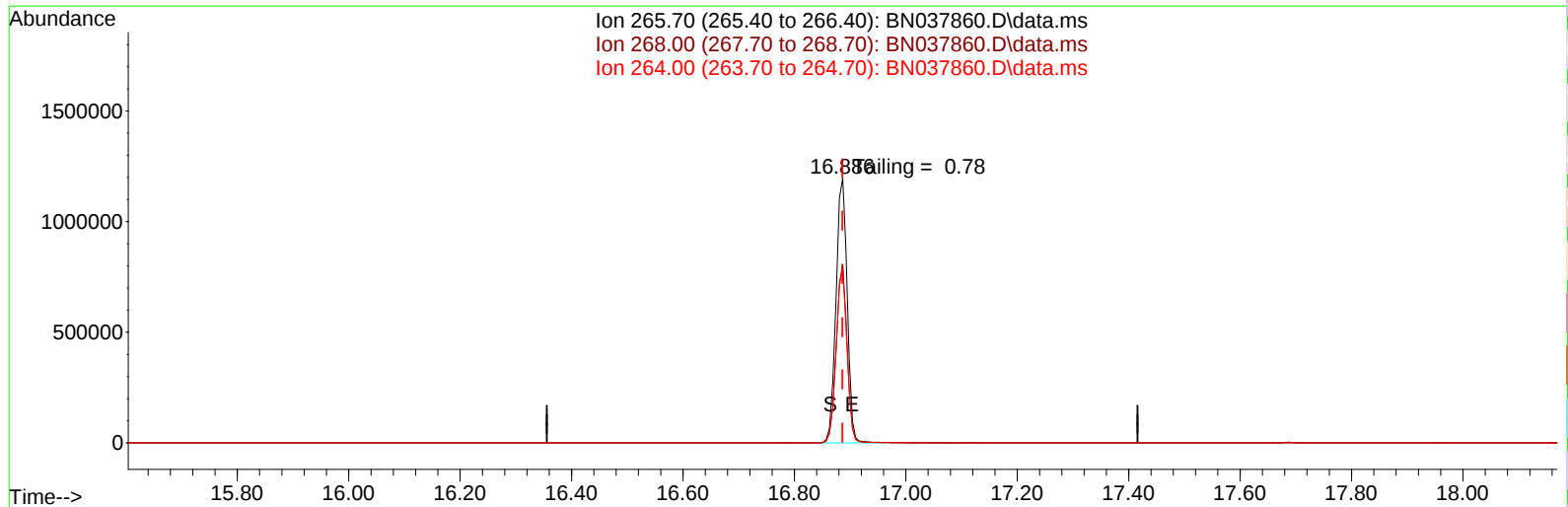
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	7592	PASS
69	69	100	100	100.0	410472	PASS
70	69	0.00	2	0.6	2535	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1043541	PASS
199	198	5	9	6.9	71928	PASS
365	198	1	100	4.2	43627	PASS
441	443	0.01	150	72.6	133917	PASS
442	442	100	100	100.0	886933	PASS
443	442	15	24	20.8	184525	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037860.D\data.ms

(70) Pentachlorophenol (C)

16.886min (+ 0.001) 30744.23 ng

response 1679260

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.46
264.00	61.60	66.17
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

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Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

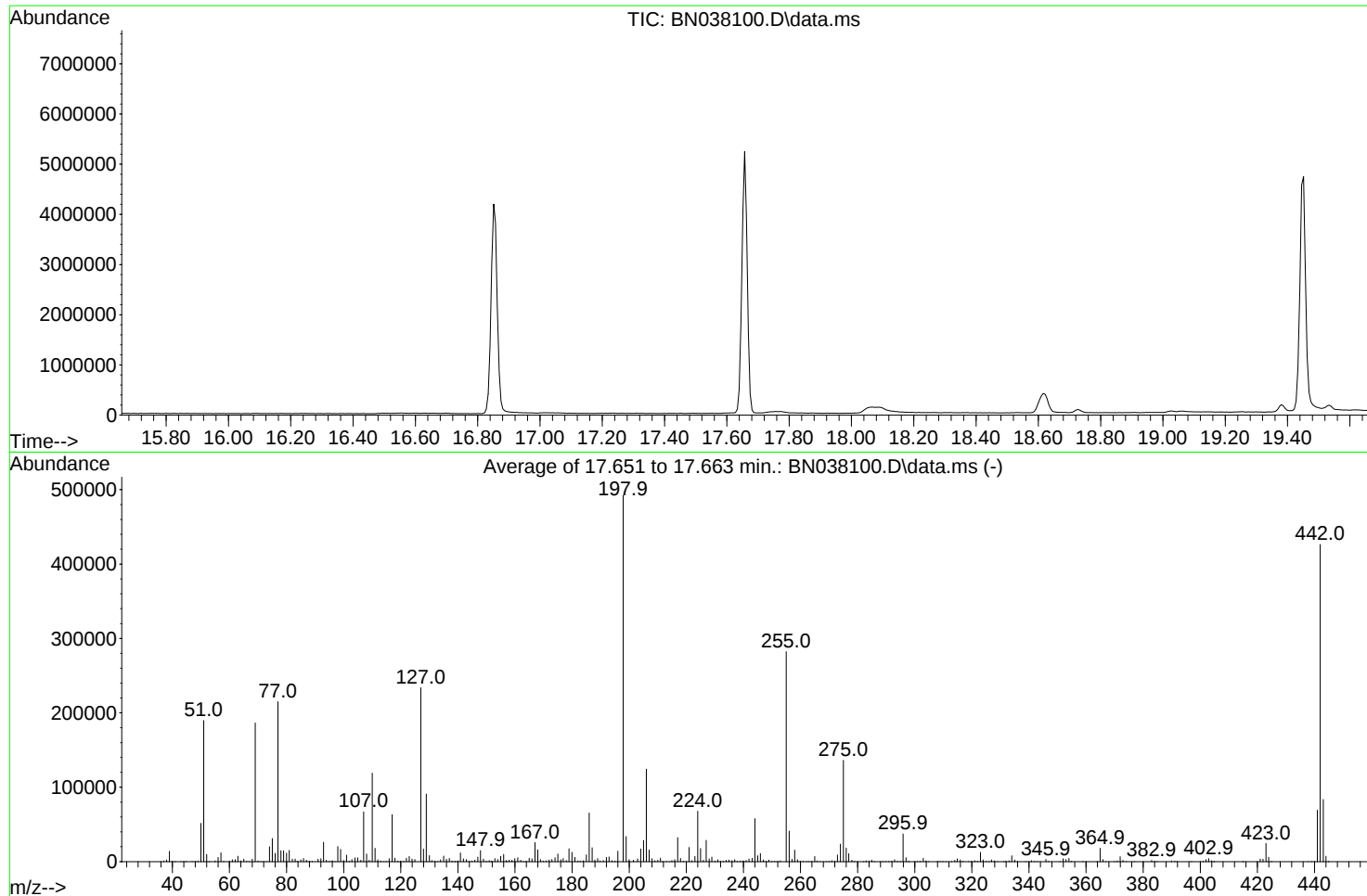
Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	<u>BN037860.D</u>
Compound Name	Response	Retention Time
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11961	4317957	0.28

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038100.D
Acq On : 20 Oct 2025 16:41
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-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 21 02:23:15 2025



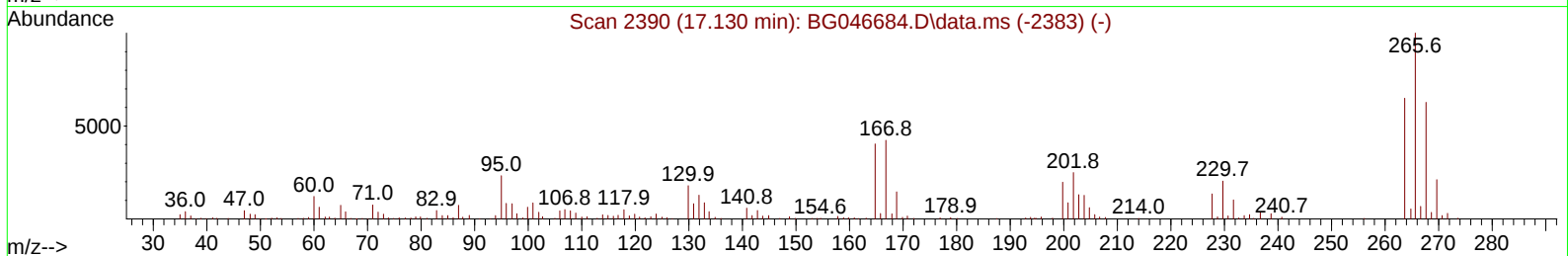
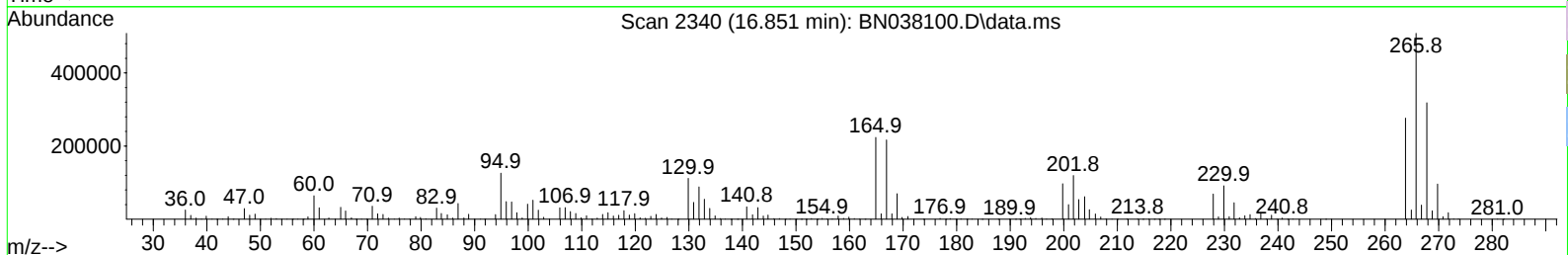
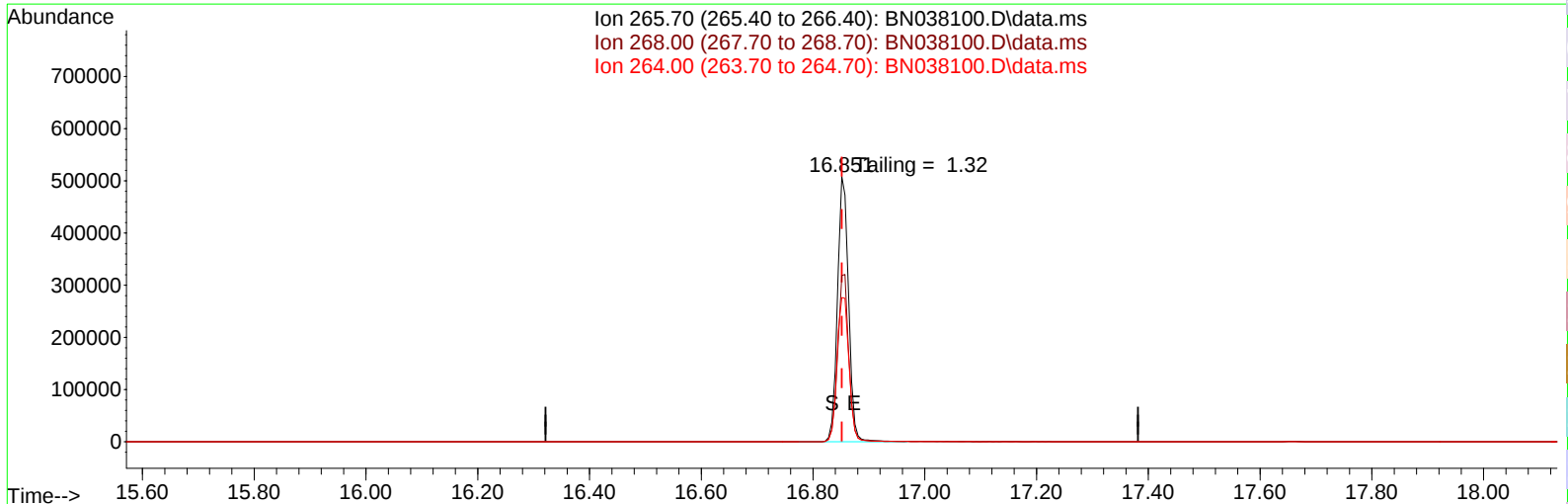
AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2469

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3346	PASS
69	69	100	100	100.0	186412	PASS
70	69	0.00	2	0.5	886	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	492309	PASS
199	198	5	9	6.8	33669	PASS
365	198	1	100	3.6	17917	PASS
441	443	0.01	150	82.8	69120	PASS
442	442	100	100	100.0	426304	PASS
443	442	15	24	19.6	83453	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038100.D
Acq On : 20 Oct 2025 16:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 20 18:28:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 18:27:35 2025
Response via : Initial Calibration



TIC: BN038100.D\data.ms

(70) Pentachlorophenol (C)

16.851min (0.000) 277.76 ng

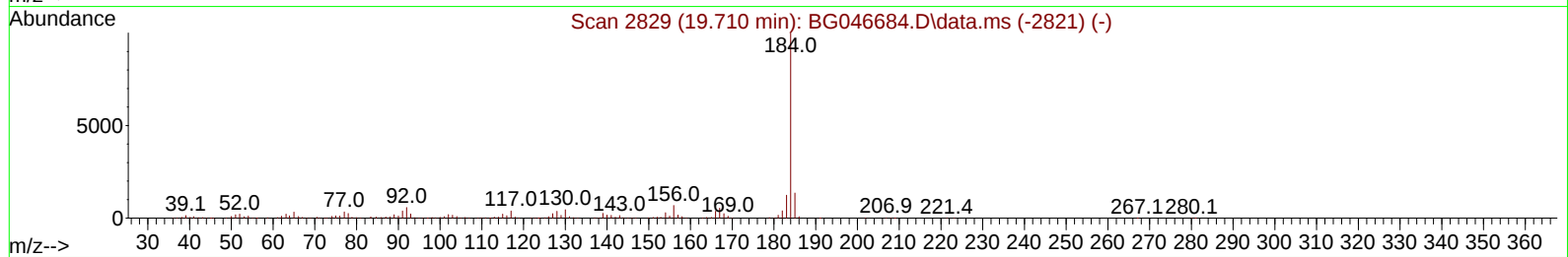
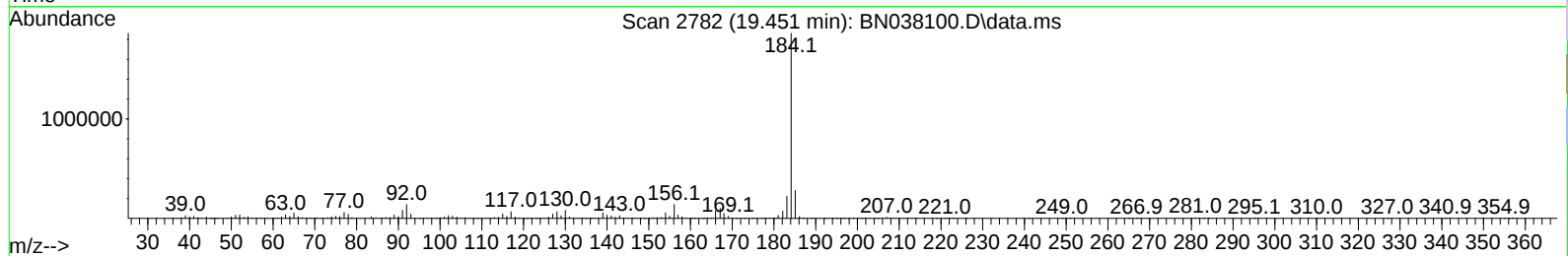
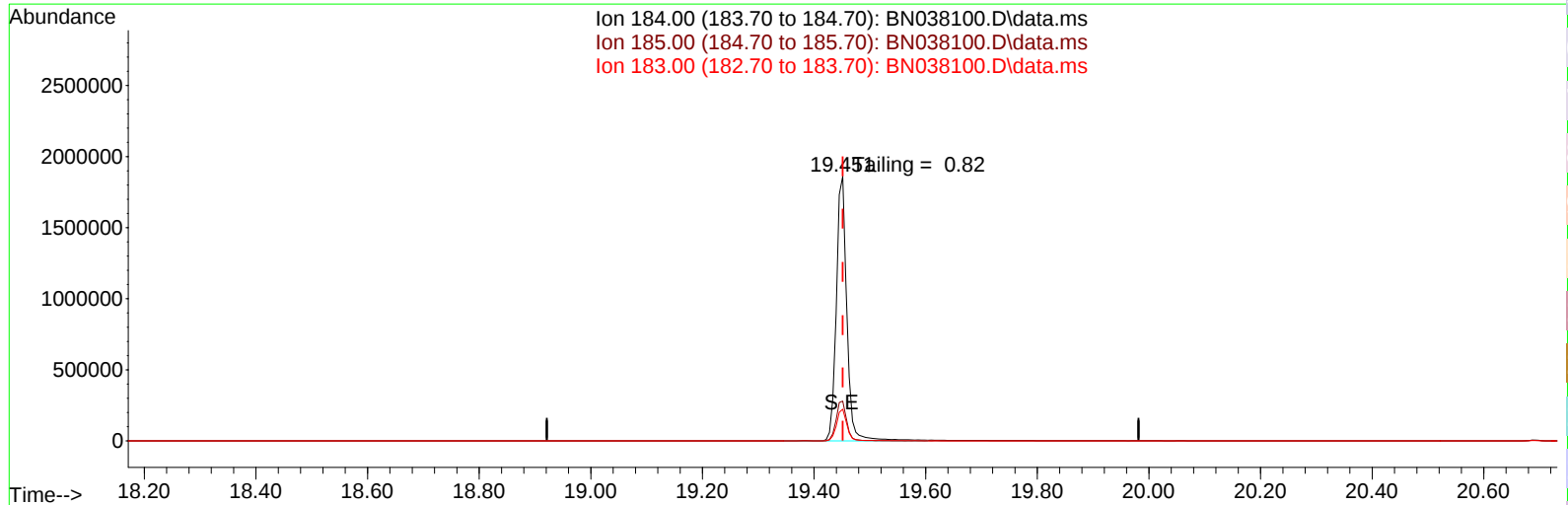
response 700210

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.64
264.00	61.60	54.39
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038100.D
Acq On : 20 Oct 2025 16:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 20 18:28:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 18:27:35 2025
Response via : Initial Calibration



TIC: BN038100.D\data.ms

(77) Benzidine

19.451min (0.000) 0.00 ng

response 2449641

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.05
183.00	13.20	12.03
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/20/2025	BNA_N	<u>BN038100.D</u>
Compound Name	Response	Retention Time
DDT	1547774	20.692
DDD	8872	20.224
DDE	1157	19.745
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10029	1557803	0.64



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB170167BL		SDG No.:	Q3371
Lab Sample ID:	PB170167BL		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :		Prep Date: 10/20/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	10/20/25 17:56	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.34			30 - 150		85%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			30 - 150		83%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			55 - 111		90%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.39			53 - 106		98%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			58 - 132		113%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	8490								
1146-65-2	Naphthalene-d8	21900								
15067-26-2	Acenaphthene-d10	10400								
1517-22-2	Phenanthrene-d10	17200								
1719-03-5	Chrysene-d12	12300								
1520-96-3	Perylene-d12	12500								

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\BN102025\
Data File : BN038102.D
Acq On : 20 Oct 2025 17:56
Operator : RC/JU
Sample : PB170167BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170167BL

Quant Time: Oct 20 18:21:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8486	0.400	ng	-0.04
7) Naphthalene-d8	10.594	136	21914	0.400	ng	-0.03
13) Acenaphthene-d10	14.452	164	10397	0.400	ng	-0.02
19) Phenanthrene-d10	17.198	188	17174	0.400	ng	#-0.02
29) Chrysene-d12	21.384	240	12295	0.400	ng	#-0.02
35) Perylene-d12	23.701	264	12453	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	6261	0.323	ng	-0.03
5) Phenol-d6	6.944	99	6738	0.265	ng	-0.03
8) Nitrobenzene-d5	8.939	82	6014	0.360	ng	-0.03
11) 2-Methylnaphthalene-d10	12.187	152	10334	0.339	ng	-0.03
14) 2,4,6-Tribromophenol	15.957	330	297	0.075	ng	-0.01
15) 2-Fluorobiphenyl	13.073	172	16676	0.392	ng	-0.02
27) Fluoranthene-d10	19.234	212	14269	0.330	ng	-0.02
31) Terphenyl-d14	19.829	244	11129	0.454	ng	-0.02

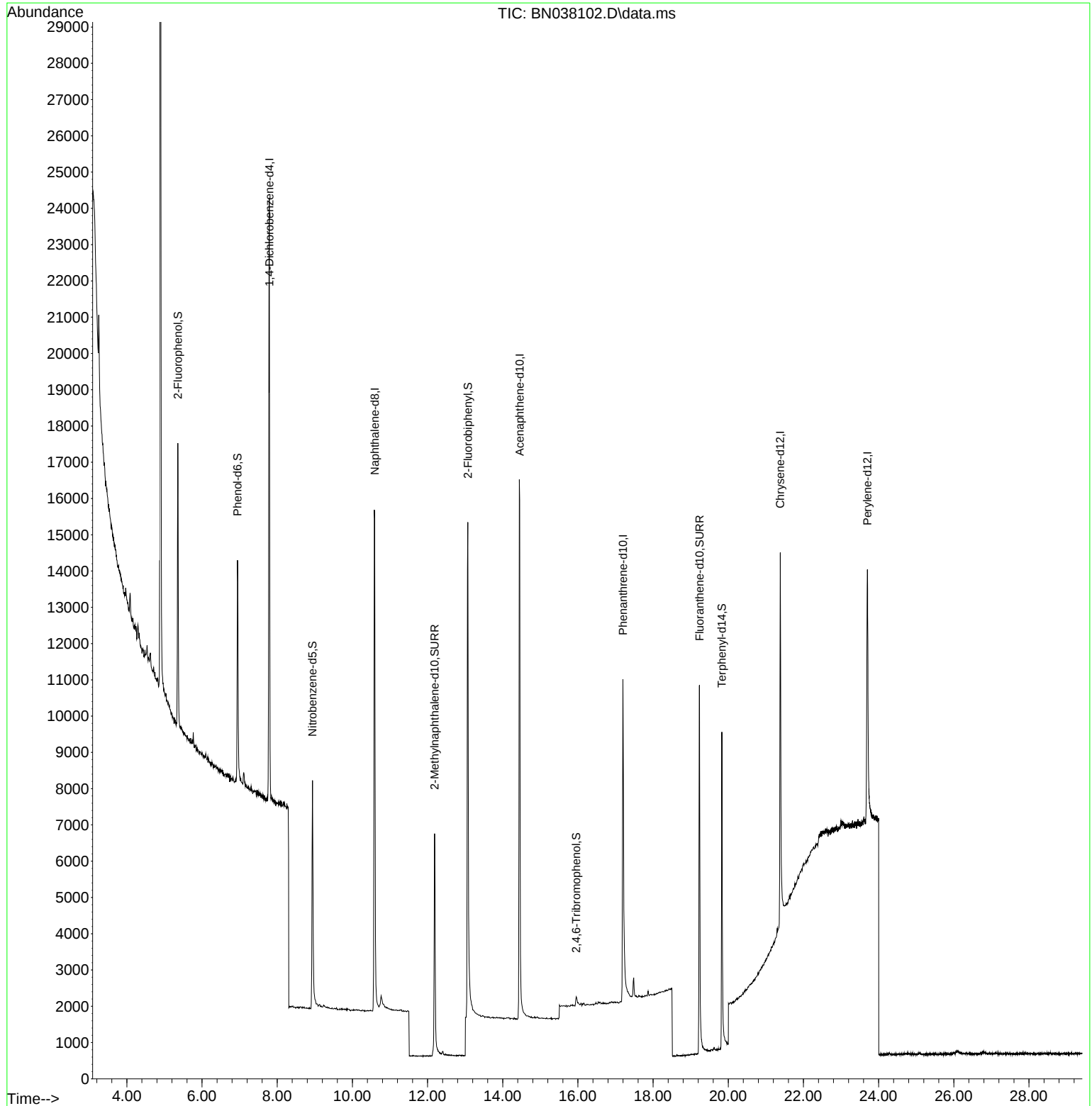
Target Compounds	Qvalue
------------------	--------

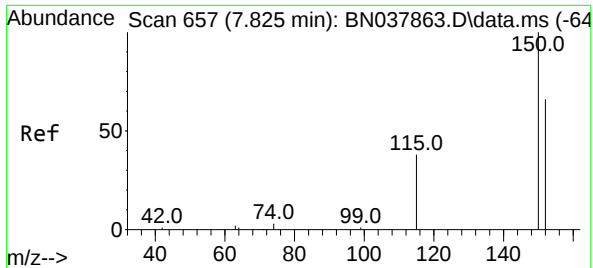
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038102.D
Acq On : 20 Oct 2025 17:56
Operator : RC/JU
Sample : PB170167BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170167BL

Quant Time: Oct 20 18:21:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

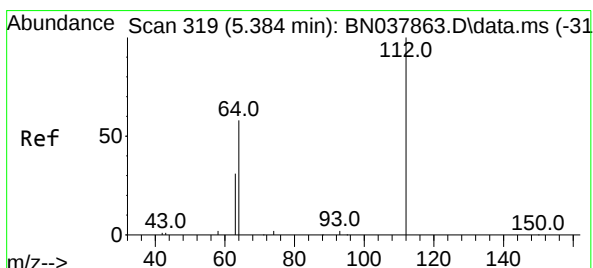
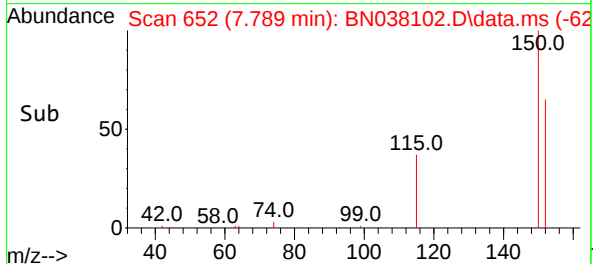
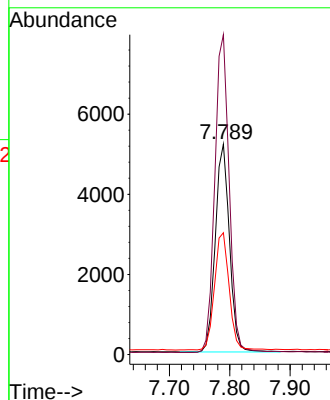
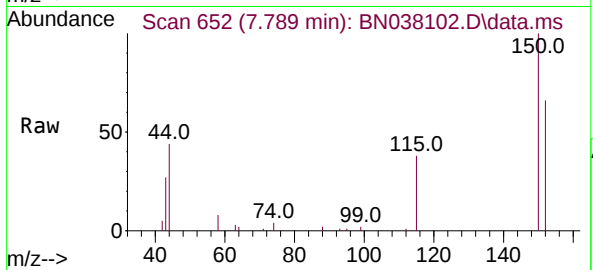




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.036 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

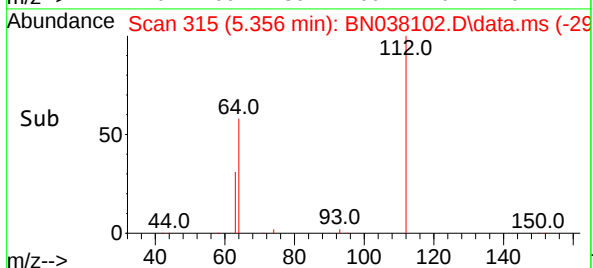
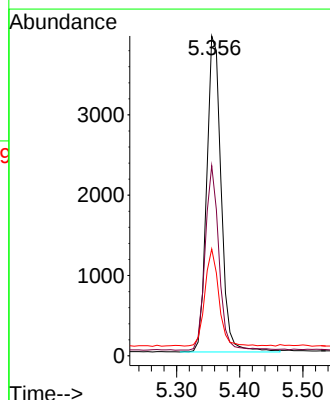
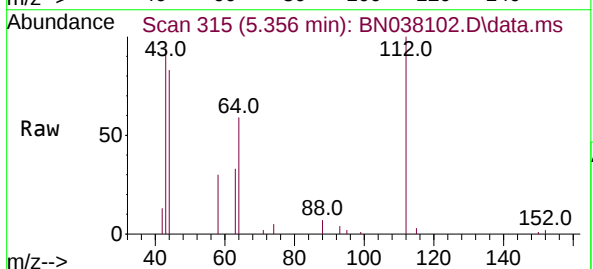
Instrument :
BNA_N
ClientSampleId :
PB170167BL

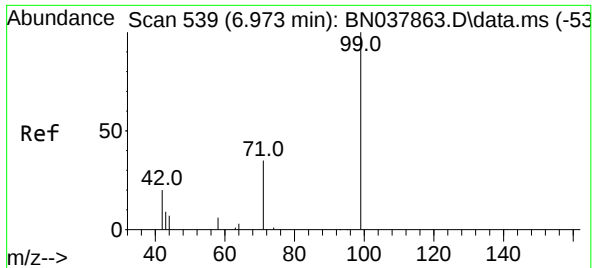
Tgt Ion:152 Resp: 8486
Ion Ratio Lower Upper
152 100
150 152.0 121.0 181.4
115 57.9 47.4 71.0



#4
2-Fluorophenol
Concen: 0.323 ng
RT: 5.356 min Scan# 315
Delta R.T. -0.029 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

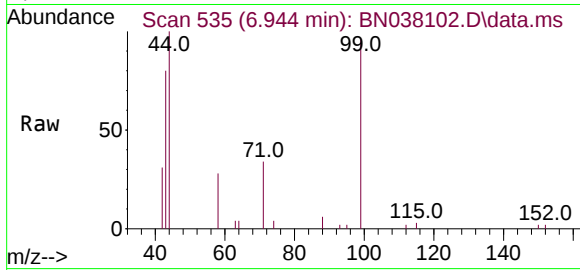
Tgt Ion:112 Resp: 6261
Ion Ratio Lower Upper
112 100
64 55.6 44.6 66.8
63 29.5 24.9 37.3



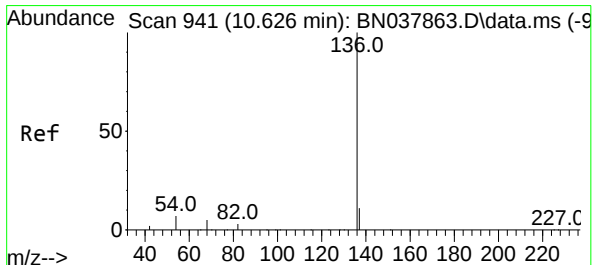
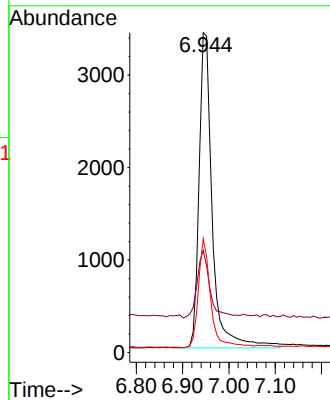
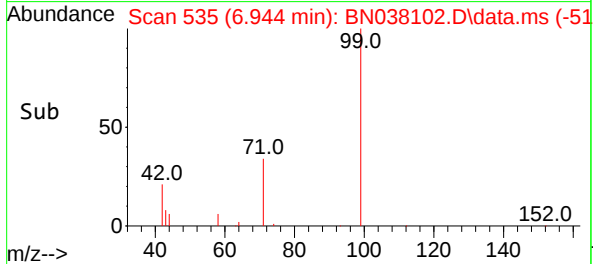


#5
Phenol-d6
Concen: 0.265 ng
RT: 6.944 min Scan# 531
Delta R.T. -0.029 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Instrument :
BNA_N
ClientSampleId :
PB170167BL

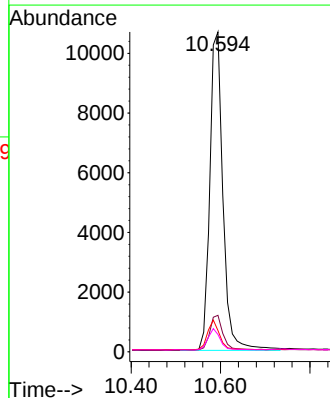
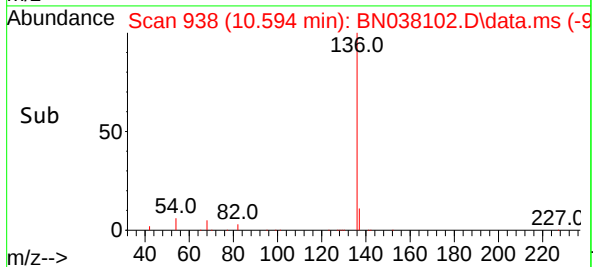
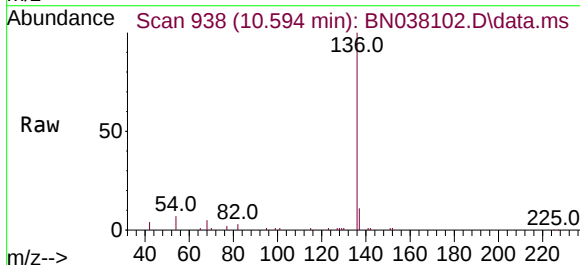


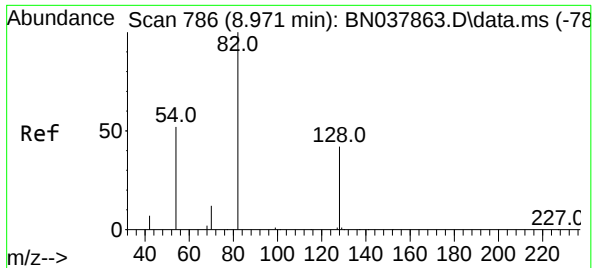
Tgt Ion:	99	Resp:	6738
Ion	Ratio	Lower	Upper
99	100		
42	20.7	17.2	25.8
71	31.9	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 938
Delta R.T. -0.032 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion:	136	Resp:	21914
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	6.7	5.8	8.8
68	5.4	4.3	6.5

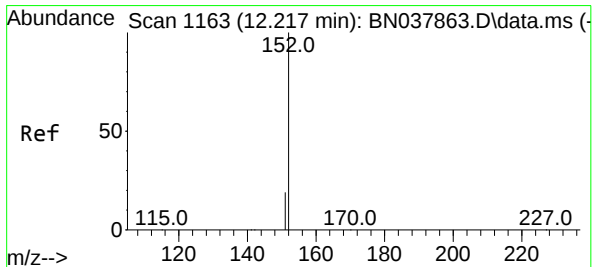
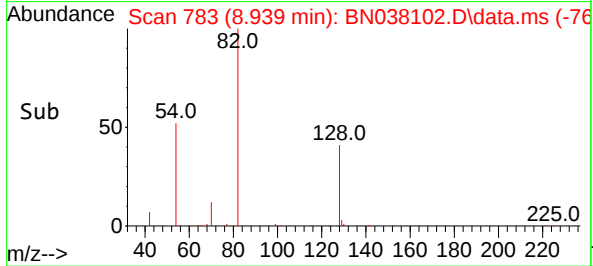
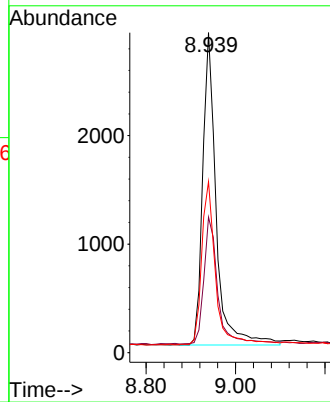
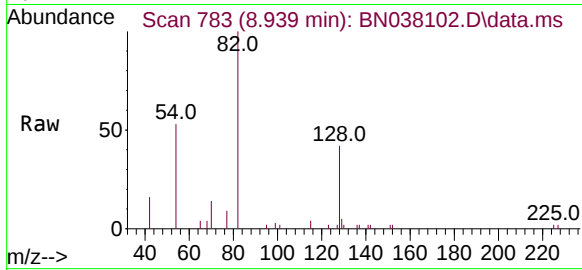




#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.939 min Scan# 786
Delta R.T. -0.032 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

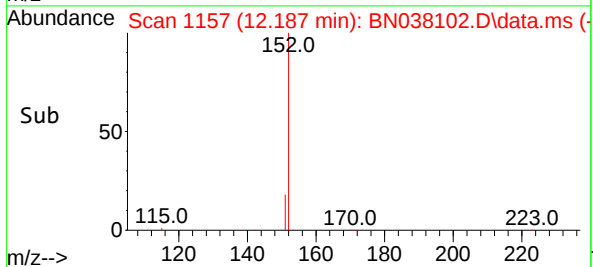
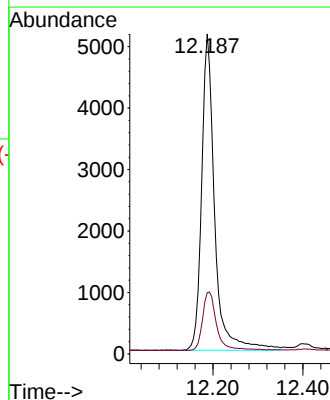
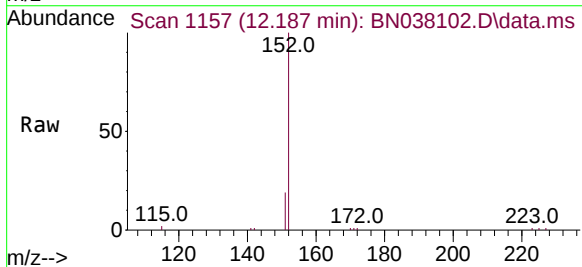
Instrument :
BNA_N
ClientSampleId :
PB170167BL

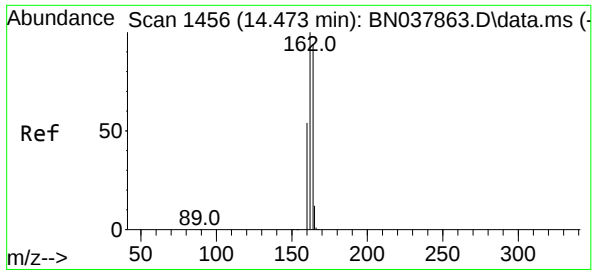
Tgt Ion	82	Resp:	6014
Ion Ratio	Lower	Upper	
82	100		
128	42.4	34.8	52.2
54	53.4	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 12.187 min Scan# 1157
Delta R.T. -0.030 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion	152	Resp:	10334
Ion Ratio	Lower	Upper	
152	100		
151	20.0	17.4	26.2

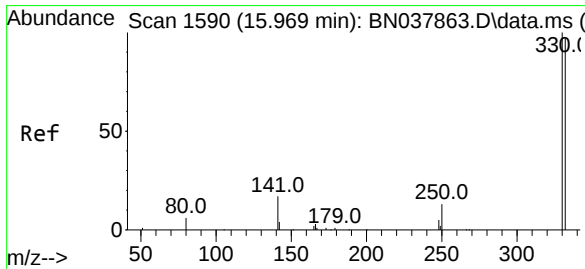
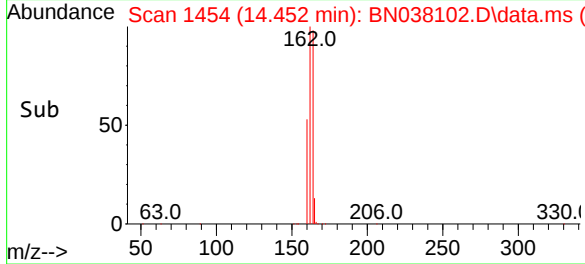
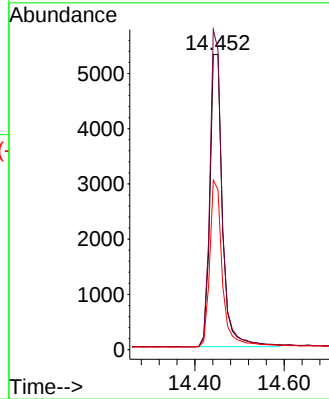
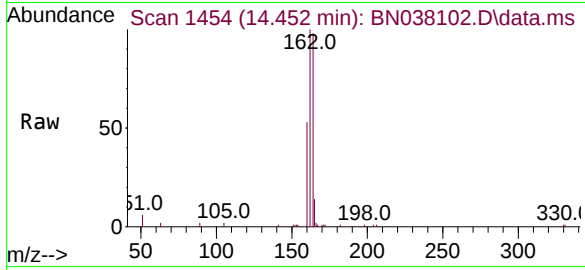




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1456
Delta R.T. -0.021 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

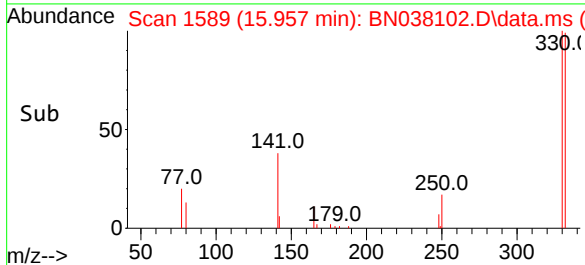
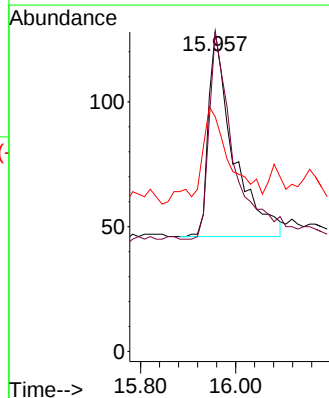
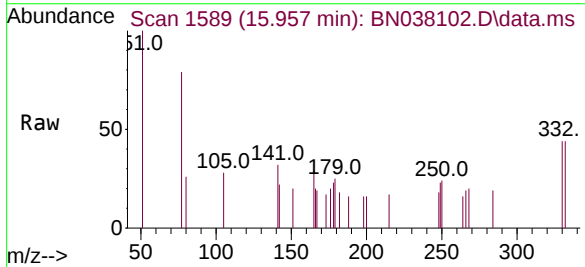
Instrument :
BNA_N
ClientSampleId :
PB170167BL

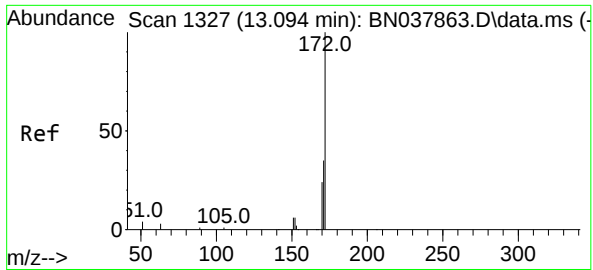
Tgt Ion:	164	Resp:	10397
Ion	Ratio	Lower	Upper
164	100		
162	101.6	84.8	127.2
160	54.2	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.075 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion:	330	Resp:	297
Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.2	115.8
141	42.8	37.2	55.8

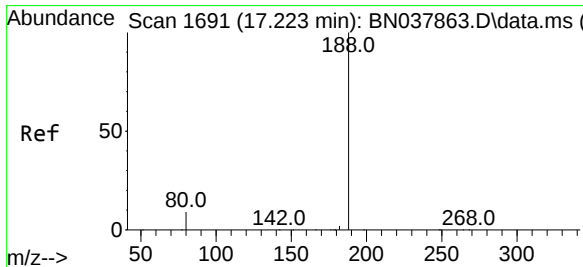
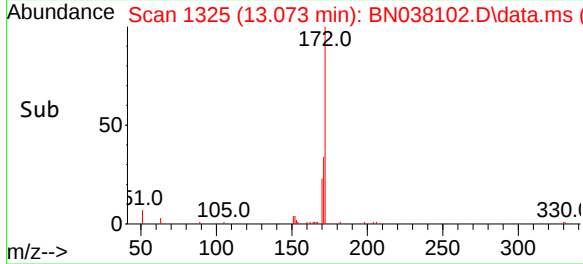
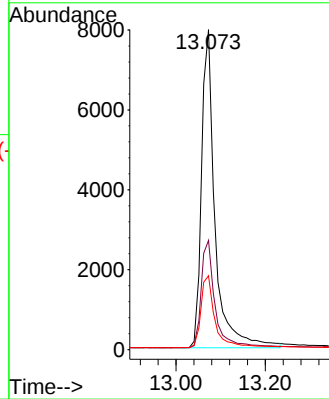
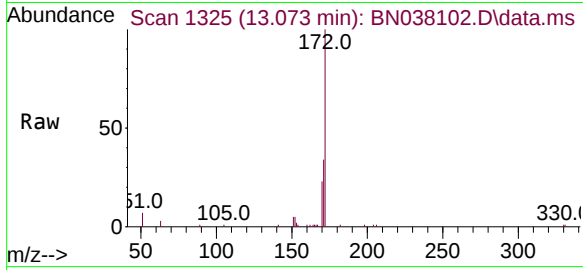




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 13.073 min Scan# 1327
Delta R.T. -0.021 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

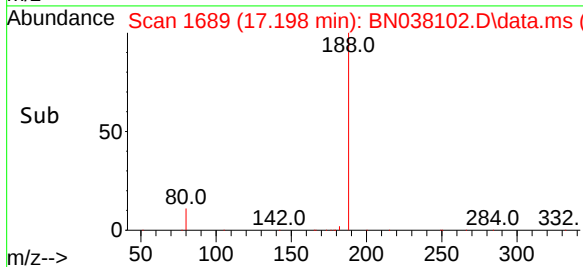
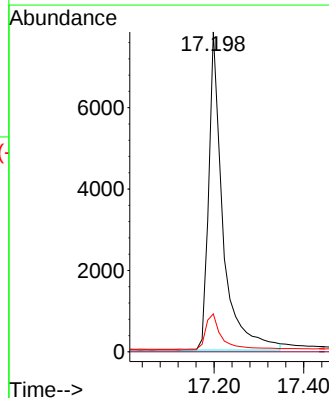
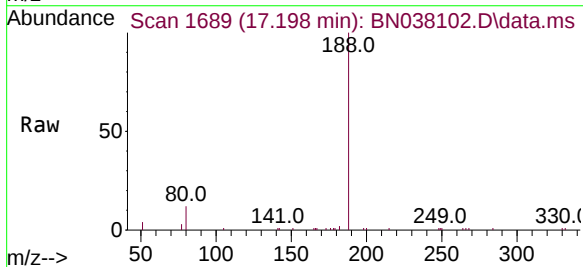
Instrument :
BNA_N
ClientSampleId :
PB170167BL

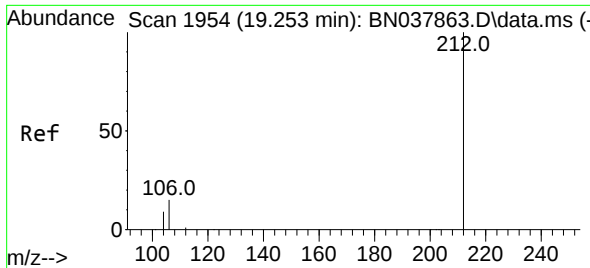
Tgt Ion:172	Resp:	16676
Ion Ratio	Lower	Upper
172	100	
171	34.1	28.6 43.0
170	23.1	19.7 29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. -0.025 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion:188	Resp:	17174
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	11.9	7.6 11.4

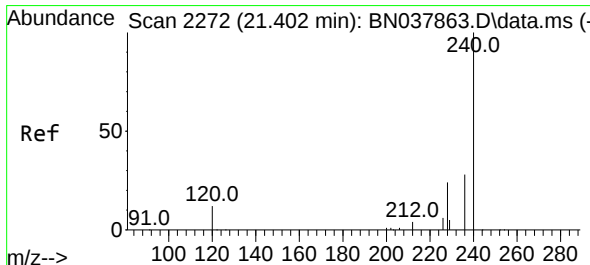
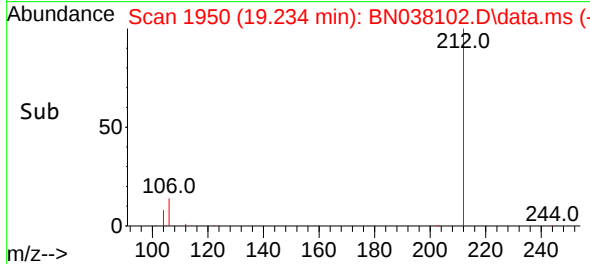
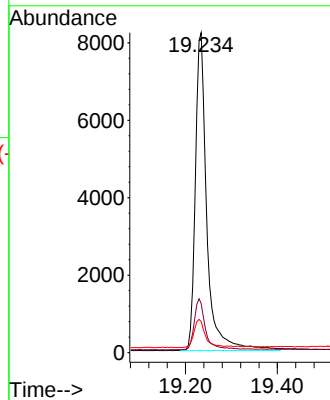
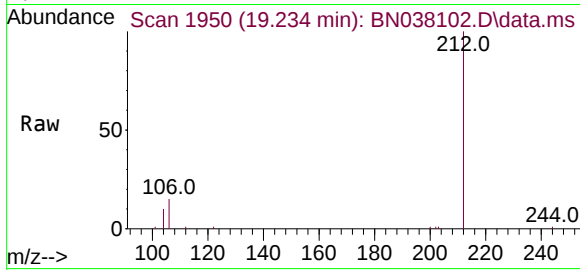




#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.234 min Scan# 19
Delta R.T. -0.019 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

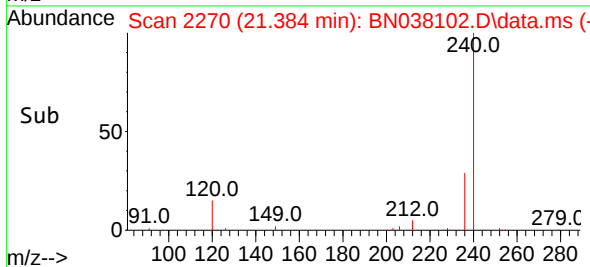
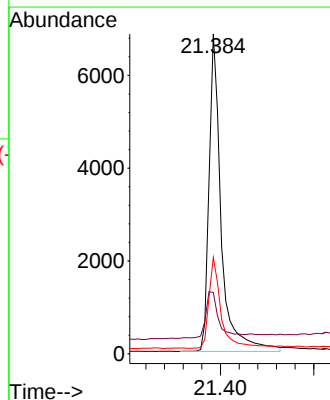
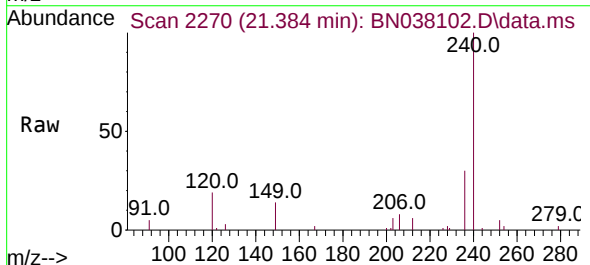
Instrument :
BNA_N
ClientSampleId :
PB170167BL

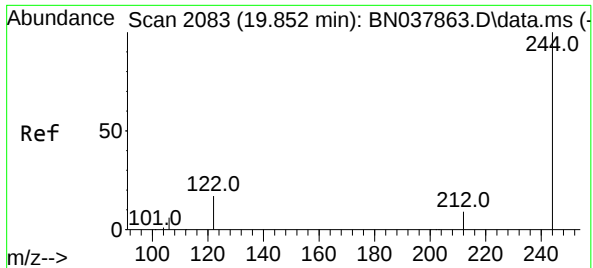
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.6	19.0
104	8.7	7.4	11.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.2	11.4	17.2
236	30.1	23.0	34.6

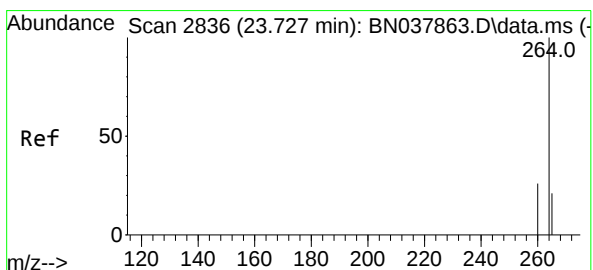
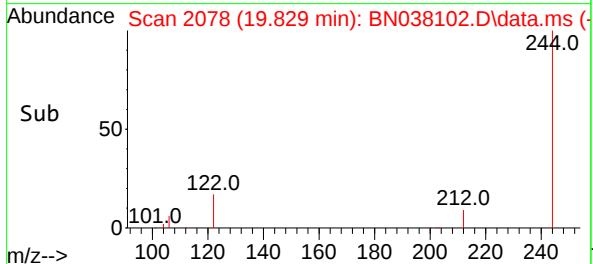
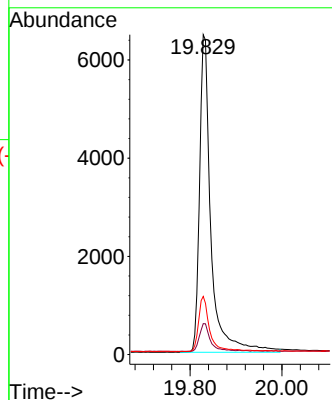
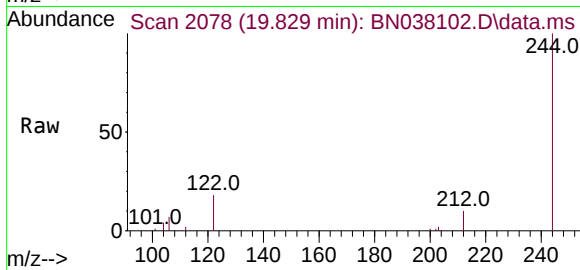




#31
Terphenyl-d14
Concen: 0.454 ng
RT: 19.829 min Scan# 2083
Delta R.T. -0.023 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

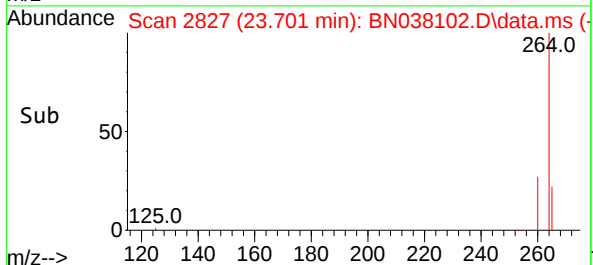
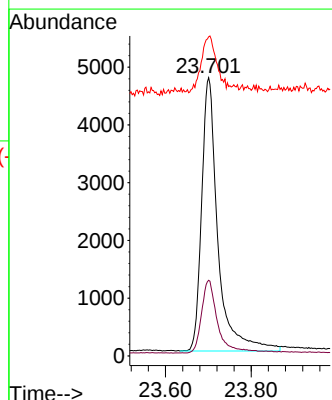
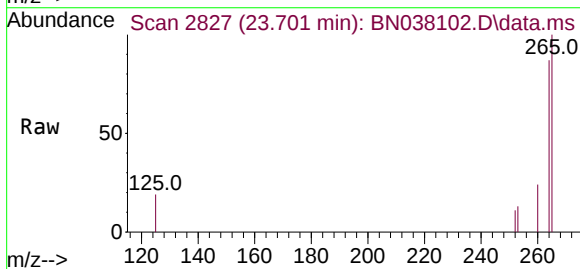
Instrument :
BNA_N
ClientSampleId :
PB170167BL

Tgt Ion:244 Resp: 11129
Ion Ratio Lower Upper
244 100
212 9.7 7.6 11.4
122 18.2 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.701 min Scan# 2827
Delta R.T. -0.026 min
Lab File: BN038102.D
Acq: 20 Oct 2025 17:56

Tgt Ion:264 Resp: 12453
Ion Ratio Lower Upper
264 100
260 27.2 21.5 32.3
265 114.8 53.8 80.6#





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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB170167BS		SDG No.:	Q3371
Lab Sample ID:	PB170167BS		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :		Prep Date: 10/20/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.38		1	0.070	0.20	0.20	ug/L	10/20/25 18:33	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.40			30 - 150		99%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.34			30 - 150		85%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.42			55 - 111		104%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.44	*		53 - 106		111%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.51			58 - 132		127%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	7520								
1146-65-2	Naphthalene-d8	19900								
15067-26-2	Acenaphthene-d10	9570								
1517-22-2	Phenanthrene-d10	16600								
1719-03-5	Chrysene-d12	11000								
1520-96-3	Perylene-d12	10200								

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\BN102025\
 Data File : BN038103.D
 Acq On : 20 Oct 2025 18:33
 Operator : RC/JU
 Sample : PB170167BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170167BS

Quant Time: Oct 20 19:06:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

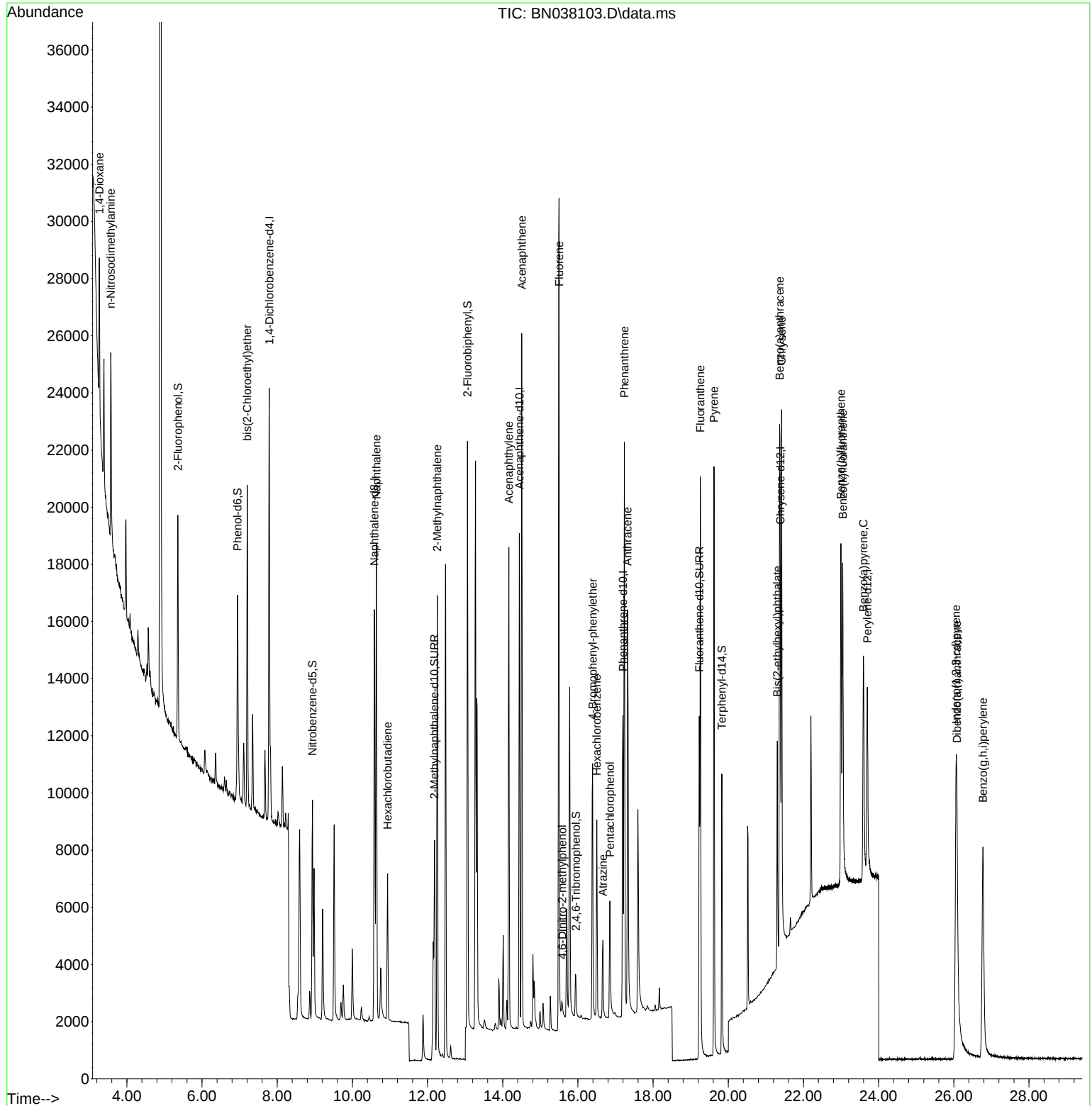
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	7519	0.400	ng	-0.04
7) Naphthalene-d8	10.583	136	19915	0.400	ng	#-0.04
13) Acenaphthene-d10	14.441	164	9572	0.400	ng	-0.03
19) Phenanthrene-d10	17.198	188	16635	0.400	ng	-0.02
29) Chrysene-d12	21.384	240	10986	0.400	ng	-0.02
35) Perylene-d12	23.698	264	10158	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	6328	0.369	ng	-0.03
5) Phenol-d6	6.944	99	6984	0.310	ng	-0.03
8) Nitrobenzene-d5	8.939	82	6334	0.417	ng	-0.03
11) 2-Methylnaphthalene-d10	12.182	152	10948	0.396	ng	-0.04
14) 2,4,6-Tribromophenol	15.944	330	1097	0.302	ng	-0.02
15) 2-Fluorobiphenyl	13.062	172	17321	0.442	ng	-0.03
27) Fluoranthene-d10	19.229	212	14218	0.340	ng	-0.02
31) Terphenyl-d14	19.828	244	11138	0.509	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.268	88	2925	0.383	ng	# 29
3) n-Nitrosodimethylamine	3.571	42	4044	0.398	ng	# 92
6) bis(2-Chloroethyl)ether	7.204	93	8084	0.386	ng	99
9) Naphthalene	10.637	128	21422	0.390	ng	99
10) Hexachlorobutadiene	10.936	225	3895	0.416	ng	# 100
12) 2-Methylnaphthalene	12.258	142	11997	0.335	ng	99
16) Acenaphthylene	14.163	152	18576	0.427	ng	99
17) Acenaphthene	14.505	154	11267	0.364	ng	98
18) Fluorene	15.499	166	14117	0.377	ng	98
20) 4,6-Dinitro-2-methylph...	15.584	198	565	0.334	ng	# 27
21) 4-Bromophenyl-phenylether	16.391	248	4260	0.393	ng	93
22) Hexachlorobenzene	16.503	284	5253	0.400	ng	98
23) Atrazine	16.664	200	2689	0.326	ng	98
24) Pentachlorophenol	16.851	266	2558	0.567	ng	97
25) Phenanthrene	17.235	178	20460	0.374	ng	99
26) Anthracene	17.322	178	18013	0.379	ng	100
28) Fluoranthene	19.257	202	19776	0.328	ng	99
30) Pyrene	19.619	202	19558	0.451	ng	99
32) Benzo(a)anthracene	21.366	228	14573	0.380	ng	99
33) Chrysene	21.420	228	17576	0.423	ng	100
34) Bis(2-ethylhexyl)phtha...	21.304	149	6066	0.399	ng	96
36) Indeno(1,2,3-cd)pyrene	26.060	276	19707	0.425	ng	99
37) Benzo(b)fluoranthene	22.999	252	16016	0.366	ng	# 92
38) Benzo(k)fluoranthene	23.043	252	17177	0.390	ng	# 91
39) Benzo(a)pyrene	23.595	252	14266	0.412	ng	# 88
40) Dibenzo(a,h)anthracene	26.083	278	14225	0.392	ng	94
41) Benzo(g,h,i)perylene	26.773	276	17781	0.467	ng	98

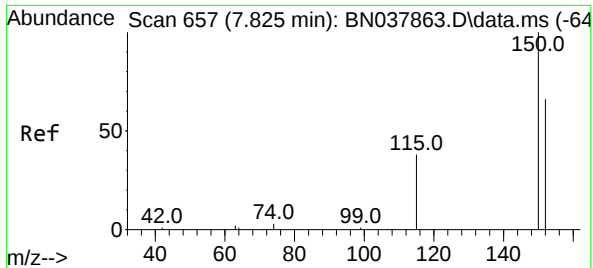
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038103.D
Acq On : 20 Oct 2025 18:33
Operator : RC/JU
Sample : PB170167BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170167BS

Quant Time: Oct 20 19:06:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

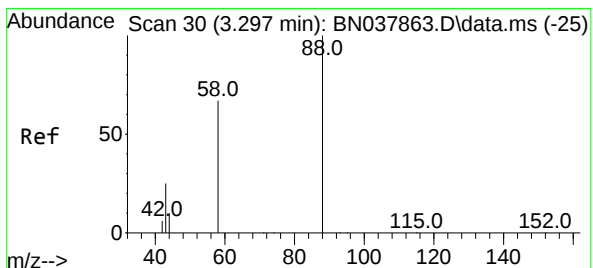
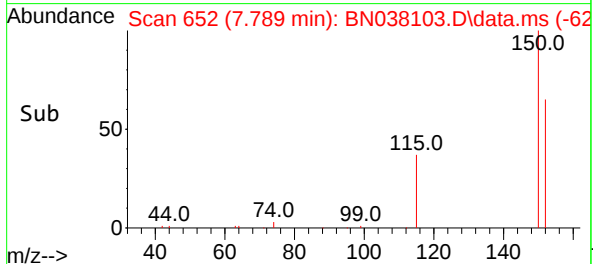
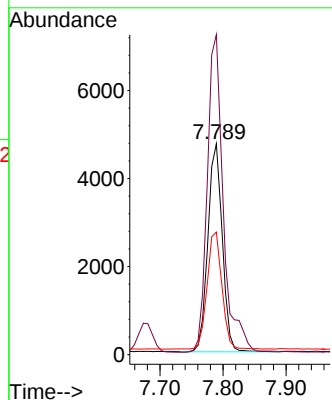
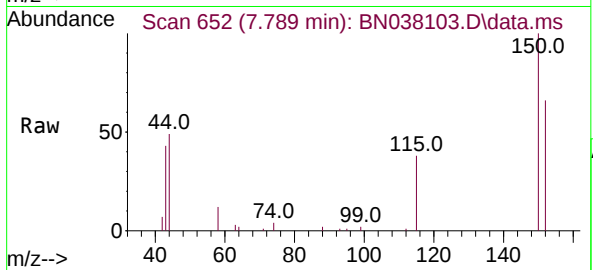




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.036 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

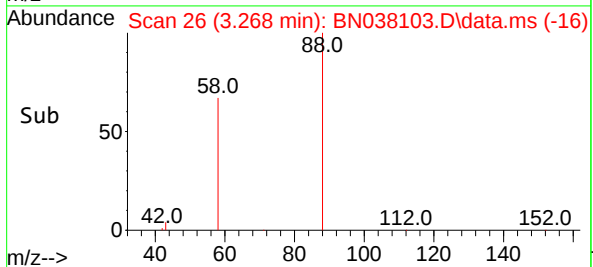
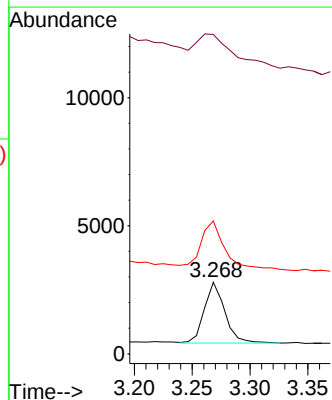
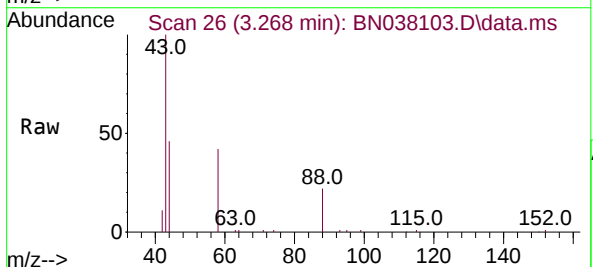
Instrument :
BNA_N
ClientSampleId :
PB170167BS

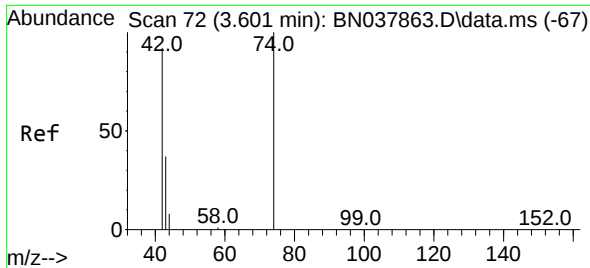
Tgt Ion:152 Resp: 7519
Ion Ratio Lower Upper
152 100
150 151.8 121.0 181.4
115 58.1 47.4 71.0



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 88 Resp: 2925
Ion Ratio Lower Upper
88 100
43 123.5 26.6 39.8#
58 99.3 58.9 88.3#

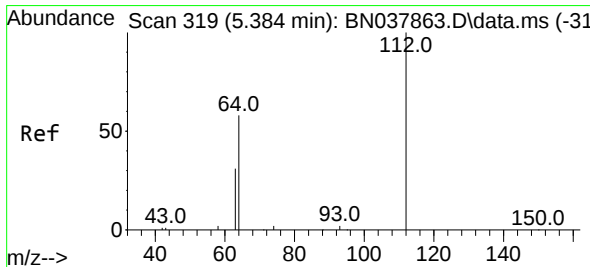
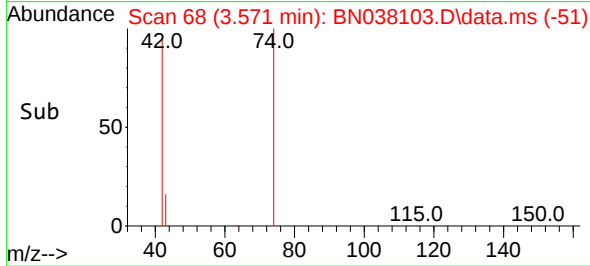
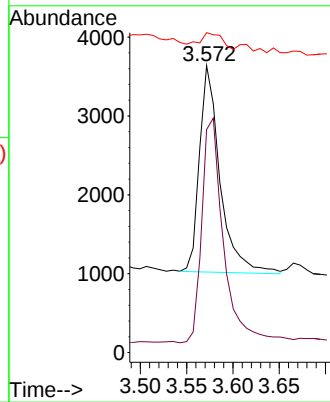
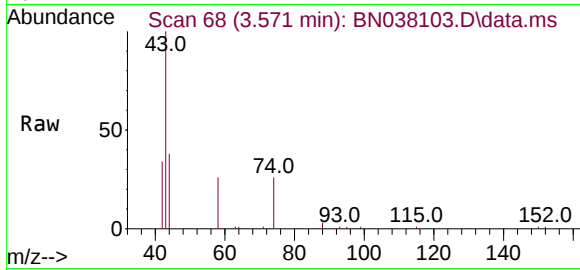




#3
n-Nitrosodimethylamine
Concen: 0.398 ng
RT: 3.571 min Scan# 68
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

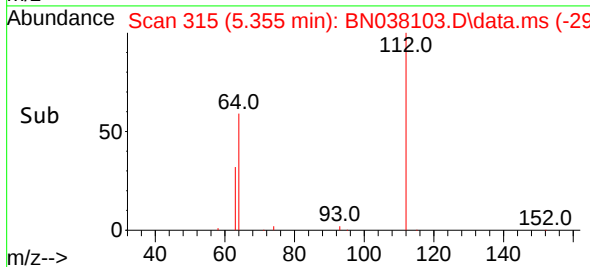
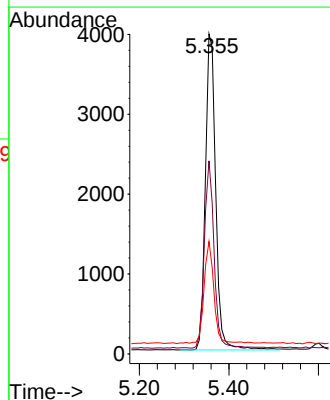
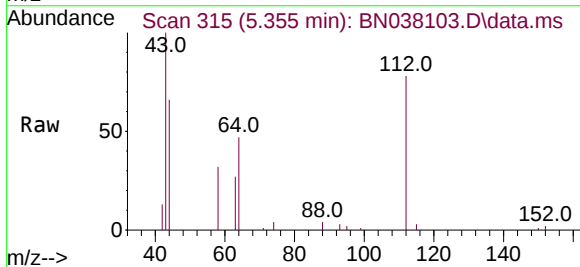
Instrument :
BNA_N
ClientSampleId :
PB170167BS

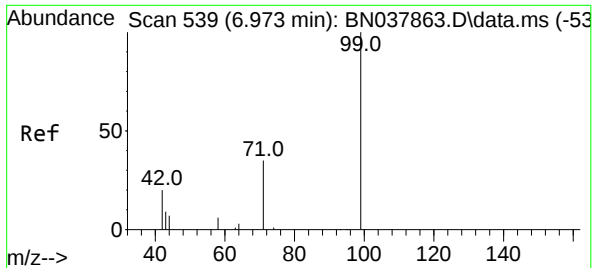
Tgt Ion: 42 Resp: 4044
Ion Ratio Lower Upper
42 100
74 115.9 93.4 140.0
44 6.7 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.369 ng
RT: 5.355 min Scan# 315
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 112 Resp: 6328
Ion Ratio Lower Upper
112 100
64 55.6 44.6 66.8
63 31.1 24.9 37.3

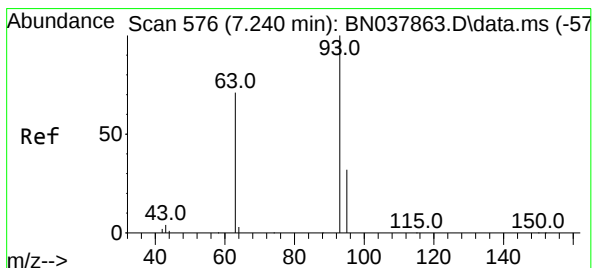
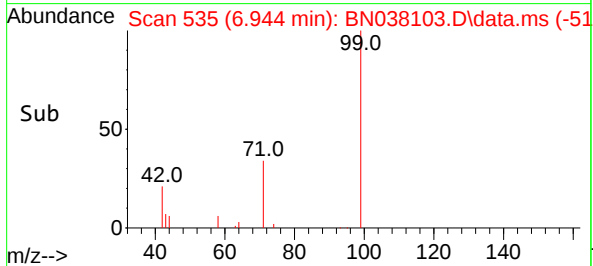
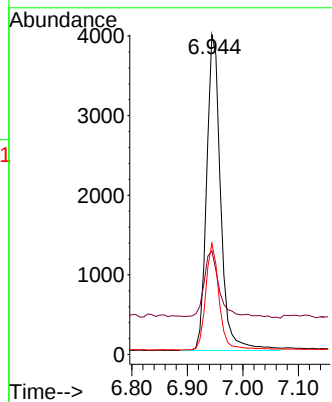
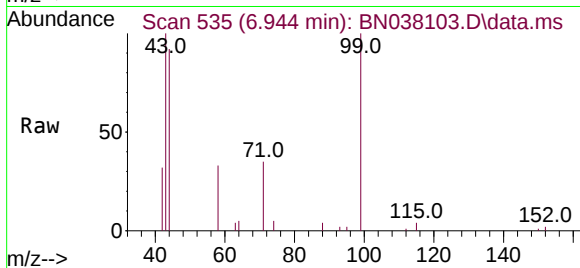




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.944 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

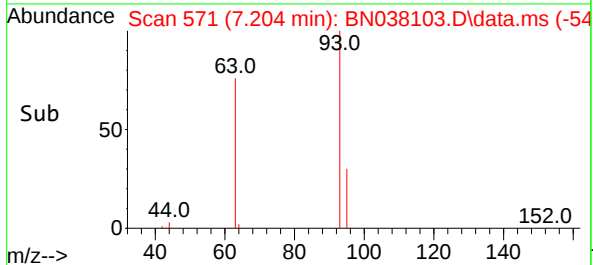
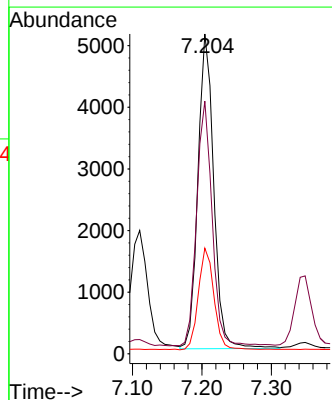
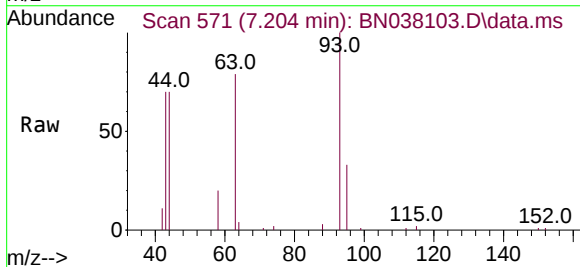
Instrument :
BNA_N
ClientSampleId :
PB170167BS

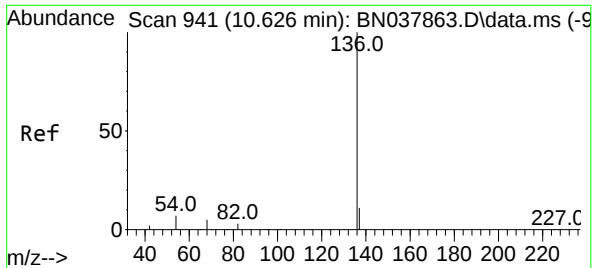
Tgt Ion:	99	Resp:	6984
Ion	Ratio	Lower	Upper
99	100		
42	24.5	17.2	25.8
71	32.4	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.204 min Scan# 571
Delta R.T. -0.036 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:	93	Resp:	8084
Ion	Ratio	Lower	Upper
93	100		
63	76.3	60.1	90.1
95	32.0	25.4	38.2

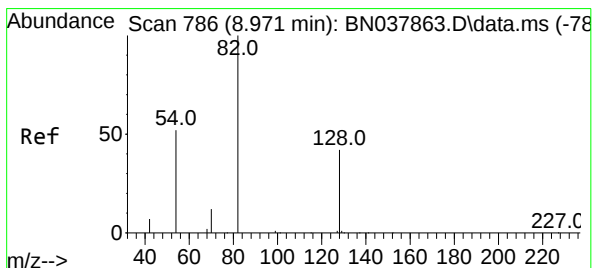
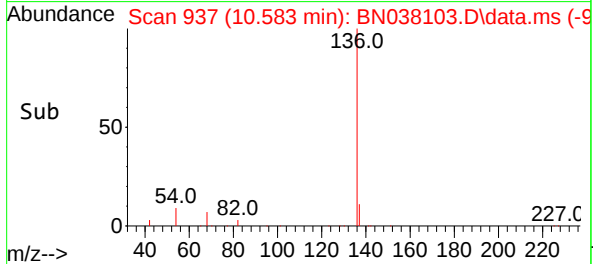
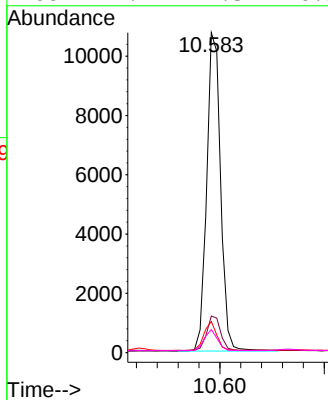
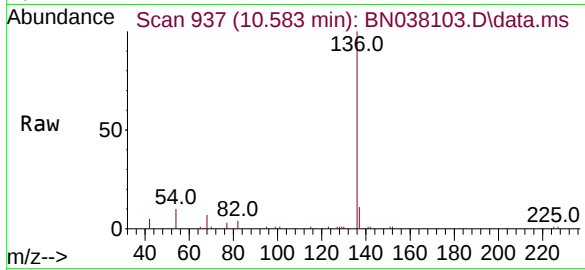




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.583 min Scan# 91
Delta R.T. -0.043 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

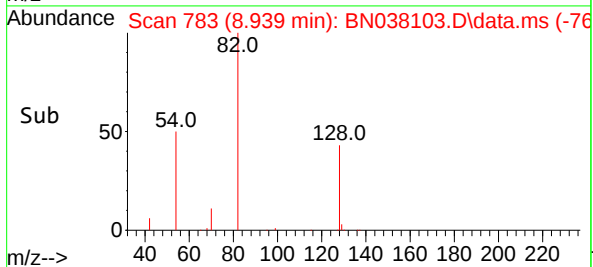
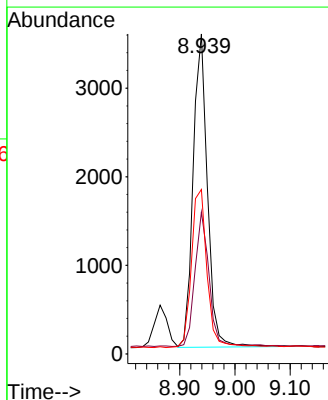
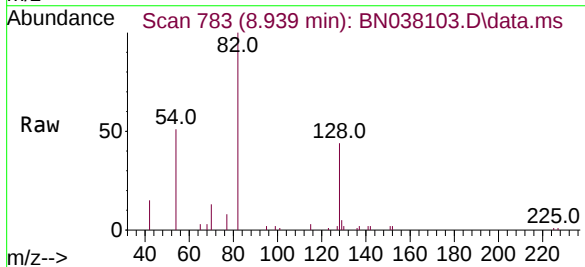
Instrument :
BNA_N
ClientSampleId :
PB170167BS

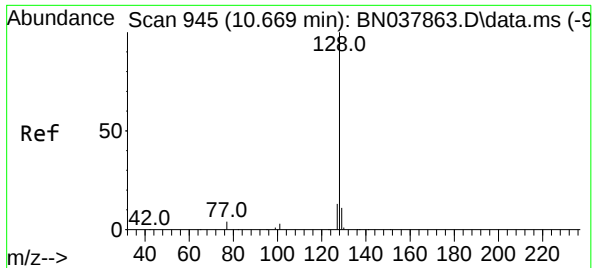
Tgt Ion:136	Resp:	19915
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.0 13.4
54	9.7	5.8 8.8#
68	7.2	4.3 6.5#



#8
Nitrobenzene-d5
Concen: 0.417 ng
RT: 8.939 min Scan# 783
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 82	Resp:	6334
Ion Ratio	Lower	Upper
82	100	
128	44.3	34.8 52.2
54	51.4	42.2 63.2

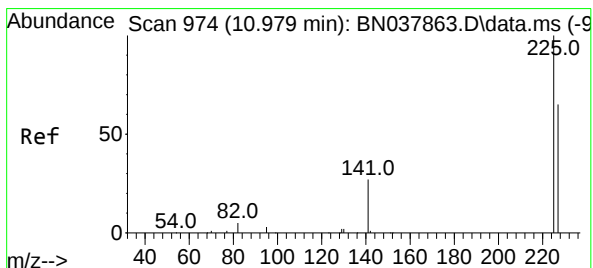
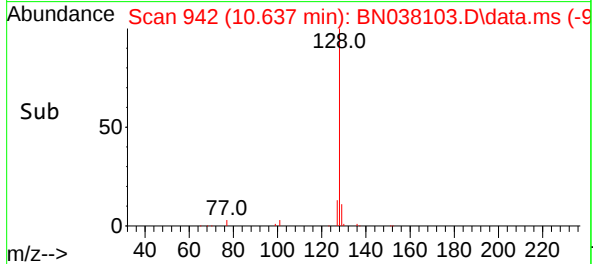
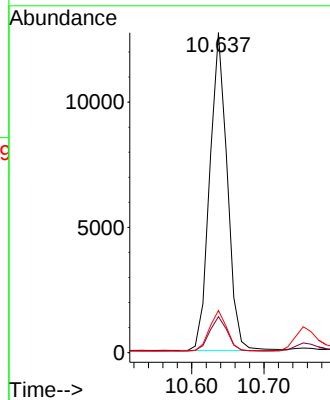
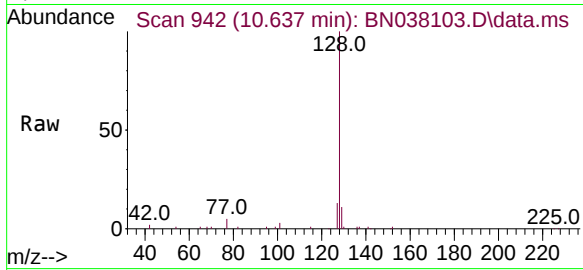




#9
Naphthalene
Concen: 0.390 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

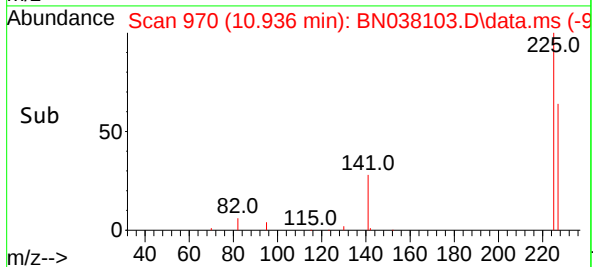
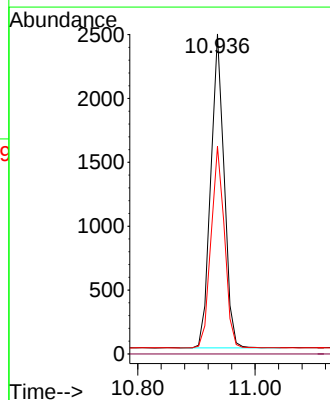
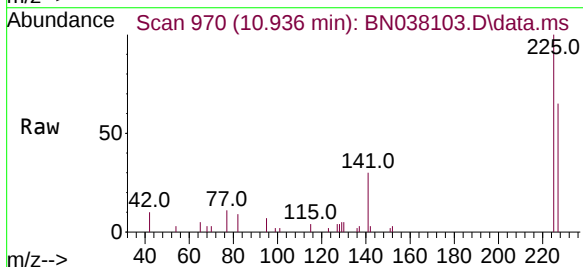
Instrument :
BNA_N
ClientSampleId :
PB170167BS

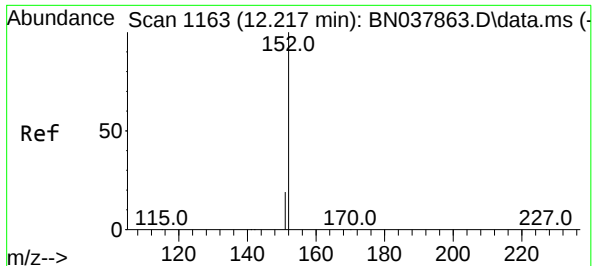
Tgt Ion:	128	Resp:	21422
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.936 min Scan# 970
Delta R.T. -0.043 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:	225	Resp:	3895
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.4	77.2

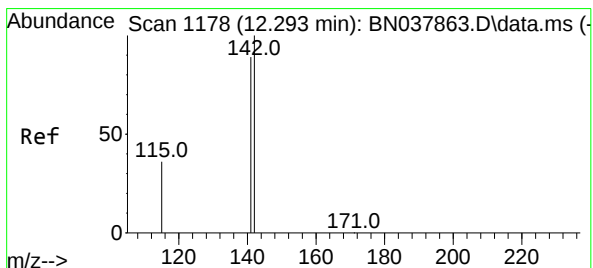
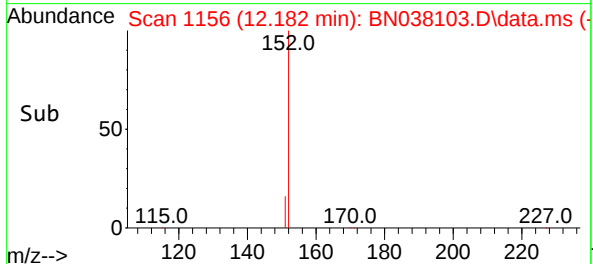
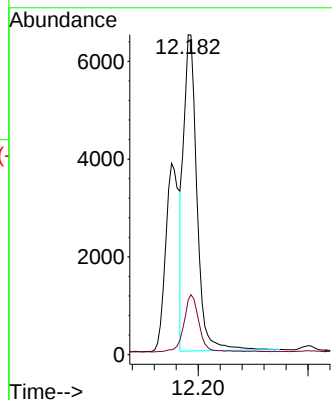
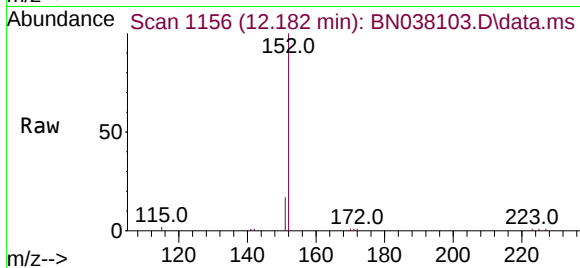




#11
2-Methylnaphthalene-d10
Concen: 0.396 ng
RT: 12.182 min Scan# 1163
Delta R.T. -0.036 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

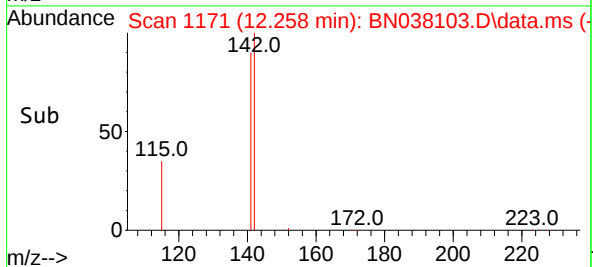
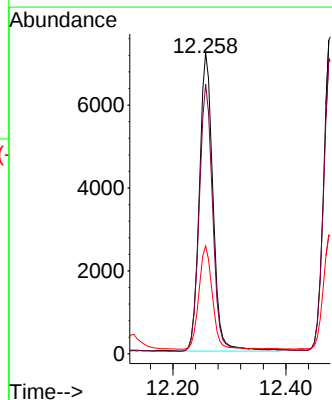
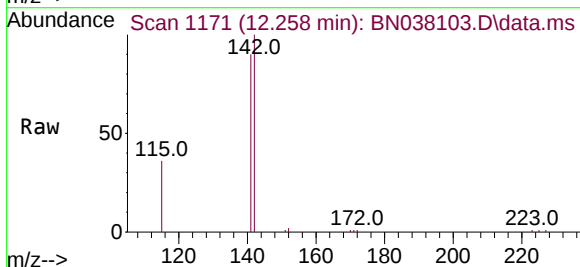
Instrument :
BNA_N
ClientSampleId :
PB170167BS

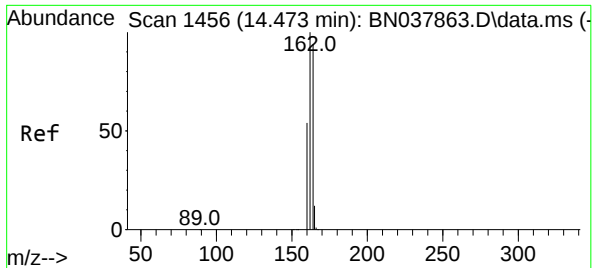
Tgt Ion:152 Resp: 10948
Ion Ratio Lower Upper
152 100
151 20.4 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.335 ng
RT: 12.258 min Scan# 1171
Delta R.T. -0.036 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:142 Resp: 11997
Ion Ratio Lower Upper
142 100
141 89.6 71.2 106.8
115 35.8 29.7 44.5

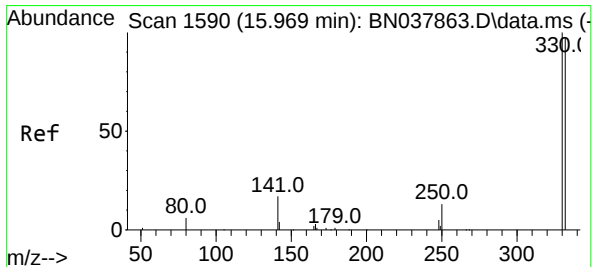
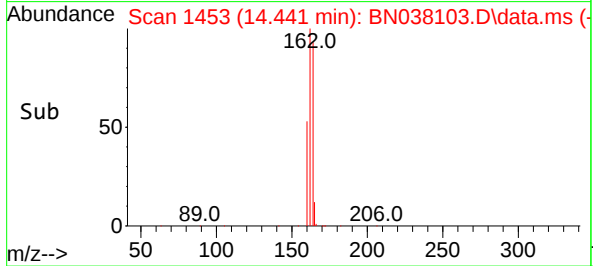
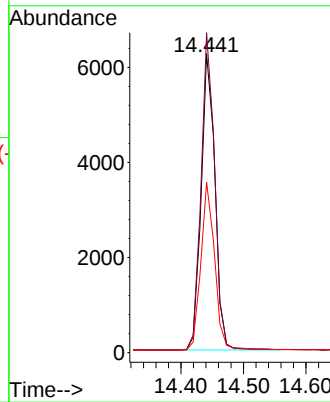
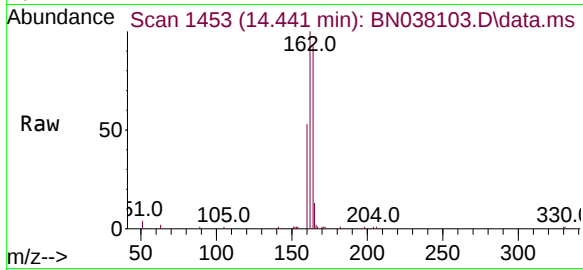




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1456
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

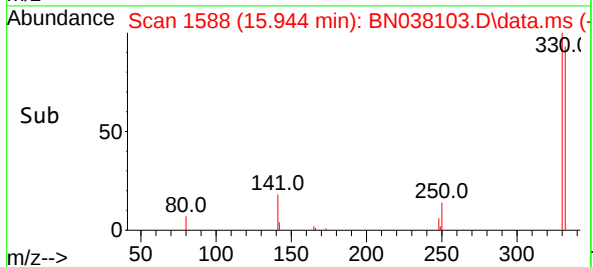
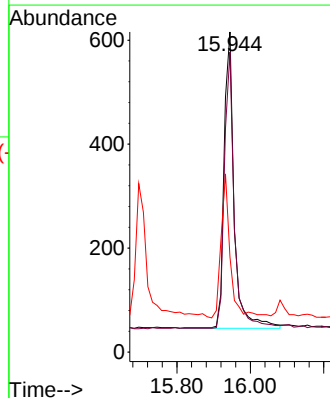
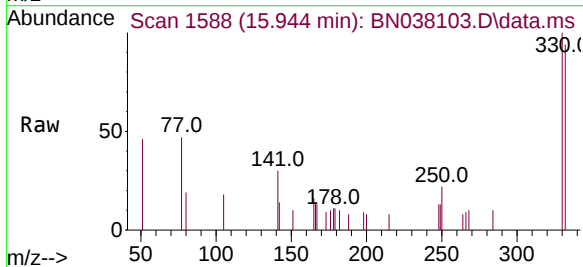
Instrument :
BNA_N
ClientSampleId :
PB170167BS

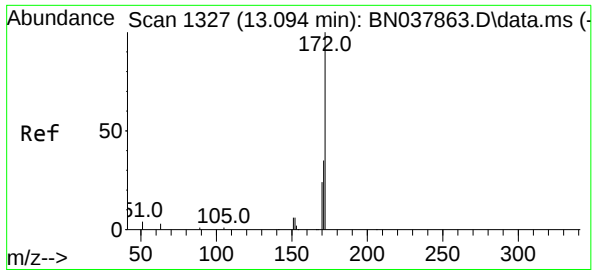
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.0	84.8	127.2
160	57.0	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.025 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.3	77.2	115.8
141	44.0	37.2	55.8

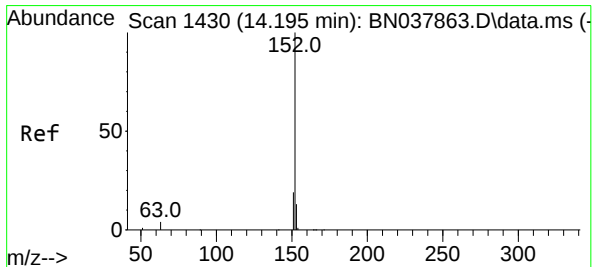
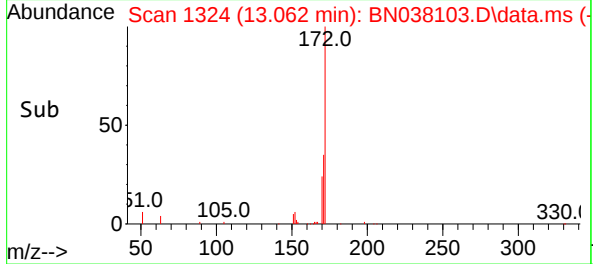
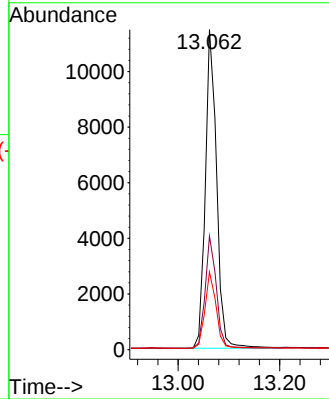
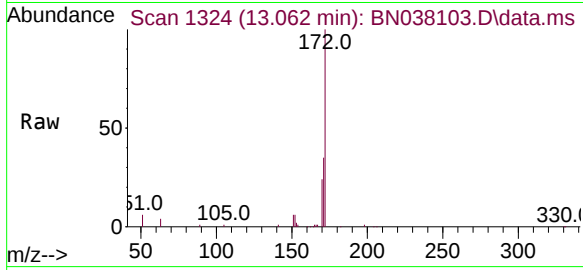




#15
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 13.062 min Scan# 1327
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

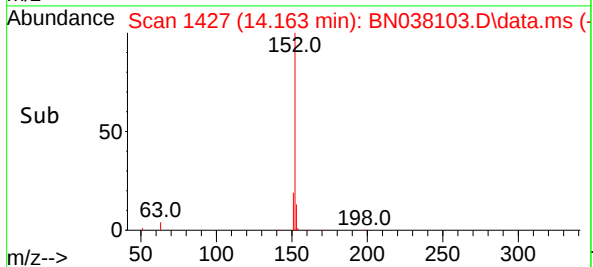
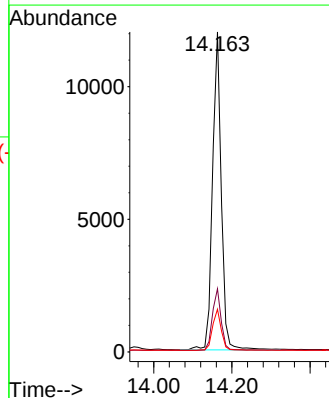
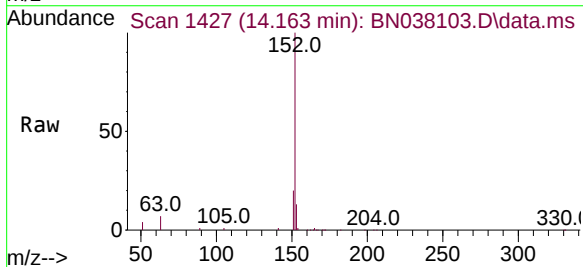
Instrument :
BNA_N
ClientSampleId :
PB170167BS

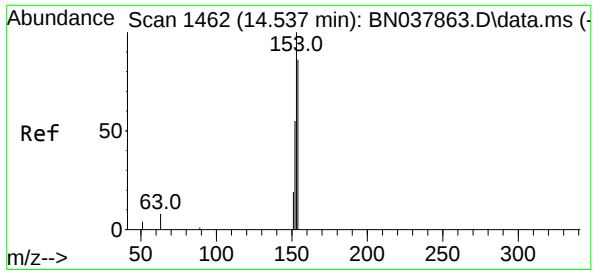
Tgt Ion:	172	Resp:	17321
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	43.0
170	24.3	19.7	29.5



#16
Acenaphthylene
Concen: 0.427 ng
RT: 14.163 min Scan# 1427
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:	152	Resp:	18576
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	12.8	10.5	15.7

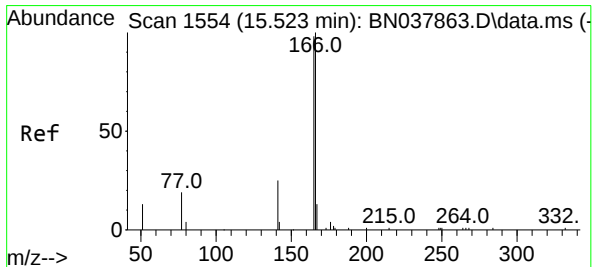
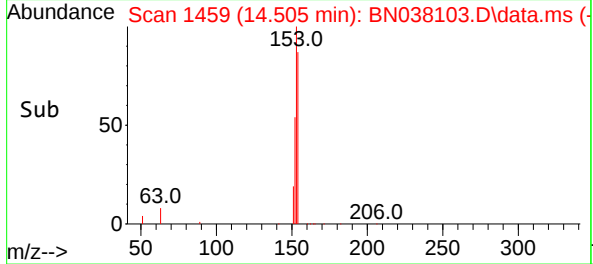
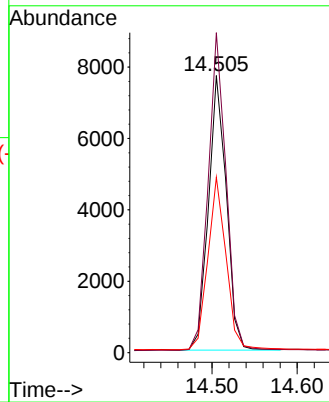
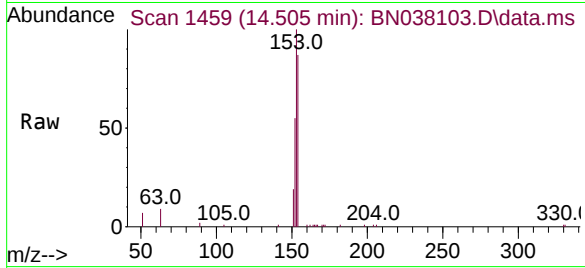




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.505 min Scan# 1459
Delta R.T. -0.032 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

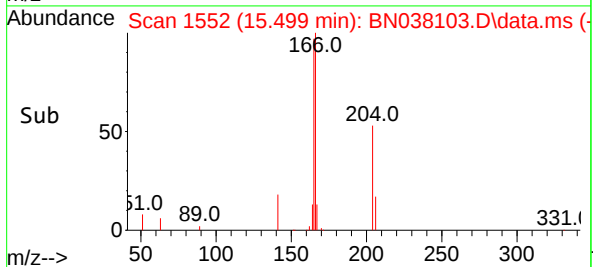
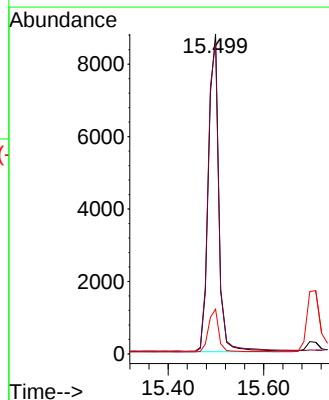
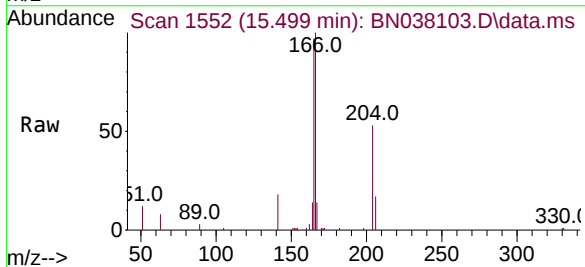
Instrument :
BNA_N
ClientSampleId :
PB170167BS

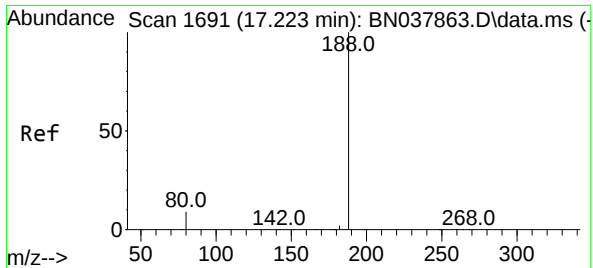
Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.2	90.5	135.7
152	64.0	51.8	77.8



#18
Fluorene
Concen: 0.377 ng
RT: 15.499 min Scan# 1552
Delta R.T. -0.023 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.0	118.4
167	13.4	10.6	16.0

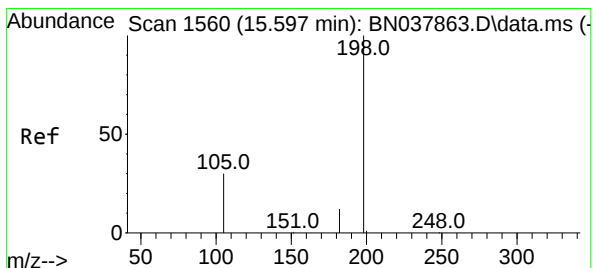
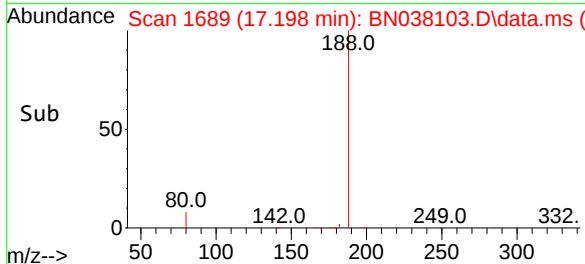
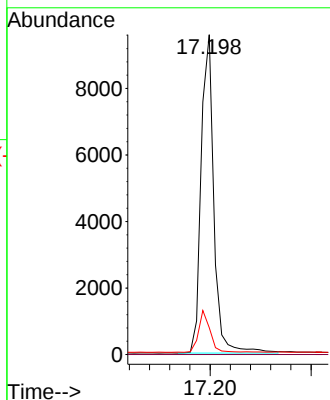
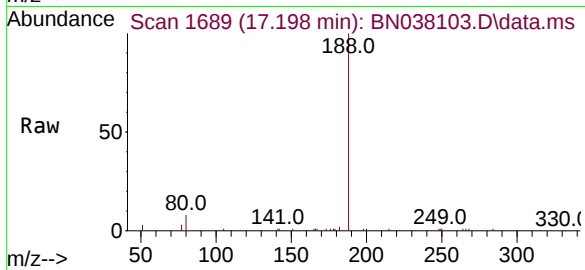




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. -0.025 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

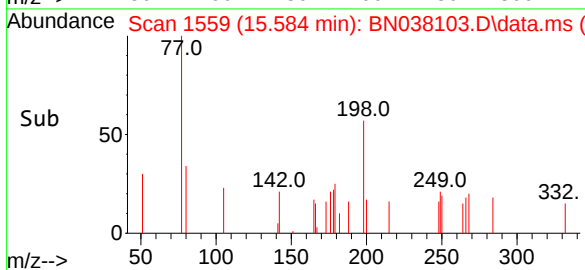
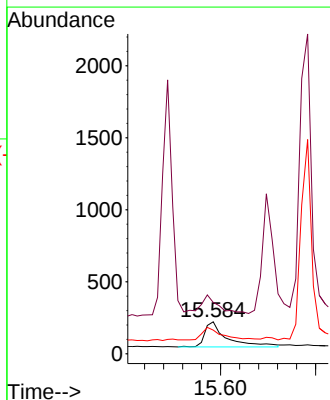
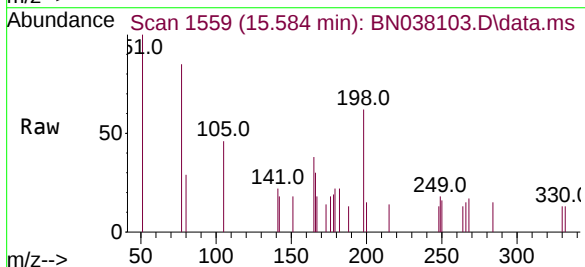
Instrument :
BNA_N
ClientSampleId :
PB170167BS

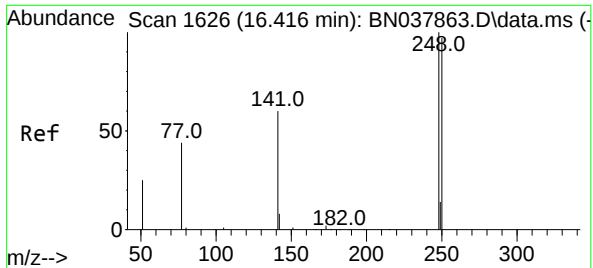
Tgt Ion	188	Resp	16635
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.4	7.6	11.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.584 min Scan# 1559
Delta R.T. -0.013 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	198	Resp	565
Ion Ratio	Lower	Upper	
198	100		
51	160.1	59.1	88.7#
105	74.0	41.3	61.9#

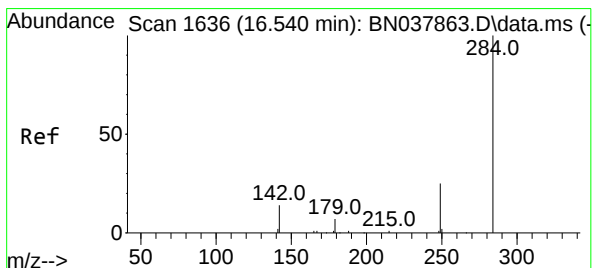
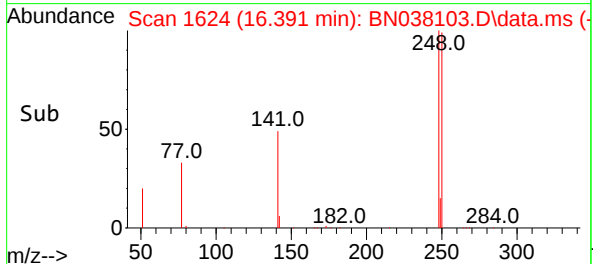
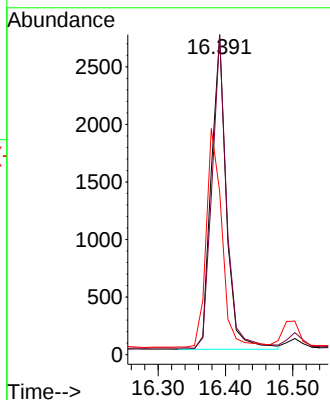
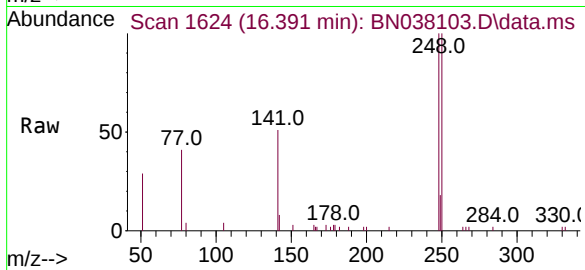




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

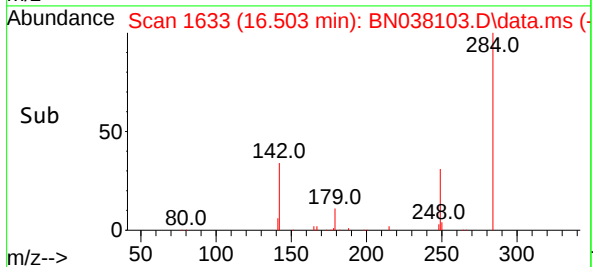
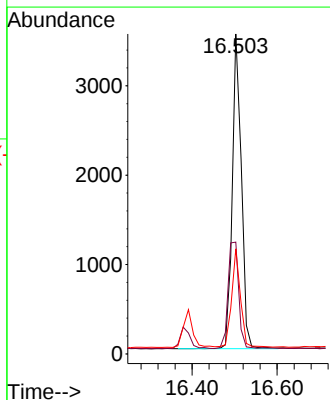
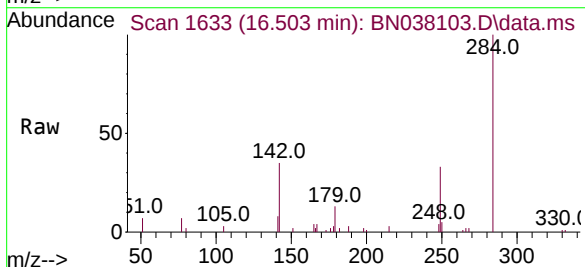
Instrument :
BNA_N
ClientSampleId :
PB170167BS

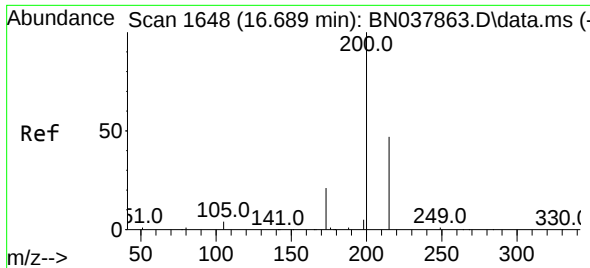
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.9	77.6	116.4
141	51.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.037 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.2	30.9	46.3
249	30.7	23.9	35.9

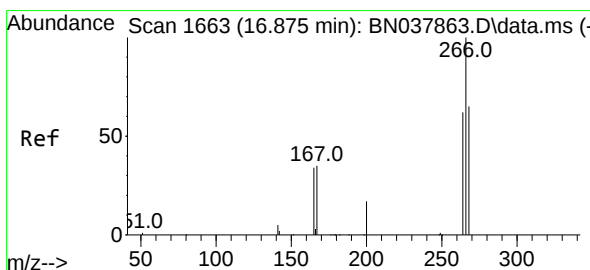
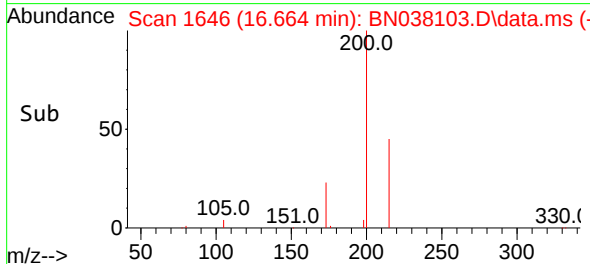
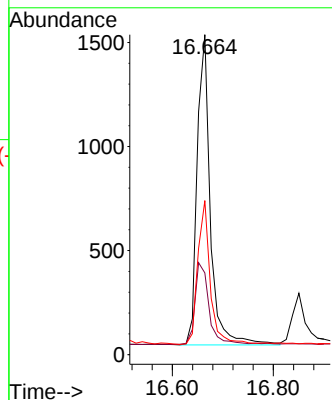
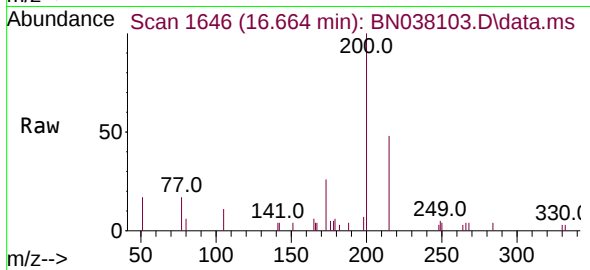




#23
Atrazine
Concen: 0.326 ng
RT: 16.664 min Scan# 1646
Delta R.T. -0.025 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

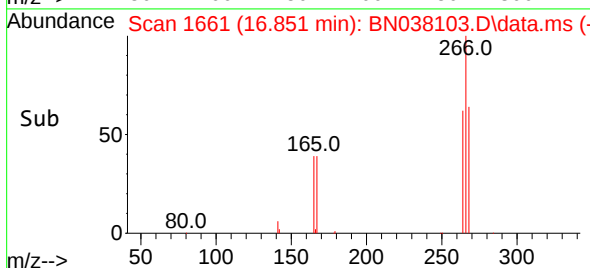
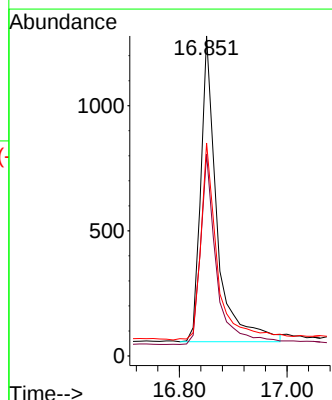
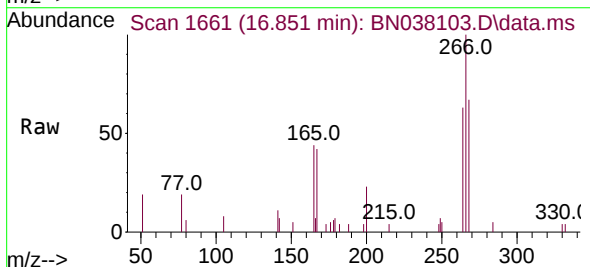
Instrument :
BNA_N
ClientSampleId :
PB170167BS

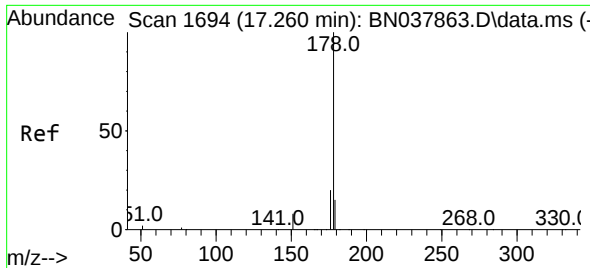
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.6	18.3	27.5
215	48.1	38.6	58.0



#24
Pentachlorophenol
Concen: 0.567 ng
RT: 16.851 min Scan# 1661
Delta R.T. -0.024 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.2	50.9	76.3
268	65.4	54.3	81.5

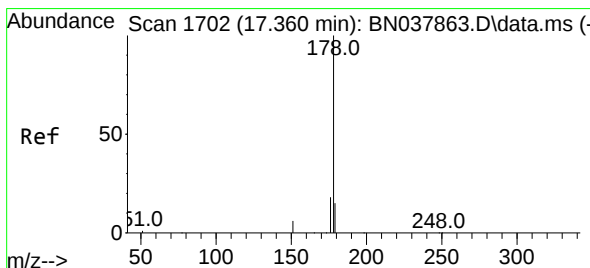
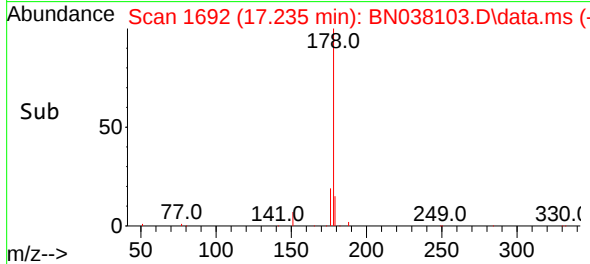
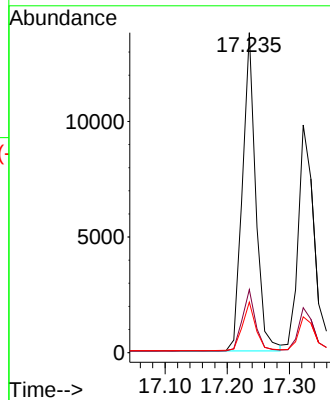
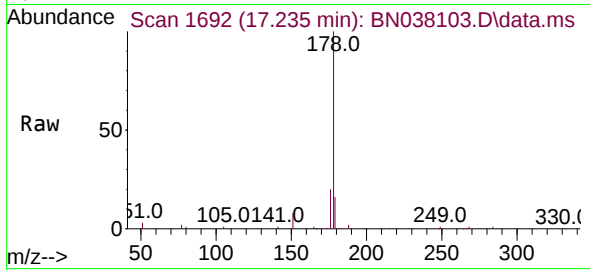




#25
Phenanthrene
Concen: 0.374 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.025 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

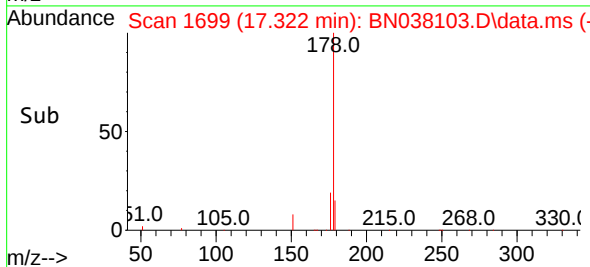
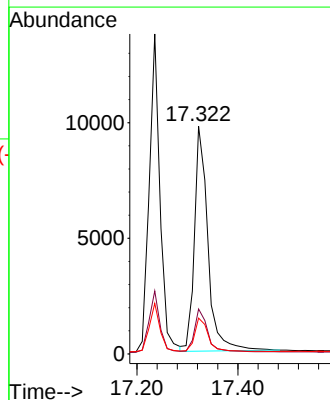
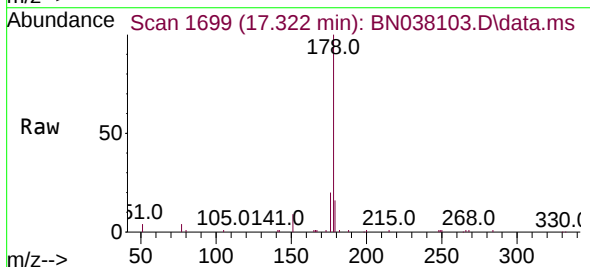
Instrument :
BNA_N
ClientSampleId :
PB170167BS

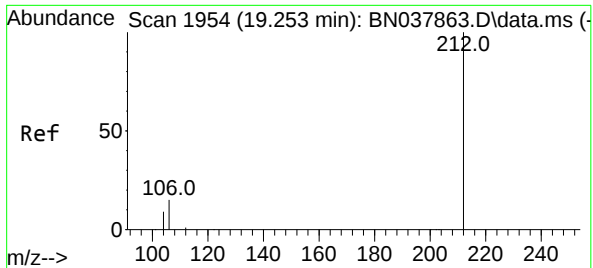
Tgt Ion:178 Resp: 20460
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.379 ng
RT: 17.322 min Scan# 1699
Delta R.T. -0.037 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:178 Resp: 18013
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.340 ng

RT: 19.229 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN038103.D

Acq: 20 Oct 2025 18:33

Instrument :

BNA_N

ClientSampleId :

PB170167BS

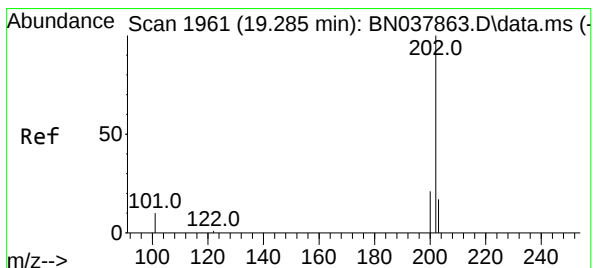
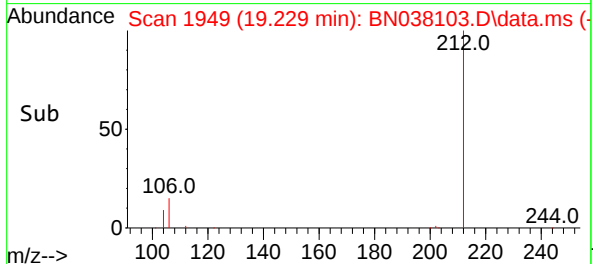
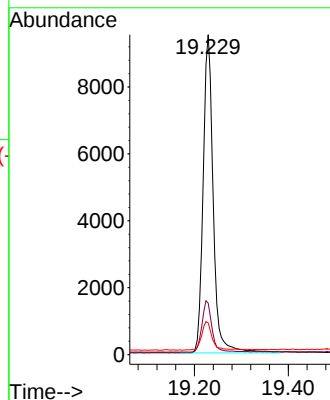
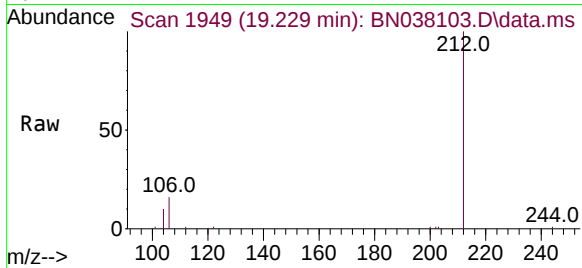
Tgt Ion:212 Resp: 14218

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.328 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.028 min

Lab File: BN038103.D

Acq: 20 Oct 2025 18:33

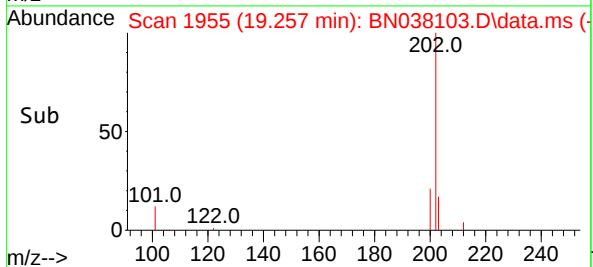
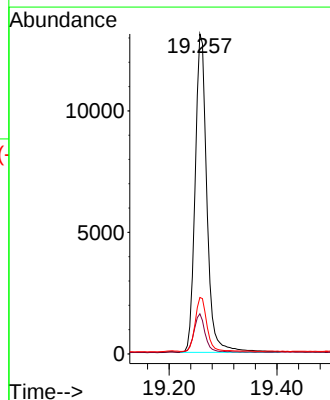
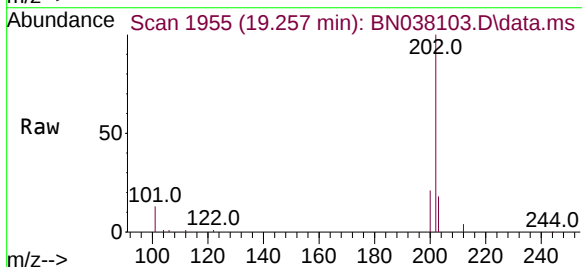
Tgt Ion:202 Resp: 19776

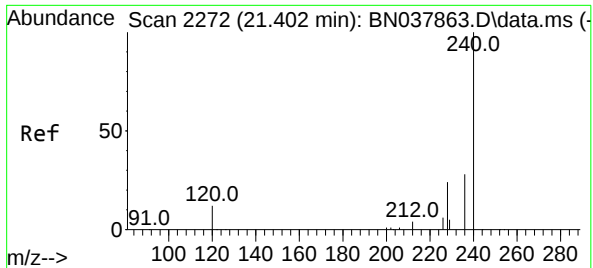
Ion Ratio Lower Upper

202 100

101 11.4 9.3 13.9

203 17.3 13.6 20.4

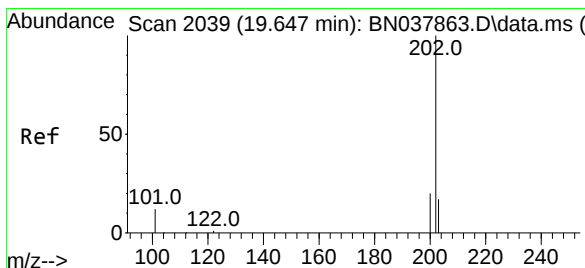
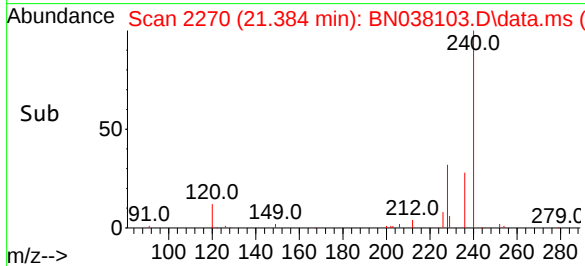
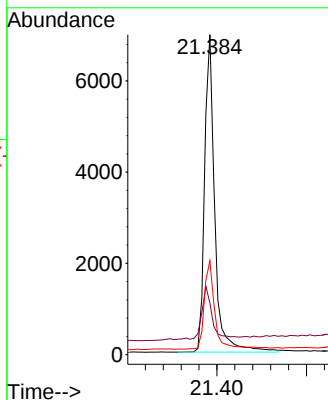
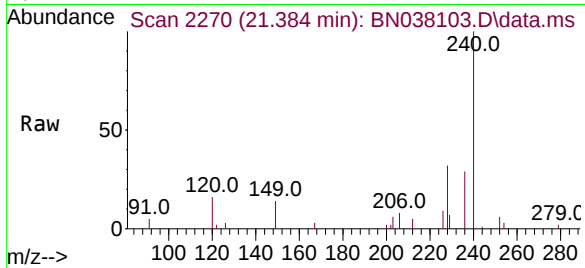




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

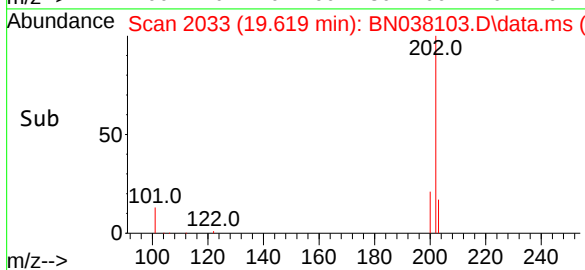
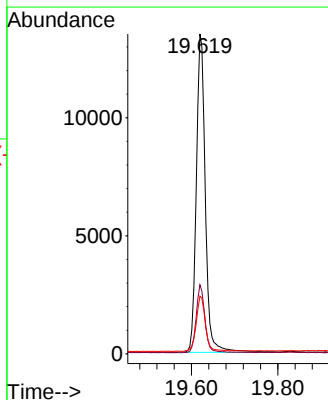
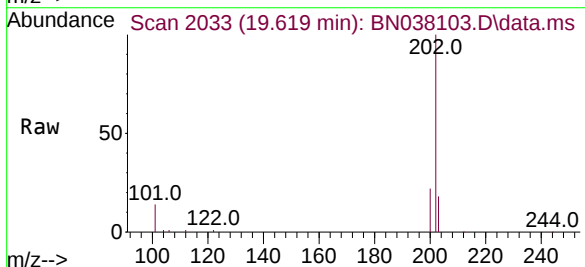
Instrument :
BNA_N
ClientSampleId :
PB170167BS

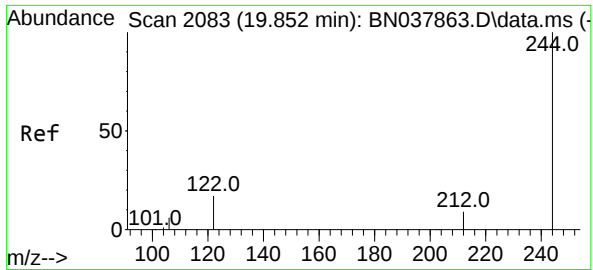
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.2	11.4	17.2
236	29.4	23.0	34.6



#30
Pyrene
Concen: 0.451 ng
RT: 19.619 min Scan# 2033
Delta R.T. -0.028 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.7	25.1
203	17.5	14.2	21.4

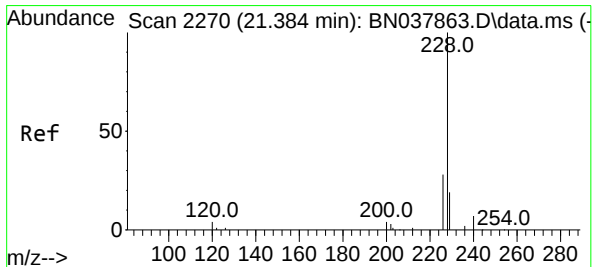
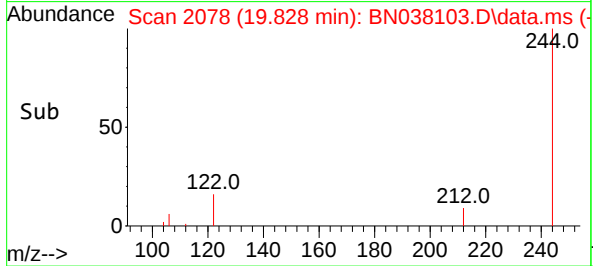
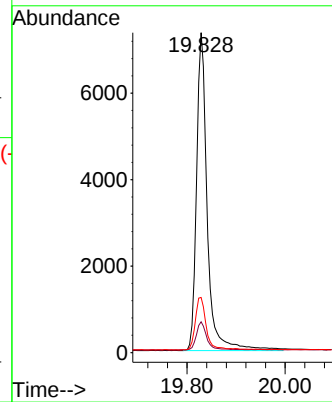
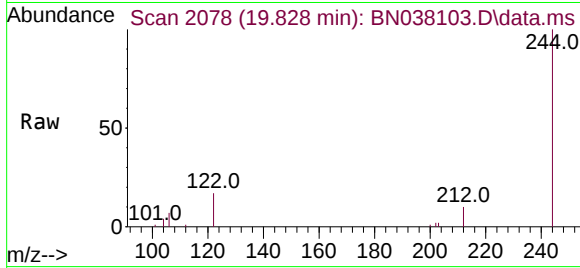




#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.828 min Scan# 2083
Delta R.T. -0.023 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

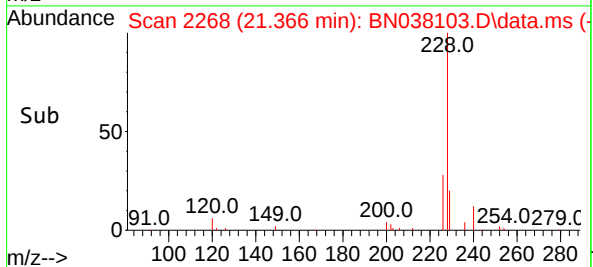
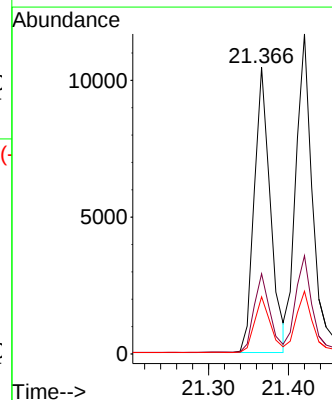
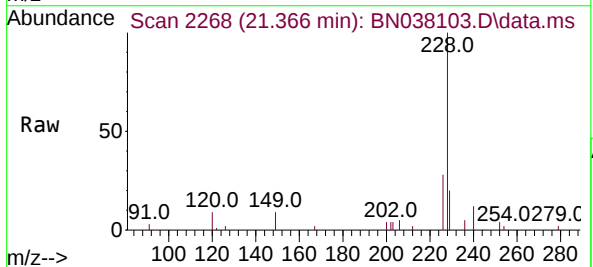
Instrument :
BNA_N
ClientSampleId :
PB170167BS

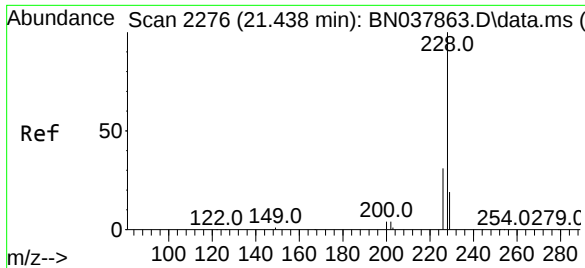
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	17.2	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.380 ng
RT: 21.366 min Scan# 2268
Delta R.T. -0.018 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	19.9	15.6	23.4

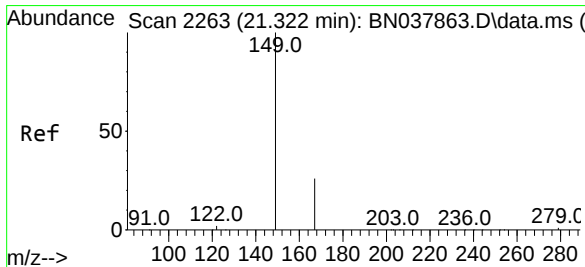
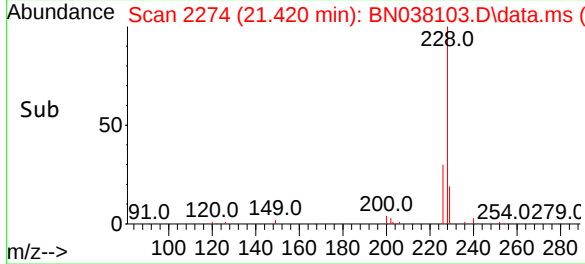
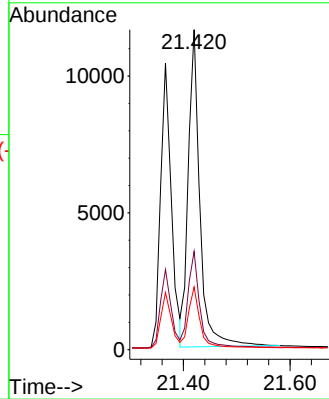
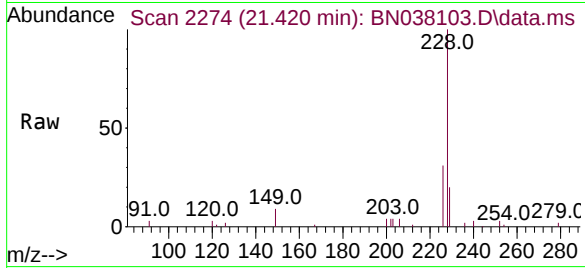




#33
Chrysene
Concen: 0.423 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

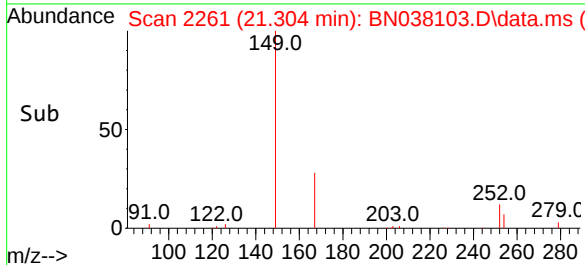
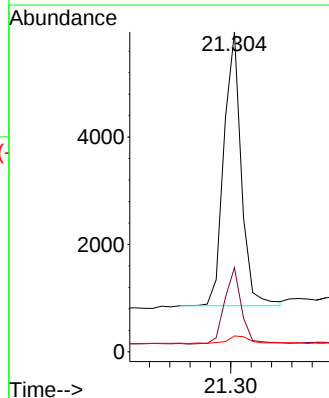
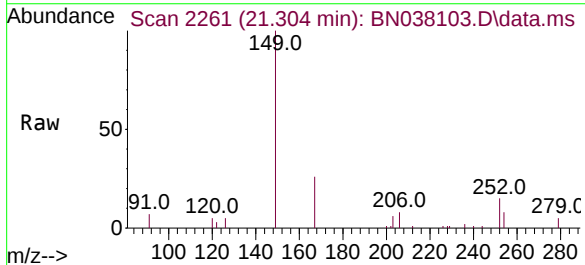
Instrument :
BNA_N
ClientSampleId :
PB170167BS

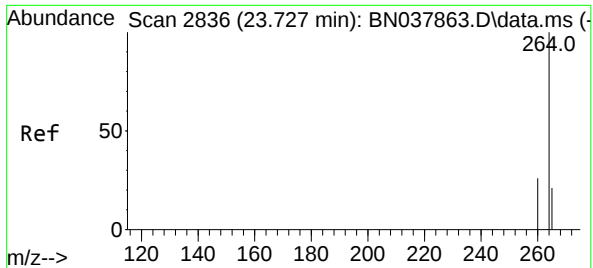
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.6	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.018 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

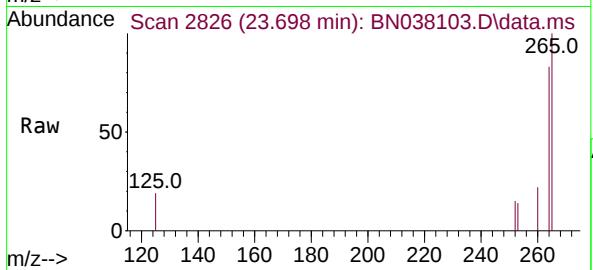
Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.5	20.4	30.6
279	3.4	2.4	3.6



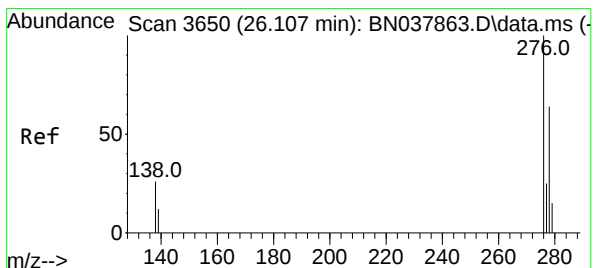
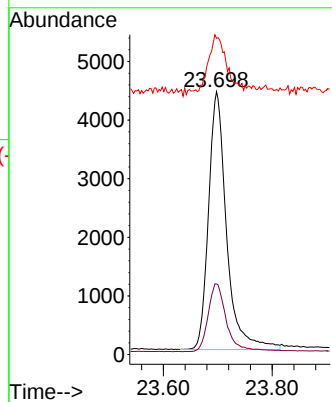
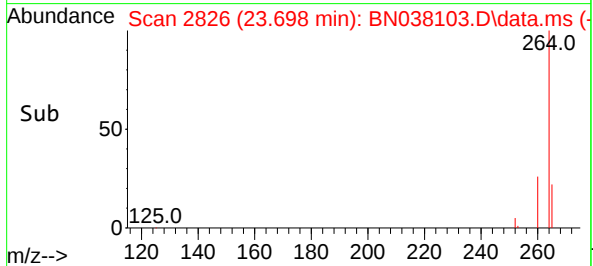


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.698 min Scan# 2826
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Instrument :
BNA_N
ClientSampleId :
PB170167BS

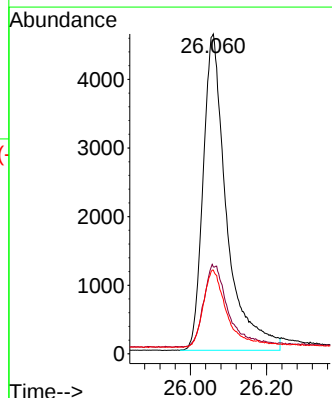
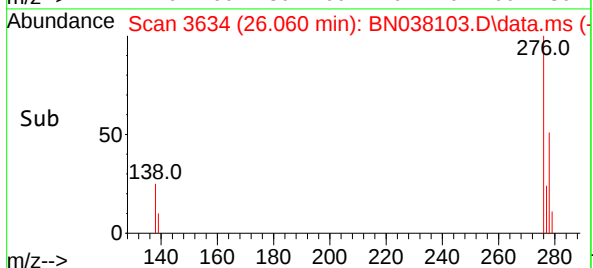
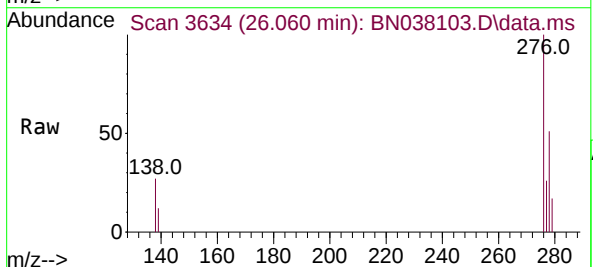


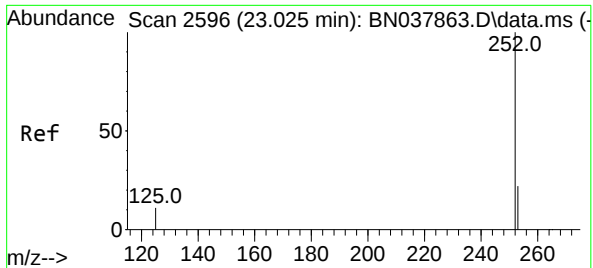
Tgt Ion:264 Resp: 10158
Ion Ratio Lower Upper
264 100
260 26.8 21.5 32.3
265 120.3 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 26.060 min Scan# 3634
Delta R.T. -0.047 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

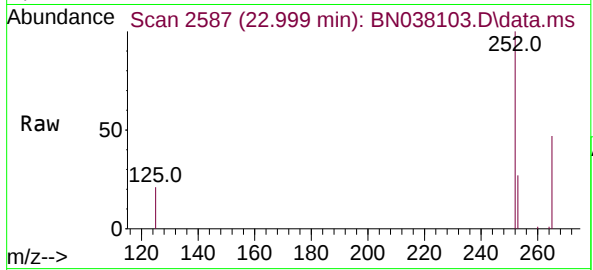
Tgt Ion:276 Resp: 19707
Ion Ratio Lower Upper
276 100
138 27.1 21.4 32.0
277 24.9 20.3 30.5



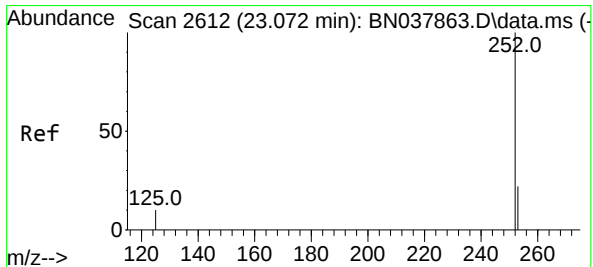
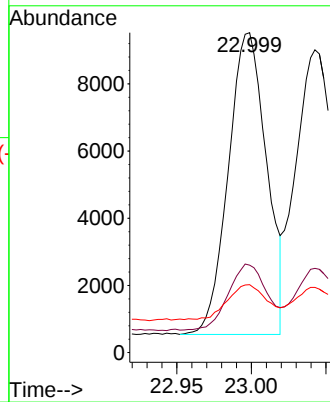


#37
Benzo(b)fluoranthene
Concen: 0.366 ng
RT: 22.999 min Scan# 21
Delta R.T. -0.026 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Instrument :
BNA_N
ClientSampleId :
PB170167BS

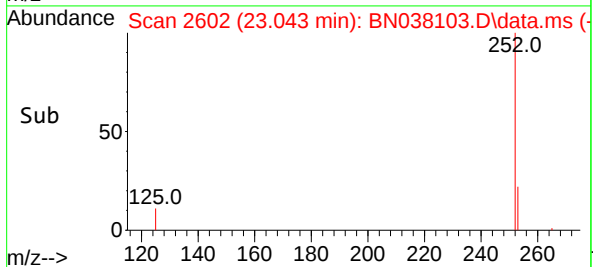
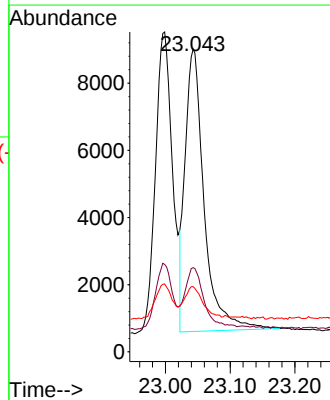
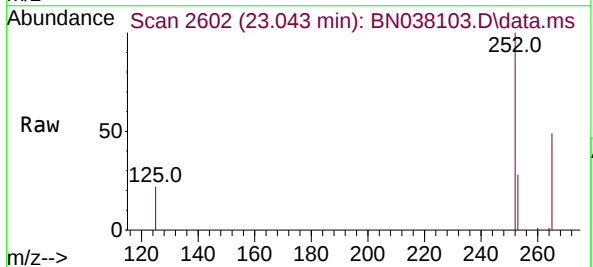


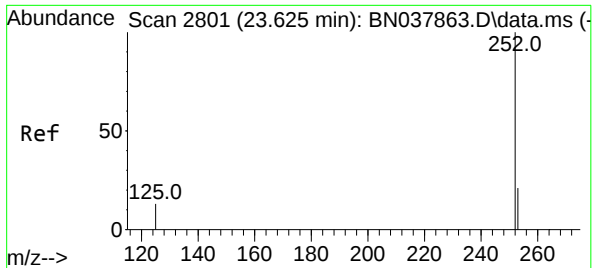
Tgt Ion:252 Resp: 16016
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.0
125 21.2 13.0 19.4#



#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.043 min Scan# 2602
Delta R.T. -0.029 min
Lab File: BN038103.D
Acq: 20 Oct 2025 18:33

Tgt Ion:252 Resp: 17177
Ion Ratio Lower Upper
252 100
253 27.8 19.5 29.3
125 21.6 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.412 ng

RT: 23.595 min Scan# 21

Delta R.T. -0.029 min

Lab File: BN038103.D

Acq: 20 Oct 2025 18:33

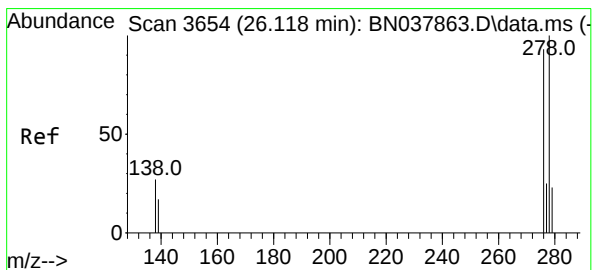
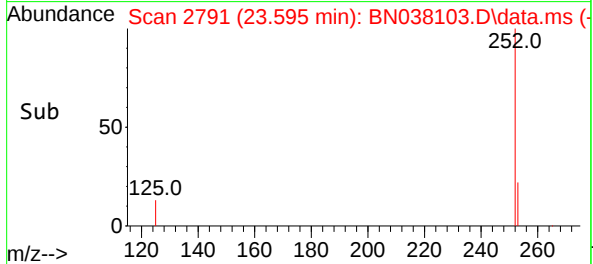
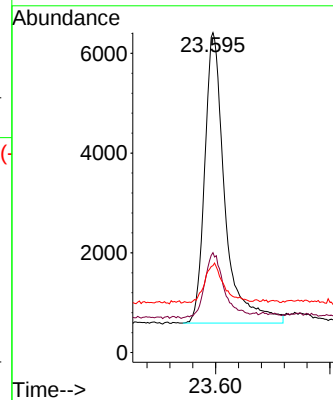
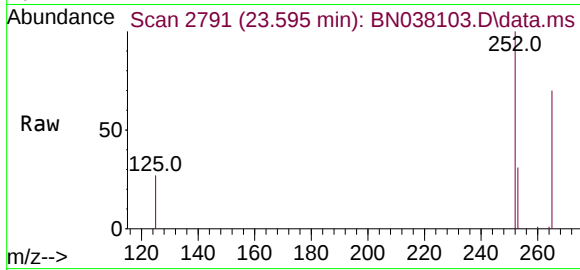
Instrument :

BNA_N

ClientSampleId :

PB170167BS

Tgt Ion:252	Resp:	14266
Ion Ratio	Lower	Upper
252	100	
253	31.2	20.6 30.8#
125	27.2	16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

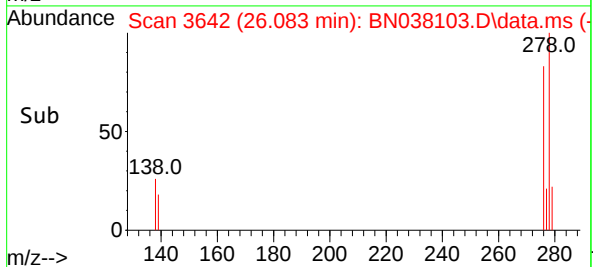
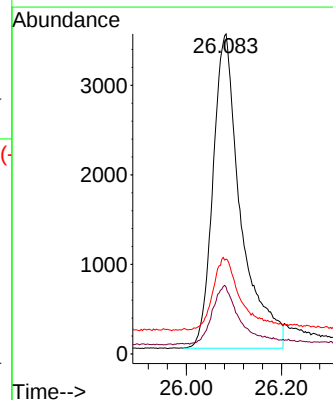
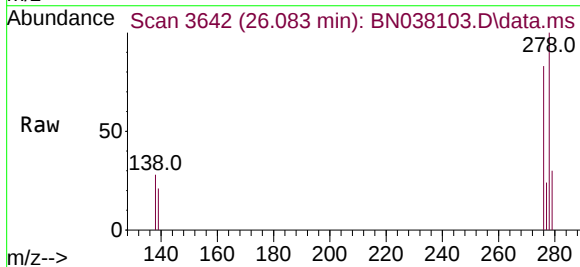
RT: 26.083 min Scan# 3642

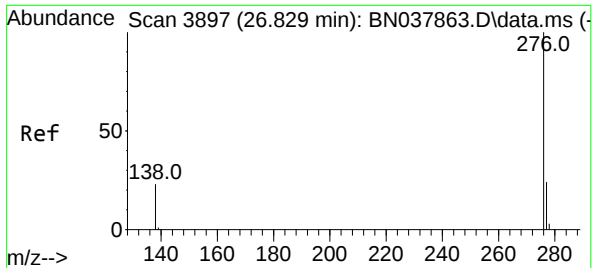
Delta R.T. -0.035 min

Lab File: BN038103.D

Acq: 20 Oct 2025 18:33

Tgt Ion:278	Resp:	14225
Ion Ratio	Lower	Upper
278	100	
139	20.9	15.4 23.2
279	29.7	20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.467 ng

RT: 26.773 min Scan# 38

Delta R.T. -0.056 min

Lab File: BN038103.D

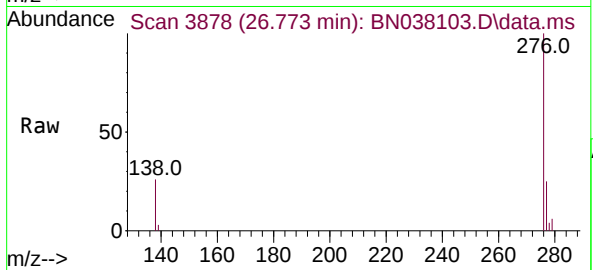
Acq: 20 Oct 2025 18:33

Instrument :

BNA_N

ClientSampleId :

PB170167BS



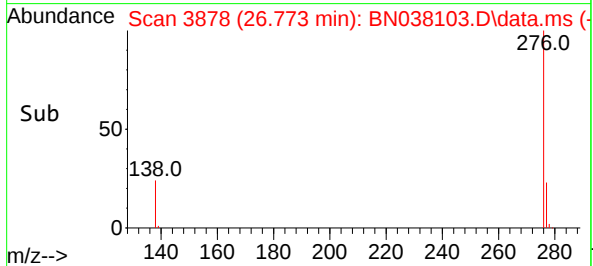
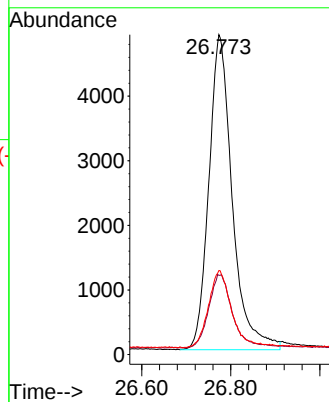
Tgt Ion:276 Resp: 17781

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.4

138 26.3 19.8 29.8



Report of Analysis

Client: Tetra Tech NUS, Inc.	Date Collected:	
Project: NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID: PB170167BSD	SDG No.:	Q3371
Lab Sample ID: PB170167BSD	Matrix:	Water
Analytical Method: SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date:	10/20/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.35		1	0.070	0.20	0.20	ug/L	10/20/25 19:09	PB170167
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.36			30 - 150		90%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.31			30 - 150		78%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.38			55 - 111		95%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.42			53 - 106		105%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.47			58 - 132		117%	SPK: 0.4		
INTERNAL STANDARDS		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	15900								
1146-65-2	Naphthalene-d8	42800								
15067-26-2	Acenaphthene-d10	20500								
1517-22-2	Phenanthrene-d10	36700								
1719-03-5	Chrysene-d12	24700								
1520-96-3	Perylene-d12	22600								

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\BN102025\
 Data File : BN038104.D
 Acq On : 20 Oct 2025 19:09
 Operator : RC/JU
 Sample : PB170167BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 2

Instrument :
 BNA_N
 ClientSampleId :
 PB170167BSD

Quant Time: Oct 21 11:07:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:23:15 2025
 Response via : Initial Calibration

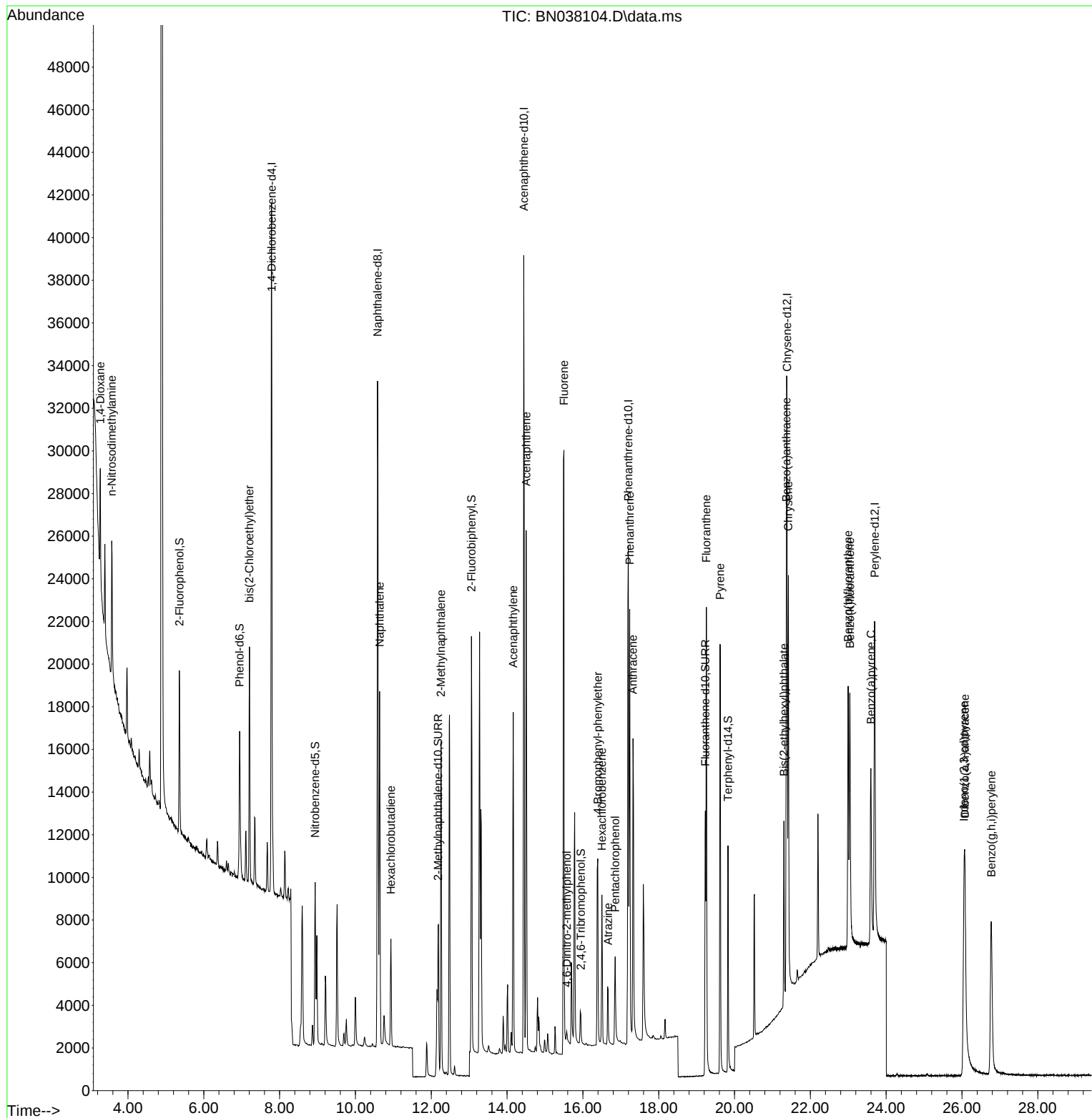
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	15910	0.800	ng	0.00
7) Naphthalene-d8	10.584	136	42753	0.800	ng	# 0.00
13) Acenaphthene-d10	14.441	164	20532	0.800	ng	0.00
19) Phenanthrene-d10	17.198	188	36706	0.800	ng	0.00
29) Chrysene-d12	21.384	240	24714	0.800	ng	0.00
35) Perylene-d12	23.698	264	22637	0.800	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	6099	0.336	ng	0.00
5) Phenol-d6	6.944	99	6803	0.285	ng	0.00
8) Nitrobenzene-d5	8.939	82	6235	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.182	152	10623	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	1090	0.280	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	17593	0.419	ng	0.00
27) Fluoranthene-d10	19.229	212	14369	0.311	ng	0.00
31) Terphenyl-d14	19.829	244	11484	0.467	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	2828	0.350	ng	# 32
3) n-Nitrosodimethylamine	3.572	42	3897	0.363	ng	# 96
6) bis(2-Chloroethyl)ether	7.204	93	7932	0.358	ng	99
9) Naphthalene	10.637	128	21247	0.361	ng	99
10) Hexachlorobutadiene	10.936	225	3847	0.383	ng	# 100
12) 2-Methylnaphthalene	12.258	142	11710	0.304	ng	99
16) Acenaphthylene	14.163	152	18216	0.391	ng	99
17) Acenaphthene	14.505	154	11253	0.339	ng	98
18) Fluorene	15.499	166	14097	0.351	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	584	0.389	ng	# 16
21) 4-Bromophenyl-phenylether	16.391	248	4187	0.350	ng	# 91
22) Hexachlorobenzene	16.503	284	5338	0.368	ng	99
23) Atrazine	16.664	200	2736	0.300	ng	98
24) Pentachlorophenol	16.851	266	2496	0.502	ng	98
25) Phenanthrene	17.235	178	20656	0.342	ng	99
26) Anthracene	17.322	178	18137	0.346	ng	100
28) Fluoranthene	19.257	202	20126	0.303	ng	99
30) Pyrene	19.620	202	19840	0.407	ng	100
32) Benzo(a)anthracene	21.366	228	15035	0.348	ng	99
33) Chrysene	21.420	228	18042	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.304	149	6818	0.399	ng	97
36) Indeno(1,2,3-cd)pyrene	26.054	276	20018	0.387	ng	98
37) Benzo(b)fluoranthene	22.996	252	16353	0.335	ng	# 91
38) Benzo(k)fluoranthene	23.043	252	18188	0.370	ng	# 91
39) Benzo(a)pyrene	23.598	252	14317	0.371	ng	# 86
40) Dibenzo(a,h)anthracene	26.078	278	15131	0.375	ng	93
41) Benzo(g,h,i)perylene	26.773	276	17222	0.406	ng	99

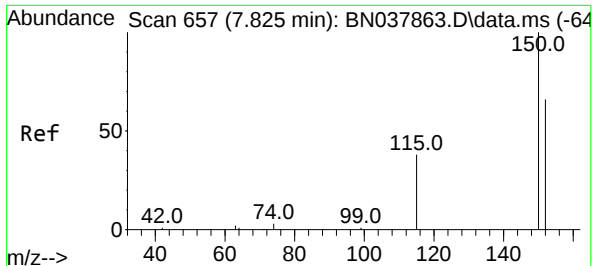
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102025\
Data File : BN038104.D
Acq On : 20 Oct 2025 19:09
Operator : RC/JU
Sample : PB170167BSD
Misc :
ALS Vial : 5 Sample Multiplier: 2

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

Quant Time: Oct 21 11:07:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:23:15 2025
Response via : Initial Calibration

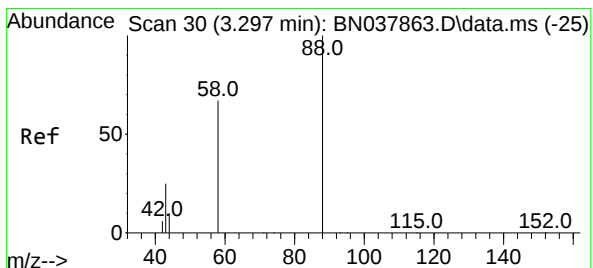
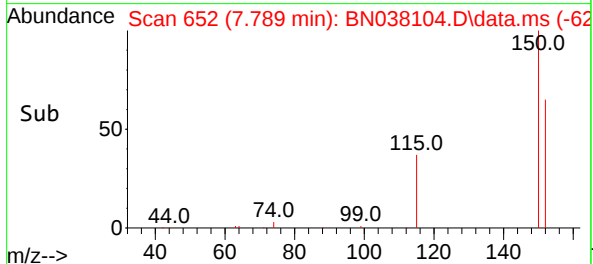
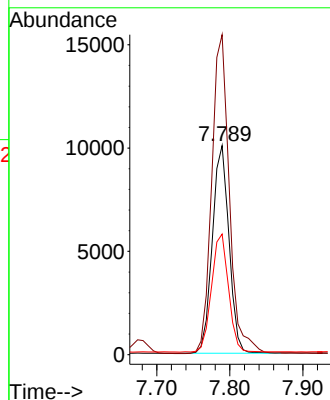
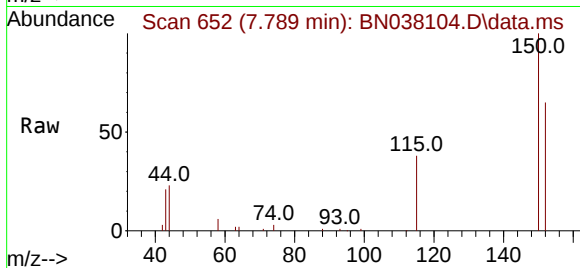




#1
1,4-Dichlorobenzene-d4
Concen: 0.800 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

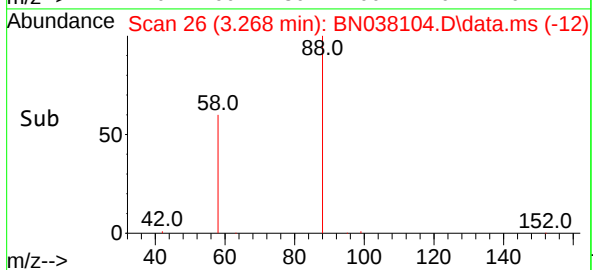
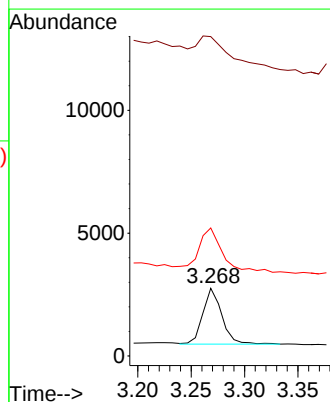
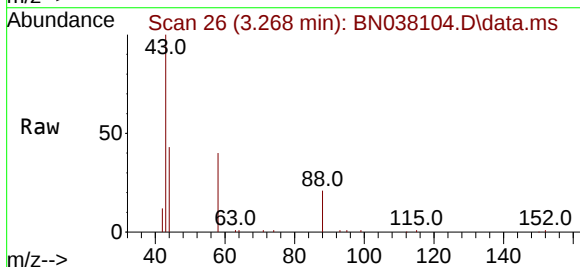
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

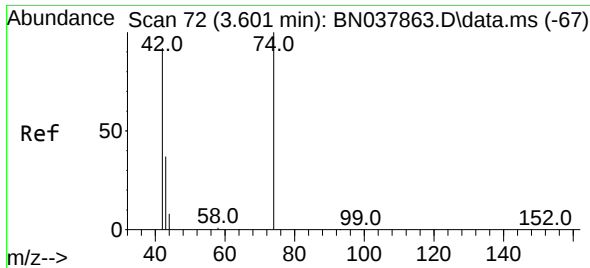
Tgt Ion:152 Resp: 15910
Ion Ratio Lower Upper
152 100
150 153.1 121.0 181.4
115 57.7 47.4 71.0



#2
1,4-Dioxane
Concen: 0.350 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion: 88 Resp: 2828
Ion Ratio Lower Upper
88 100
43 112.6 26.6 39.8#
58 103.9 58.9 88.3#

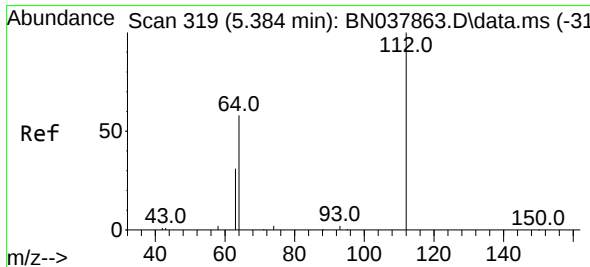
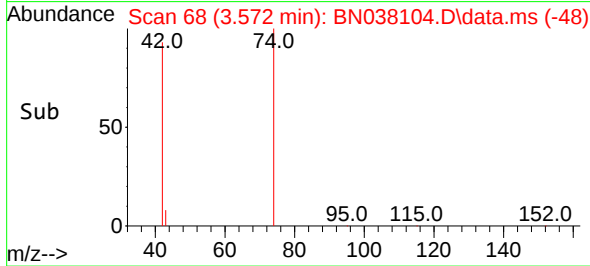
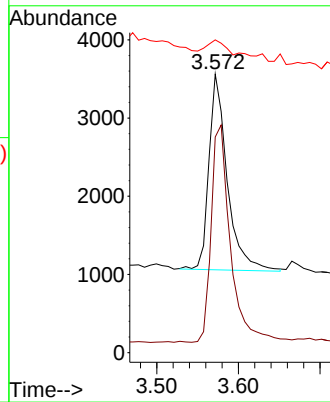
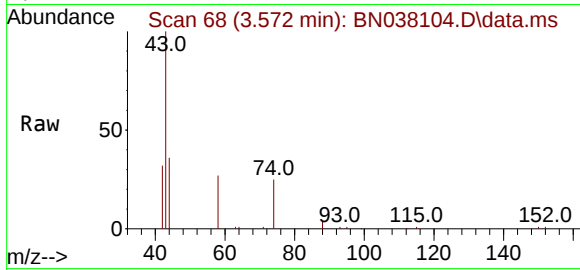




#3
n-Nitrosodimethylamine
Concen: 0.363 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

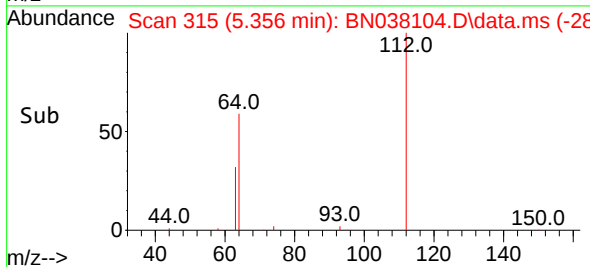
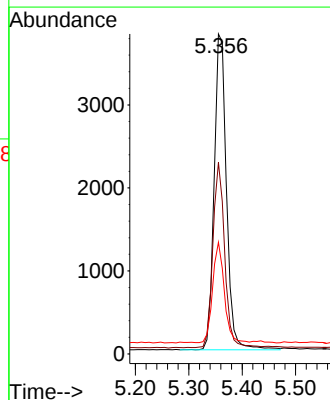
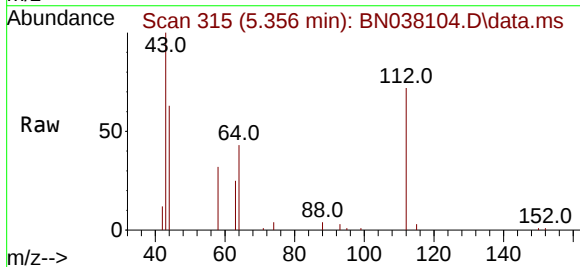
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

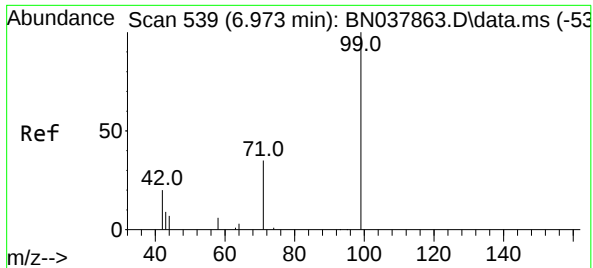
Tgt Ion: 42 Resp: 3897
Ion Ratio Lower Upper
42 100
74 116.8 93.4 140.0
44 18.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.336 ng
RT: 5.356 min Scan# 315
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion: 112 Resp: 6099
Ion Ratio Lower Upper
112 100
64 56.5 44.6 66.8
63 30.0 24.9 37.3

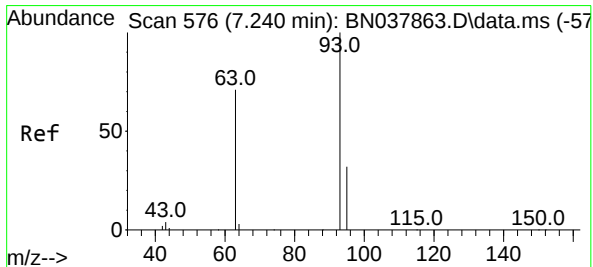
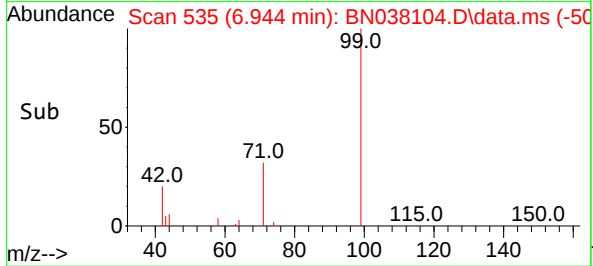
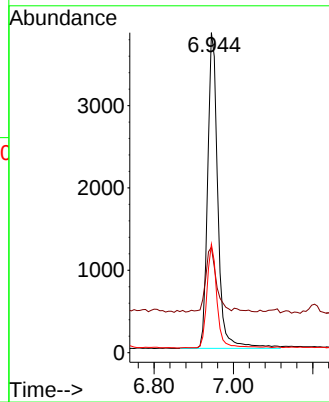
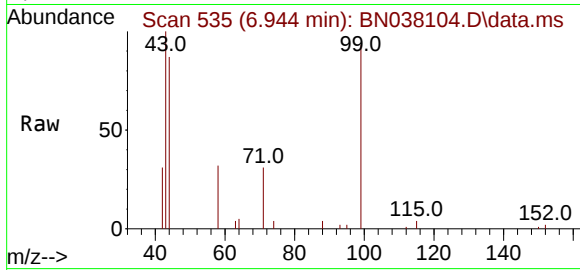




#5
Phenol-d6
Concen: 0.285 ng
RT: 6.944 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

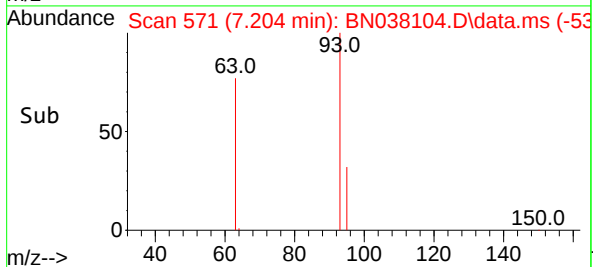
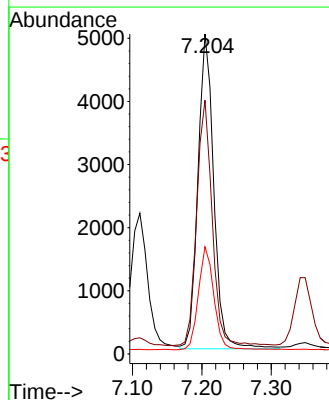
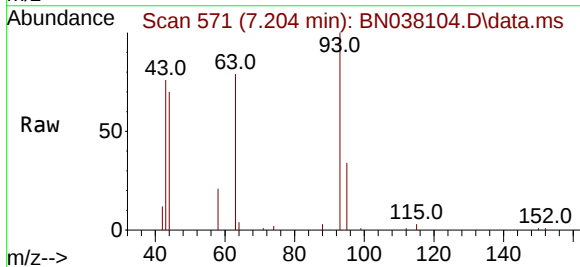
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

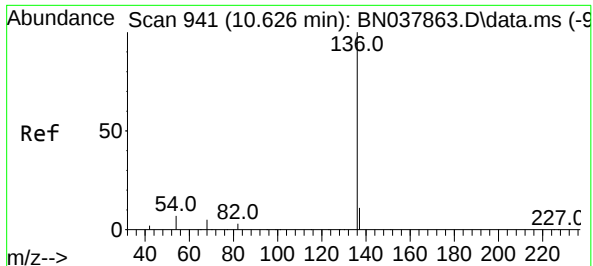
Tgt Ion:	99	Resp:	6803
Ion	Ratio	Lower	Upper
99	100		
42	21.8	17.2	25.8
71	32.0	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 7.204 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:	93	Resp:	7932
Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.1	90.1
95	32.1	25.4	38.2

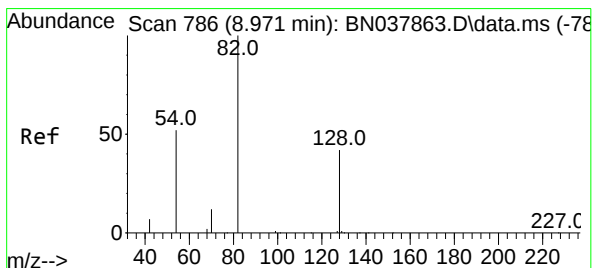
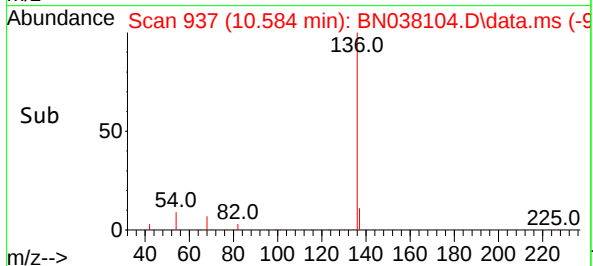
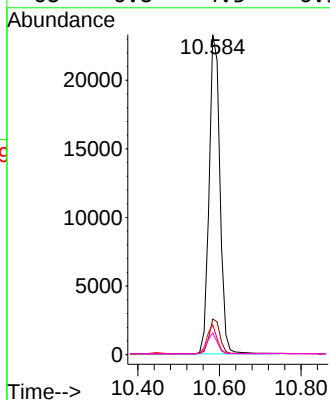
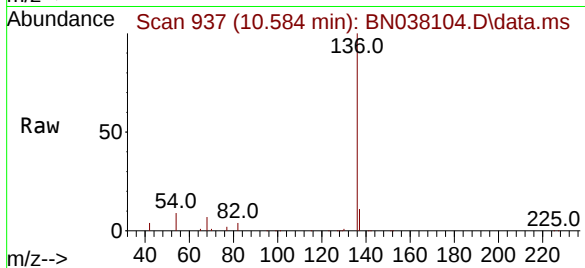




#7
Naphthalene-d8
Concen: 0.800 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

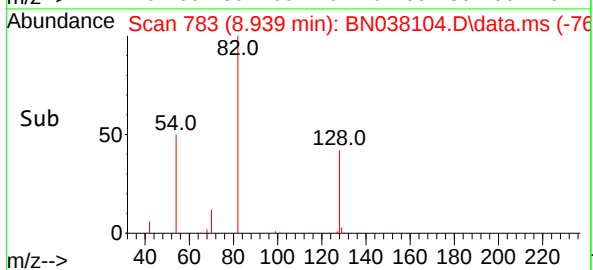
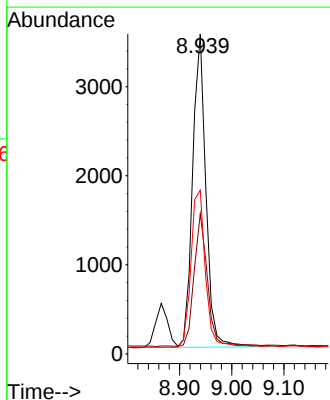
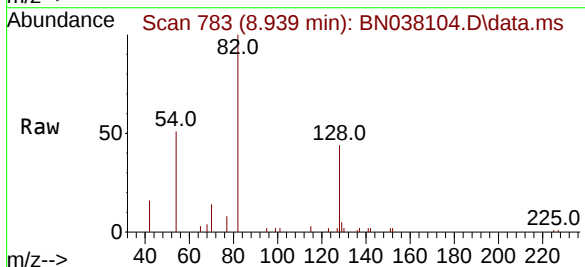
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

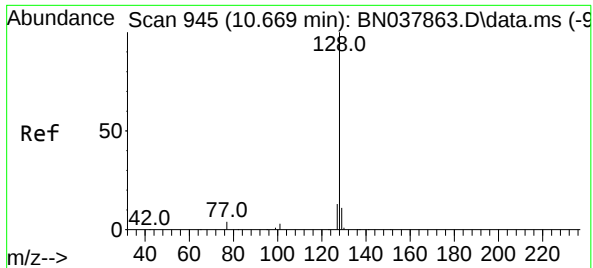
Tgt Ion:	136	Resp:	42753
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.4
54	9.4	5.8	8.8#
68	6.8	4.3	6.5#



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.939 min Scan# 783
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:	82	Resp:	6235
Ion Ratio	Lower	Upper	
82	100		
128	43.8	34.8	52.2
54	51.1	42.2	63.2

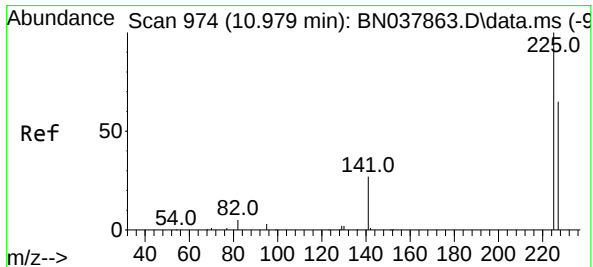
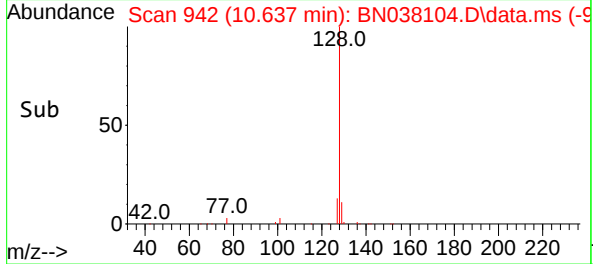
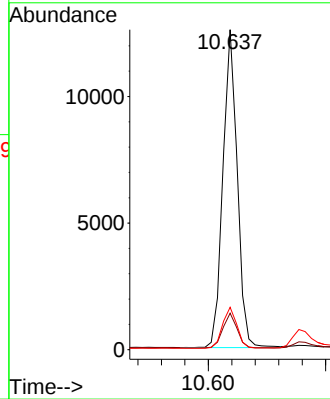
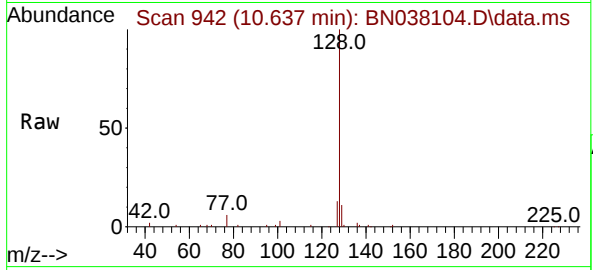




#9
Naphthalene
Concen: 0.361 ng
RT: 10.637 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

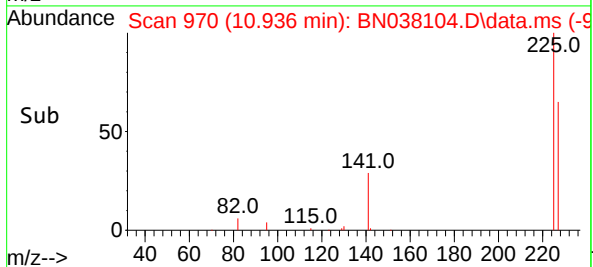
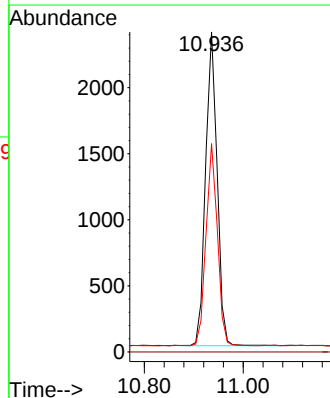
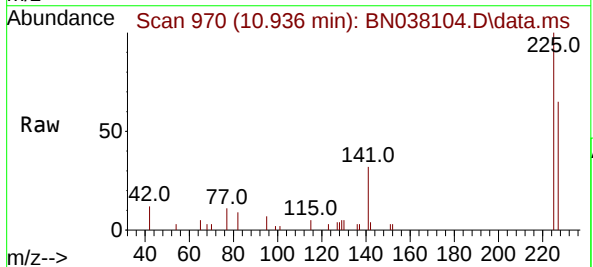
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

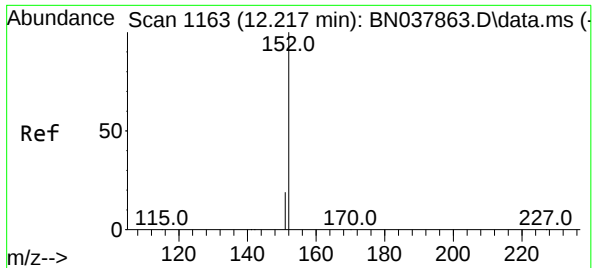
Tgt Ion:	128	Resp:	21247
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.3	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.936 min Scan# 970
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:	225	Resp:	3847
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.4	77.2

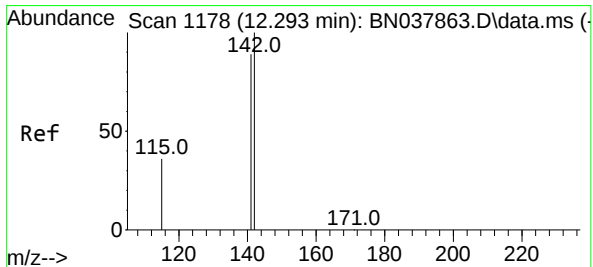
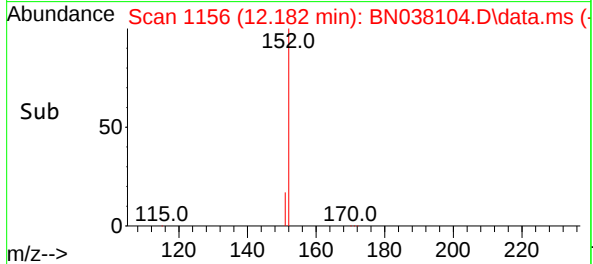
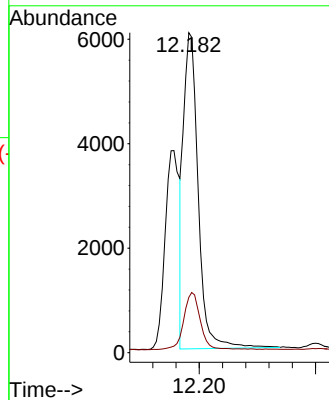
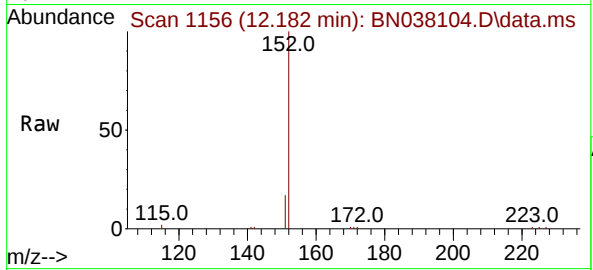




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.182 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

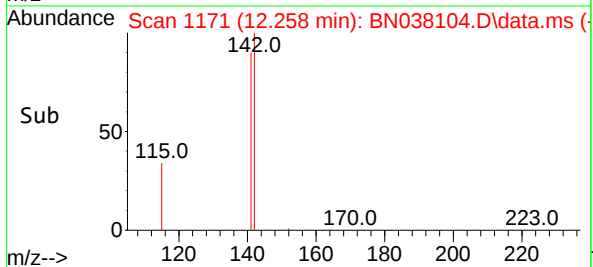
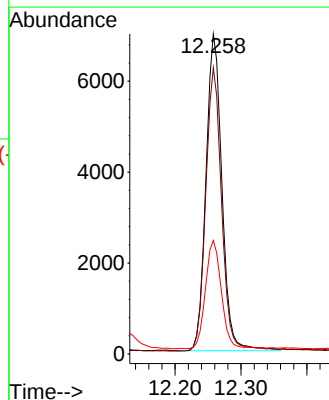
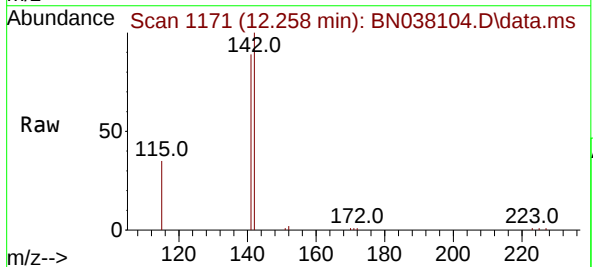
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

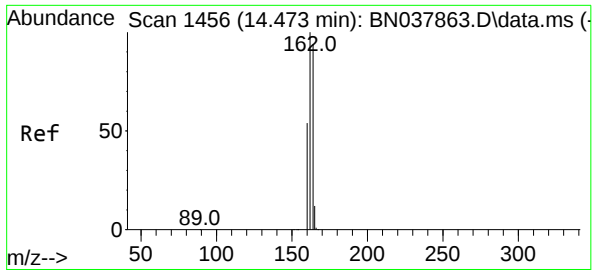
Tgt Ion:152 Resp: 10623
Ion Ratio Lower Upper
152 100
151 20.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.304 ng
RT: 12.258 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:142 Resp: 11710
Ion Ratio Lower Upper
142 100
141 89.4 71.2 106.8
115 35.5 29.7 44.5

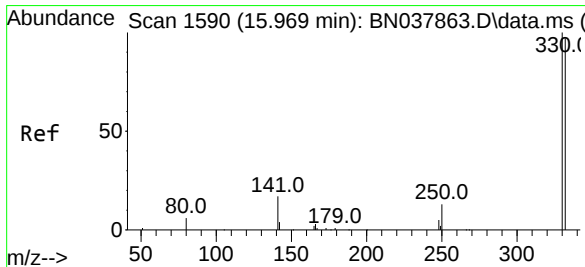
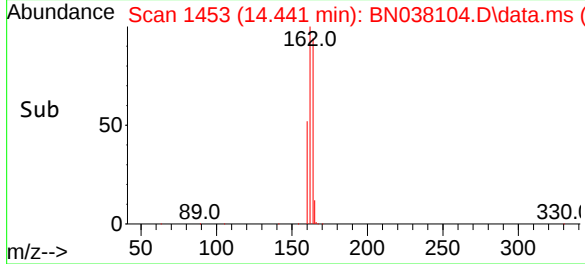
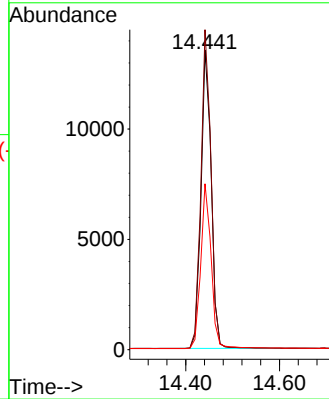
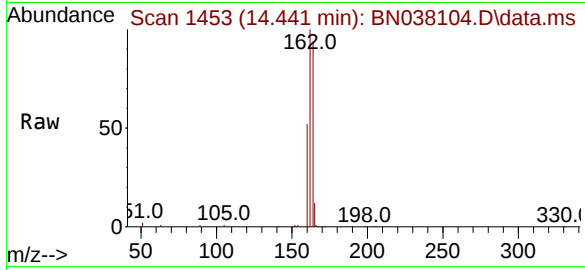




#13
Acenaphthene-d10
Concen: 0.800 ng
RT: 14.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

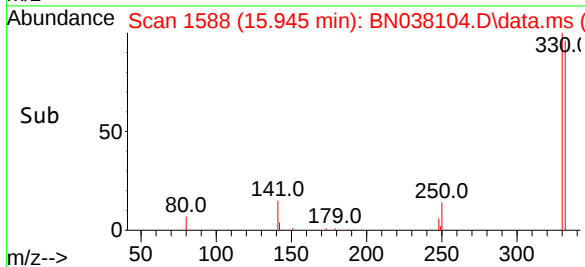
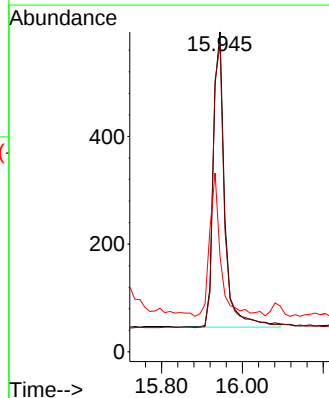
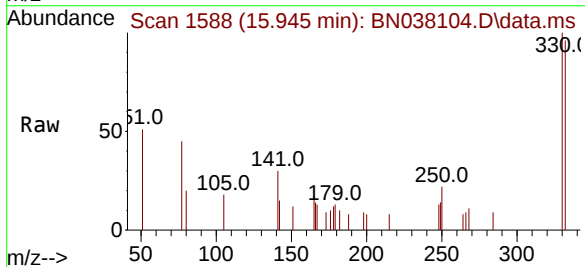
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

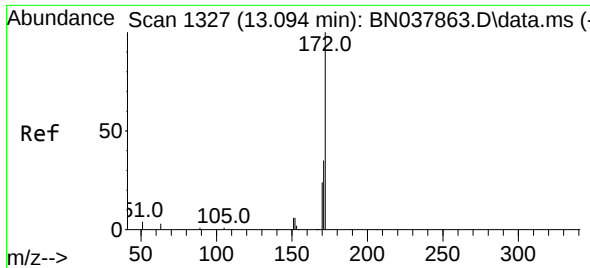
Tgt Ion:164 Resp: 20532
Ion Ratio Lower Upper
164 100
162 106.7 84.8 127.2
160 55.3 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.280 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:330 Resp: 1090
Ion Ratio Lower Upper
330 100
332 96.8 77.2 115.8
141 47.0 37.2 55.8

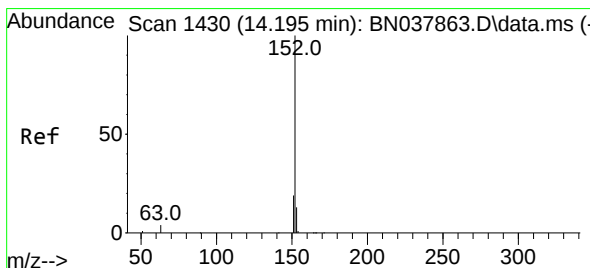
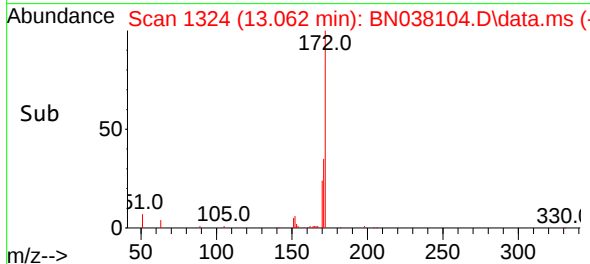
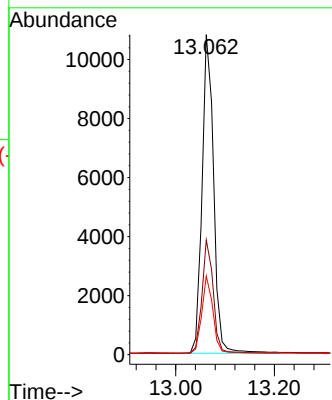
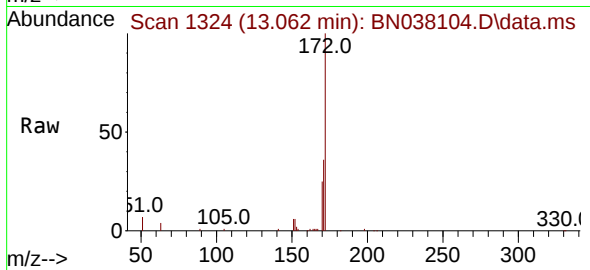




#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 13.062 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

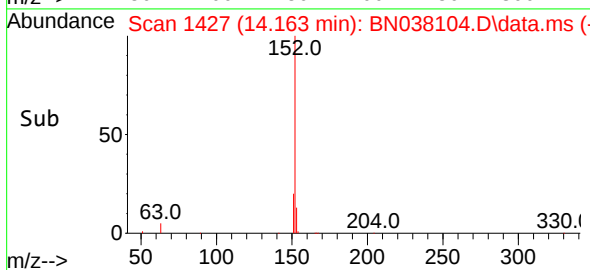
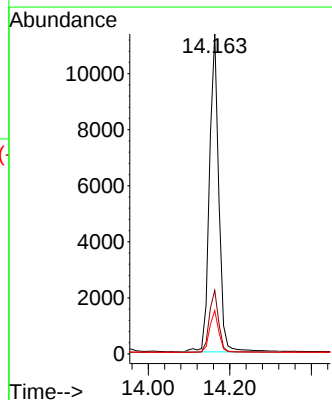
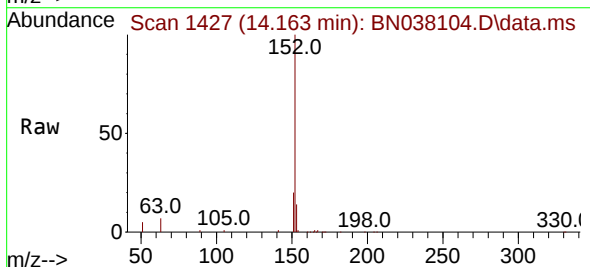
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

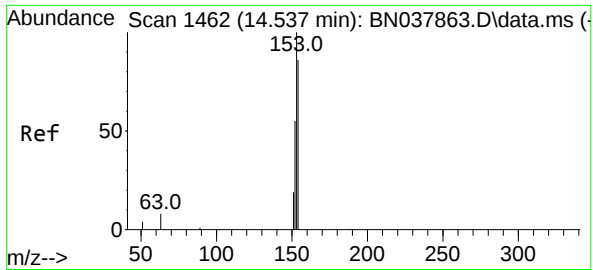
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.8
153	13.0	10.5	15.7

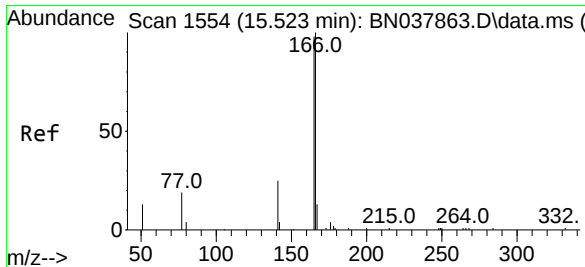
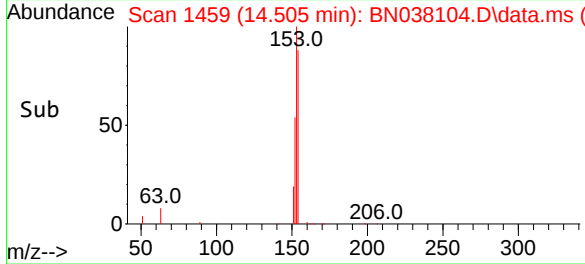
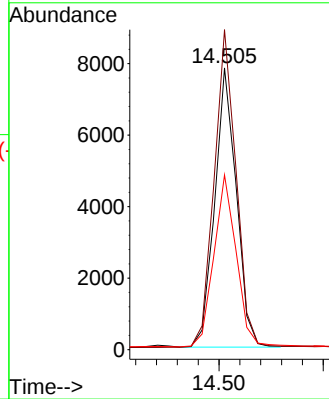
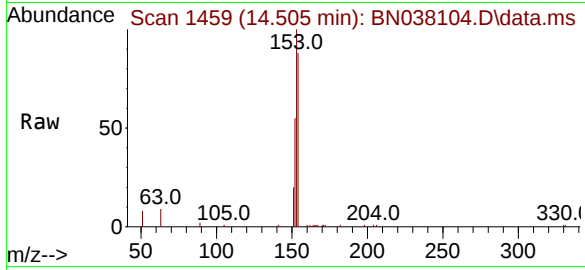




#17
Acenaphthene
Concen: 0.339 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

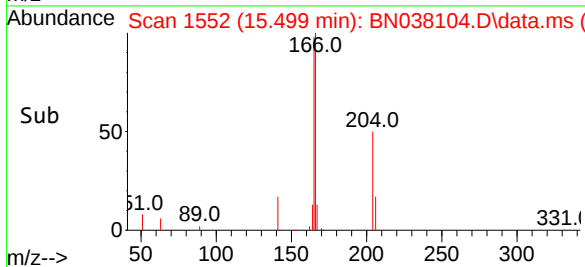
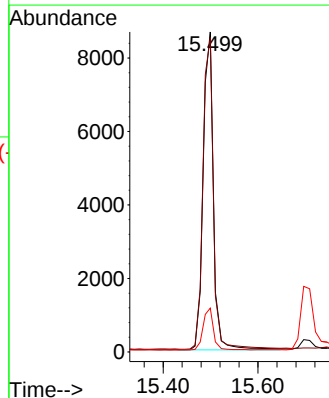
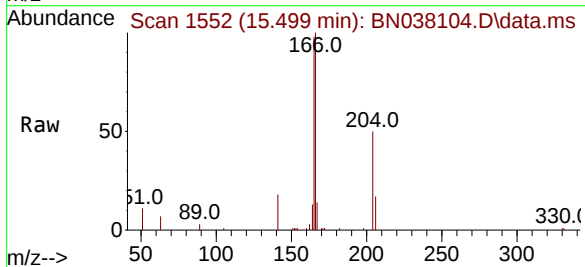
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

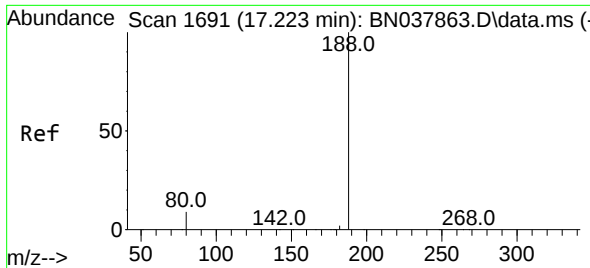
Tgt Ion:	154	Resp:	11253
Ion Ratio	Lower	Upper	
154	100		
153	116.4	90.5	135.7
152	64.5	51.8	77.8



#18
Fluorene
Concen: 0.351 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:	166	Resp:	14097
Ion Ratio	Lower	Upper	
166	100		
165	100.5	79.0	118.4
167	12.9	10.6	16.0

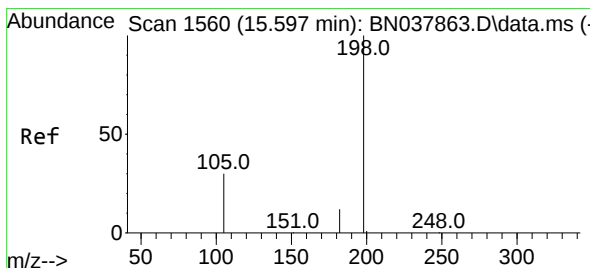
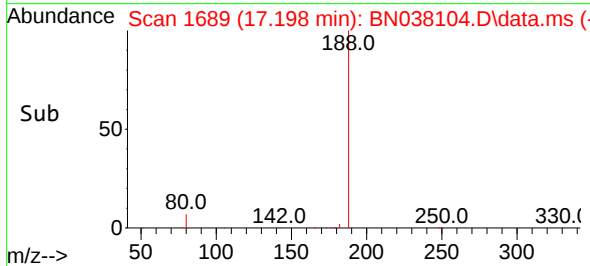
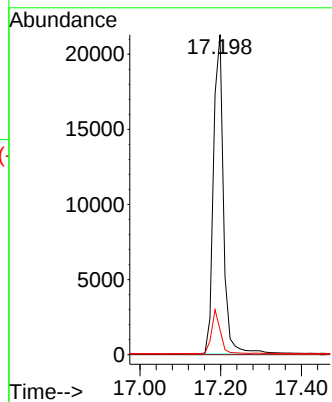
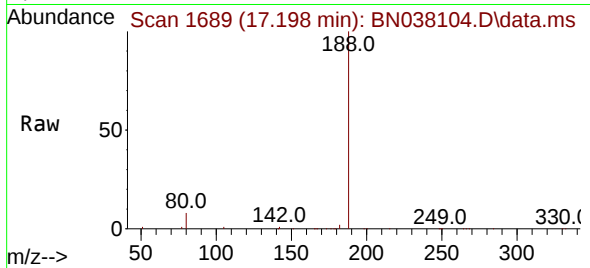




#19
Phenanthrene-d10
Concen: 0.800 ng
RT: 17.198 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

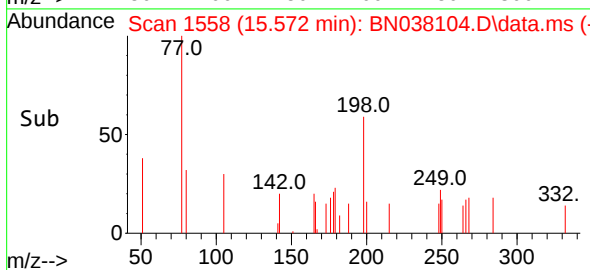
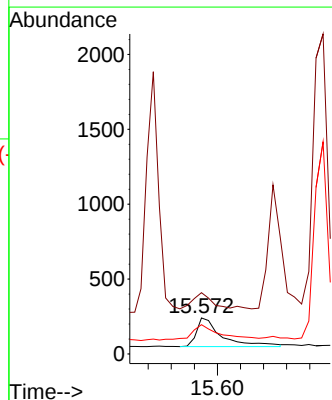
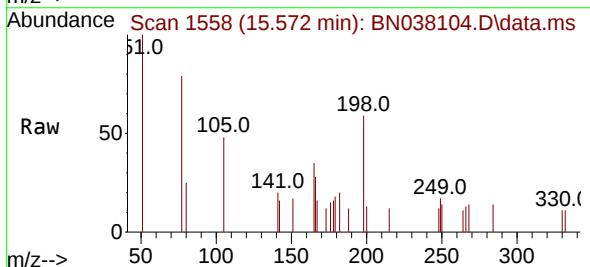
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

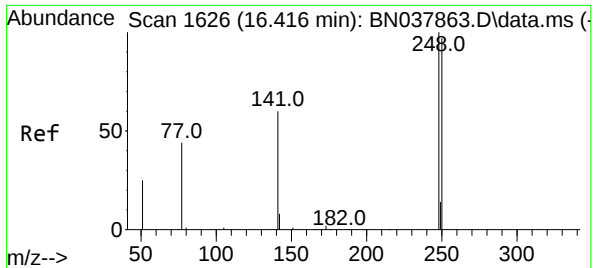
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	7.6	11.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
198	100		
51	169.7	59.1	88.7#
105	81.3	41.3	61.9#

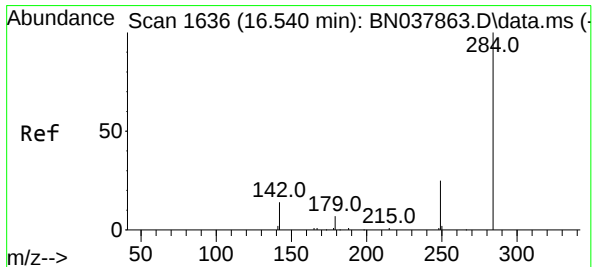
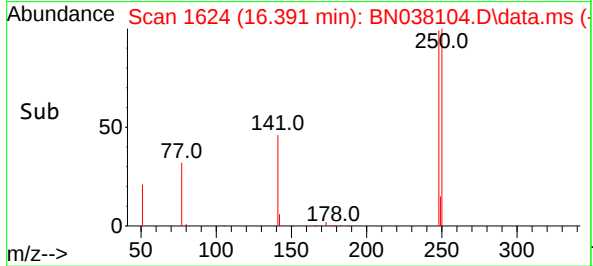
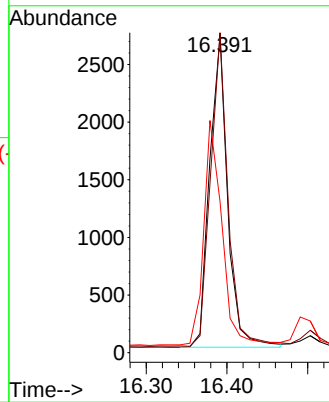
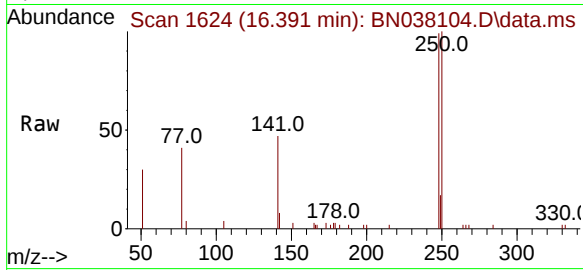




#21
4-Bromophenyl-phenylether
Concen: 0.350 ng
RT: 16.391 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

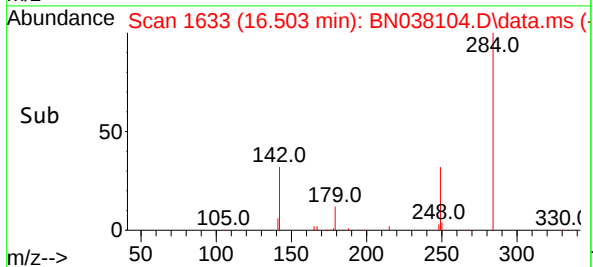
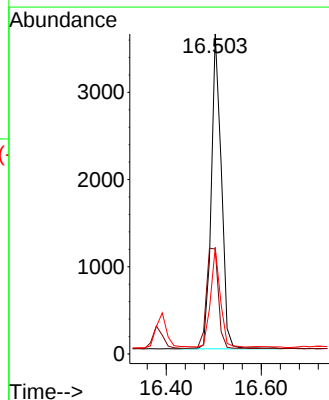
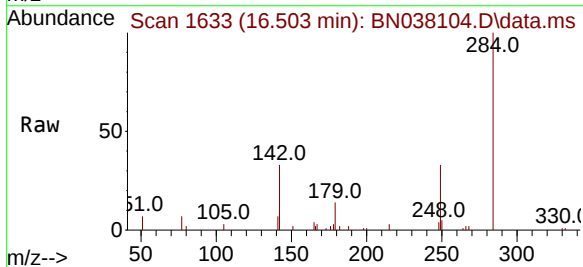
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

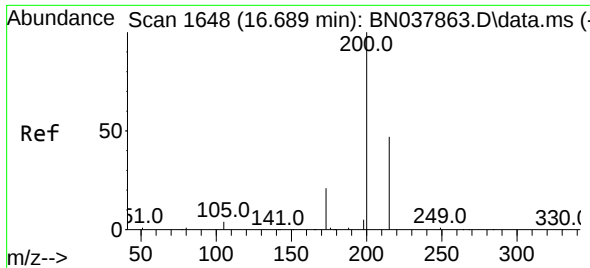
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.9	77.6	116.4
141	47.6	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	30.3	23.9	35.9

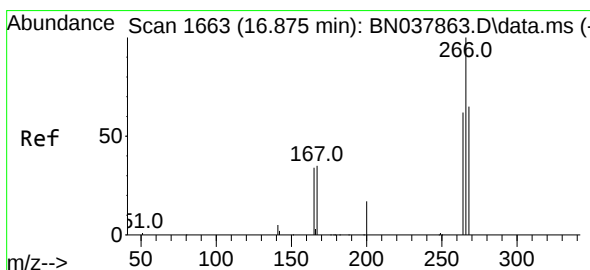
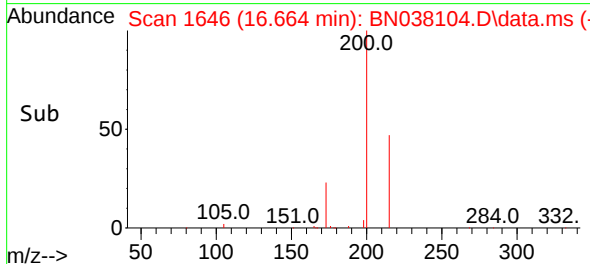
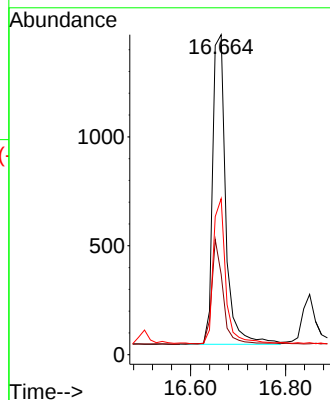
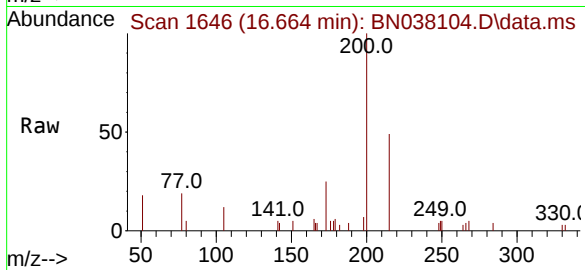




#23
Atrazine
Concen: 0.300 ng
RT: 16.664 min Scan# 1646
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

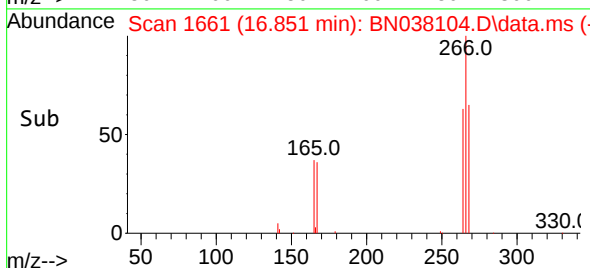
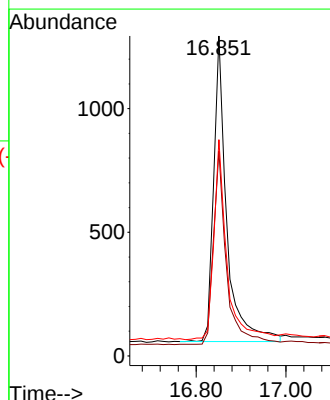
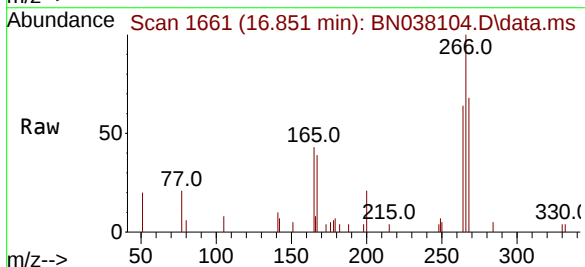
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

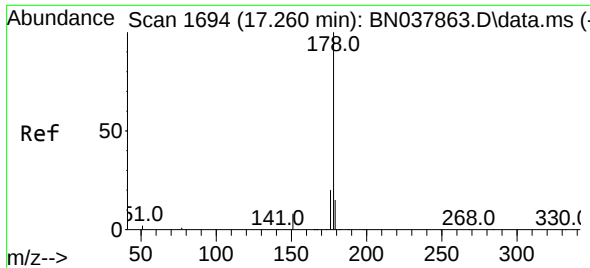
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.1	18.3	27.5
215	48.7	38.6	58.0



#24
Pentachlorophenol
Concen: 0.502 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.9	76.3
268	64.5	54.3	81.5

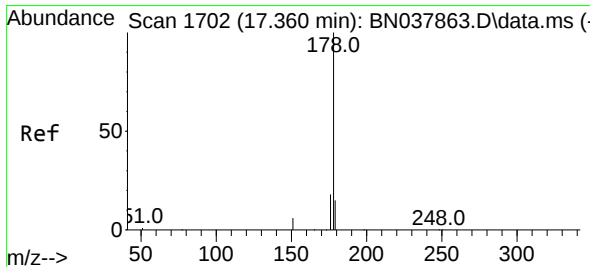
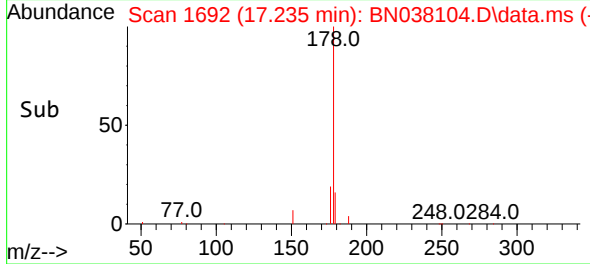
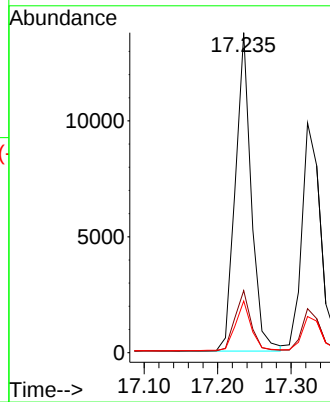
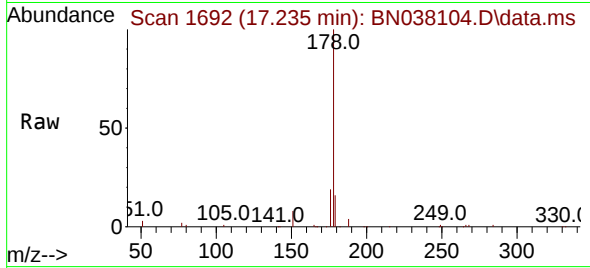




#25
Phenanthrene
Concen: 0.342 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

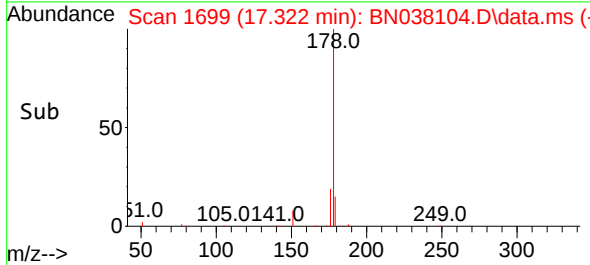
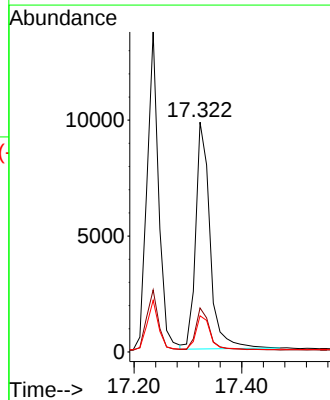
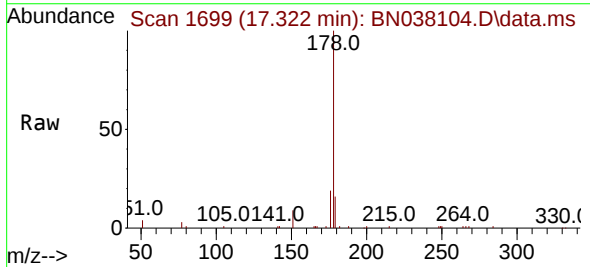
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

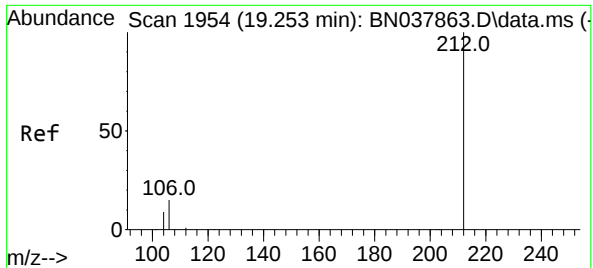
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.9	12.3	18.5



#26
Anthracene
Concen: 0.346 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5

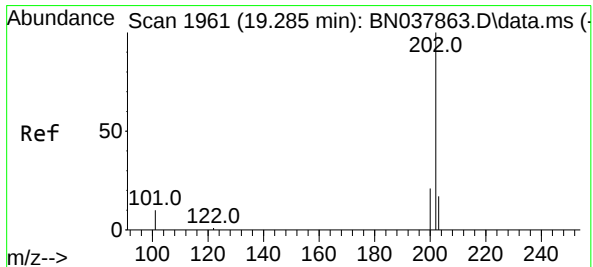
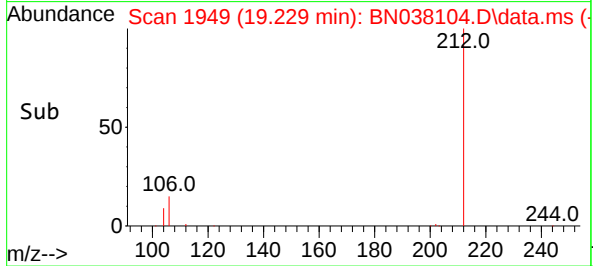
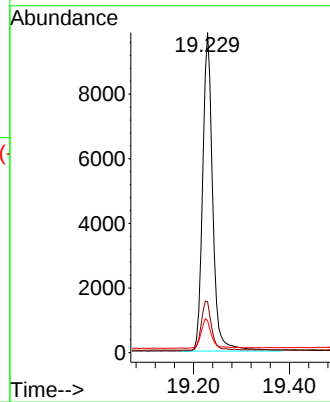
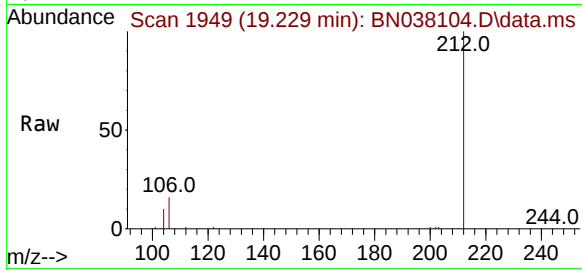




#27
Fluoranthene-d10
Concen: 0.311 ng
RT: 19.229 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

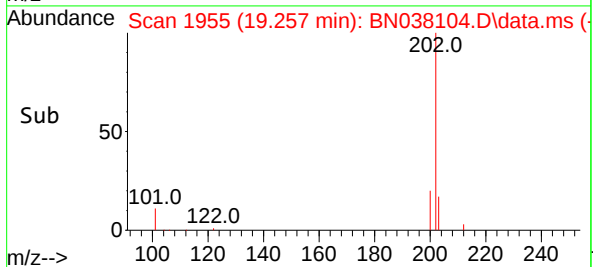
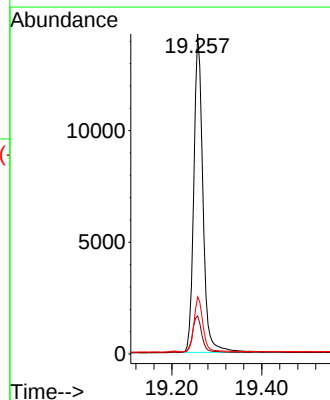
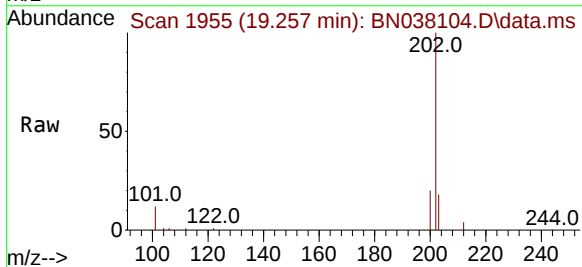
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

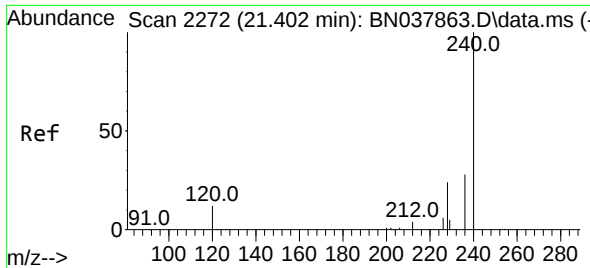
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.6	19.0
104	9.7	7.4	11.0



#28
Fluoranthene
Concen: 0.303 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.2	13.6	20.4

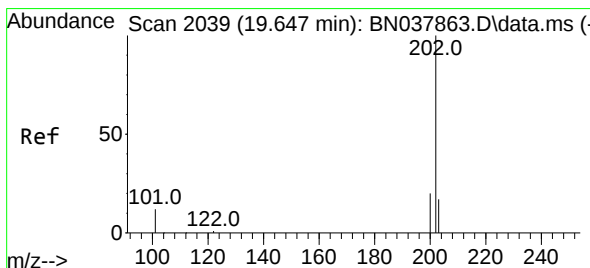
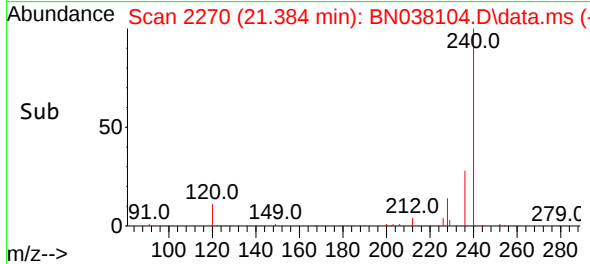
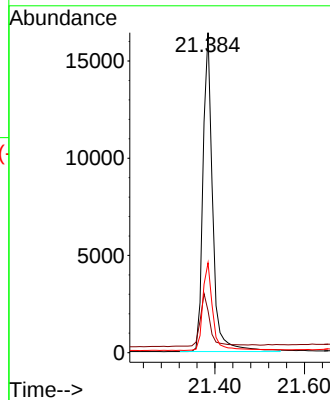
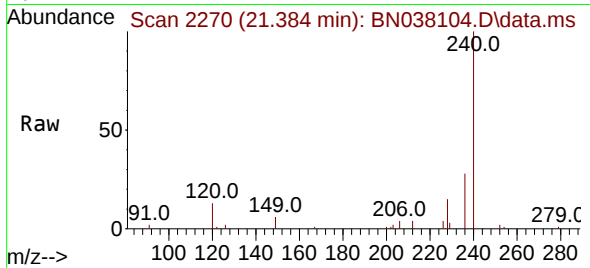




#29
Chrysene-d12
Concen: 0.800 ng
RT: 21.384 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

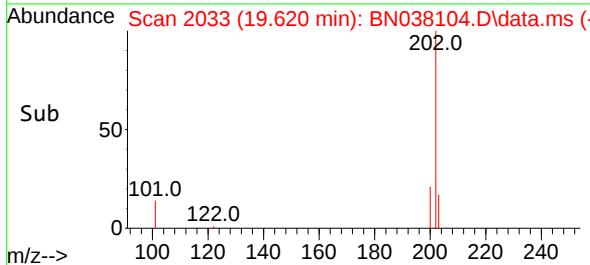
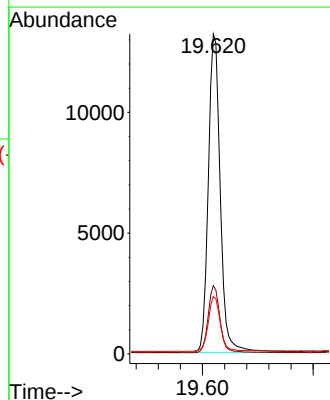
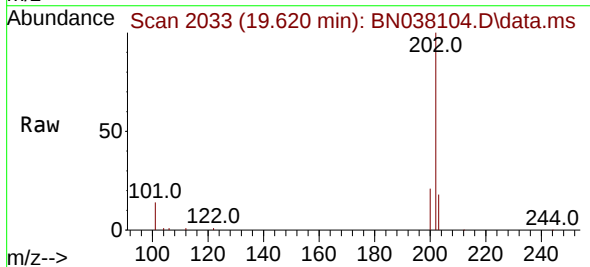
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

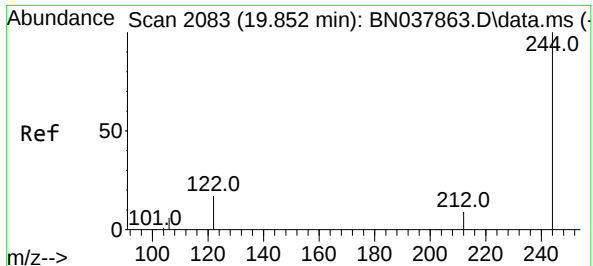
Tgt Ion:	240	Resp:	24714
Ion Ratio	Lower	Upper	
240	100		
120	13.1	11.4	17.2
236	28.1	23.0	34.6



#30
Pyrene
Concen: 0.407 ng
RT: 19.620 min Scan# 2033
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:	202	Resp:	19840
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.7	25.1
203	17.6	14.2	21.4

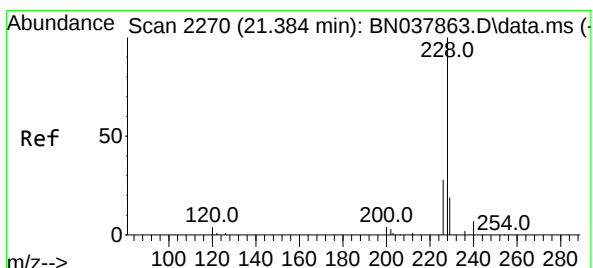
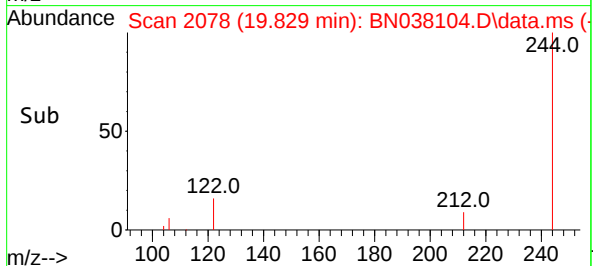
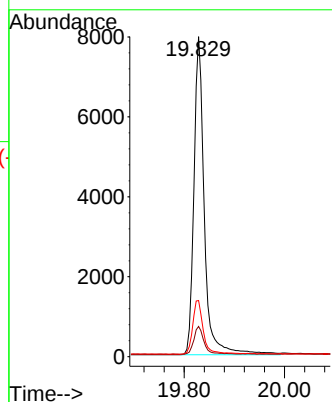
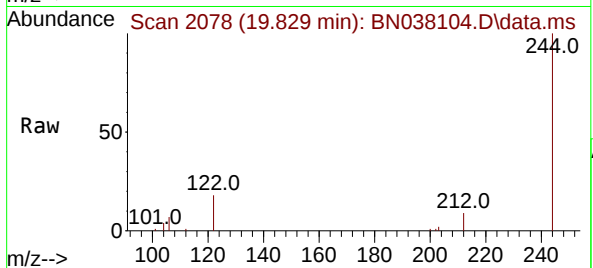




#31
Terphenyl-d14
Concen: 0.467 ng
RT: 19.829 min Scan# 2083
Delta R.T. -0.005 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

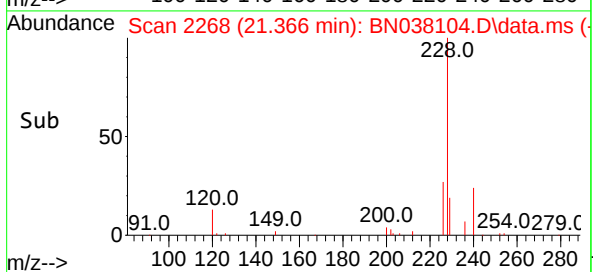
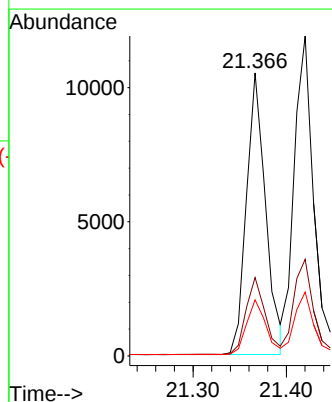
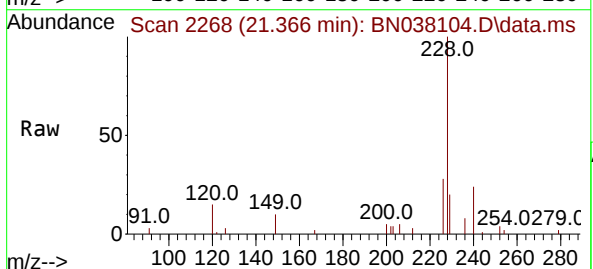
Instrument :
BNA_N
ClientSampleId :
PB170167BSD

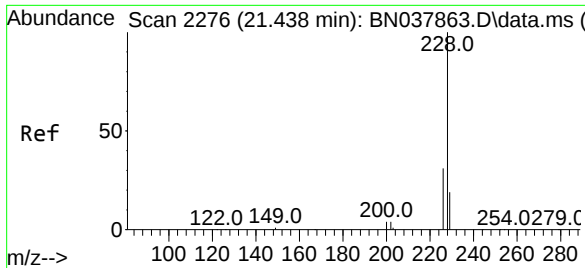
Tgt Ion:244 Resp: 11484
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 17.6 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:228 Resp: 15035
Ion Ratio Lower Upper
228 100
226 27.7 22.6 33.8
229 19.8 15.6 23.4





#33

Chrysene

Concen: 0.386 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB170167BSD

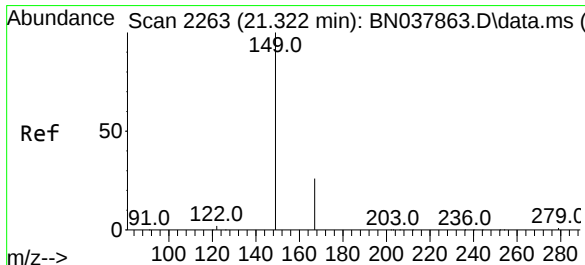
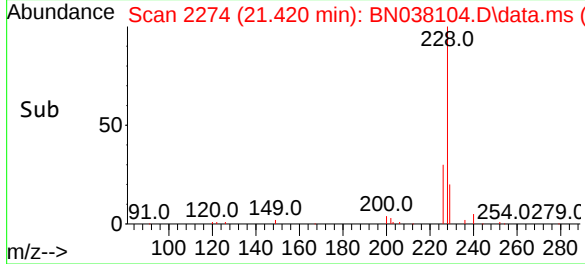
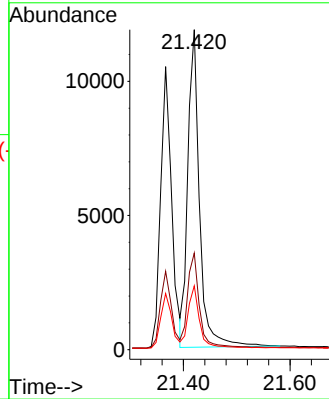
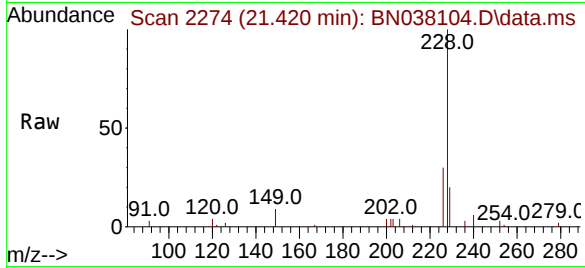
Tgt Ion:228 Resp: 18042

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.9 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.399 ng

RT: 21.304 min Scan# 2261

Delta R.T. 0.000 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

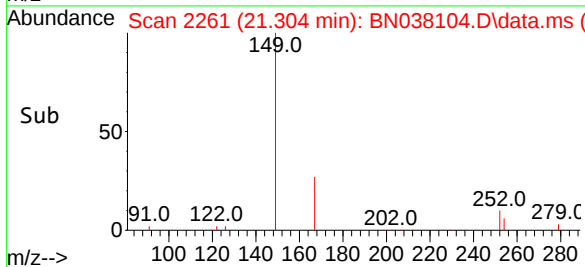
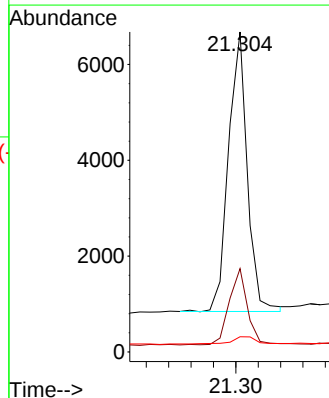
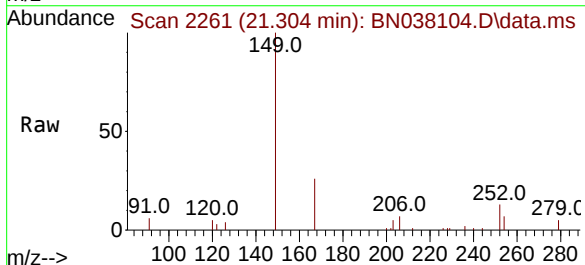
Tgt Ion:149 Resp: 6818

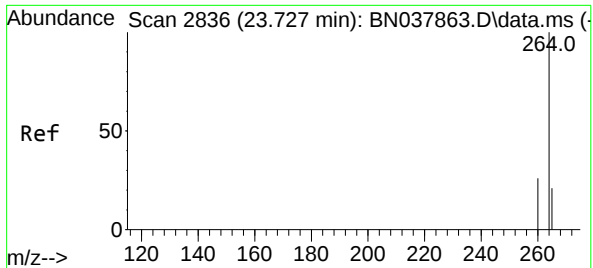
Ion Ratio Lower Upper

149 100

167 27.1 20.4 30.6

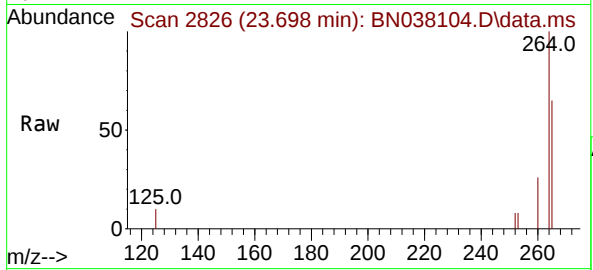
279 3.4 2.4 3.6



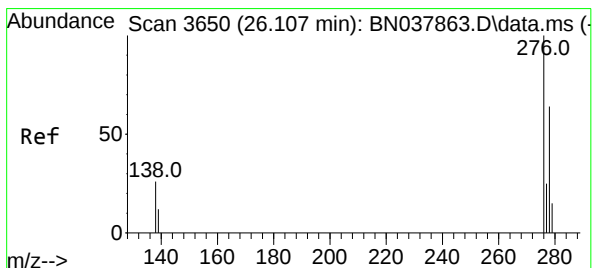
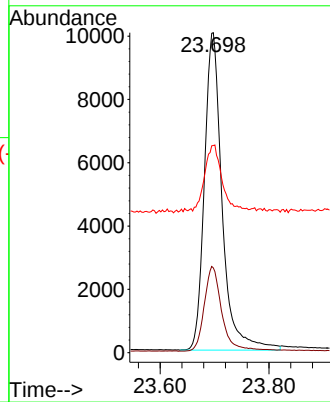
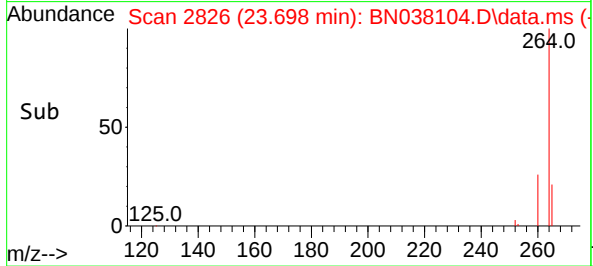


#35
Perylene-d12
Concen: 0.800 ng
RT: 23.698 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB170167BSD

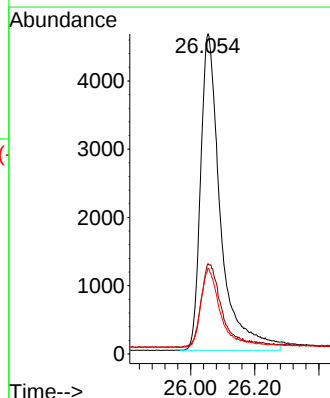
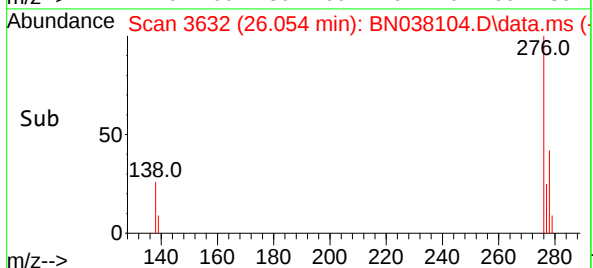
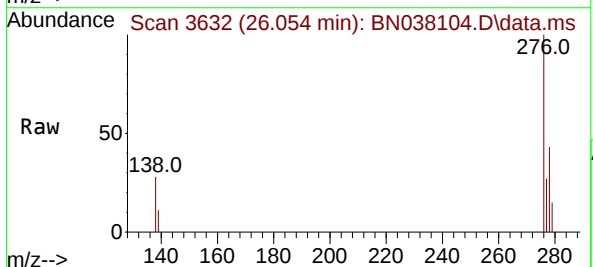


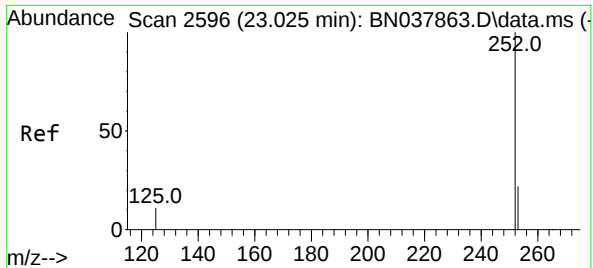
Tgt Ion:264 Resp: 22637
Ion Ratio Lower Upper
264 100
260 26.5 21.5 32.3
265 64.8 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.387 ng
RT: 26.054 min Scan# 3632
Delta R.T. -0.006 min
Lab File: BN038104.D
Acq: 20 Oct 2025 19:09

Tgt Ion:276 Resp: 20018
Ion Ratio Lower Upper
276 100
138 26.9 21.4 32.0
277 24.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.335 ng

RT: 22.996 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB170167BSD

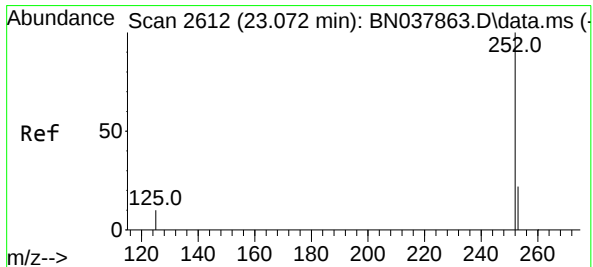
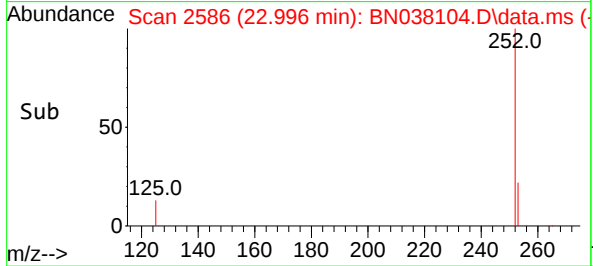
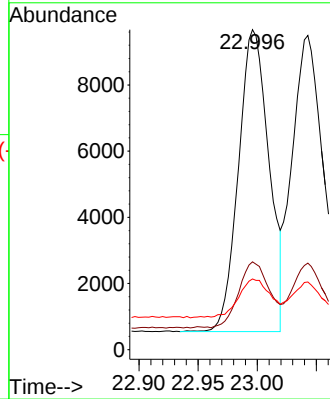
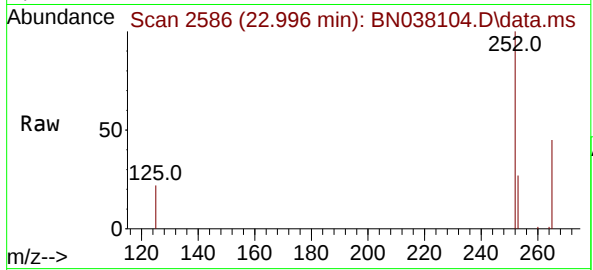
Tgt Ion:252 Resp: 16353

Ion Ratio Lower Upper

252 100

253 27.4 19.4 29.0

125 22.1 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.370 ng

RT: 23.043 min Scan# 2602

Delta R.T. -0.003 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

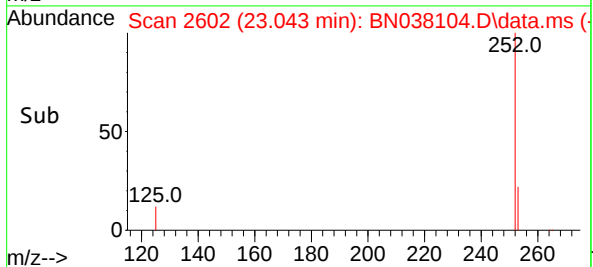
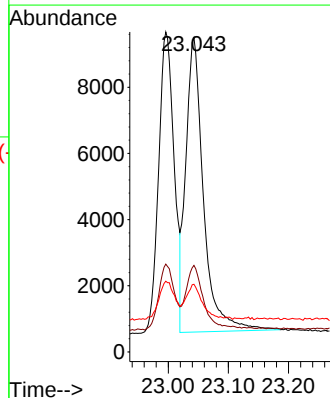
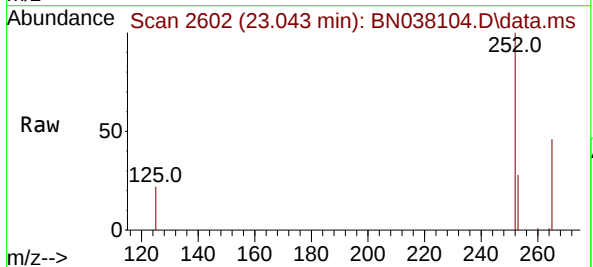
Tgt Ion:252 Resp: 18188

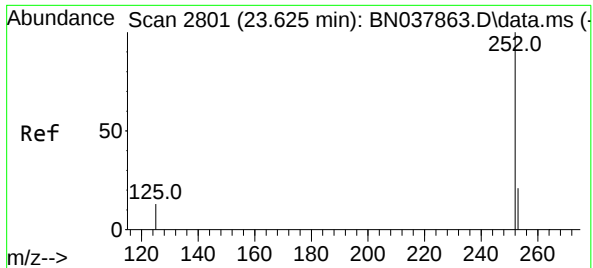
Ion Ratio Lower Upper

252 100

253 27.6 19.5 29.3

125 21.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB170167BSD

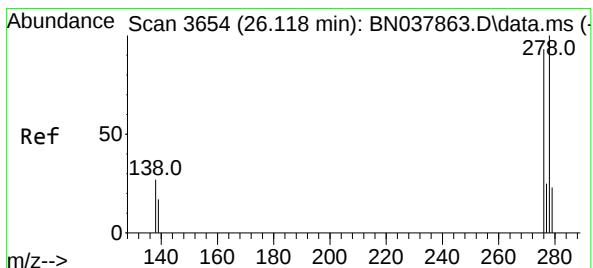
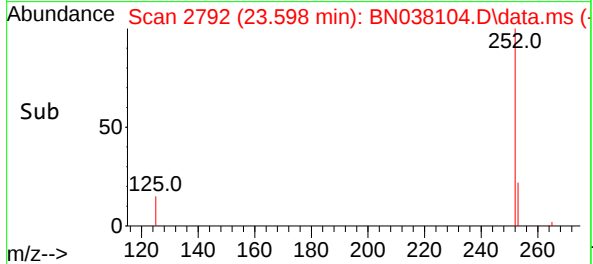
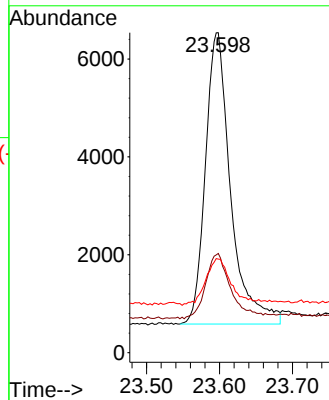
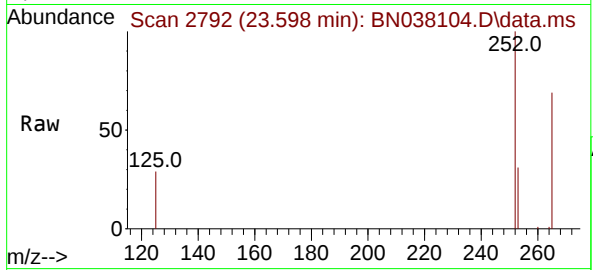
Tgt Ion:252 Resp: 14317

Ion Ratio Lower Upper

252 100

253 31.0 20.6 30.8#

125 29.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

RT: 26.078 min Scan# 3640

Delta R.T. 0.000 min

Lab File: BN038104.D

Acq: 20 Oct 2025 19:09

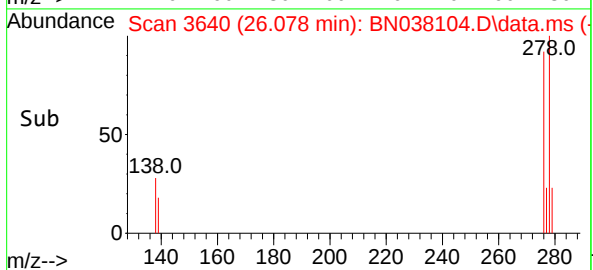
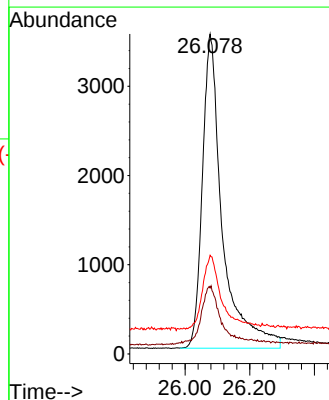
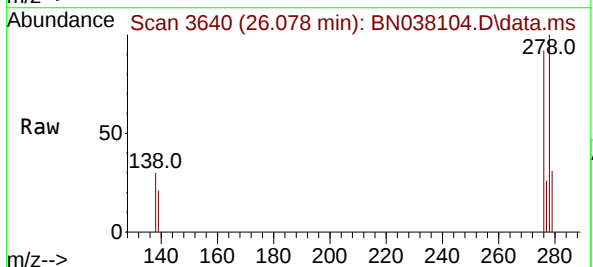
Tgt Ion:278 Resp: 15131

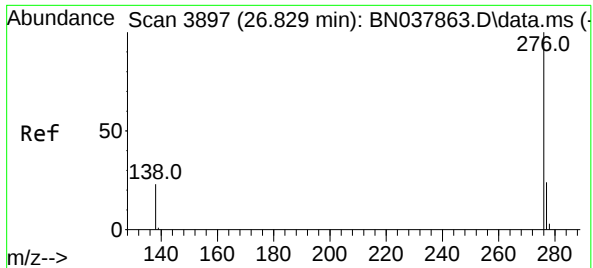
Ion Ratio Lower Upper

278 100

139 20.6 15.4 23.2

279 30.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.773 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN038104.D

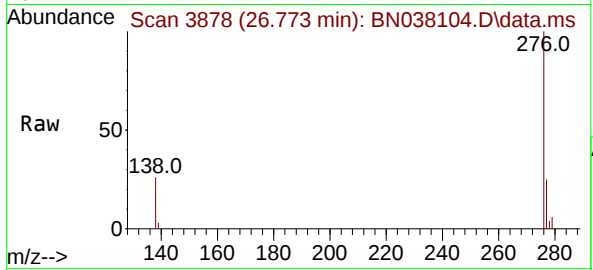
Acq: 20 Oct 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB170167BSD



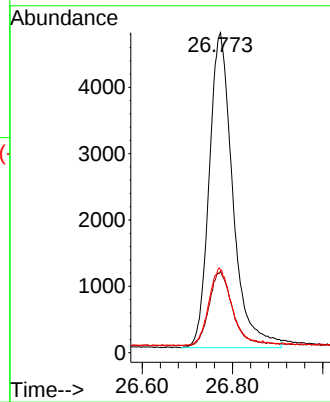
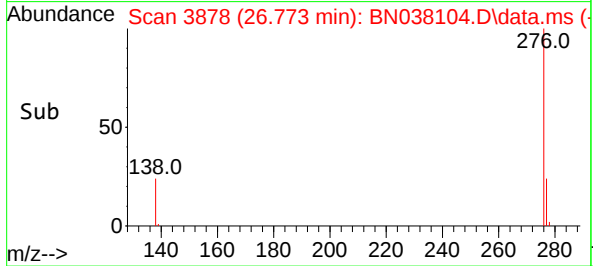
Tgt Ion:276 Resp: 17222

Ion Ratio Lower Upper

276 100

277 25.5 20.2 30.4

138 25.8 19.8 29.8





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

Manual Integration Report

Sequence:

BN092325

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



Manual Integration Report

Sequence:	BN102025	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 # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848			
CCC		SP6846			
Internal Standard/PEM		SP6830,1ul/100ul sample			
ICV/I.BLK		SP6854			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037860.D	23 Sep 2025 11:33	RC/JU	Ok
2	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13	RC/JU	Ok
3	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49	RC/JU	Ok
4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	RC/JU	Ok
5	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02	RC/JU	Ok
6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38	RC/JU	Ok
7	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15	RC/JU	Ok
8	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	RC/JU	Ok
9	SSTDICV0.4	BN037868.D	23 Sep 2025 16:28	RC/JU	Ok
10	PB169743BL	BN037869.D	23 Sep 2025 17:42	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN102025

Review By	rahul	Review On	10/21/2025 3:22:53 PM
Supervise By	Jagrut	Supervise On	10/21/2025 3:39:26 PM
SubDirectory	BN102025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038100.D	20 Oct 2025 16:41	RC/JU	Ok
2	SSTDCCC0.4	BN038101.D	20 Oct 2025 17:20	RC/JU	Ok
3	PB170167BL	BN038102.D	20 Oct 2025 17:56	RC/JU	Ok
4	PB170167BS	BN038103.D	20 Oct 2025 18:33	RC/JU	Ok
5	PB170167BSD	BN038104.D	20 Oct 2025 19:09	RC/JU	Ok
6	Q3371-02	BN038105.D	20 Oct 2025 19:45	RC/JU	Ok
7	Q3371-03	BN038106.D	20 Oct 2025 20:21	RC/JU	Ok
8	Q3371-05	BN038107.D	20 Oct 2025 20:58	RC/JU	Ok
9	Q3371-06	BN038108.D	20 Oct 2025 21:34	RC/JU	Ok
10	SSTDCCC0.4	BN038109.D	20 Oct 2025 22:10	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037860.D	23 Sep 2025 11:33		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	Compound#14,24 removed from 5.0 ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN092325	BN037868.D	23 Sep 2025 16:28		RC/JU	Ok
10	PB169743BL	PB169743BL	BN037869.D	23 Sep 2025 17:42	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 # BN102025

Review By	rahul	Review On	10/21/2025 3:22:53 PM
Supervise By	Jagrut	Supervise On	10/21/2025 3:39:26 PM
SubDirectory	BN102025	HP Acquire Method	BNA_N, 8270_HP Processing Method BN092325

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038100.D	20 Oct 2025 16:41		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038101.D	20 Oct 2025 17:20		RC/JU	Ok
3	PB170167BL	PB170167BL	BN038102.D	20 Oct 2025 17:56		RC/JU	Ok
4	PB170167BS	PB170167BS	BN038103.D	20 Oct 2025 18:33		RC/JU	Ok
5	PB170167BSD	PB170167BSD	BN038104.D	20 Oct 2025 19:09	Double internal standard added	RC/JU	Ok
6	Q3371-02	BP-VPB-184-EB-20251	BN038105.D	20 Oct 2025 19:45		RC/JU	Ok
7	Q3371-03	VPB184-HYD-2025101	BN038106.D	20 Oct 2025 20:21	Surrogate fail.	RC/JU	Ok
8	Q3371-05	BP-VPB-184-GW-920-9	BN038107.D	20 Oct 2025 20:58		RC/JU	Ok
9	Q3371-06	VPB184-HYD-2025101	BN038108.D	20 Oct 2025 21:34	Surrogate fail.	RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN038109.D	20 Oct 2025 22:10		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RS

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3953 **Hood ID:** 4,6,7

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 10/20/2025

Extraction Start Time : 09:45

Extraction End Date : 10/20/2025

Extraction End Time : 14:45

Concentration By: EH

Supervisor By : ritesh

Standarded 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	EP2652
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. Q3371-03 sample out of holding times extract.

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
10/20/25	RS (Ext-Lab)	RC/SVOC
14:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 10/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170167BL	SBLK167	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			SEP-1
PB170167BS	SLCS167	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			2
PB170167BS D	SLCSD167	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1			3
Q3371-02	BP-VPB-184-EB-2025101 6	SVOC-SIMGrou p1	900	6	RUPESH	Evelyn	1	C		4
Q3371-03	VPB184-HYD-20251010	SVOC-SIMGrou p1	970	6	RUPESH	Evelyn	1	C		5
Q3371-05	BP-VPB-184-GW-920-922	SVOC-SIMGrou p1	790	6	RUPESH	Evelyn	1	C		6
Q3371-06	VPB184-HYD-20251016	SVOC-SIMGrou p1	1000	6	RUPESH	Evelyn	1	C		7

RS
10/20

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3371 WorkList ID : 192561 Department : Extraction Date : 10-20-2025 09:12:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3371-02	BP-VPB-184-EB-20251016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	10/16/2025	8270-Modified
Q3371-03	VPB184-HYD-20251010	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	10/10/2025	8270-Modified
Q3371-05	BP-VPB-184-GW-920-922	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	10/15/2025	8270-Modified
Q3371-06	VPB184-HYD-20251016	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D31	10/16/2025	8270-Modified

Date/Time 10/20/25 9:40
 Raw Sample Received by: RS (Ext-946)
 Raw Sample Relinquished by: [Signature]

Date/Time 10/20/25 10:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RS (Ext-946)

Prep Standard - Chemical Standard Summary

Order ID : Q3371
Test : SVOC-SIMGroup1
Prepbatch ID : PB170167,
Sequence ID/Qc Batch ID: BN102025,

Standard ID :
EP2609,EP2610,EP2652,SP6830,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6873,SP6875,SP6876,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3942,E3943,E3972,E3973,E3980,M6157,S10105,S11073,S11496,S11652,S11828,S12115,S12197,S12201,S12220,S12273,S12499,S12552,S12560,S12577,S12670,S12905,S12986,S13058,S13097,S13120,S13245,W3112,

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	EP2652	10/10/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/10/2025

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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<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	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

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>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<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	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

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>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<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	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

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>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<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	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 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>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = 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>
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 DFTPP 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
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								

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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	01/28/2026	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	10/10/2025 / RUPESH	10/10/2025 / RUPESH	E3980

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 #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

CHEMICAL RECEIPT LOG BOOK

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

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 #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

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

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]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[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	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	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

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

CHEMICAL RECEIPT LOG BOOK

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]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

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	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]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

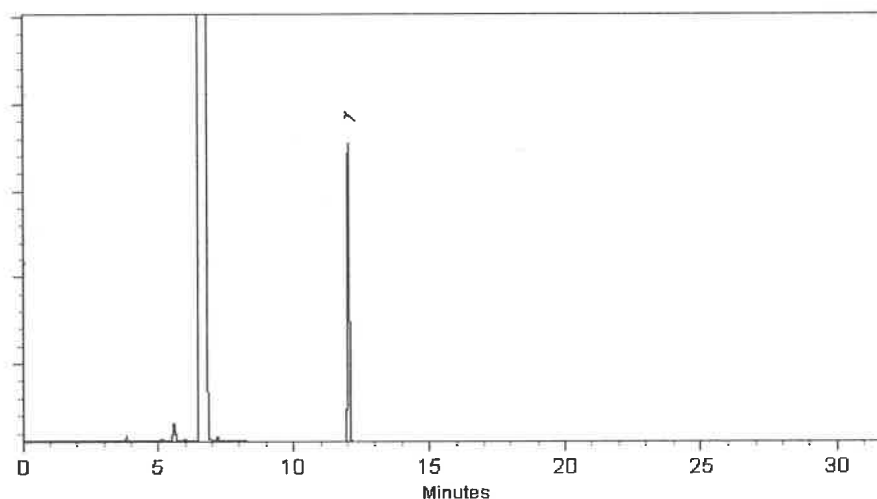
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.

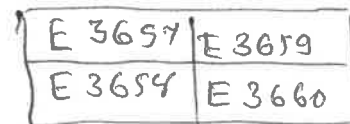
This document has been electronically produced and is valid without a signature.

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

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_2Cl_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 ($\mu\text{eq/g}$)	≤ 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

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



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Santa Rosa, CA 95403

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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: _____

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.



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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.



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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:

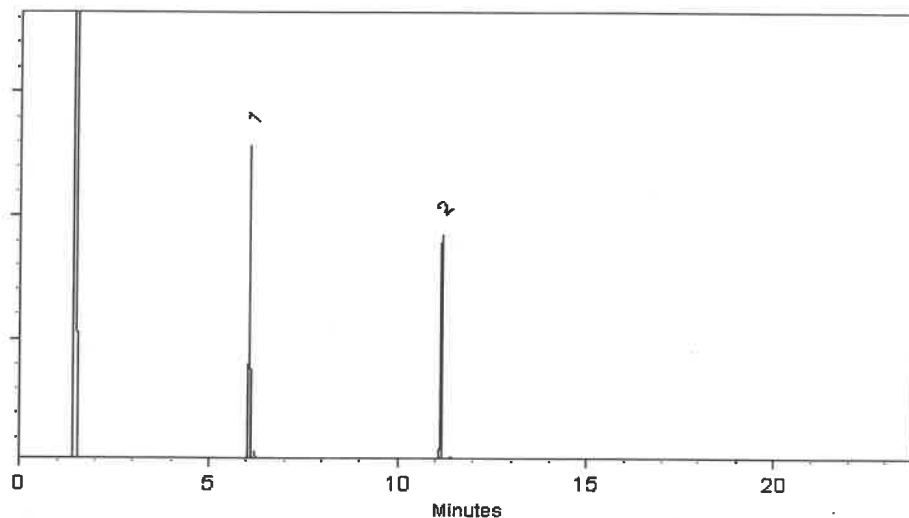
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

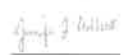


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

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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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:

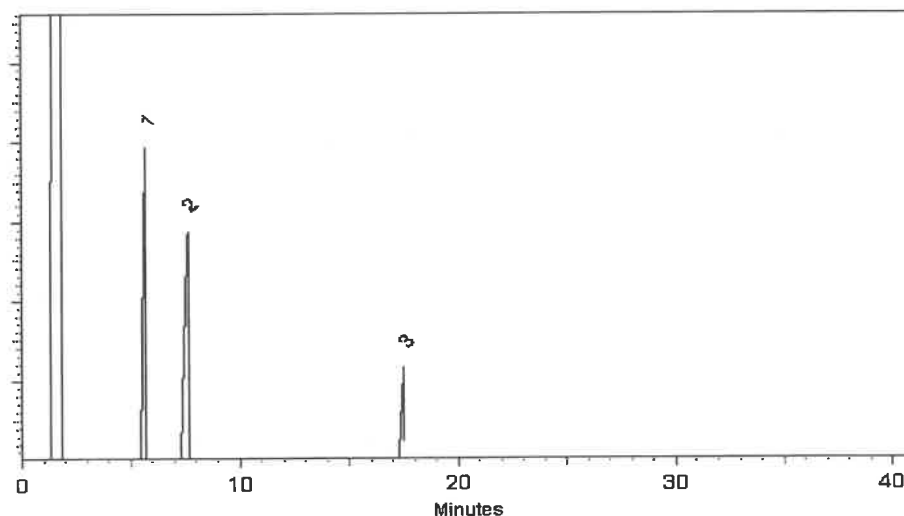
FID

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 A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

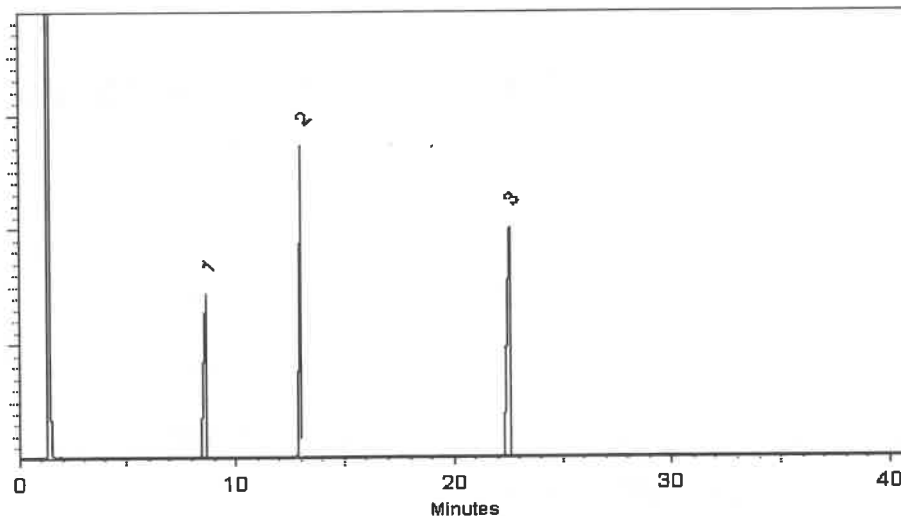
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

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Certificate #FM 80397



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Rev 0

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.

Certificate of Analysis

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
listed are determined gravimetrically.



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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.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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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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.)

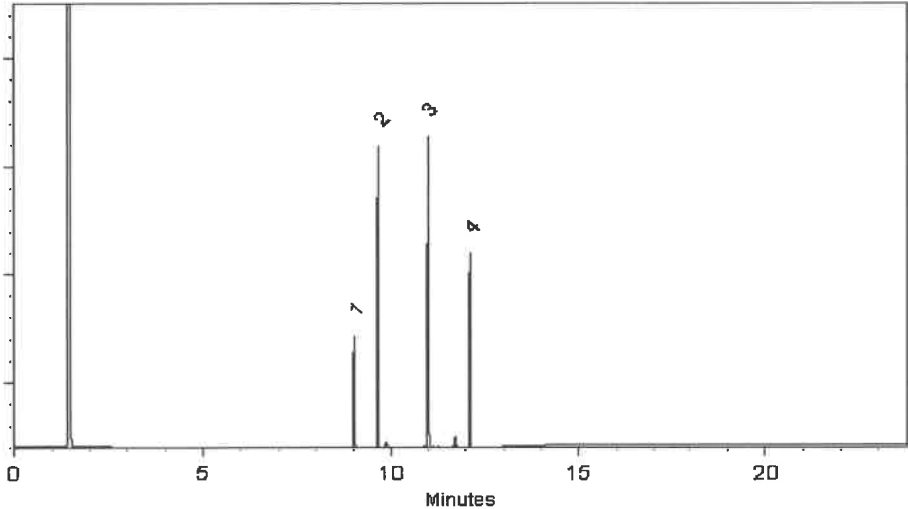
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

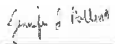
Inj. Vol
1µl



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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } 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

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.



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.:** 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:

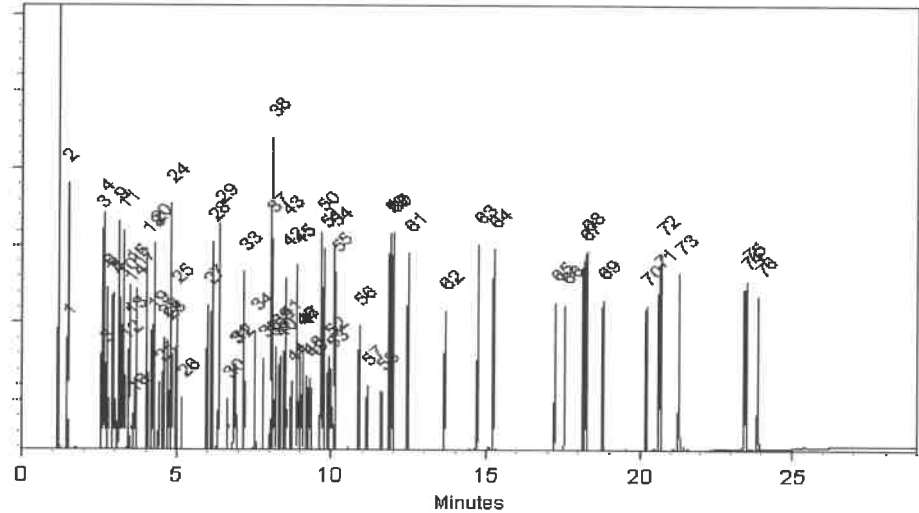
FID

Split Vent:

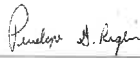
100 ml/min.

Inj. Vol

1µl

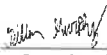


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

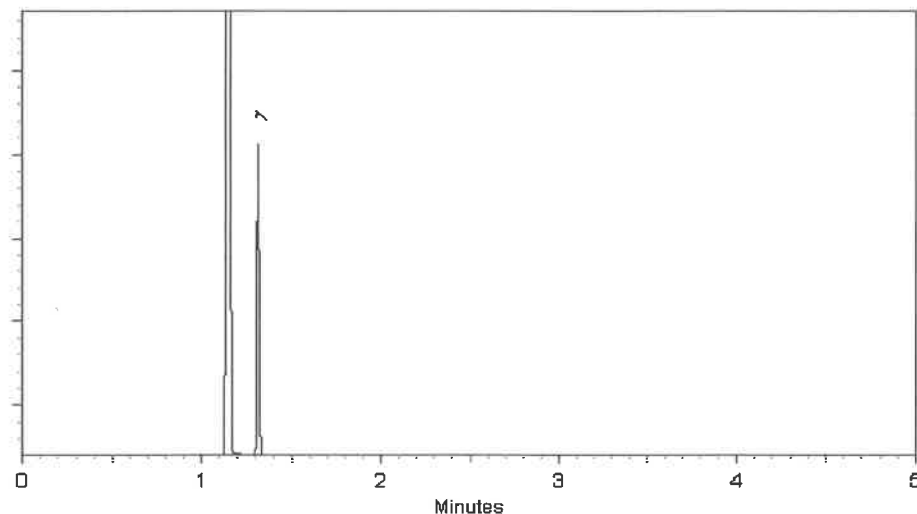
FID

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 Rignin - 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

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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

S13239 } RC/
↓
S13268 } 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



SHIPPING DOCUMENTS

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CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

Q3371/72

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-184
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD: 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format

ANALYSIS

VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	522_PREC							
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		A									
1.	BP-VPB-184-TB-20251010	QA		X	10/10/25	9:00	2	2									Trip Blank
2.	BP-VPB-184-EB-20251016	QA		X	10/16/25	9:00	3	2	1								Equipment Blank
3.	VPB184-HYD-20251010	AQ		X	10/10/25	14:00	5	2	1	2							
4.	BP-VPB-184-GW-915-917	AQ		X	10/15/25	9:45	3	3									
5.	BP-VPB-184-GW-920-922	AQ		X	10/15/25	11:56	4	3	1								
6.	VPB184-HYD-20251016	AQ		X	10/16/25	14:30	5	2	1	2							
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 1.9°C MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?: Comments: 2 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)
1. <i>[Signature]</i>	10/16/25 1:40	1. <i>[Signature]</i>	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2. <i>[Signature]</i>		2. <i>[Signature]</i>	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. <i>[Signature]</i>	10.16.25 1:40	3. <i>[Signature]</i>	

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3371	TETR06	Order Date : 10/16/2025 4:13:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 10/16/2025 6:40:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3371-01	BP-VPB-184-TB-20251010	Water	10/10/2025	09:00					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	
Q3371-02	BP-VPB-184-EB-20251016	Water	10/16/2025	09:00					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	
Q3371-03	VPB184-HYD-20251010	Water	10/10/2025	14:00					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	
Q3371-04	BP-VPB-184-GW-915-917	Water	10/15/2025	09:45					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	
Q3371-05	BP-VPB-184-GW-920-922	Water	10/15/2025	11:56					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	
Q3371-06	VPB184-HYD-20251016	Water	10/16/2025	14:30					
					VOC-TCLVOA-10		8260-Low	2 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3371 TETR06

Order Date : 10/16/2025 4:13:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 10/16/2025 6:40:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time :

cl
10/17/25 13:35

Received By :

Date / Time :

Sam
10/17/25 13:35 Pg 4

Storage Area : VOA Refridgerator Room