

**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 : Q3165
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3165

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3165-01
Q3165-02
Q3165-03
Q3165-04
Q3165-05
Q3165-06
Q3165-07
Q3165-08
Q3165-09
Q3165-10

Client Sample Number

BP-VPB-184-TB-20250919
VPB184-HYD-20250919
BP-VPB-184-GW-240-242
BP-VPB-184-GW-260-262
BP-VPB-184-GW-280-282
BP-VPB-184-DUP-20250922
BP-VPB-184-GW-300-302
BP-VPB-184-GW-320-322
BP-VPB-184-GW-320-322MS
BP-VPB-184-GW-320-322MSD

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:29 am, Oct 06, 2025

Date: 10/4/2025

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 # Q3165

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 09/22/2025.

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, VPB184-HYD-20250919 [2-Methylnaphthalene-d10 - 1%, Fluoranthene-d10 - 16%]. Surrogates are failed due to matrix interference as seen in the chromatogram. Therefor no corrective action was taken.

The Internal Standards Areas were met for all analysis except for, BP-VPB-184-GW-260-262, BP-VPB-184-GW-300-302. Failed internal standard are not associated with reporting list, therefor no further corrective action was taken. 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.

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

The Sample VPB184-HYD-20250919 has the concentration of target compound below Method detection limit; therefore it is not reported as Hit in Form1.

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

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:30 am, Oct 06, 2025

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: Q3165

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries were met for all analysis except for VPB184-HYD-20250919 [2-Methylnaphthalene-d10 - 1%, Fluoranthene-d10 - 16%]. Surrogates are failed due to matrix interference as seen in the chromatogram. Therefor no corrective action was taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.			

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas were met for all analysis except for BP-VPB-184-GW-260-262, BP-VPB-184-GW-300-302. Failed internal standard are not associated with reporting list, therefor no further corrective action was taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”
 The Sample VPB184-HYD-20250919 has the concentration of target compound below Method detection limit; therefore it is not reported as Hit in Form1.
 The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:20 am, Oct 06, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3165

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: 10/04/2025

LAB CHRONICLE

OrderID:	Q3165	OrderDate:	9/22/2025 4:07:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J43,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3165-02	VPB184-HYD-20250919	Water			09/19/25			09/22/25
			SVOC-SIMGroup1	8270-Modified		09/25/25	09/29/25	
Q3165-04	BP-VPB-184-GW-260-262	Water			09/19/25			09/22/25
			SVOC-SIMGroup1	8270-Modified		09/25/25	09/29/25	
Q3165-07	BP-VPB-184-GW-300-302	Water			09/22/25			09/22/25
			SVOC-SIMGroup1	8270-Modified		09/25/25	09/29/25	

Hit Summary Sheet SW-846

SDG No.: Q3165

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-184-GW-260-262								
Q3165-04	BP-VPB-184-GW-260-262 WATER	1,4-Dioxane	0.430		0.08	0.24	0.24	ug/L
		Total Svoc :			0.43			
		Total Concentration:			0.43			
Client ID : BP-VPB-184-GW-300-302								
Q3165-07	BP-VPB-184-GW-300-302 WATER	1,4-Dioxane	0.210	J	0.09	0.26	0.26	ug/L
		Total Svoc :			0.21			
		Total Concentration:			0.21			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3165

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169839BL	PB169839BL	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.43	106		58	132
PB169839BS	PB169839BS	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB169839BSD	PB169839BSD	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q3165-02	VPB184-HYD-20250919	2-Methylnaphthalene-d10	0.4	0.0060	1	*	30	150
		Fluoranthene-d10	0.4	0.065	16	*	30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q3165-04	BP-VPB-184-GW-260-262	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3165-07	BP-VPB-184-GW-300-302	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.42	105		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3165

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037933.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169839BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3165

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037934.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169839BSD	1,4-Dioxane	0.4	0.31	ug/L	78	3			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169839BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3165

Lab File ID: BN037932.D

Lab Sample ID: PB169839BL

Instrument ID: BNA_N

Date Extracted: 09/25/2025

Matrix: (soil/water) Water

Date Analyzed: 09/29/2025

Level: (low/med) LOW

Time Analyzed: 12:06

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169839BS	PB169839BS	BN037933.D	09/29/2025
PB169839BSD	PB169839BSD	BN037934.D	09/29/2025
VPB184-HYD-20250919	Q3165-02	BN037935.D	09/29/2025
BP-VPB-184-GW-260-262	Q3165-04	BN037936.D	09/29/2025
BP-VPB-184-GW-300-302	Q3165-07	BN037937.D	09/29/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

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

Contract: TETR06
SDG NO.: Q3165
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



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037930.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3165
DFTPP Injection Date: 09/29/2025
DFTPP Injection Time: 10:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (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	3.4
441	Present, but less than mass 443	81.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (20) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037931.D	09/29/2025	11:30
PB169839BL	PB169839BL	BN037932.D	09/29/2025	12:06
PB169839BS	PB169839BS	BN037933.D	09/29/2025	12:43
PB169839BSD	PB169839BSD	BN037934.D	09/29/2025	13:19
VPB184-HYD-20250919	Q3165-02	BN037935.D	09/29/2025	13:55
BP-VPB-184-GW-260-262	Q3165-04	BN037936.D	09/29/2025	14:32
BP-VPB-184-GW-300-302	Q3165-07	BN037937.D	09/29/2025	15:08
SSTDCCC0.4EC	SSTDCCC0.4	BN037941.D	09/29/2025	18:46

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3165

Client ID : SSTDCCC0.4

Date Analyzed: 09/29/2025

Lab File ID: BN037931.D

Time Analyzed: 11:30

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	9694	7.818	28657	10.62	15093	14.47
UPPER LIMIT	19388	8.318	57314	11.116	30186	14.973
LOWER LIMIT	4847	7.318	14328.5	10.116	7546.5	13.973
EPA SAMPLE NO.						
01 PB169839BL	8651	7.82	24367	10.62	11932	14.47
02 PB169839BS	7496	7.82	21013	10.62	10987	14.47
03 PB169839BSD	7869	7.82	22045	10.62	11433	14.47
04 VPB184-HYD-20250919	8469	7.82	24220	10.62	12389	14.47
05 BP-VPB-184-GW-260-262	9861	7.82	30069	10.62	16737	14.47
06 BP-VPB-184-GW-300-302	8452	7.82	25701	10.62	14574	14.47

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.: Q3165

Client ID: SSTDCCC0.4

Date Analyzed: 09/29/2025

Lab File ID: BN037931.D

Time Analyzed: 11:30

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	28466	17.211	20163	21.402	15946	23.724
UPPER LIMIT	56932	17.711	40326	21.902	31892	24.224
LOWER LIMIT	14233	16.711	10081.5	20.902	7973	23.224
EPA SAMPLE NO.						
01 PB169839BL	23393	17.22	17581	21.40	14270	23.72
02 PB169839BS	21519	17.21	19399	21.40	17959	23.73
03 PB169839BSD	22296	17.22	19503	21.40	17544	23.73
04 VPB184-HYD-20250919	25703	17.22	20793	21.40	17157	23.72
05 BP-VPB-184-GW-260-262	35434	17.21	36101	21.39	36307 *	23.72
06 BP-VPB-184-GW-300-302	31224	17.21	32073	21.40	35207 *	23.72

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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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/22/25
Client Sample ID:	VPB184-HYD-20250919	SDG No.:	Q3165
Lab Sample ID:	Q3165-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037935.D	1	09/25/25 11:00	09/29/25 13:55	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.0060	*	30 - 150		1%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.065	*	30 - 150		16%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8470	7.818				
1146-65-2	Naphthalene-d8	24200	10.616				
15067-26-2	Acenaphthene-d10	12400	14.473				
1517-22-2	Phenanthrene-d10	25700	17.223				
1719-03-5	Chrysene-d12	20800	21.402				
1520-96-3	Perylene-d12	17200	23.724				

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\BN092925\
Data File : BN037935.D
Acq On : 29 Sep 2025 13:55
Operator : RC/JU
Sample : Q3165-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

Quant Time: Sep 29 14:23:08 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

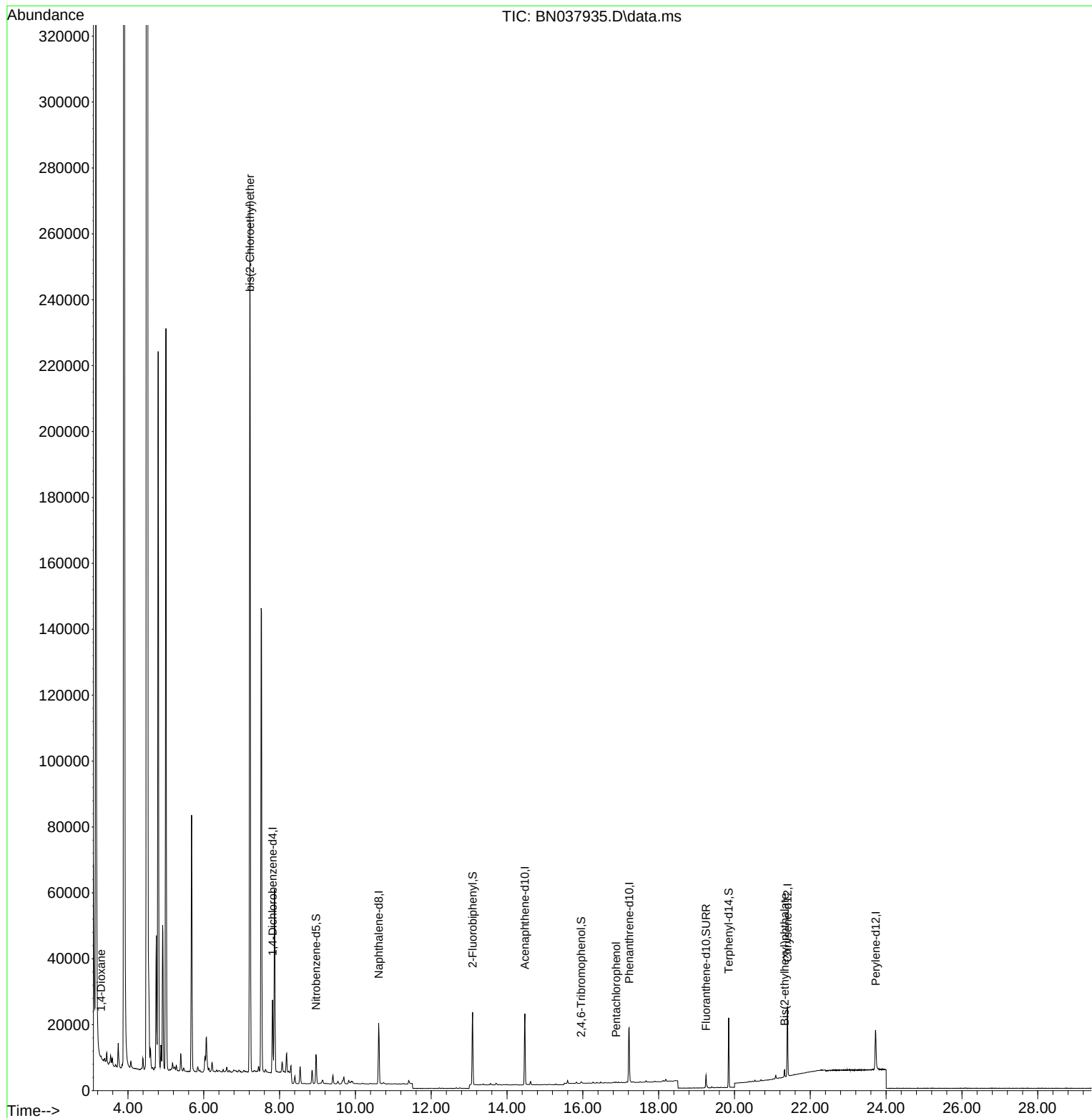
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	8469	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	24220	0.400	ng	-0.01
13) Acenaphthene-d10	14.473	164	12389	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	25703	0.400	ng	0.00
29) Chrysene-d12	21.402	240	20793	0.400	ng	# 0.00
35) Perylene-d12	23.724	264	17157	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	91	0.005	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.961	82	6935	0.375	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	217	0.006	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	263	0.056	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	18409	0.363	ng	0.00
27) Fluoranthene-d10	19.248	212	4172	0.065	ng	0.00
31) Terphenyl-d14	19.847	244	18900	0.456	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	282	0.033	ng	# 61
6) bis(2-Chloroethyl)ether	7.219	93	171090	7.258	ng	# 44
24) Pentachlorophenol	16.876	266	186	0.027	ng	86
34) Bis(2-ethylhexyl)phtha...	21.322	149	2420	0.084	ng	# 98

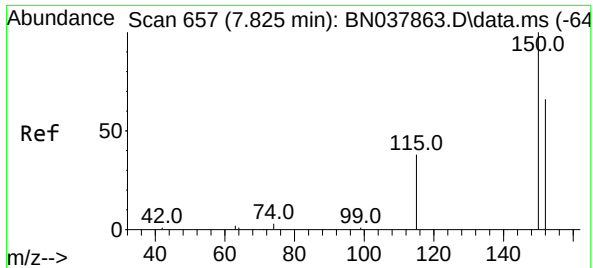
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037935.D
Acq On : 29 Sep 2025 13:55
Operator : RC/JU
Sample : Q3165-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

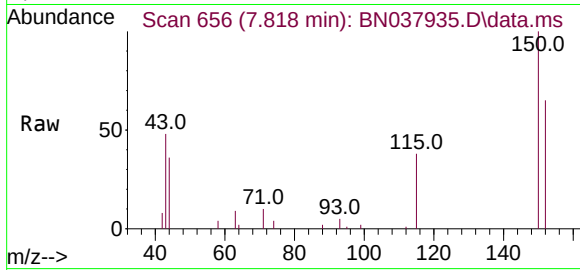
Quant Time: Sep 29 14:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



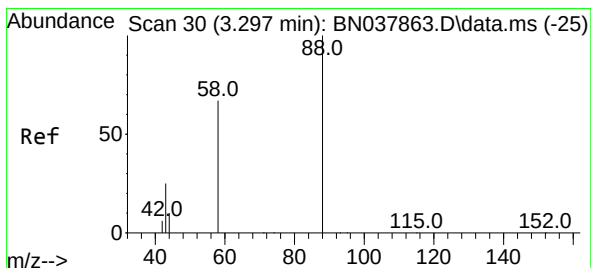
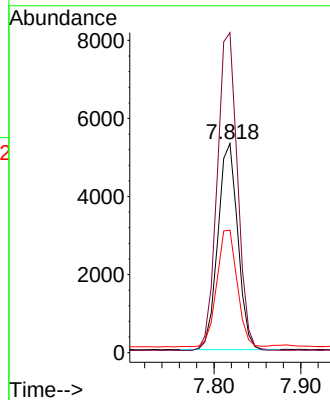
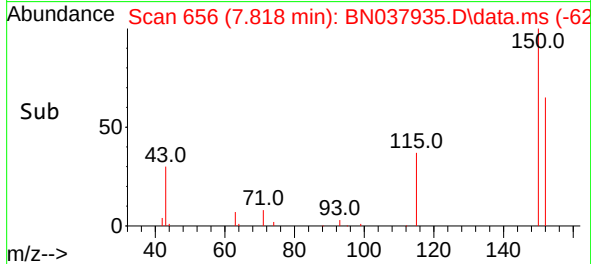


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

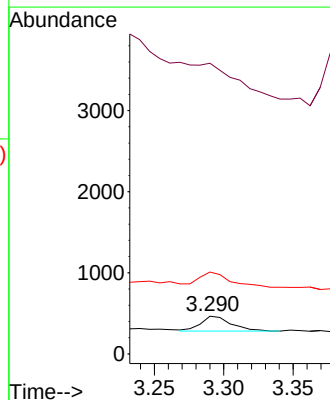
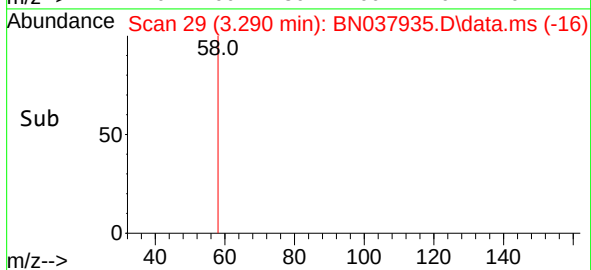
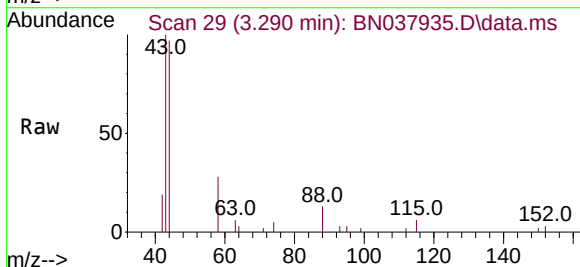


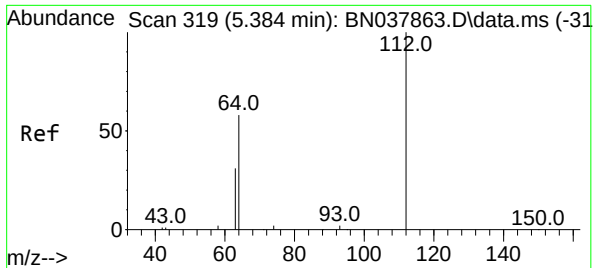
Tgt Ion: 152 Resp: 8469
Ion Ratio Lower Upper
152 100
150 153.1 121.0 181.4
115 58.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.033 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion: 88 Resp: 282
Ion Ratio Lower Upper
88 100
43 0.0 26.6 39.8#
58 98.9 58.9 88.3#

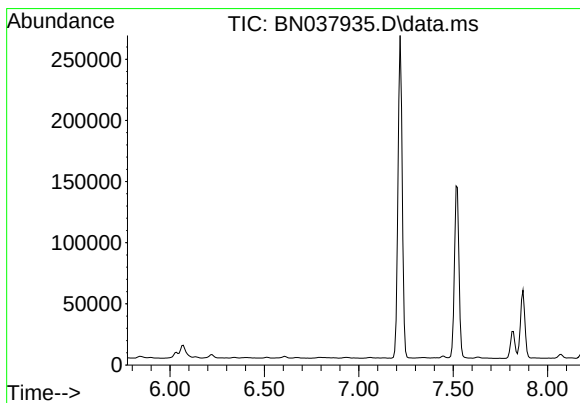
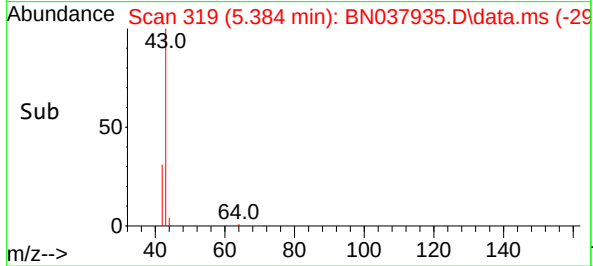
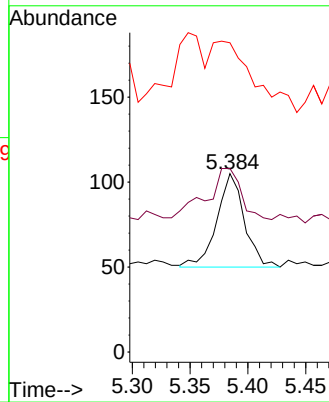
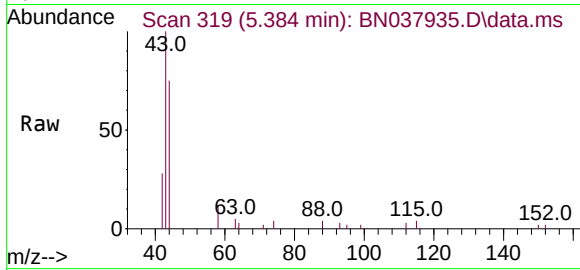




#4
2-Fluorophenol
Concen: 0.005 ng
RT: 5.384 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

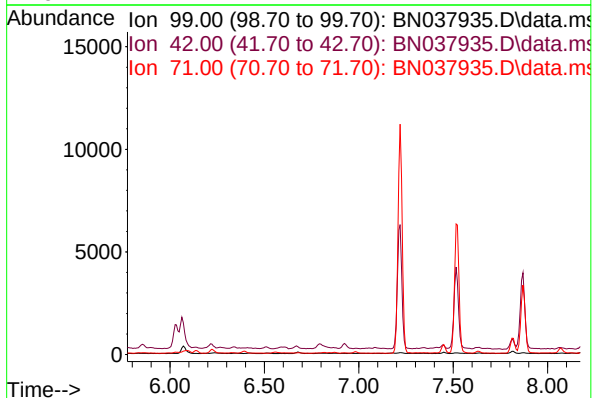
Tgt Ion:112 Resp: 91
Ion Ratio Lower Upper
112 100
64 68.1 44.6 66.8#
63 116.5 24.9 37.3#

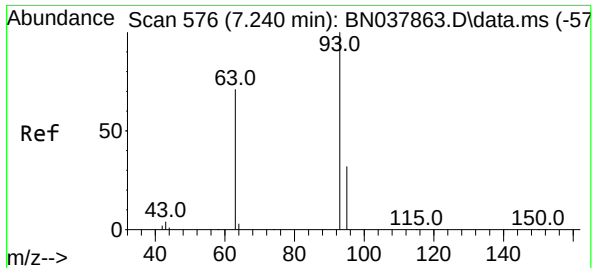


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.97 min

Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

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

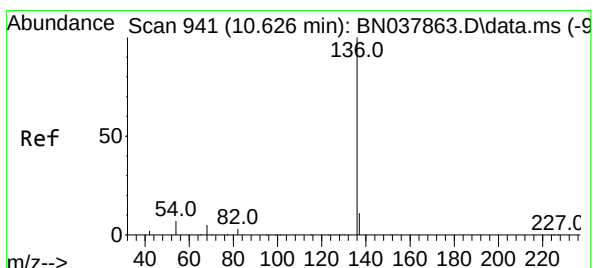
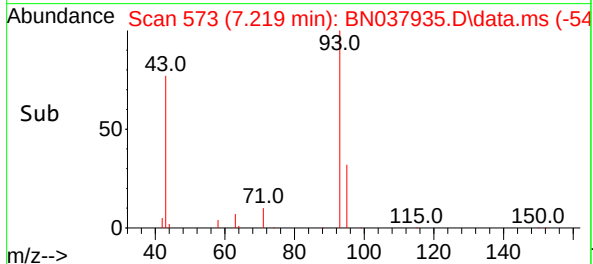
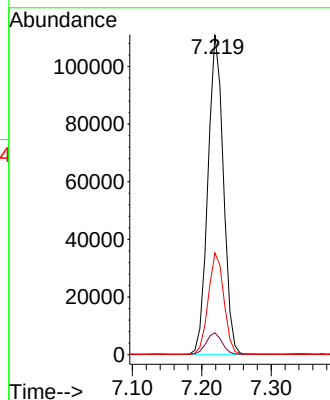
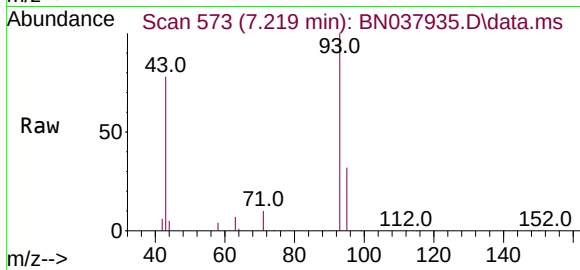




#6
bis(2-Chloroethyl)ether
Concen: 7.258 ng
RT: 7.219 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

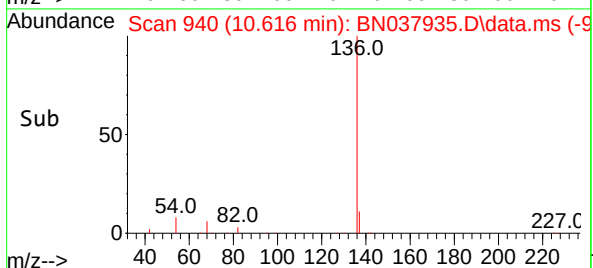
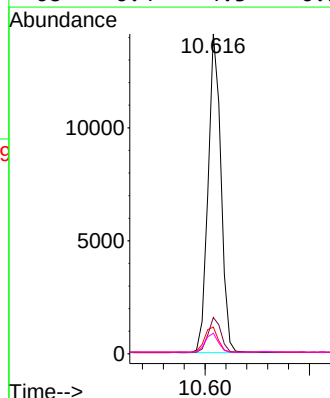
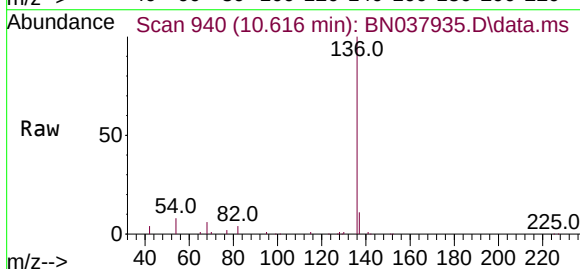
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

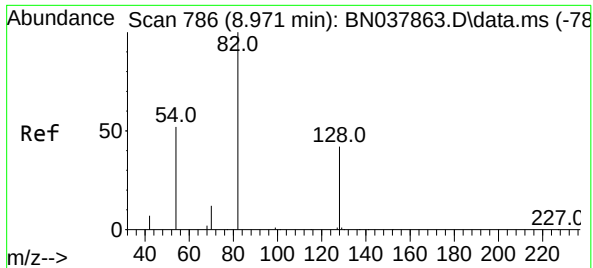
Tgt Ion: 93 Resp: 171090
Ion Ratio Lower Upper
93 100
63 6.8 60.1 90.1#
95 32.0 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 940
Delta R.T. -0.011 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion: 136 Resp: 24220
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.4
54 8.4 5.8 8.8
68 6.4 4.3 6.5

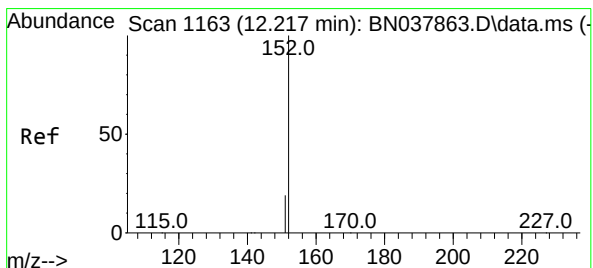
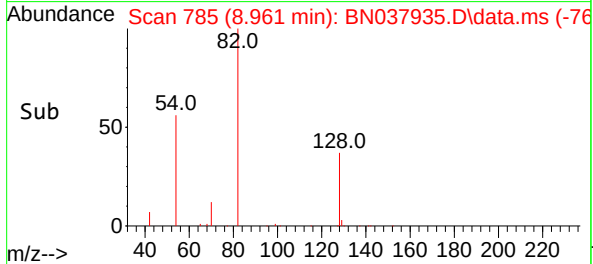
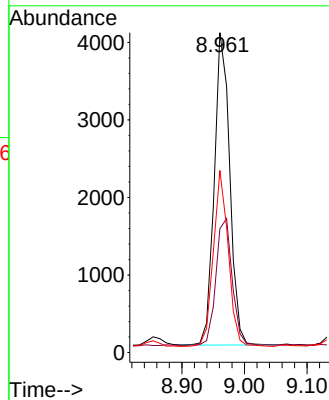
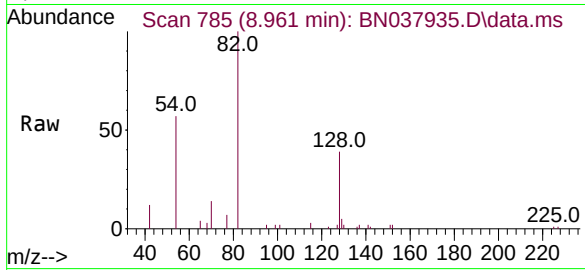




#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.961 min Scan# 786
Delta R.T. -0.011 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

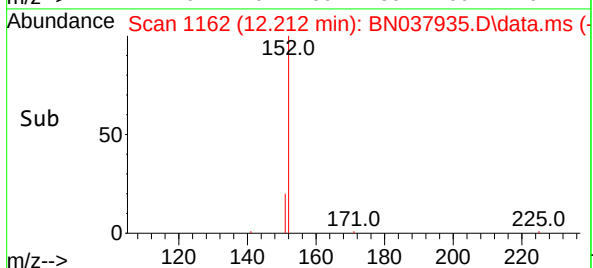
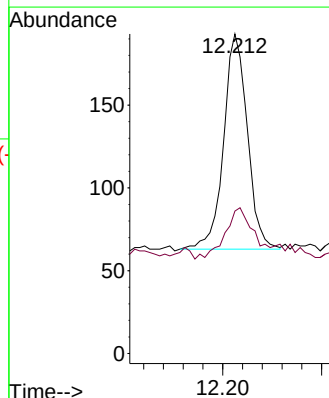
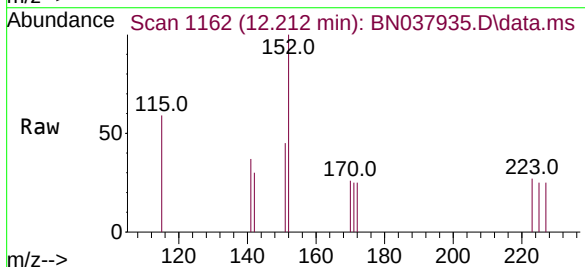
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

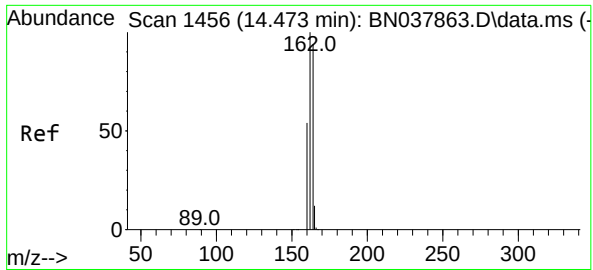
Tgt Ion:	82	Resp:	6935
Ion Ratio	Lower	Upper	
82	100		
128	38.7	34.8	52.2
54	56.9	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.006 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion:	152	Resp:	217
Ion Ratio	Lower	Upper	
152	100		
151	35.9	17.4	26.2

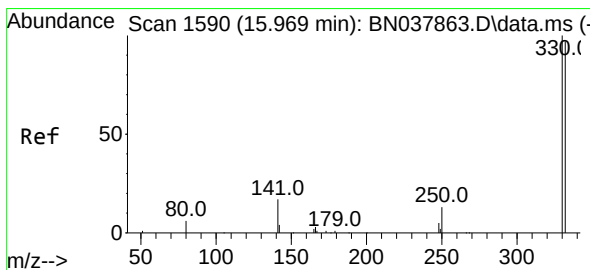
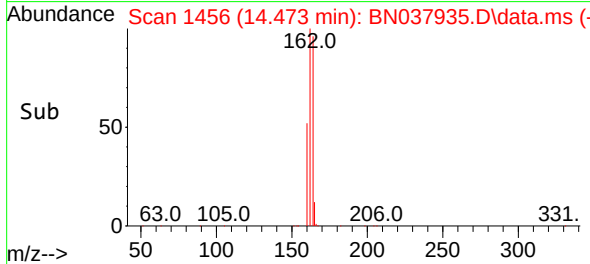
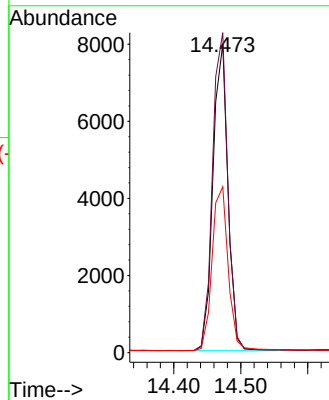
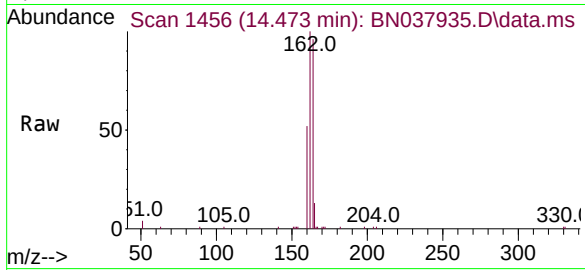




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

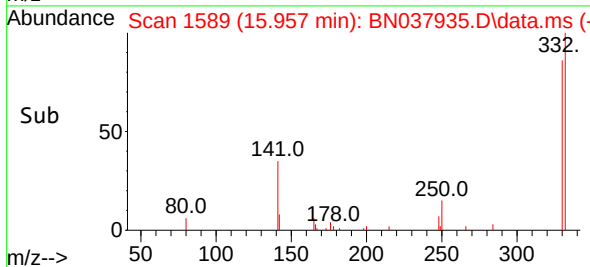
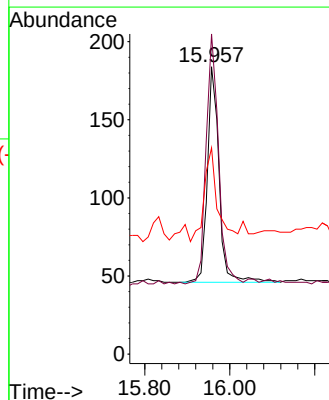
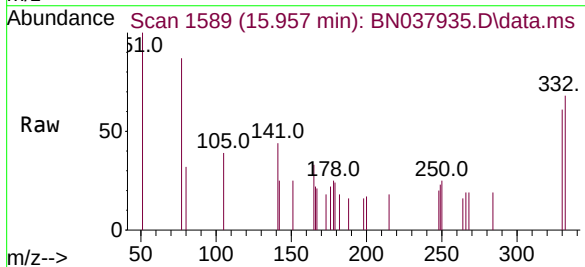
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

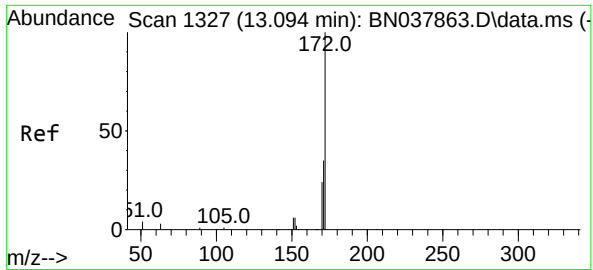
Tgt Ion:	164	Resp:	12389
Ion	Ratio	Lower	Upper
164	100		
162	103.8	84.8	127.2
160	53.8	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.056 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion:	330	Resp:	263
Ion	Ratio	Lower	Upper
330	100		
332	123.6	77.2	115.8#
141	49.8	37.2	55.8

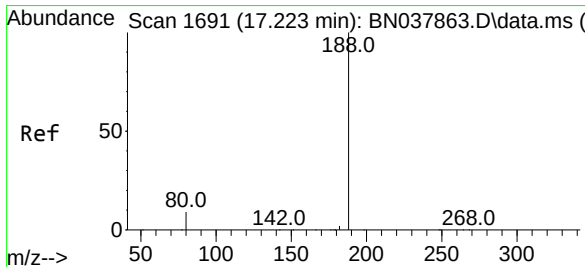
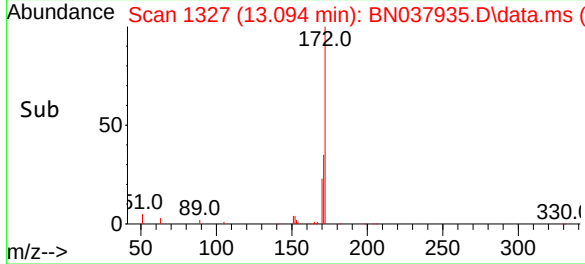
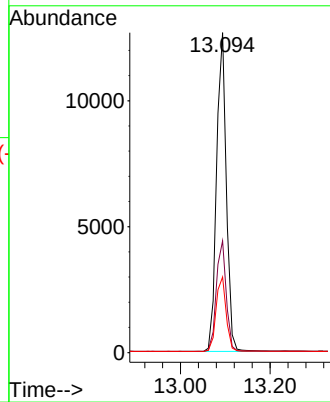
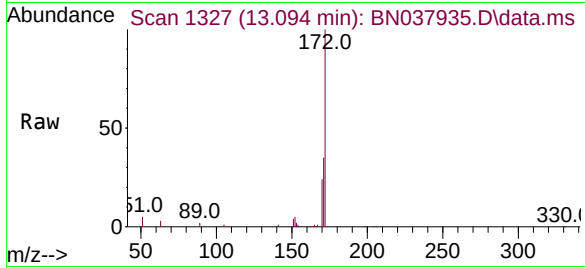




#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

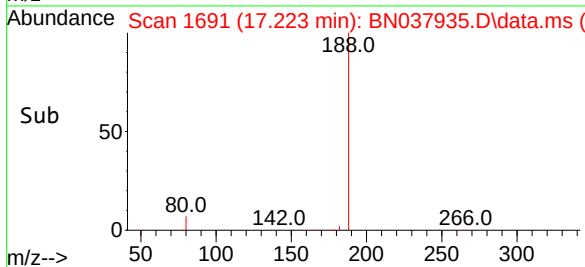
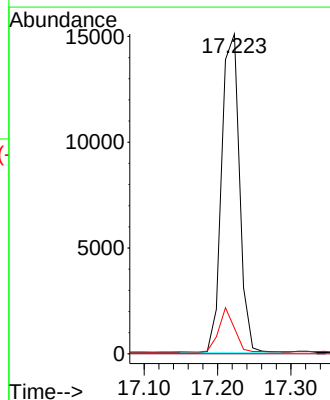
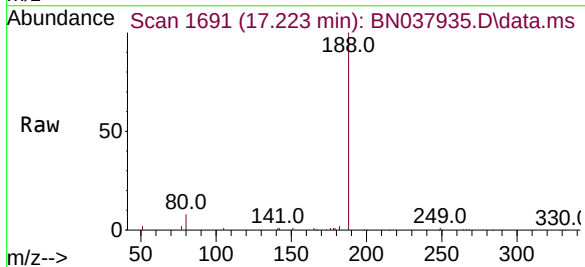
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

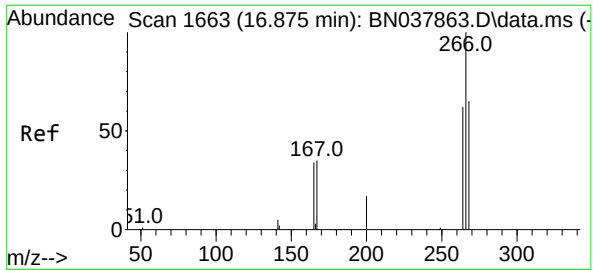
Tgt Ion:	172	Resp:	18409
Ion Ratio	Lower	Upper	
172	100		
171	34.9	28.6	43.0
170	23.6	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion:	188	Resp:	25703
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.0	7.6	11.4

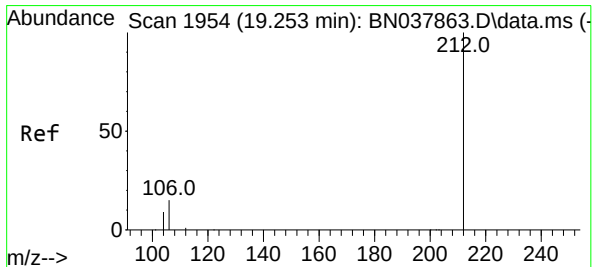
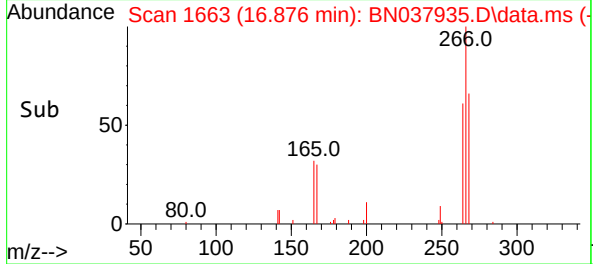
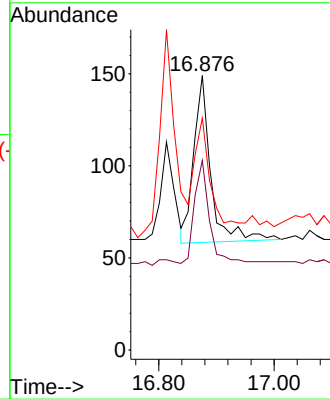
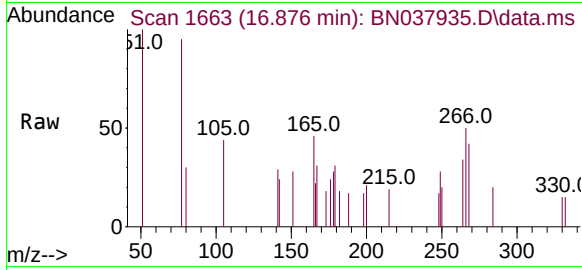




#24
Pentachlorophenol
Concen: 0.027 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

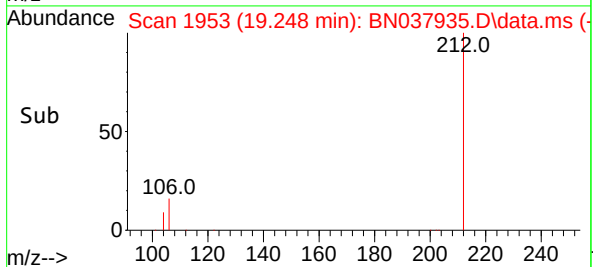
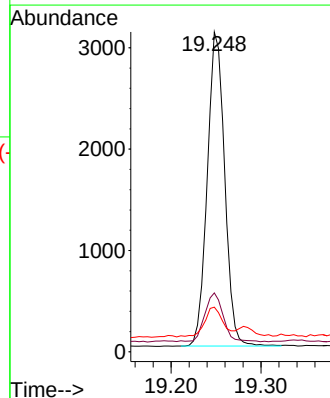
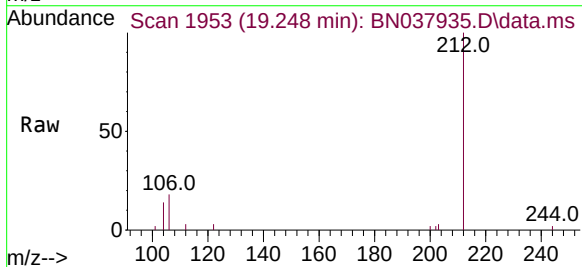
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

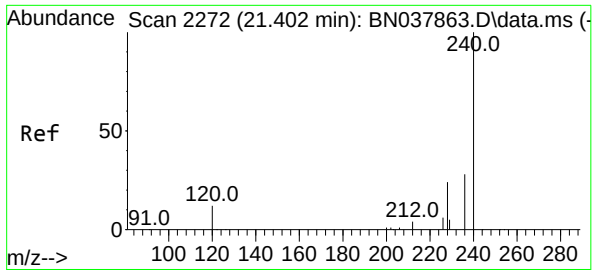
Tgt Ion:	266	Resp:	186
Ion Ratio	Lower	Upper	
266	100		
264	53.8	50.9	76.3
268	55.9	54.3	81.5



#27
Fluoranthene-d10
Concen: 0.065 ng
RT: 19.248 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion:	212	Resp:	4172
Ion Ratio	Lower	Upper	
212	100		
106	16.7	12.6	19.0
104	9.8	7.4	11.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037935.D

Acq: 29 Sep 2025 13:55

Instrument :

BNA_N

ClientSampleId :

VPB184-HYD-20250919

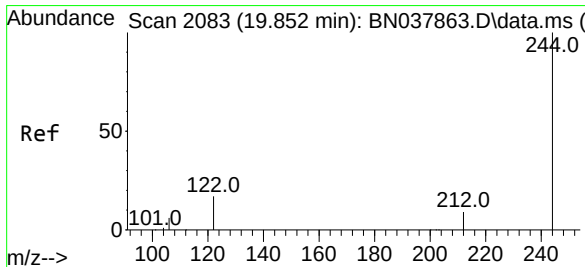
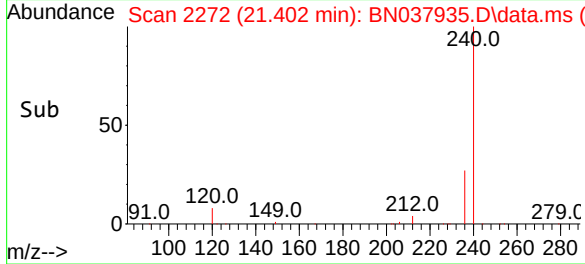
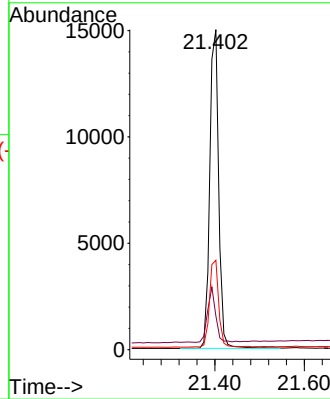
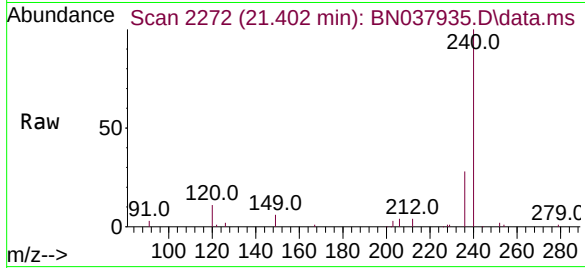
Tgt Ion:240 Resp: 20793

Ion Ratio Lower Upper

240 100

120 10.5 11.4 17.2#

236 27.9 23.0 34.6



#31

Terphenyl-d14

Concen: 0.456 ng

RT: 19.847 min Scan# 2082

Delta R.T. -0.005 min

Lab File: BN037935.D

Acq: 29 Sep 2025 13:55

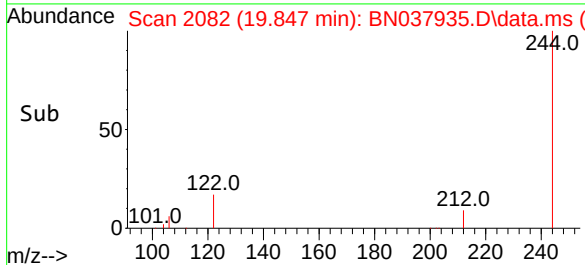
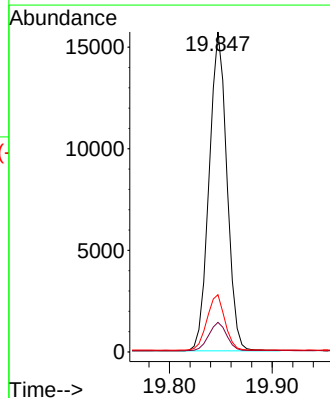
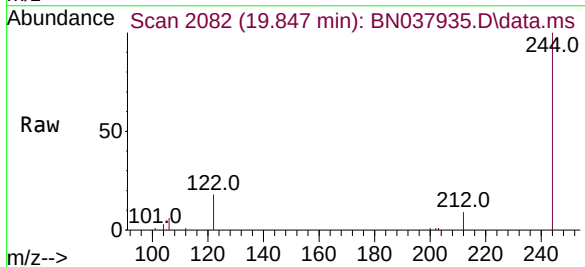
Tgt Ion:244 Resp: 18900

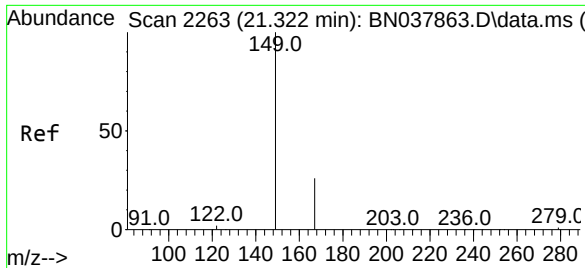
Ion Ratio Lower Upper

244 100

212 9.3 7.6 11.4

122 17.9 13.9 20.9

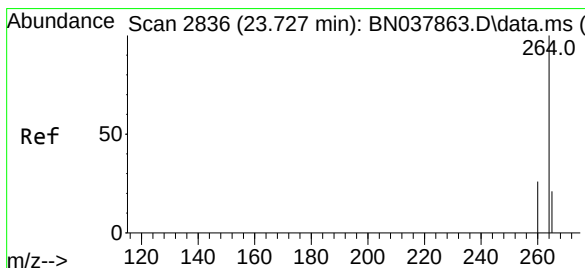
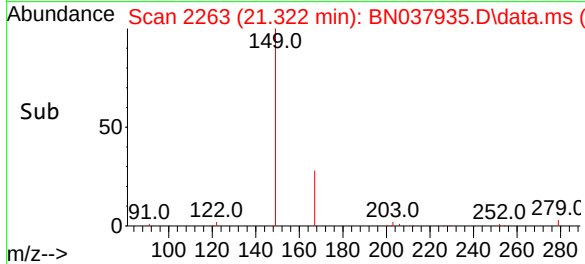
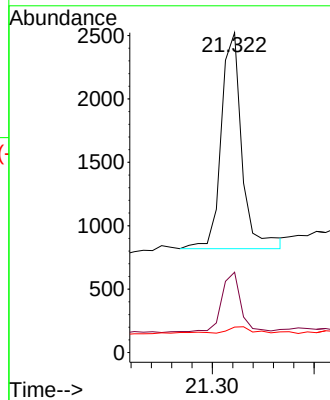
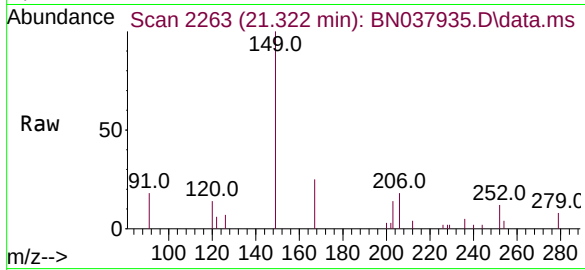




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.322 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

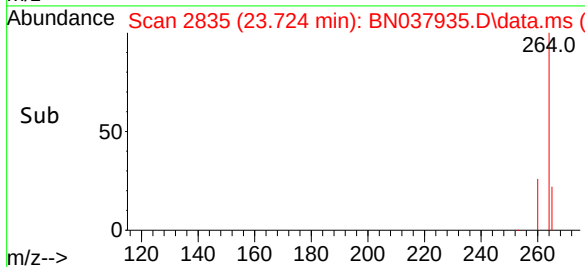
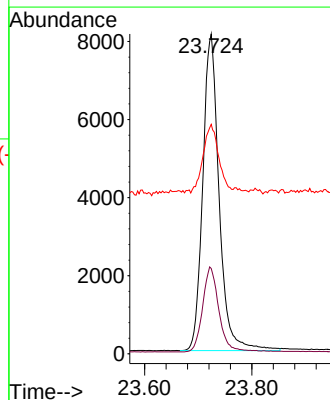
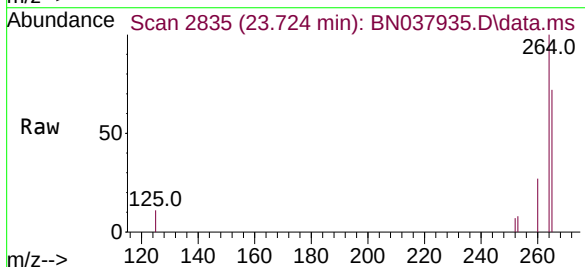
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250919

Tgt Ion:149 Resp: 2420
Ion Ratio Lower Upper
149 100
167 24.6 20.4 30.6
279 4.2 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.724 min Scan# 2835
Delta R.T. -0.003 min
Lab File: BN037935.D
Acq: 29 Sep 2025 13:55

Tgt Ion:264 Resp: 17157
Ion Ratio Lower Upper
264 100
260 26.7 21.5 32.3
265 71.7 53.8 80.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/22/25
Client Sample ID:	BP-VPB-184-GW-260-262	SDG No.:	Q3165
Lab Sample ID:	Q3165-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	840 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037936.D	1	09/25/25 11:00	09/29/25 14:32	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.43		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9860	7.818				
1146-65-2	Naphthalene-d8	30100	10.616				
15067-26-2	Acenaphthene-d10	16700	14.473				
1517-22-2	Phenanthrene-d10	35400	17.211				
1719-03-5	Chrysene-d12	36100	21.393				
1520-96-3	Perylene-d12	36300	23.721				

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\BN092925\
Data File : BN037936.D
Acq On : 29 Sep 2025 14:32
Operator : RC/JU
Sample : Q3165-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

Quant Time: Sep 29 14:56:33 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

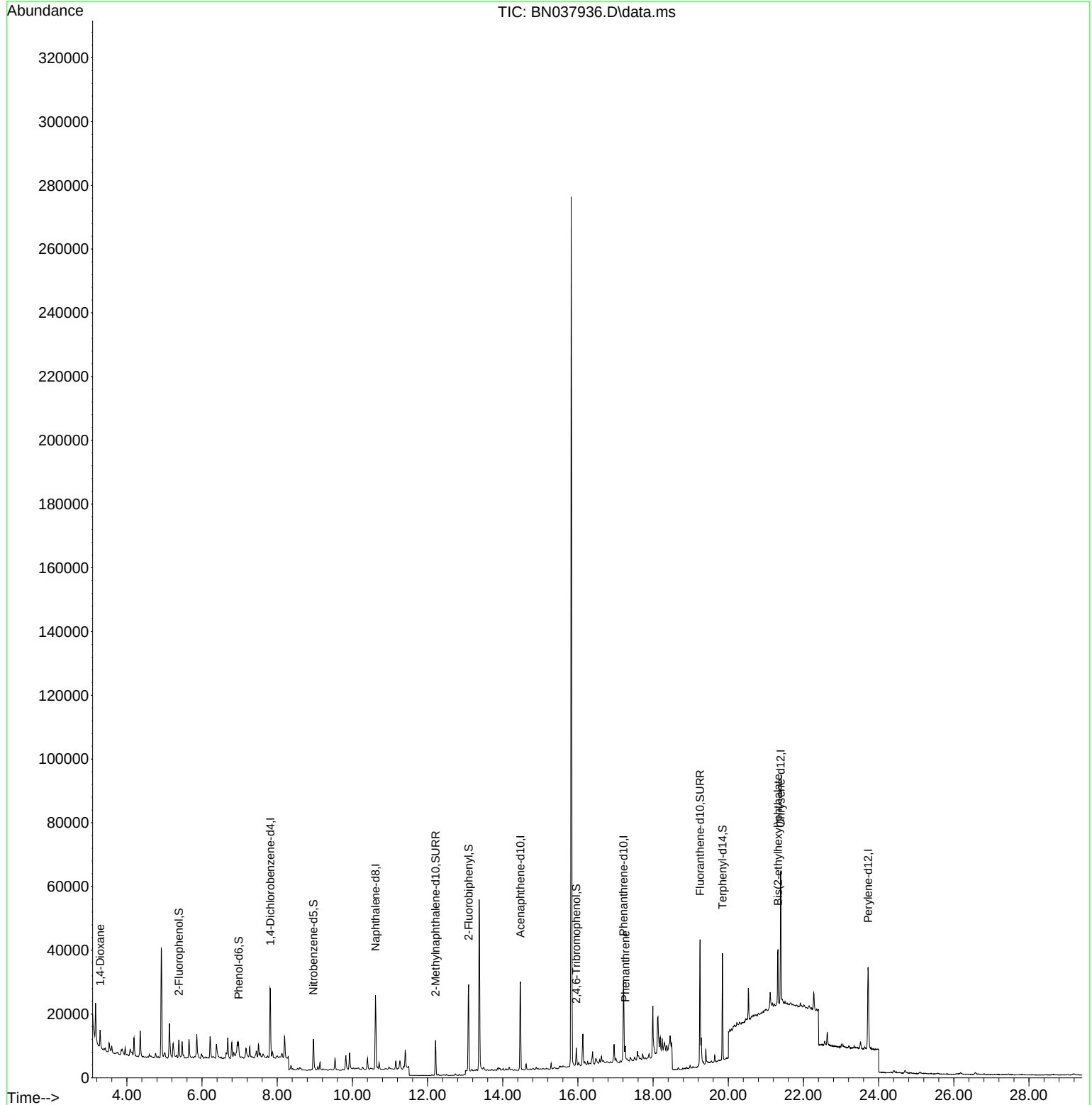
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	9861	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	30069	0.400	ng	#-0.01
13) Acenaphthene-d10	14.473	164	16737	0.400	ng	0.00
19) Phenanthrene-d10	17.211	188	35434	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	36101	0.400	ng	# 0.00
35) Perylene-d12	23.721	264	36307	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4259	0.189	ng	0.00
5) Phenol-d6	6.973	99	3855	0.130	ng	0.00
8) Nitrobenzene-d5	8.961	82	7422	0.324	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	14236	0.341	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	2939	0.463	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	23787	0.347	ng	0.00
27) Fluoranthene-d10	19.248	212	41170	0.462	ng	0.00
31) Terphenyl-d14	19.847	244	31102	0.433	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	3658	0.365	ng	# 76
25) Phenanthrene	17.260	178	4282	0.037	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.322	149	18281	0.366	ng	97

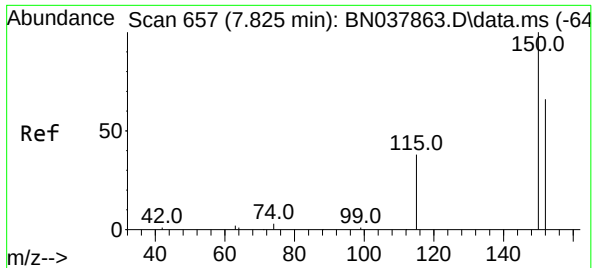
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037936.D
Acq On : 29 Sep 2025 14:32
Operator : RC/JU
Sample : Q3165-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

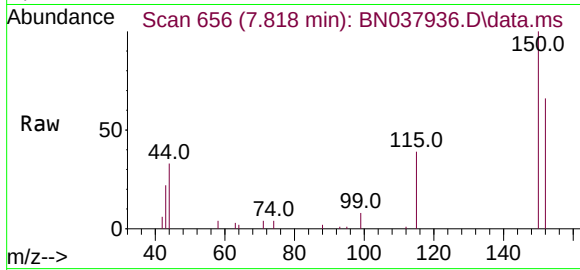
Quant Time: Sep 29 14:56:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



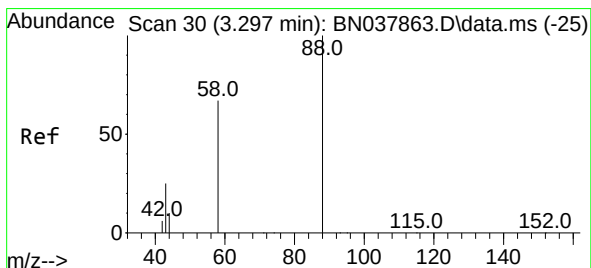
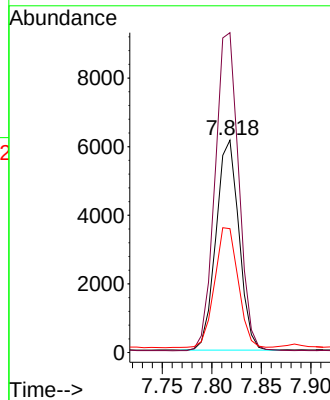
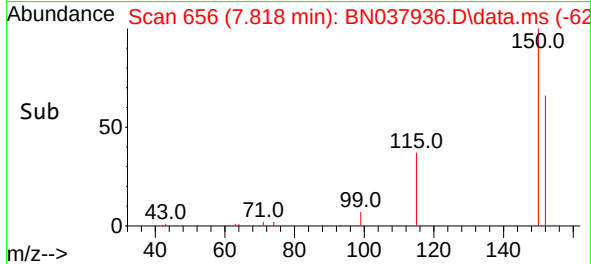


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.818 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037936.D
 Acq: 29 Sep 2025 14:32

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-GW-260-262

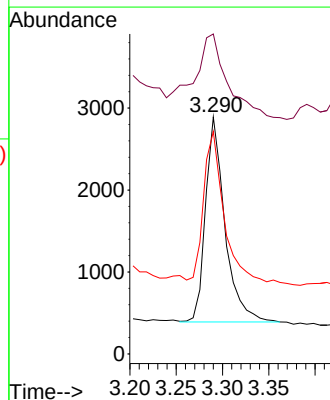
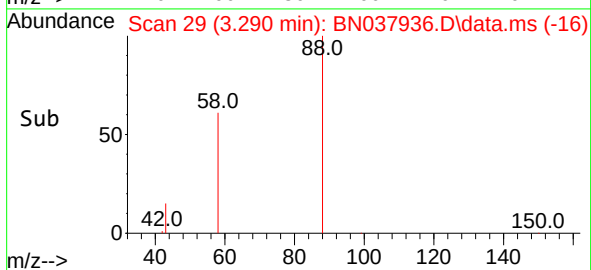
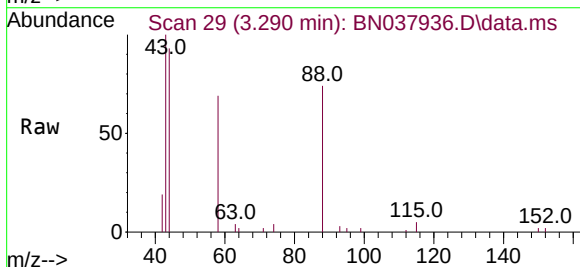


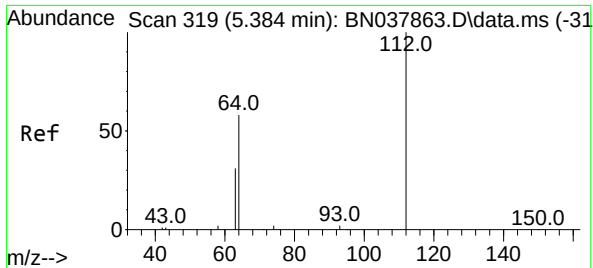
Tgt Ion:152 Resp: 9861
 Ion Ratio Lower Upper
 152 100
 150 150.6 121.0 181.4
 115 58.3 47.4 71.0



#2
 1,4-Dioxane
 Concen: 0.365 ng
 RT: 3.290 min Scan# 29
 Delta R.T. -0.007 min
 Lab File: BN037936.D
 Acq: 29 Sep 2025 14:32

Tgt Ion: 88 Resp: 3658
 Ion Ratio Lower Upper
 88 100
 43 73.1 26.6 39.8#
 58 76.3 58.9 88.3

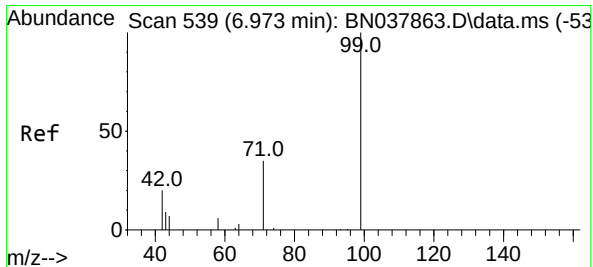
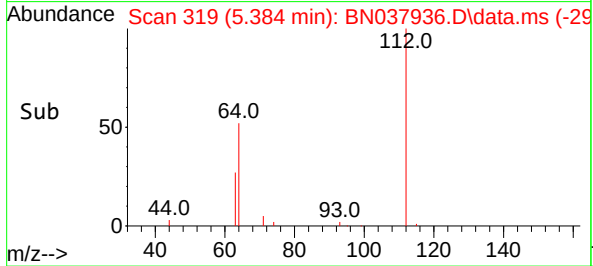
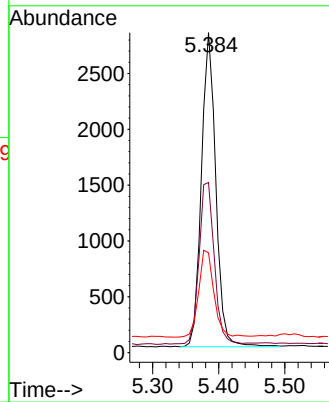
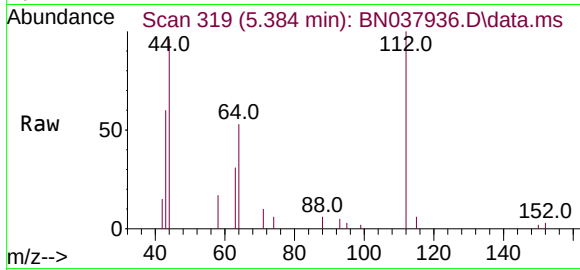




#4
2-Fluorophenol
Concen: 0.189 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

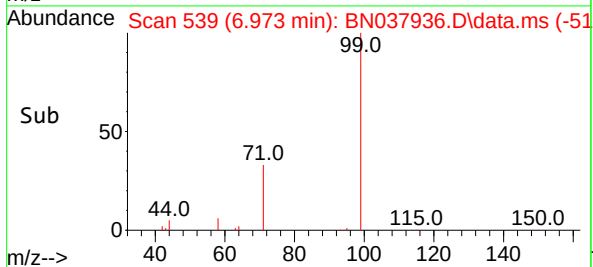
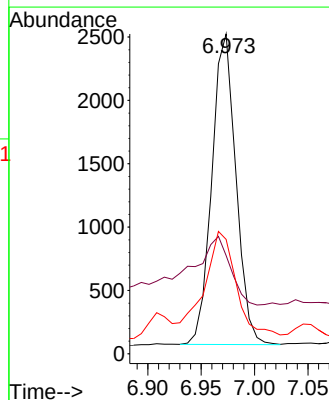
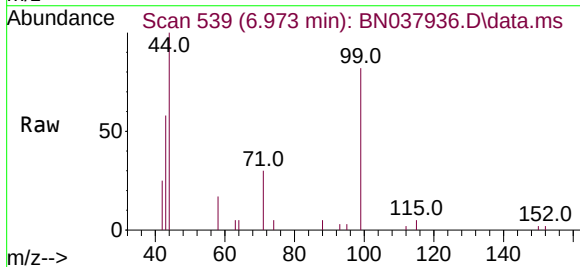
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

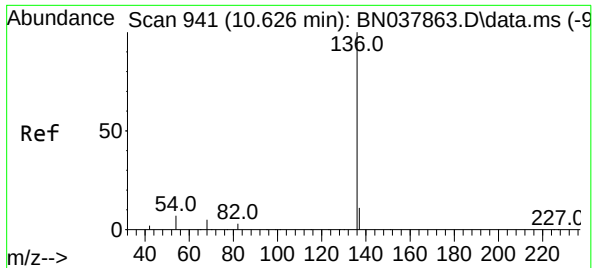
Tgt Ion:	112	Resp:	4259
Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.6	66.8
63	29.5	24.9	37.3



#5
Phenol-d6
Concen: 0.130 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

Tgt Ion:	99	Resp:	3855
Ion	Ratio	Lower	Upper
99	100		
42	46.9	17.2	25.8#
71	47.7	27.3	40.9#

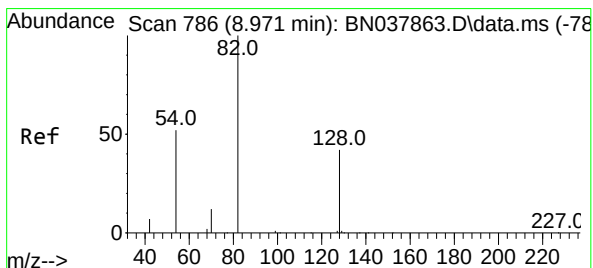
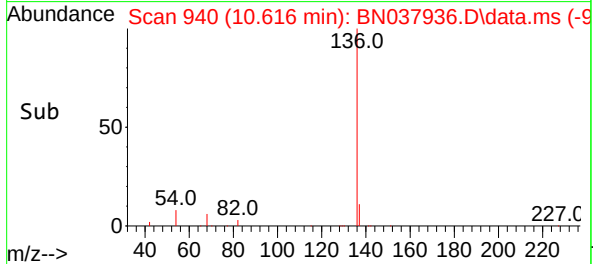
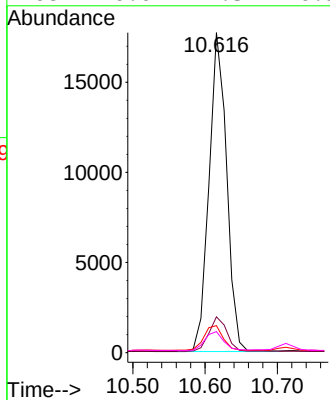
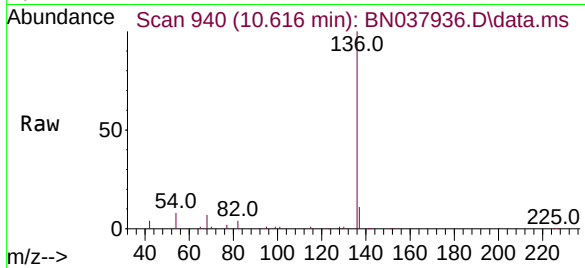




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

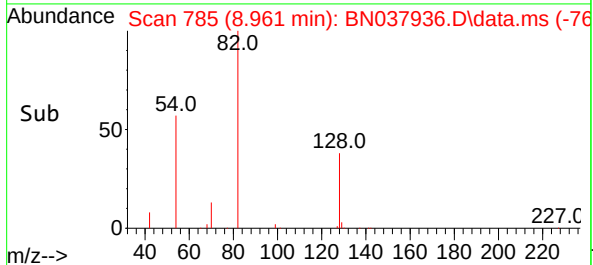
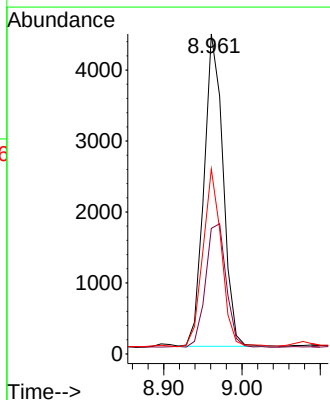
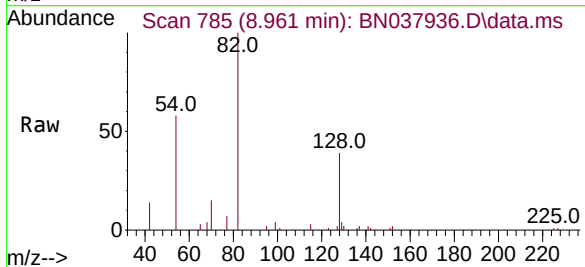
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

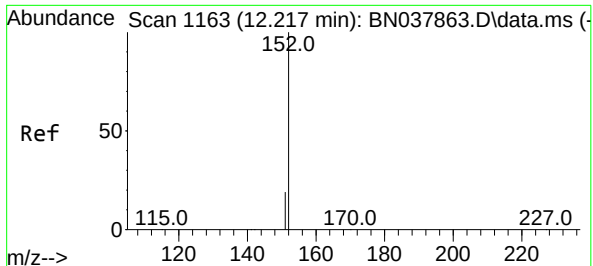
Tgt Ion:136	Resp:	30069
Ion	Ratio	Lower Upper
136	100	
137	11.2	9.0 13.4
54	8.4	5.8 8.8
68	6.6	4.3 6.5



#8
Nitrobenzene-d5
Concen: 0.324 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

Tgt Ion: 82	Resp:	7422
Ion	Ratio	Lower Upper
82	100	
128	39.2	34.8 52.2
54	57.8	42.2 63.2

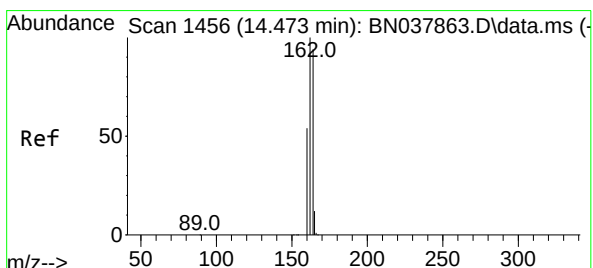
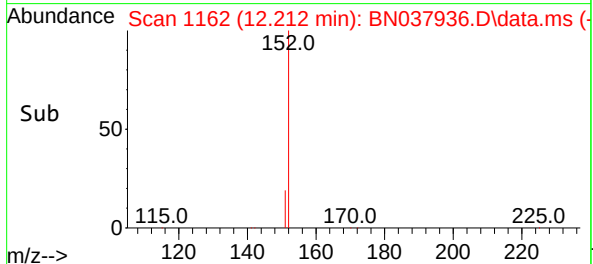
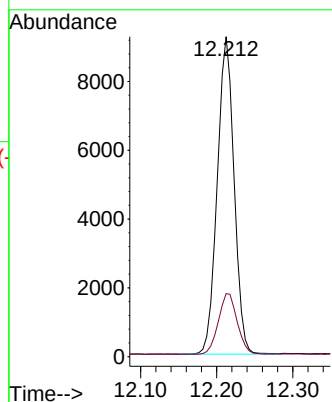
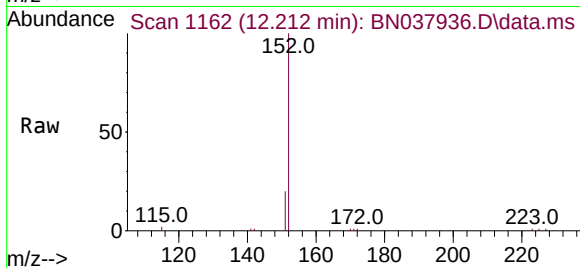




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

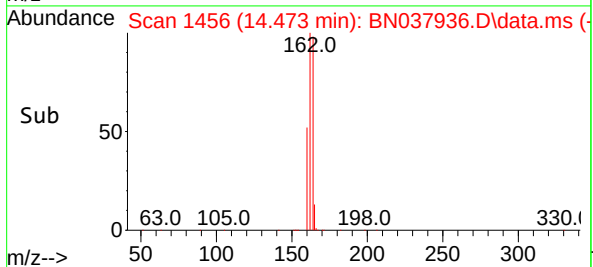
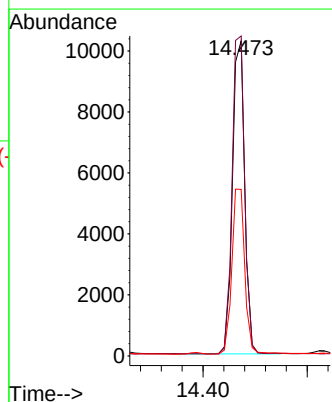
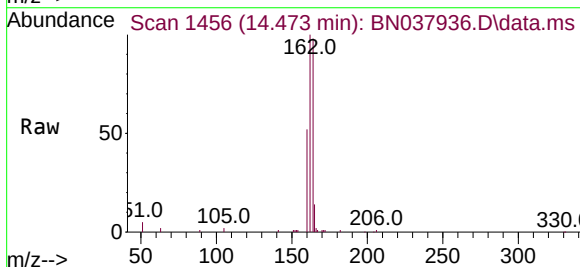
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

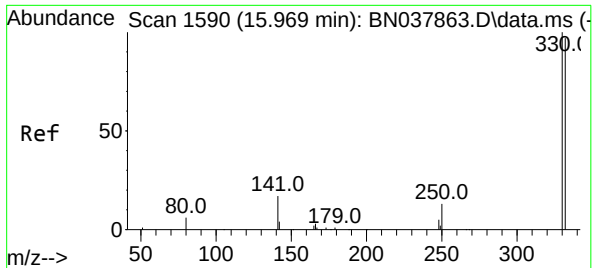
Tgt Ion:152 Resp: 14236
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

Tgt Ion:164 Resp: 16737
Ion Ratio Lower Upper
164 100
162 101.6 84.8 127.2
160 52.9 46.1 69.1

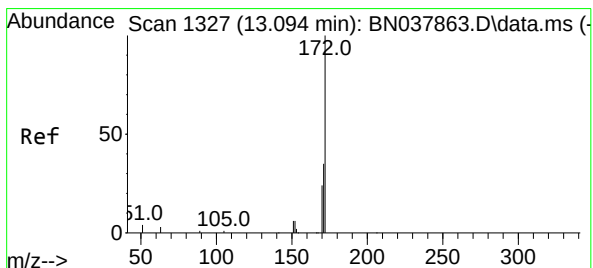
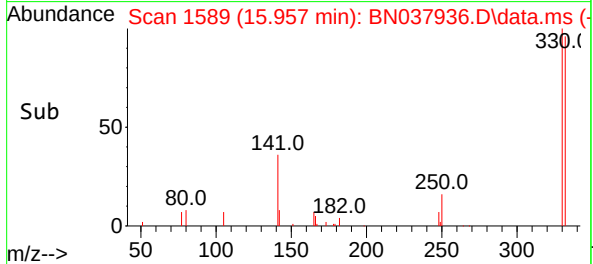
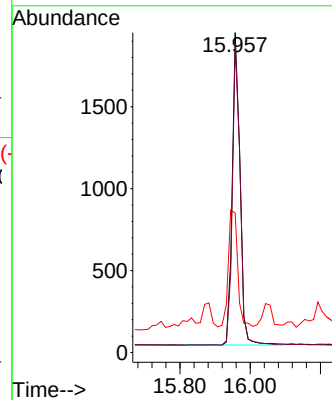
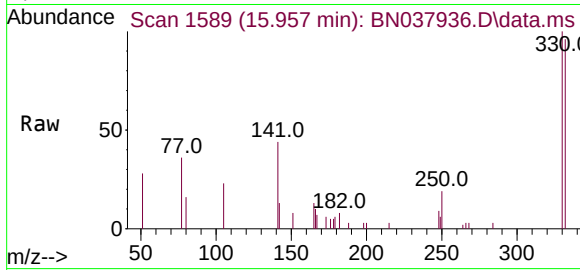




#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

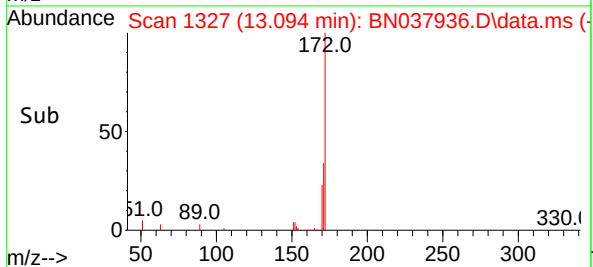
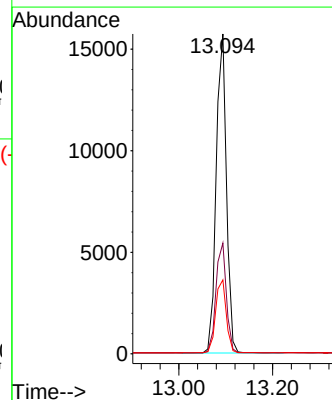
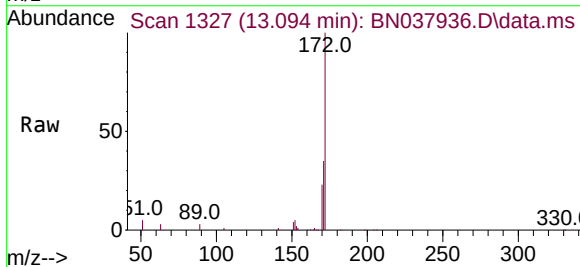
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

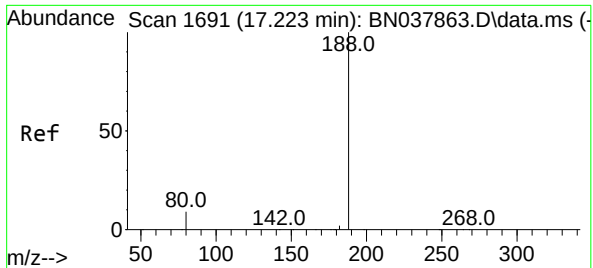
Tgt Ion	330	Resp	2939
Ion Ratio	Lower	Upper	
330	100		
332	96.0	77.2	115.8
141	44.4	37.2	55.8



#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

Tgt Ion	172	Resp	23787
Ion Ratio	Lower	Upper	
172	100		
171	34.6	28.6	43.0
170	23.1	19.7	29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1690

Delta R.T. -0.012 min

Lab File: BN037936.D

Acq: 29 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-260-262

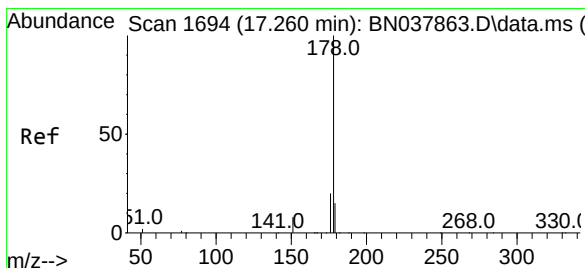
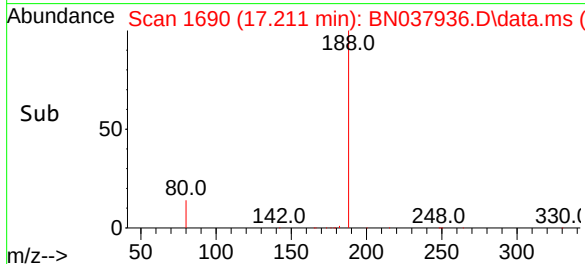
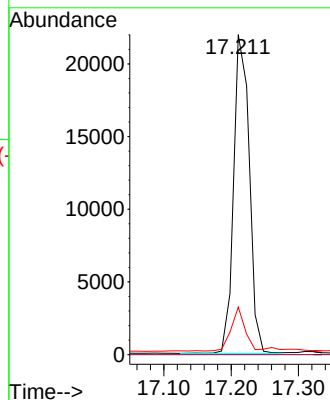
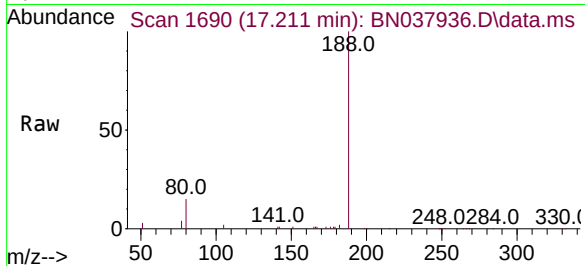
Tgt Ion:188 Resp: 35434

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.9 7.6 11.4#



#25

Phenanthrene

Concen: 0.037 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037936.D

Acq: 29 Sep 2025 14:32

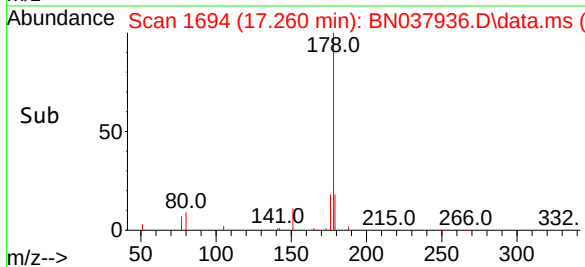
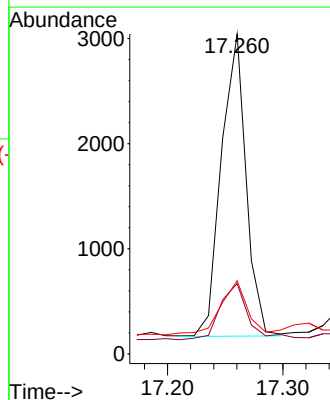
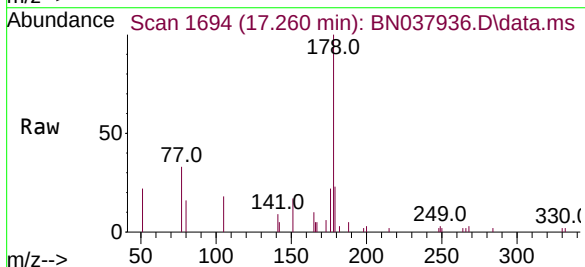
Tgt Ion:178 Resp: 4282

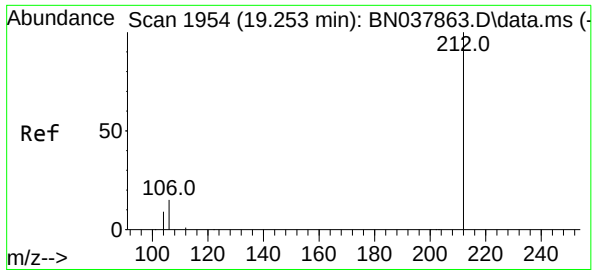
Ion Ratio Lower Upper

178 100

176 22.1 15.7 23.5

179 21.6 12.3 18.5#





#27

Fluoranthene-d10

Concen: 0.462 ng

RT: 19.248 min Scan# 1953

Delta R.T. -0.005 min

Lab File: BN037936.D

Acq: 29 Sep 2025 14:32

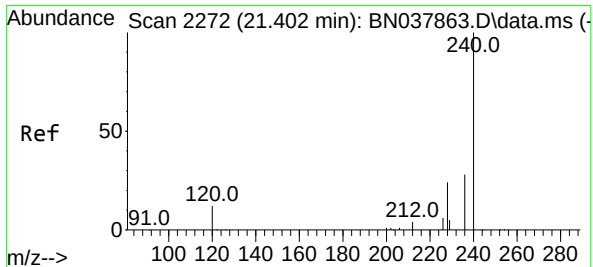
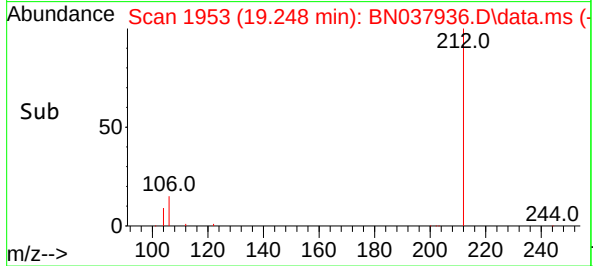
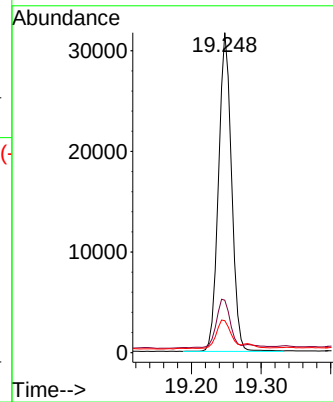
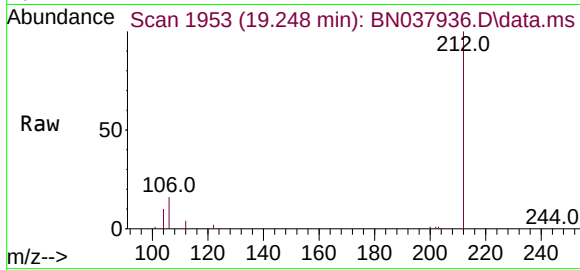
Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-260-262

Tgt Ion:	212	Resp:	41170
Ion Ratio	Lower	Upper	
212	100		
106	17.1	12.6	19.0
104	9.8	7.4	11.0



#29

Chrysene-d12

Concen: 0.400 ng

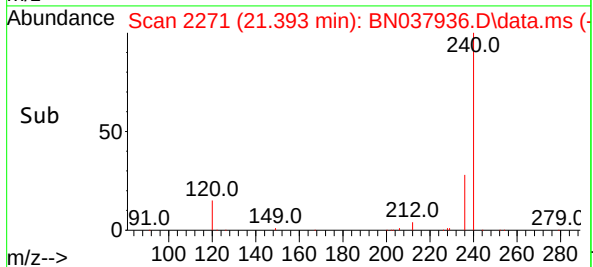
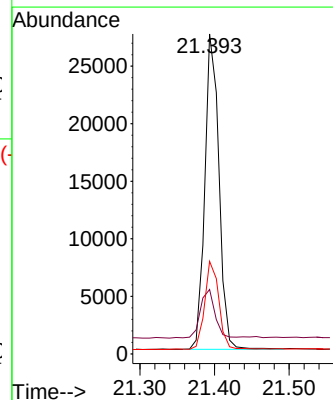
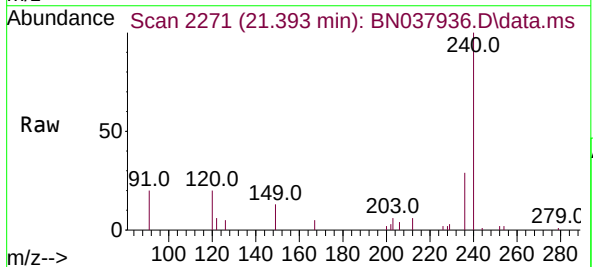
RT: 21.393 min Scan# 2271

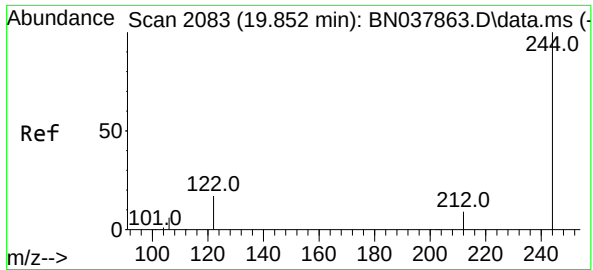
Delta R.T. -0.009 min

Lab File: BN037936.D

Acq: 29 Sep 2025 14:32

Tgt Ion:	240	Resp:	36101
Ion Ratio	Lower	Upper	
240	100		
120	20.1	11.4	17.2#
236	28.9	23.0	34.6

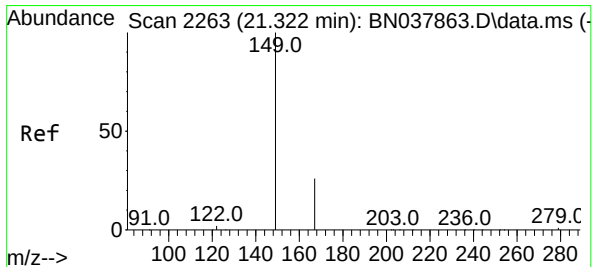
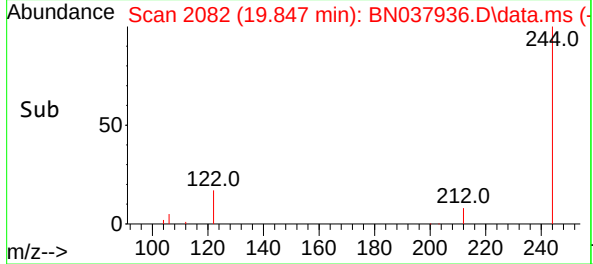
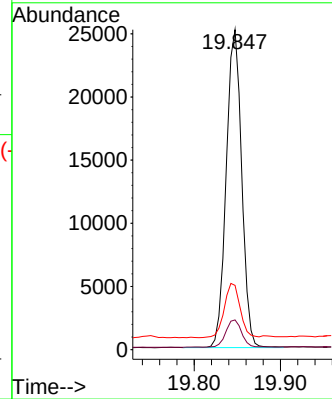
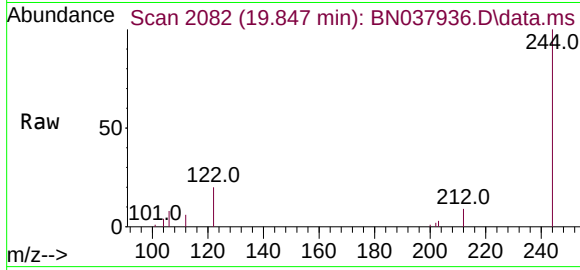




#31
Terphenyl-d14
Concen: 0.433 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

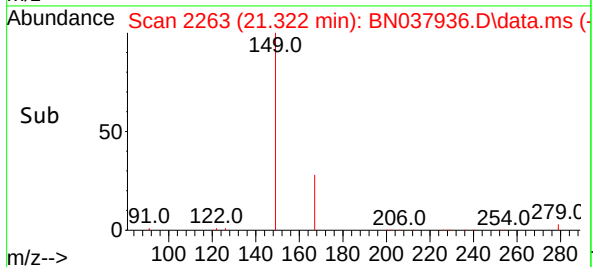
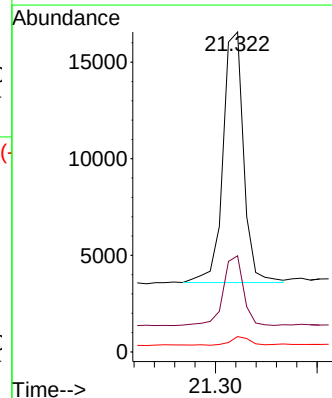
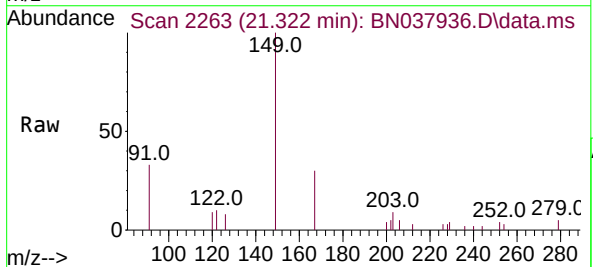
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-260-262

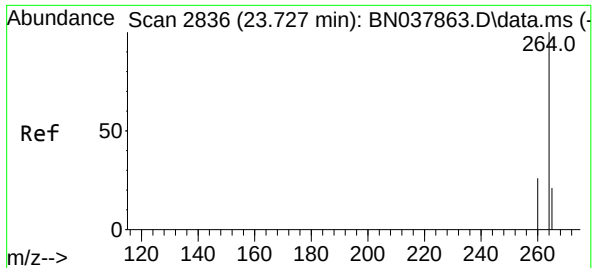
Tgt Ion:244 Resp: 31102
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 20.1 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.366 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037936.D
Acq: 29 Sep 2025 14:32

Tgt Ion:149 Resp: 18281
Ion Ratio Lower Upper
149 100
167 27.1 20.4 30.6
279 3.0 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.721 min Scan# 2834

Delta R.T. -0.006 min

Lab File: BN037936.D

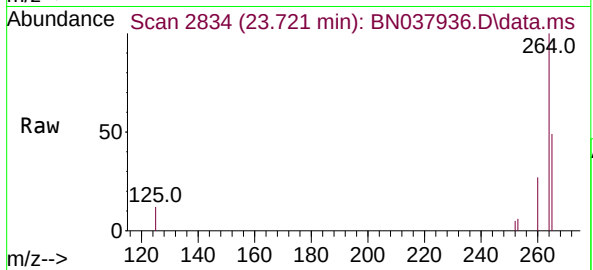
Acq: 29 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-260-262



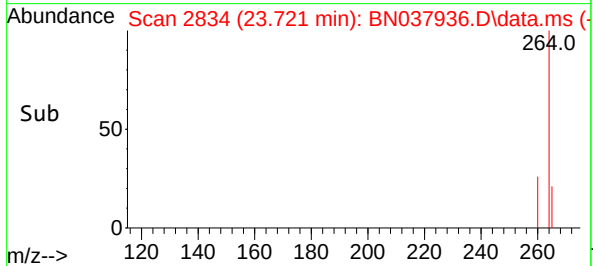
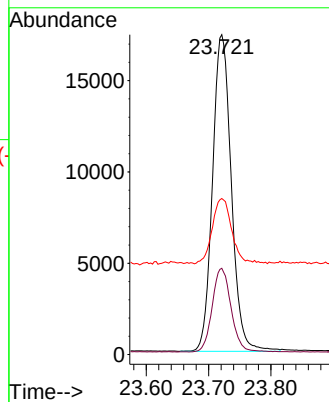
Tgt Ion:264 Resp: 36307

Ion Ratio Lower Upper

264 100

260 27.0 21.5 32.3

265 48.8 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/22/25
Client Sample ID:	BP-VPB-184-GW-300-302	SDG No.:	Q3165
Lab Sample ID:	Q3165-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	760 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037937.D	1	09/25/25 11:00	09/29/25 15:08	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	J	0.090	0.26	0.26	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8450		7.818			
1146-65-2	Naphthalene-d8	25700		10.616			
15067-26-2	Acenaphthene-d10	14600		14.473			
1517-22-2	Phenanthrene-d10	31200		17.211			
1719-03-5	Chrysene-d12	32100		21.402			
1520-96-3	Perylene-d12	35200		23.724			

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\BN092925\
Data File : BN037937.D
Acq On : 29 Sep 2025 15:08
Operator : RC/JU
Sample : Q3165-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

Quant Time: Sep 29 15:33:40 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

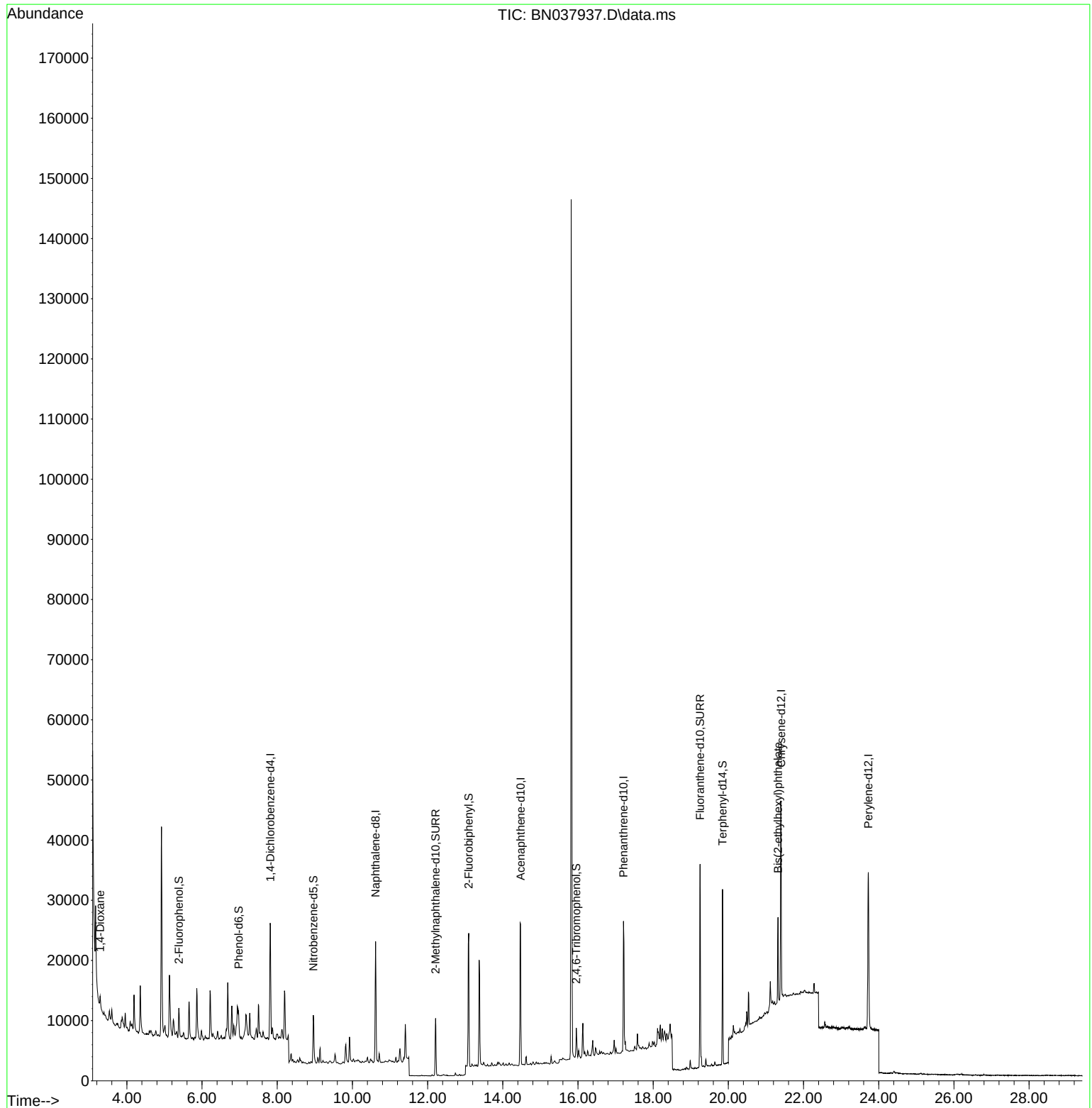
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	8452	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	25701	0.400	ng	#-0.01
13) Acenaphthene-d10	14.473	164	14574	0.400	ng	0.00
19) Phenanthrene-d10	17.211	188	31224	0.400	ng	#-0.01
29) Chrysene-d12	21.402	240	32073	0.400	ng	0.00
35) Perylene-d12	23.724	264	35207	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	3941	0.204	ng	0.00
5) Phenol-d6	6.973	99	3514	0.139	ng	0.00
8) Nitrobenzene-d5	8.961	82	6573	0.335	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	12125	0.340	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	2670	0.483	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	20024	0.336	ng	0.00
27) Fluoranthene-d10	19.248	212	35432	0.451	ng	0.00
31) Terphenyl-d14	19.847	244	26795	0.419	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	1373	0.160	ng	# 73
34) Bis(2-ethylhexyl)phtha...	21.322	149	12593	0.284	ng	# 97

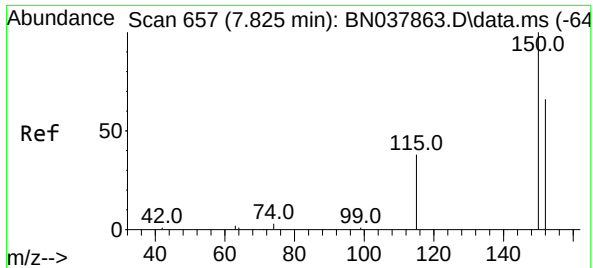
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037937.D
Acq On : 29 Sep 2025 15:08
Operator : RC/JU
Sample : Q3165-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

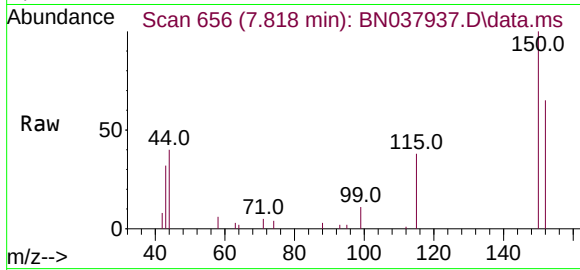
Quant Time: Sep 29 15:33:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



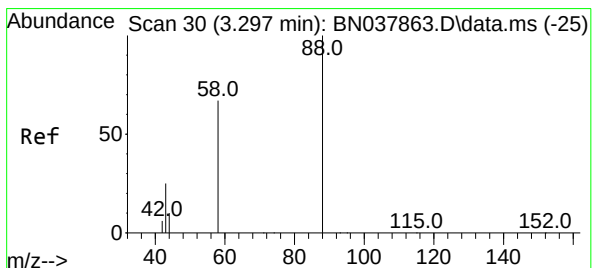
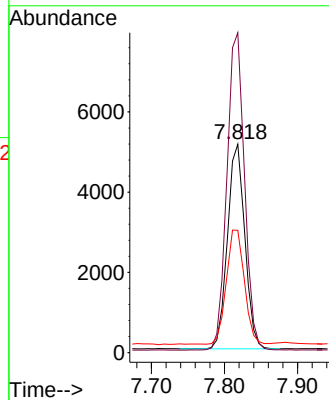
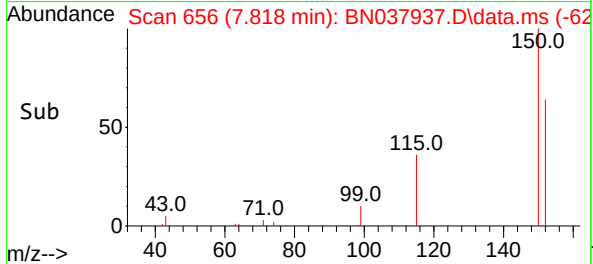


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

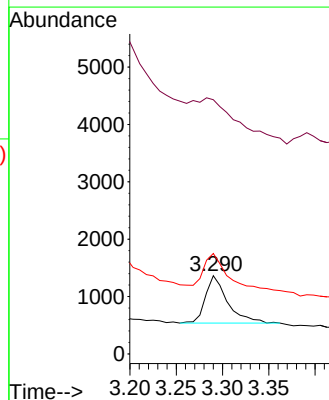
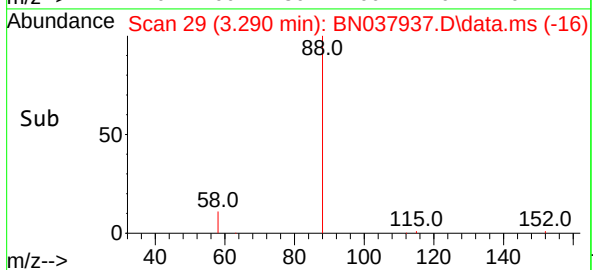
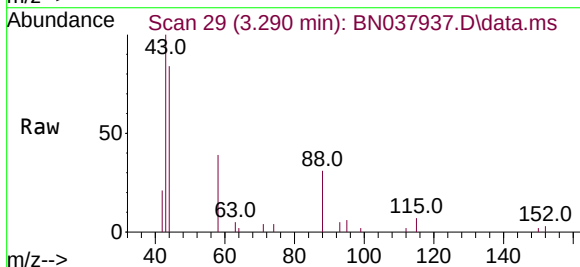


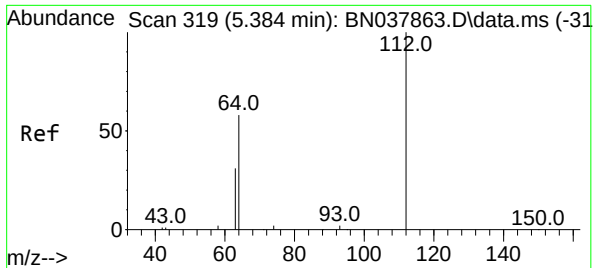
Tgt Ion:152 Resp: 8452
Ion Ratio Lower Upper
152 100
150 153.6 121.0 181.4
115 58.7 47.4 71.0



#2
1,4-Dioxane
Concen: 0.160 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion: 88 Resp: 1373
Ion Ratio Lower Upper
88 100
43 0.0 26.6 39.8#
58 83.8 58.9 88.3

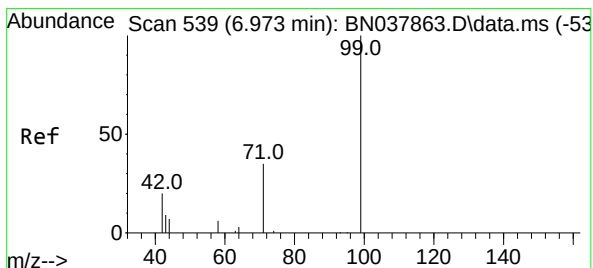
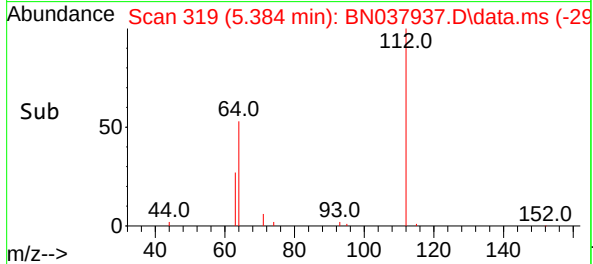
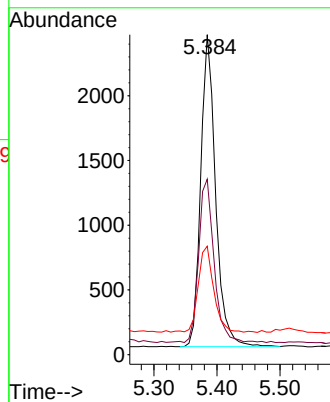
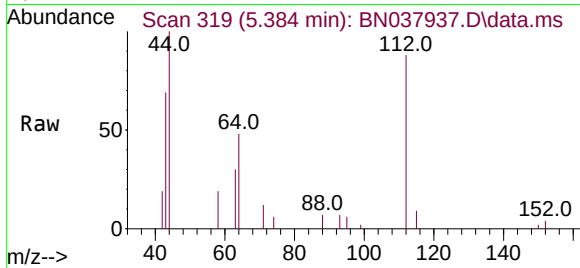




#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

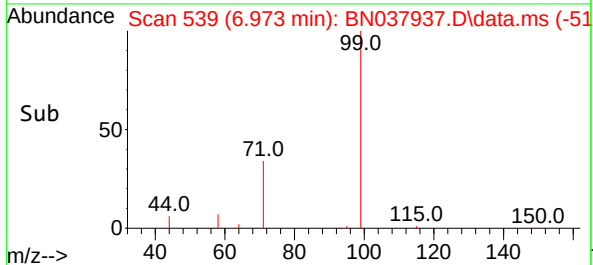
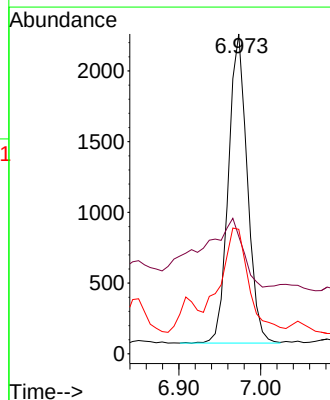
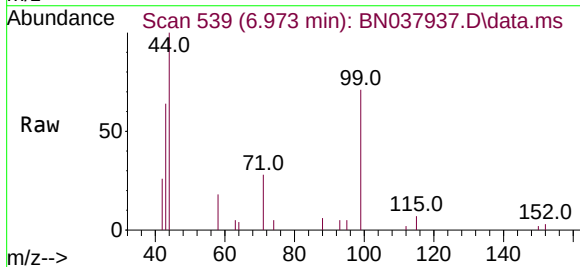
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

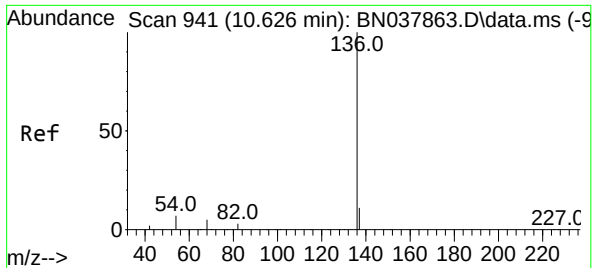
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.6	66.8
63	27.9	24.9	37.3



#5
Phenol-d6
Concen: 0.139 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion	Ratio	Lower	Upper
99	100		
42	50.7	17.2	25.8#
71	51.3	27.3	40.9#

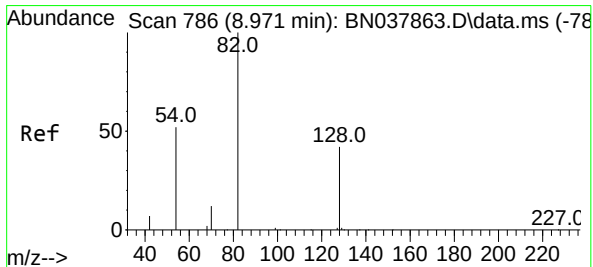
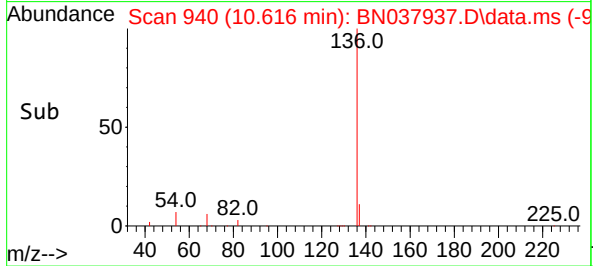
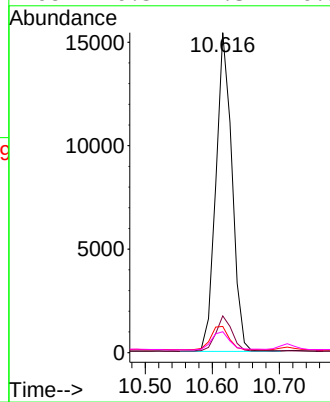
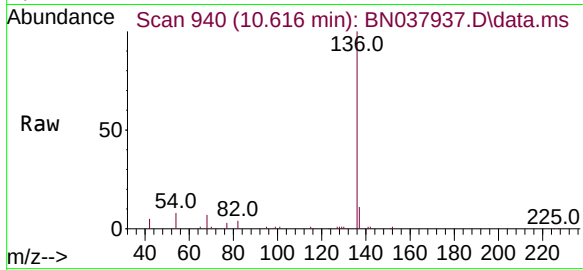




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

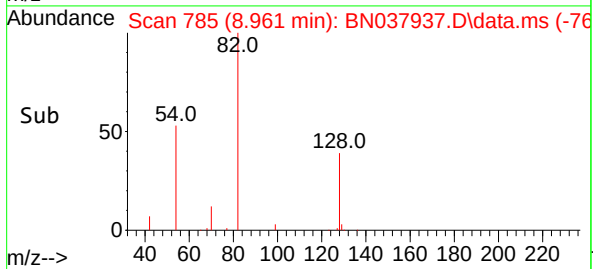
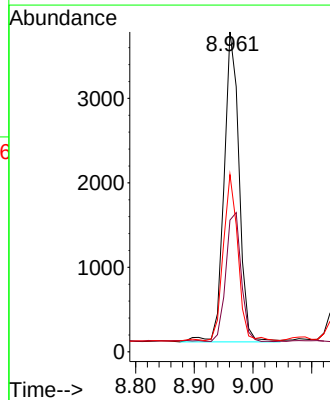
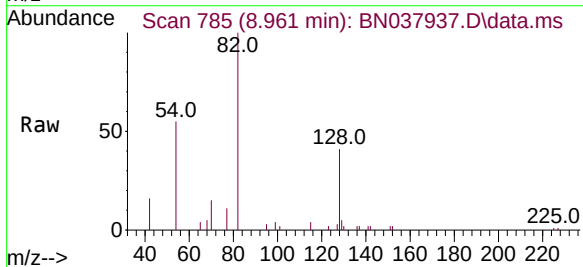
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

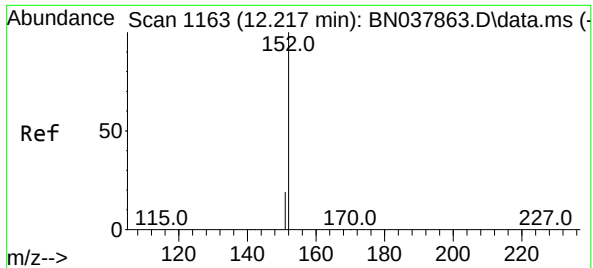
Tgt Ion:	136	Resp:	25701
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.0	13.4
54	8.2	5.8	8.8
68	6.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.335 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion:	82	Resp:	6573
Ion Ratio	Lower	Upper	
82	100		
128	41.2	34.8	52.2
54	55.4	42.2	63.2

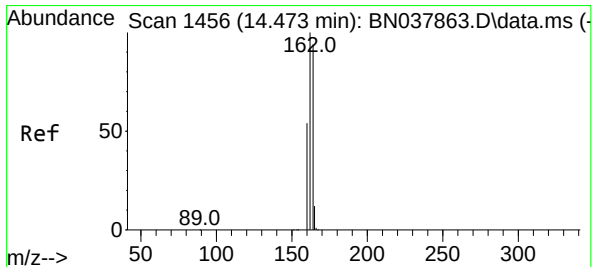
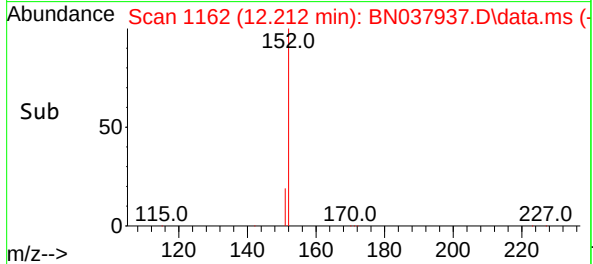
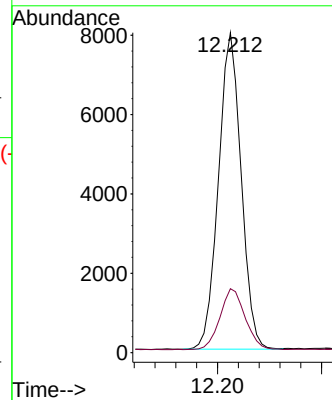
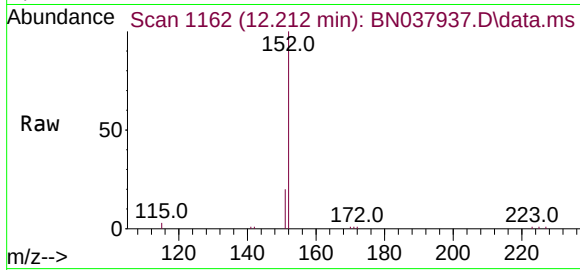




#11
2-Methylnaphthalene-d10
Concen: 0.340 ng
RT: 12.212 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

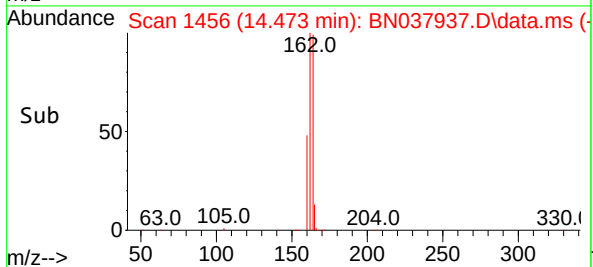
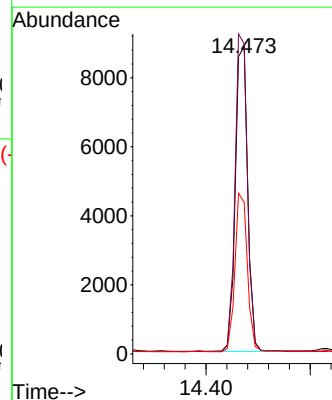
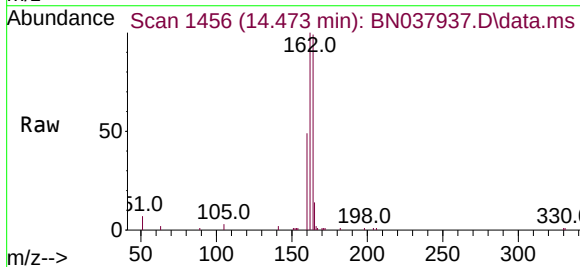
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

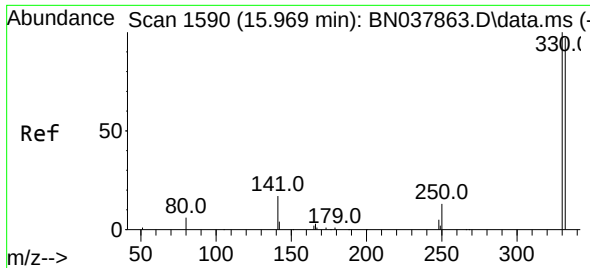
Tgt Ion:152 Resp: 12125
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion:164 Resp: 14574
Ion Ratio Lower Upper
164 100
162 100.9 84.8 127.2
160 49.2 46.1 69.1

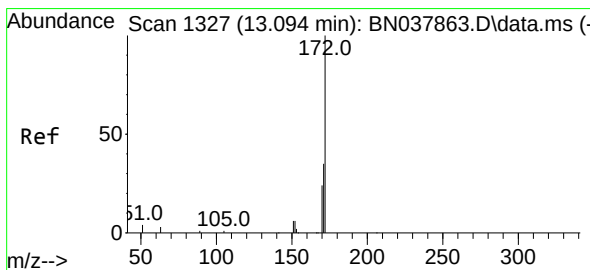
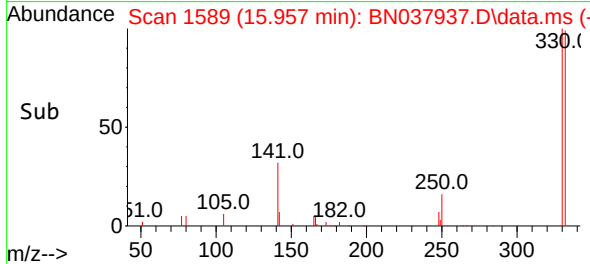
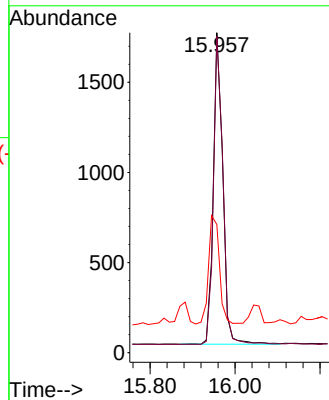
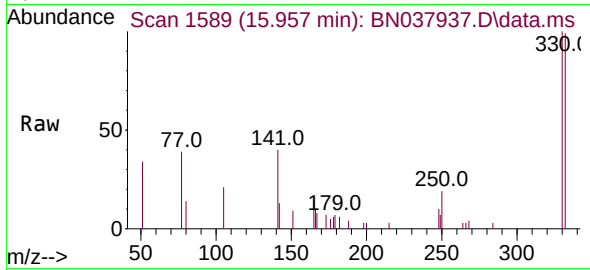




#14
2,4,6-Tribromophenol
Concen: 0.483 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

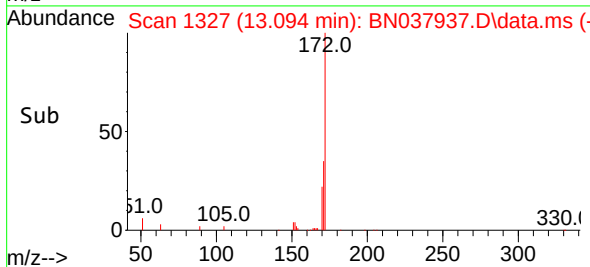
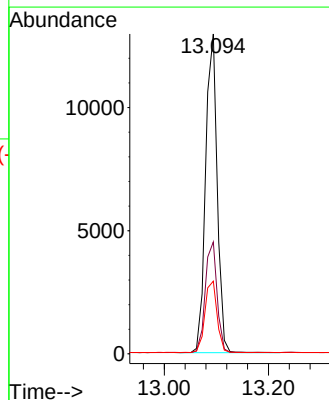
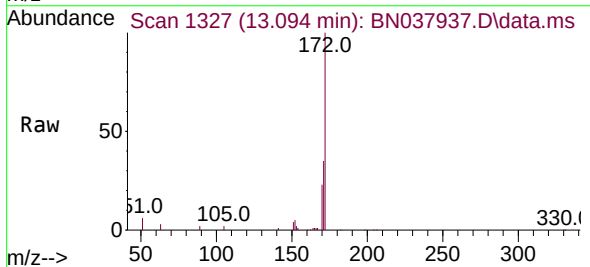
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

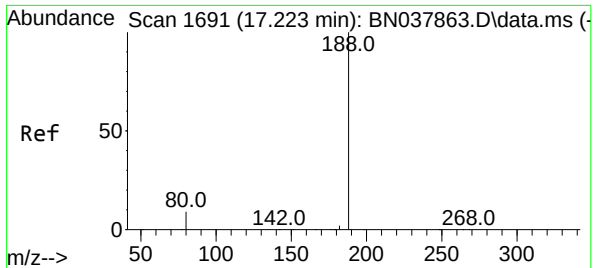
Tgt Ion	330	Resp	2670
Ion Ratio	Lower	Upper	
330	100		
332	98.4	77.2	115.8
141	39.5	37.2	55.8



#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion	172	Resp	20024
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.6	43.0
170	22.7	19.7	29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1691

Delta R.T. -0.012 min

Lab File: BN037937.D

Acq: 29 Sep 2025 15:08

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-300-302

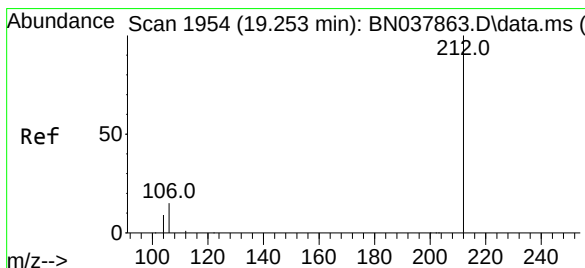
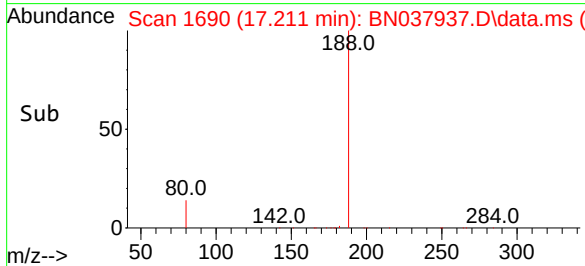
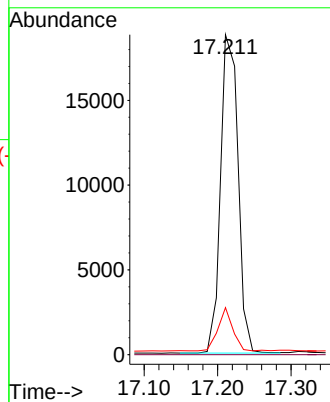
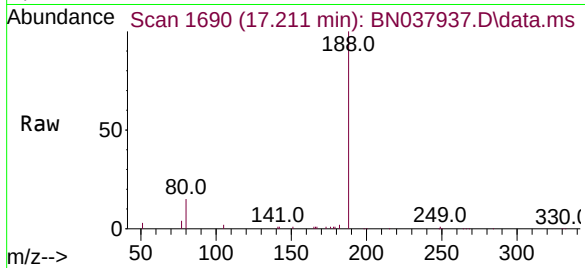
Tgt Ion:188 Resp: 31224

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.7 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.451 ng

RT: 19.248 min Scan# 1953

Delta R.T. -0.005 min

Lab File: BN037937.D

Acq: 29 Sep 2025 15:08

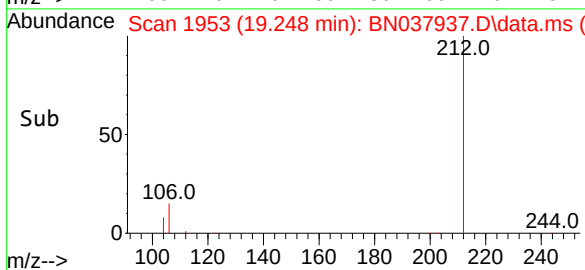
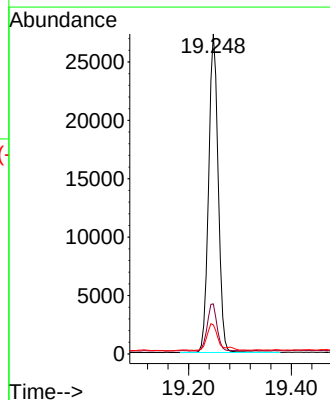
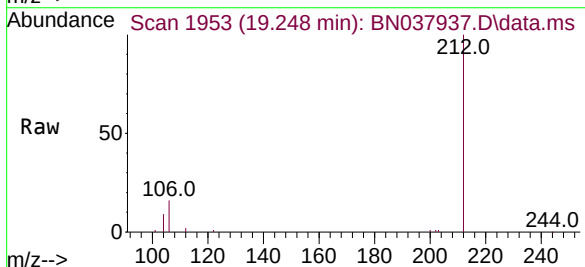
Tgt Ion:212 Resp: 35432

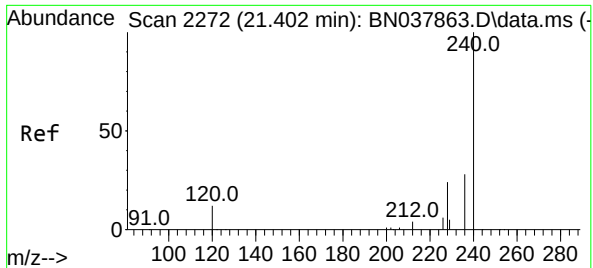
Ion Ratio Lower Upper

212 100

106 15.4 12.6 19.0

104 8.9 7.4 11.0

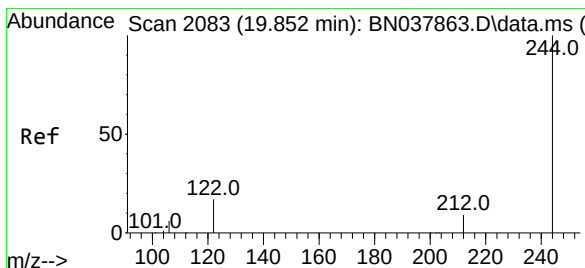
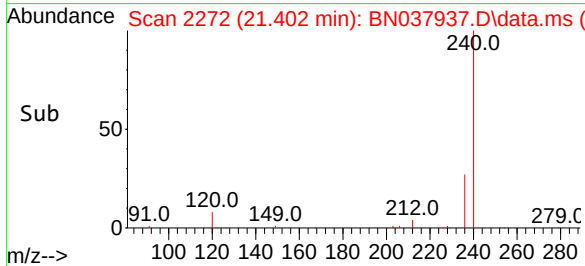
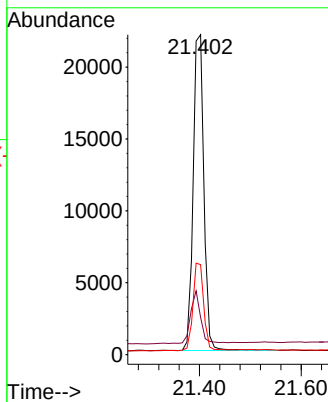
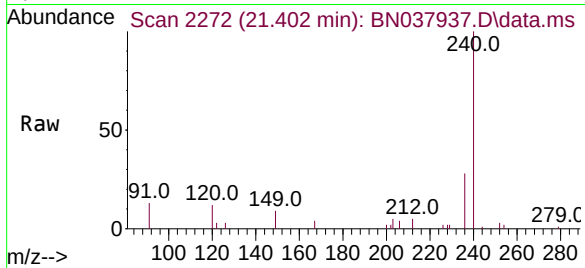




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

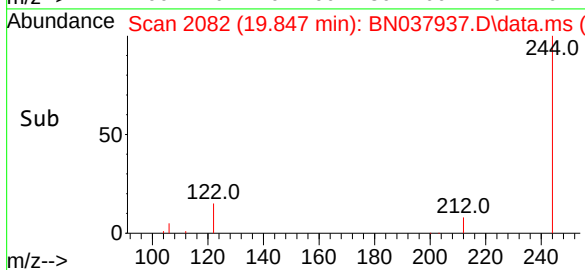
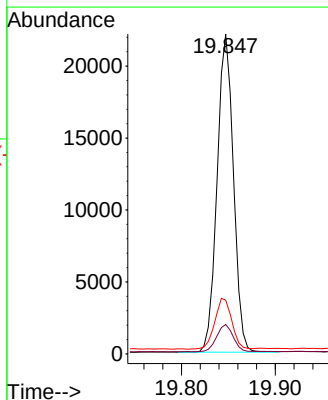
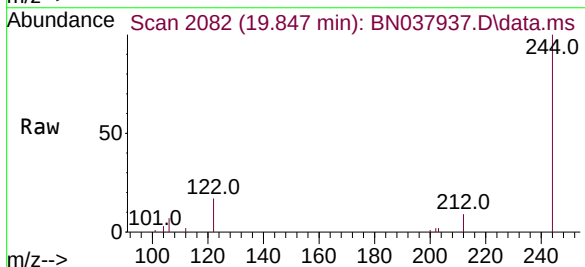
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

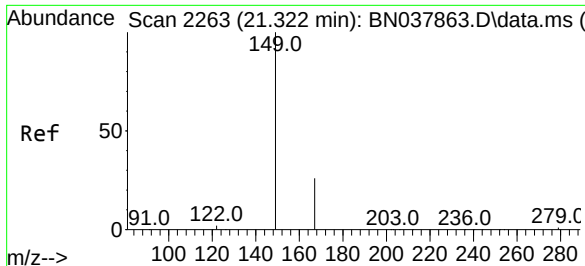
Tgt Ion:240 Resp: 32073
Ion Ratio Lower Upper
240 100
120 11.6 11.4 17.2
236 28.1 23.0 34.6



#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion:244 Resp: 26795
Ion Ratio Lower Upper
244 100
212 9.2 7.6 11.4
122 16.8 13.9 20.9

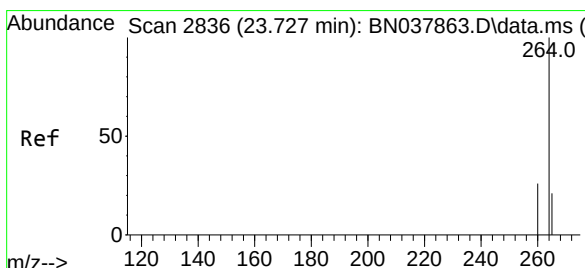
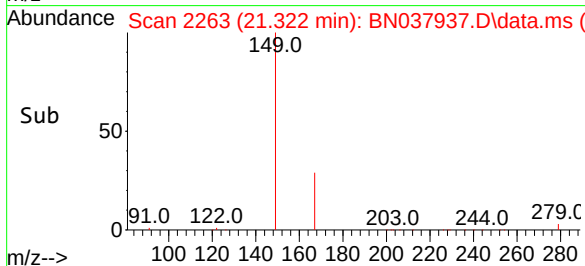
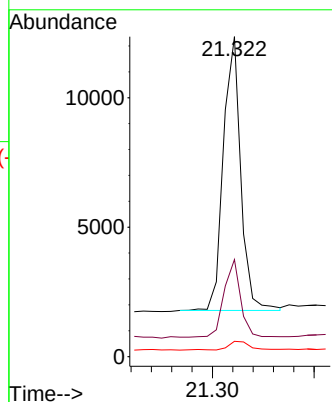
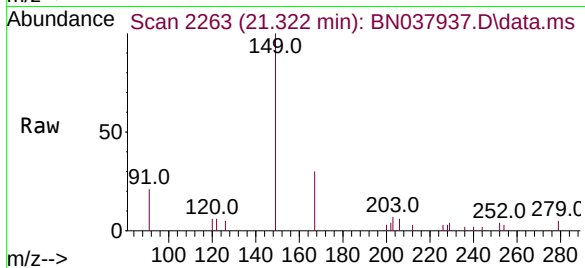




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.284 ng
RT: 21.322 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

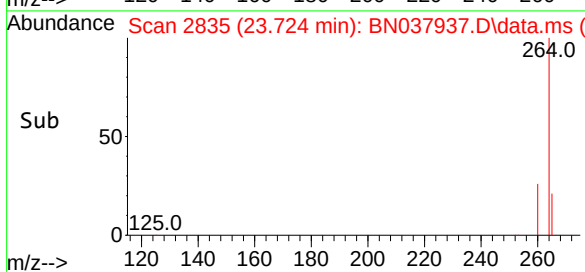
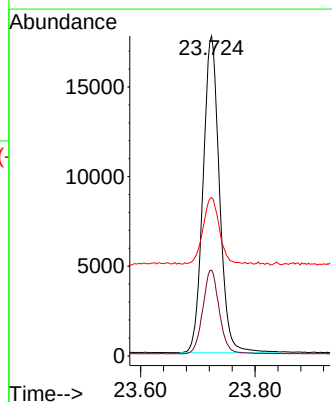
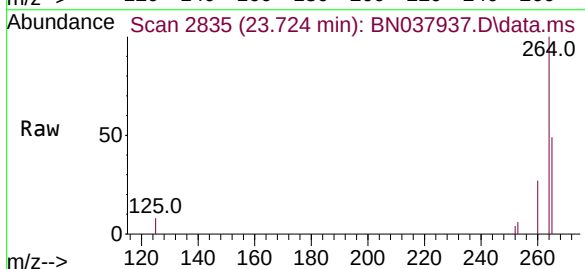
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-300-302

Tgt Ion:149 Resp: 12593
Ion Ratio Lower Upper
149 100
167 27.0 20.4 30.6
279 4.1 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.724 min Scan# 2835
Delta R.T. -0.003 min
Lab File: BN037937.D
Acq: 29 Sep 2025 15:08

Tgt Ion:264 Resp: 35207
Ion Ratio Lower Upper
264 100
260 26.8 21.5 32.3
265 49.5 53.8 80.6#





CALIBRATION SUMMARY

- 1
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- 17

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

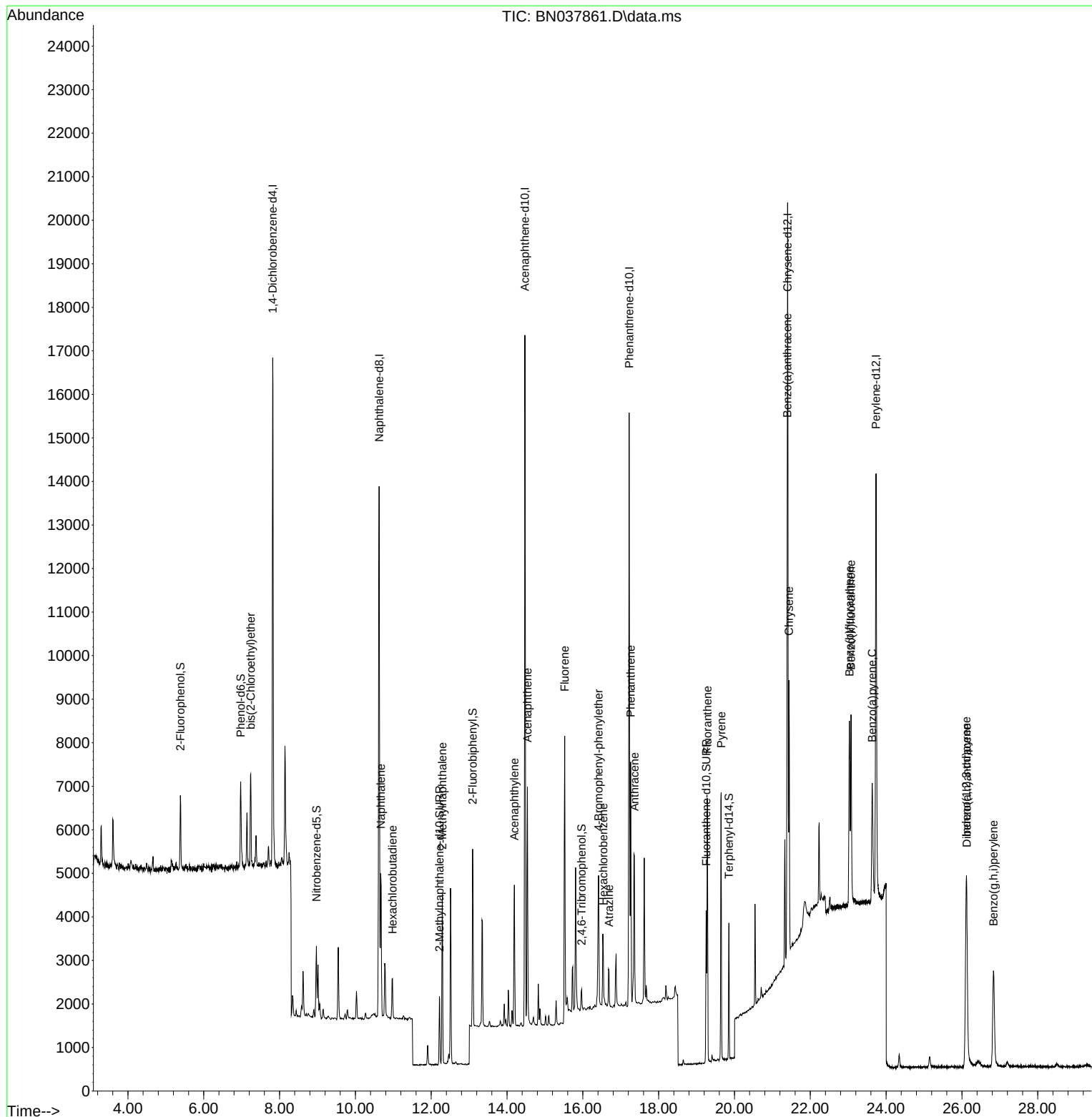
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng	0.00
29) Chrysene-d12	21.402	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

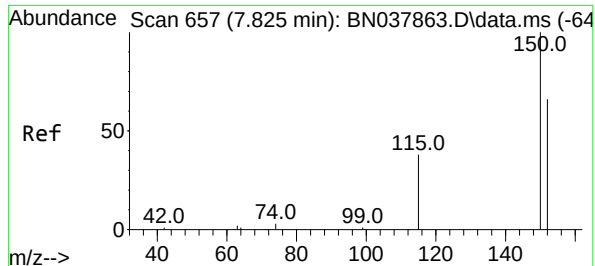
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

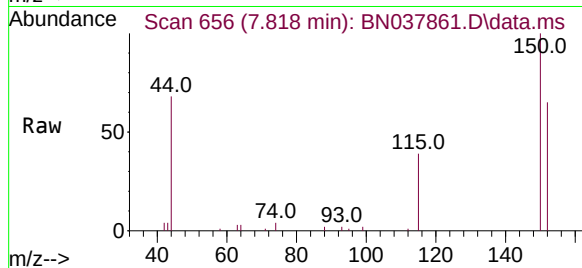
Quant Time: Sep 23 16:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



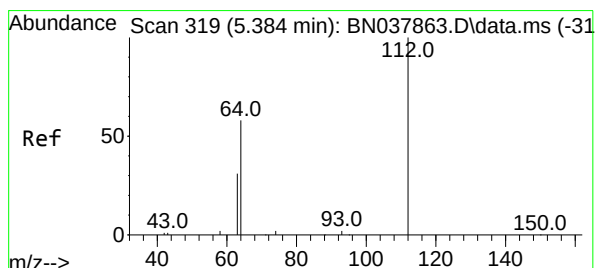
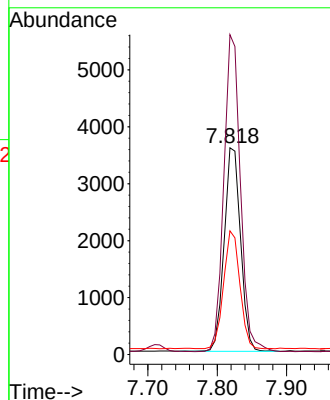
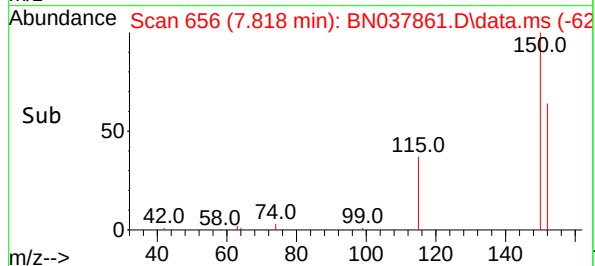


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

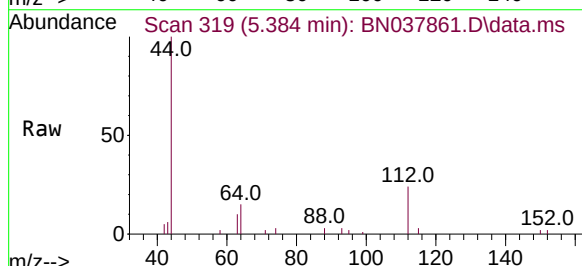
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



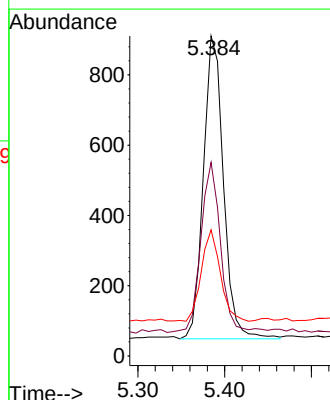
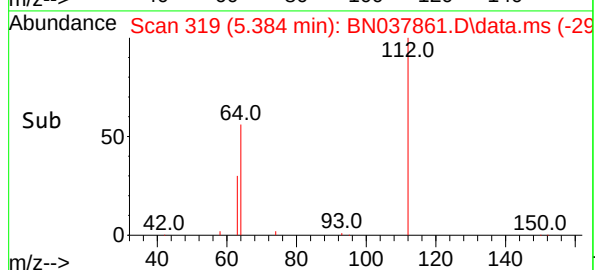
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 59.9 47.4 71.0

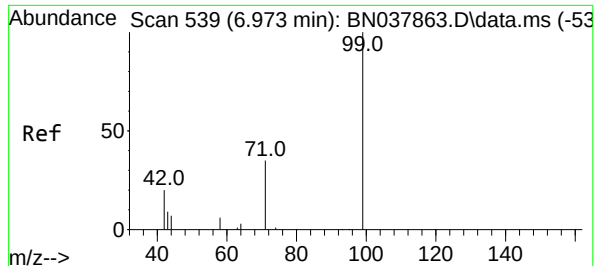


#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13



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

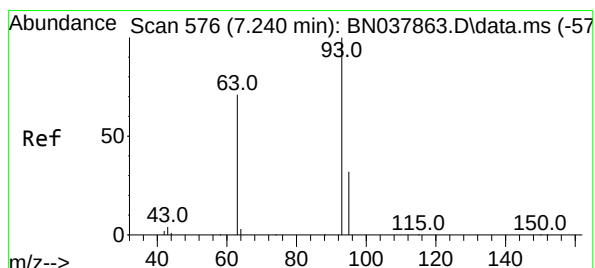
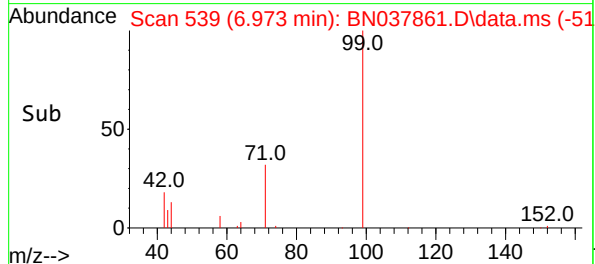
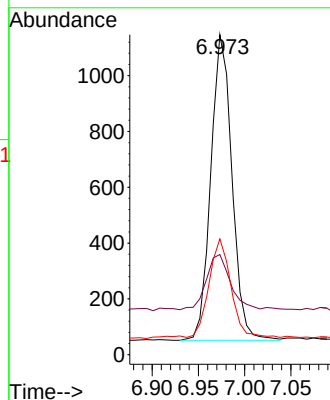
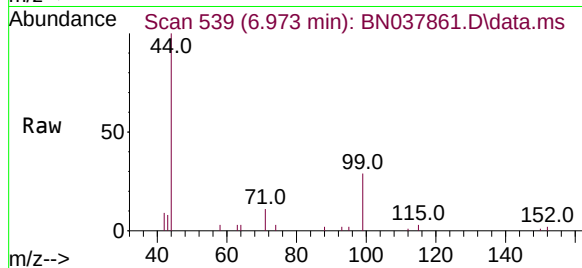




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

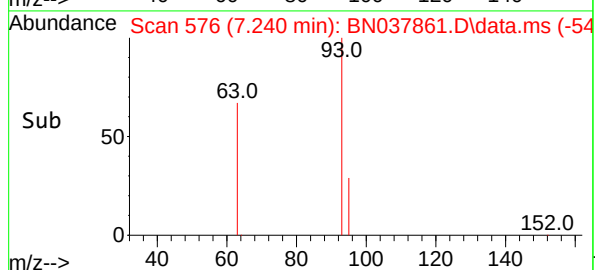
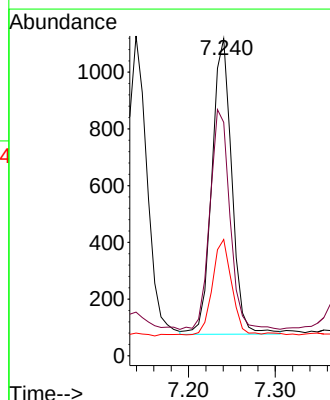
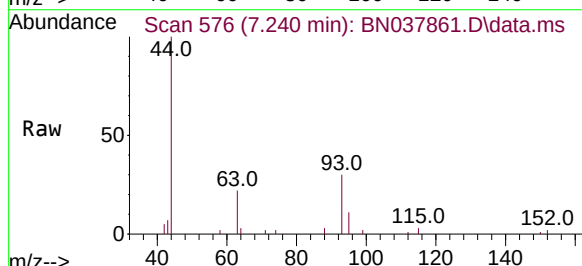
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

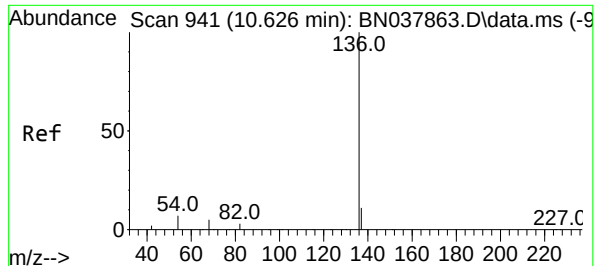
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#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

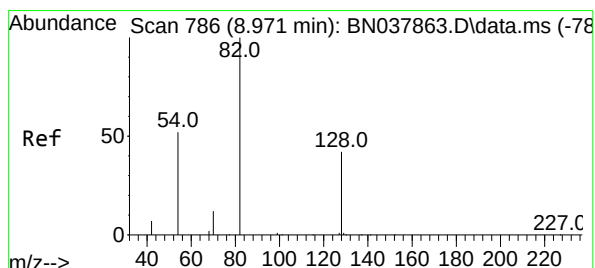
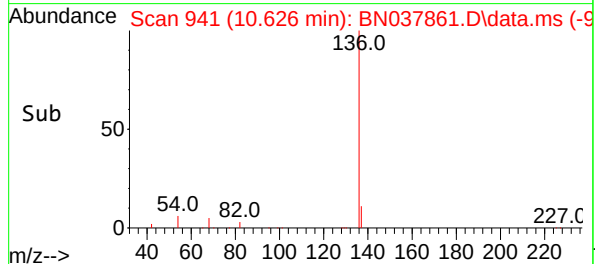
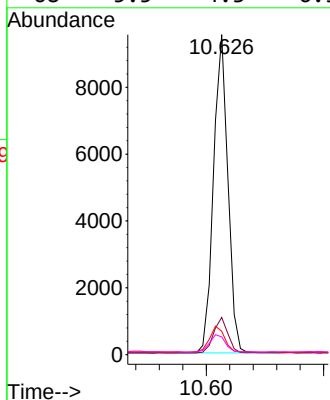
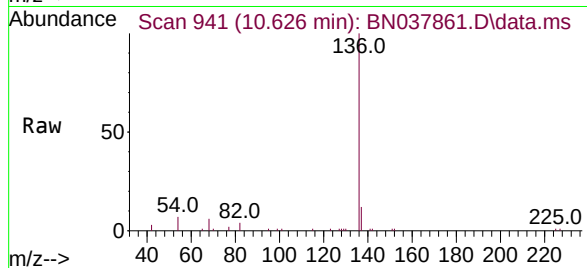




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

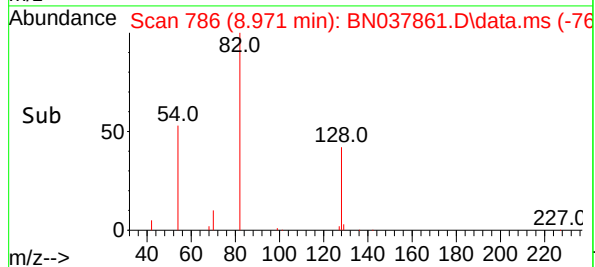
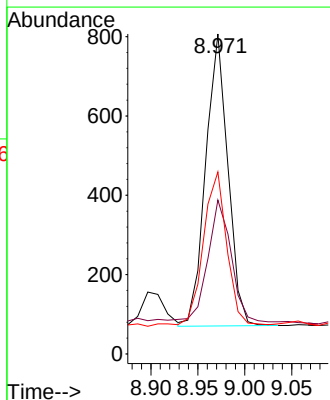
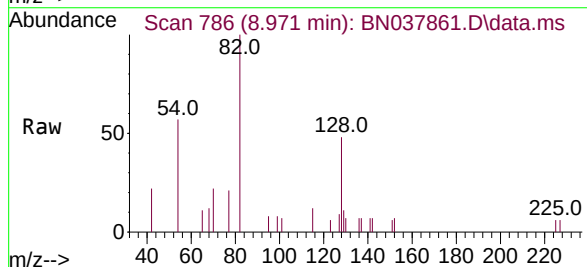
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

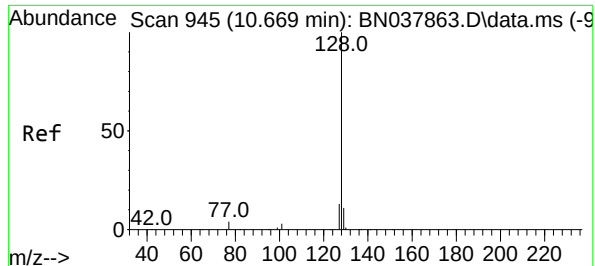
Tgt Ion:	136	Resp:	16223
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#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 :

SSTDICC0.1

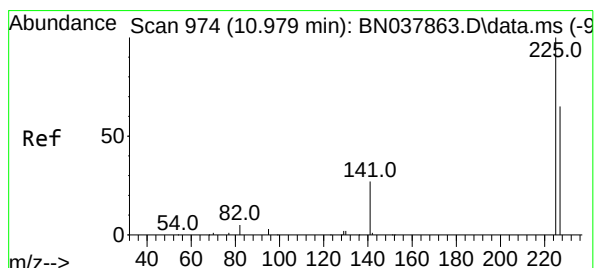
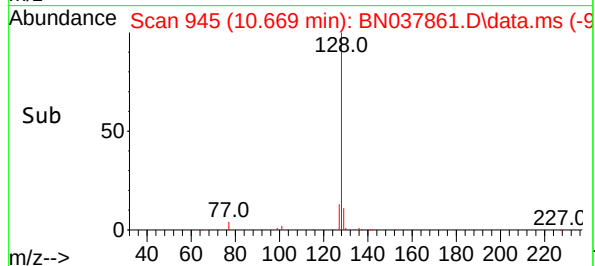
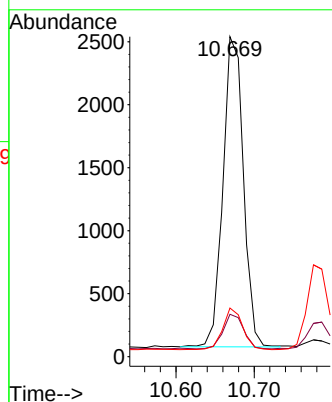
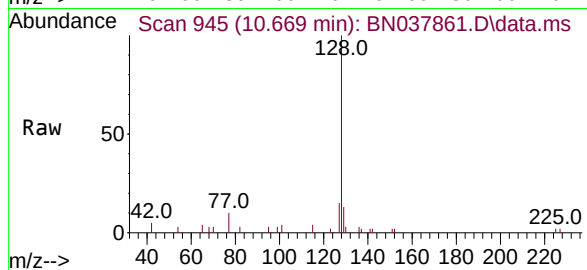
Tgt Ion:128 Resp: 4483

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

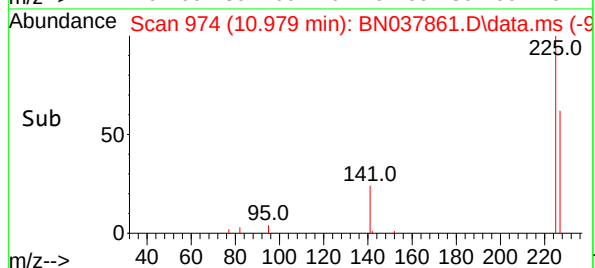
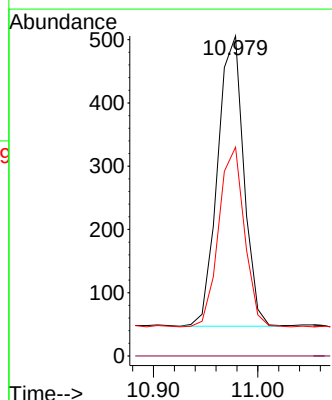
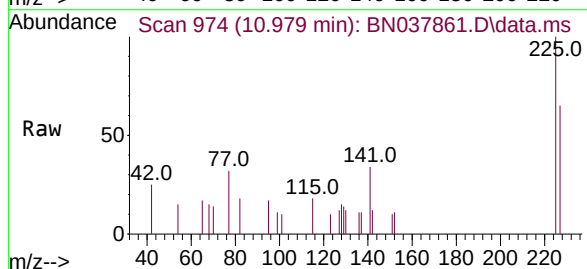
Tgt Ion:225 Resp: 802

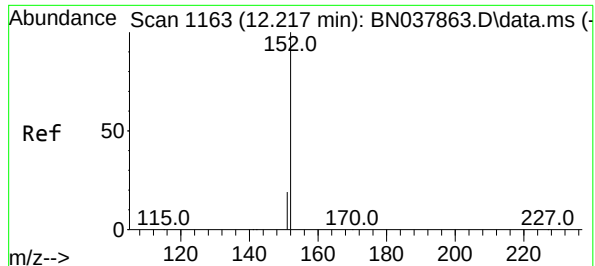
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 60.8 51.4 77.2

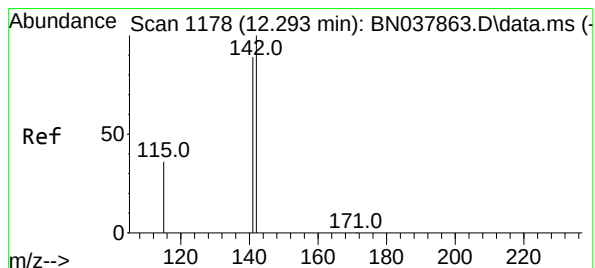
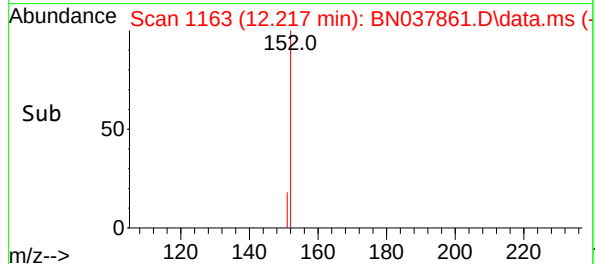
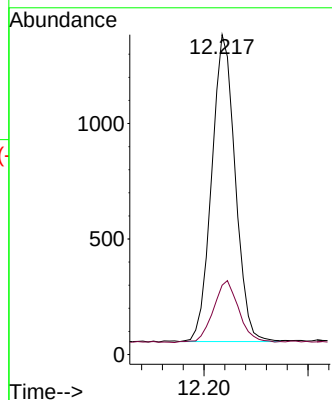
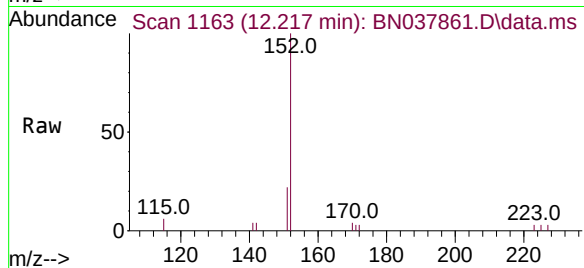




#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

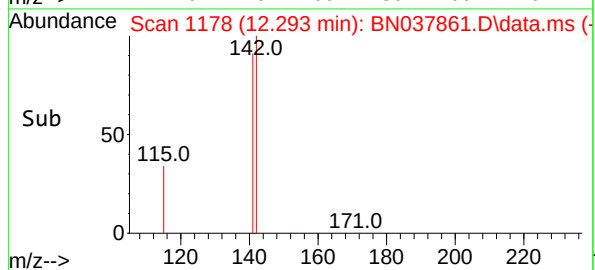
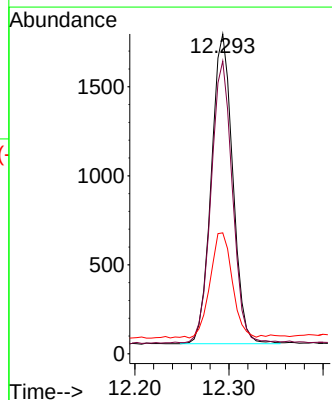
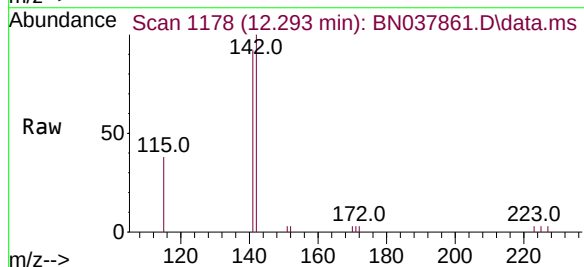
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

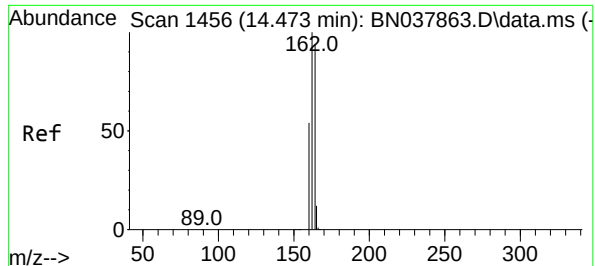
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#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

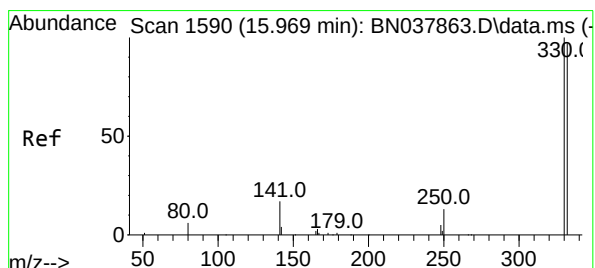
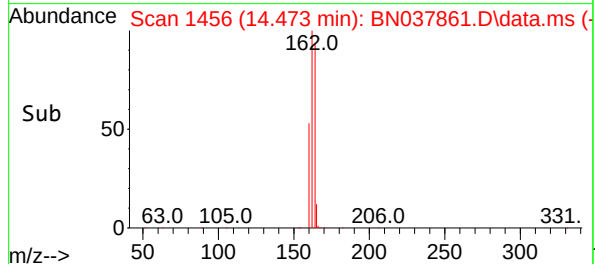
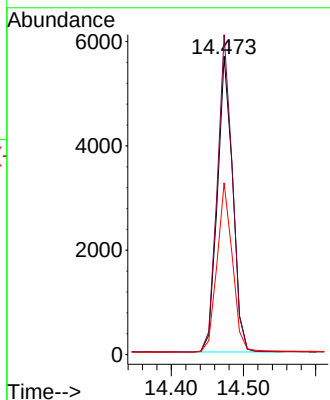
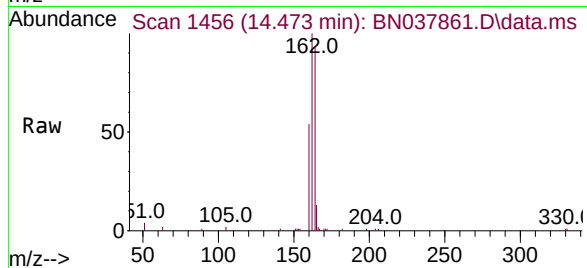




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

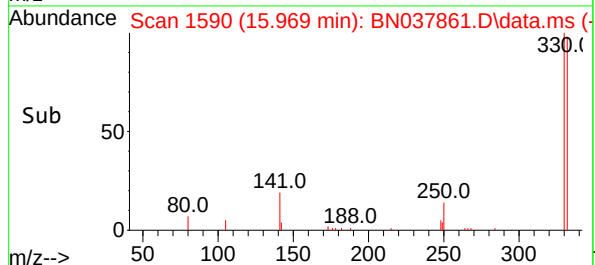
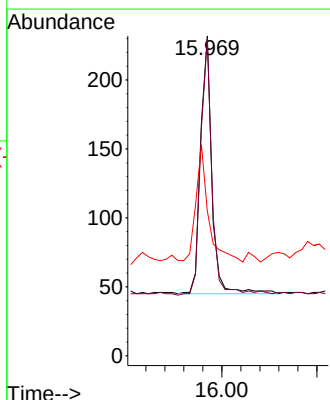
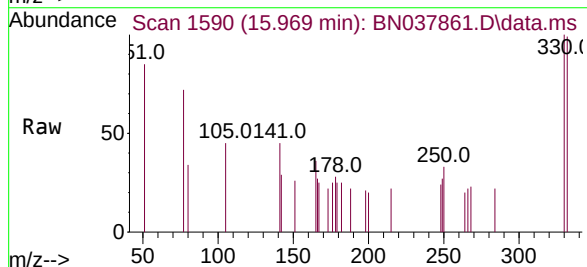
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

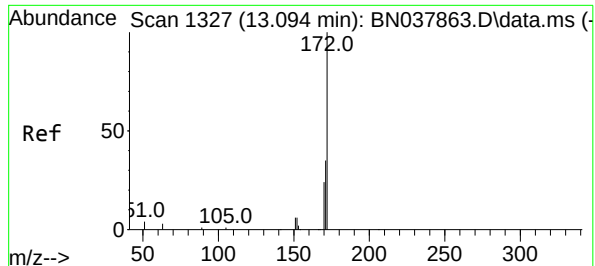
Tgt Ion:164 Resp: 8379
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 57.6 46.1 69.1



#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:330 Resp: 309
Ion Ratio Lower Upper
330 100
332 100.3 77.2 115.8
141 50.8 37.2 55.8

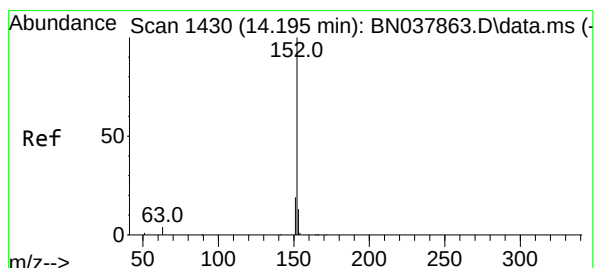
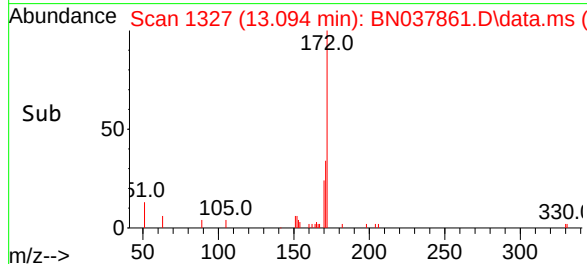
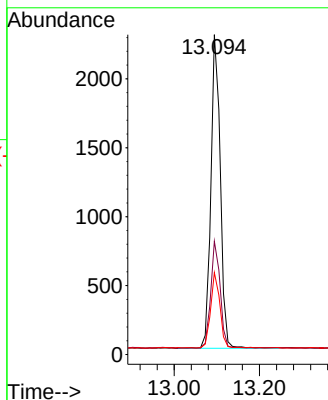
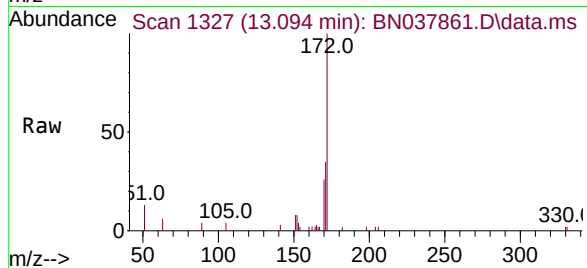




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

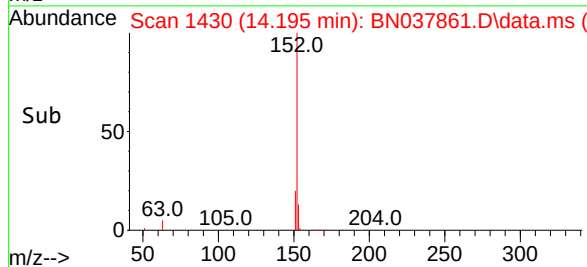
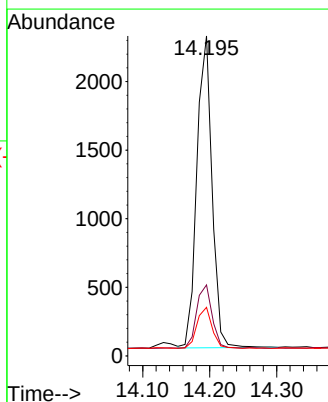
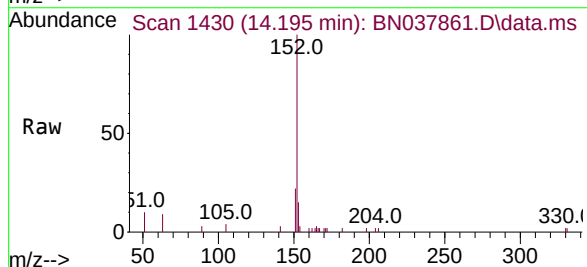
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

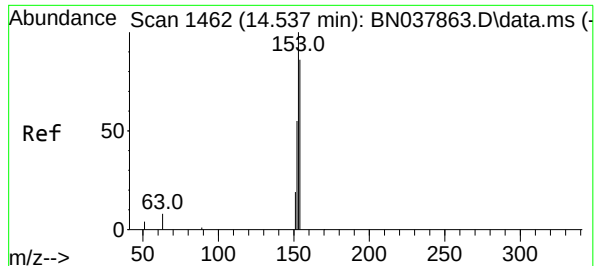
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	25.6	19.7	29.5



#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

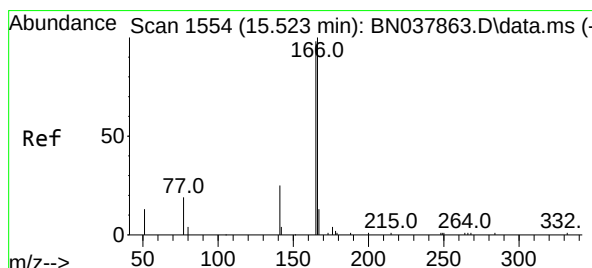
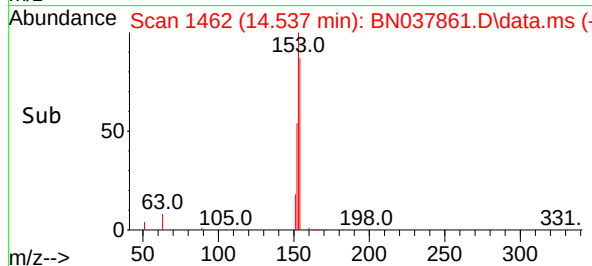
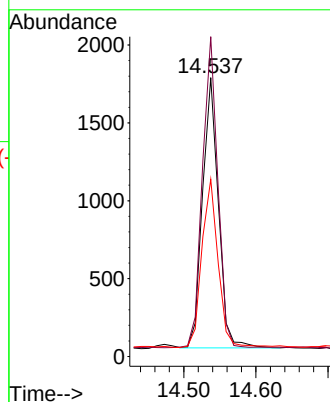
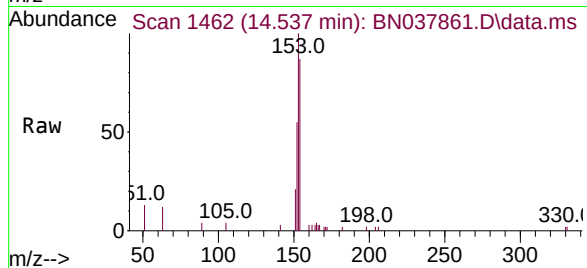
Tgt Ion:154 Resp: 2644

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

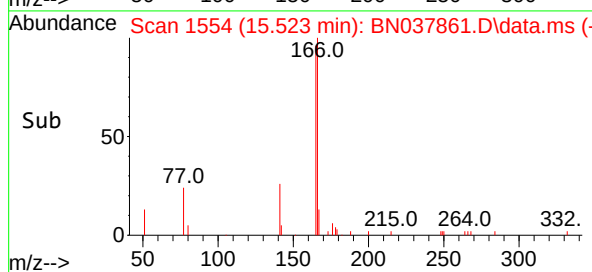
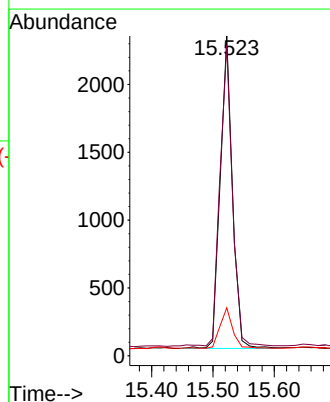
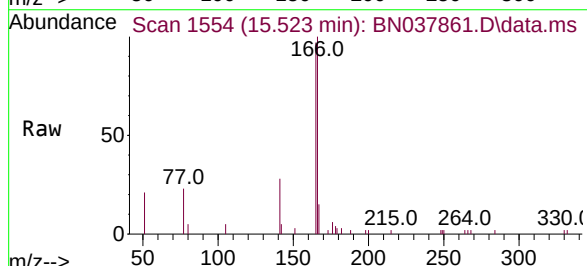
Tgt Ion:166 Resp: 3048

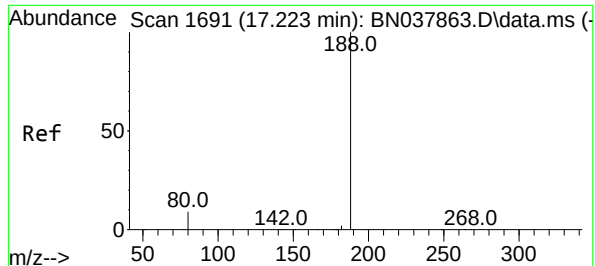
Ion Ratio Lower Upper

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 :

SSTDICC0.1

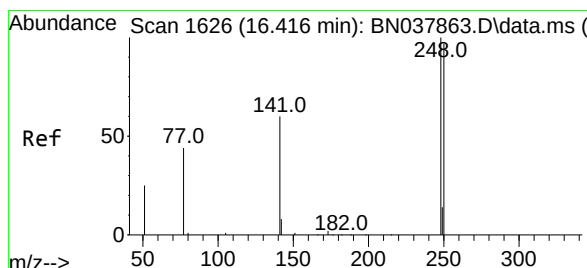
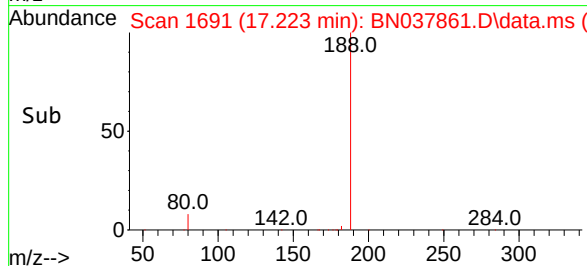
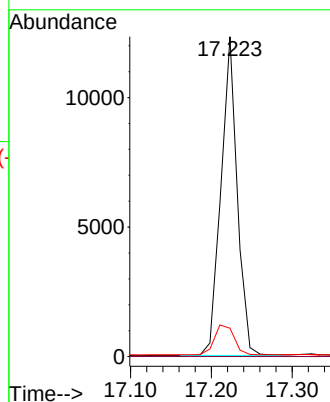
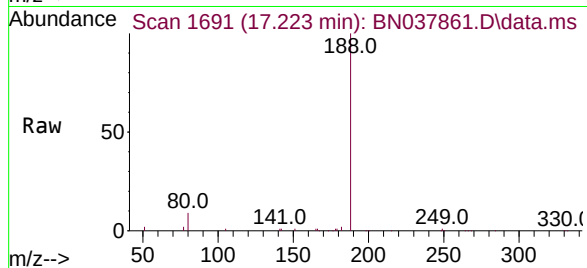
Tgt Ion:188 Resp: 17197

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

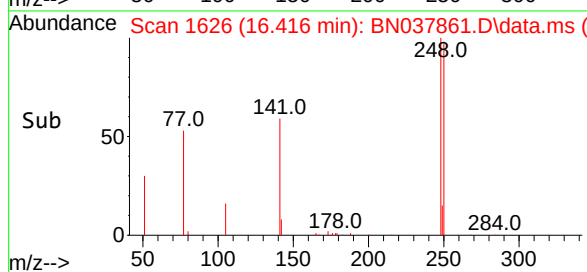
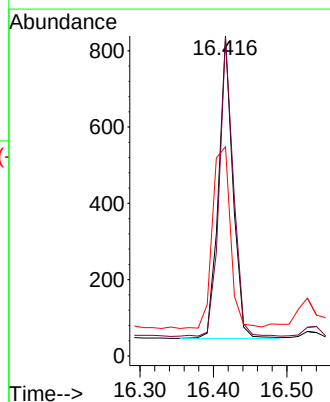
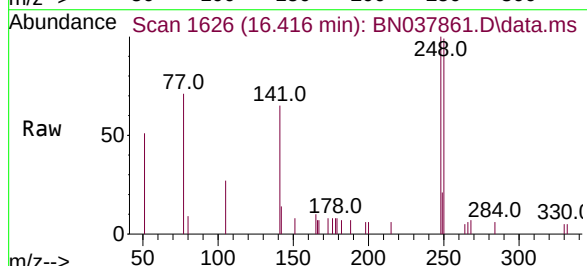
Tgt Ion:248 Resp: 1084

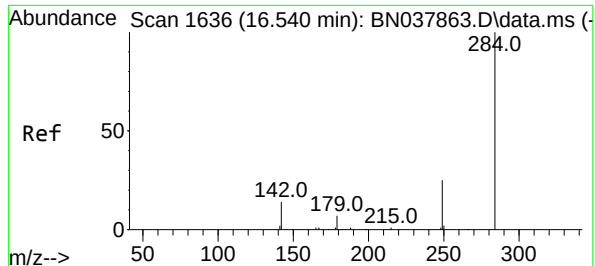
Ion Ratio Lower Upper

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

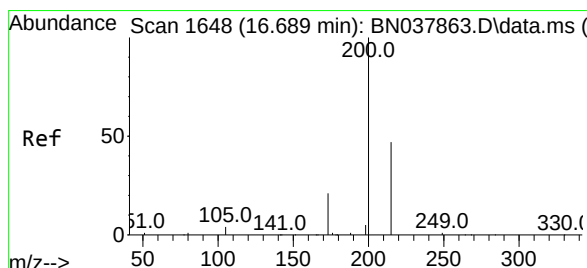
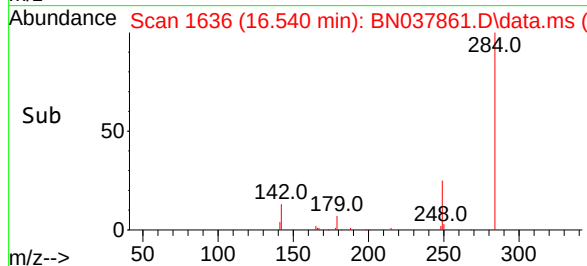
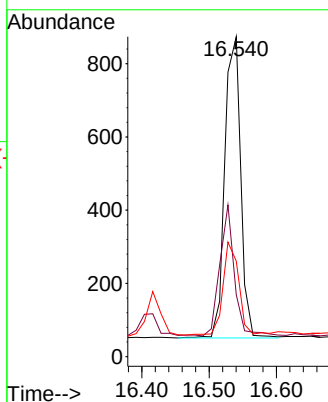
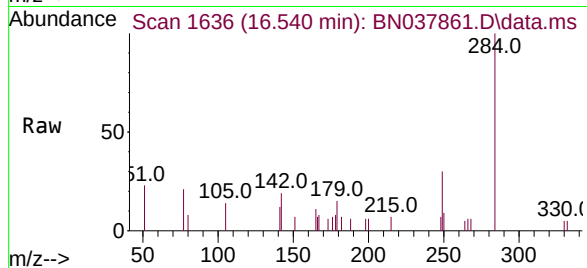
Tgt Ion:284 Resp: 1361

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

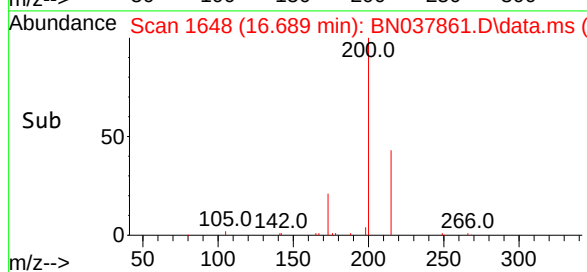
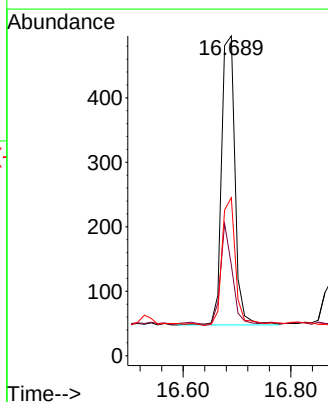
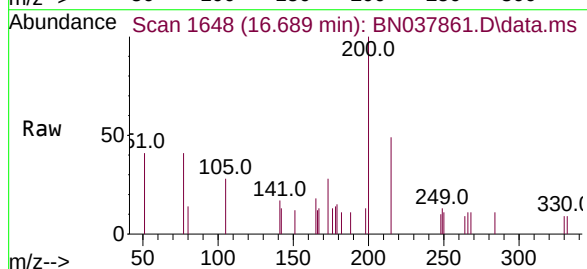
Tgt Ion:200 Resp: 772

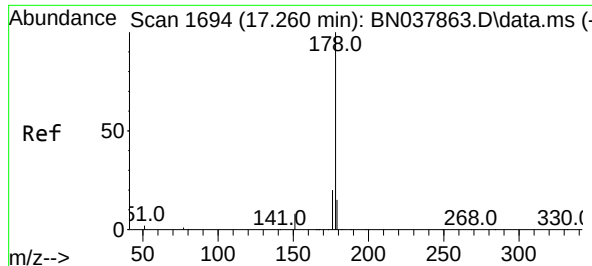
Ion Ratio Lower Upper

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

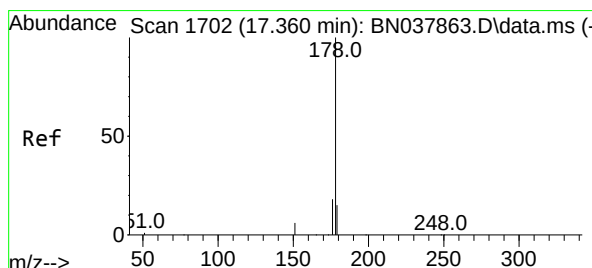
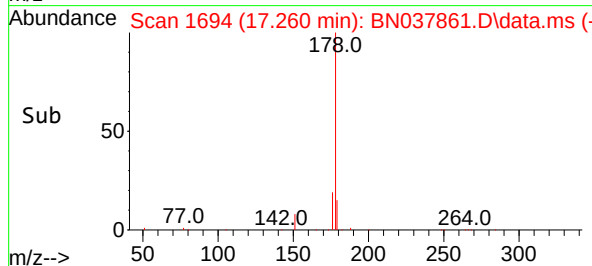
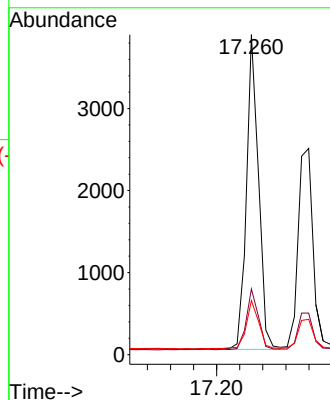
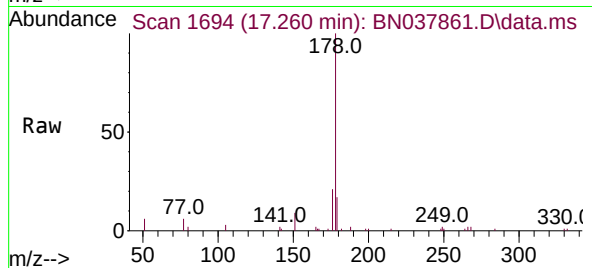
Tgt Ion:178 Resp: 5595

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

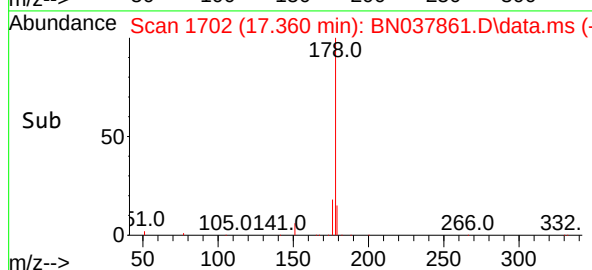
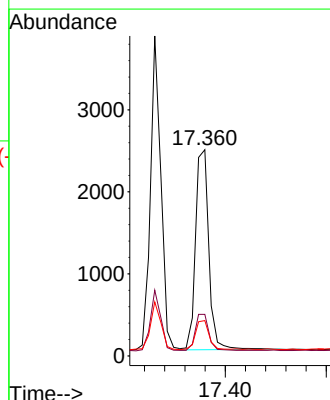
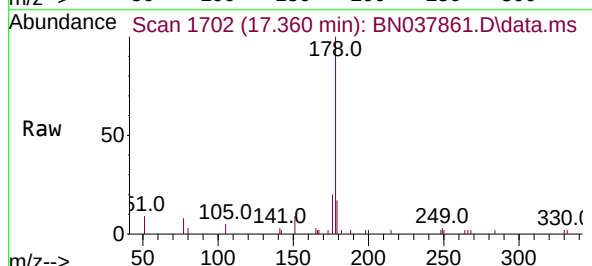
Tgt Ion:178 Resp: 4446

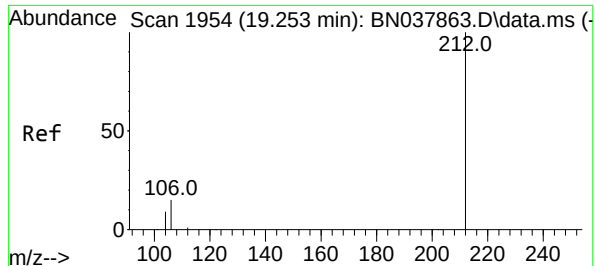
Ion Ratio Lower Upper

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

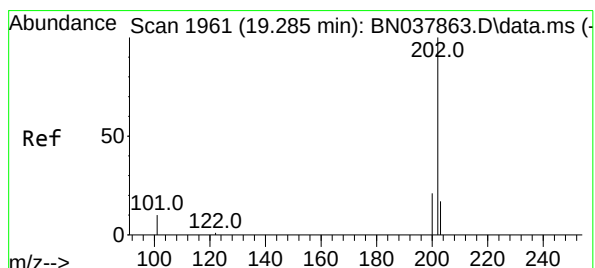
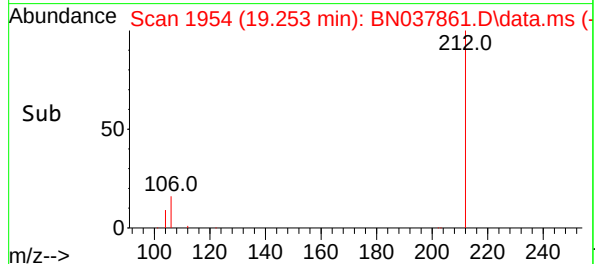
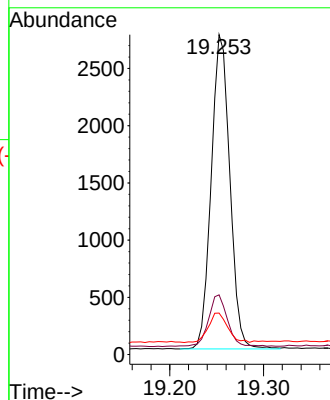
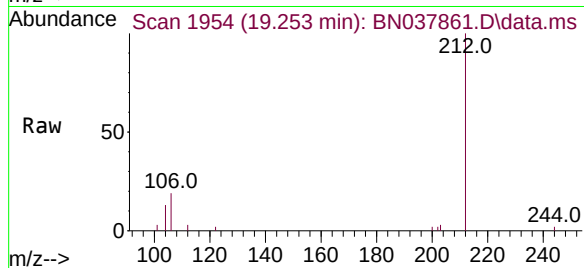
Tgt Ion:212 Resp: 3783

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

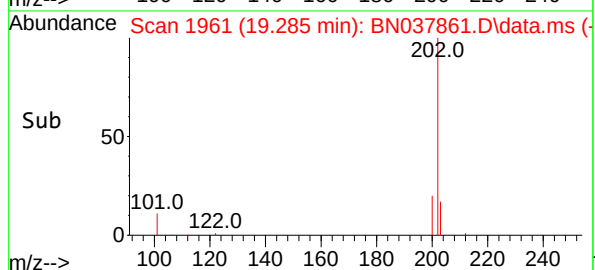
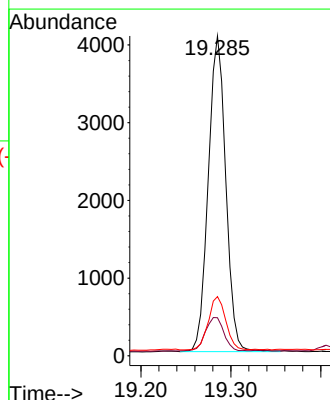
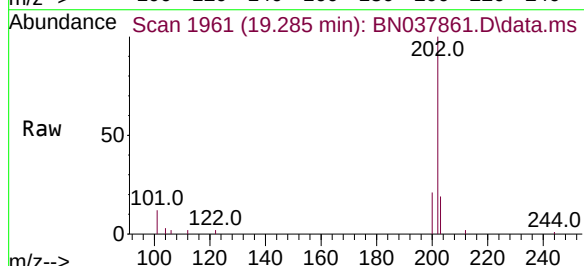
Tgt Ion:202 Resp: 5493

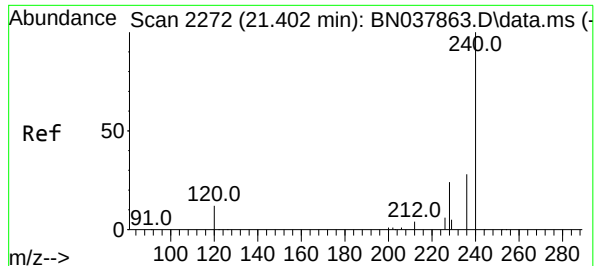
Ion Ratio Lower Upper

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

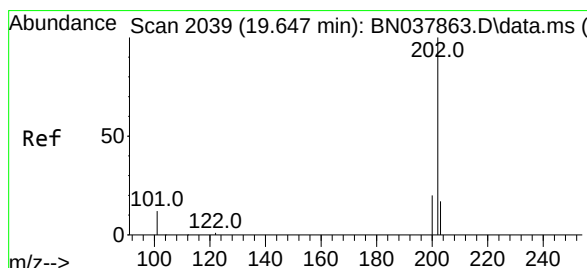
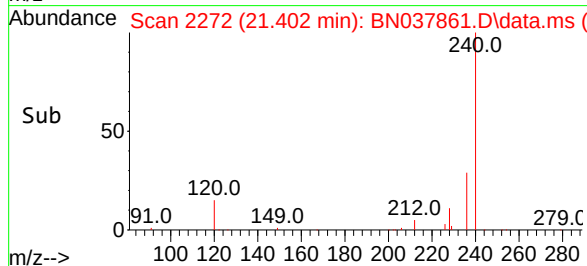
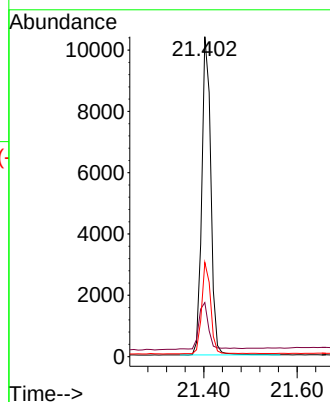
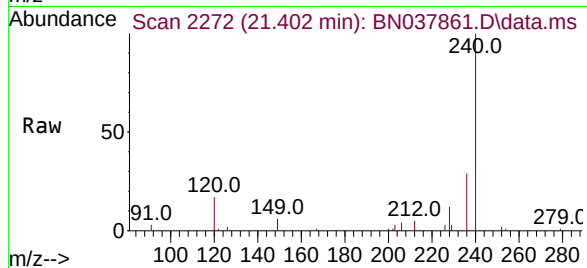
Tgt Ion:240 Resp: 13854

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

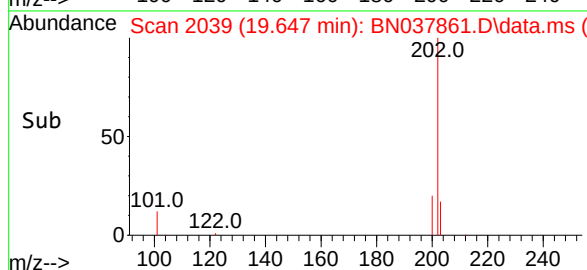
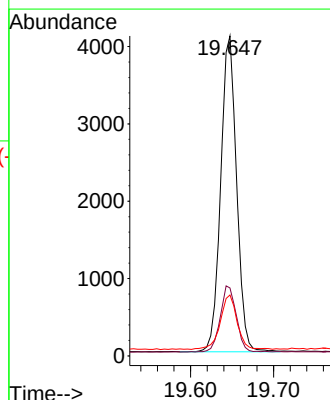
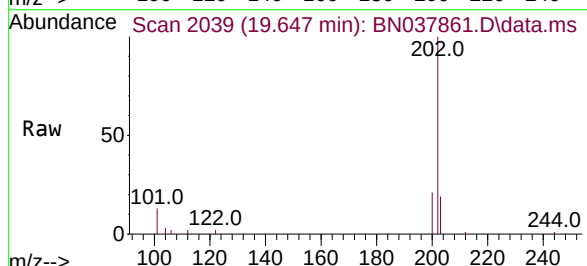
Tgt Ion:202 Resp: 5458

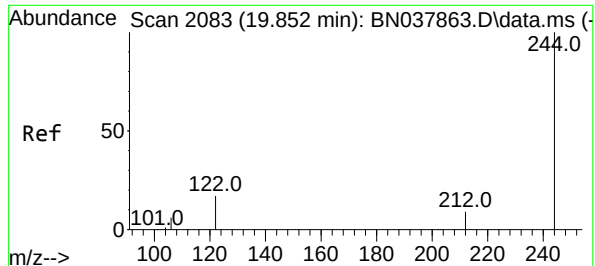
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

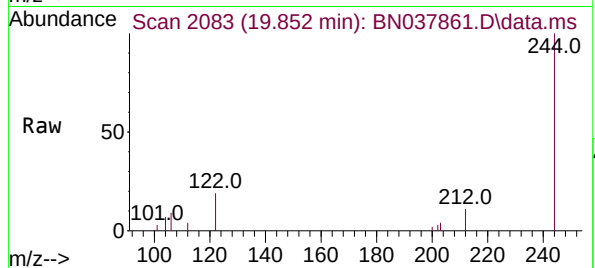
203 18.2 14.2 21.4



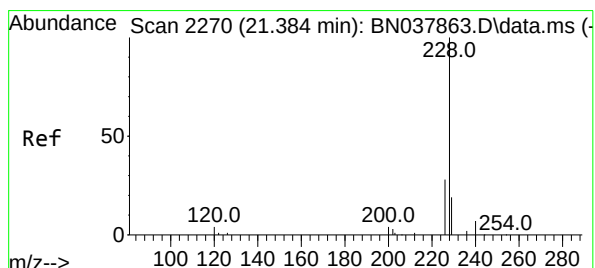
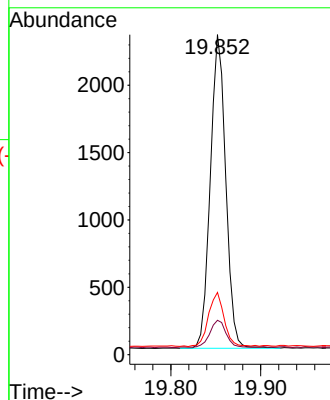


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

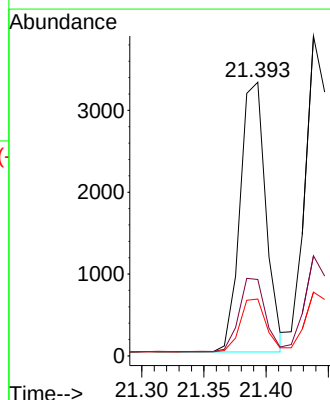
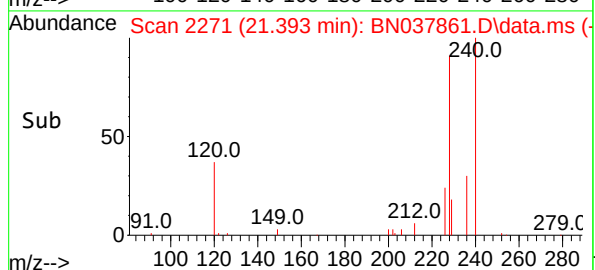
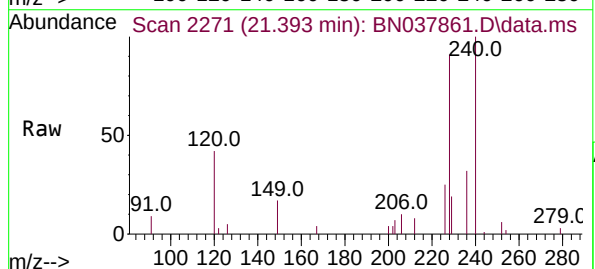


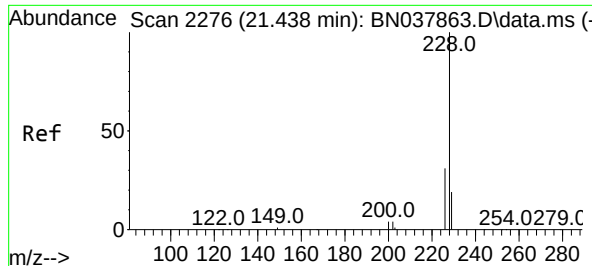
Tgt Ion:244 Resp: 2766
Ion Ratio Lower Upper
244 100
212 10.7 7.6 11.4
122 19.4 13.9 20.9



#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:228 Resp: 4766
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

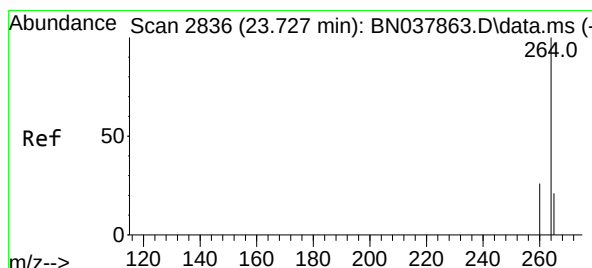
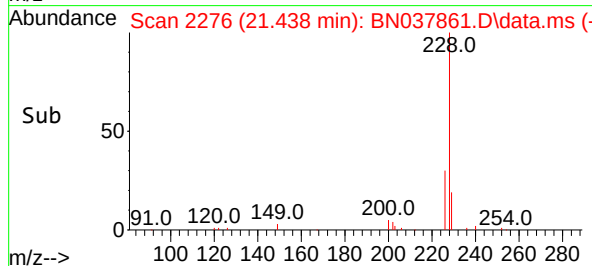
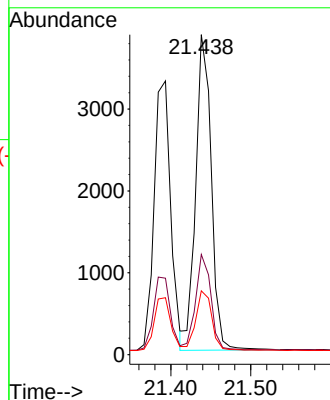
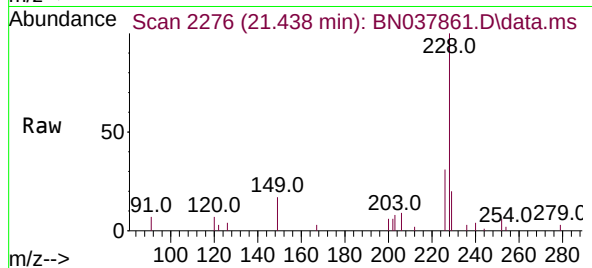
Tgt Ion:228 Resp: 5223

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

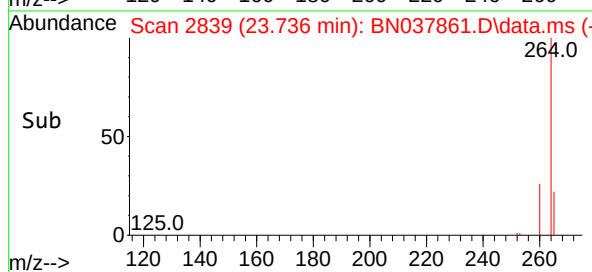
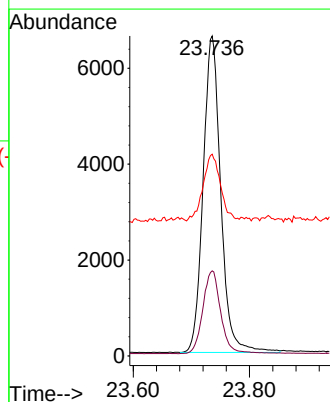
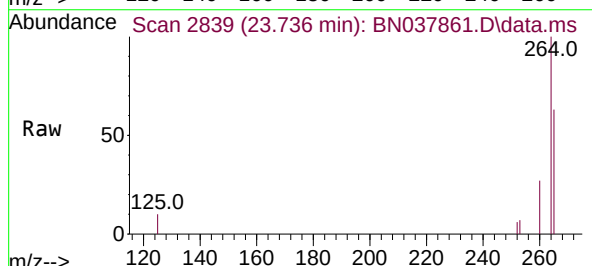
Tgt Ion:264 Resp: 13928

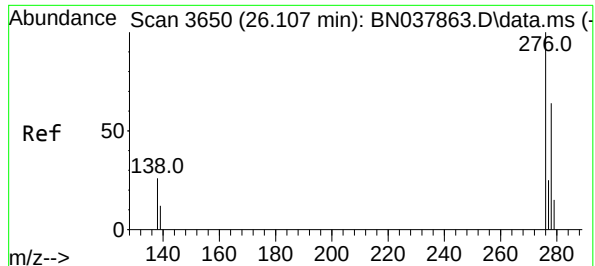
Ion Ratio Lower Upper

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 :

SSTDIC0.1

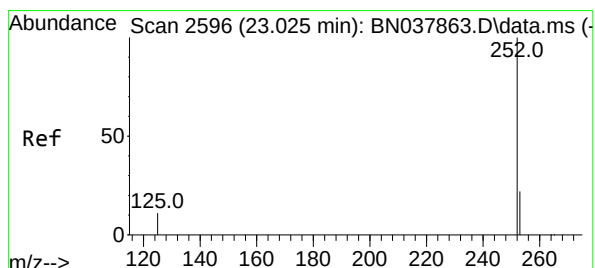
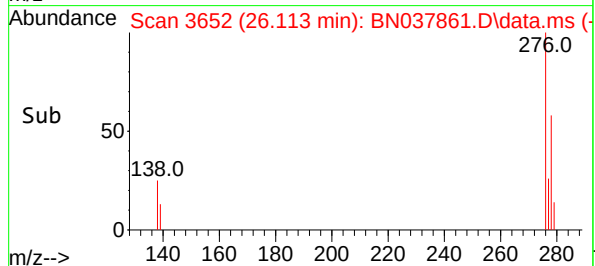
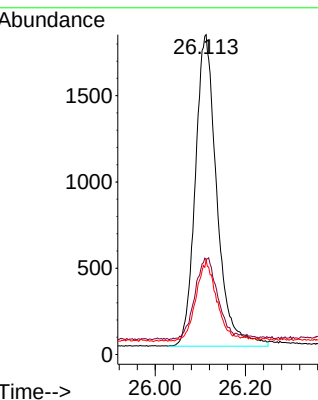
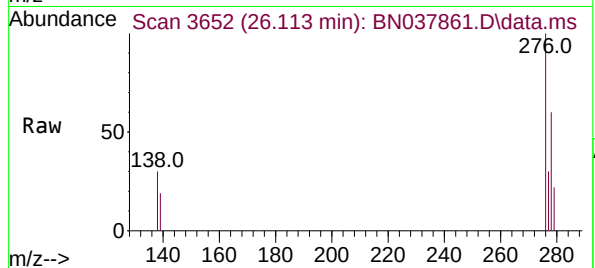
Tgt Ion:276 Resp: 5972

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

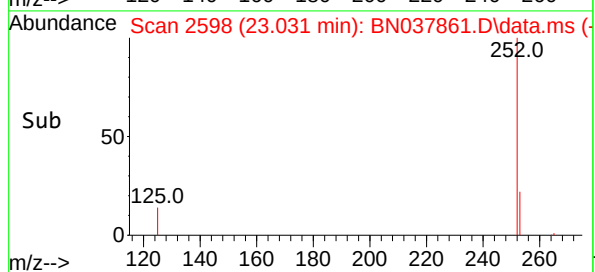
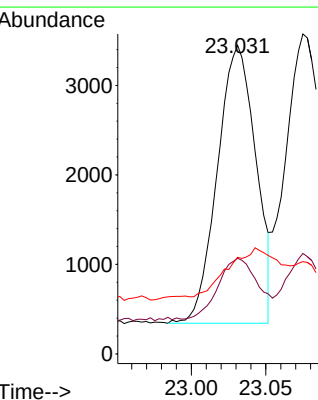
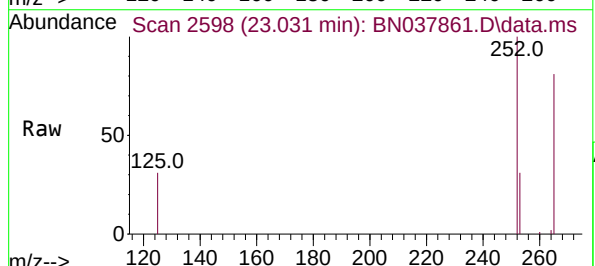
Tgt Ion:252 Resp: 5567

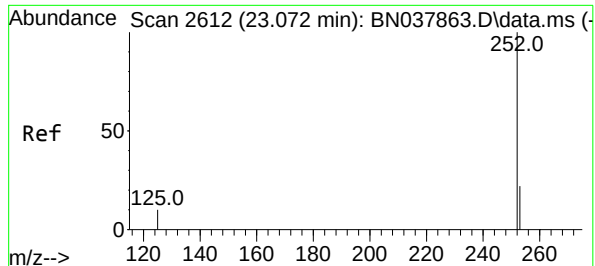
Ion Ratio Lower Upper

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

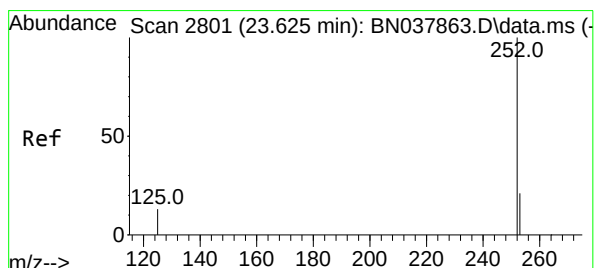
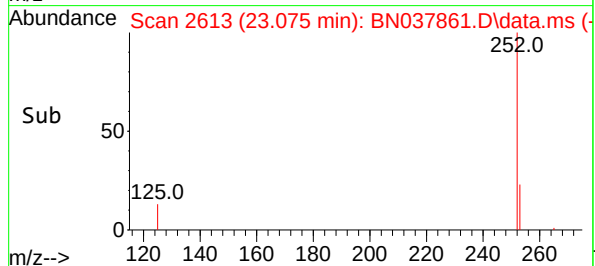
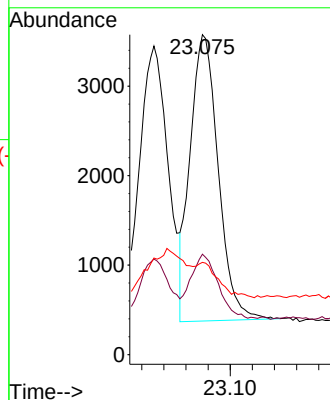
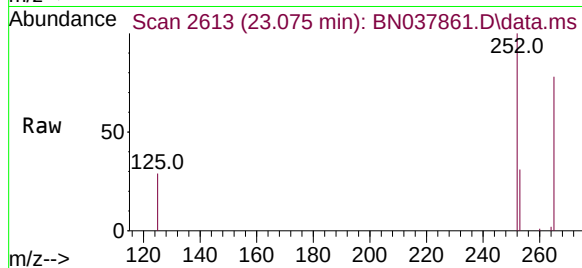
Tgt Ion:252 Resp: 5642

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

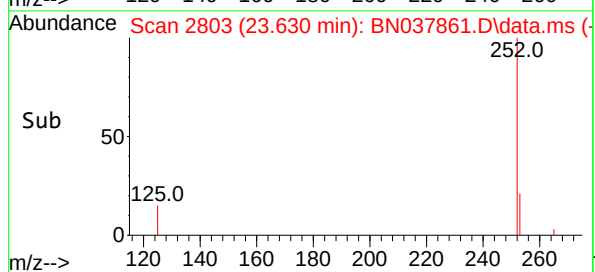
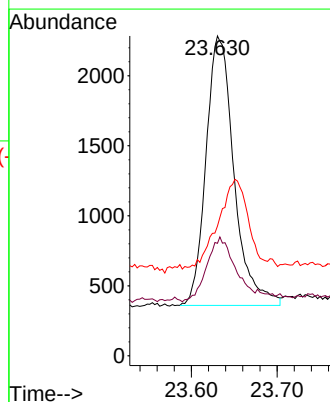
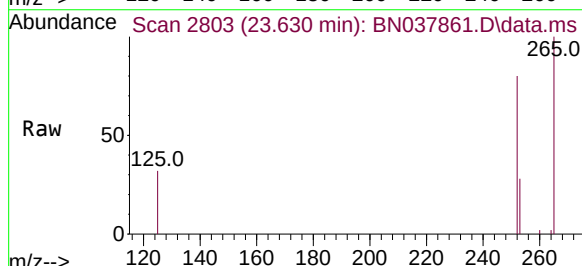
Tgt Ion:252 Resp: 4368

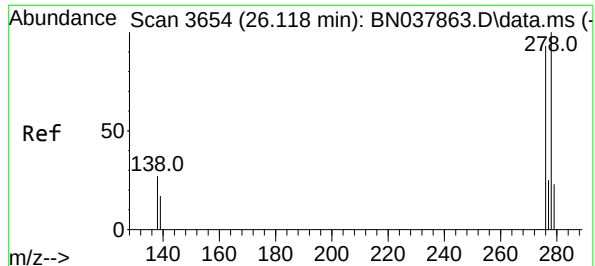
Ion Ratio Lower Upper

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

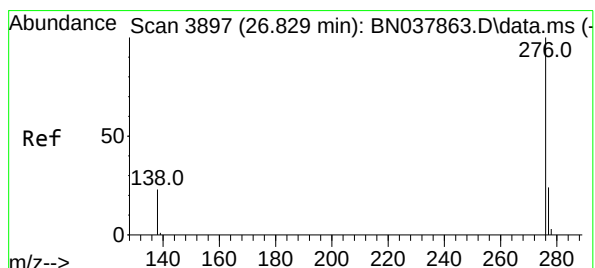
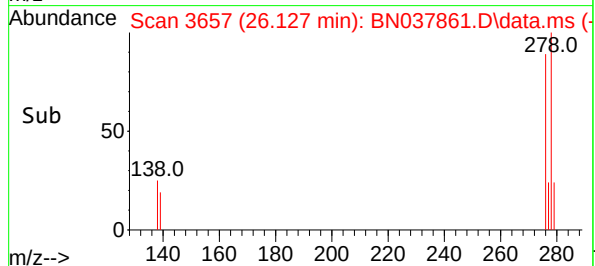
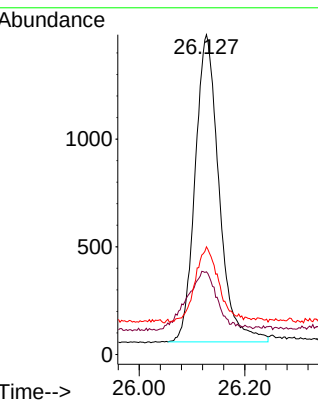
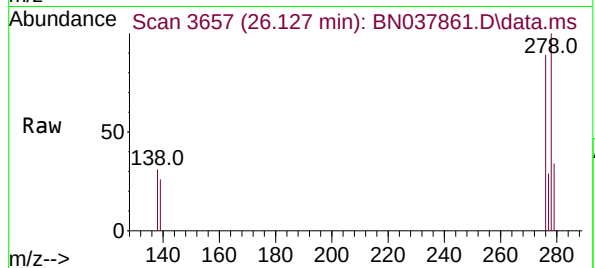
Tgt Ion:278 Resp: 4476

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

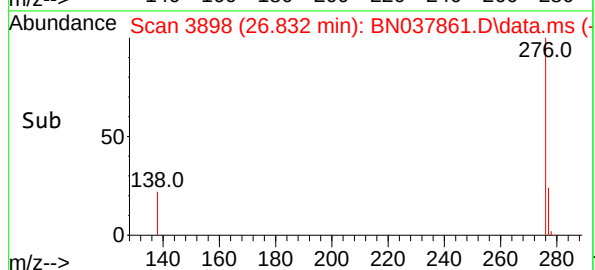
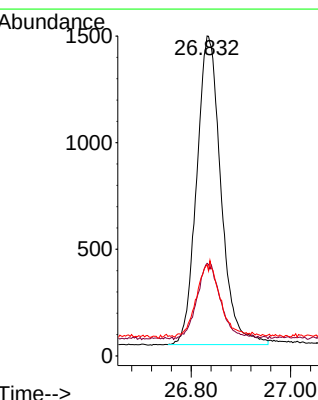
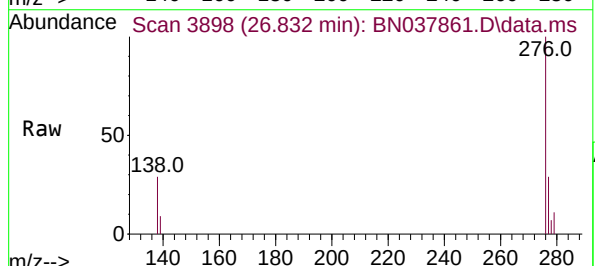
Tgt Ion:276 Resp: 4900

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

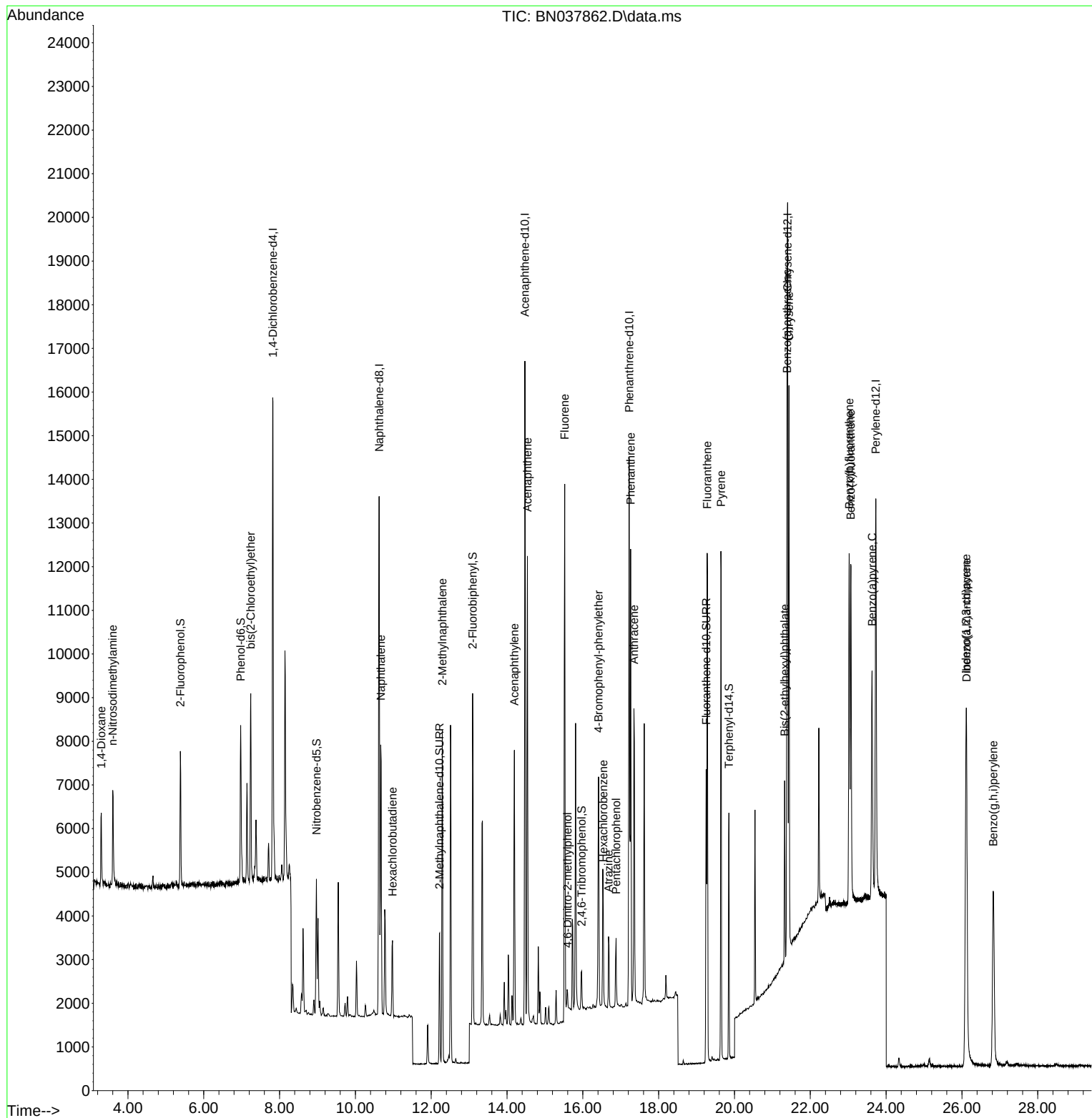
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng	0.00
29) Chrysene-d12	21.402	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

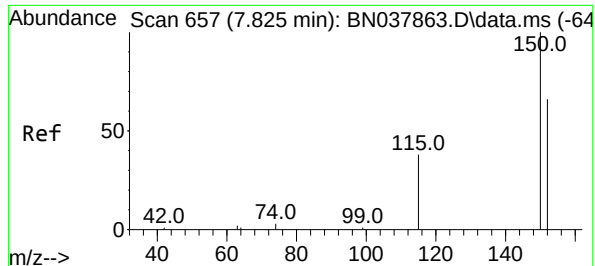
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

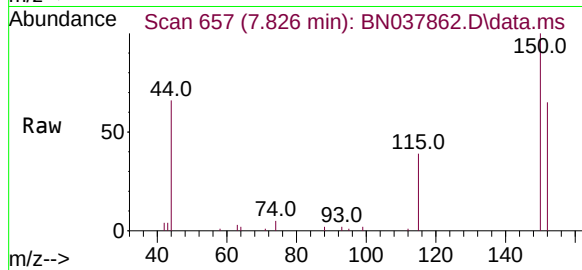
Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



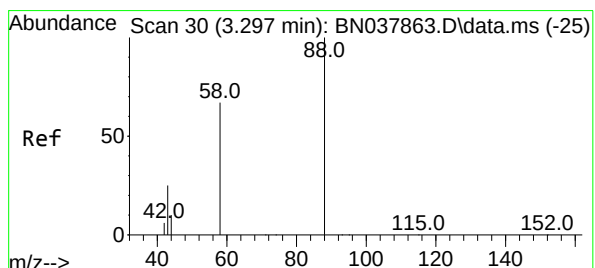
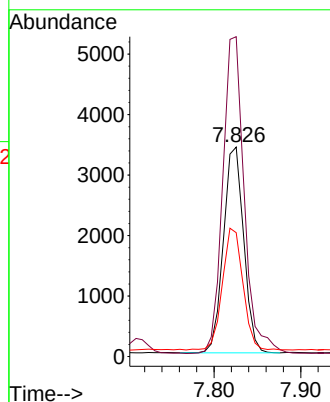
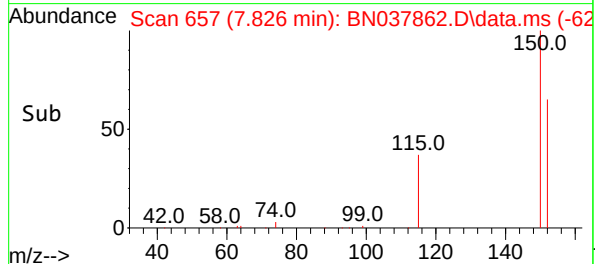


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

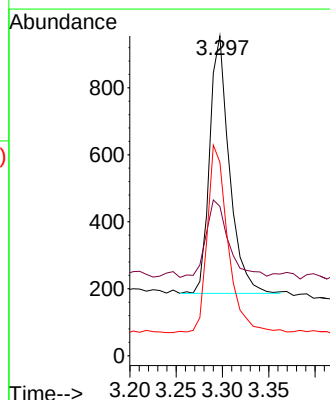
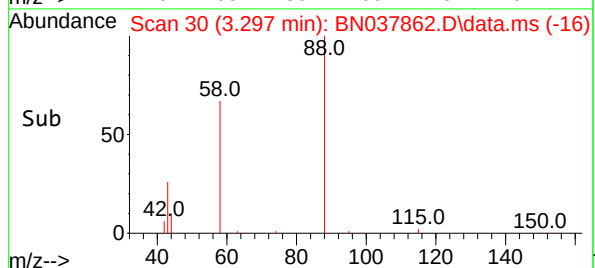
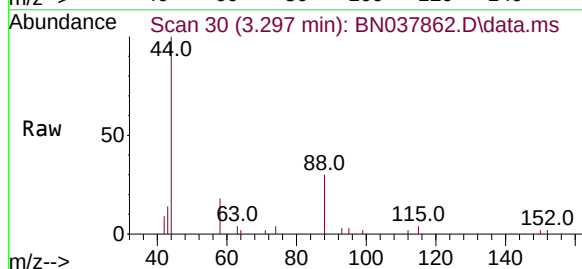


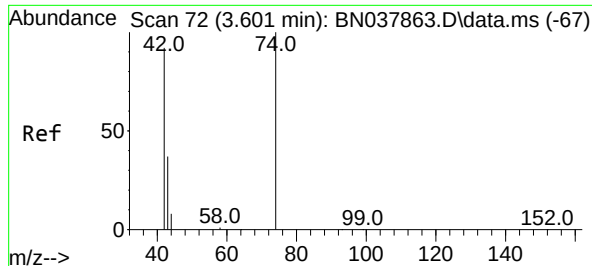
Tgt Ion:152 Resp: 5544
Ion Ratio Lower Upper
152 100
150 152.7 121.0 181.4
115 59.1 47.4 71.0



#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

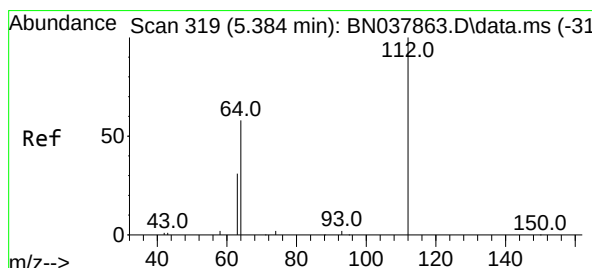
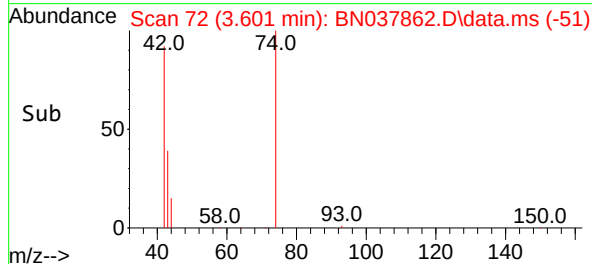
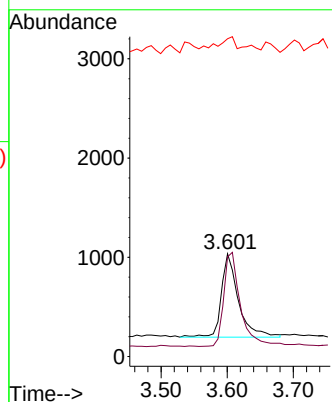
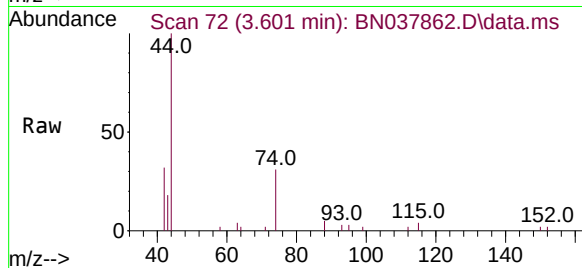




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

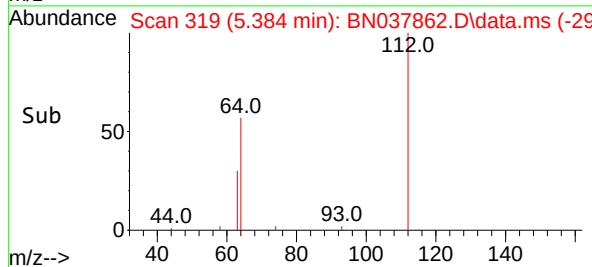
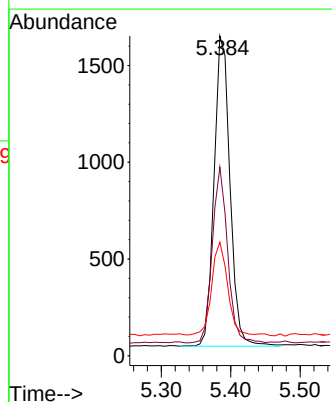
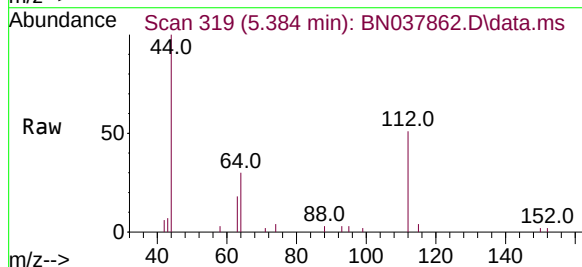
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

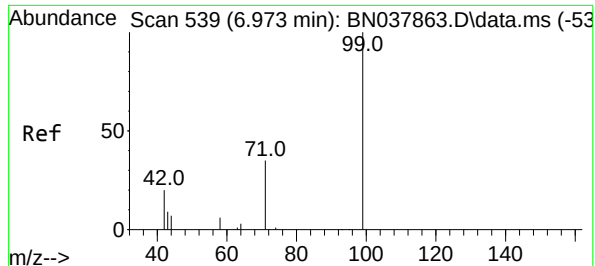
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 112.1 93.4 140.0
44 20.9 22.2 33.4#



#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

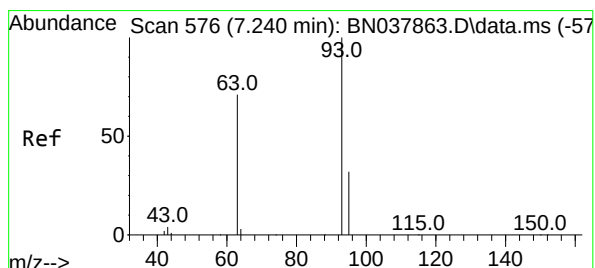
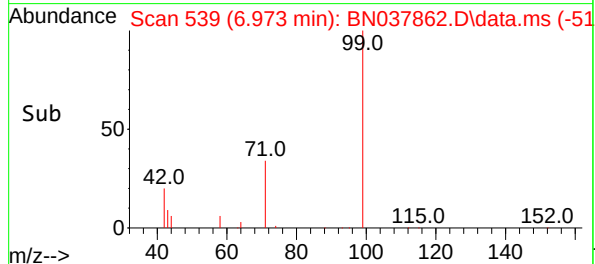
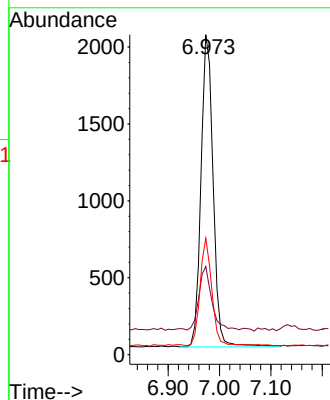
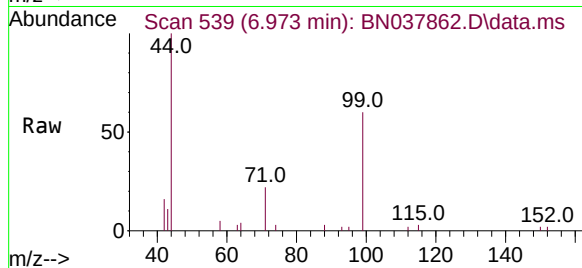




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

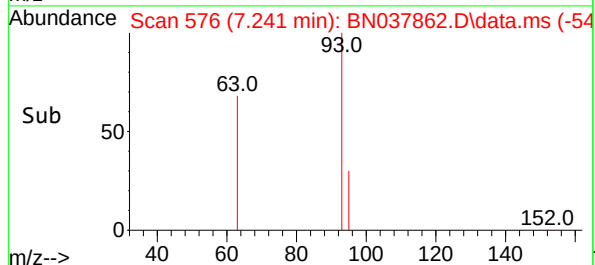
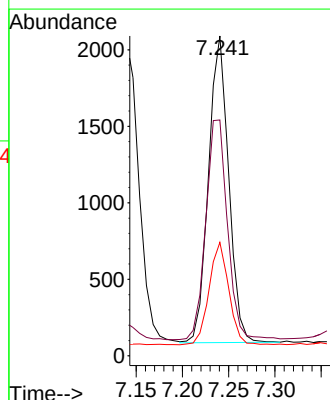
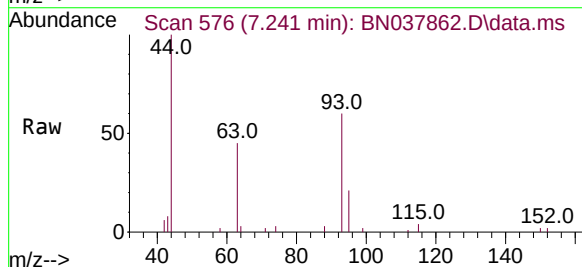
Instrument :
BNA_N
ClientSampleId :
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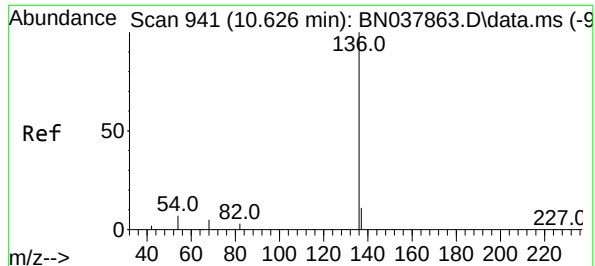
Tgt Ion:	99	Resp:	3326
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9



#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

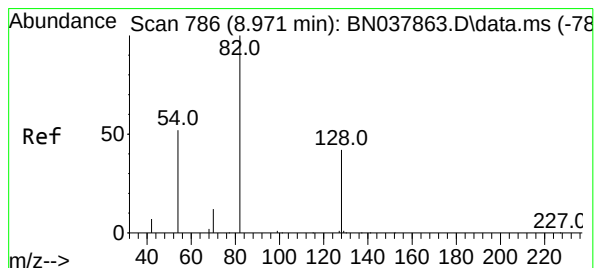
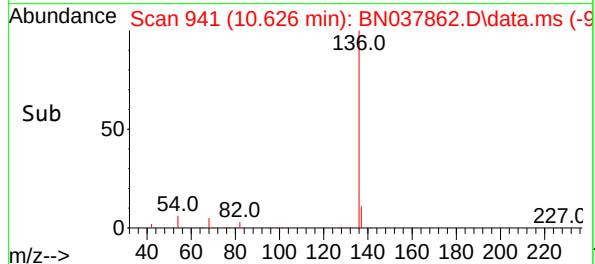
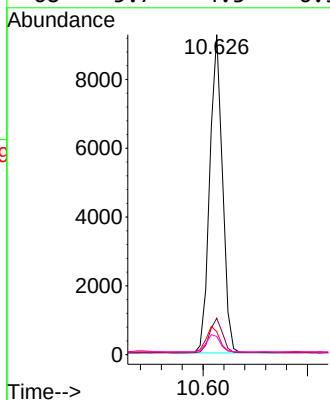
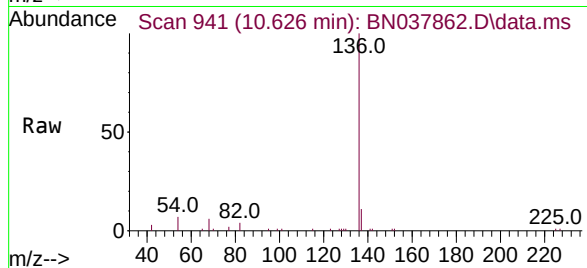




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

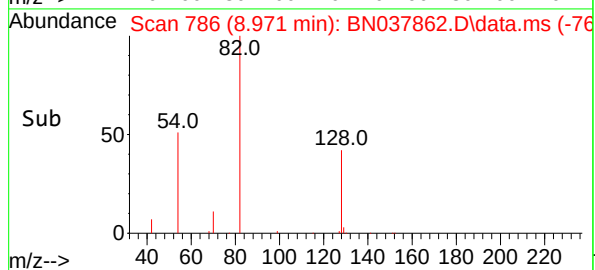
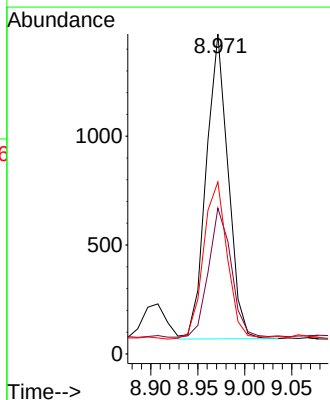
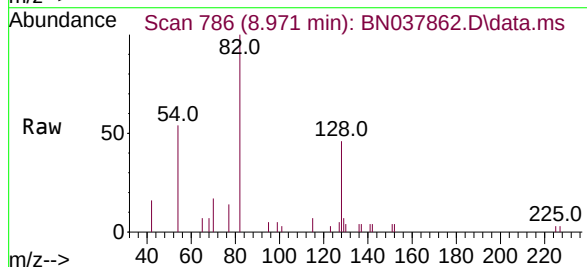
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

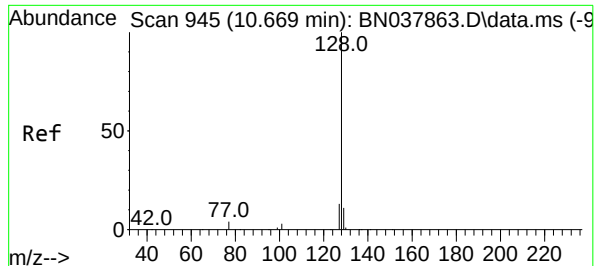
Tgt Ion:	136	Resp:	15739
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5



#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

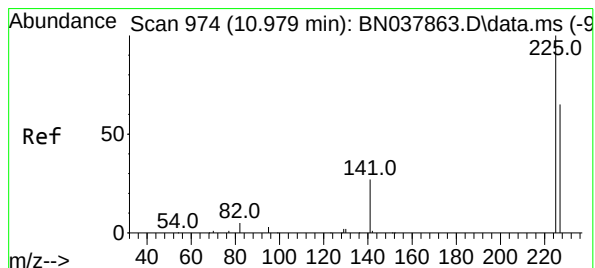
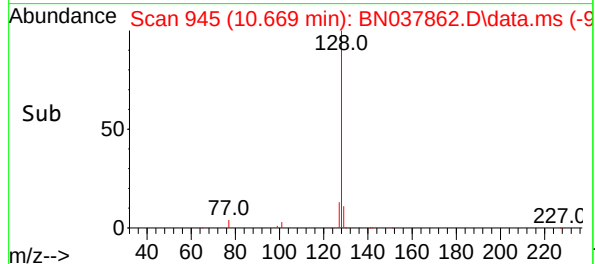
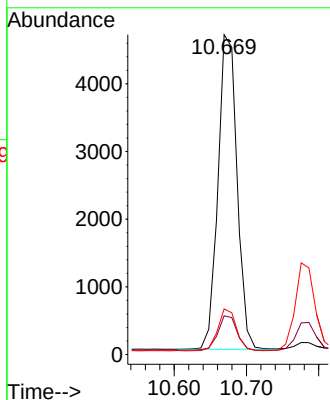
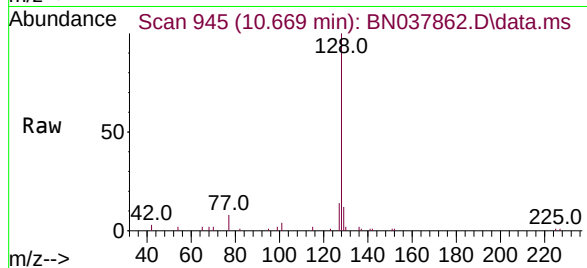




#9
Naphthalene
Concen: 0.198 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

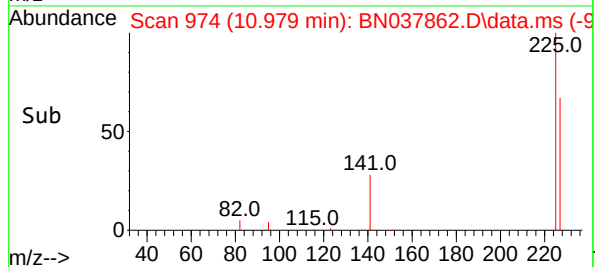
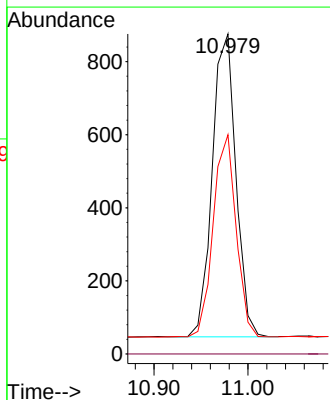
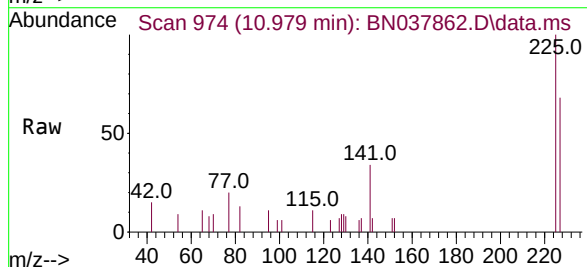
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ClientSampleId :
SSTDICC0.2

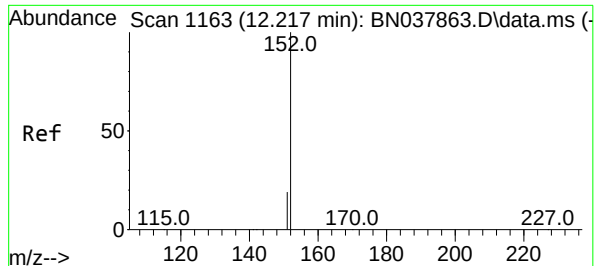
Tgt Ion	128	129	127
Resp:	8573		
Ion Ratio	100	12.1	14.3
Lower		9.2	11.0
Upper		13.8	16.6



#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	225	223	227
Resp:	1450		
Ion Ratio	100	0.0	65.0
Lower		0.0	51.4
Upper		0.0	77.2

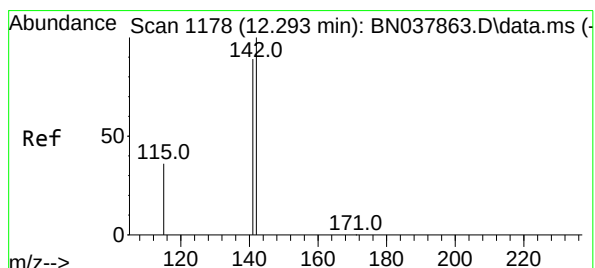
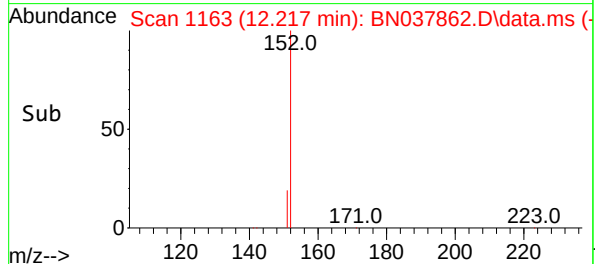
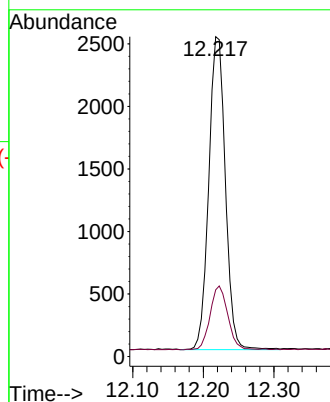
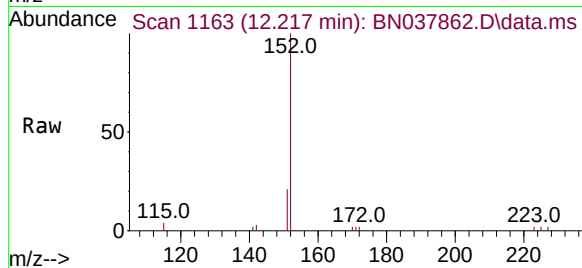




#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

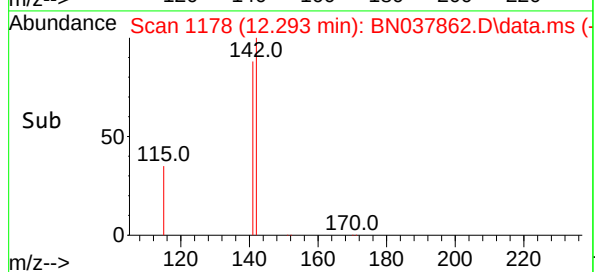
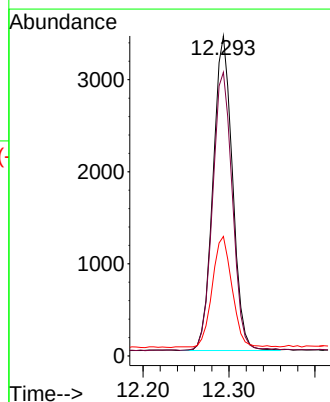
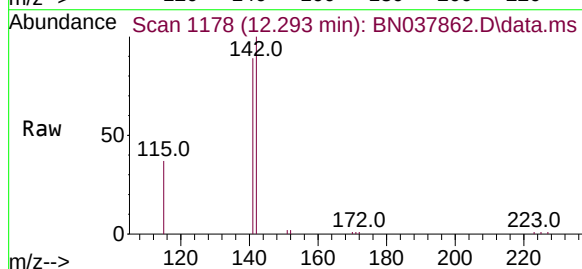
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

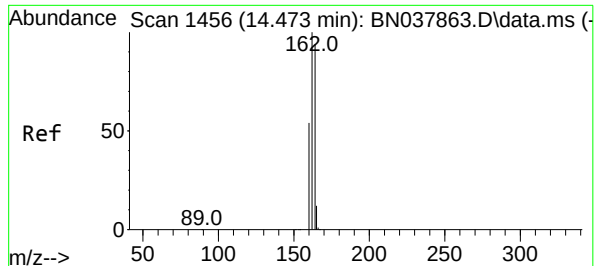
Tgt Ion:152 Resp: 4078
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#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

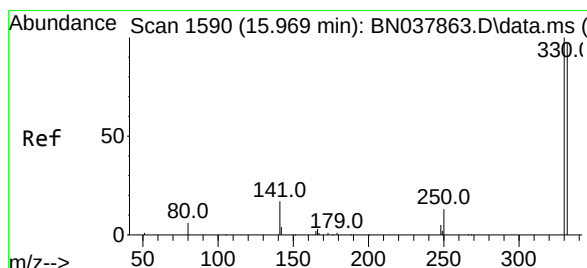
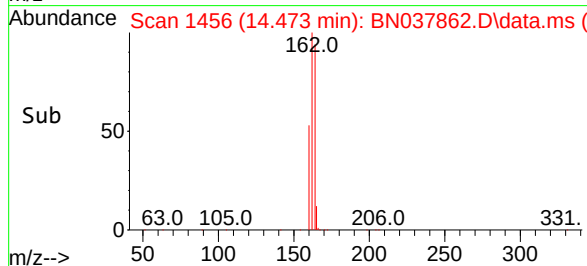
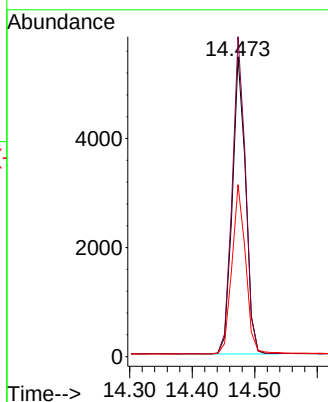
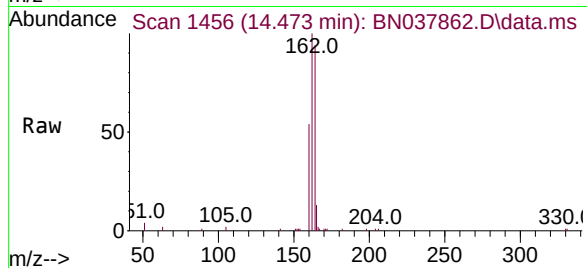
Tgt Ion:164 Resp: 8069

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

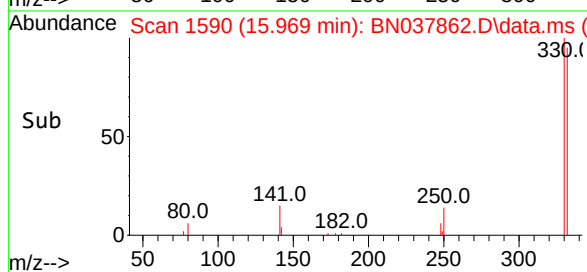
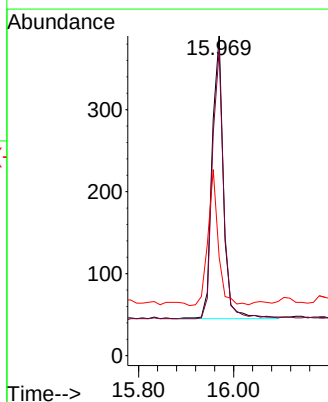
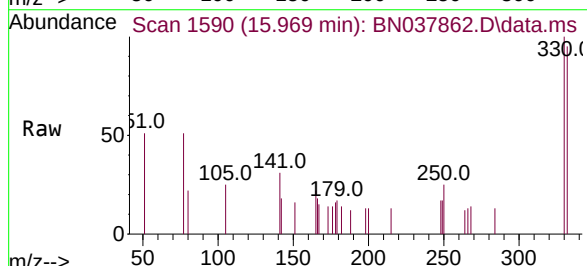
Tgt Ion:330 Resp: 573

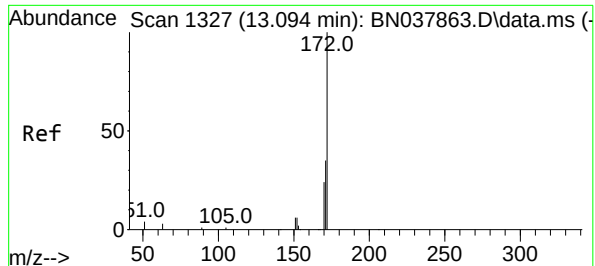
Ion Ratio Lower Upper

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

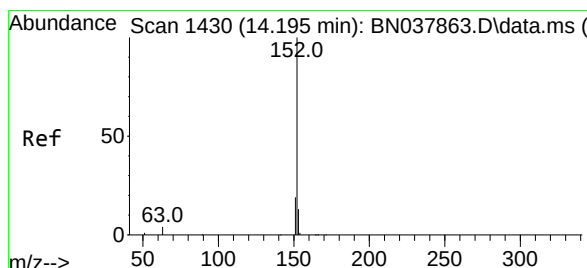
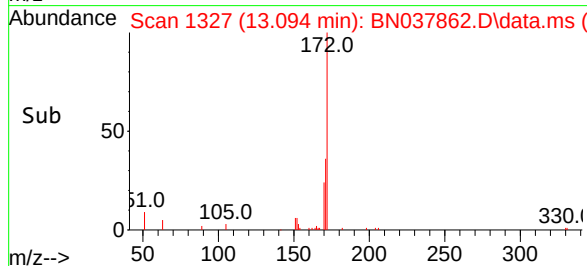
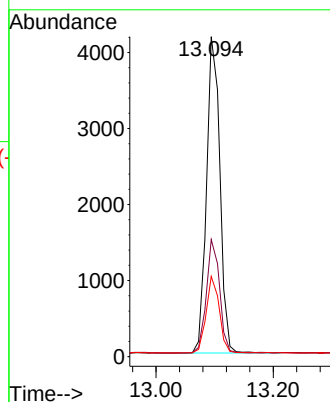
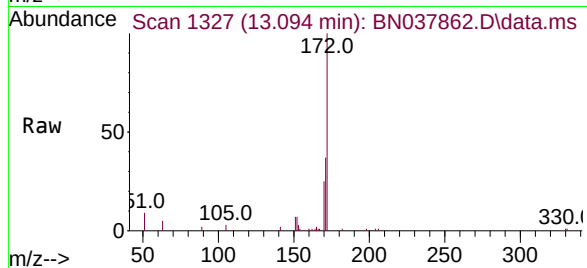
Tgt Ion:172 Resp: 6579

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

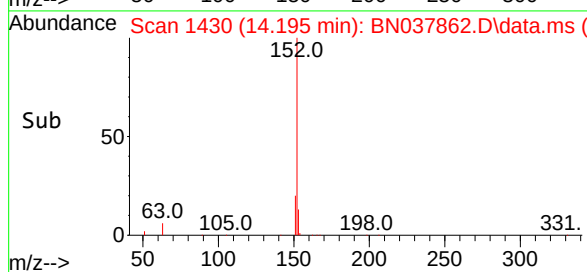
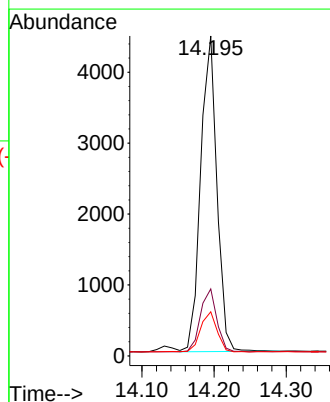
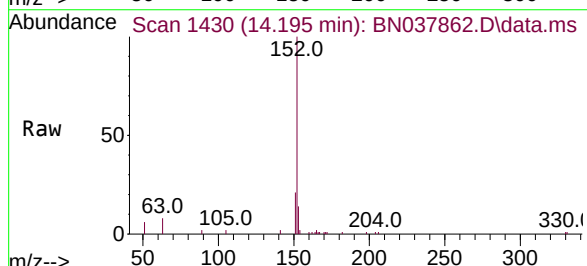
Tgt Ion:152 Resp: 6943

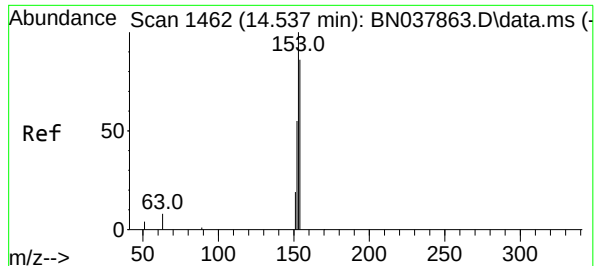
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 13.1 10.5 15.7

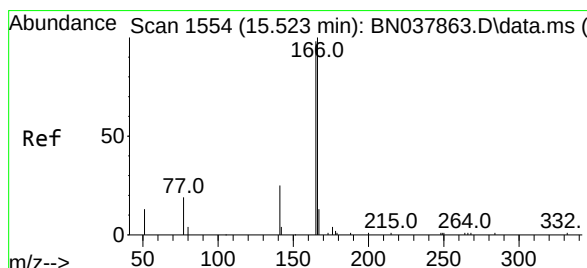
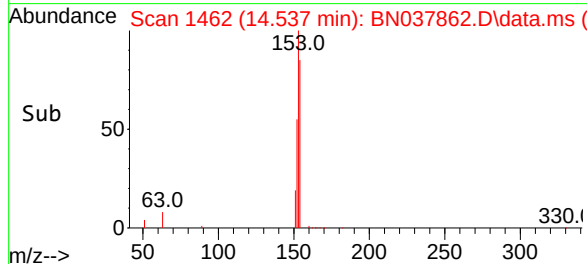
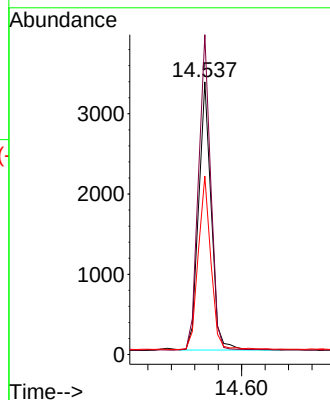
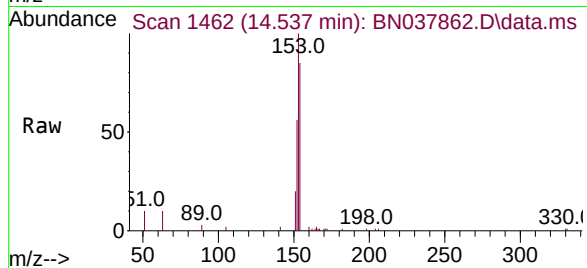




#17
Acenaphthene
Concen: 0.190 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

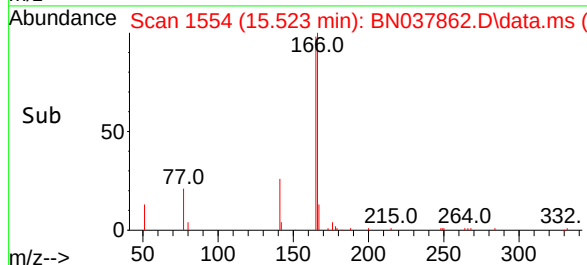
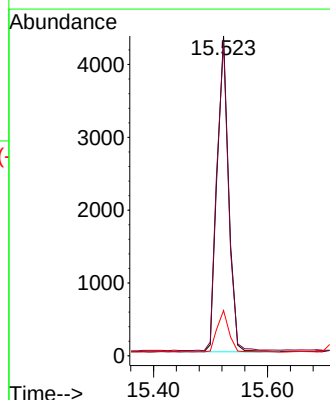
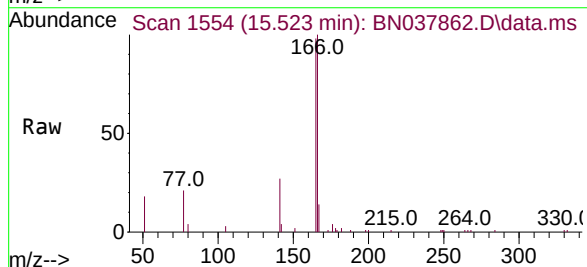
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

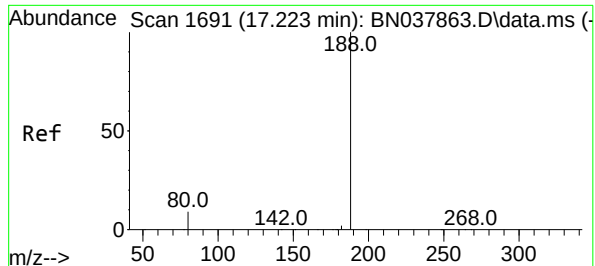
Tgt Ion	154	Resp	4963
Ion Ratio	Lower	Upper	
154	100		
153	115.4	90.5	135.7
152	65.5	51.8	77.8



#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

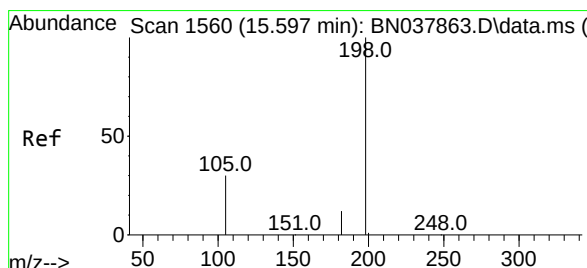
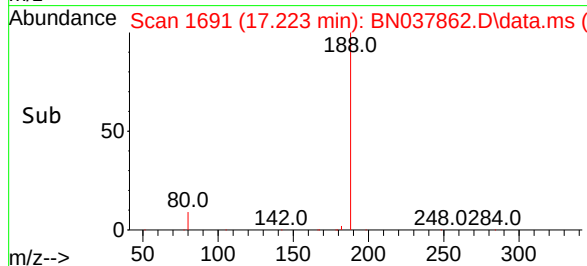
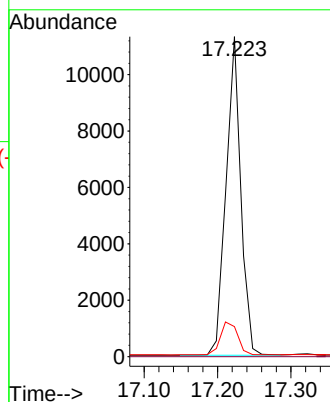
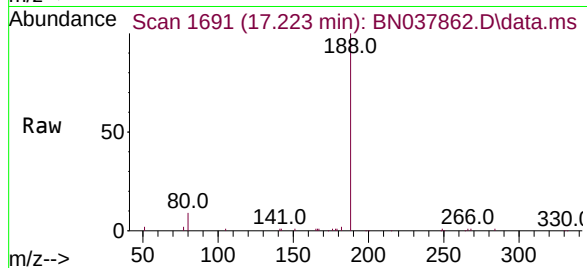
Tgt Ion:188 Resp: 15912

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

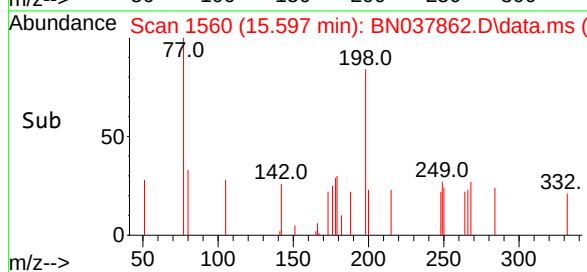
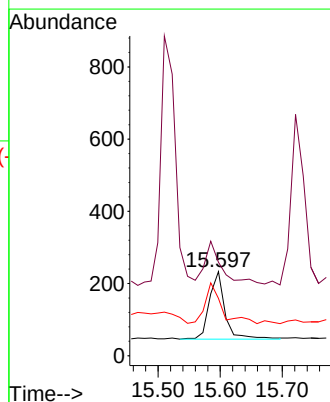
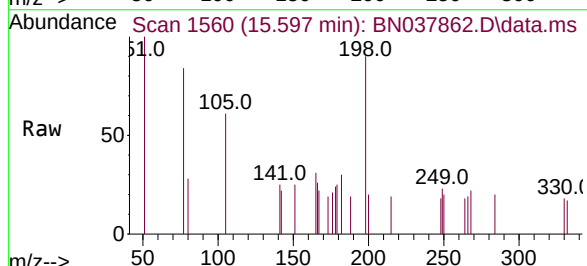
Tgt Ion:198 Resp: 325

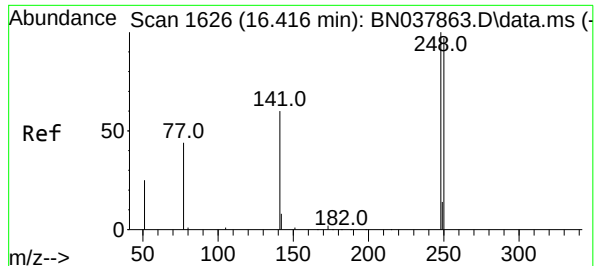
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#

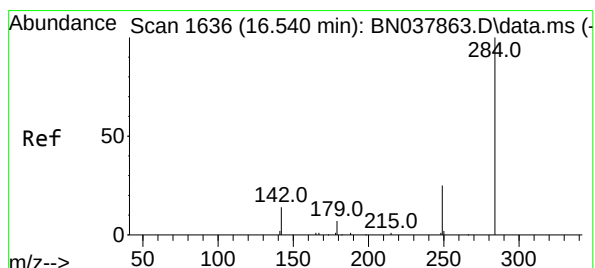
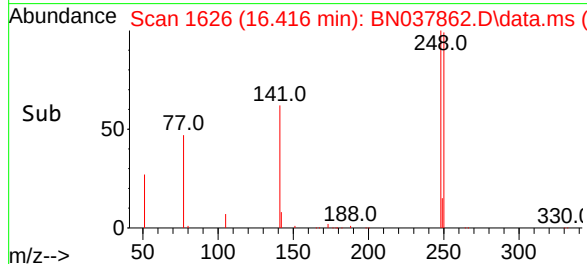
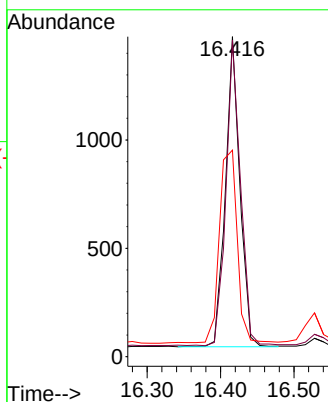
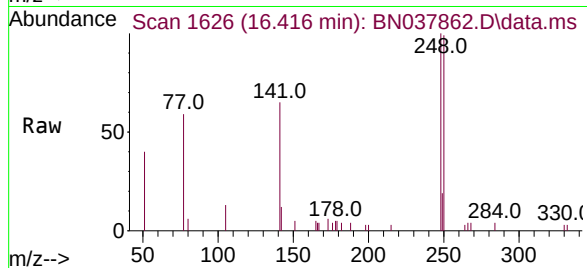




#21
4-Bromophenyl-phenylether
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

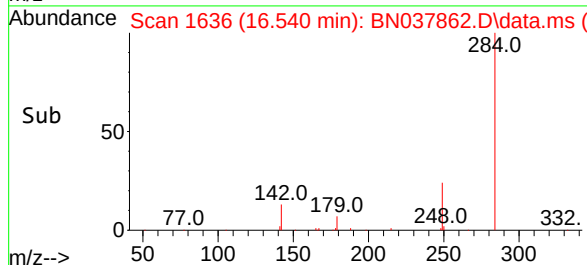
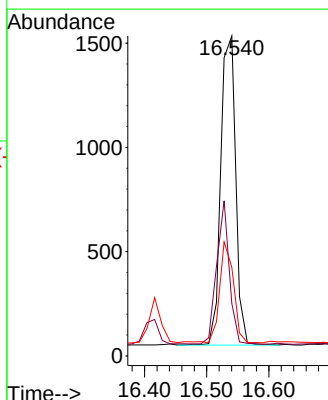
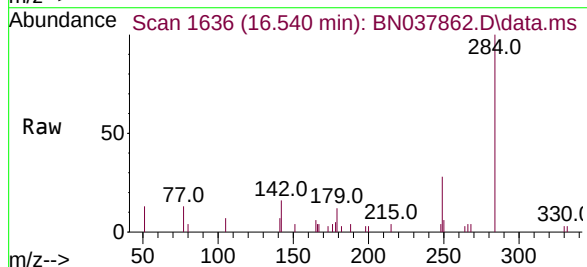
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

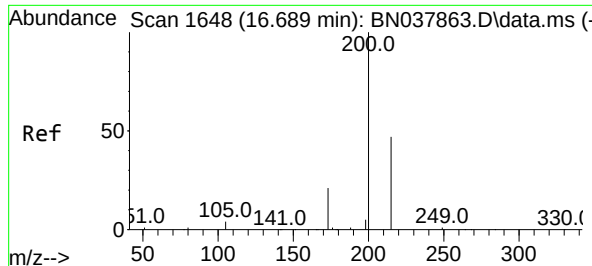
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.8	77.6	116.4
141	64.5	48.8	73.2



#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	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.3	23.9	35.9

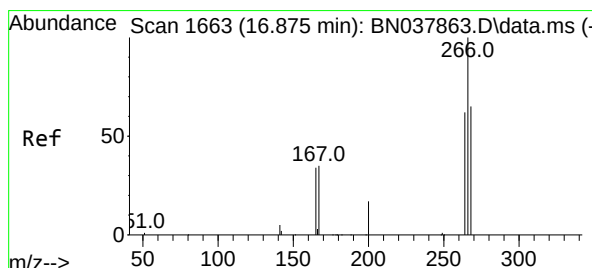
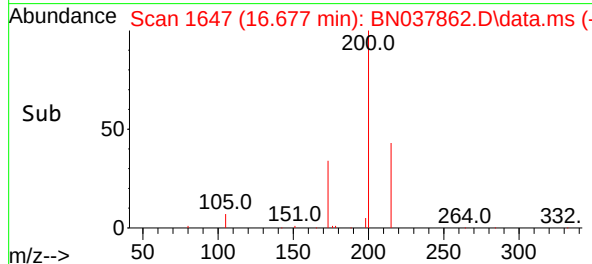
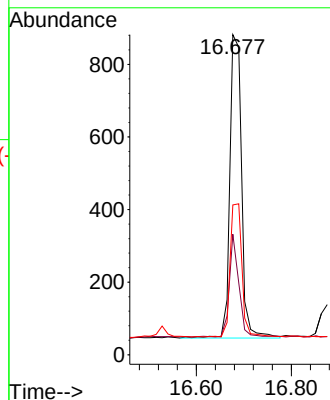
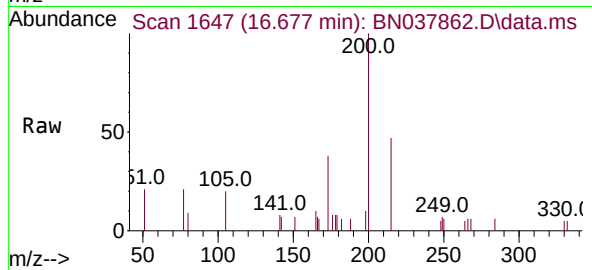




#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

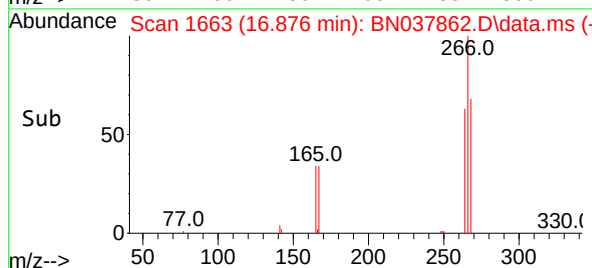
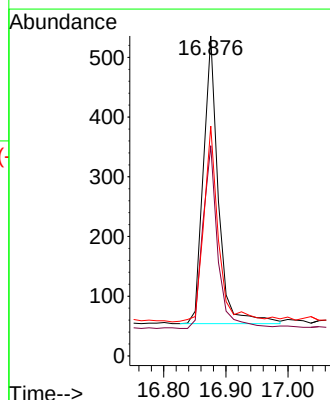
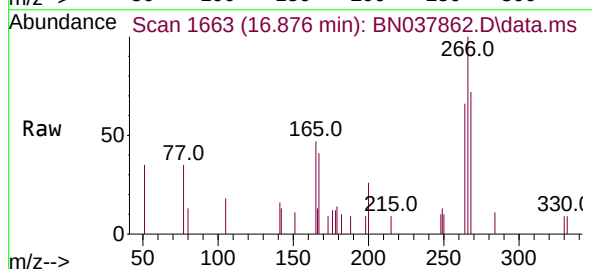
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

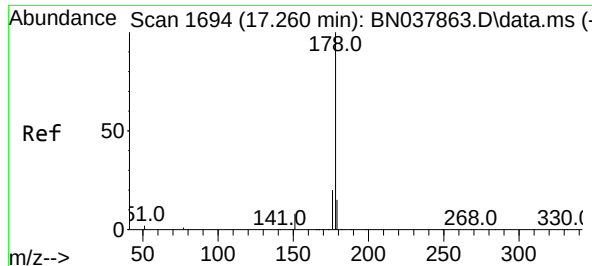
Tgt Ion:200 Resp: 1442
Ion Ratio Lower Upper
200 100
173 37.6 18.3 27.5#
215 46.8 38.6 58.0



#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

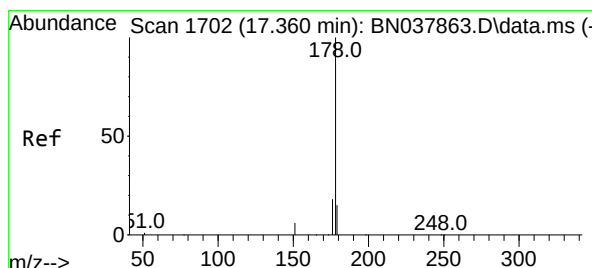
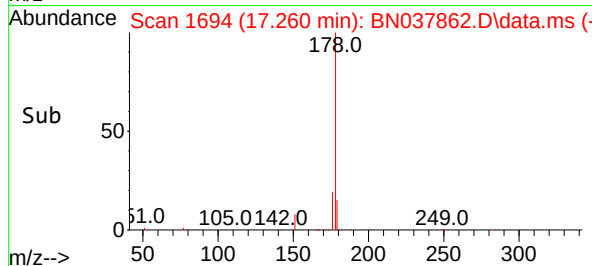
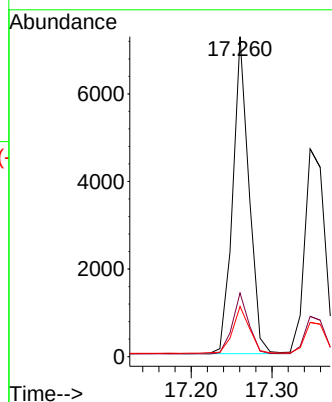
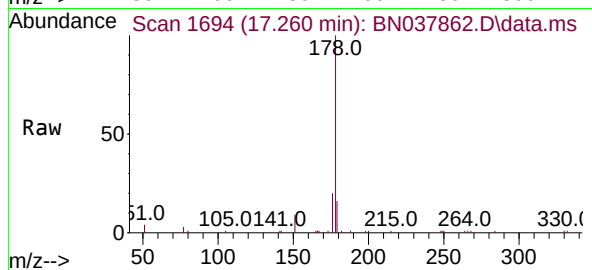
Tgt Ion:178 Resp: 10109

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

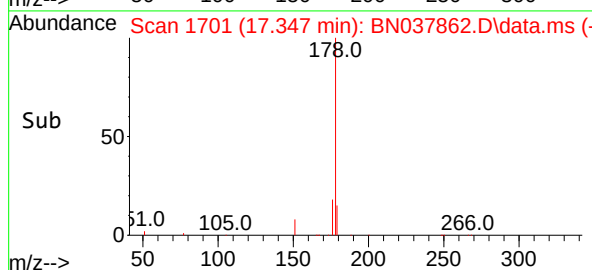
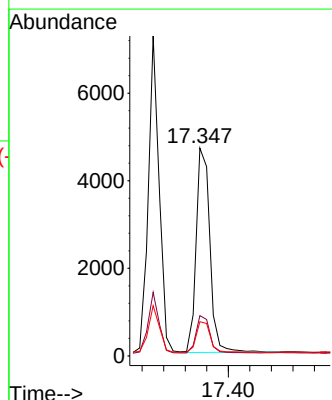
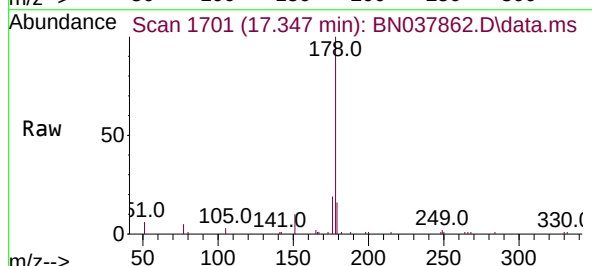
Tgt Ion:178 Resp: 8235

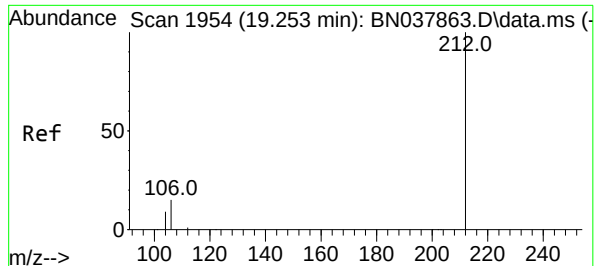
Ion Ratio Lower Upper

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

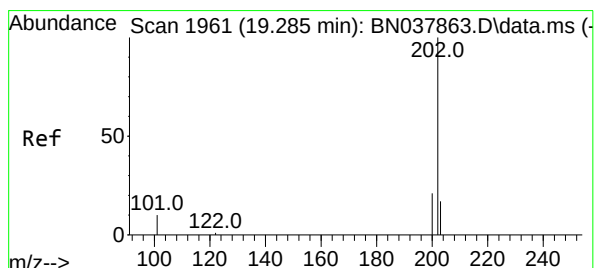
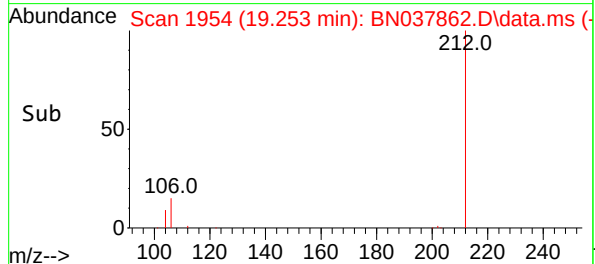
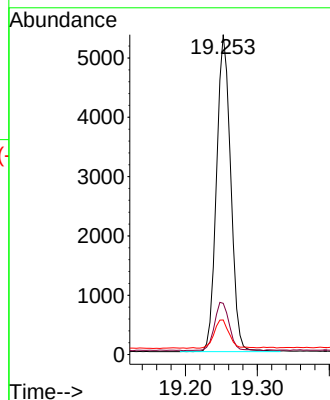
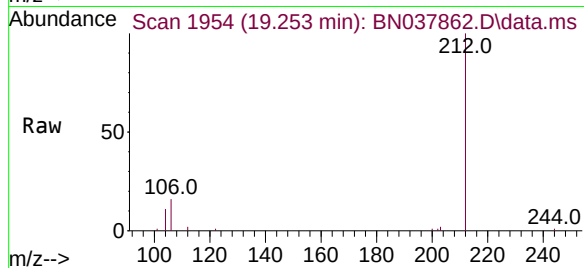
Tgt Ion:212 Resp: 7304

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

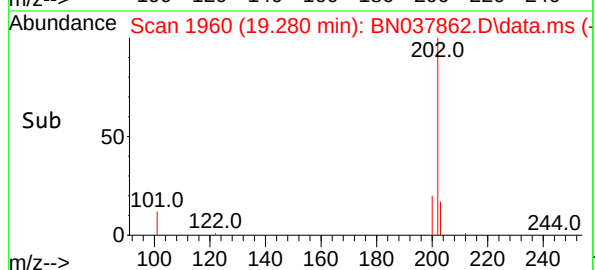
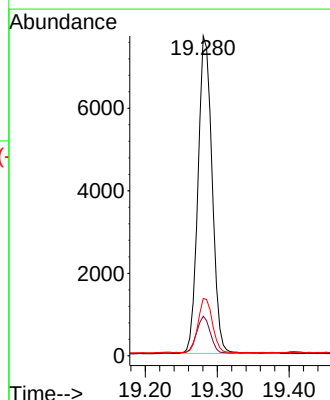
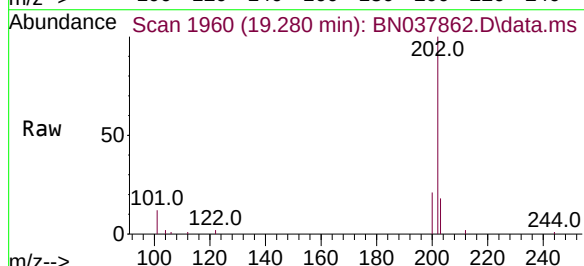
Tgt Ion:202 Resp: 10466

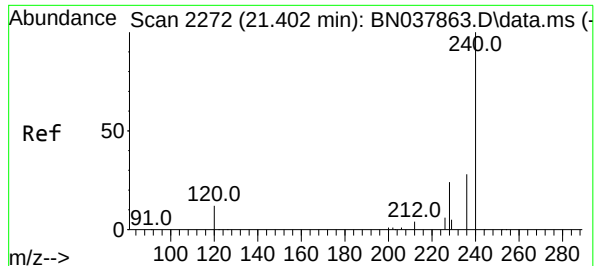
Ion Ratio Lower Upper

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

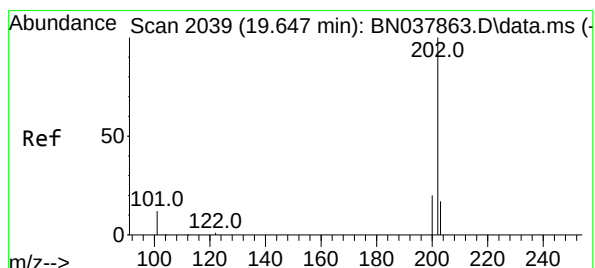
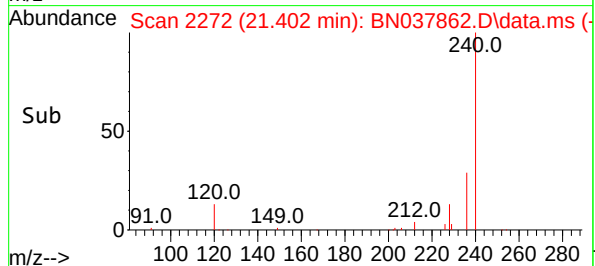
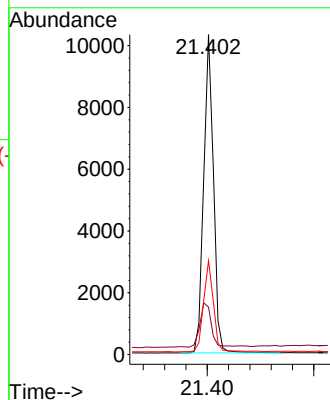
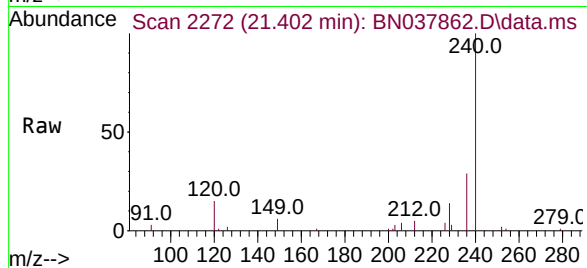
Tgt Ion:240 Resp: 13158

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

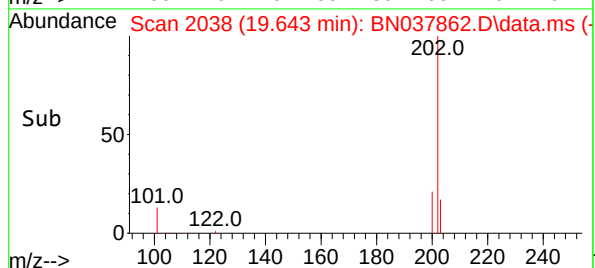
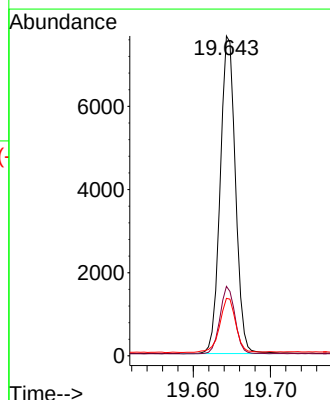
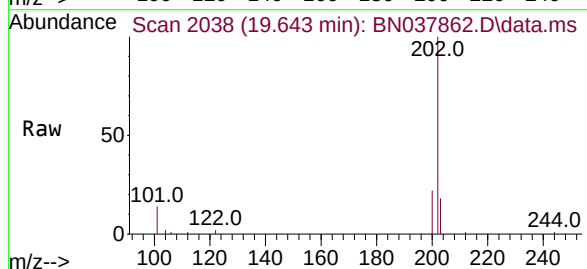
Tgt Ion:202 Resp: 10528

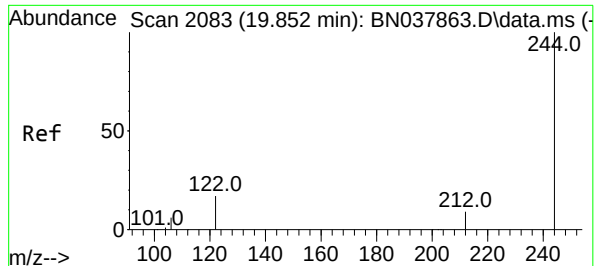
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.9 14.2 21.4

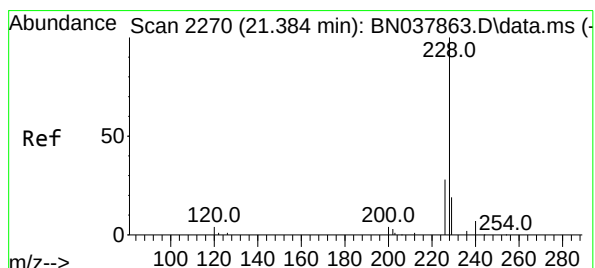
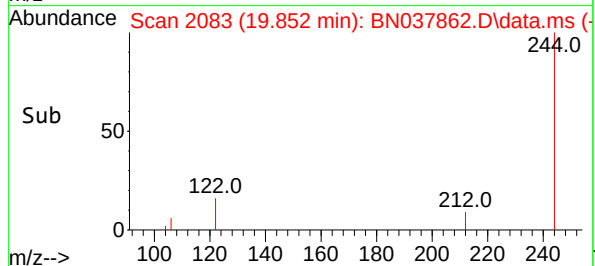
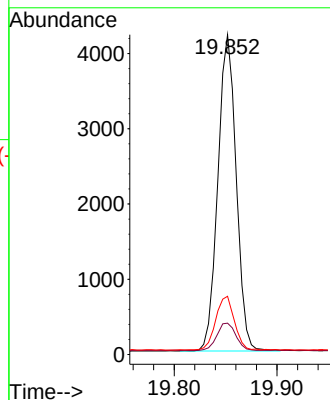
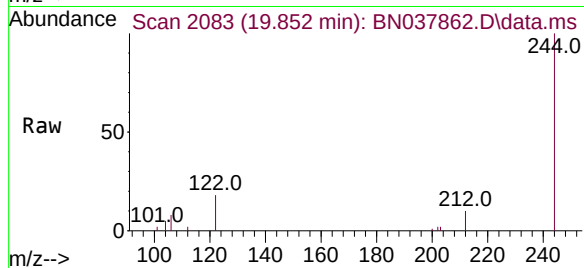




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

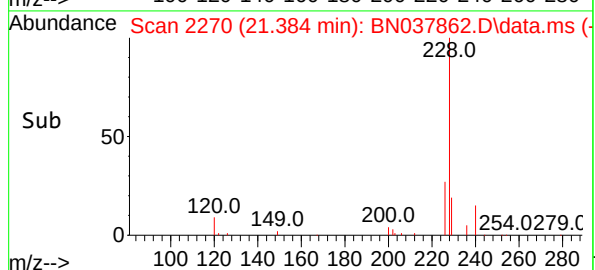
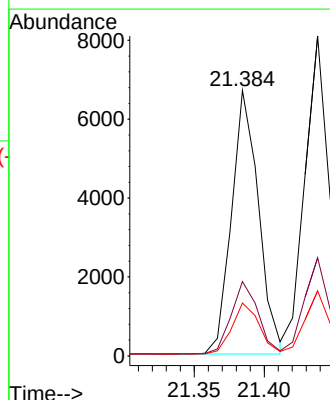
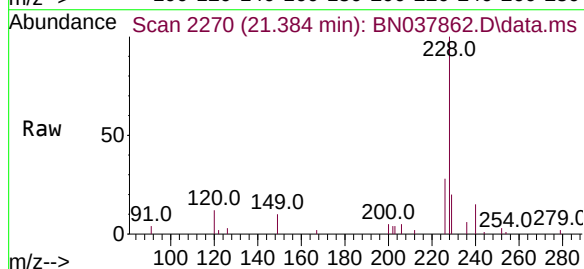
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

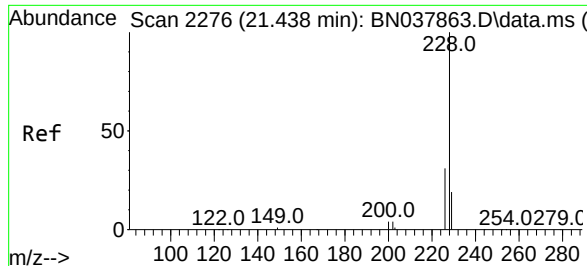
Tgt Ion:244 Resp: 5201
Ion Ratio Lower Upper
244 100
212 9.8 7.6 11.4
122 18.2 13.9 20.9



#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:228 Resp: 8943
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 :

SSTDICC0.2

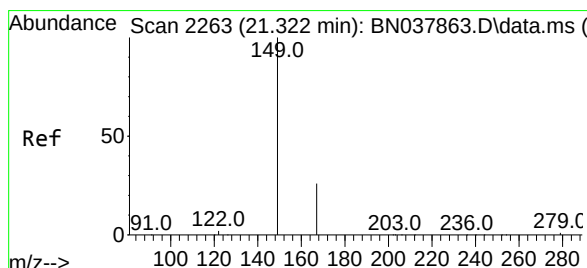
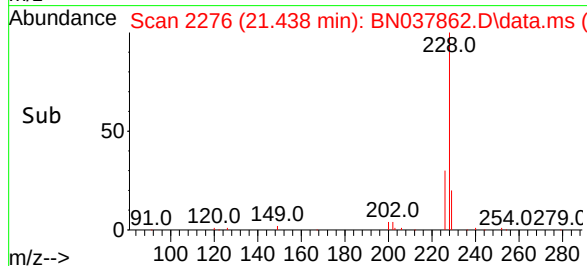
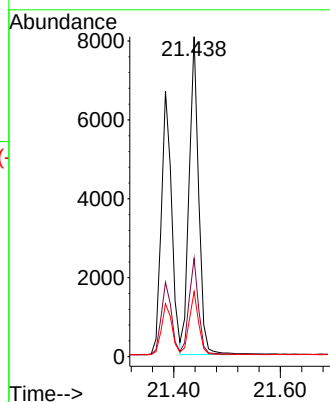
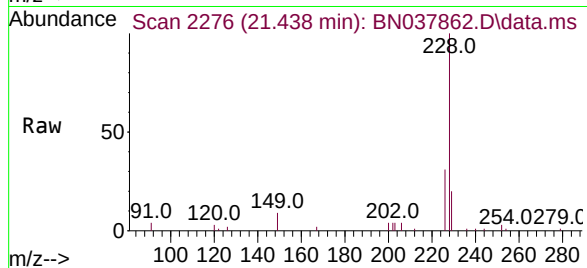
Tgt Ion:228 Resp: 10042

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

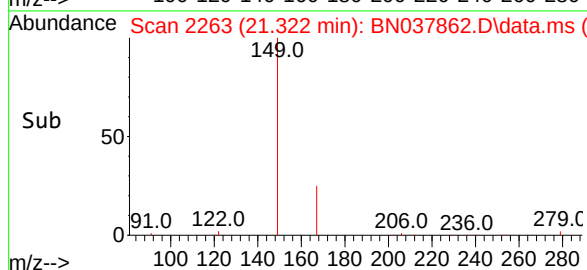
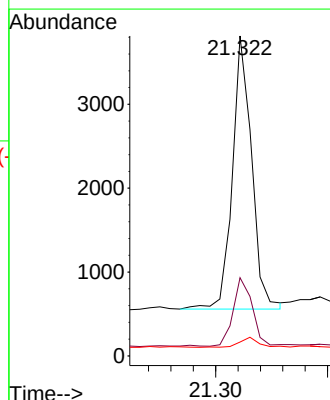
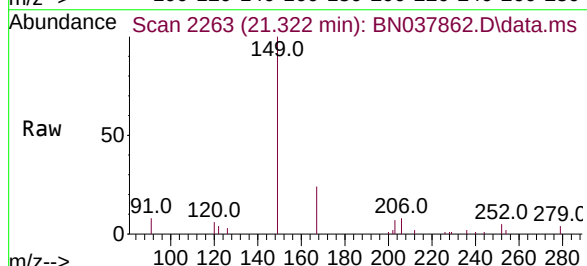
Tgt Ion:149 Resp: 3892

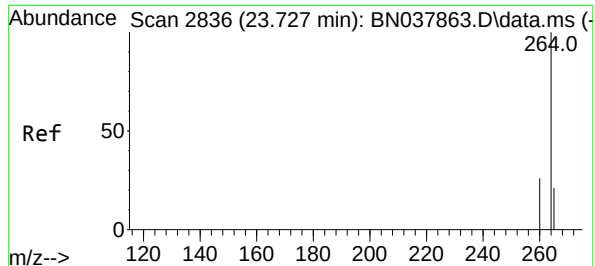
Ion Ratio Lower Upper

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

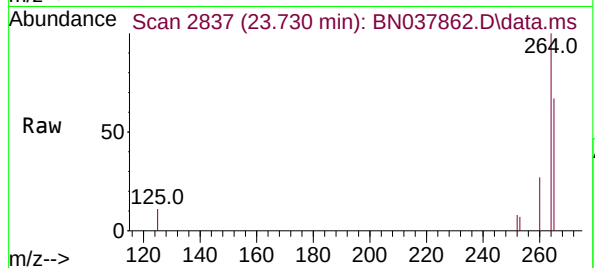
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



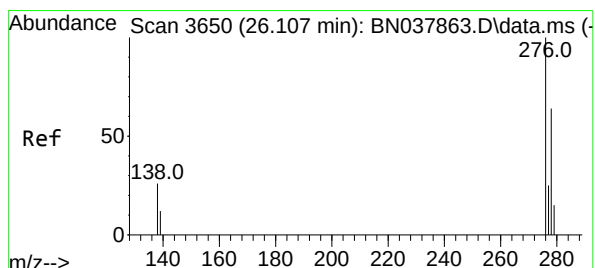
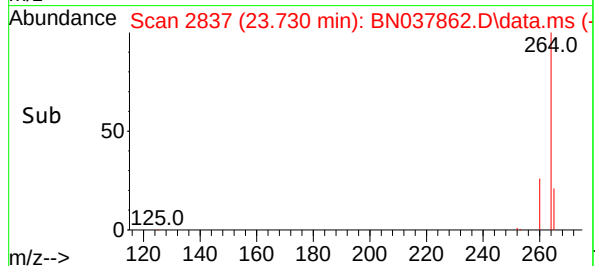
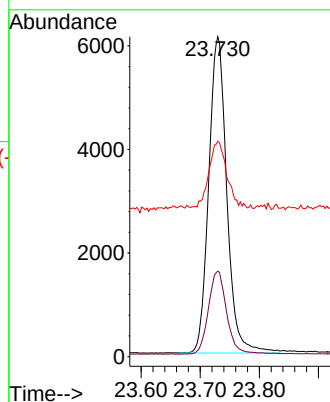
Tgt Ion:264 Resp: 12974

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

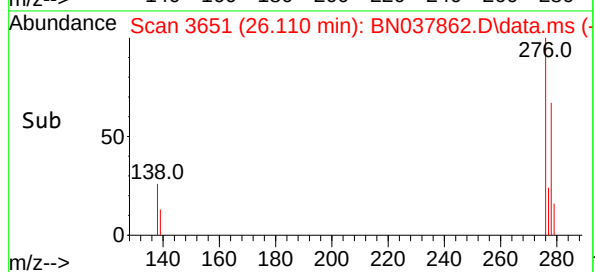
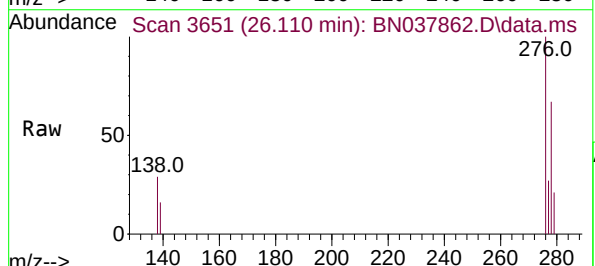
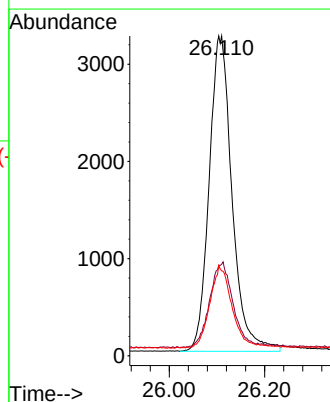
Tgt Ion:276 Resp: 10845

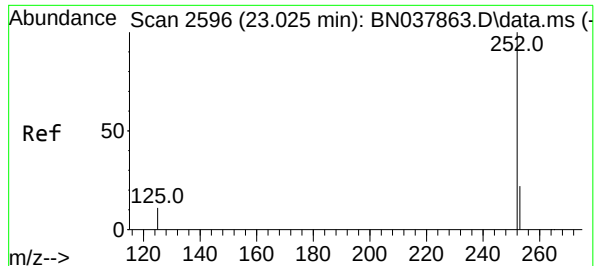
Ion Ratio Lower Upper

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

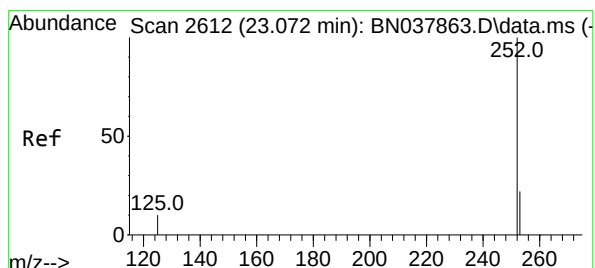
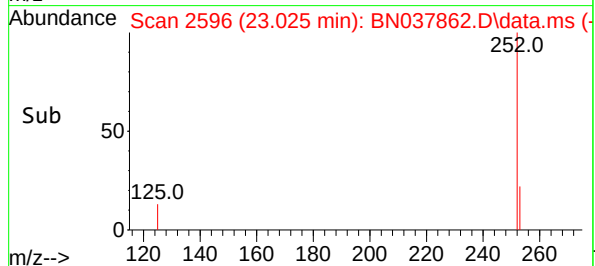
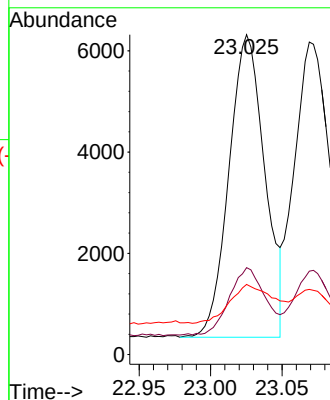
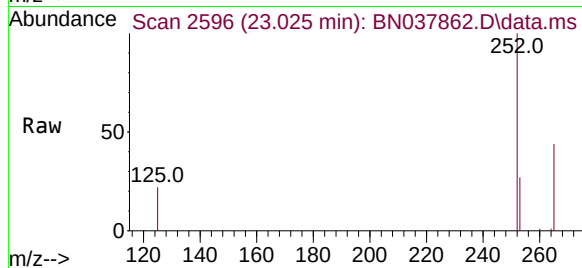
Tgt Ion:252 Resp: 10420

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

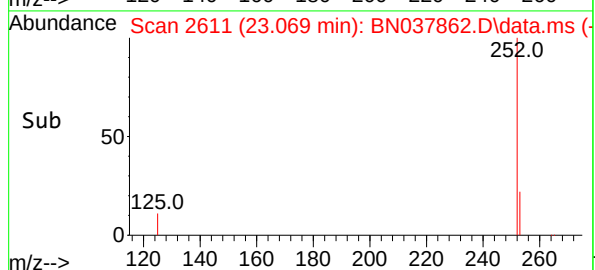
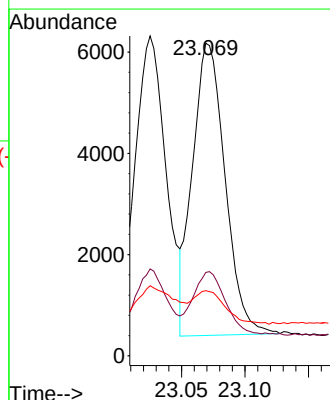
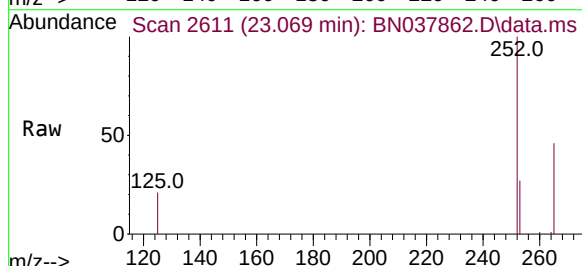
Tgt Ion:252 Resp: 10290

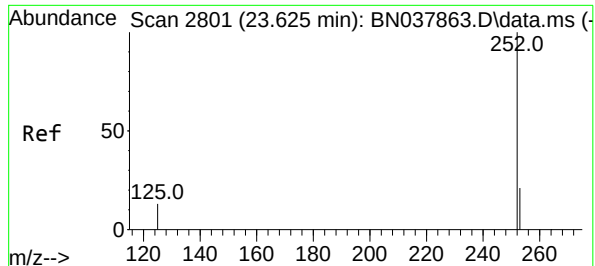
Ion Ratio Lower Upper

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

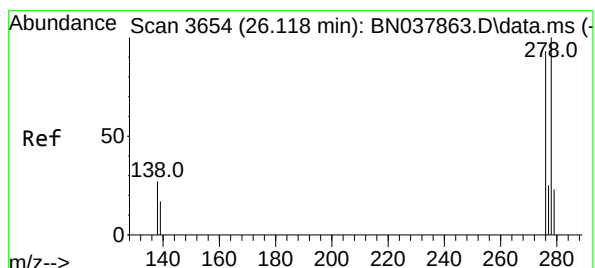
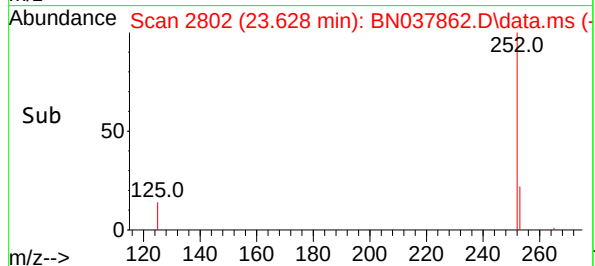
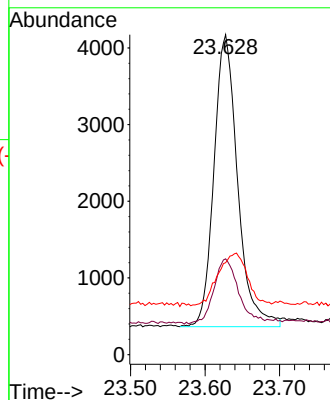
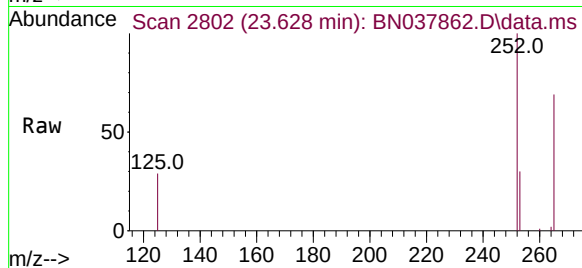
Tgt Ion:252 Resp: 8405

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

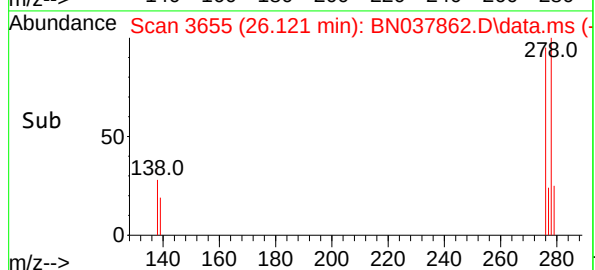
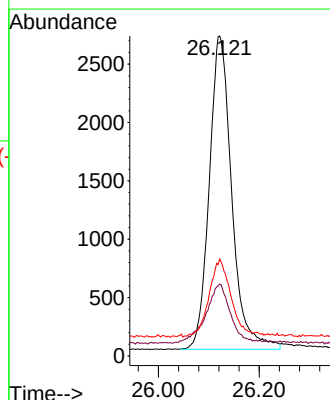
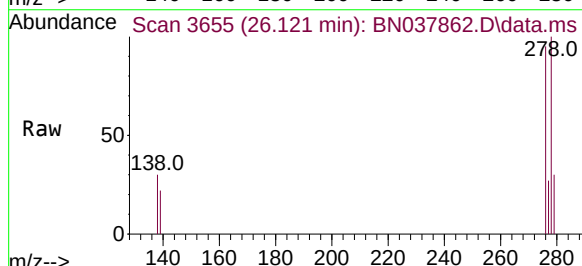
Tgt Ion:278 Resp: 8321

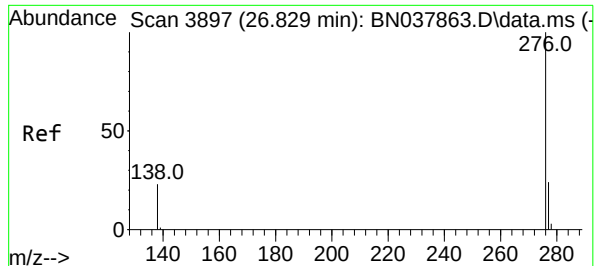
Ion Ratio Lower Upper

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

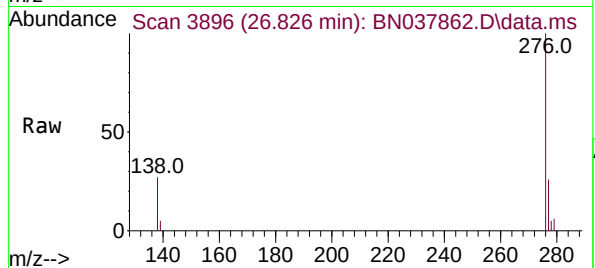
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



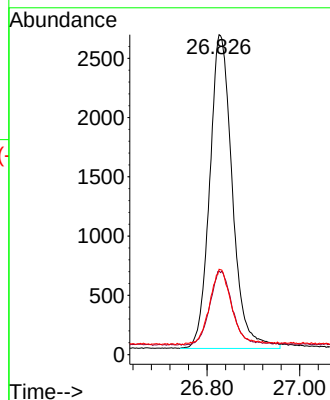
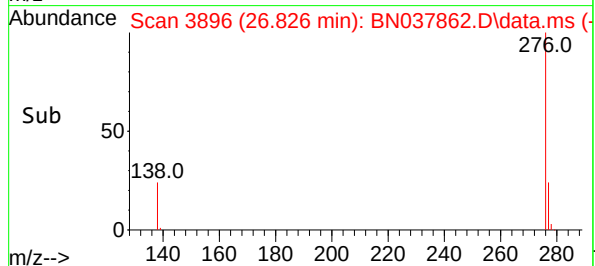
Tgt Ion:276 Resp: 8956

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

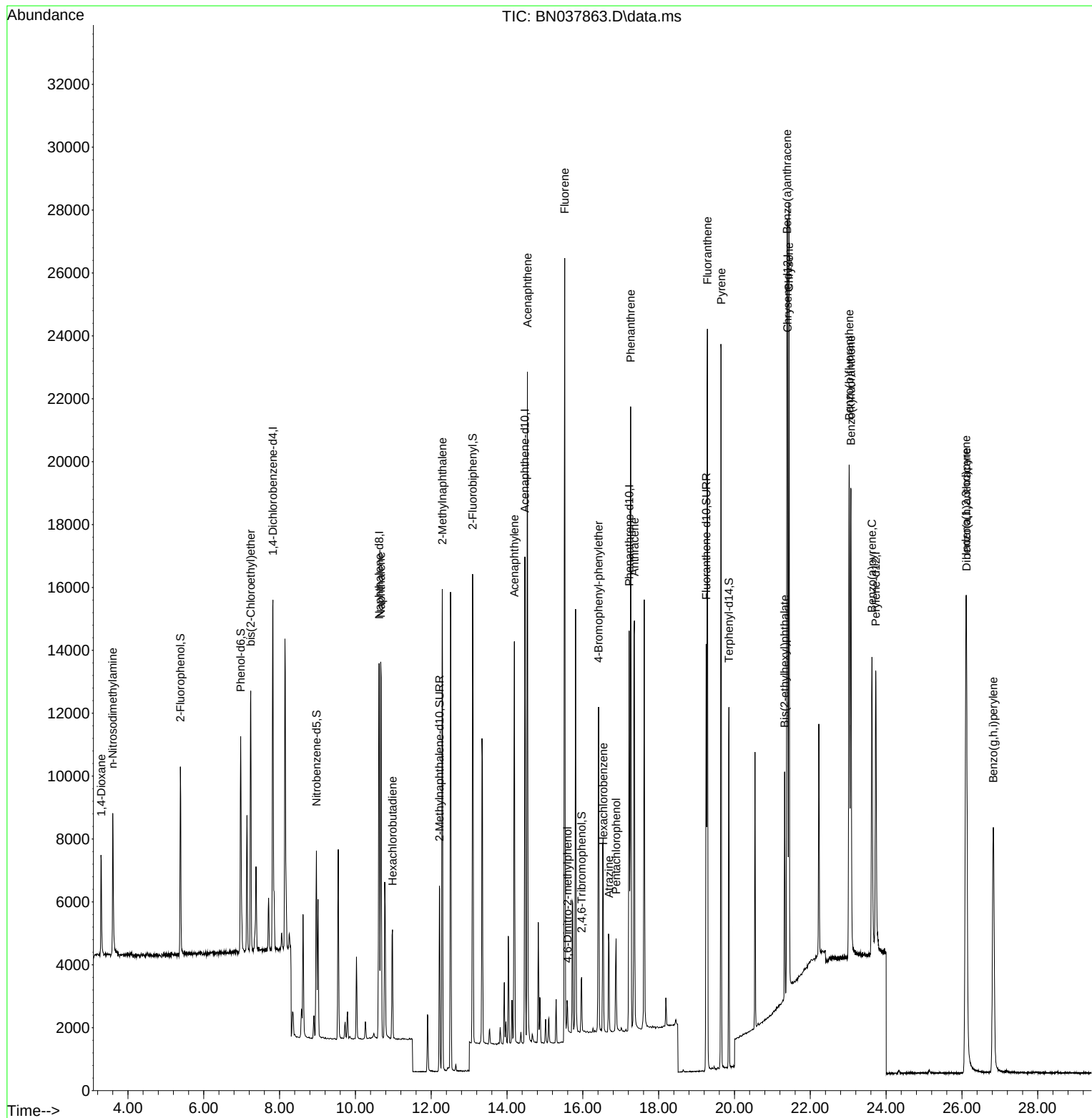
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng	0.00
29) Chrysene-d12	21.402	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

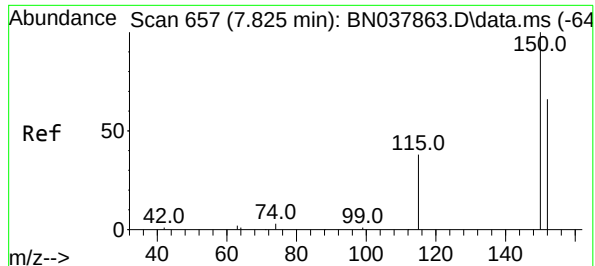
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

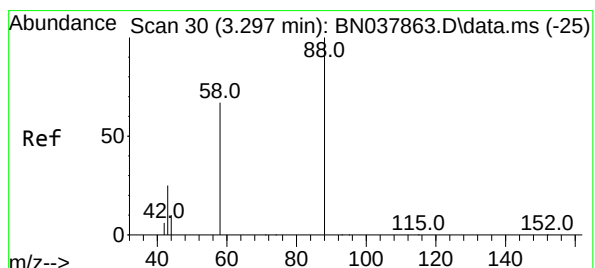
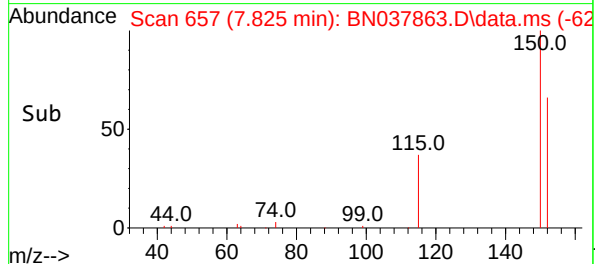
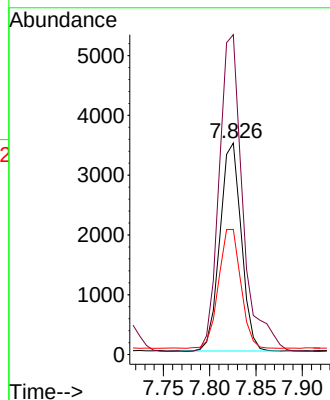
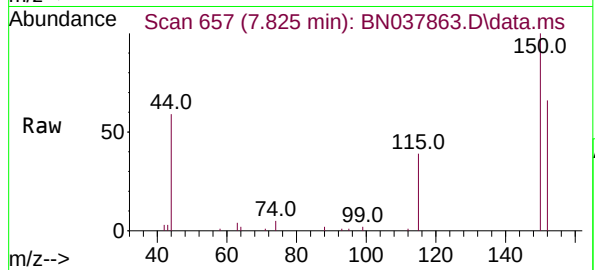




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

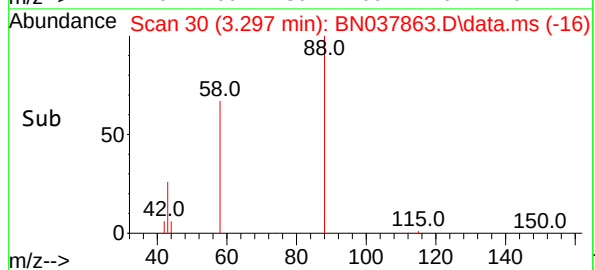
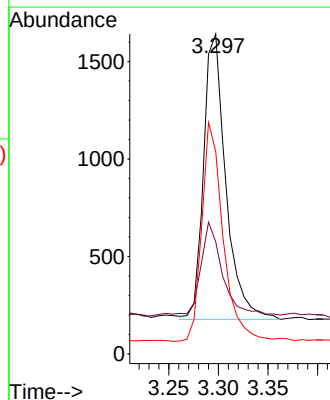
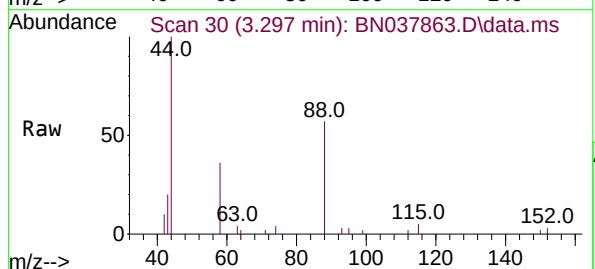
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

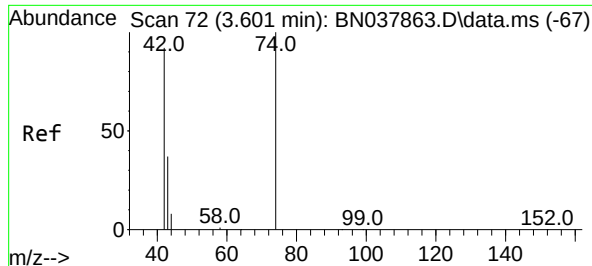
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 151.2 121.0 181.4
115 59.2 47.4 71.0



#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

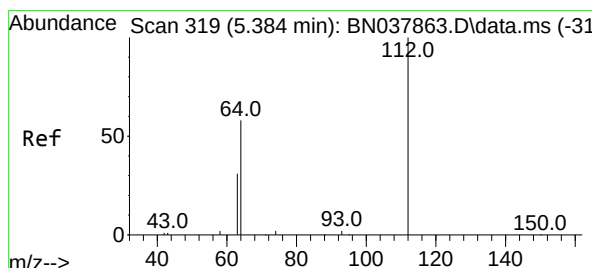
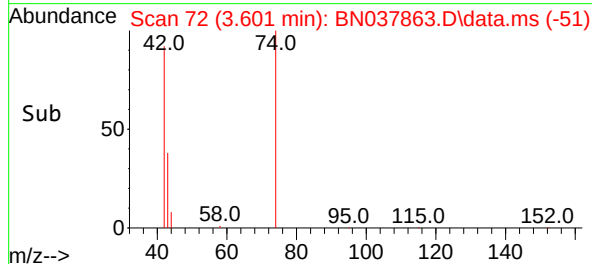
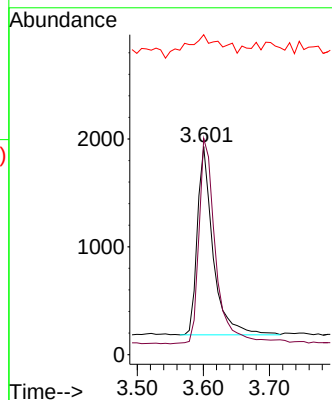
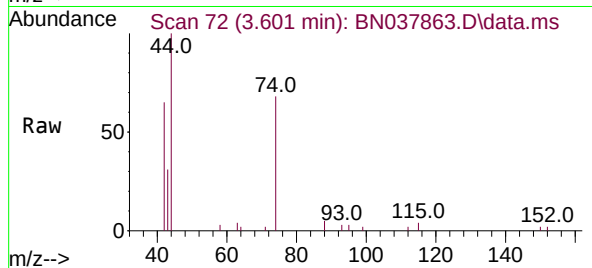




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

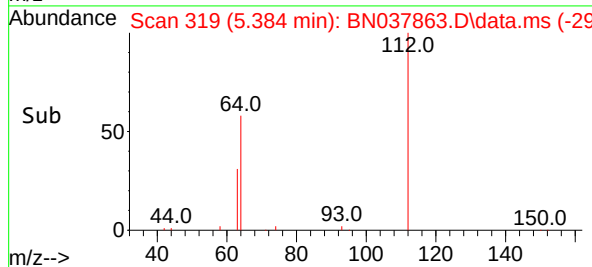
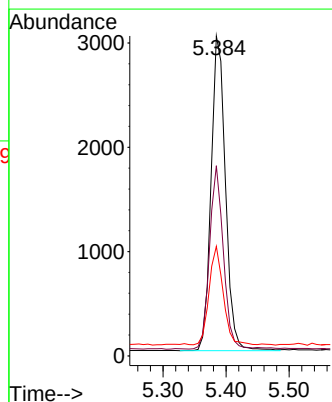
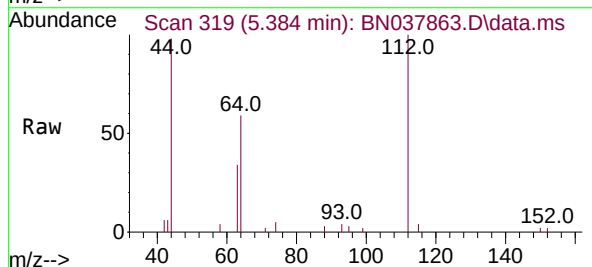
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

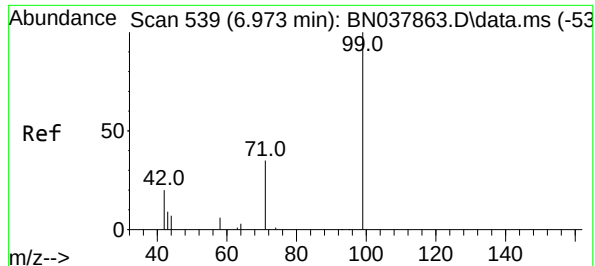
Tgt Ion: 42 Resp: 2885
Ion Ratio Lower Upper
42 100
74 116.7 93.4 140.0
44 27.8 22.2 33.4



#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

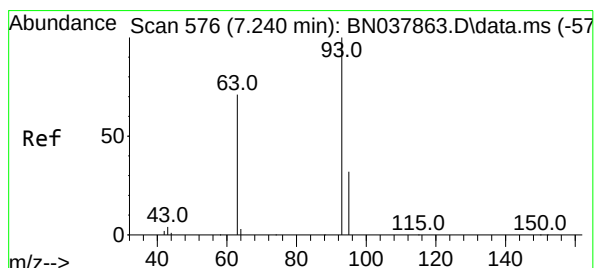
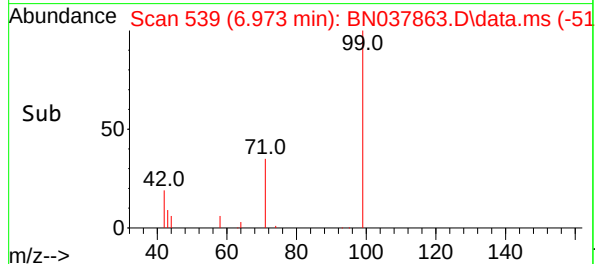
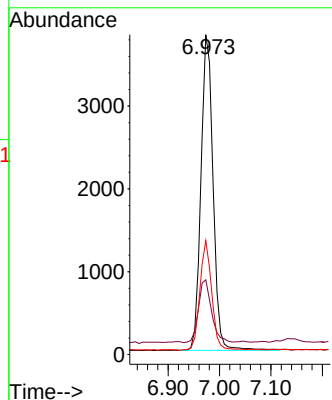
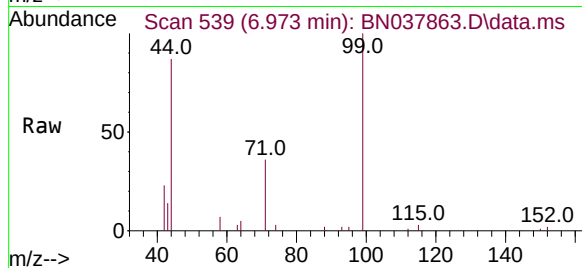




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

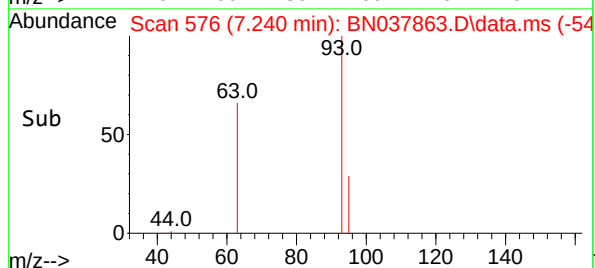
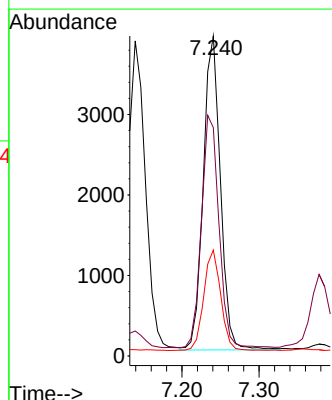
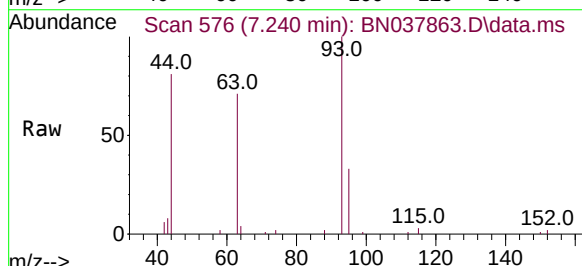
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

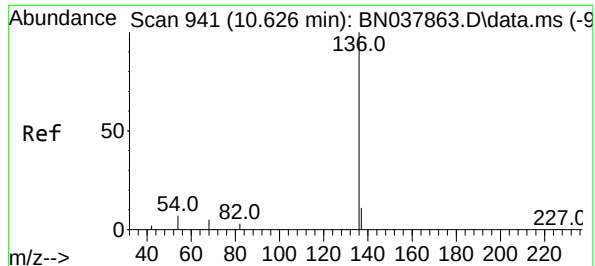
Tgt Ion:	99	Resp:	6244
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9



#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

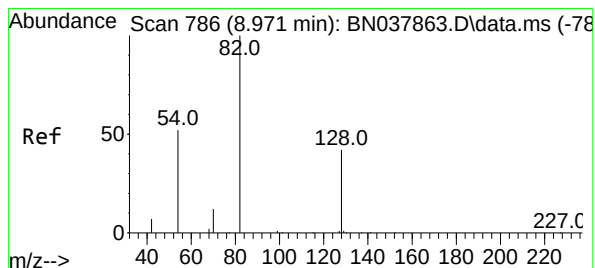
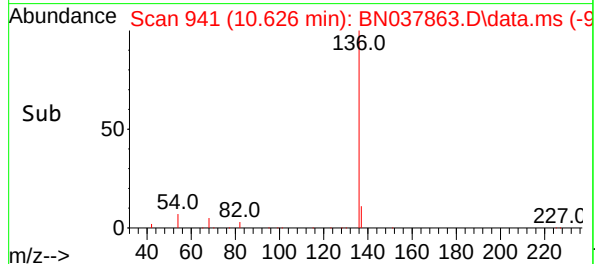
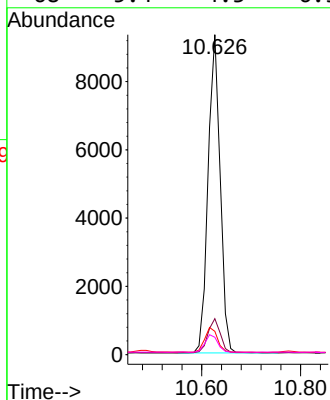
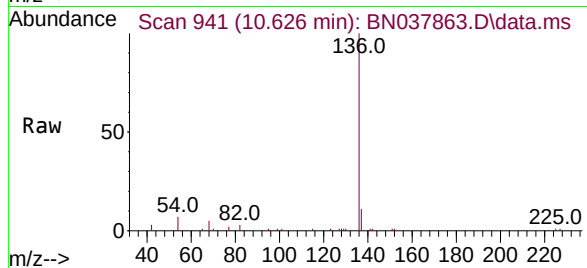




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

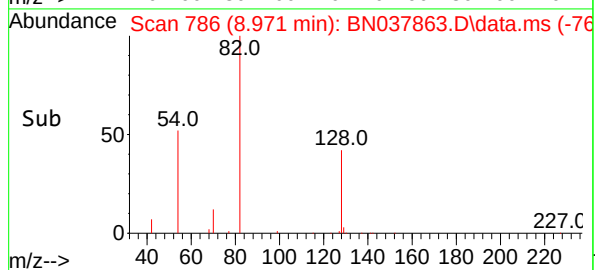
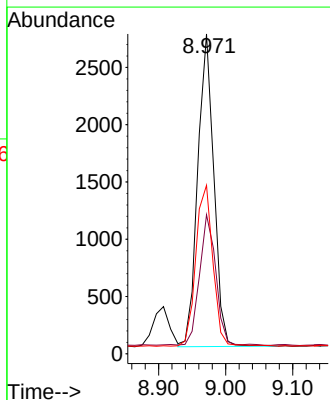
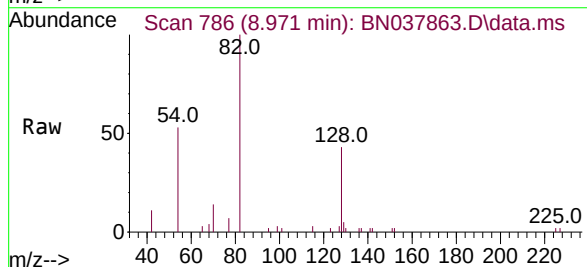
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

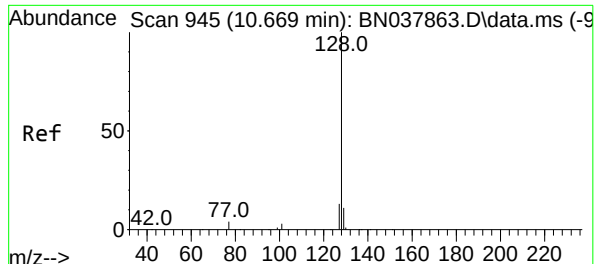
Tgt Ion:	136	Resp:	15792
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5



#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

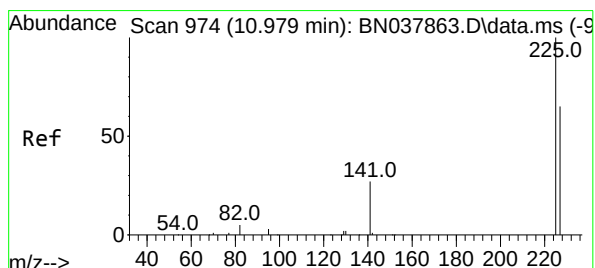
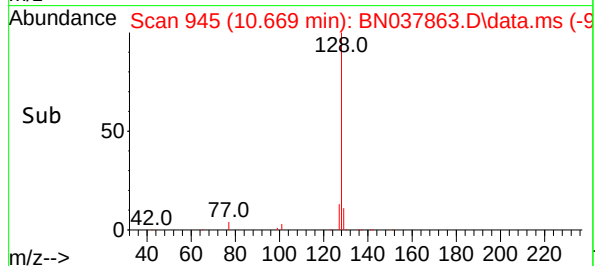
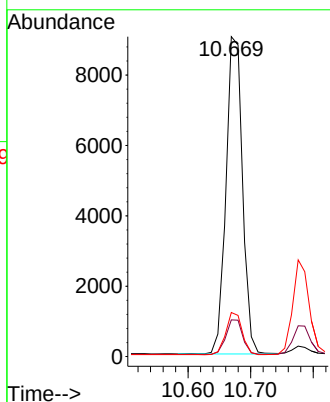
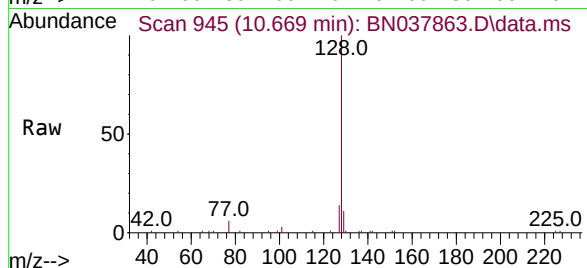
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:	128	Resp:	16547
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

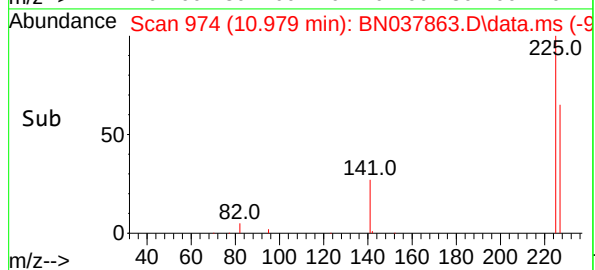
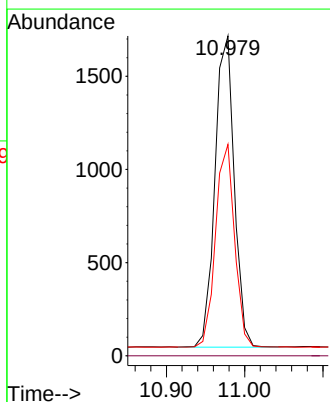
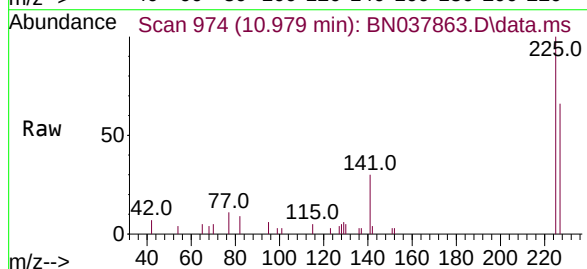
RT: 10.979 min Scan# 974

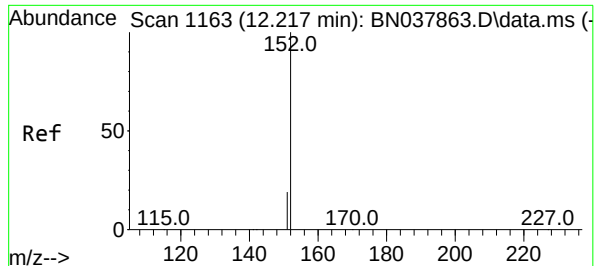
Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Tgt Ion:	225	Resp:	2874
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.4	77.2

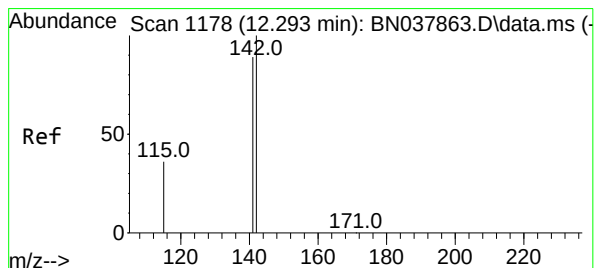
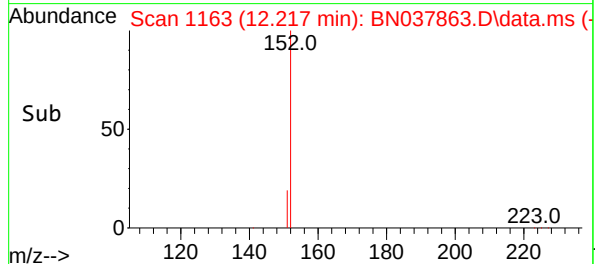
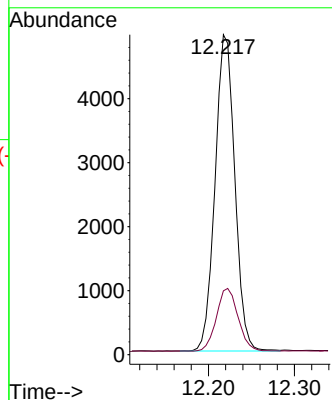
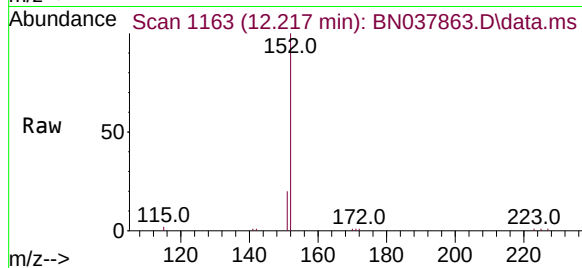




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

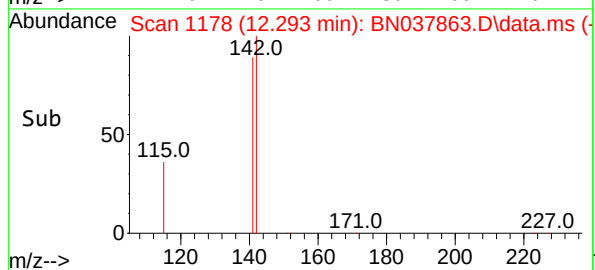
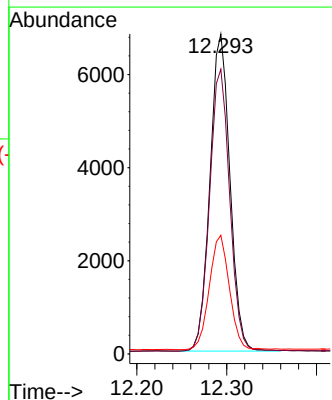
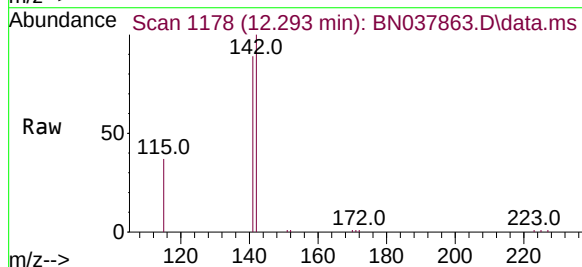
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

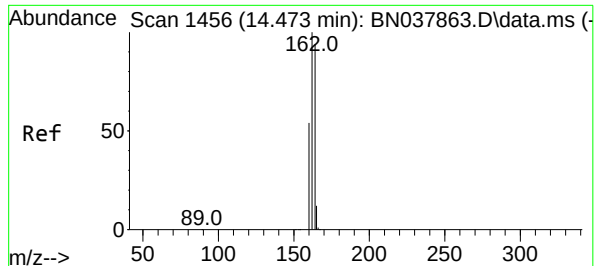
Tgt Ion:152 Resp: 7877
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#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

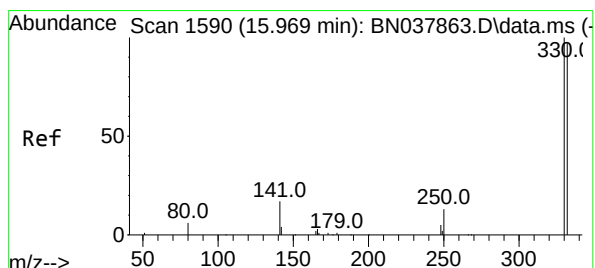
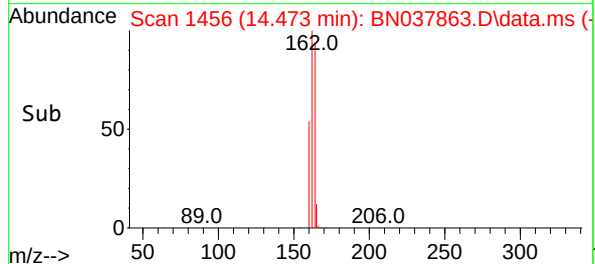
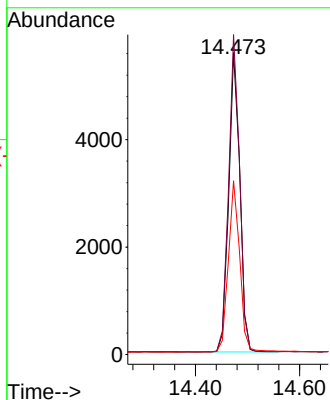
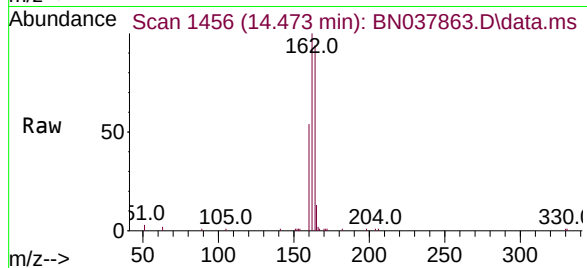




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

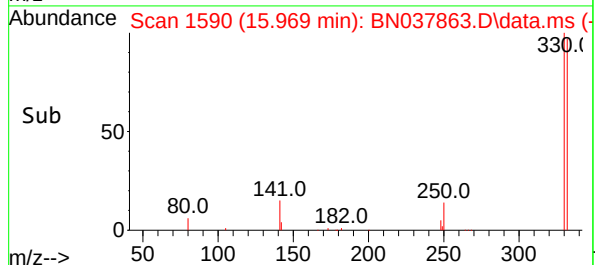
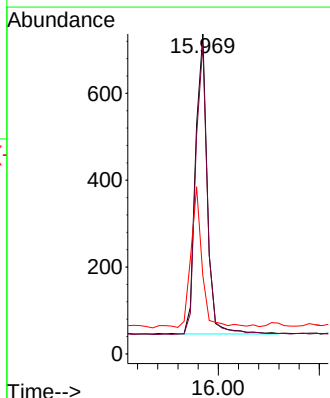
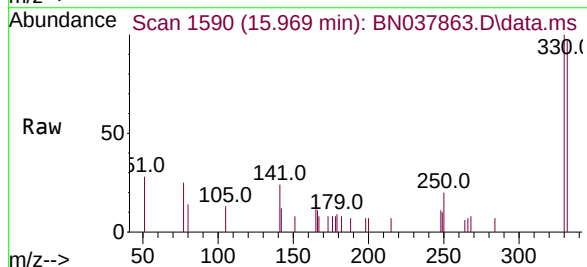
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

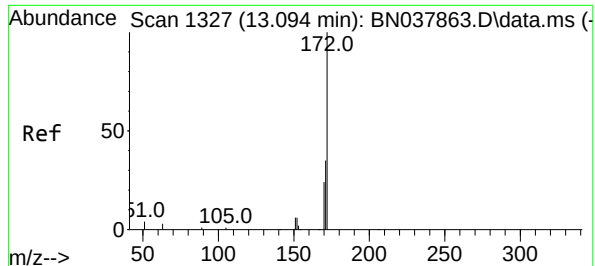
Tgt Ion:164 Resp: 8247
Ion Ratio Lower Upper
164 100
162 106.0 84.8 127.2
160 57.6 46.1 69.1



#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

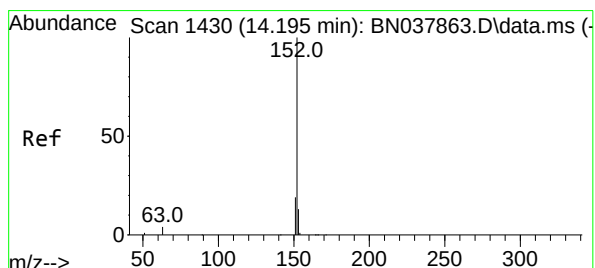
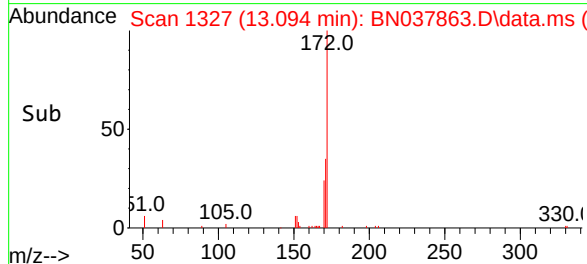
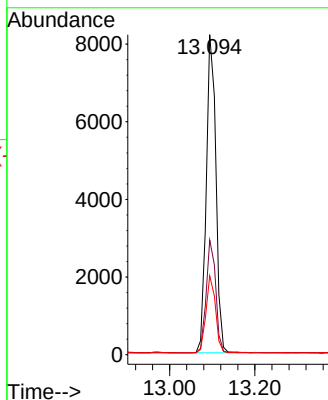
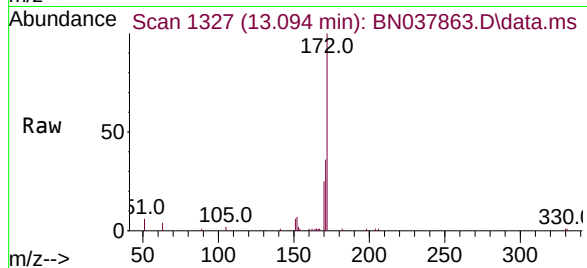




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

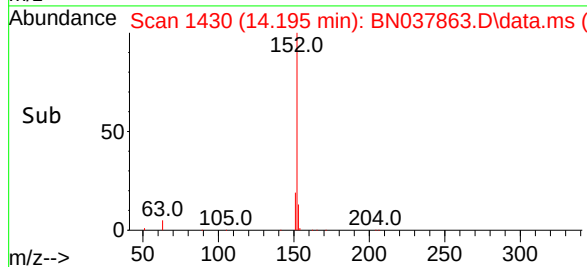
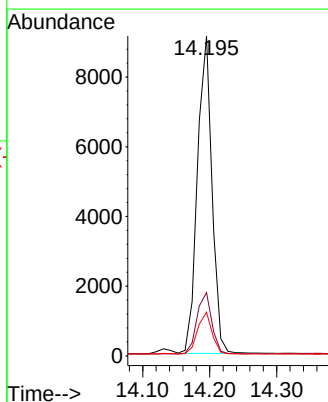
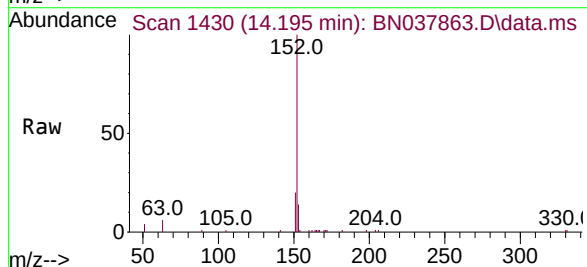
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

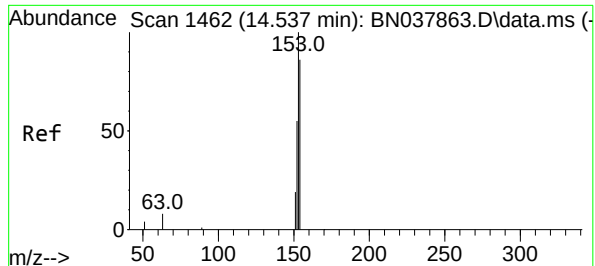
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#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	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.5	15.7

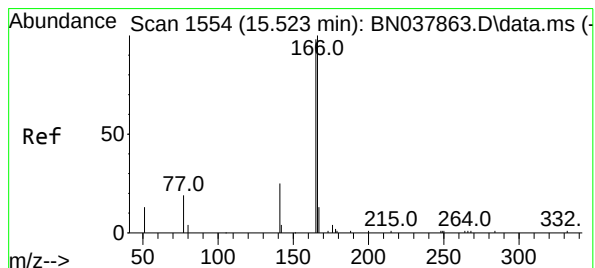
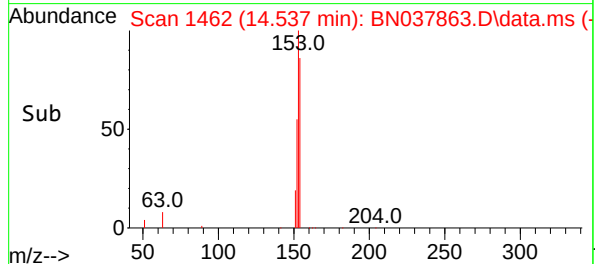
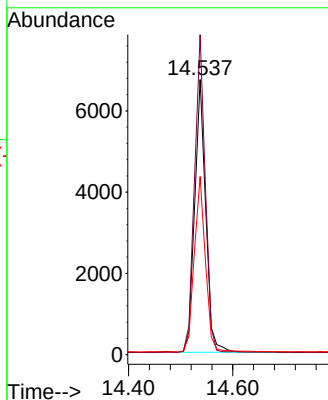
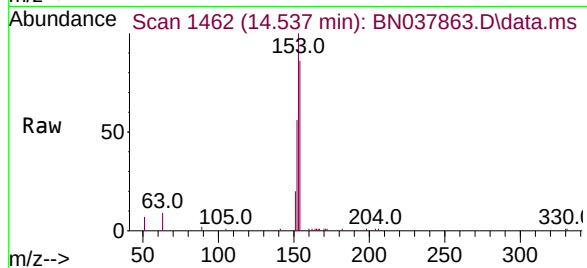




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

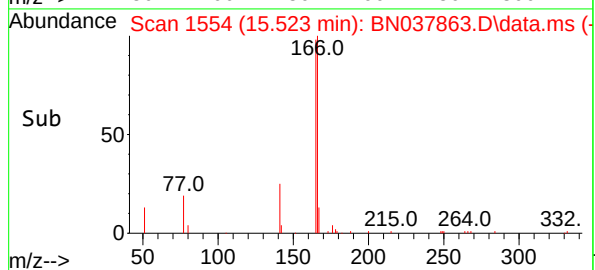
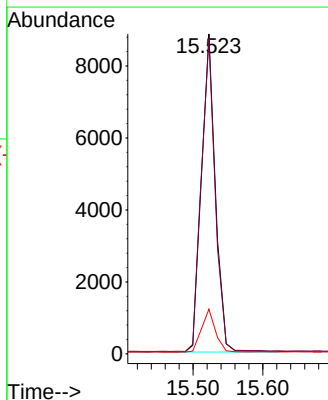
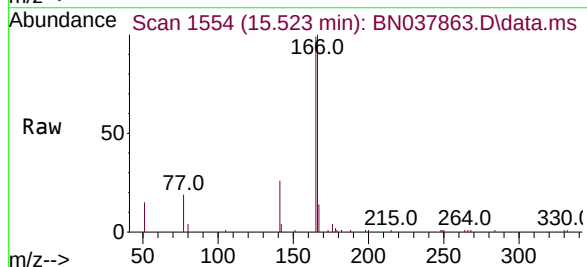
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

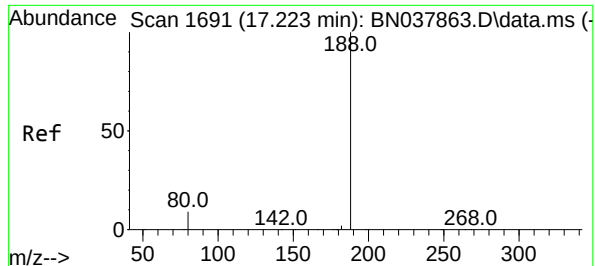
Tgt Ion	154	153	152
Resp:	9880	113.1	64.8
Ion Ratio	100	113.1	64.8
Lower		90.5	51.8
Upper		135.7	77.8



#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

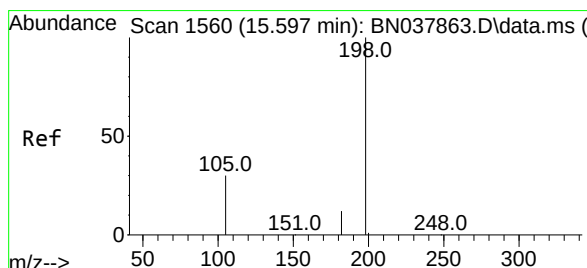
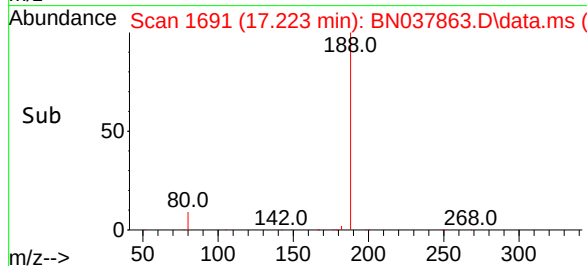
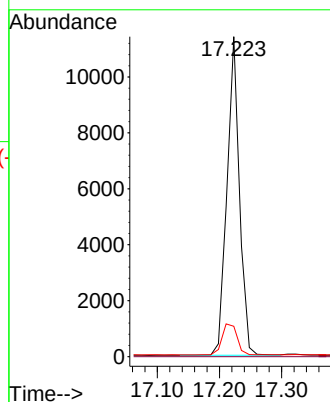
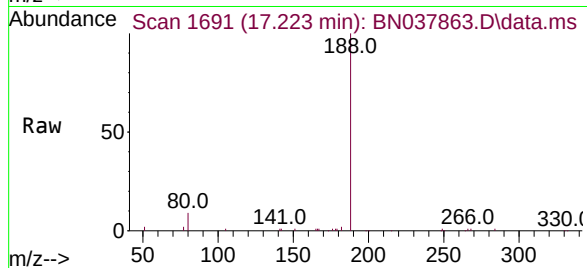
Tgt Ion:188 Resp: 15939

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

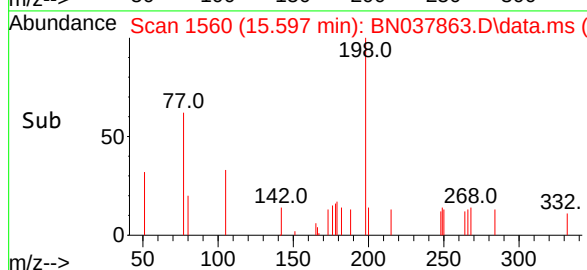
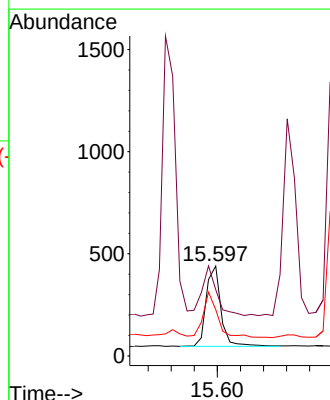
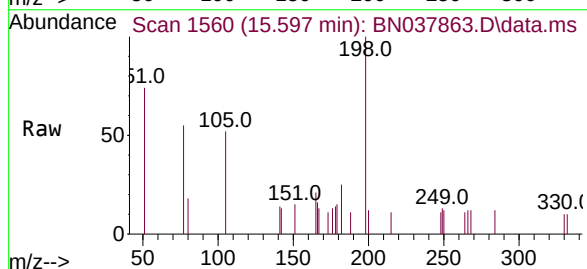
Tgt Ion:198 Resp: 696

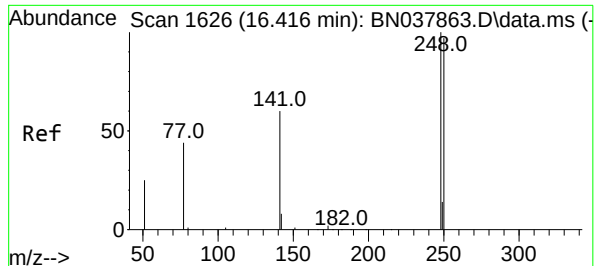
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

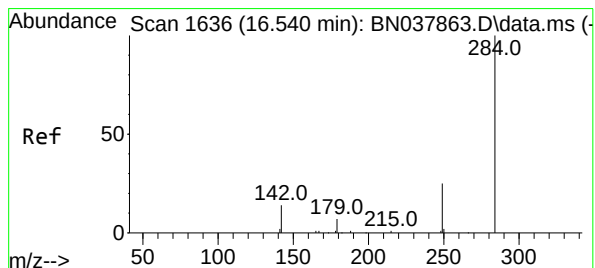
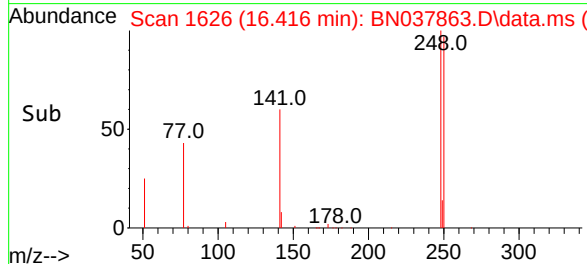
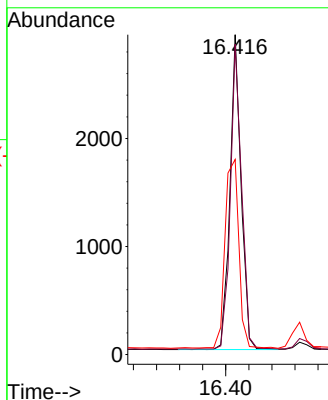
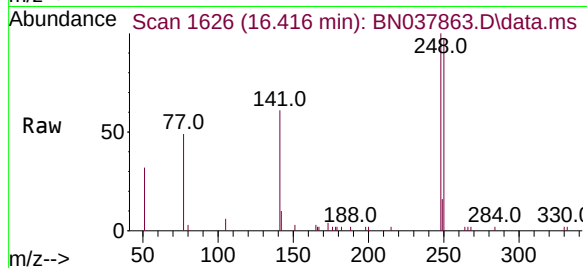




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

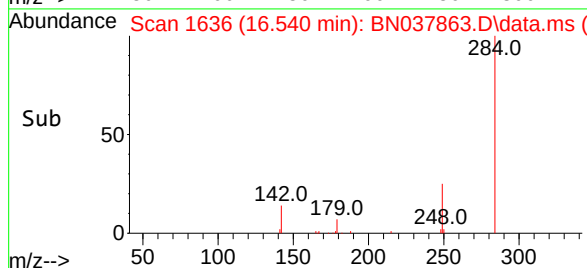
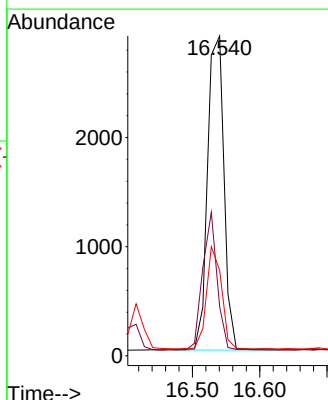
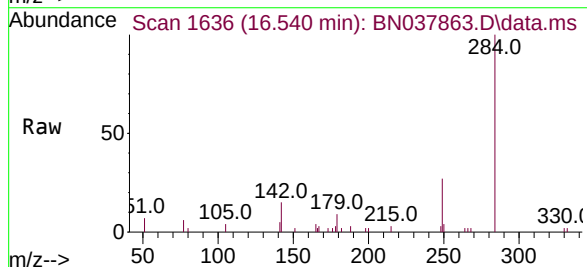
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

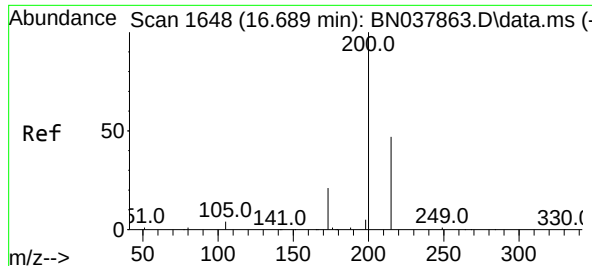
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.6	116.4
141	61.0	48.8	73.2



#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

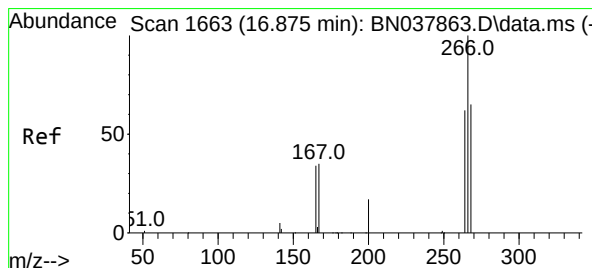
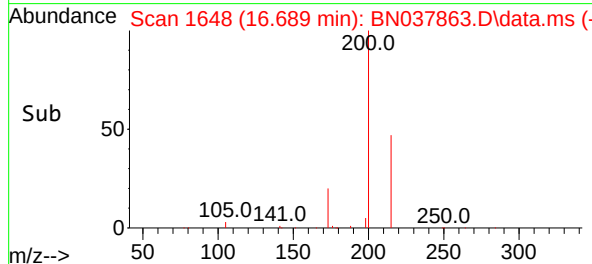
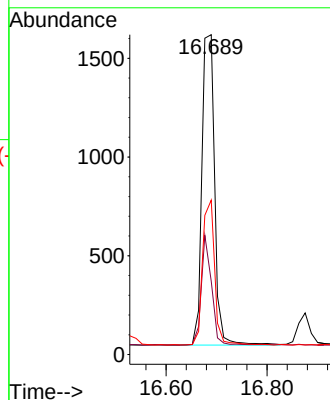
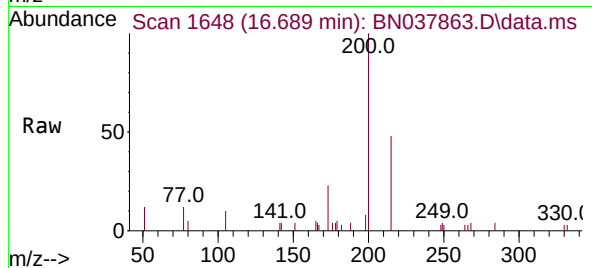




#23
Atrazine
Concen: 0.346 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

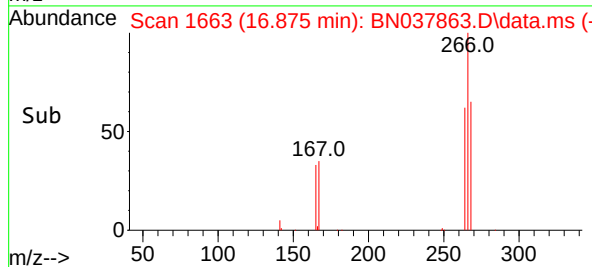
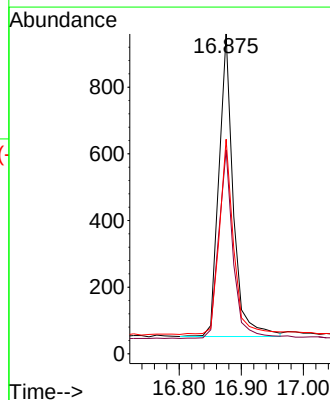
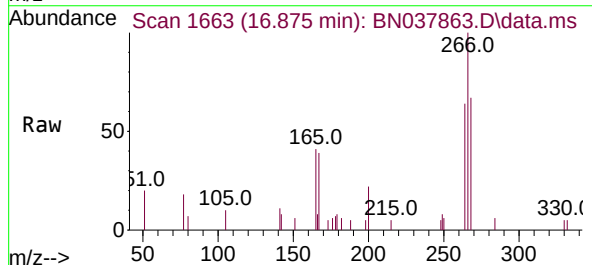
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

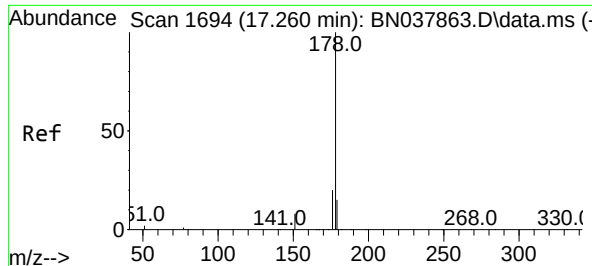
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.9	18.3	27.5
215	48.3	38.6	58.0



#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

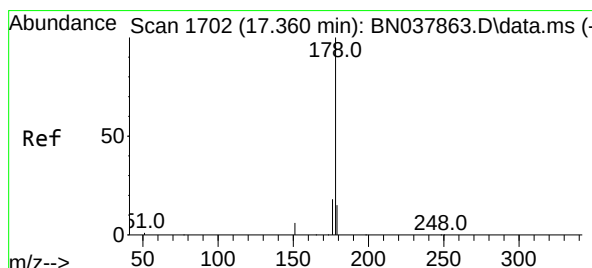
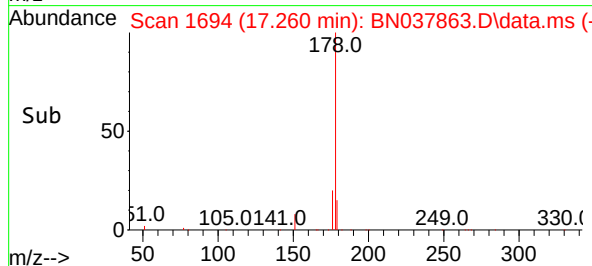
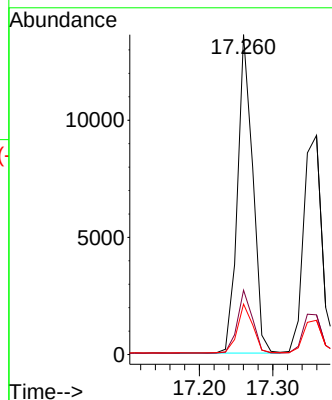
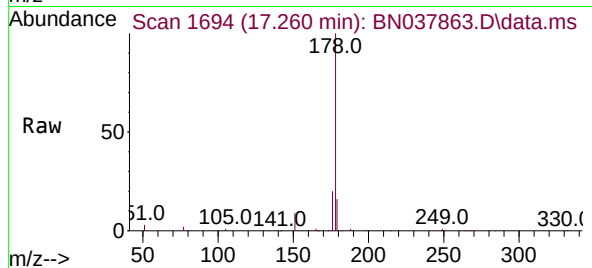
Tgt Ion:178 Resp: 19609

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

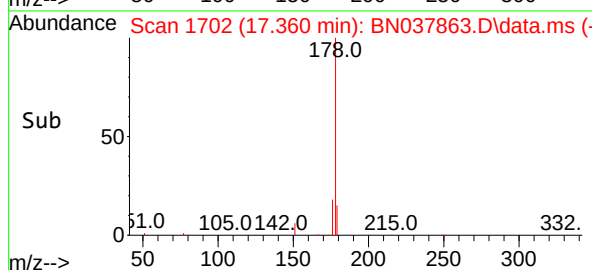
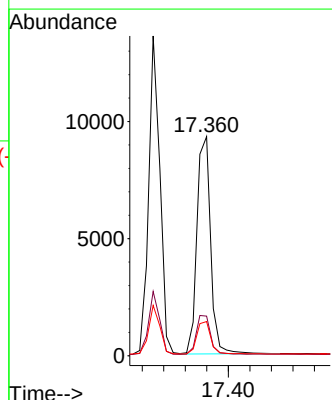
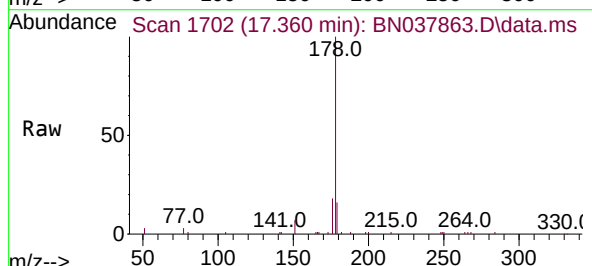
Tgt Ion:178 Resp: 16310

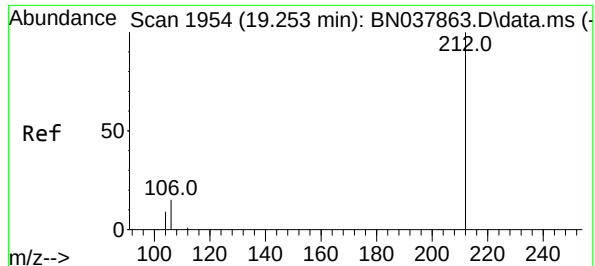
Ion Ratio Lower Upper

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

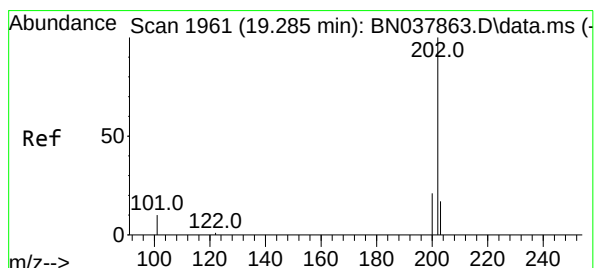
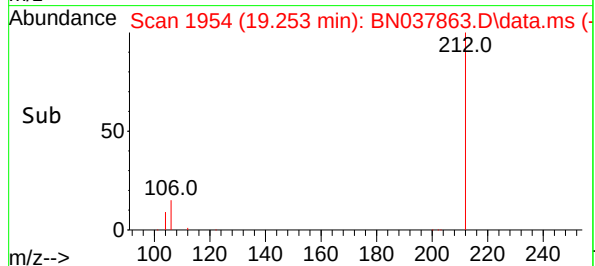
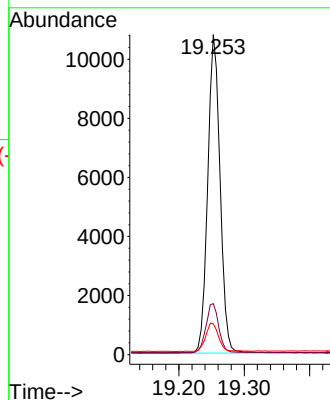
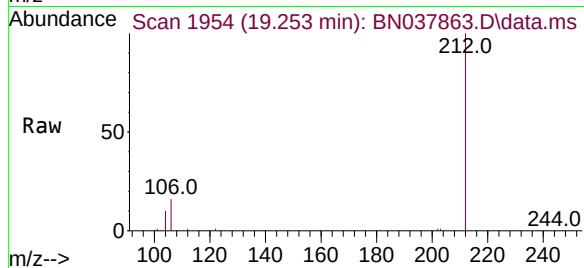
Tgt Ion:212 Resp: 14130

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

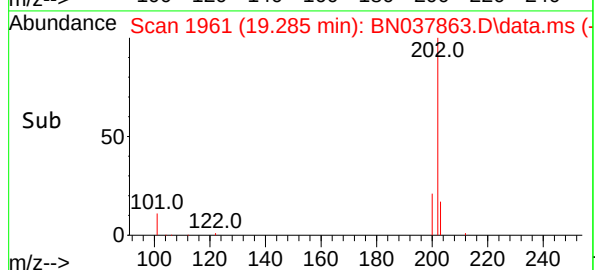
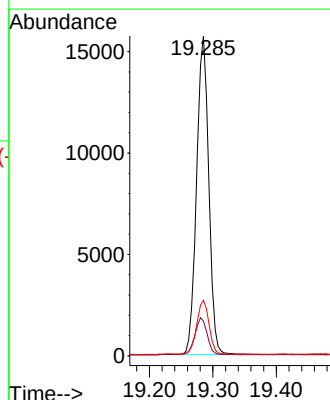
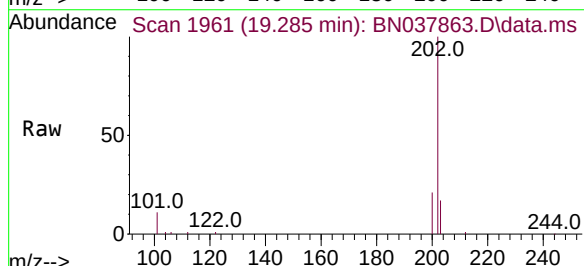
Tgt Ion:202 Resp: 20902

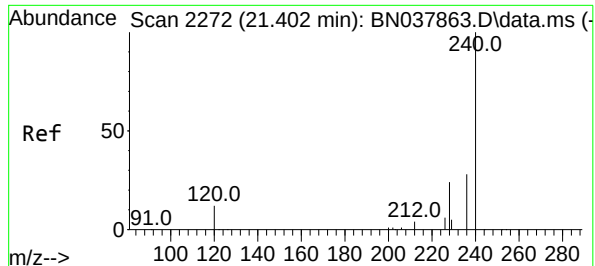
Ion Ratio Lower Upper

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

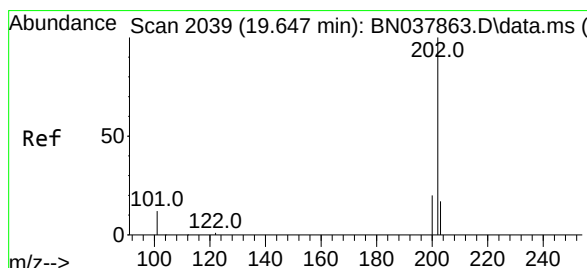
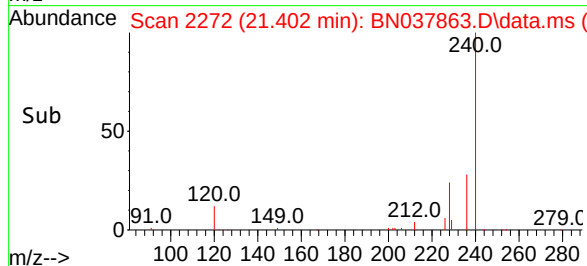
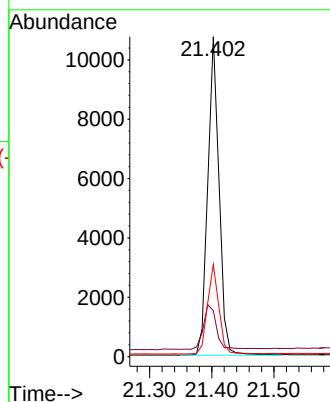
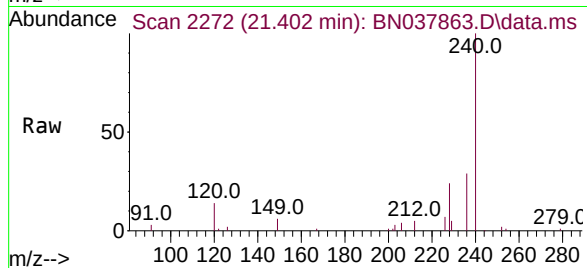
Tgt Ion:240 Resp: 13579

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

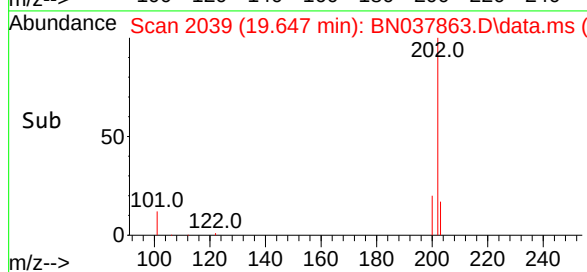
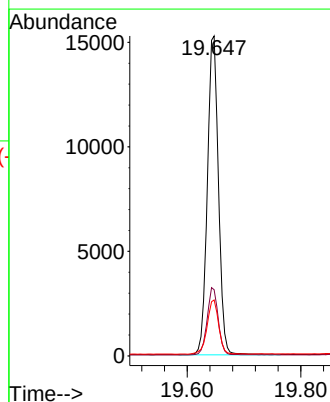
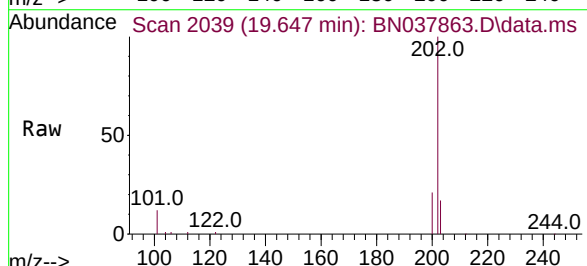
Tgt Ion:202 Resp: 20652

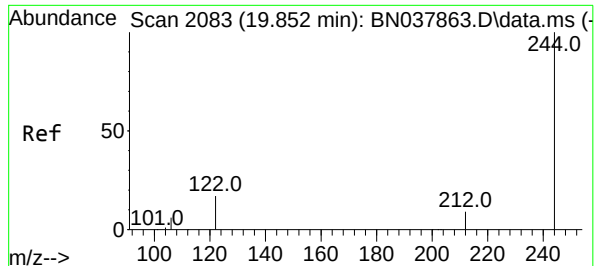
Ion Ratio Lower Upper

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

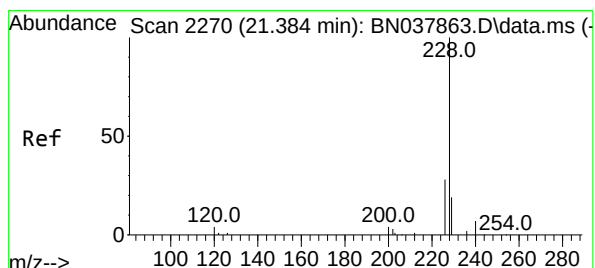
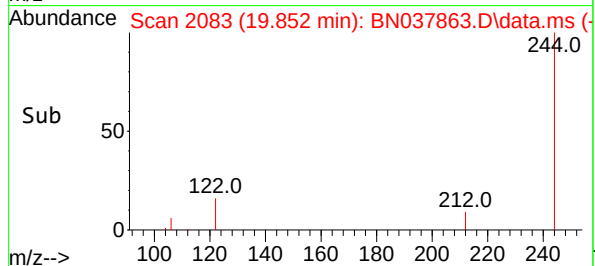
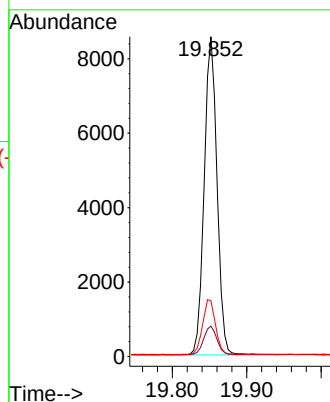
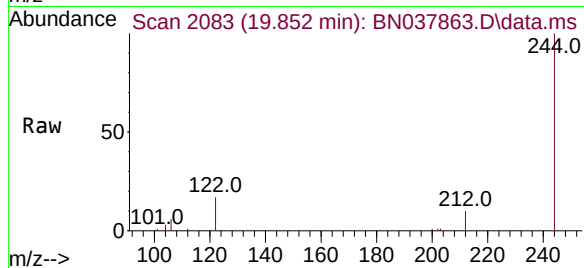
Tgt Ion:244 Resp: 10222

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

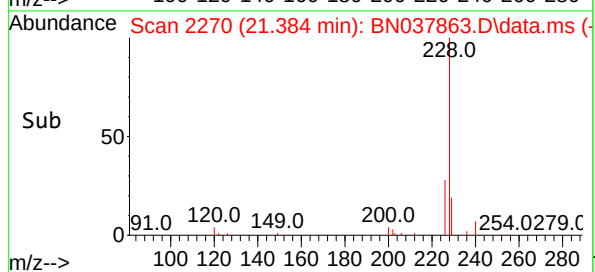
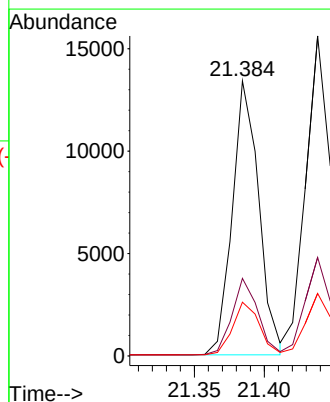
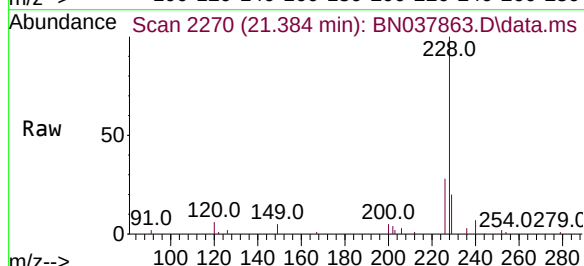
Tgt Ion:228 Resp: 17571

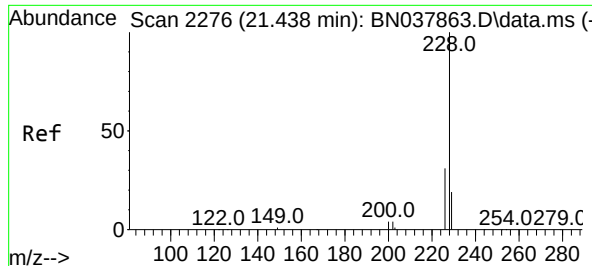
Ion Ratio Lower Upper

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

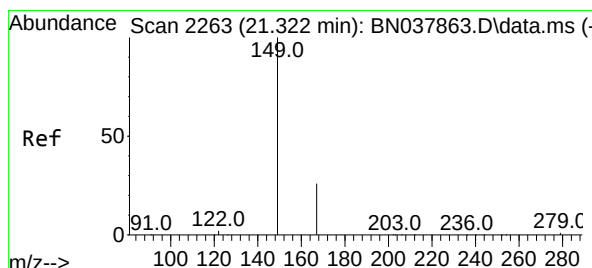
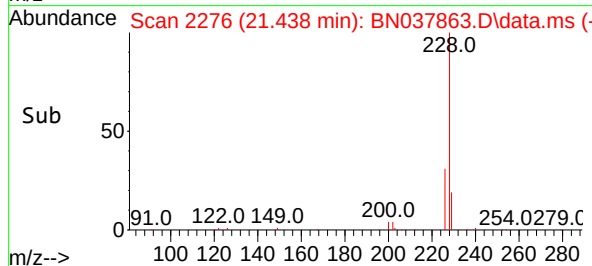
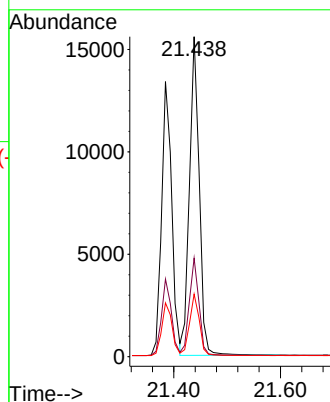
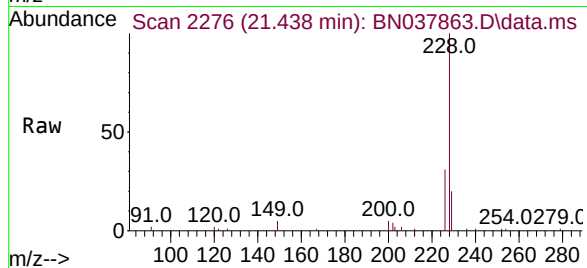
Tgt Ion:228 Resp: 19852

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

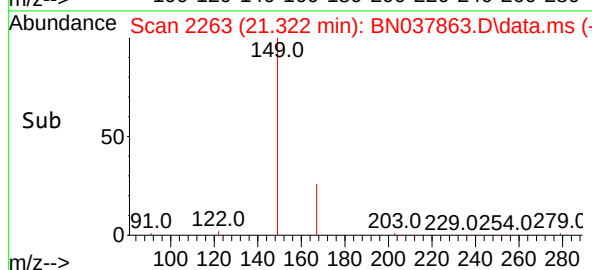
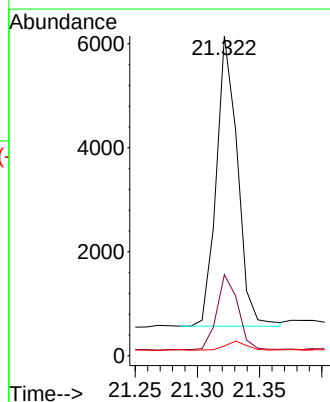
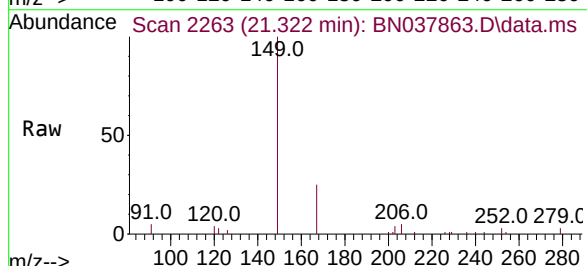
Tgt Ion:149 Resp: 6617

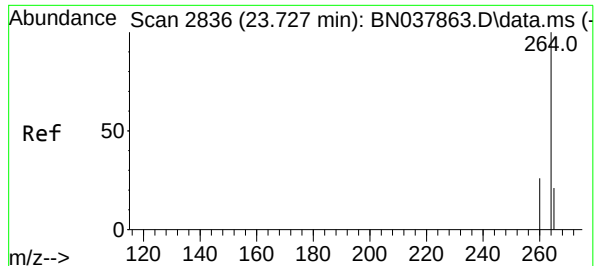
Ion Ratio Lower Upper

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

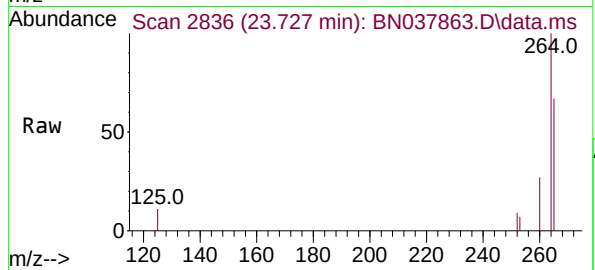
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



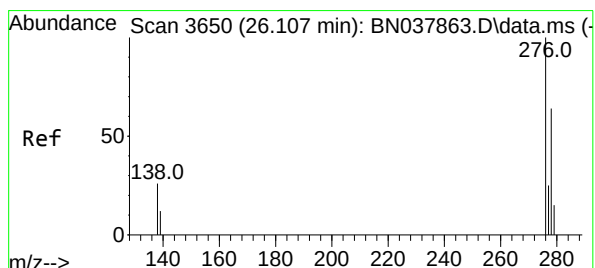
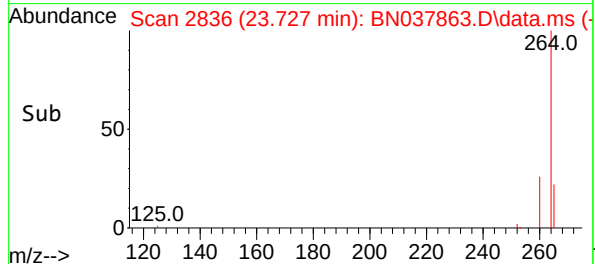
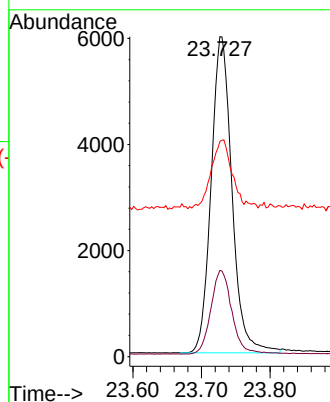
Tgt Ion:264 Resp: 12579

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

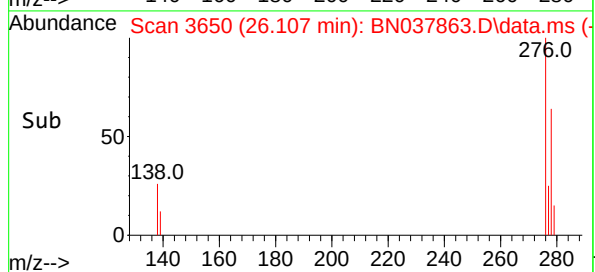
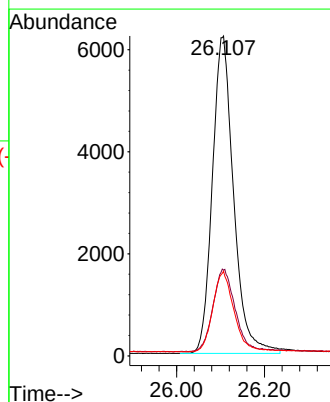
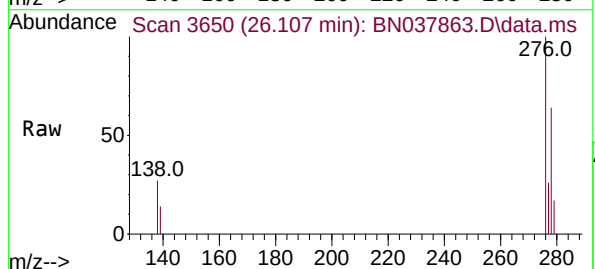
Tgt Ion:276 Resp: 20858

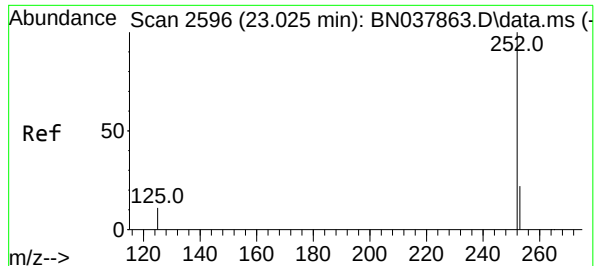
Ion Ratio Lower Upper

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

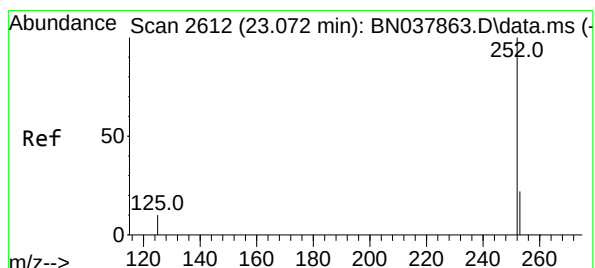
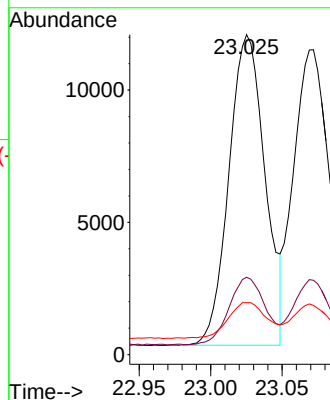
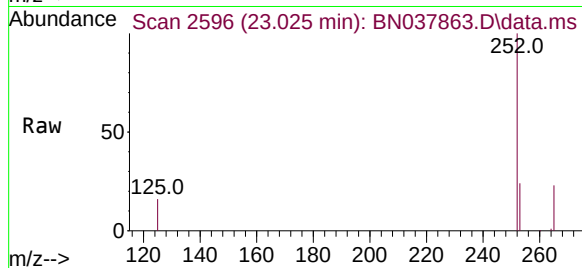
Tgt Ion:252 Resp: 20638

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

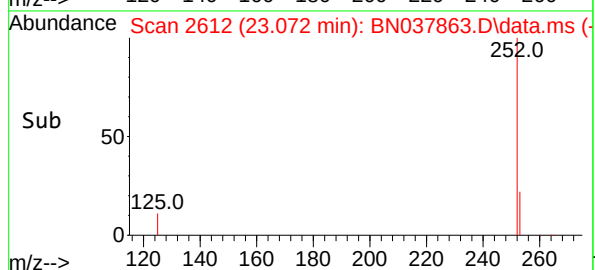
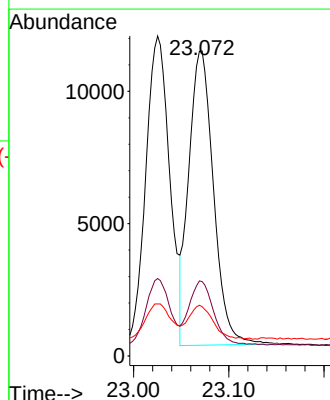
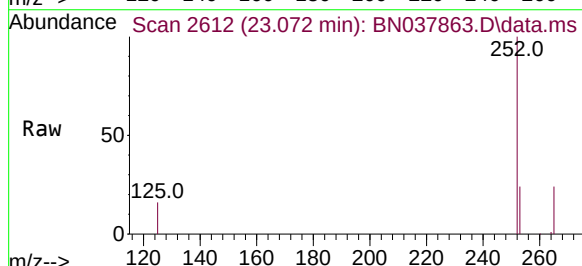
Tgt Ion:252 Resp: 20090

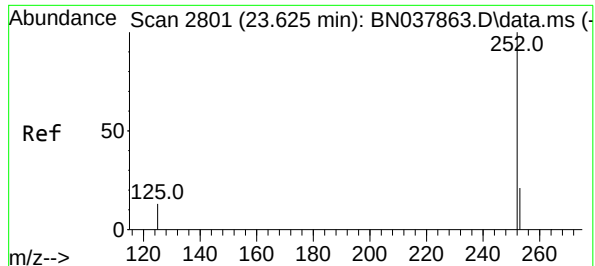
Ion Ratio Lower Upper

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

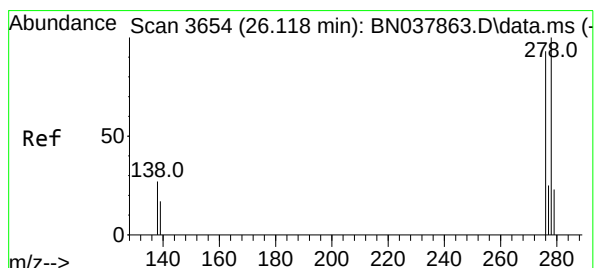
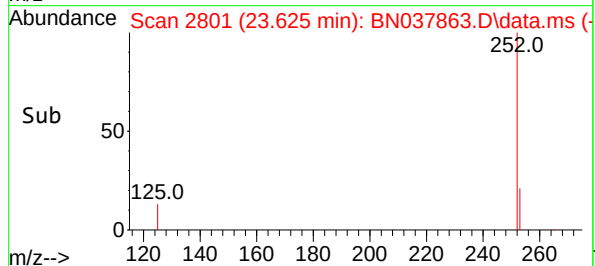
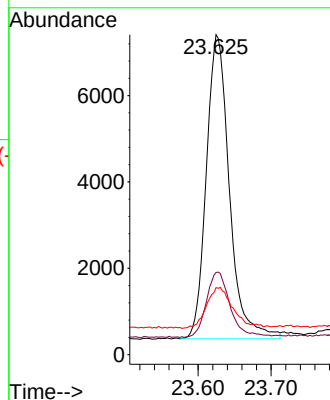
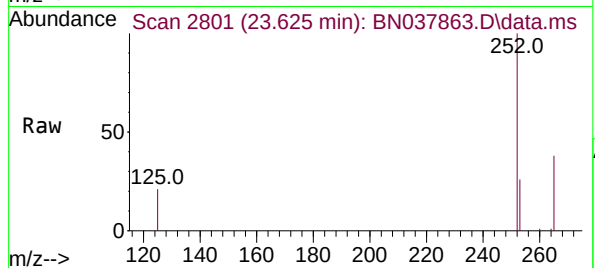
Tgt Ion:252 Resp: 15479

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

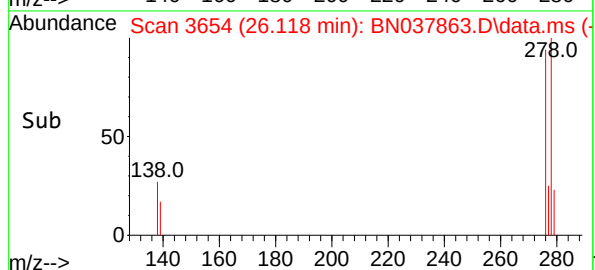
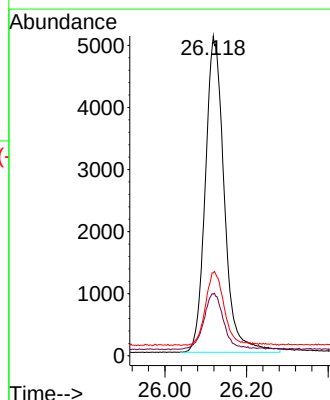
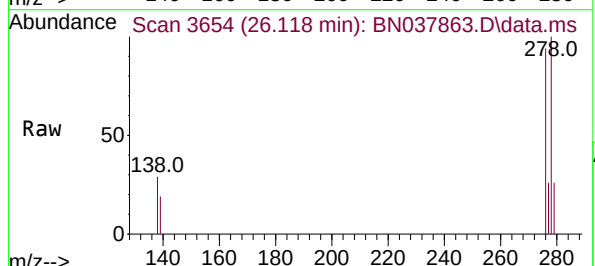
Tgt Ion:278 Resp: 16392

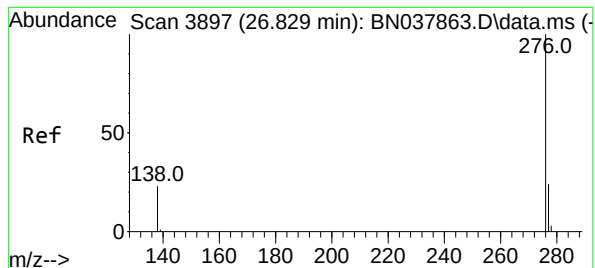
Ion Ratio Lower Upper

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

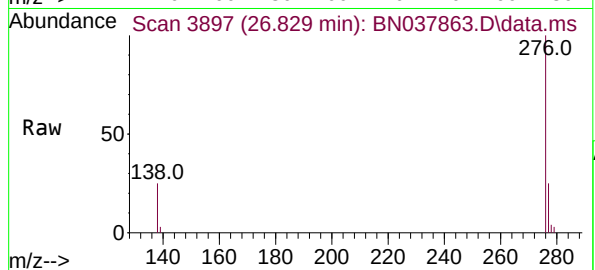
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



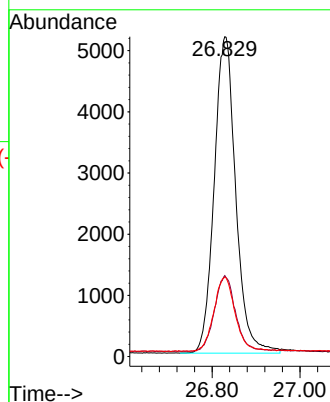
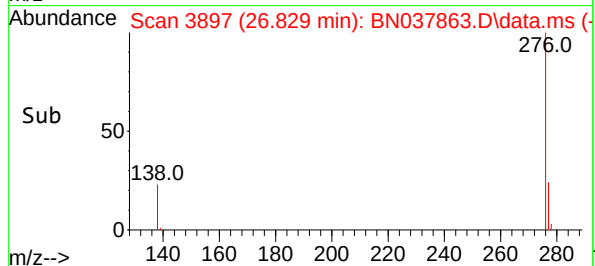
Tgt Ion:276 Resp: 17656

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

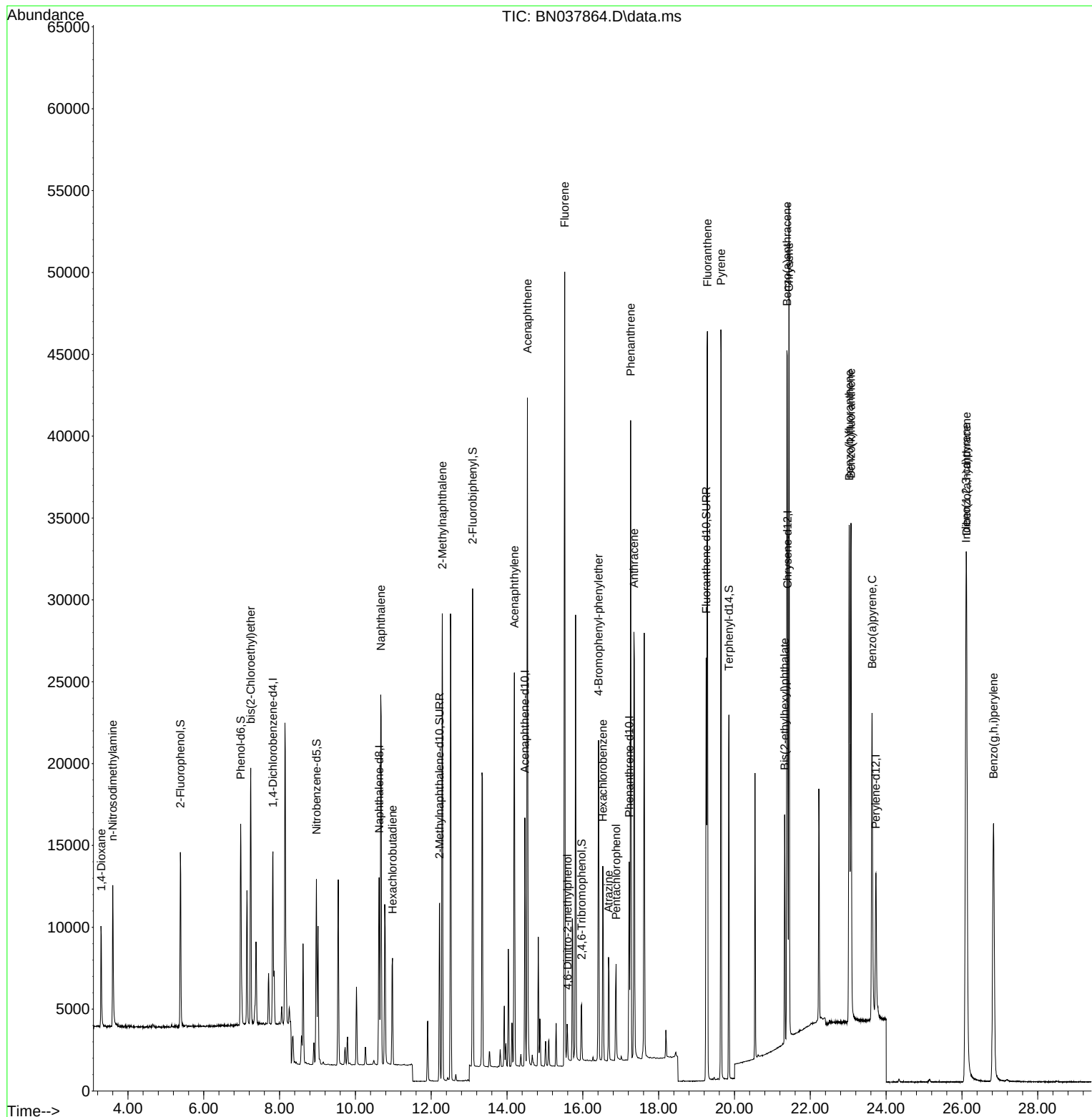
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng	0.00
29) Chrysene-d12	21.402	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						
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

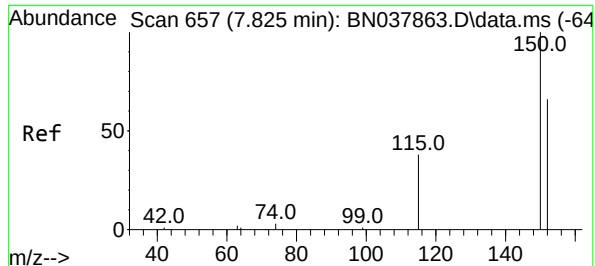
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

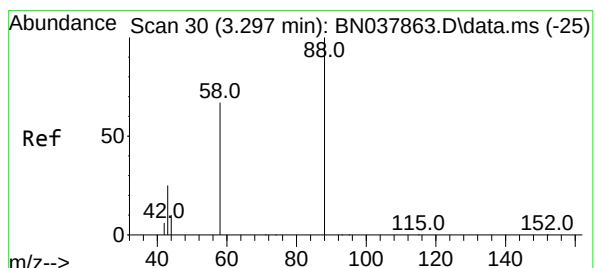
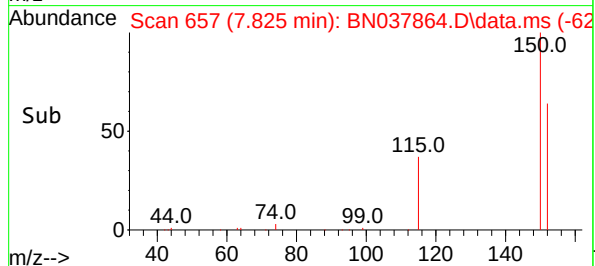
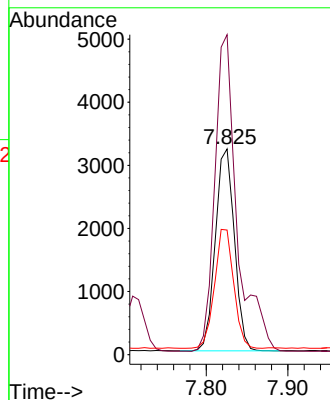
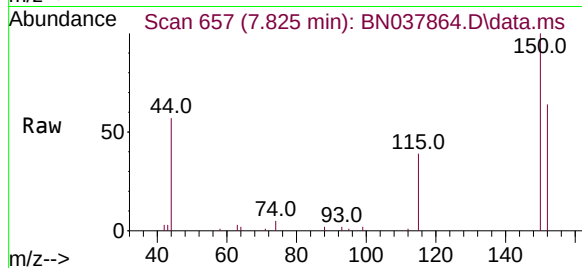




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

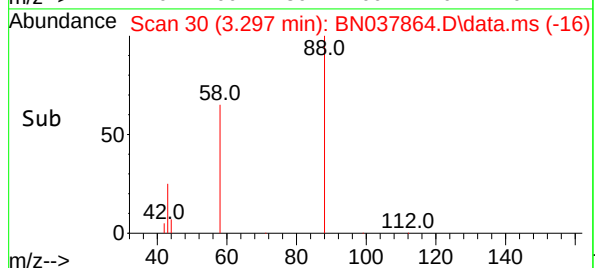
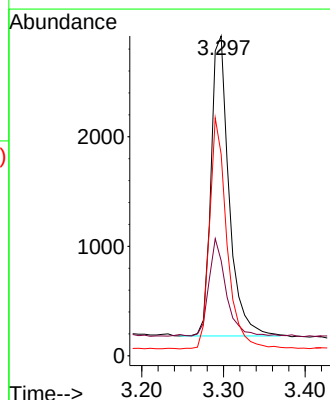
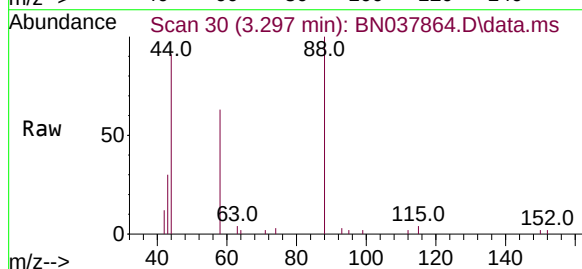
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

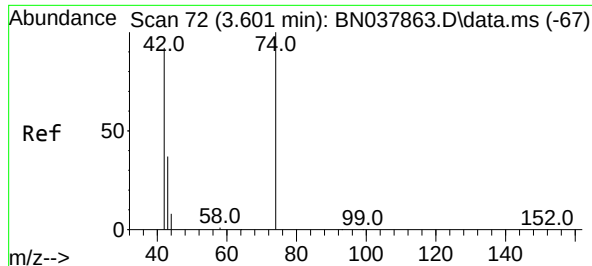
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.6 121.0 181.4
115 60.6 47.4 71.0



#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

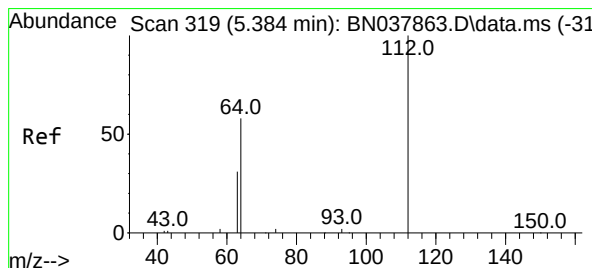
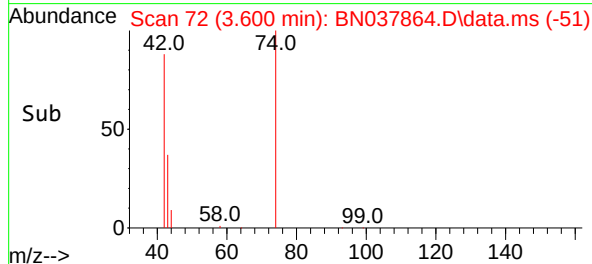
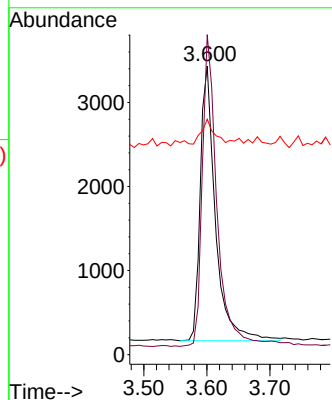
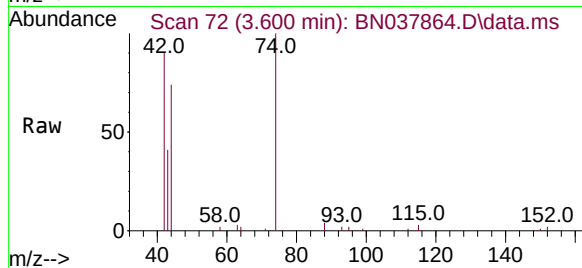




#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

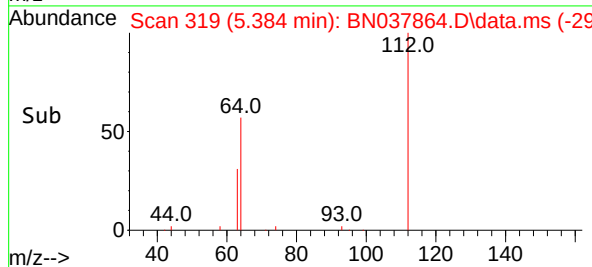
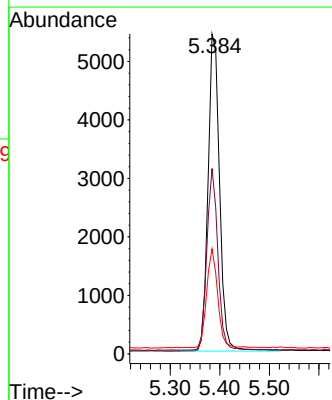
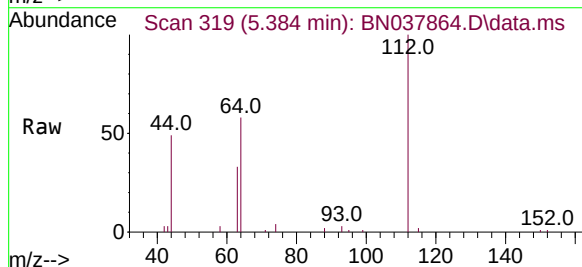
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

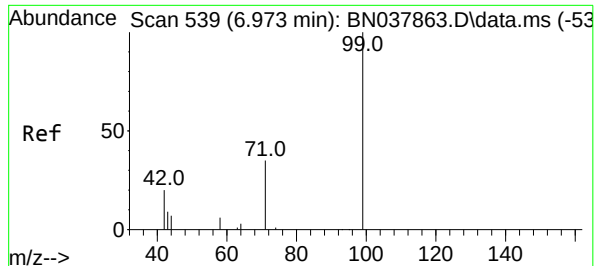
Tgt Ion: 42 Resp: 5472
Ion Ratio Lower Upper
42 100
74 111.5 93.4 140.0
44 7.3 22.2 33.4#



#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

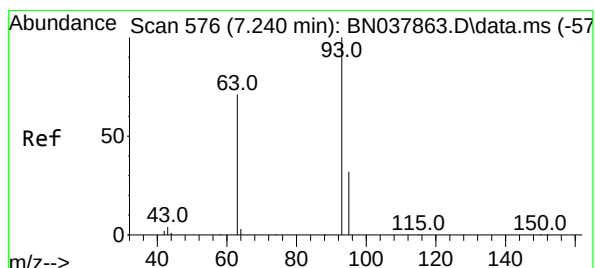
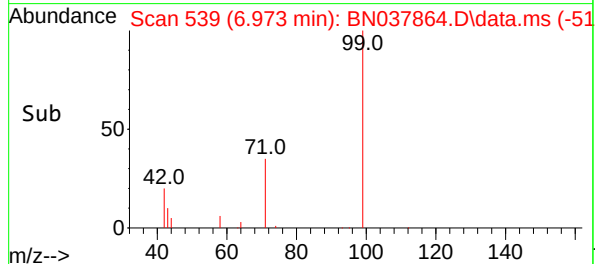
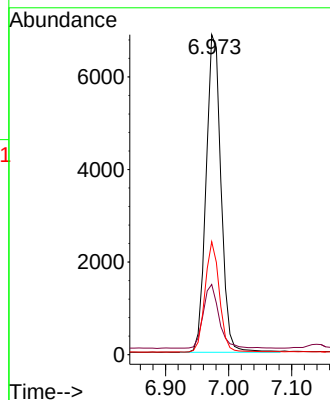
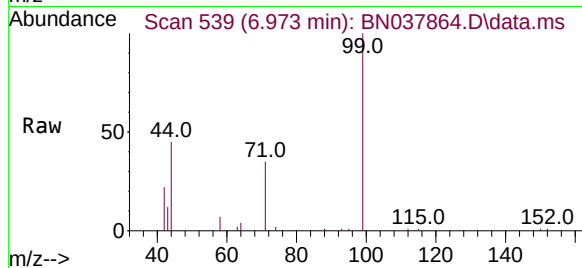




#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

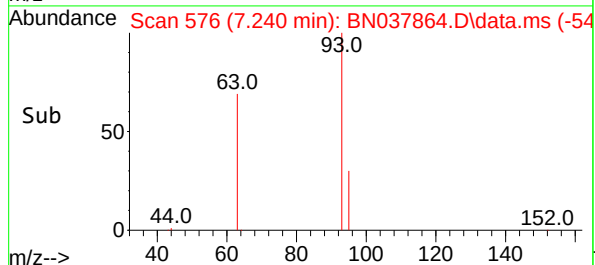
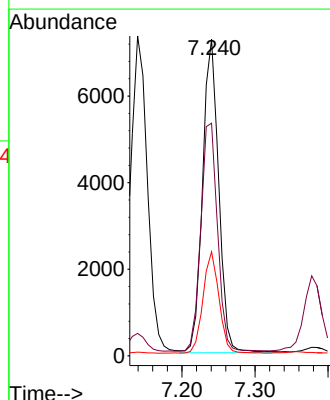
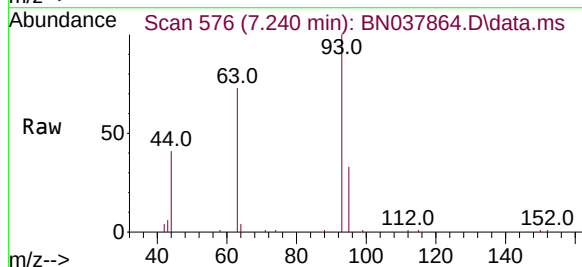
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

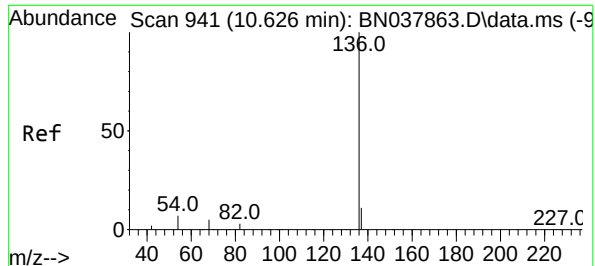
Tgt Ion:	99	Resp:	11319
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#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

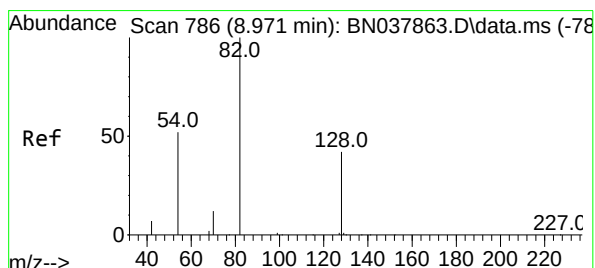
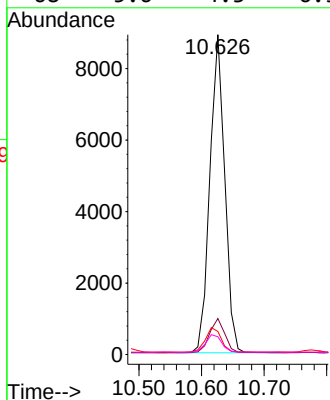
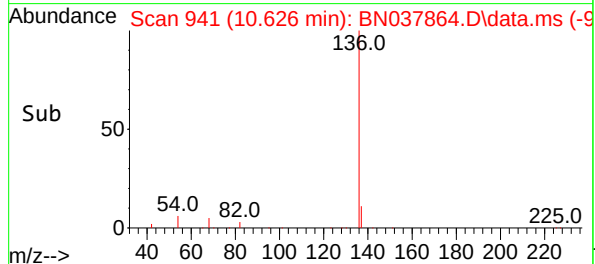
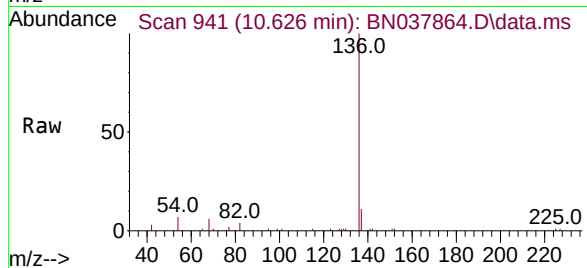




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

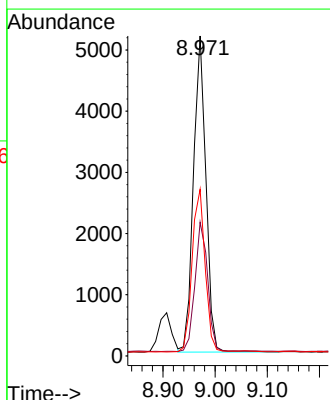
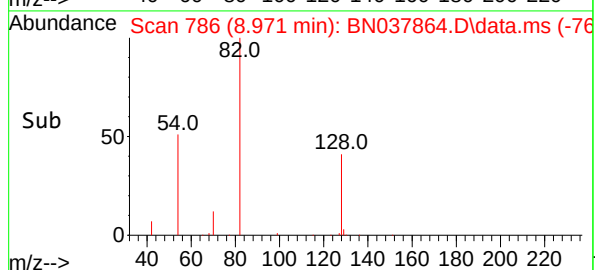
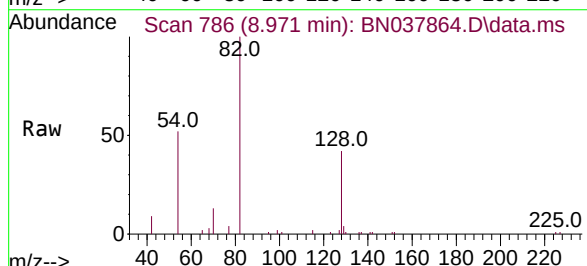
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

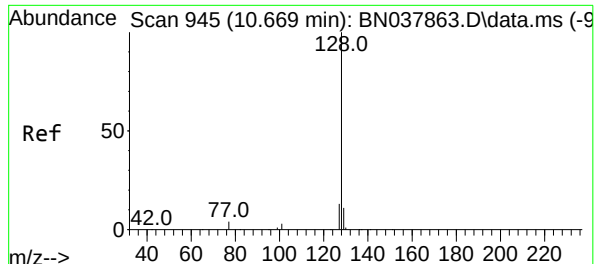
Tgt Ion:	136	Resp:	14715
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#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

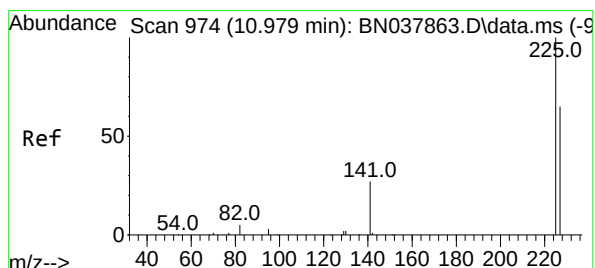
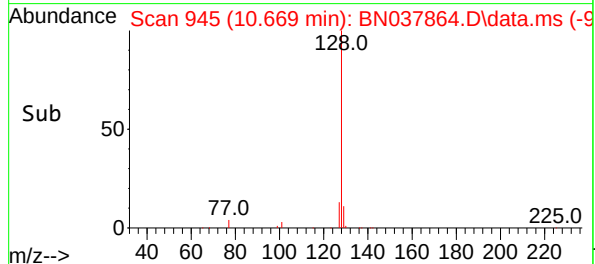
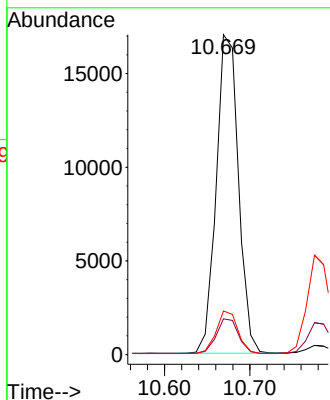
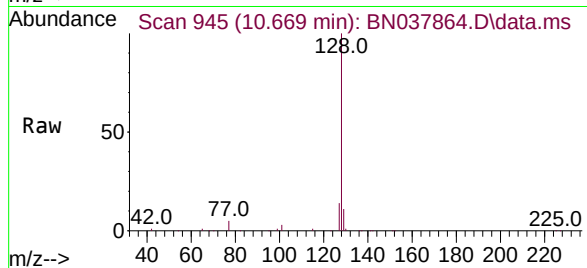




#9
Naphthalene
Concen: 0.763 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

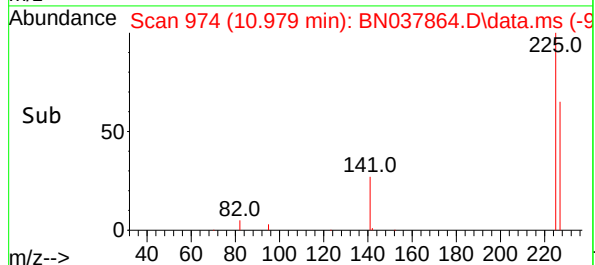
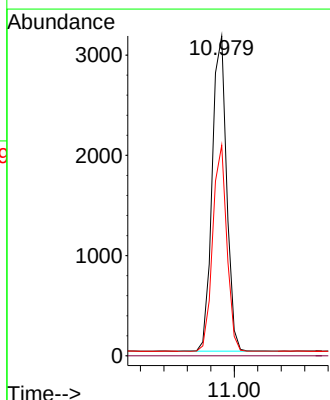
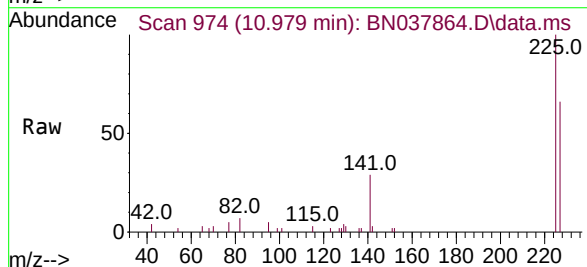
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

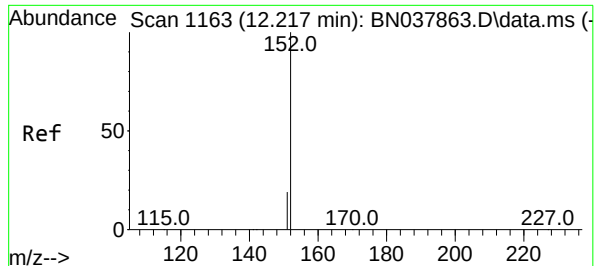
Tgt Ion:128 Resp: 30935
Ion Ratio Lower Upper
128 100
129 11.2 9.2 13.8
127 13.6 11.0 16.6



#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

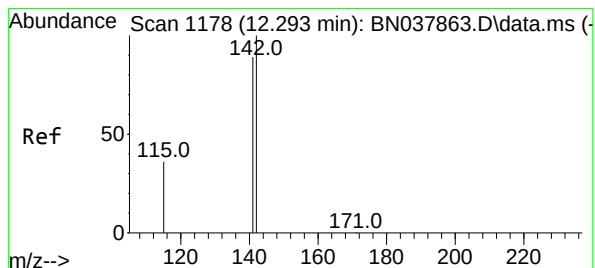
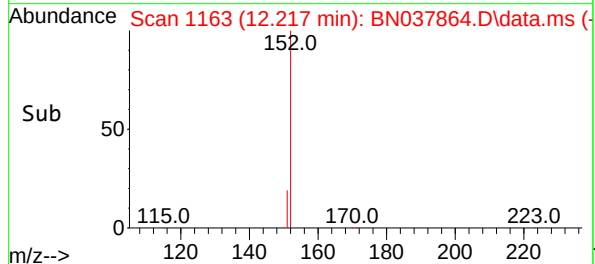
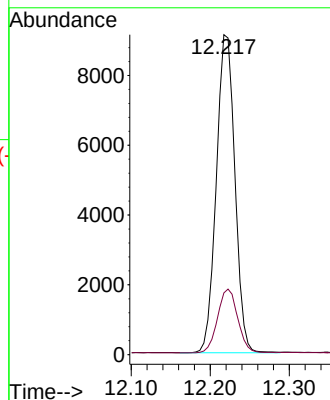
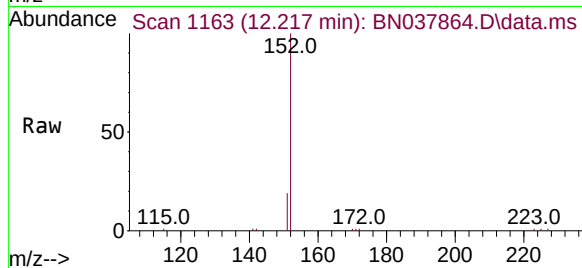




#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

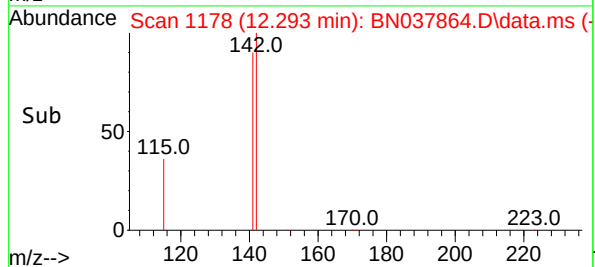
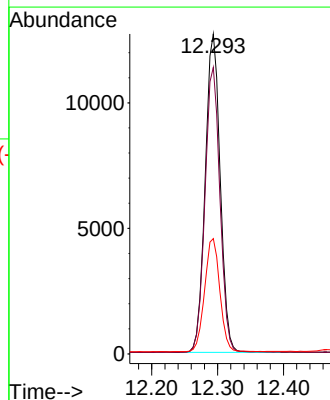
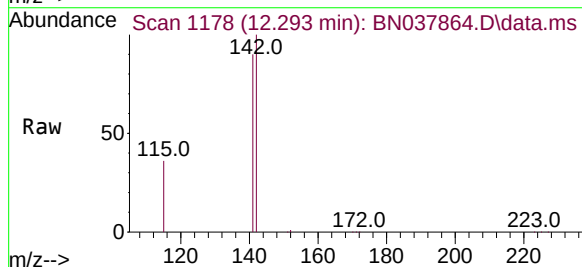
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

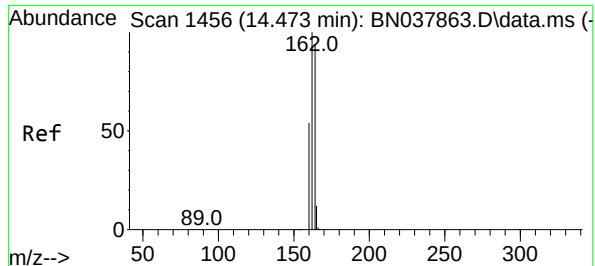
Tgt Ion:152 Resp: 14822
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#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

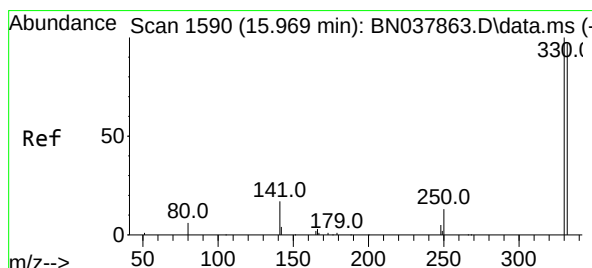
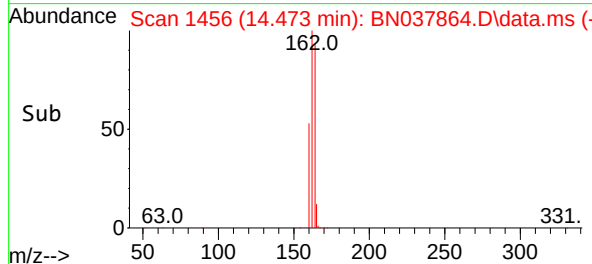
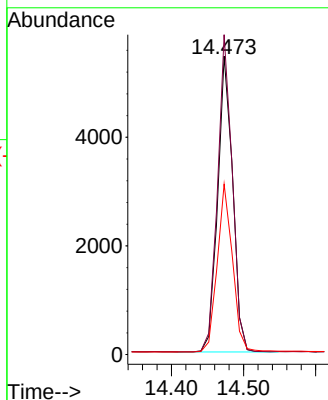
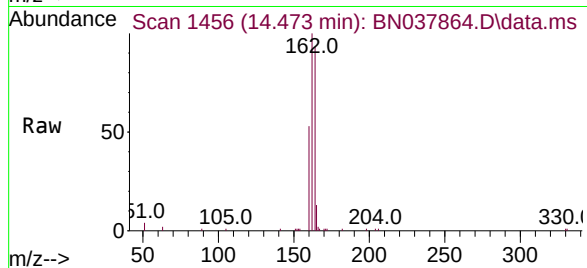




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

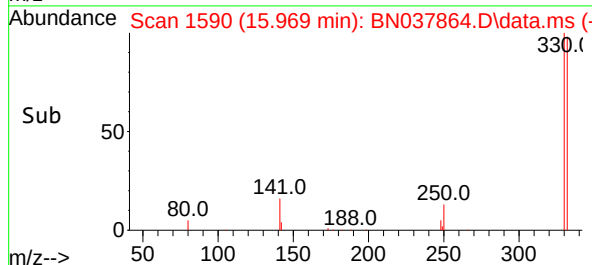
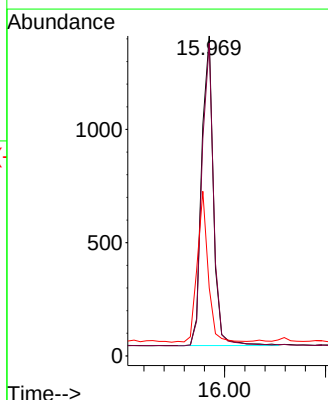
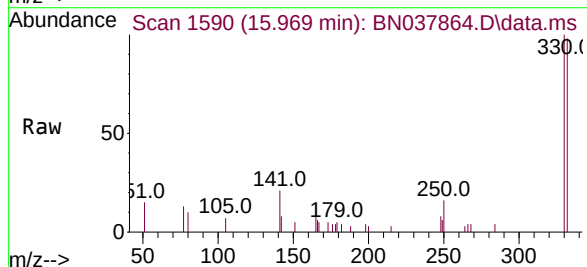
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

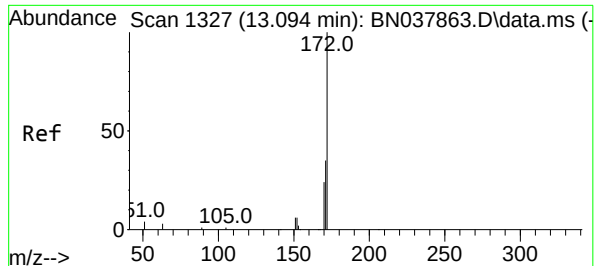
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.8	127.2
160	57.1	46.1	69.1



#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

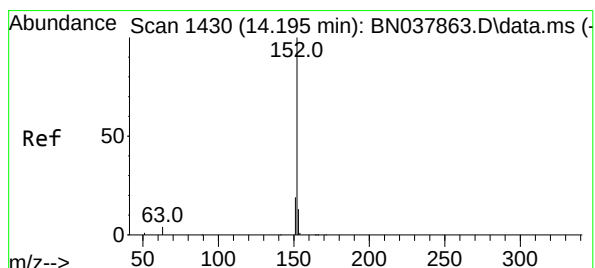
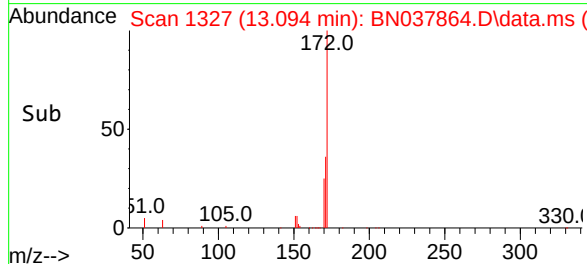
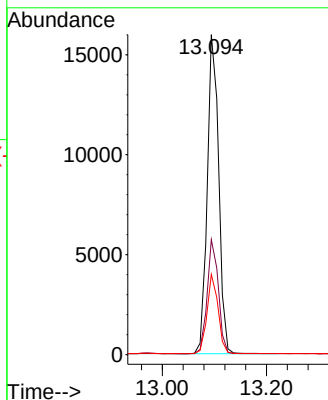
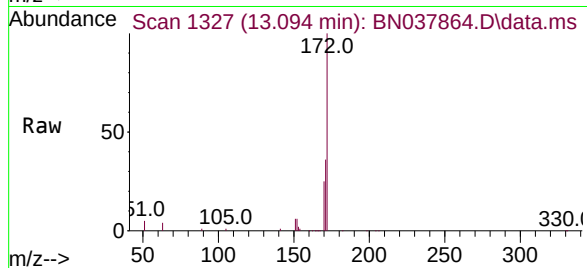
Tgt Ion:172 Resp: 24413

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

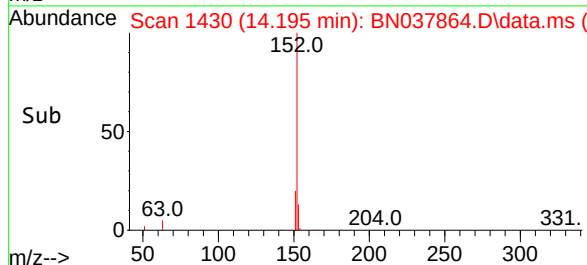
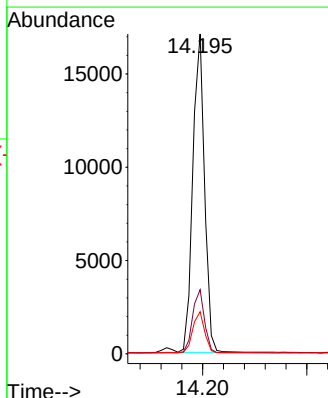
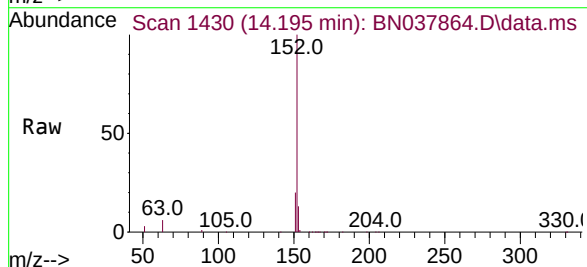
Tgt Ion:152 Resp: 26510

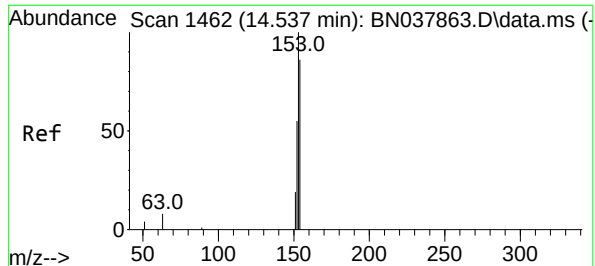
Ion Ratio Lower Upper

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

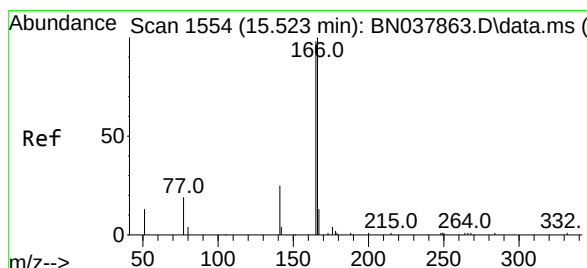
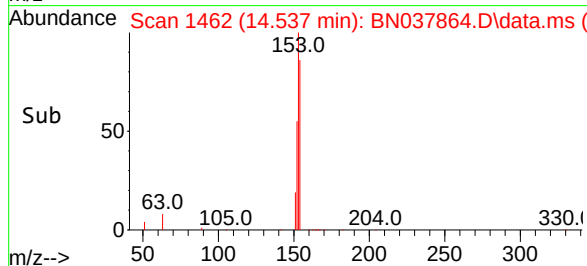
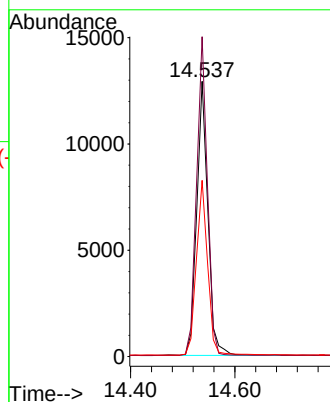
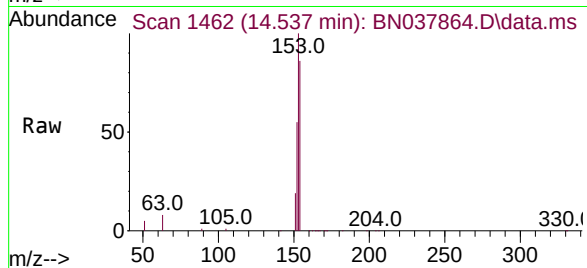
Tgt Ion:154 Resp: 19057

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

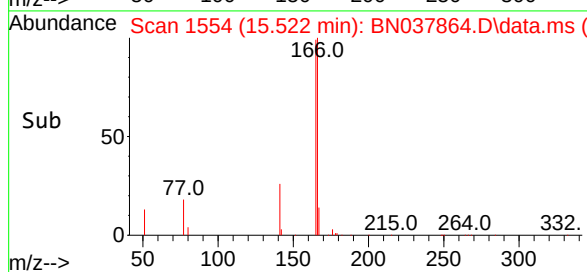
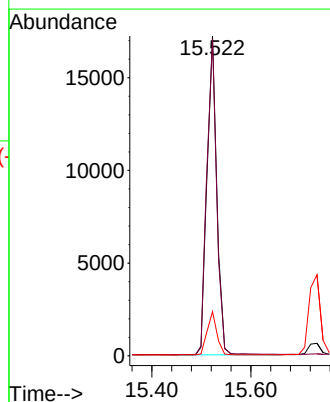
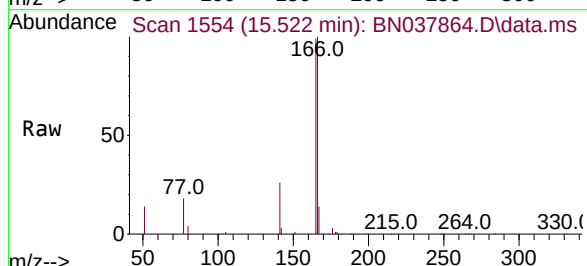
Tgt Ion:166 Resp: 23130

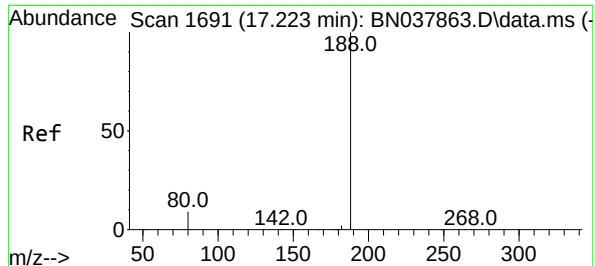
Ion Ratio Lower Upper

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

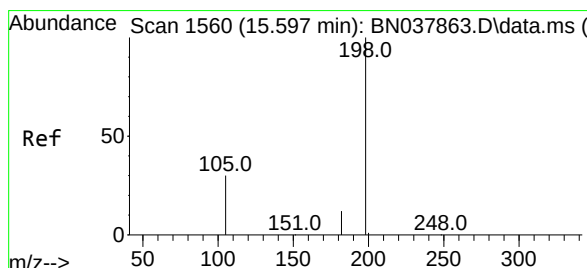
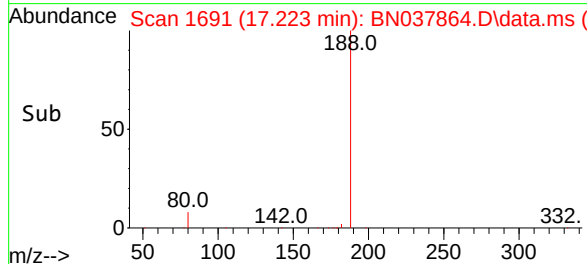
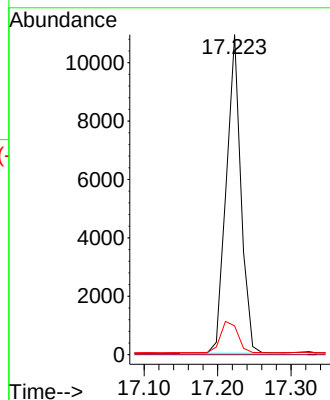
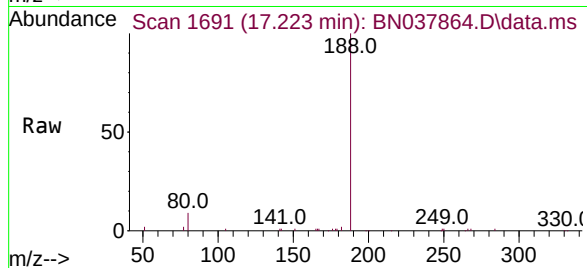
Tgt Ion:188 Resp: 15207

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

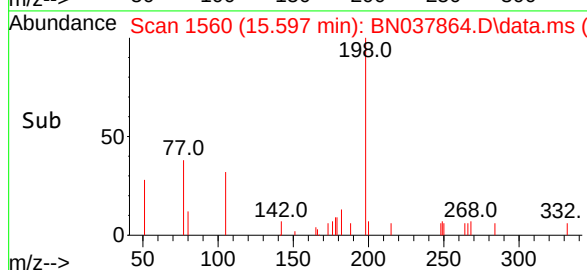
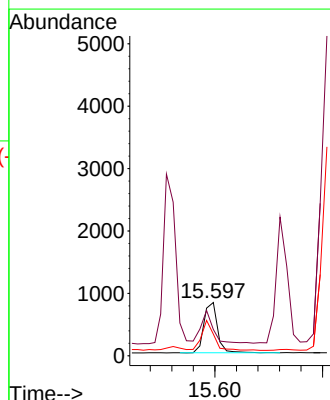
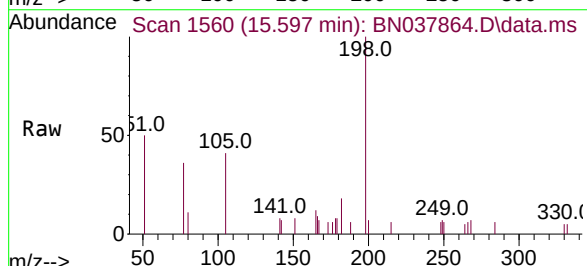
Tgt Ion:198 Resp: 1414

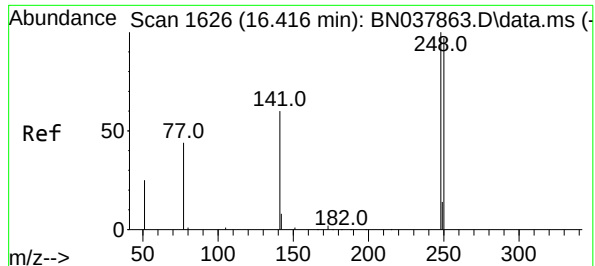
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

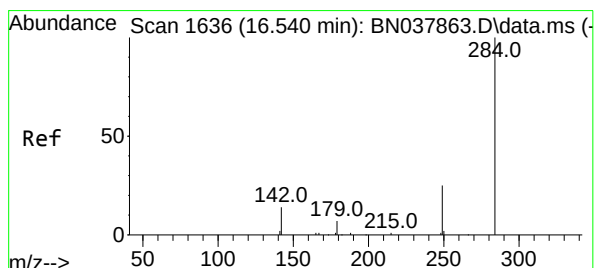
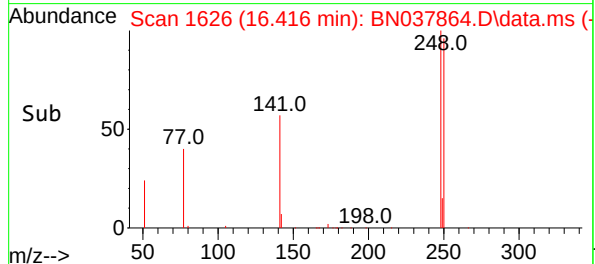
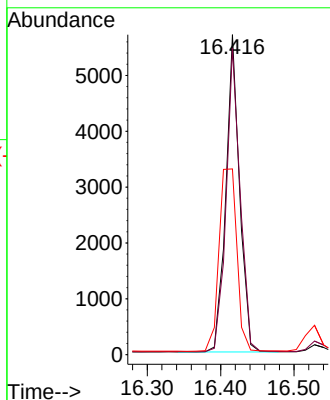
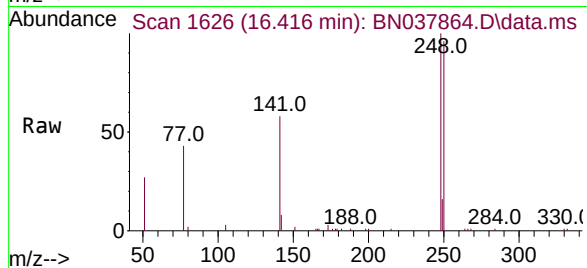




#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

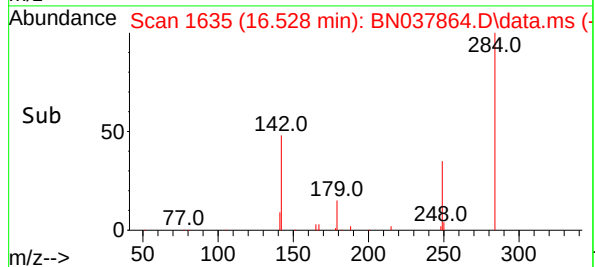
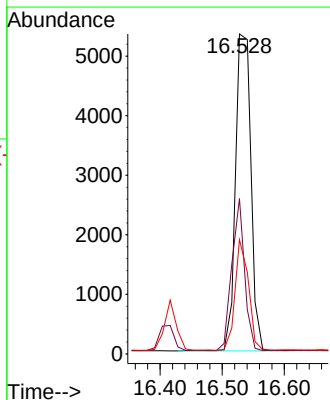
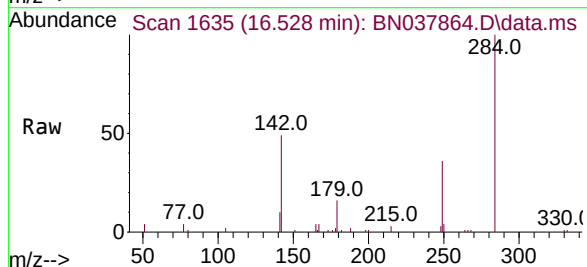
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

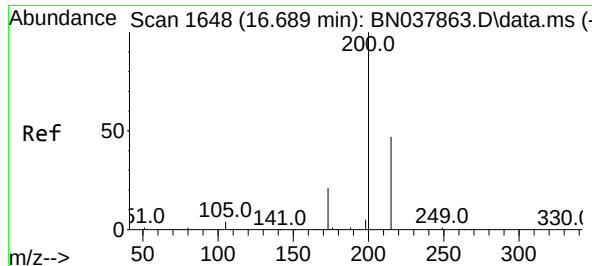
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2



#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

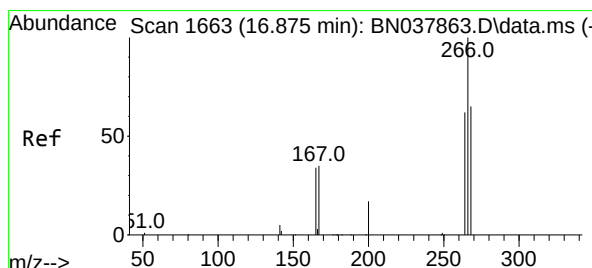
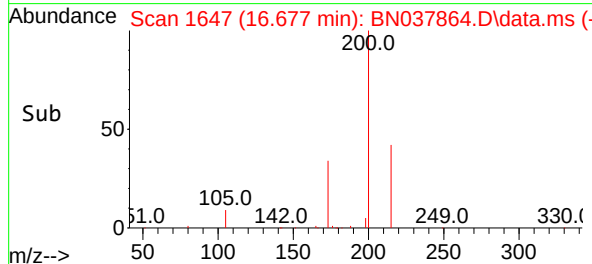
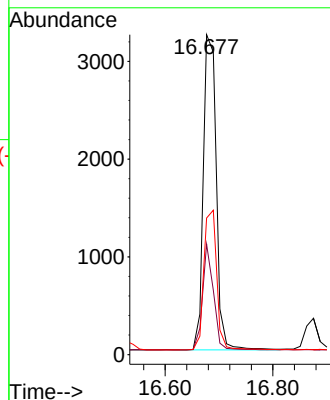
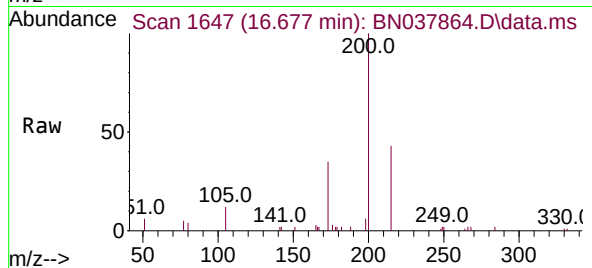




#23
Atrazine
Concen: 0.716 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

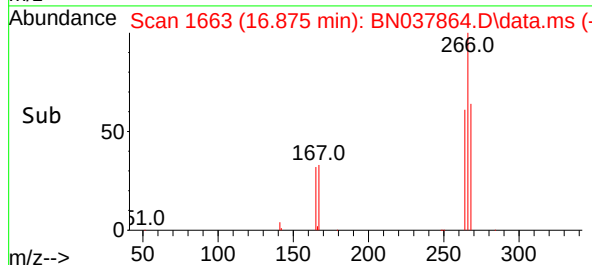
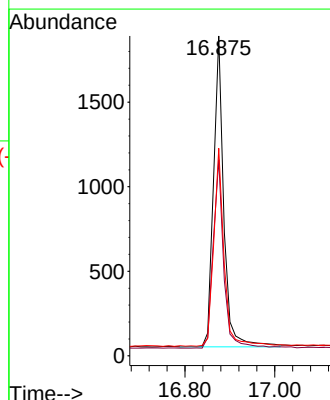
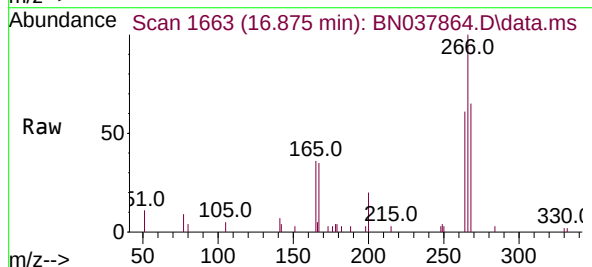
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

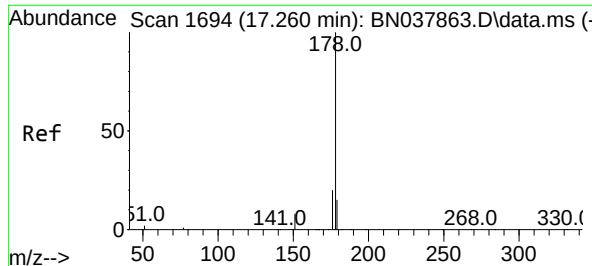
Tgt Ion:200 Resp: 5405
Ion Ratio Lower Upper
200 100
173 34.5 18.3 27.5#
215 42.7 38.6 58.0



#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

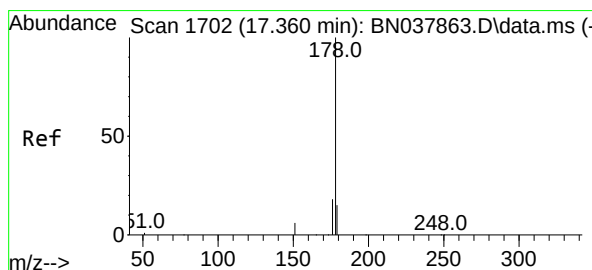
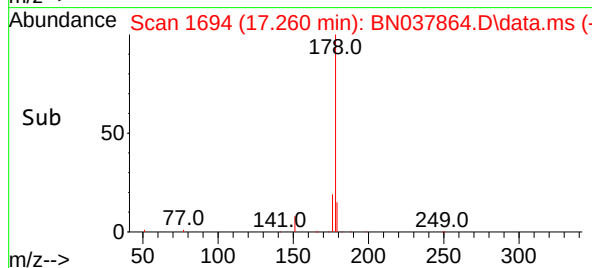
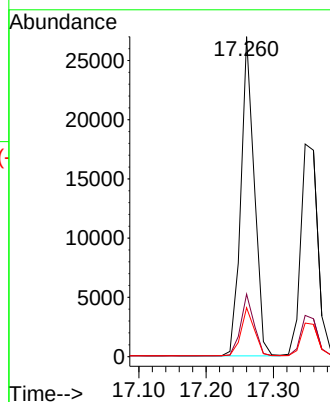
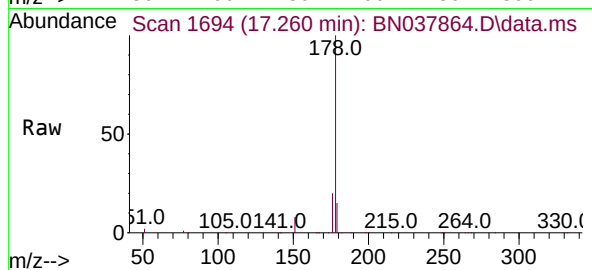
Tgt Ion:178 Resp: 37218

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

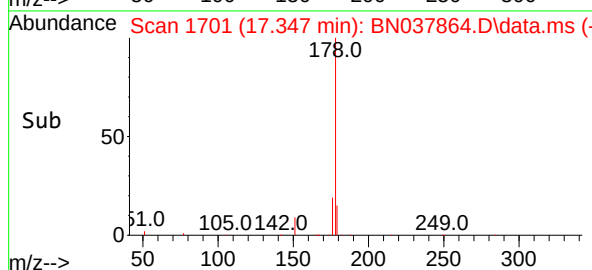
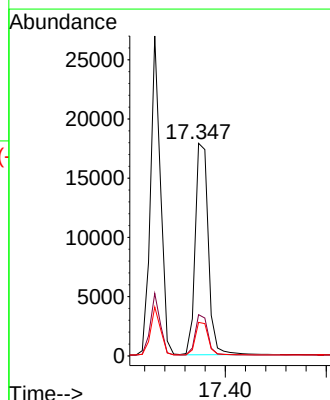
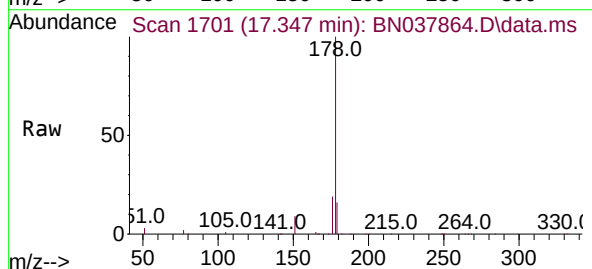
Tgt Ion:178 Resp: 32138

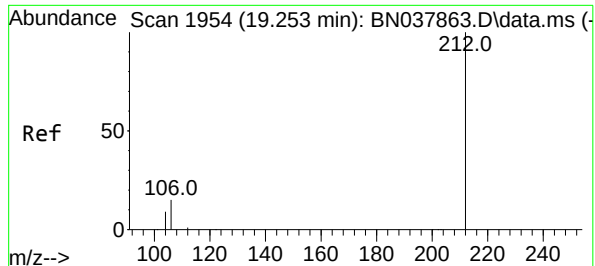
Ion Ratio Lower Upper

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

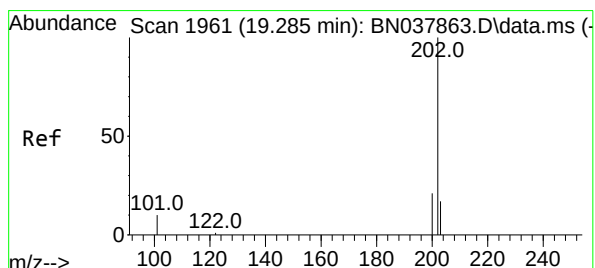
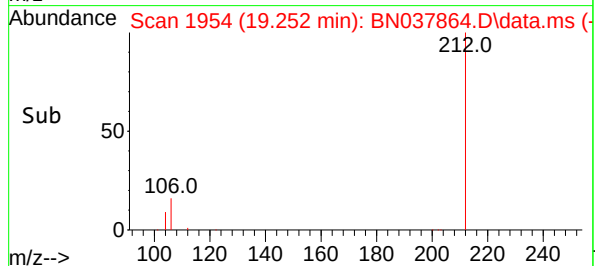
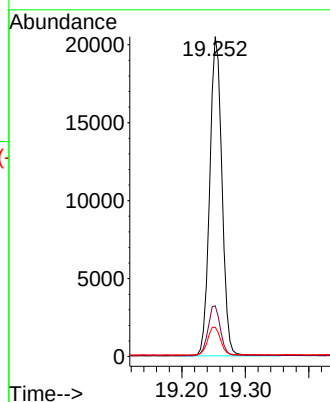
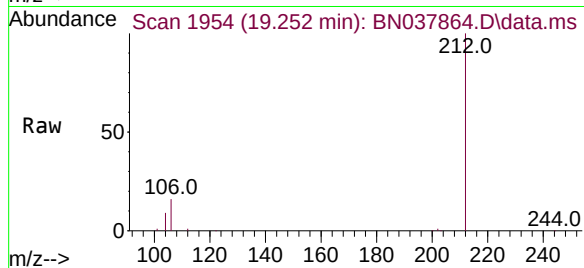
Tgt Ion:212 Resp: 27365

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

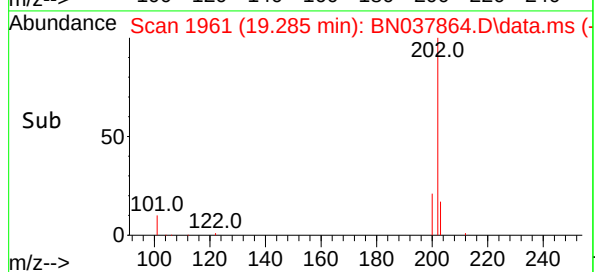
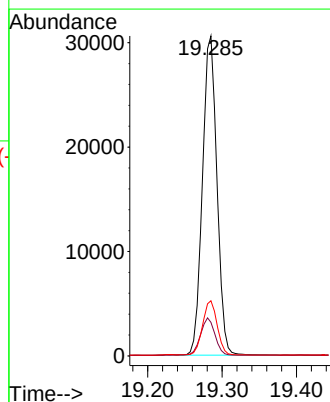
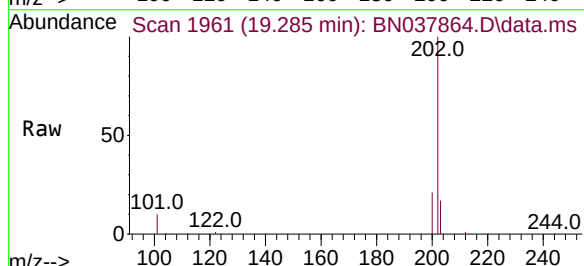
Tgt Ion:202 Resp: 41292

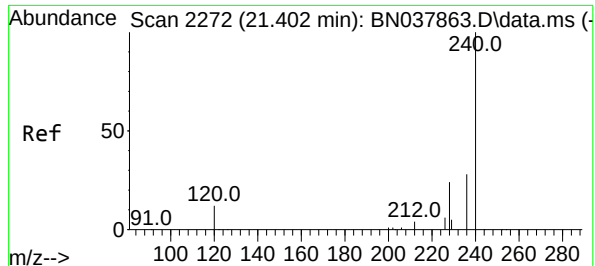
Ion Ratio Lower Upper

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

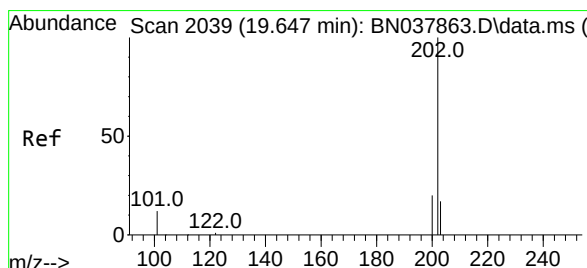
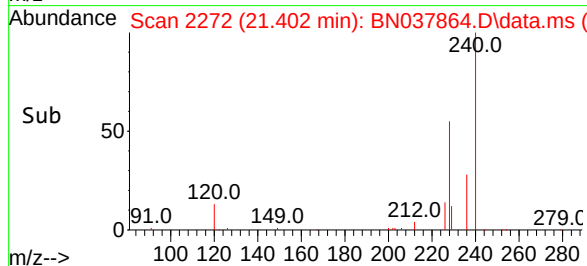
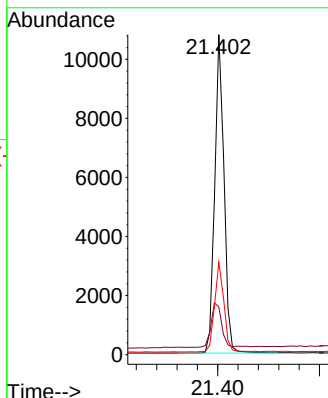
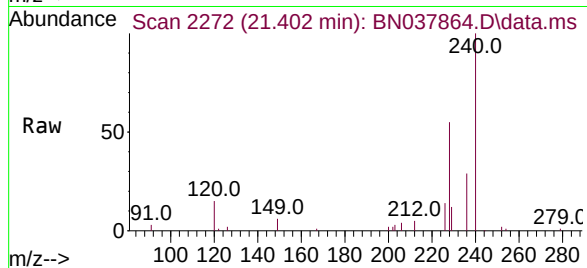
Tgt Ion:240 Resp: 13674

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

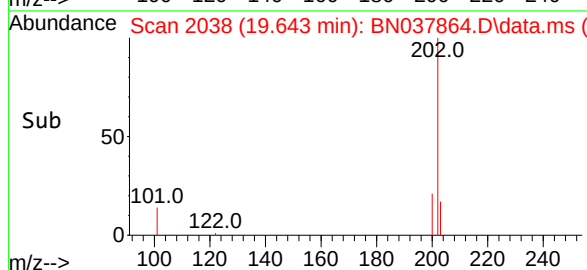
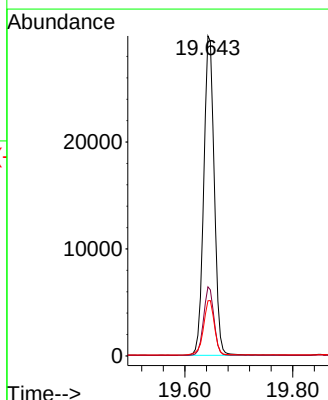
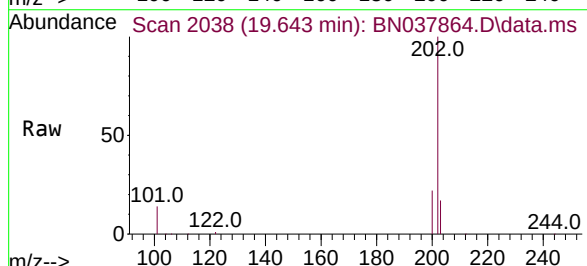
Tgt Ion:202 Resp: 40377

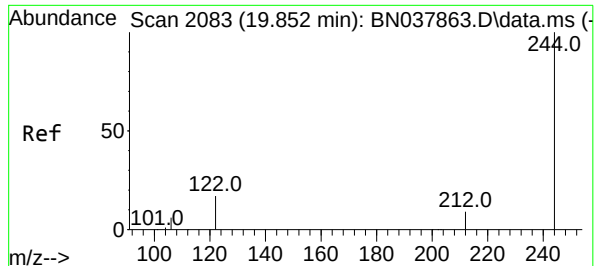
Ion Ratio Lower Upper

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

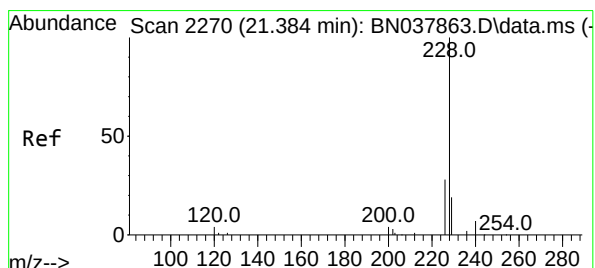
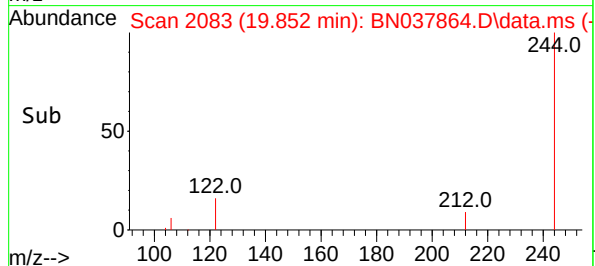
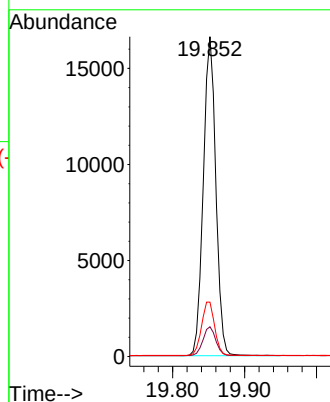
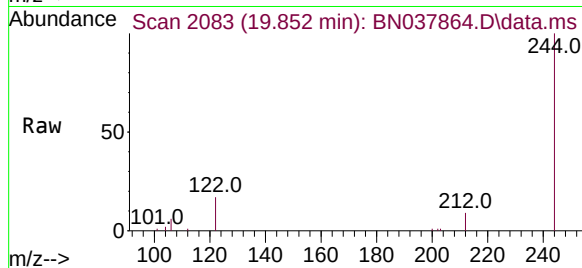
Tgt Ion:244 Resp: 20095

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

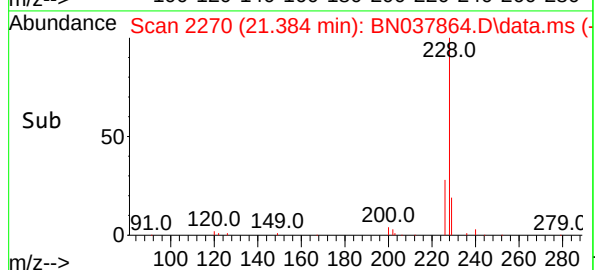
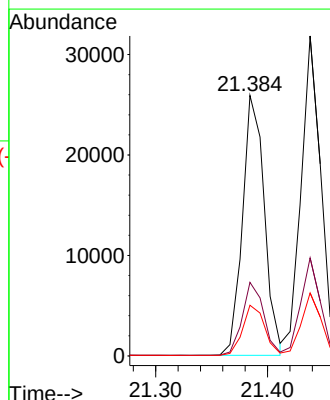
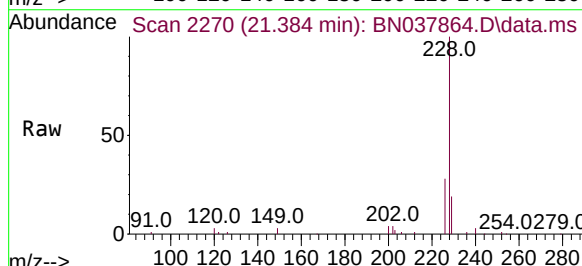
Tgt Ion:228 Resp: 35130

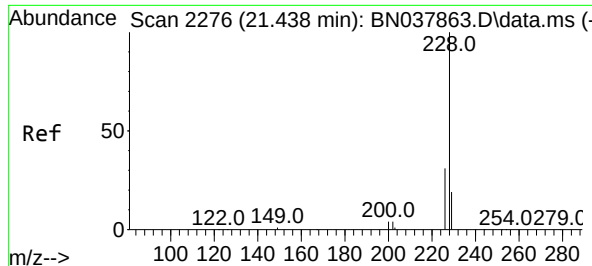
Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 19.5 15.6 23.4

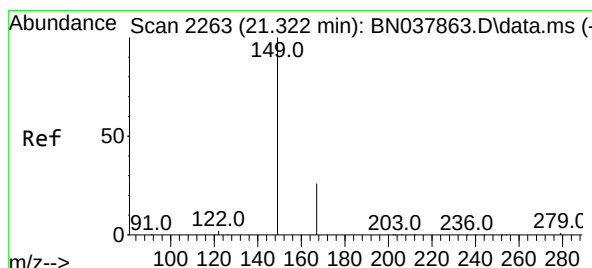
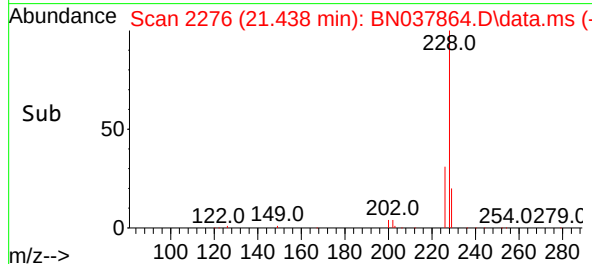
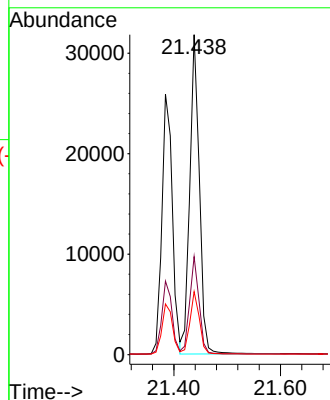
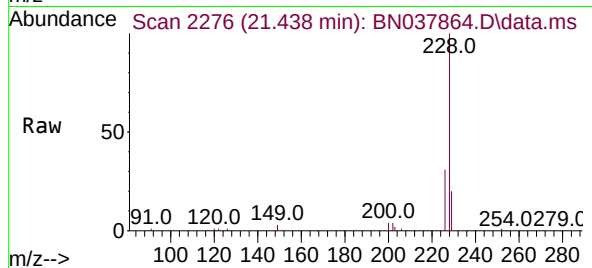




#33
Chrysene
Concen: 0.765 ng
RT: 21.438 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

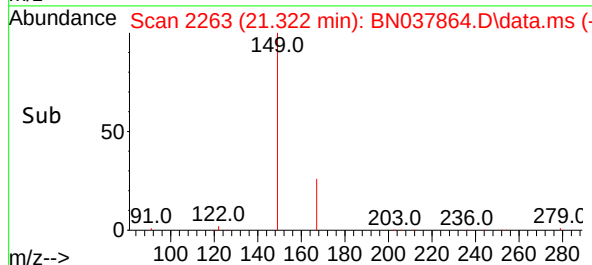
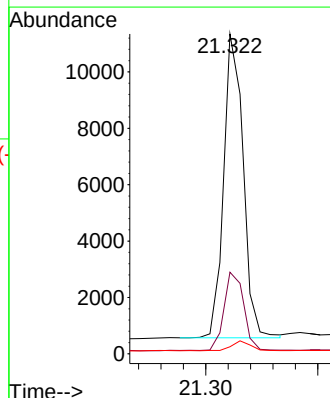
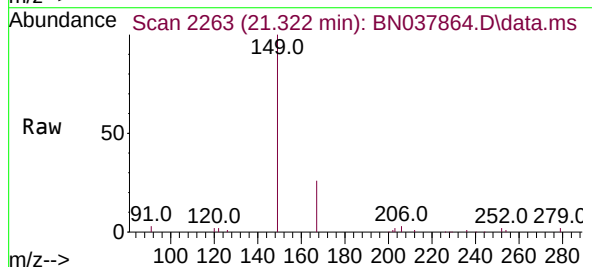
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

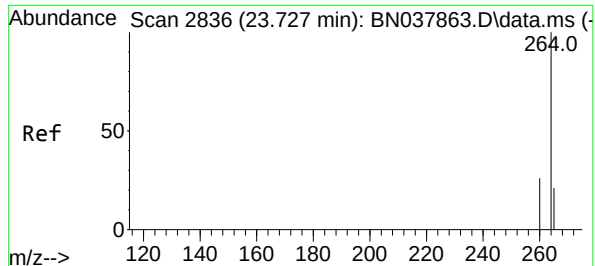
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.6	23.4



#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

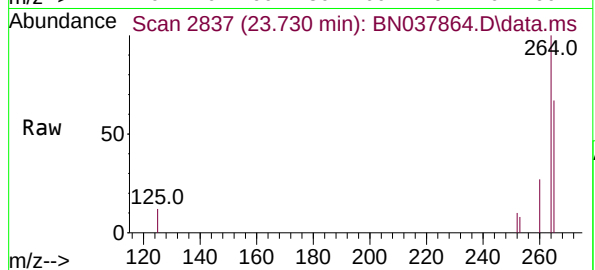
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



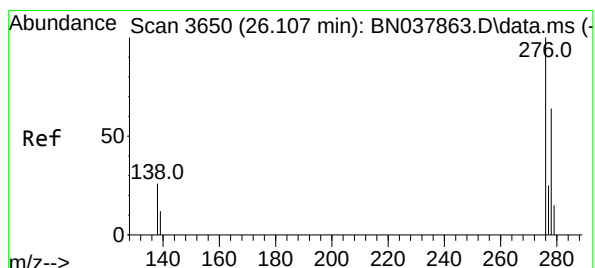
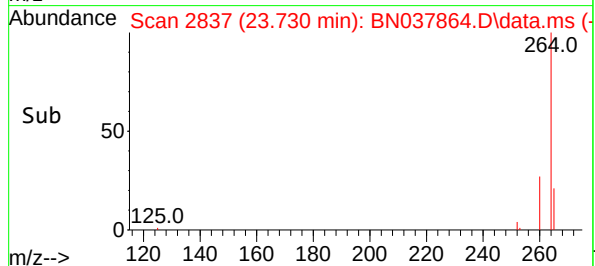
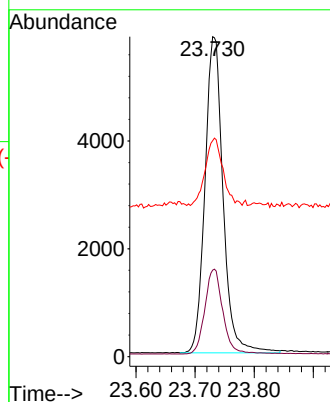
Tgt Ion:264 Resp: 12464

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

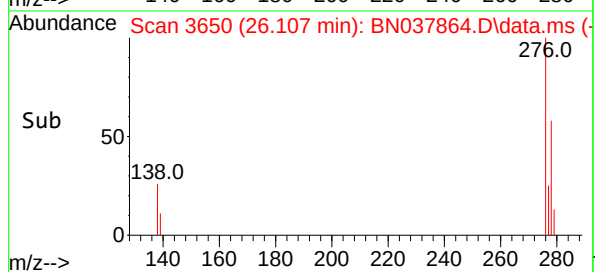
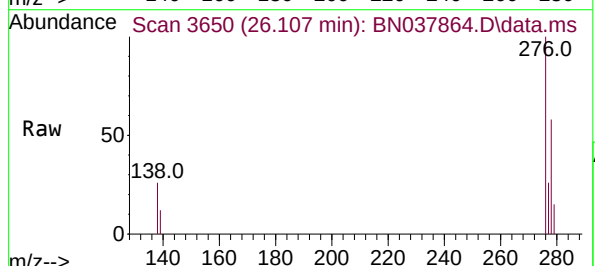
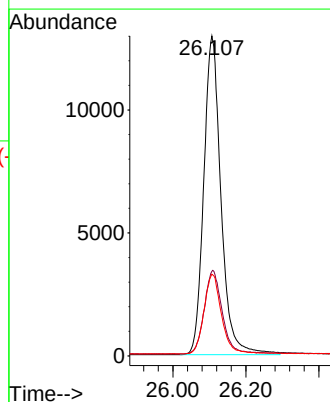
Tgt Ion:276 Resp: 42560

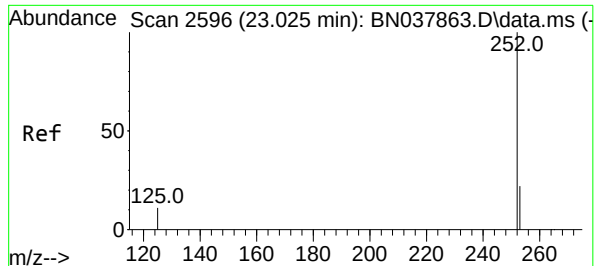
Ion Ratio Lower Upper

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# 2596

Delta R.T. -0.000 min

Lab File: BN037864.D

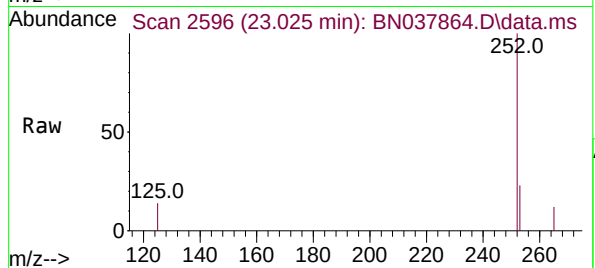
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



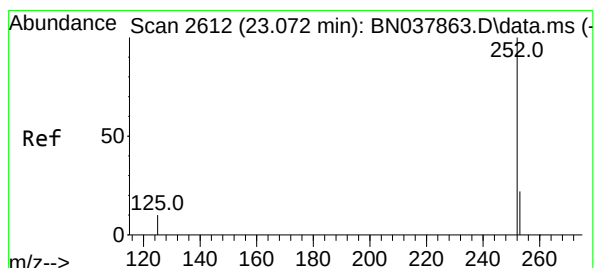
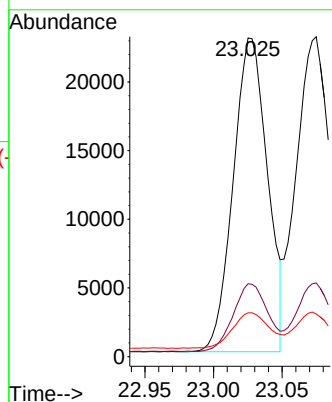
Tgt Ion:252 Resp: 39646

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

125 13.7 13.0 19.4



#38

Benzo(k)fluoranthene

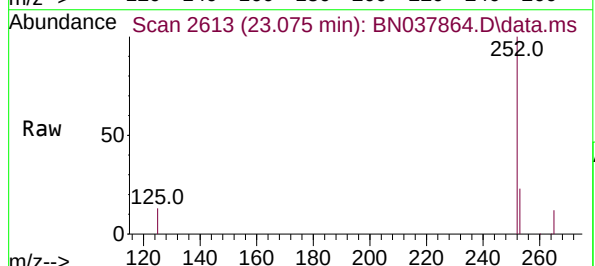
Concen: 0.750 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02



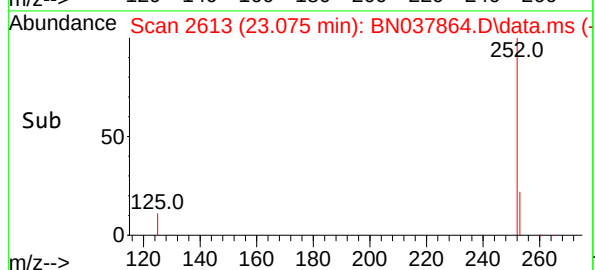
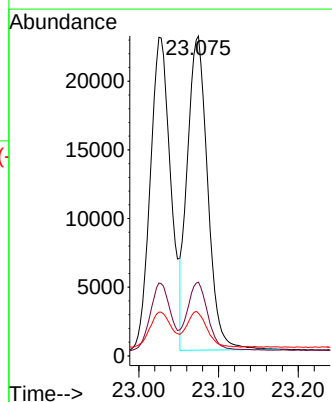
Tgt Ion:252 Resp: 40574

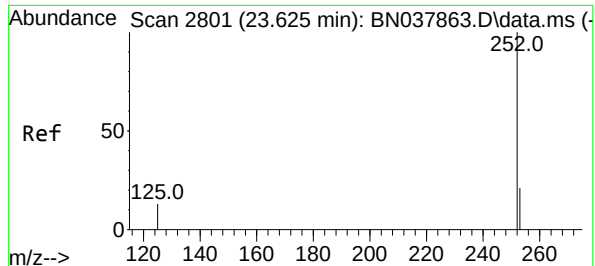
Ion Ratio Lower Upper

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

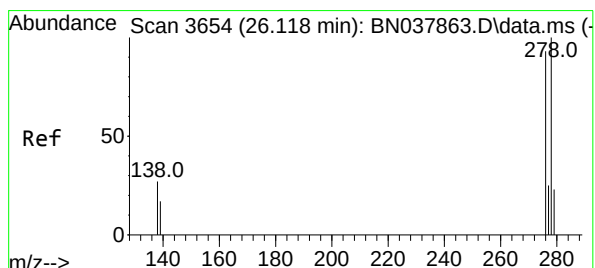
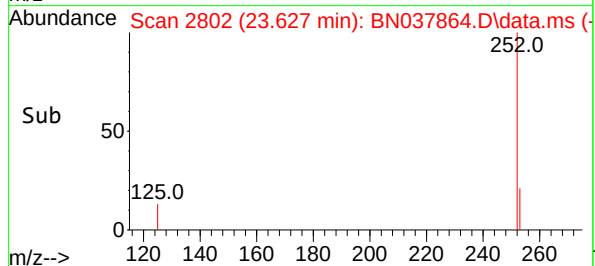
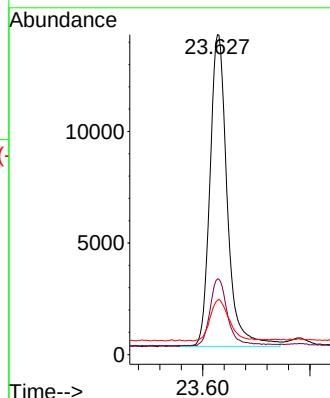
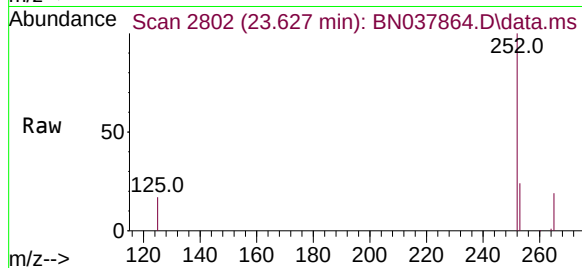
Tgt Ion:252 Resp: 31265

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

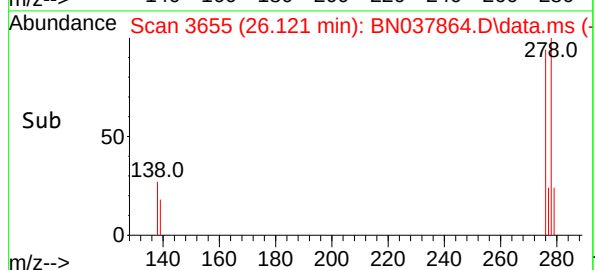
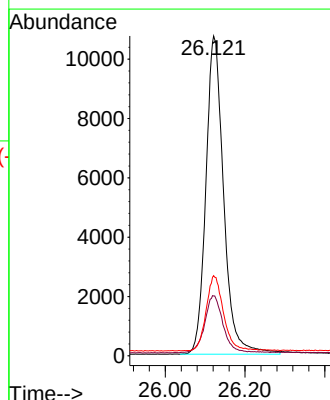
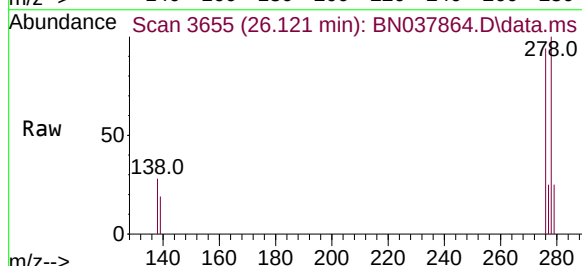
Tgt Ion:278 Resp: 33235

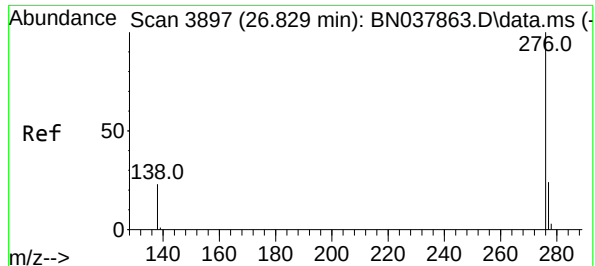
Ion Ratio Lower Upper

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

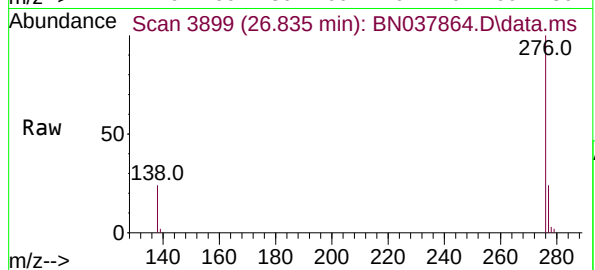
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



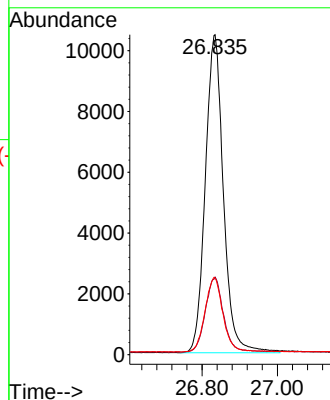
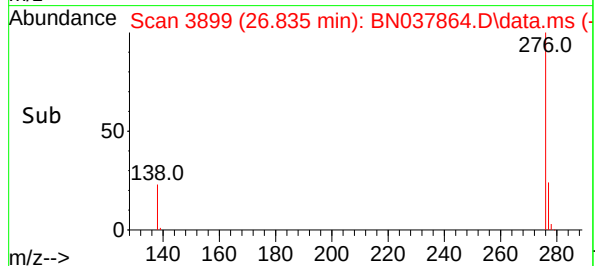
Tgt Ion:276 Resp: 34817

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

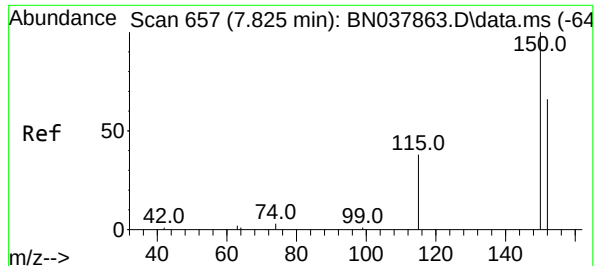
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng	0.00
29) Chrysene-d12	21.402	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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

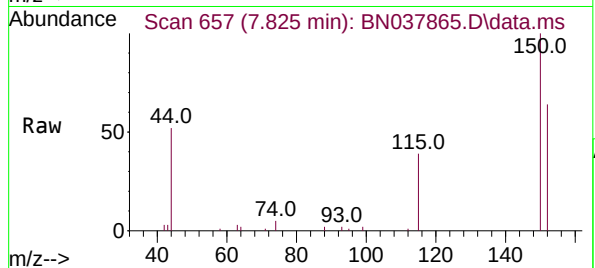
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



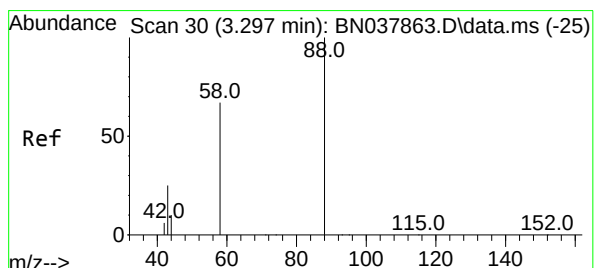
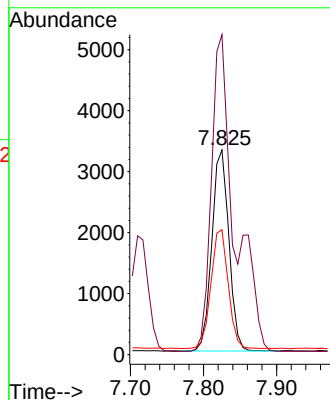
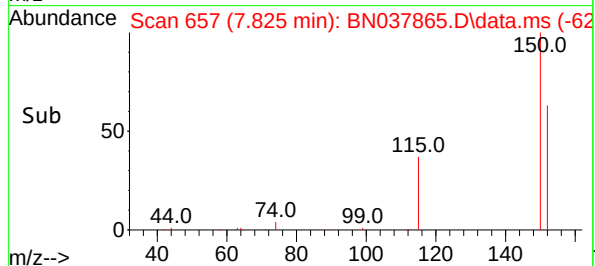


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

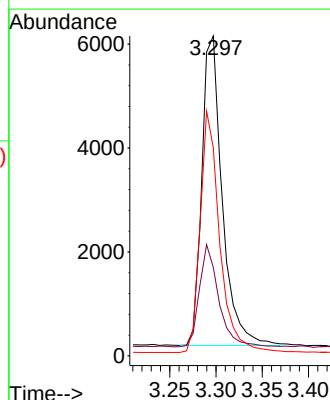
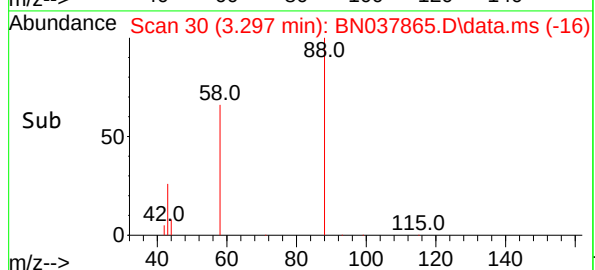
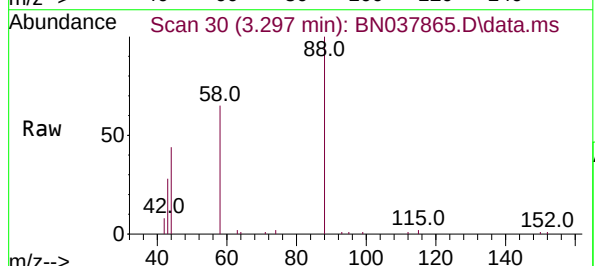


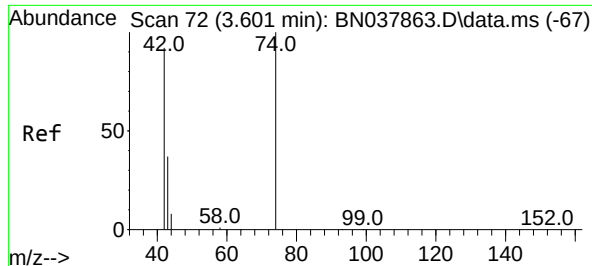
Tgt Ion:152 Resp: 5367
Ion Ratio Lower Upper
152 100
150 156.4 121.0 181.4
115 61.0 47.4 71.0



#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

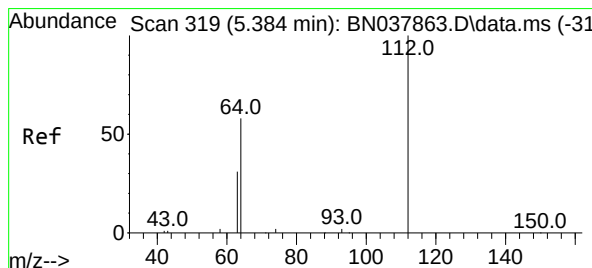
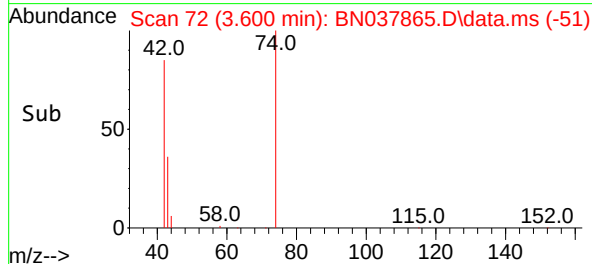
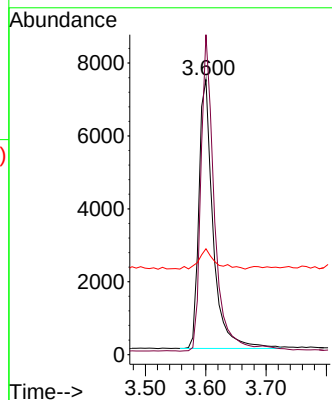
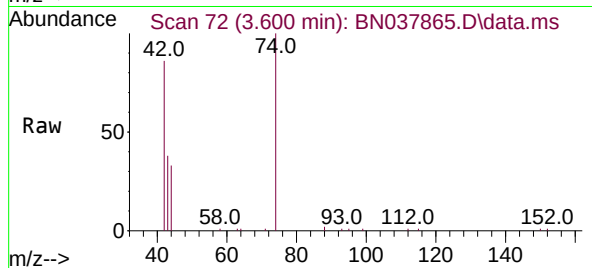




#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

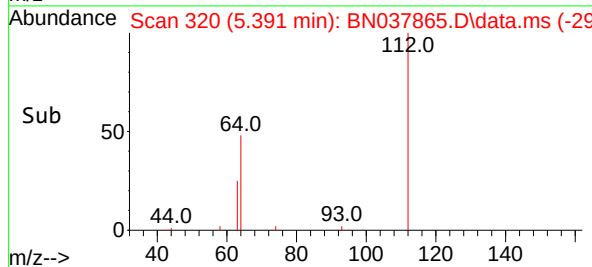
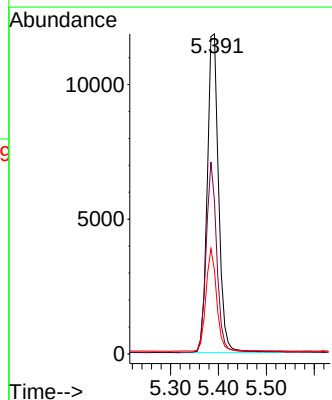
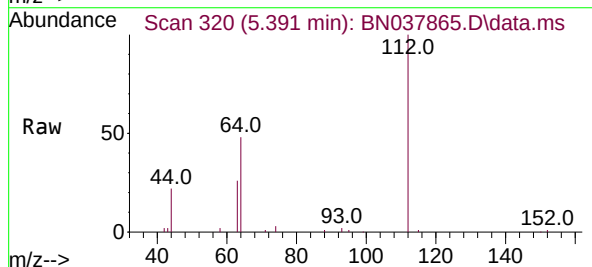
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

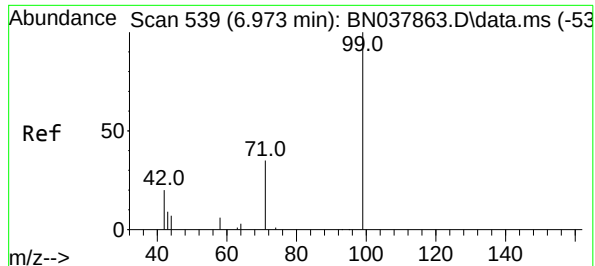
Tgt Ion: 42 Resp: 12048
Ion Ratio Lower Upper
42 100
74 110.9 93.4 140.0
44 8.4 22.2 33.4#



#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

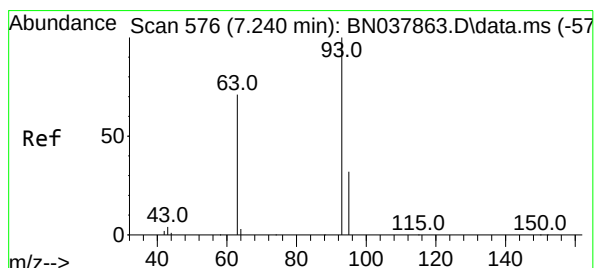
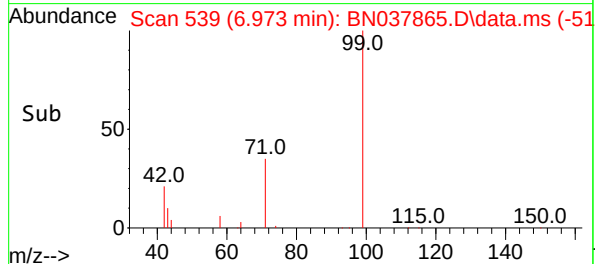
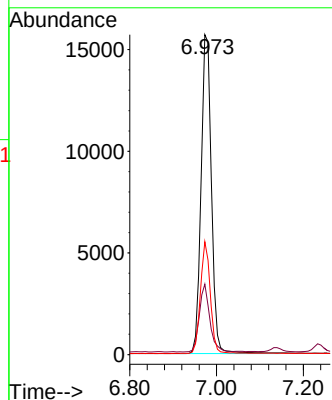
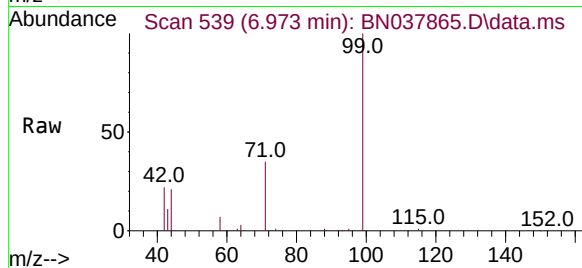




#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

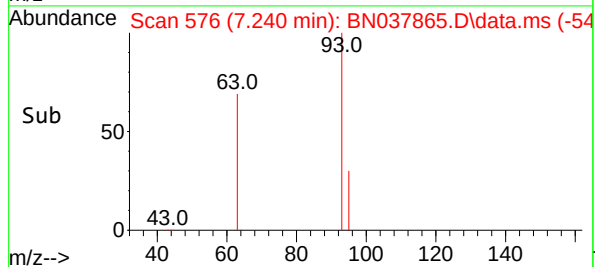
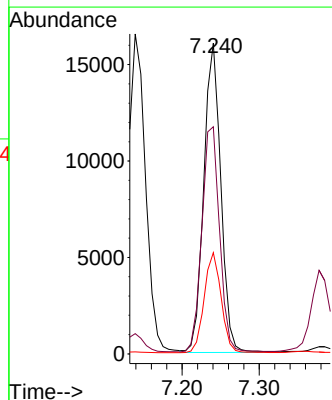
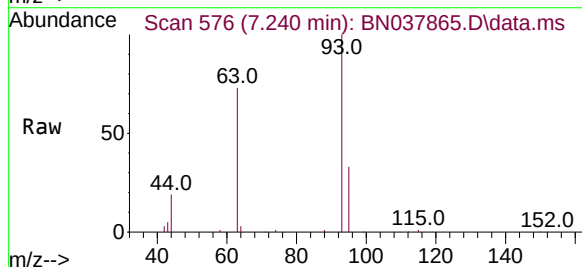
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

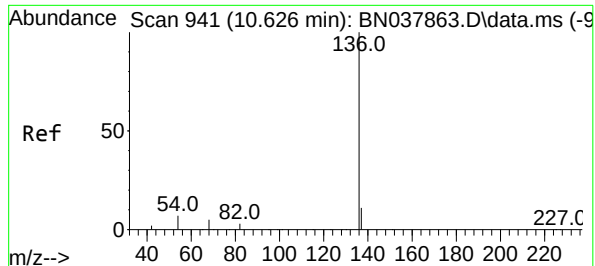
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9



#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

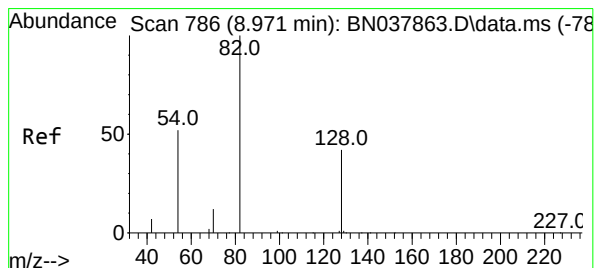
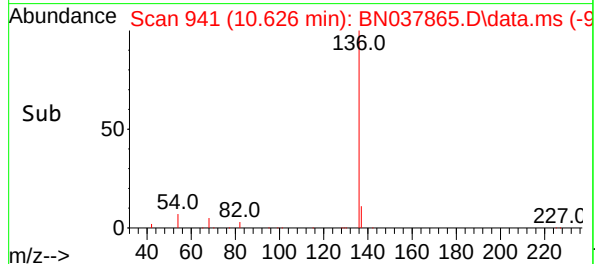
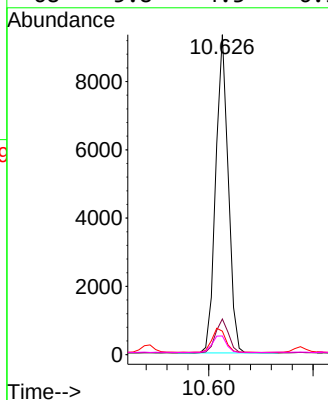
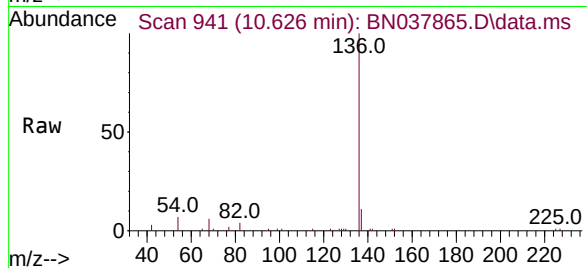




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

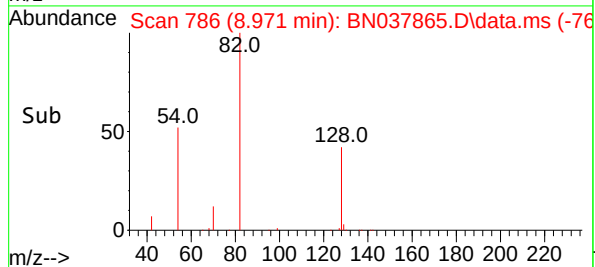
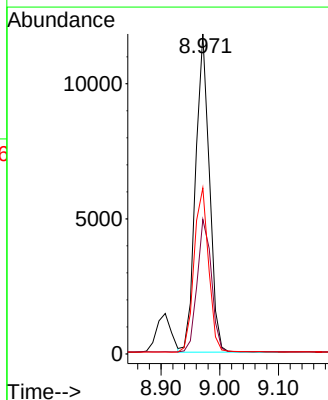
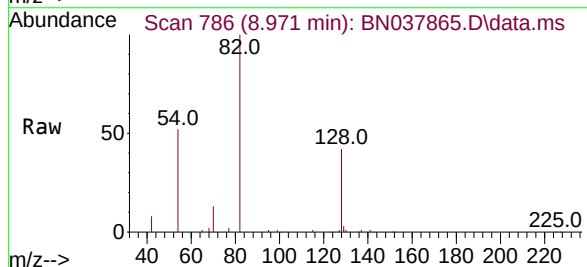
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

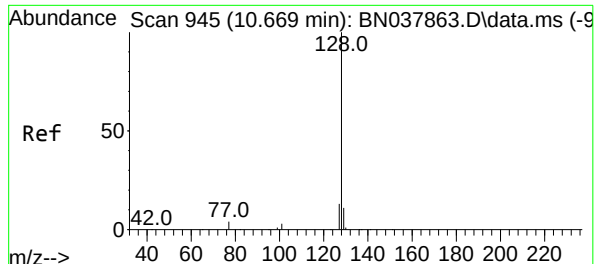
Tgt Ion:	136	Resp:	15494
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5



#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

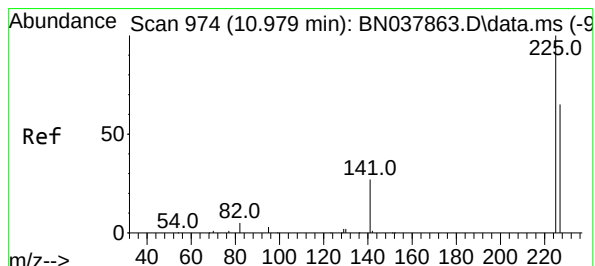
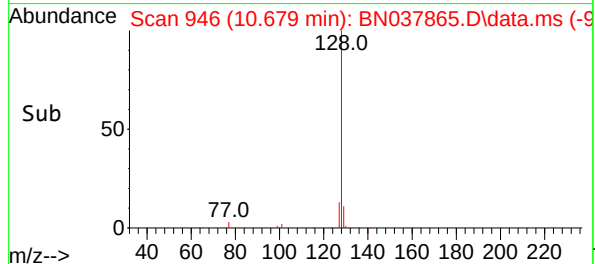
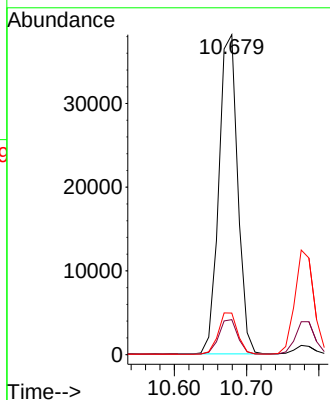
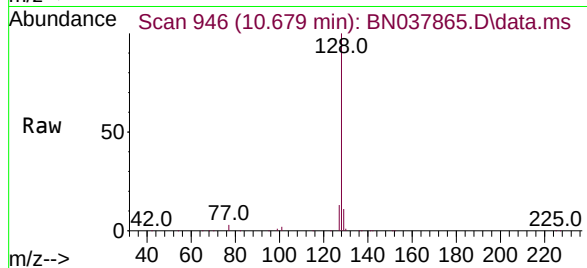




#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 945
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

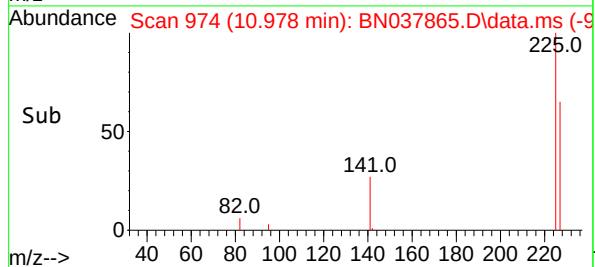
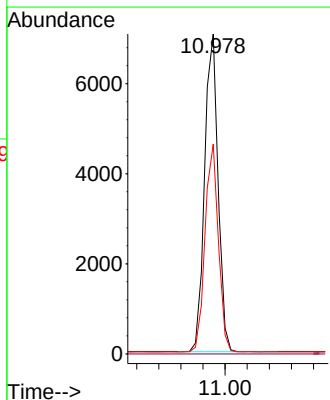
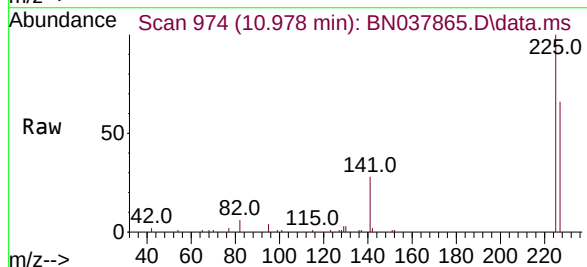
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

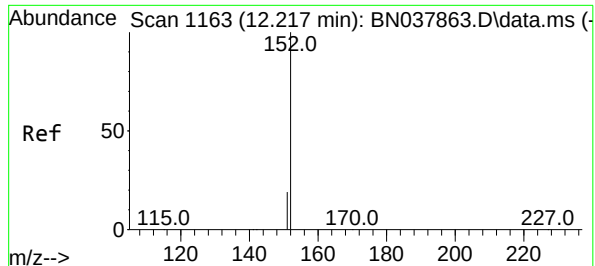
Tgt Ion:128 Resp: 69620
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.0 11.0 16.6



#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

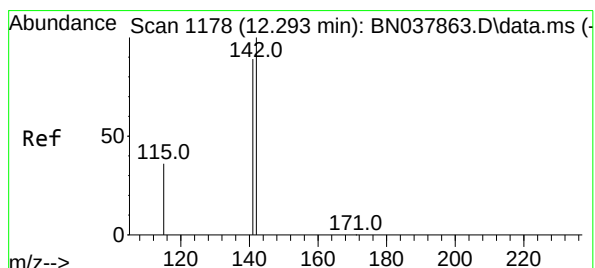
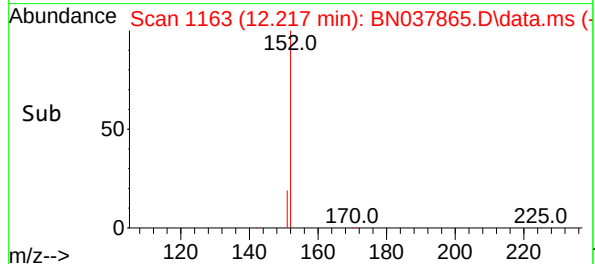
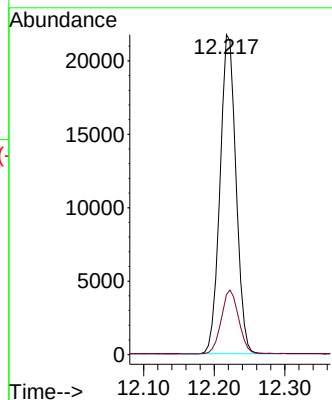
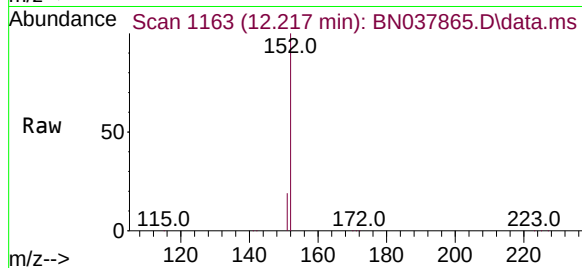




#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

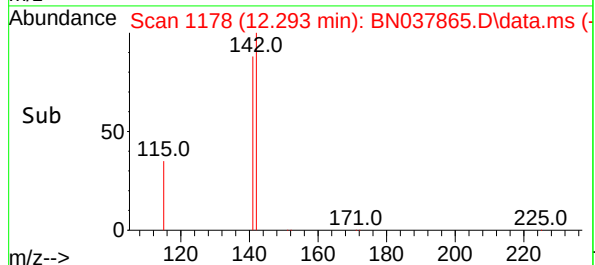
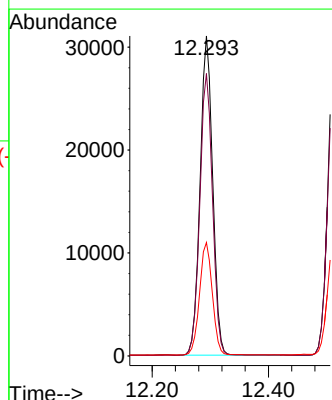
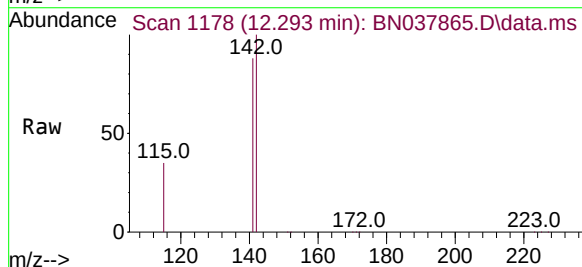
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

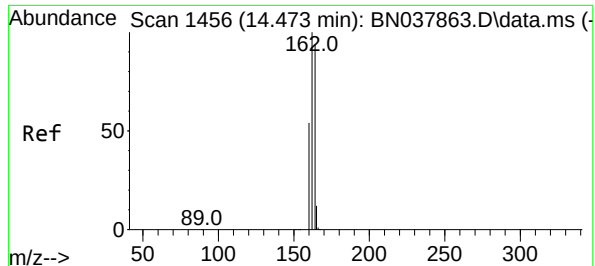
Tgt Ion:152 Resp: 34256
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#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

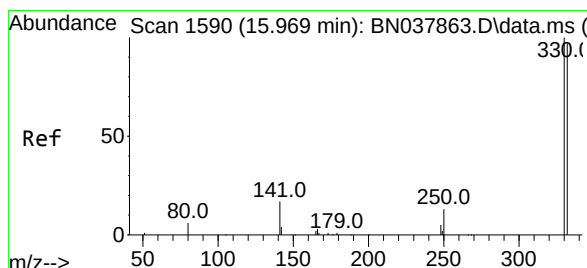
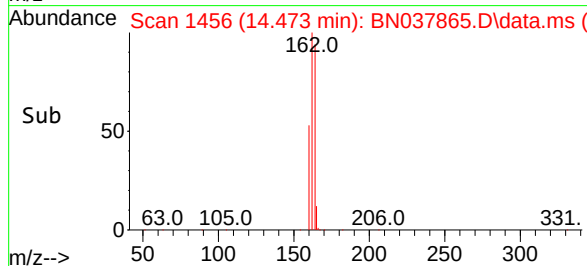
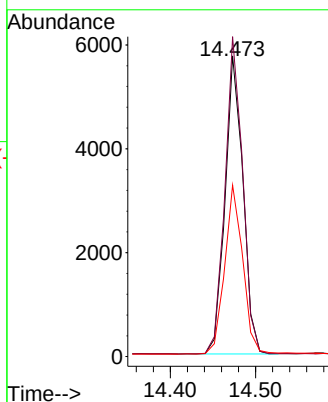
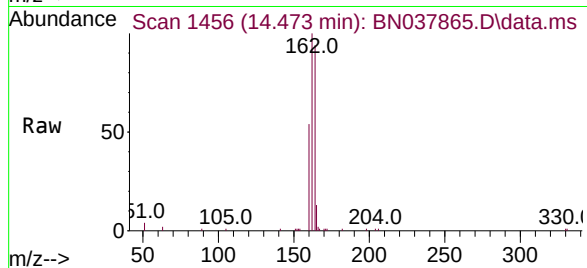
Tgt Ion:164 Resp: 8404

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

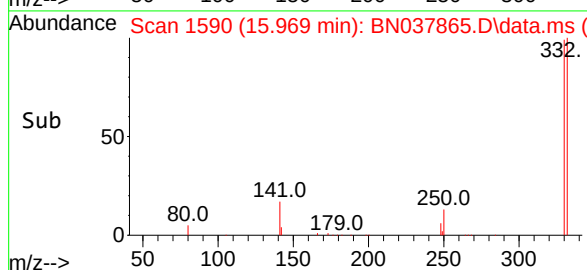
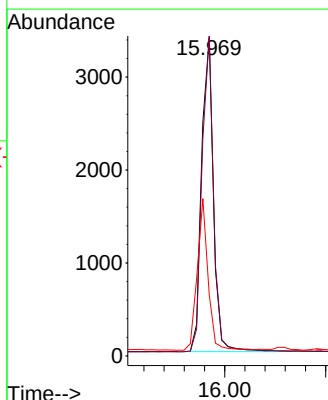
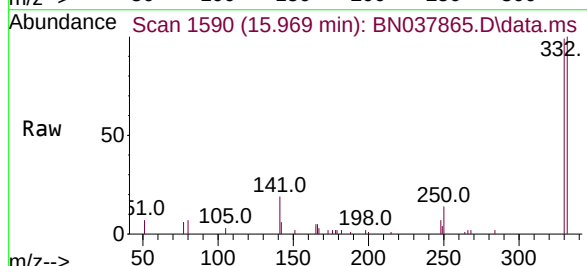
Tgt Ion:330 Resp: 5471

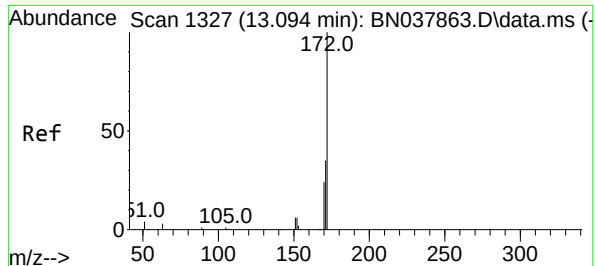
Ion Ratio Lower Upper

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

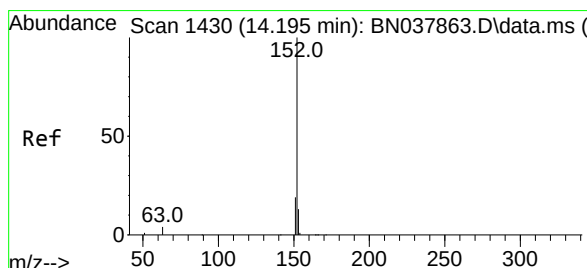
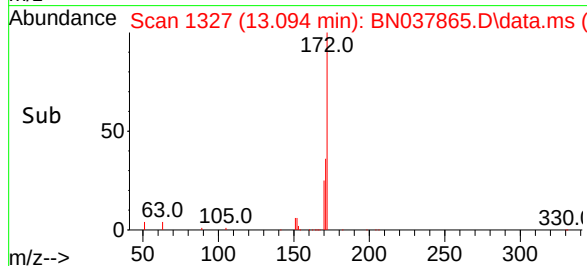
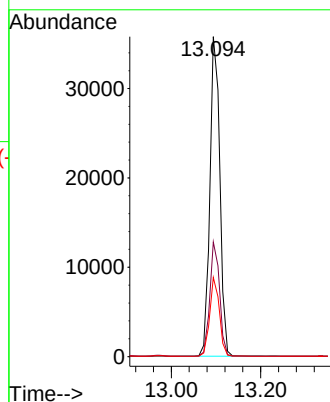
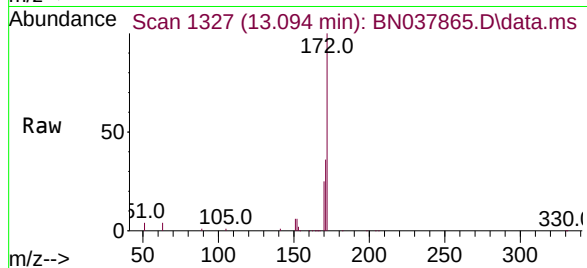
Tgt Ion:172 Resp: 55598

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

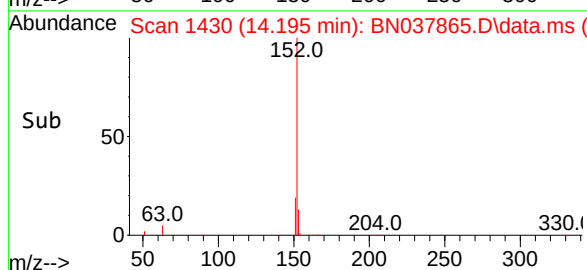
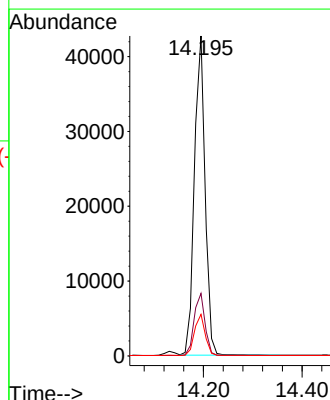
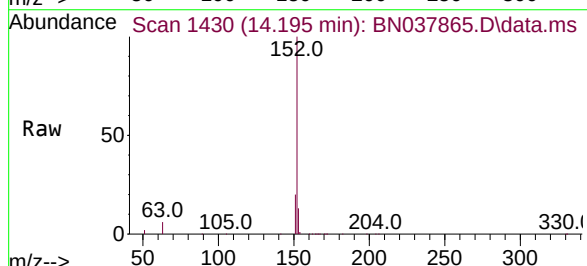
Tgt Ion:152 Resp: 64093

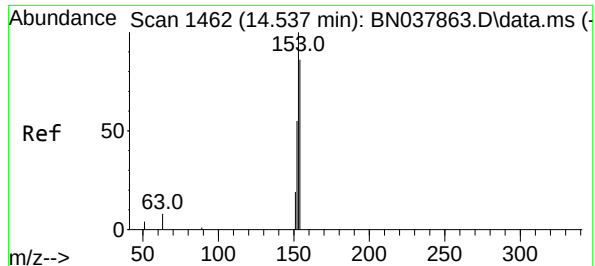
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7

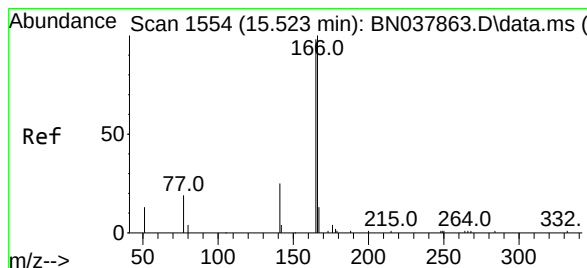
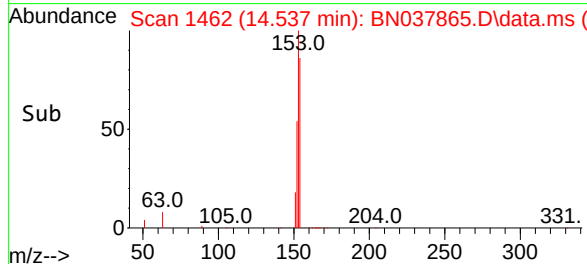
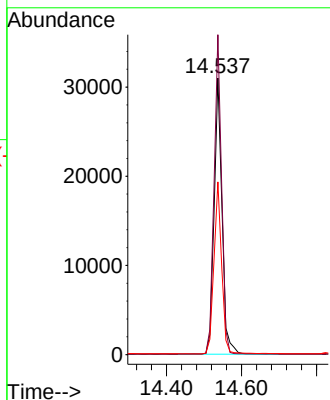
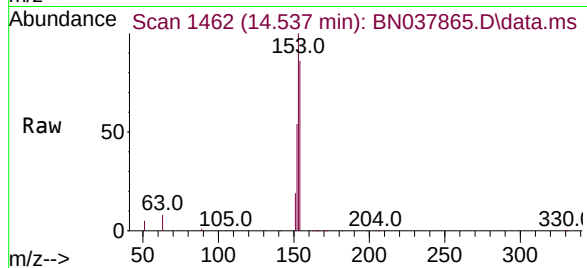




#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

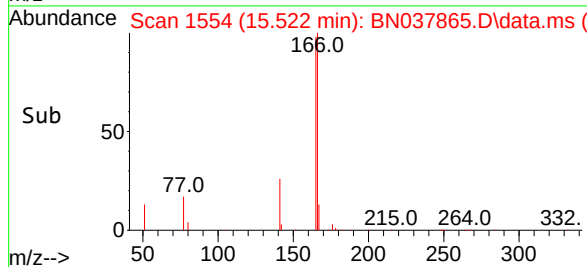
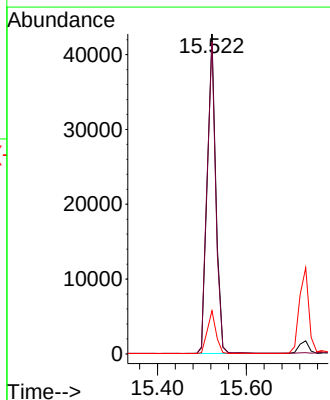
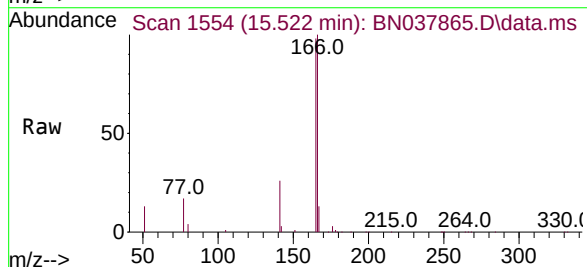
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

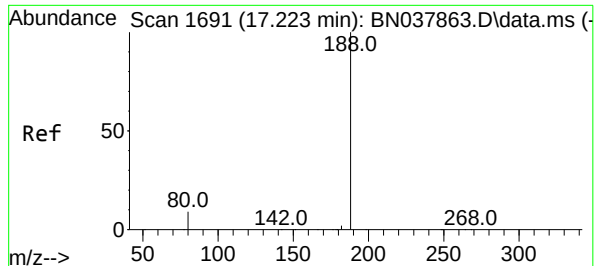
Tgt Ion:154 Resp: 45411
Ion Ratio Lower Upper
154 100
153 110.4 90.5 135.7
152 61.0 51.8 77.8



#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

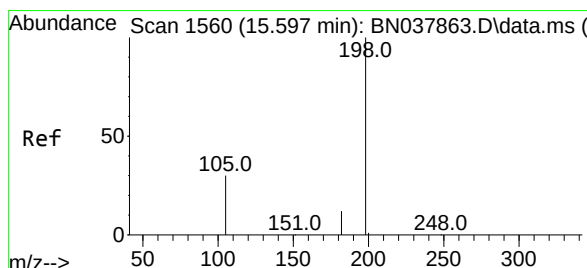
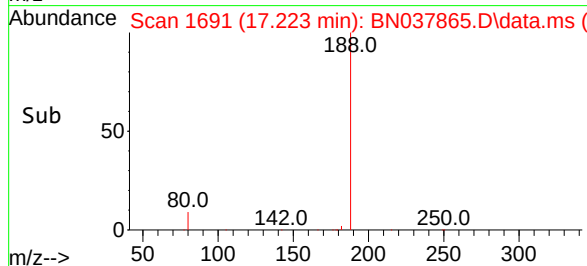
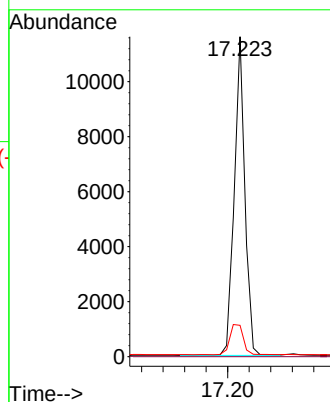
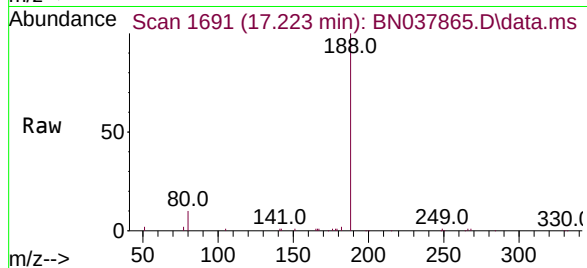
Tgt Ion:188 Resp: 15875

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

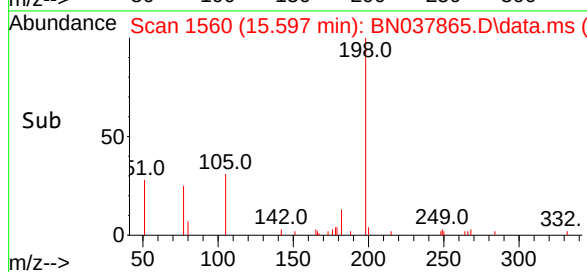
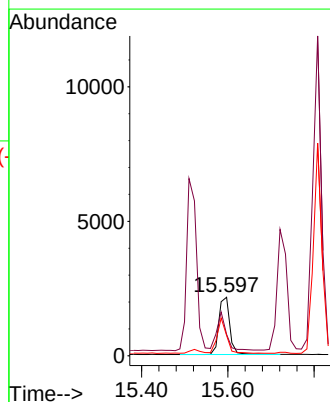
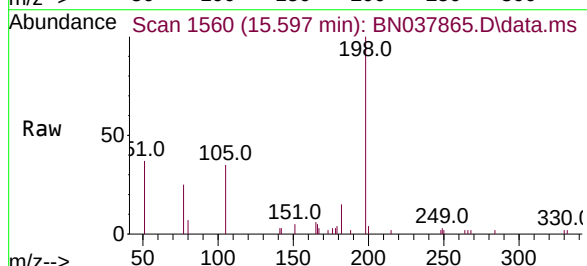
Tgt Ion:198 Resp: 3669

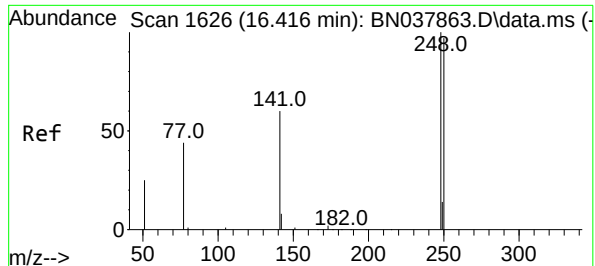
Ion Ratio Lower Upper

198 100

51 36.7 59.1 88.7#

105 34.9 41.3 61.9#

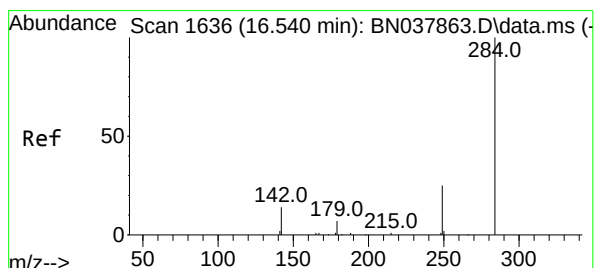
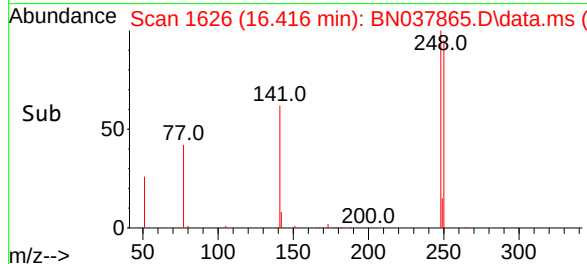
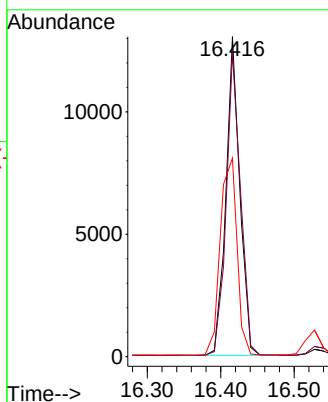
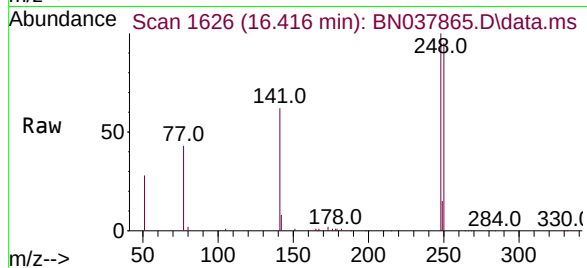




#21
4-Bromophenyl-phenylether
Concen: 1.670 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

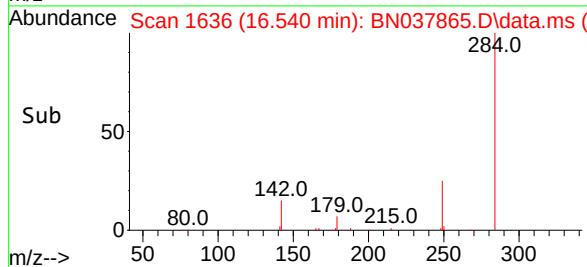
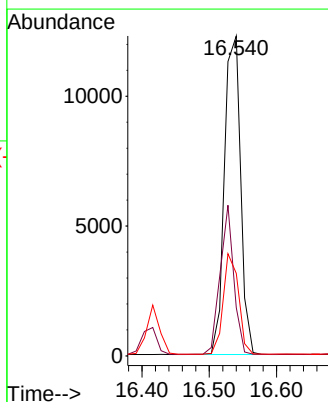
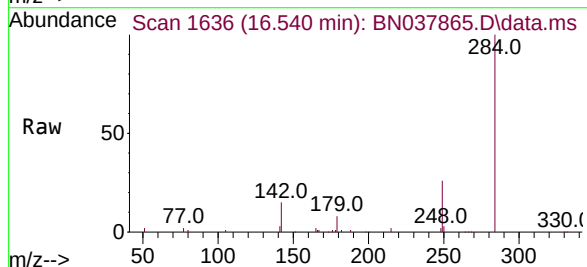
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

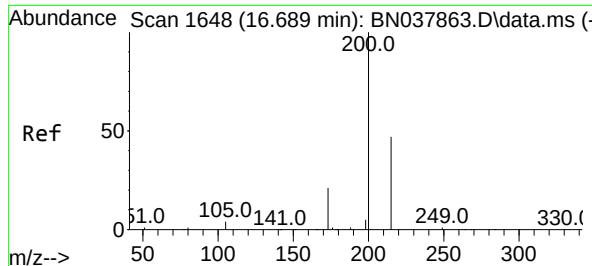
Tgt Ion:248 Resp: 17278
Ion Ratio Lower Upper
248 100
250 95.0 77.6 116.4
141 62.0 48.8 73.2



#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

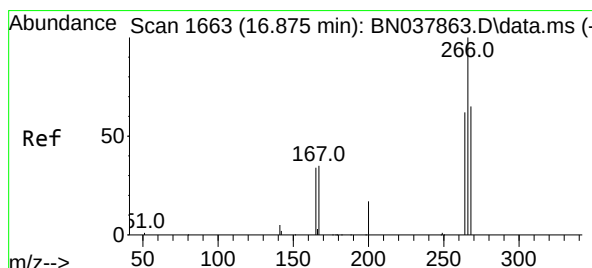
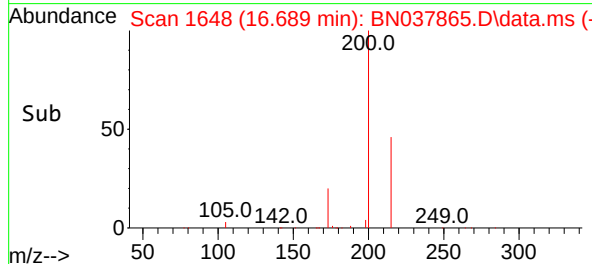
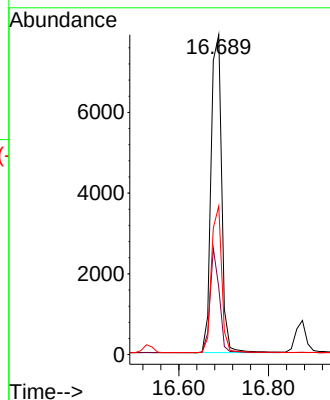
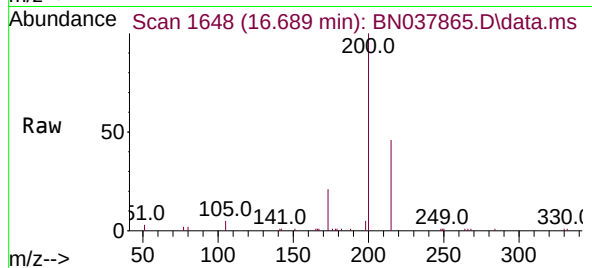




#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

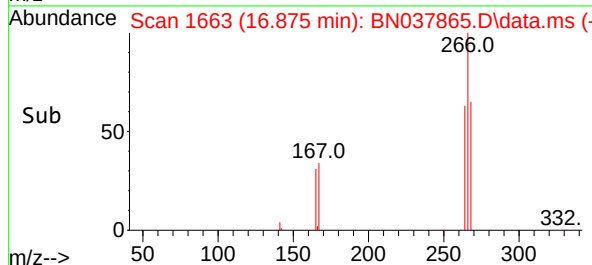
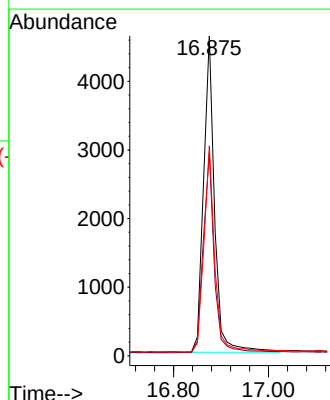
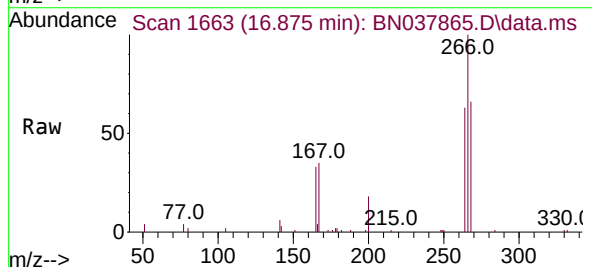
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

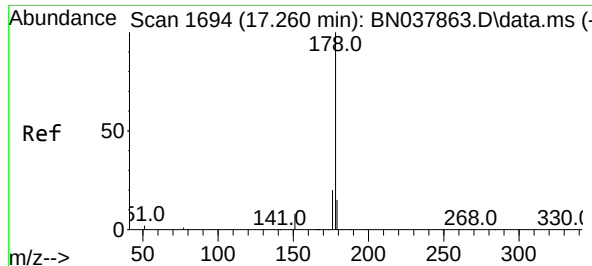
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0



#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

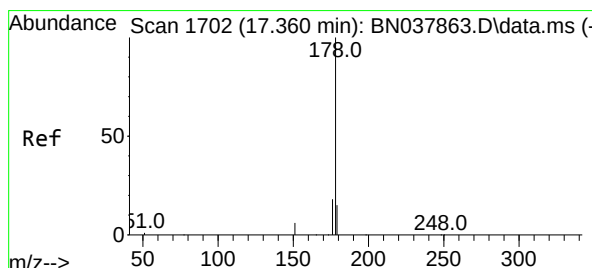
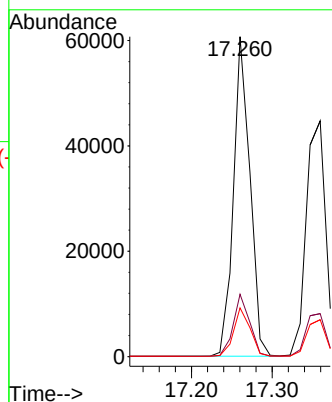
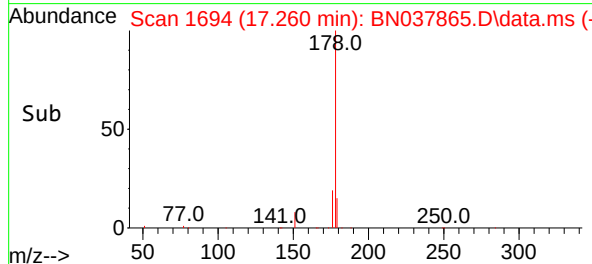
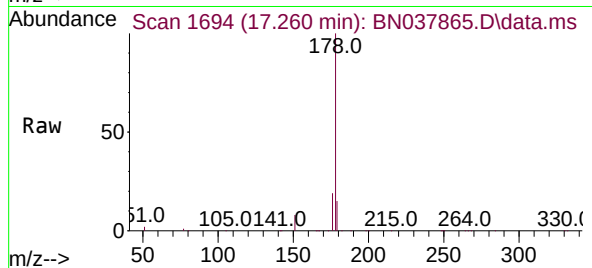




#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

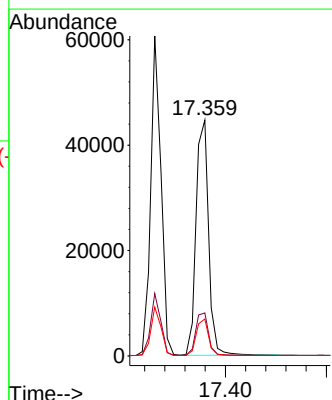
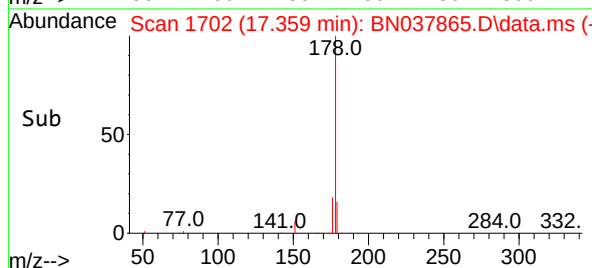
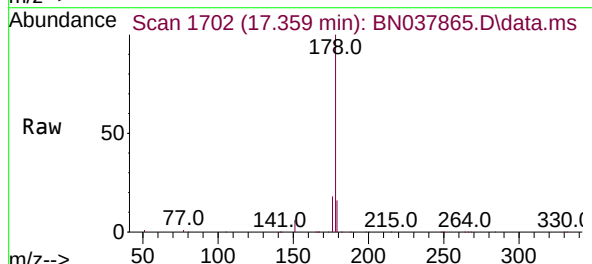
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

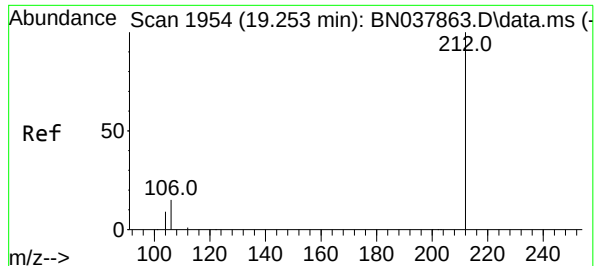
Tgt Ion:178 Resp: 86207
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.3 18.5



#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

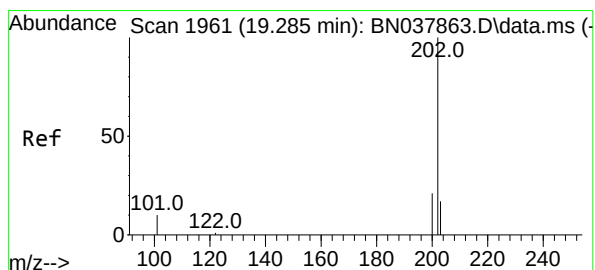
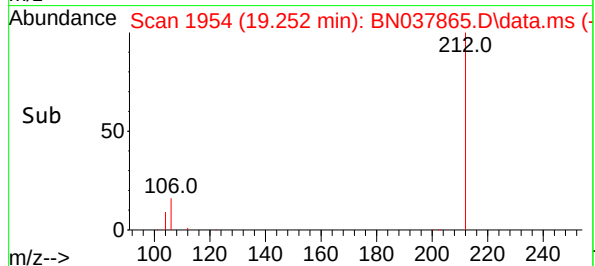
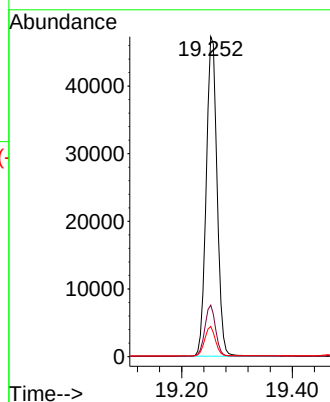
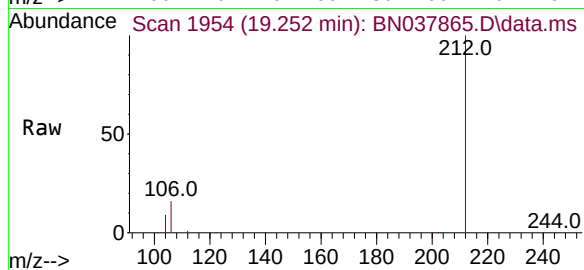
Tgt Ion:212 Resp: 63771

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

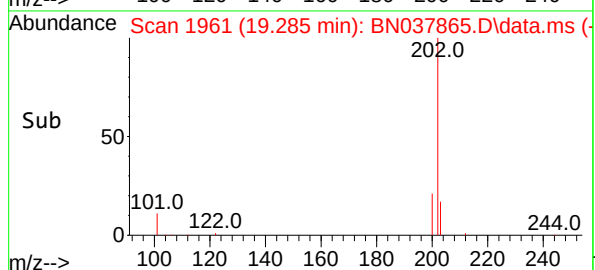
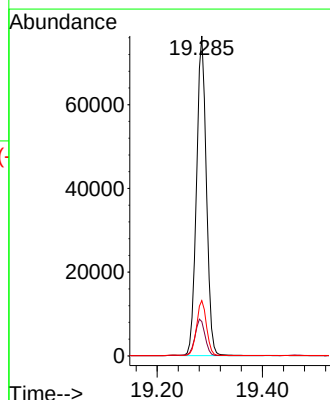
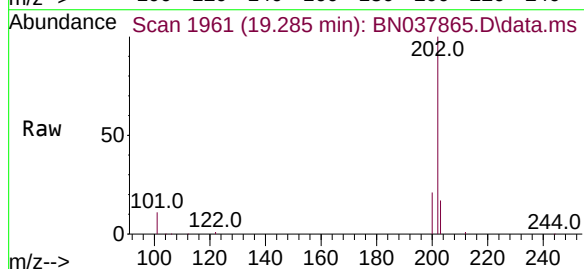
Tgt Ion:202 Resp: 98772

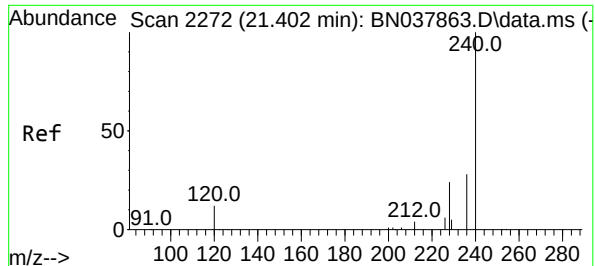
Ion Ratio Lower Upper

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

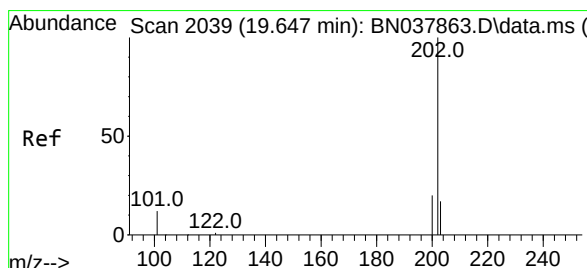
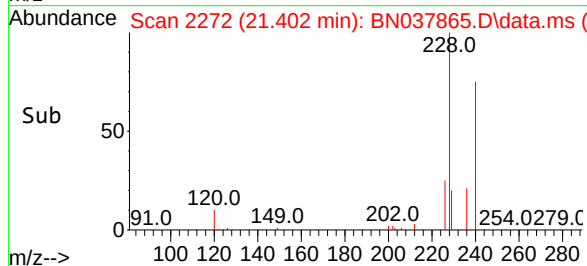
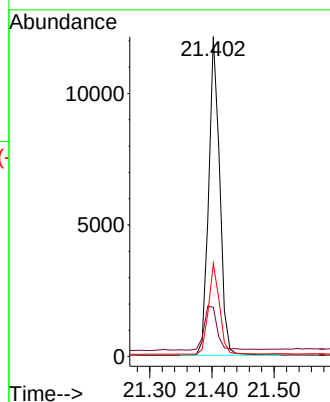
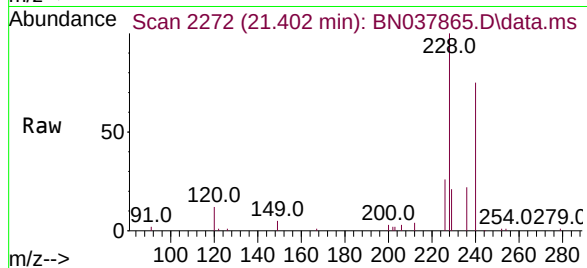
Tgt Ion:240 Resp: 14963

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

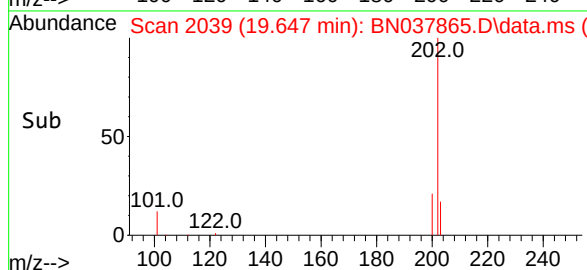
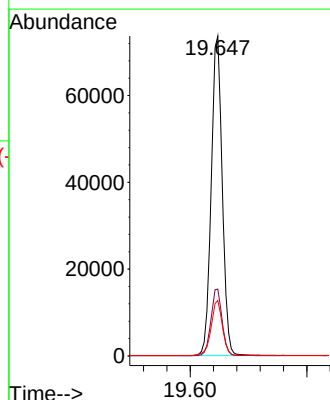
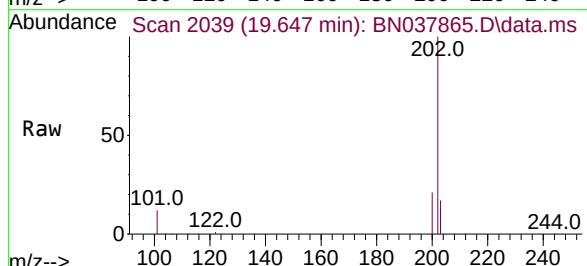
Tgt Ion:202 Resp: 96189

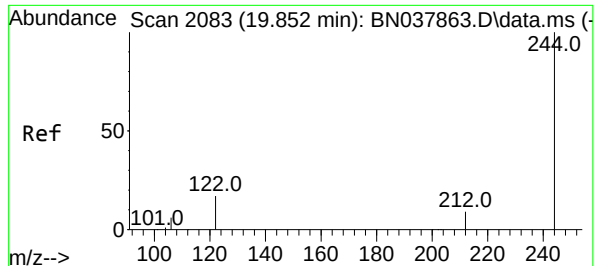
Ion Ratio Lower Upper

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

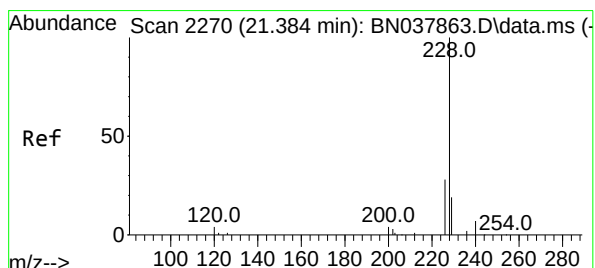
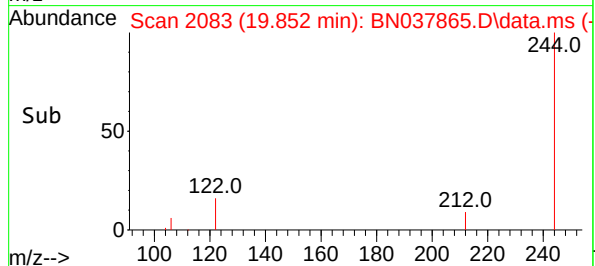
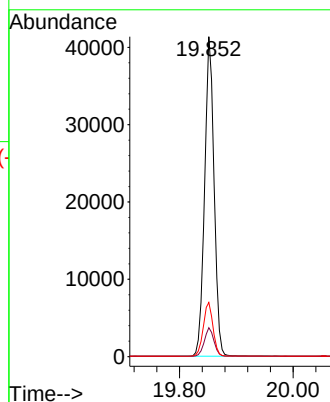
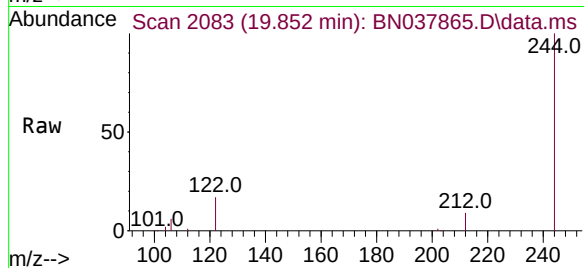
Tgt Ion:244 Resp: 47765

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

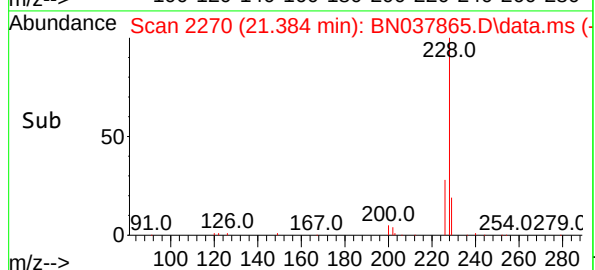
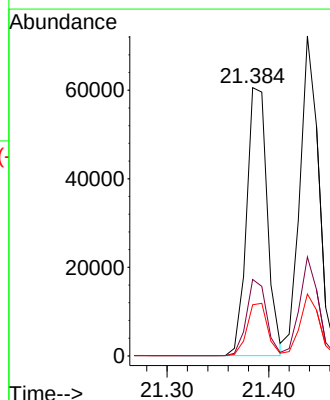
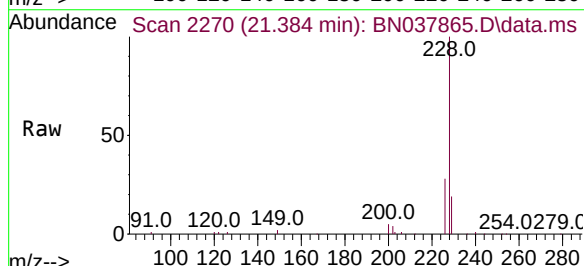
Tgt Ion:228 Resp: 85145

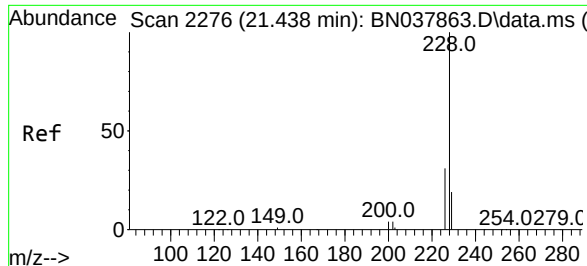
Ion Ratio Lower Upper

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

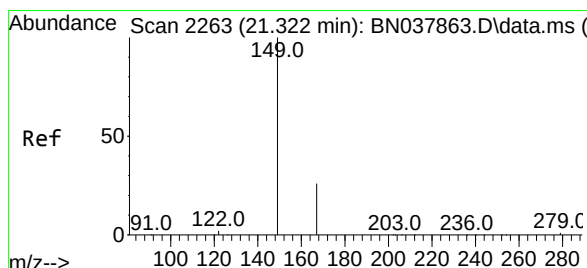
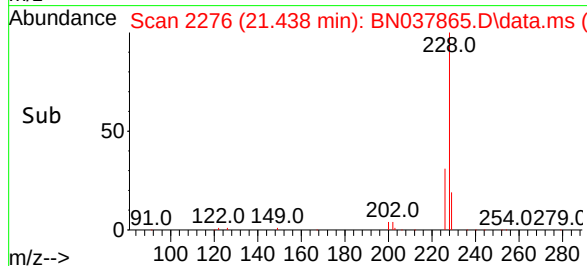
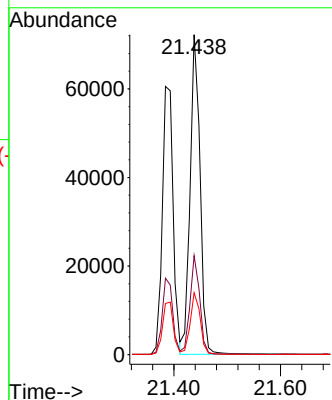
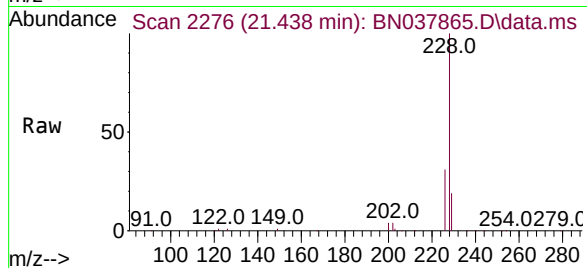
Tgt Ion:228 Resp: 93309

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

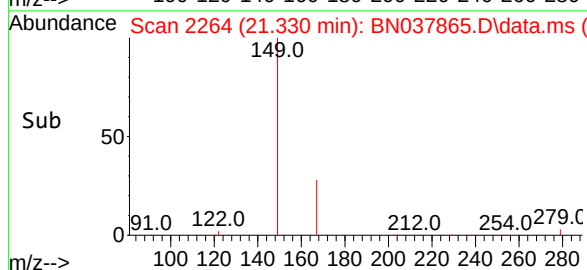
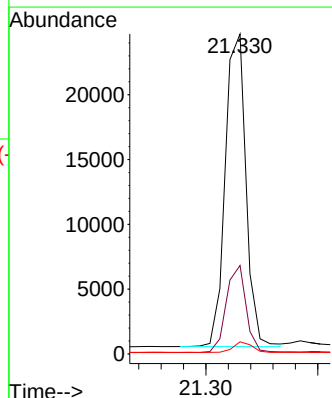
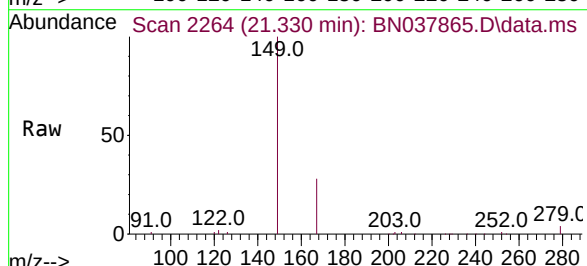
Tgt Ion:149 Resp: 31032

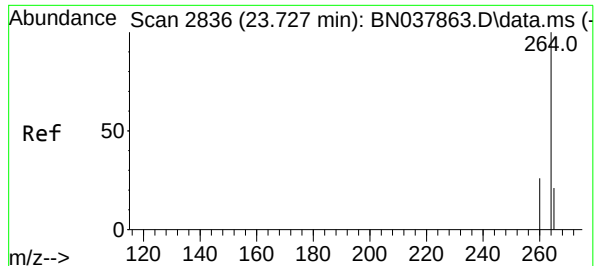
Ion Ratio Lower Upper

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

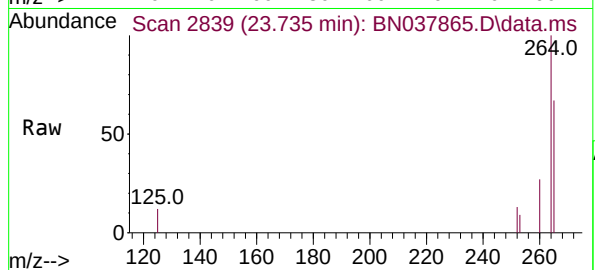
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



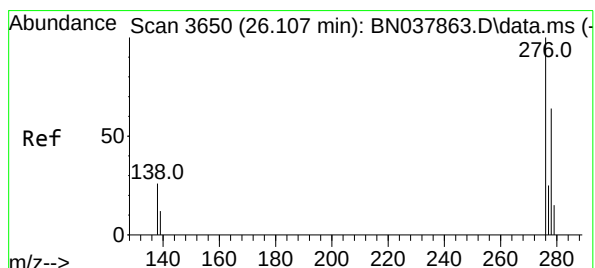
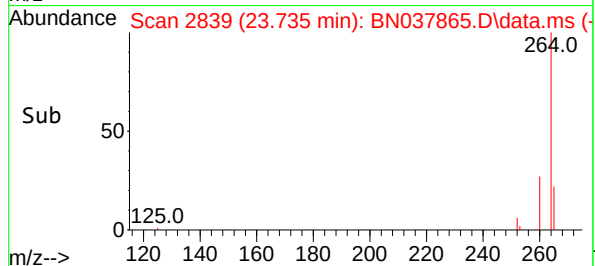
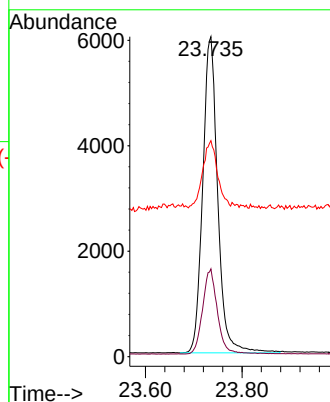
Tgt Ion:264 Resp: 12917

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

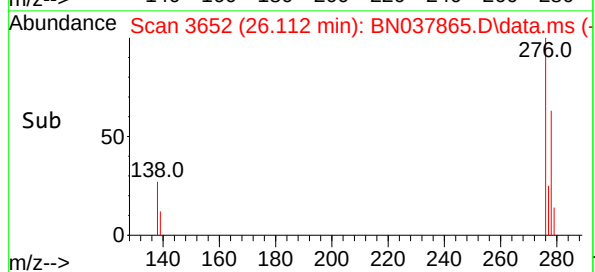
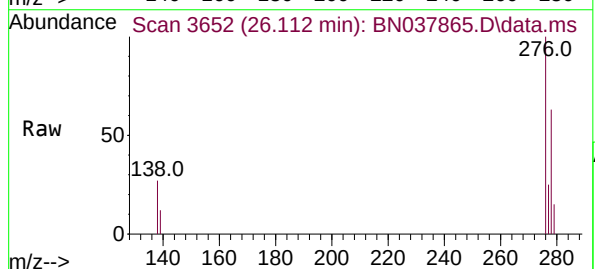
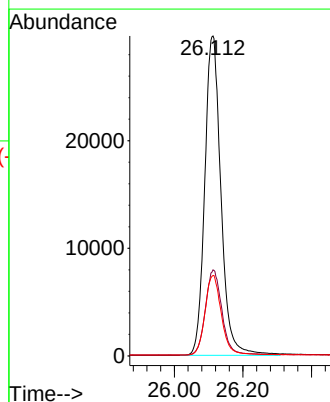
Tgt Ion:276 Resp: 97476

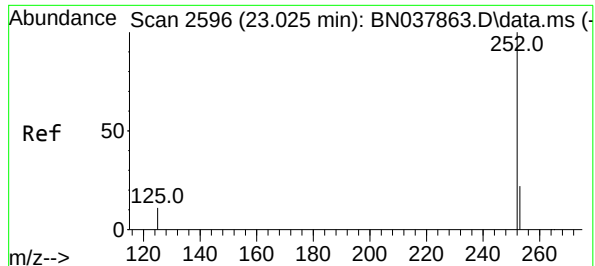
Ion Ratio Lower Upper

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

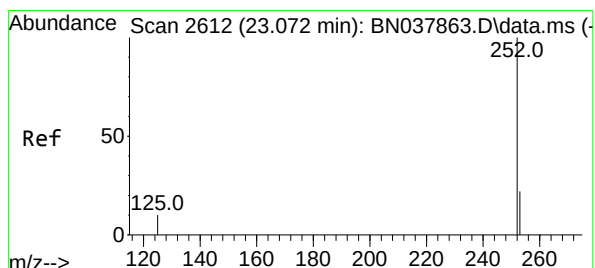
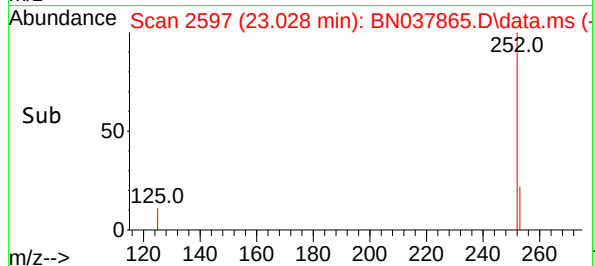
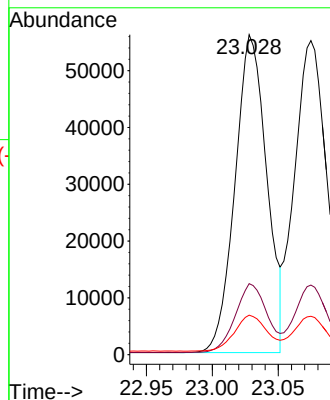
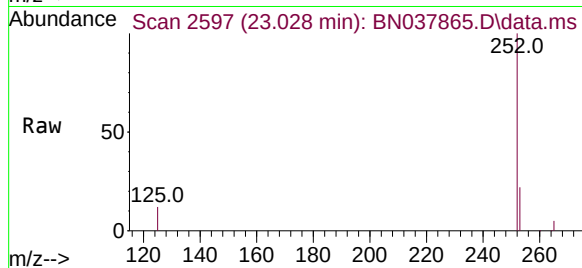
Tgt Ion:252 Resp: 93525

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

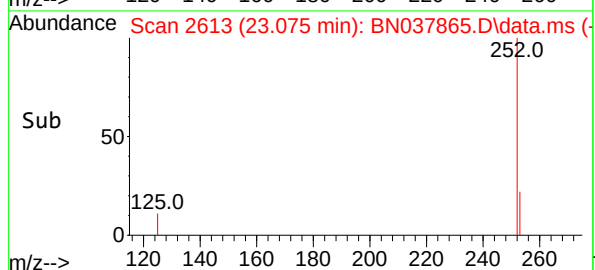
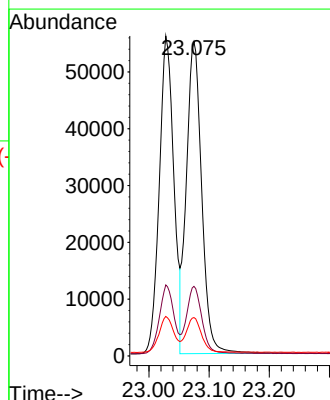
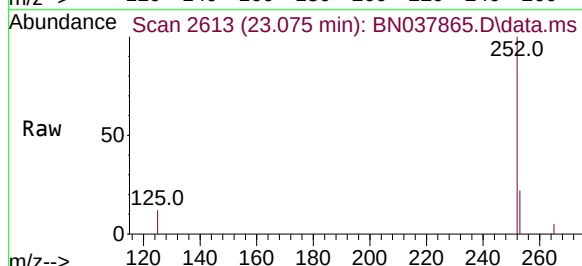
Tgt Ion:252 Resp: 96868

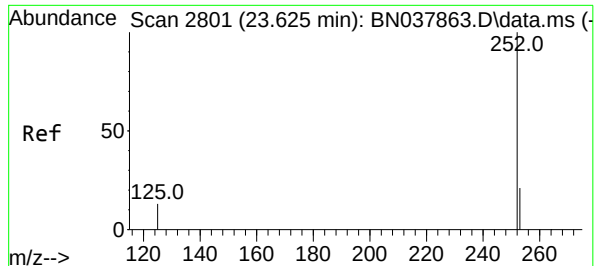
Ion Ratio Lower Upper

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

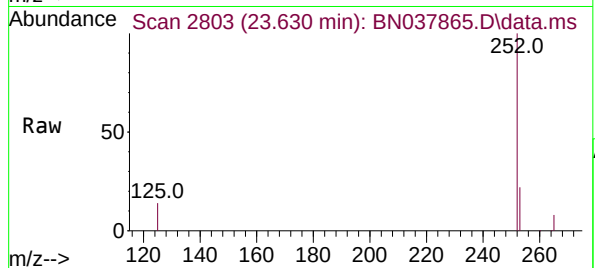
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



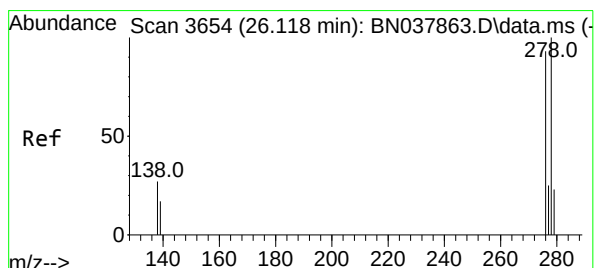
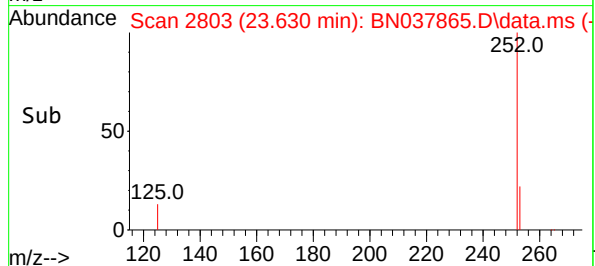
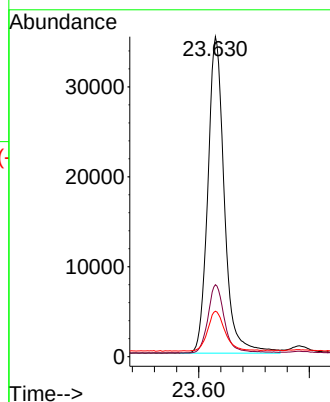
Tgt Ion:252 Resp: 73009

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

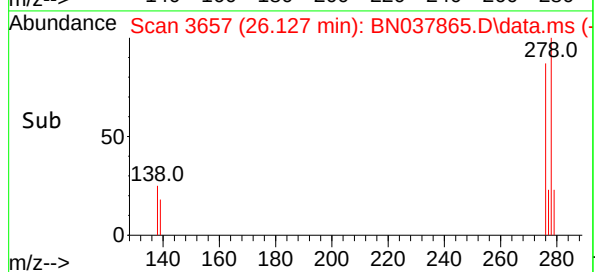
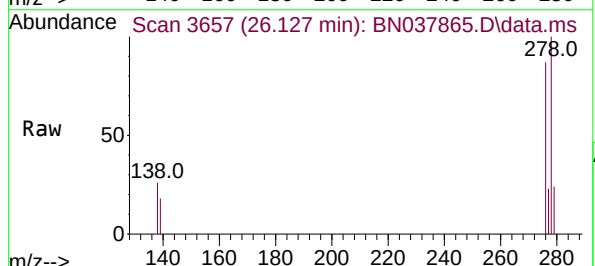
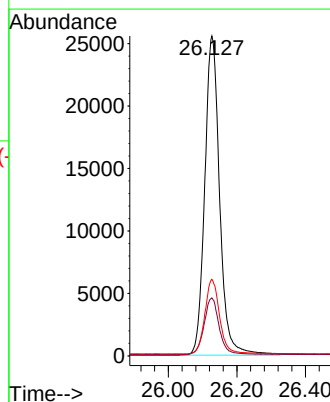
Tgt Ion:278 Resp: 77237

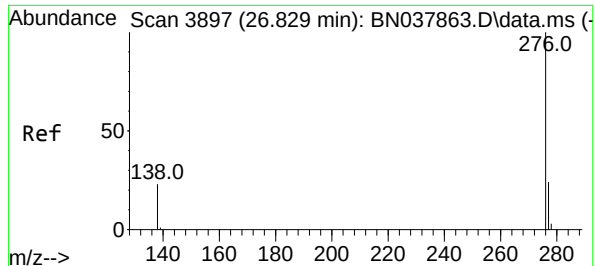
Ion Ratio Lower Upper

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

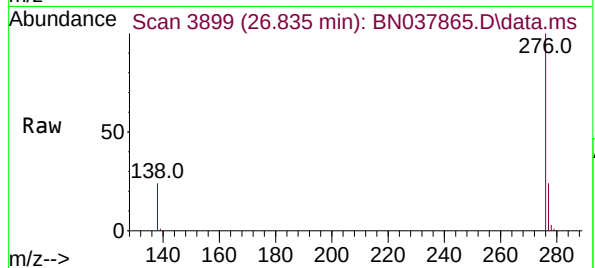
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



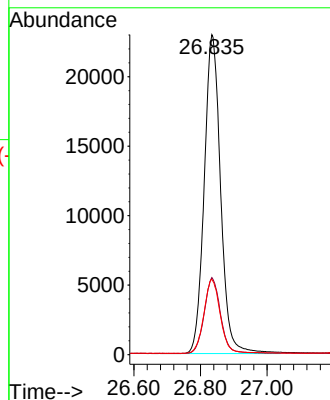
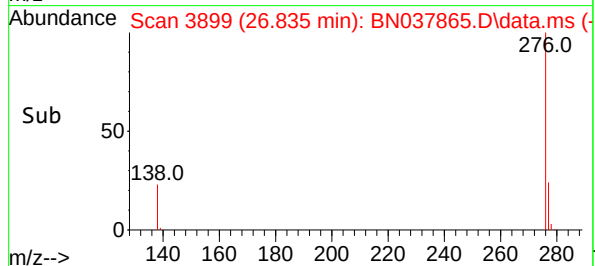
Tgt Ion:276 Resp: 78576

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

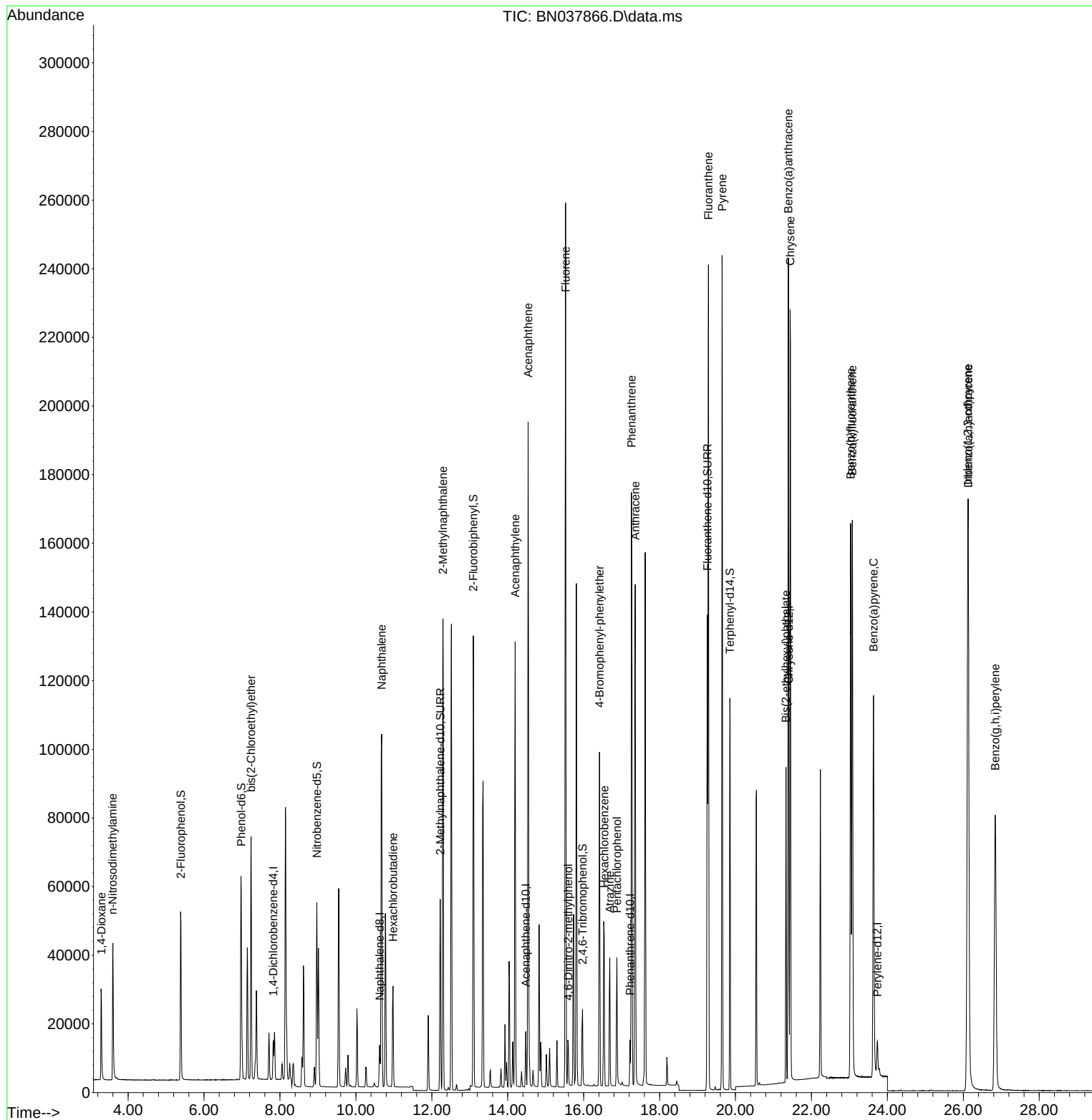
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng	0.00
29) Chrysene-d12	21.402	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	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

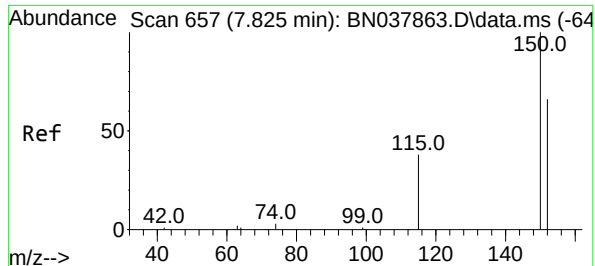
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

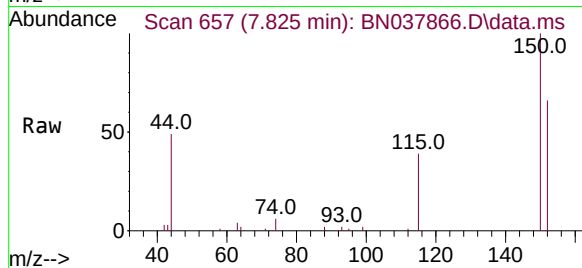
Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



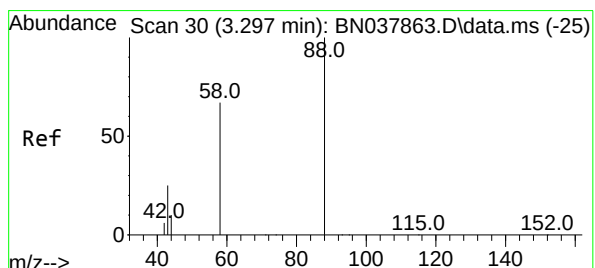
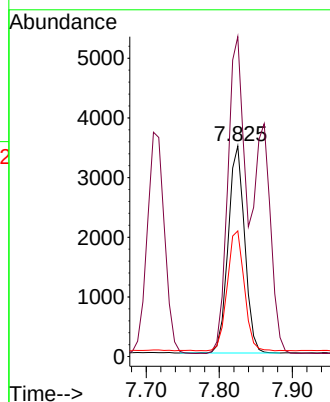
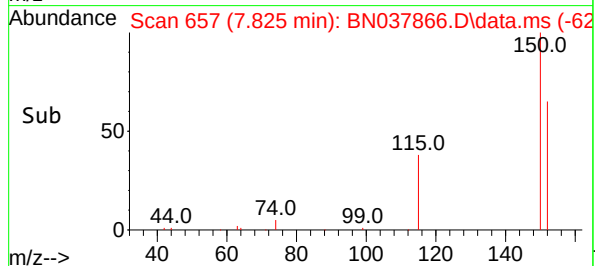


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

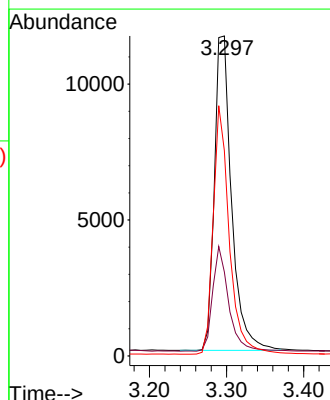
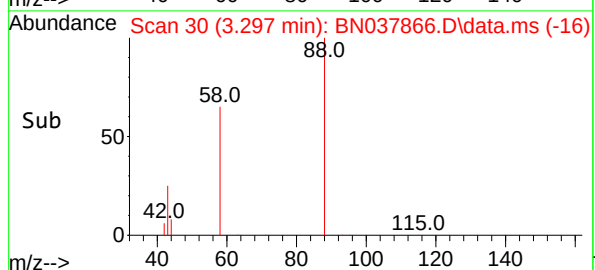
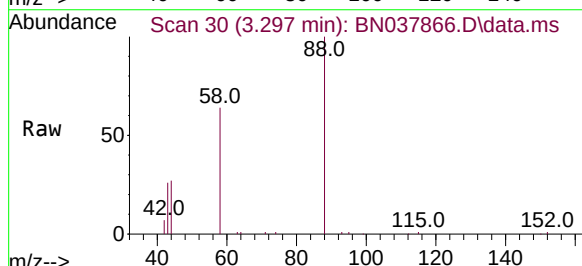


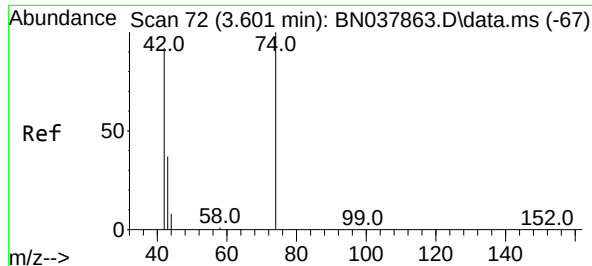
Tgt Ion:152 Resp: 5486
Ion Ratio Lower Upper
152 100
150 151.9 121.0 181.4
115 59.6 47.4 71.0



#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

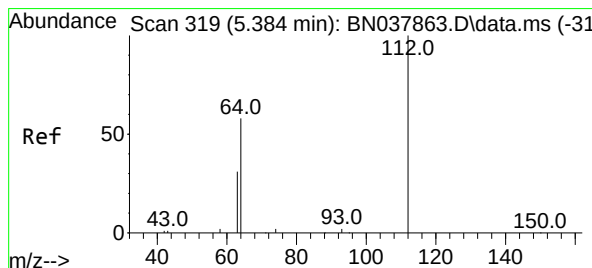
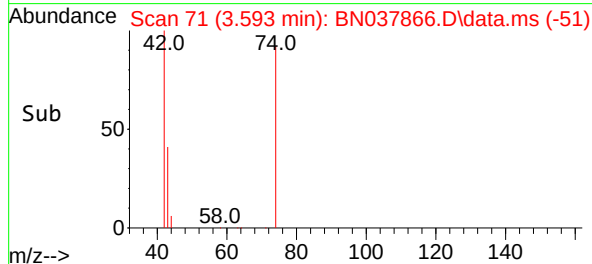
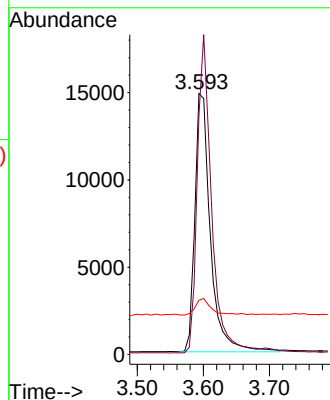
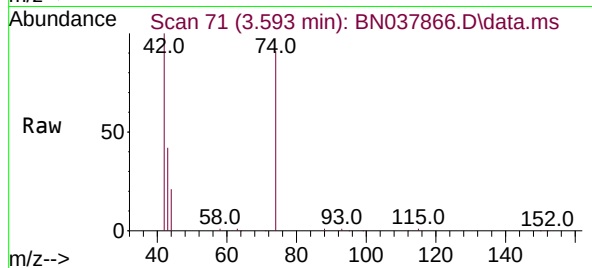




#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

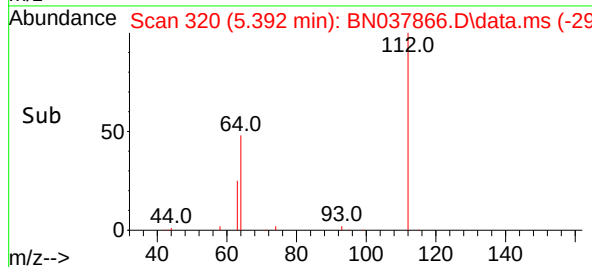
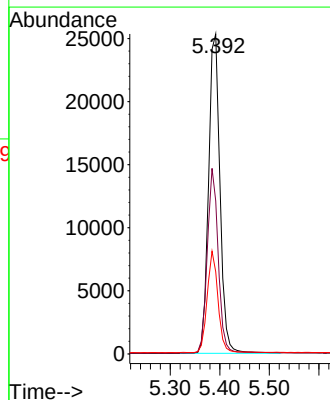
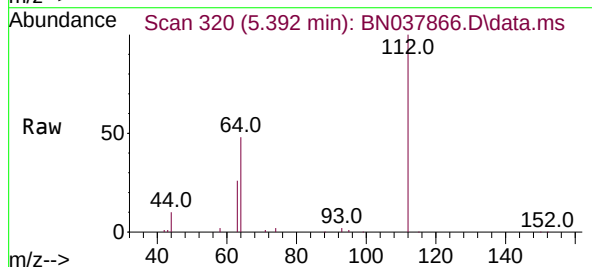
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

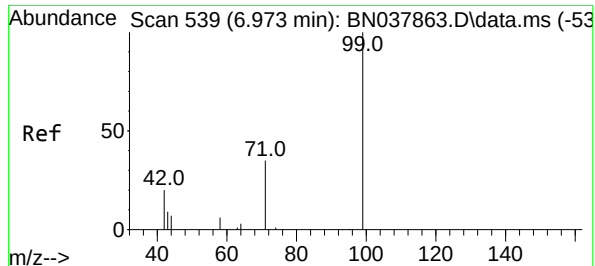
Tgt Ion: 42 Resp: 24113
Ion Ratio Lower Upper
42 100
74 112.5 93.4 140.0
44 6.3 22.2 33.4#



#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

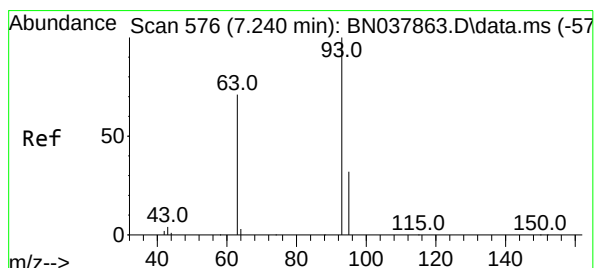
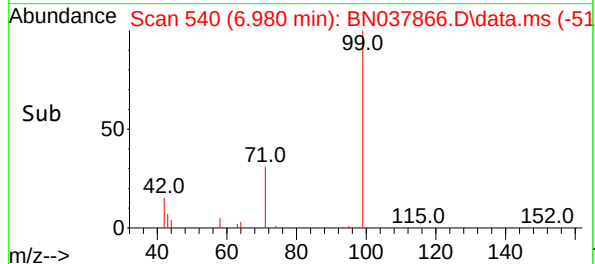
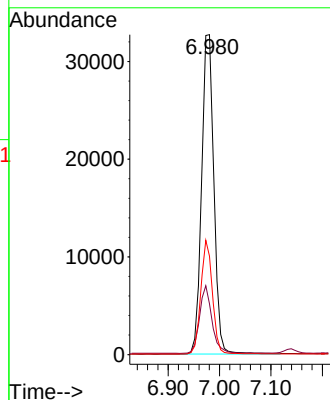
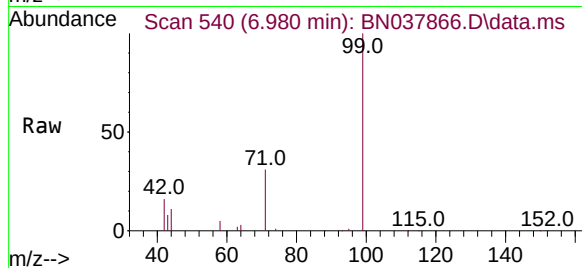
Tgt Ion: 99 Resp: 54237

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

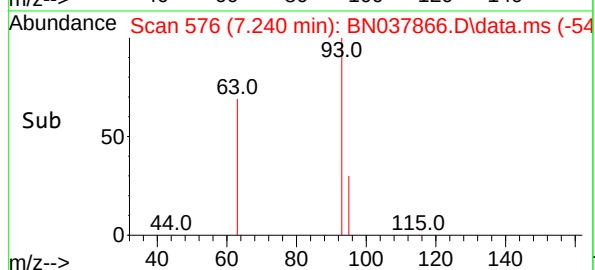
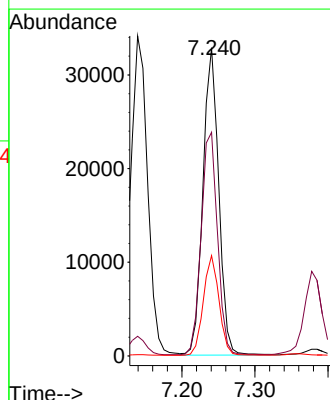
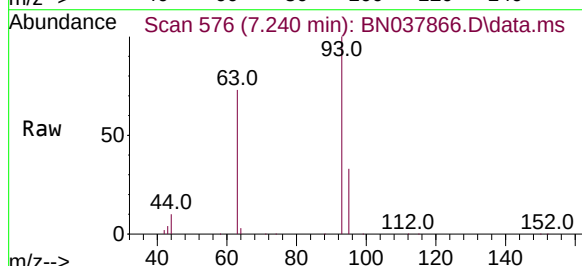
Tgt Ion: 93 Resp: 49318

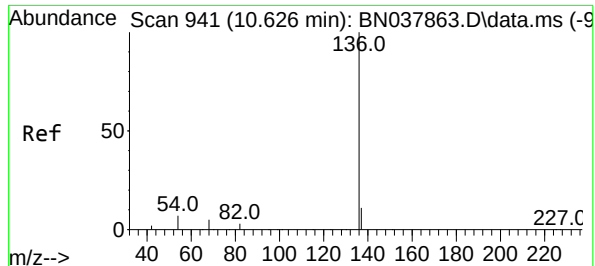
Ion Ratio Lower Upper

93 100

63 74.8 60.1 90.1

95 32.1 25.4 38.2

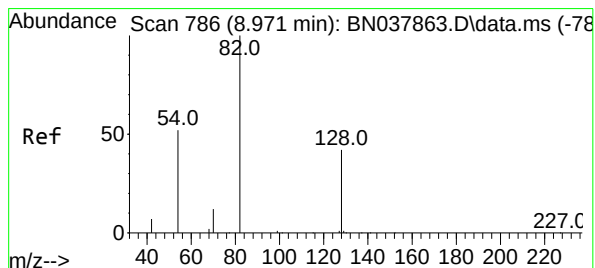
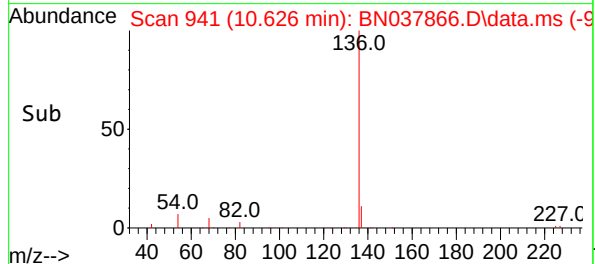
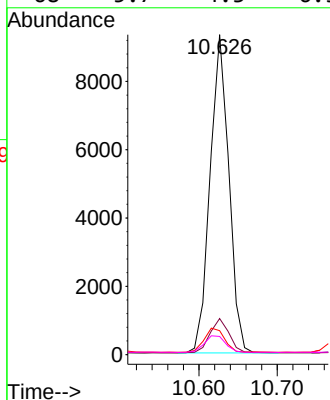
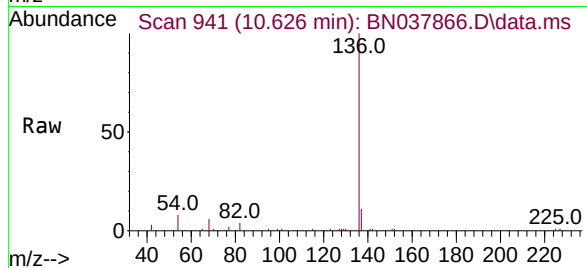




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

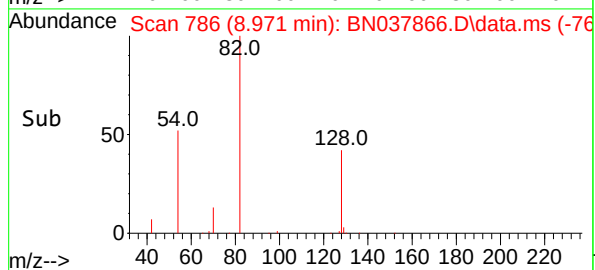
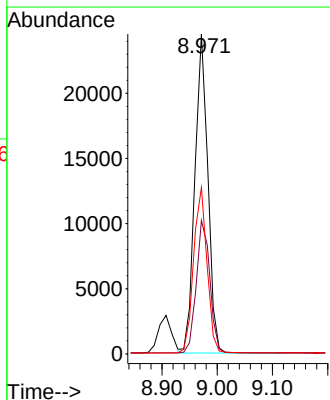
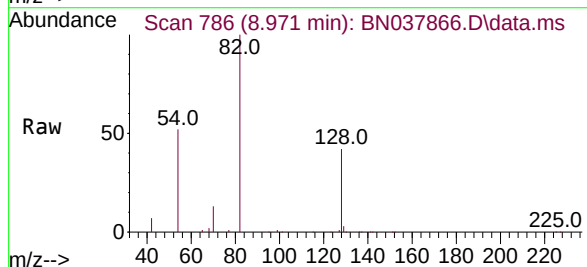
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

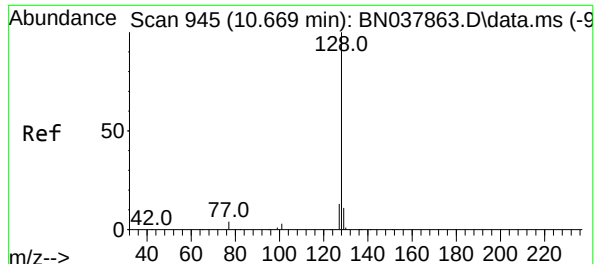
Tgt Ion:	136	Resp:	15583
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5



#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

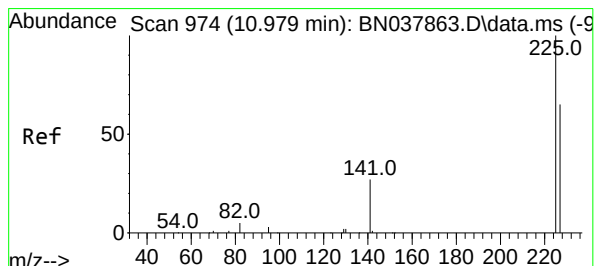
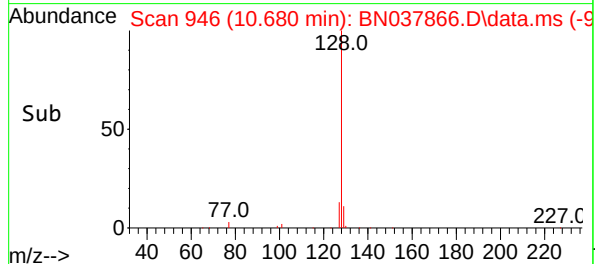
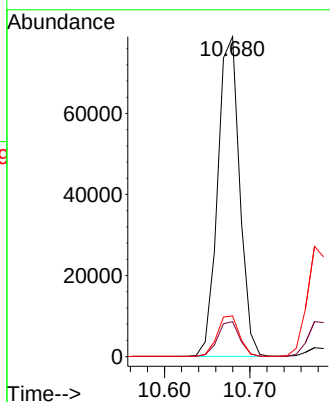
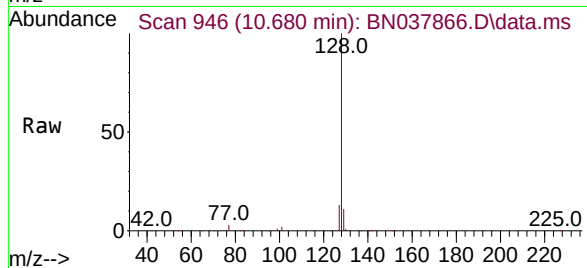




#9
Naphthalene
Concen: 3.301 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

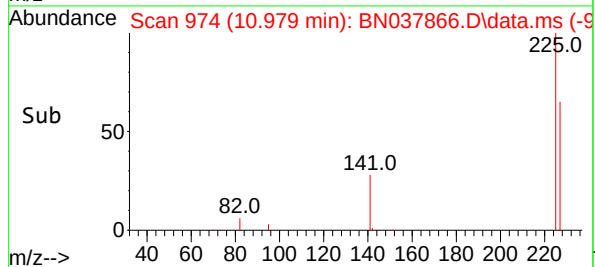
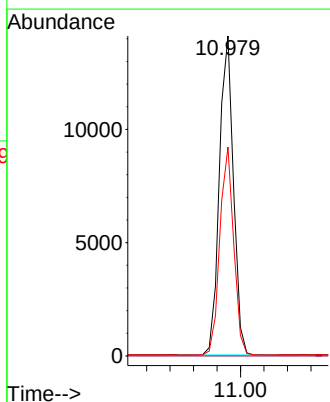
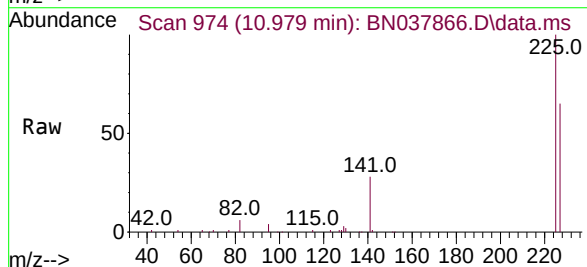
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

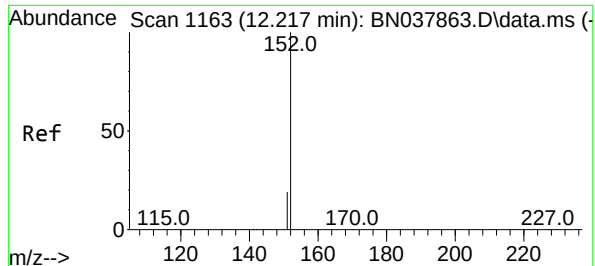
Tgt Ion:128 Resp: 141732
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 12.7 11.0 16.6



#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

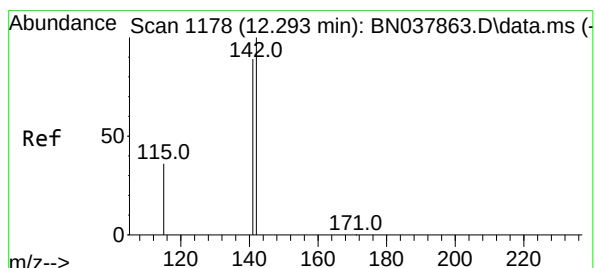
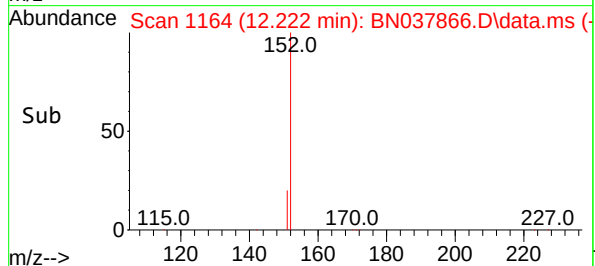
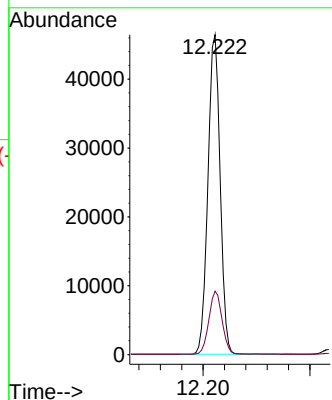
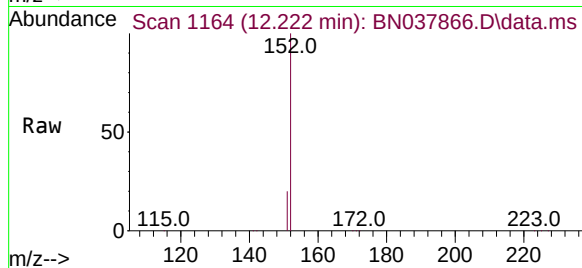




#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

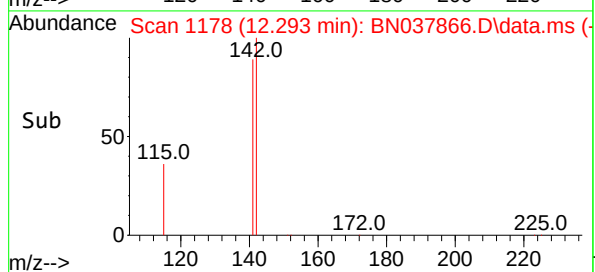
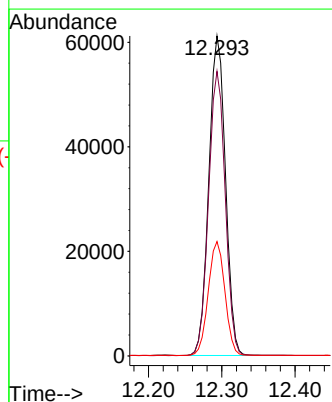
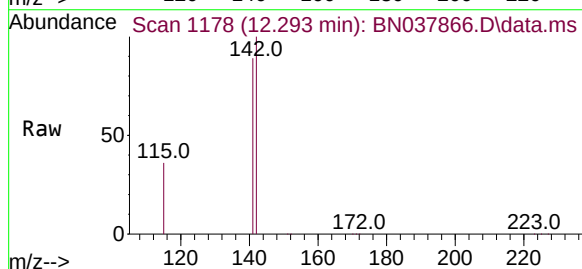
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

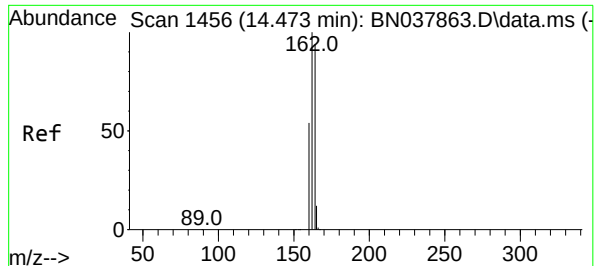
Tgt Ion:152 Resp: 73211
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#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

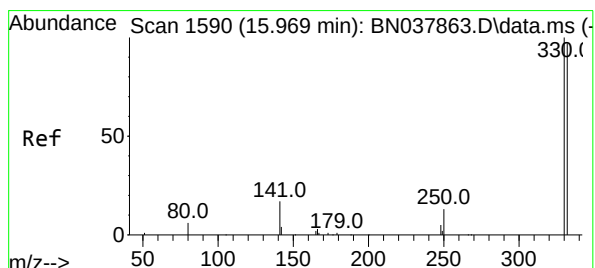
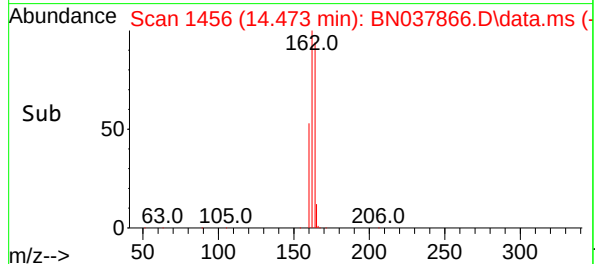
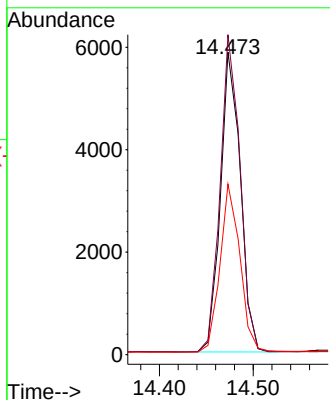
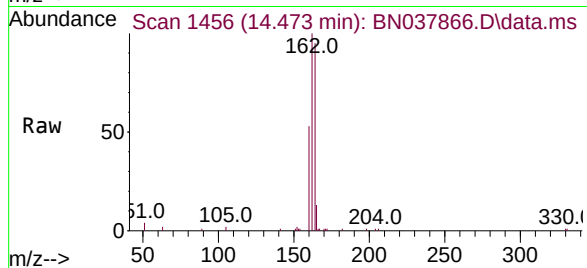




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

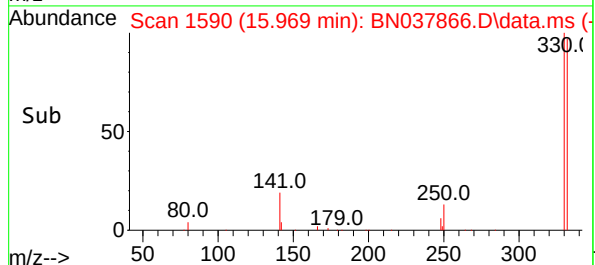
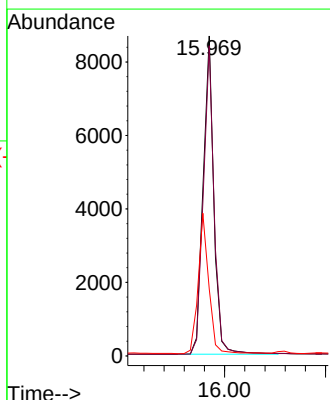
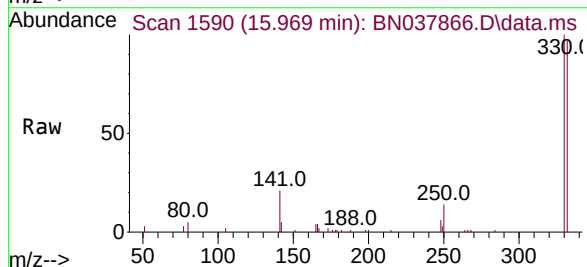
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

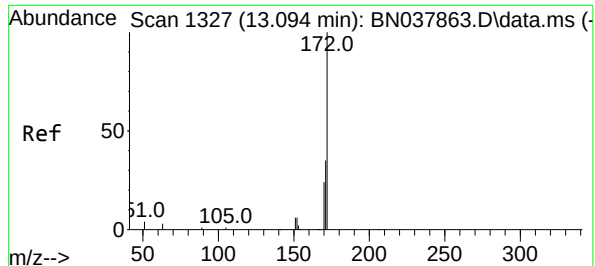
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.8	127.2
160	56.4	46.1	69.1



#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

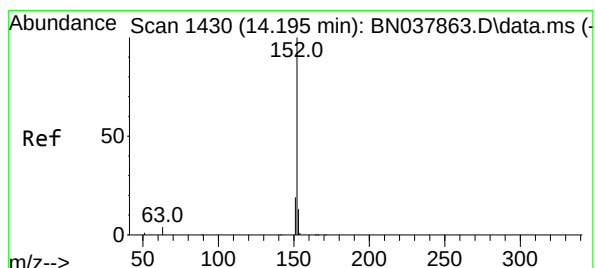
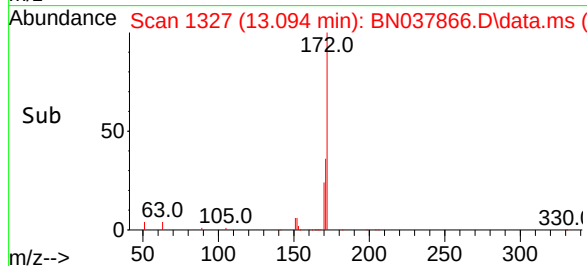
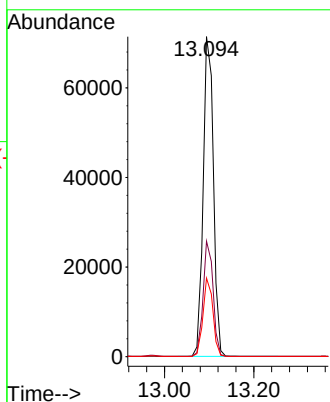
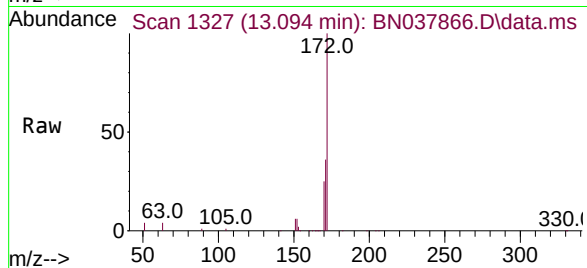




#15
2-Fluorobiphenyl
Concen: 3.223 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

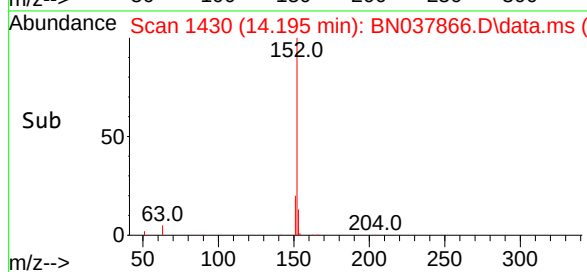
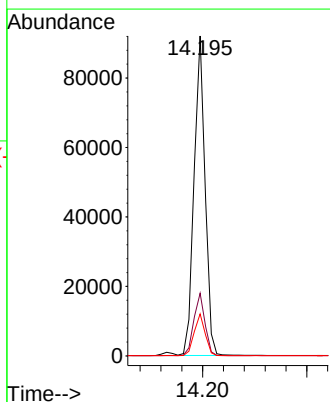
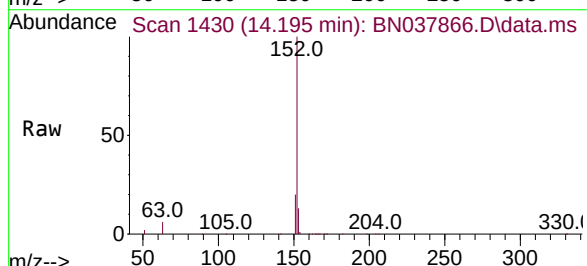
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

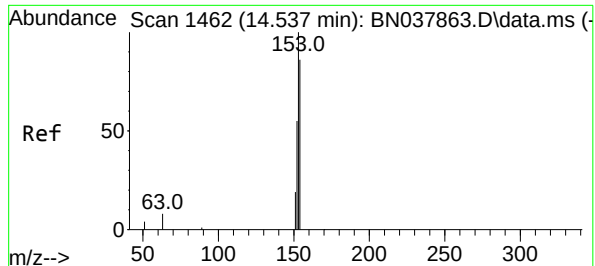
Tgt Ion:172 Resp: 113791
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.6 19.7 29.5



#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

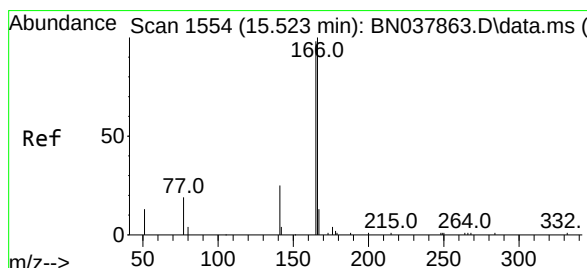
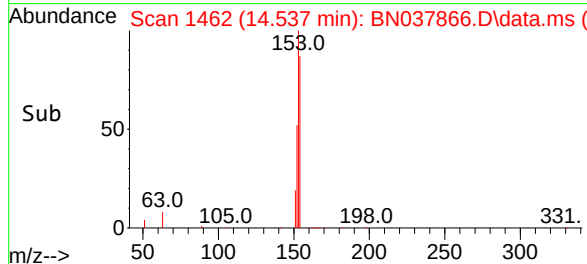
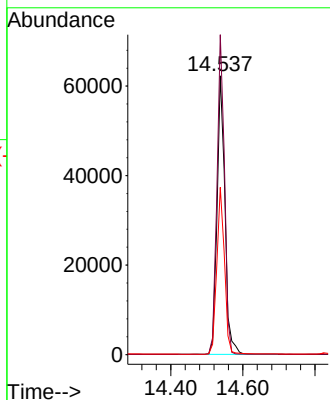
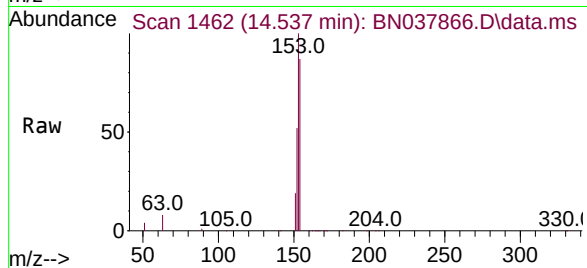




#17
Acenaphthene
Concen: 3.392 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

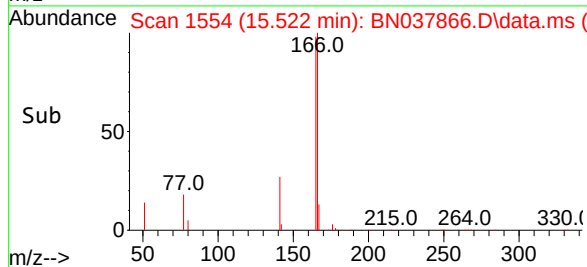
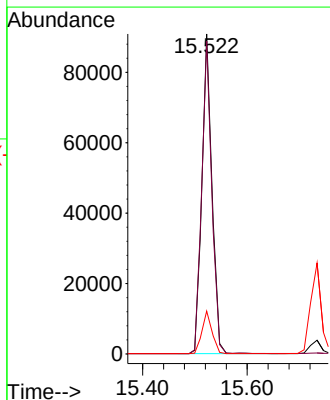
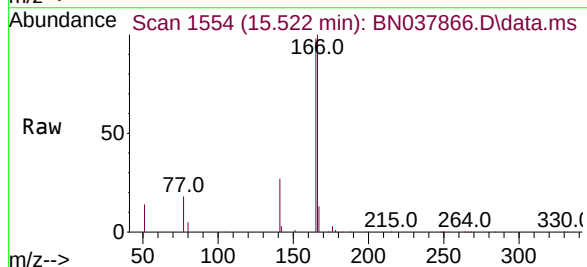
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

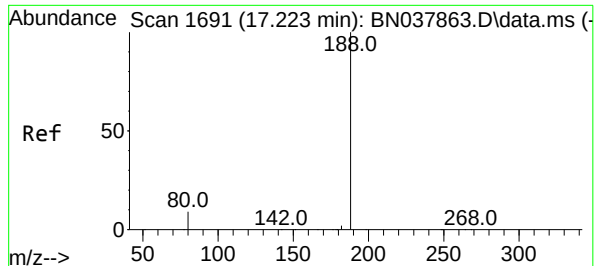
Tgt Ion	154	Resp	94611
Ion Ratio	Lower	Upper	
154	100		
153	109.6	90.5	135.7
152	58.7	51.8	77.8



#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

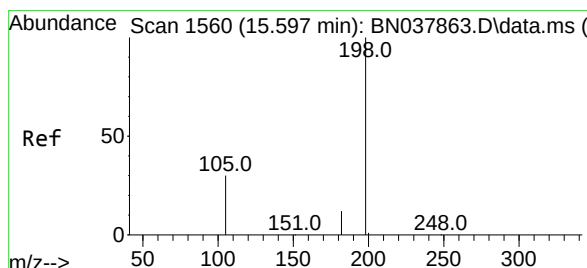
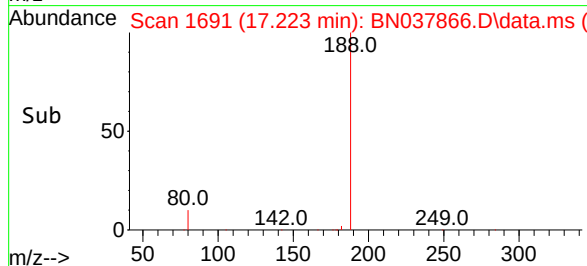
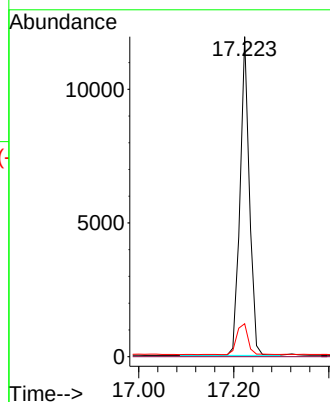
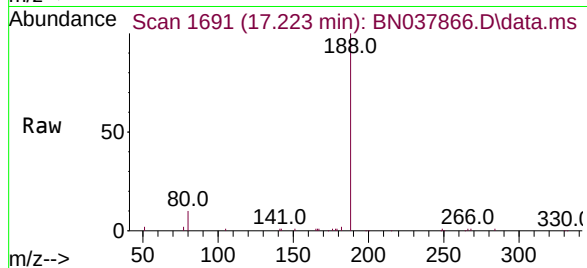
Tgt Ion:188 Resp: 16225

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

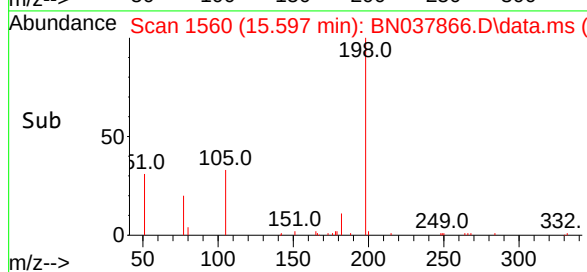
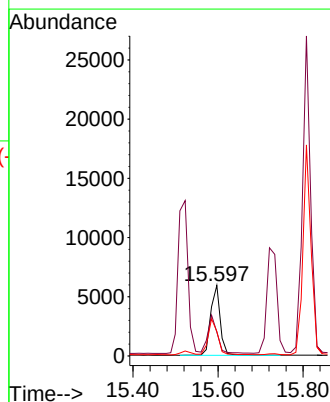
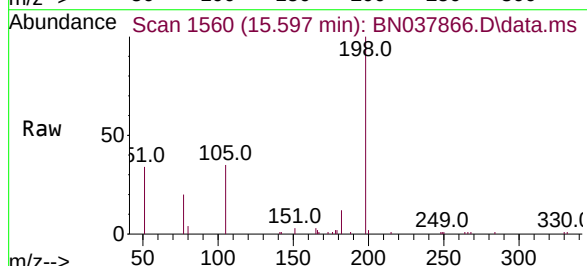
Tgt Ion:198 Resp: 9172

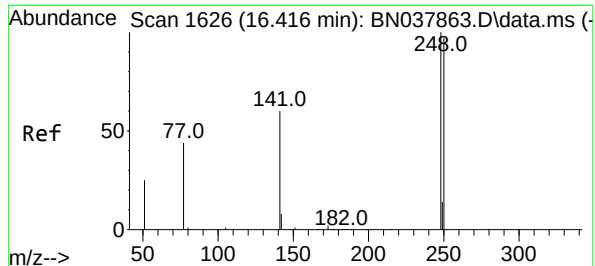
Ion Ratio Lower Upper

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

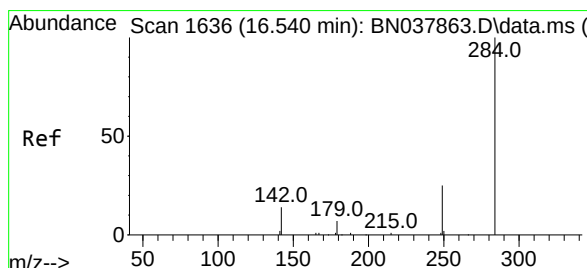
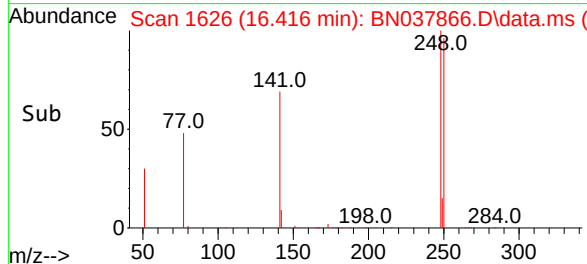
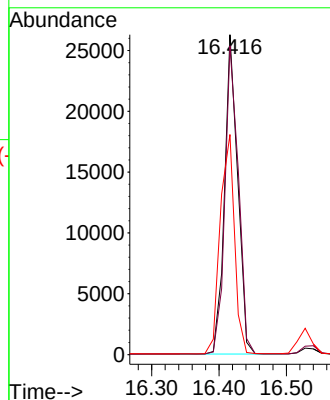
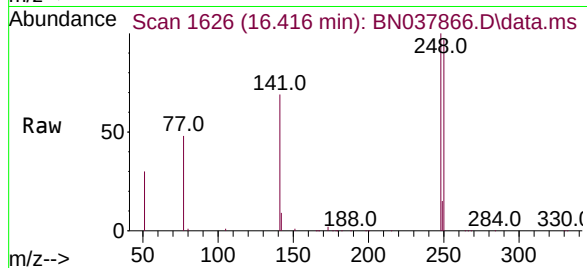
Tgt Ion:248 Resp: 35637

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

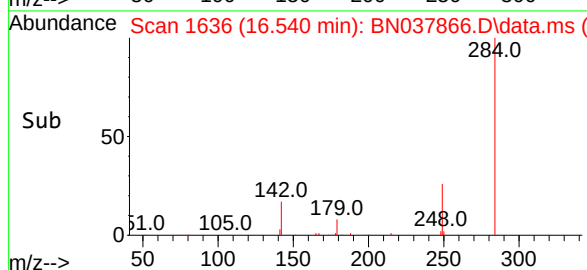
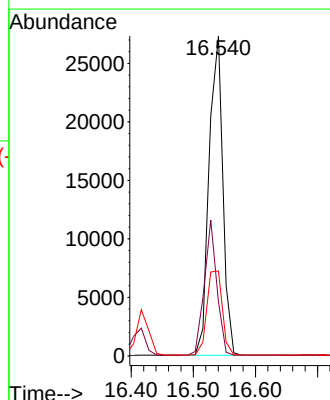
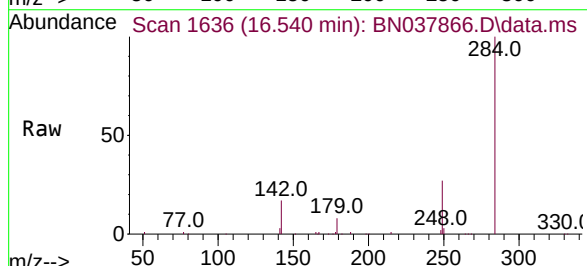
Tgt Ion:284 Resp: 41902

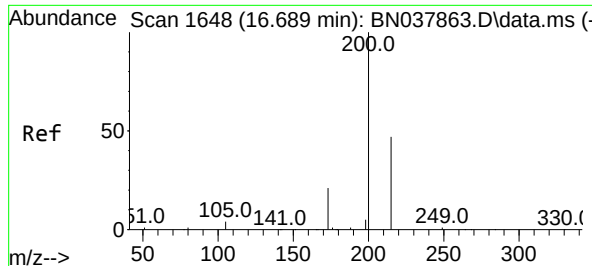
Ion Ratio Lower Upper

284 100

142 38.5 30.9 46.3

249 29.5 23.9 35.9

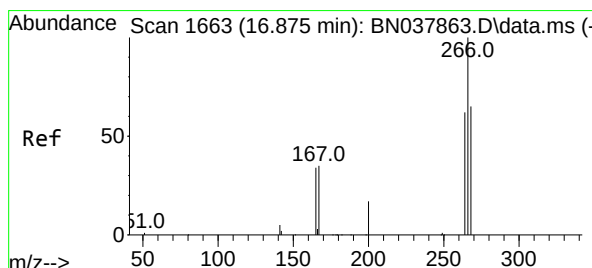
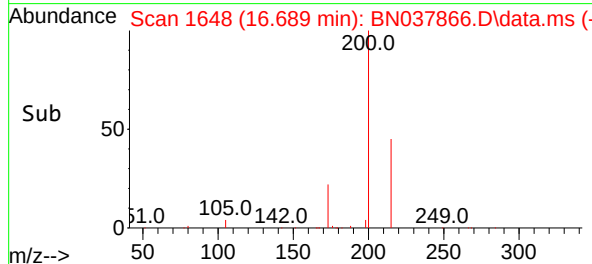
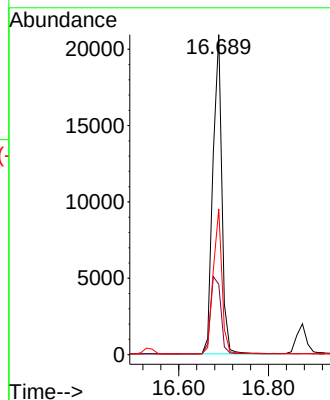
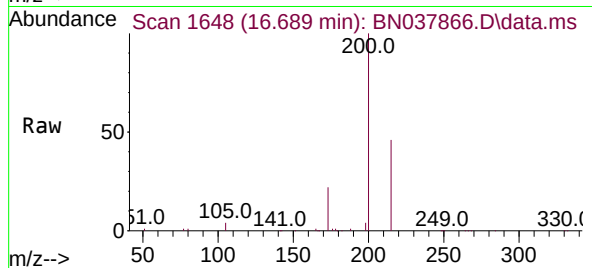




#23
Atrazine
Concen: 3.616 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

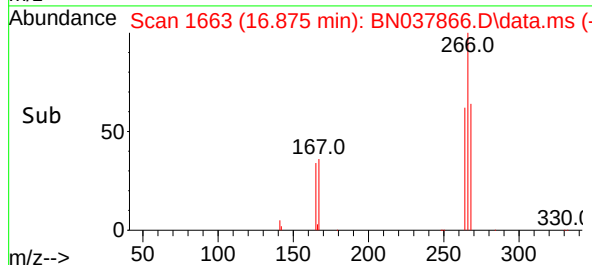
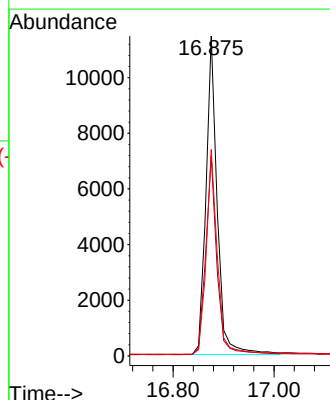
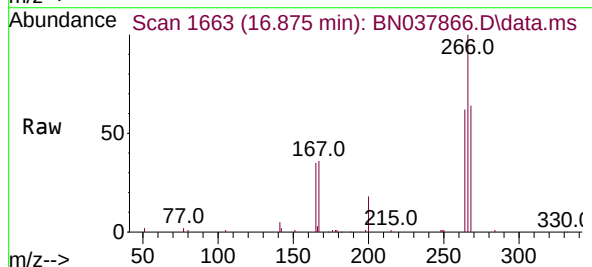
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

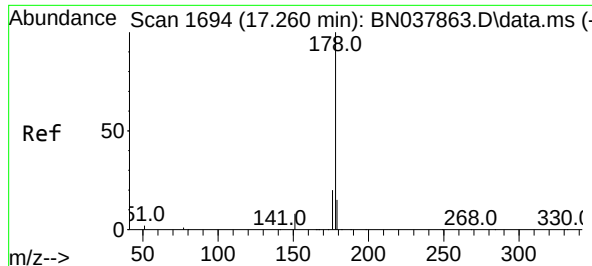
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.0	18.3	27.5
215	45.5	38.6	58.0



#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	Ratio	Lower	Upper
266	100		
264	62.5	50.9	76.3
268	64.0	54.3	81.5

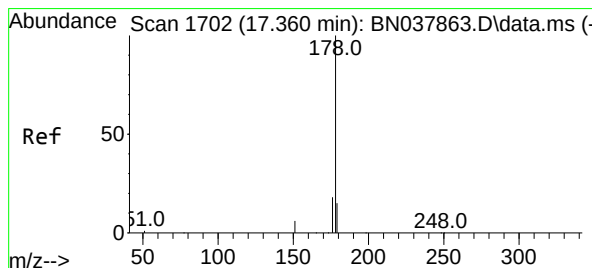
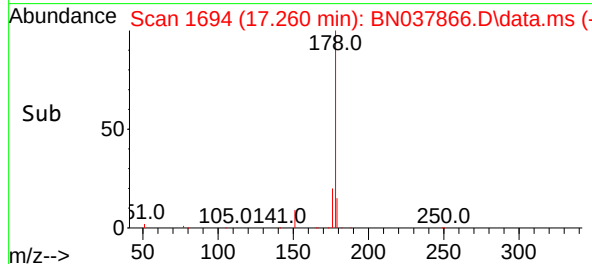
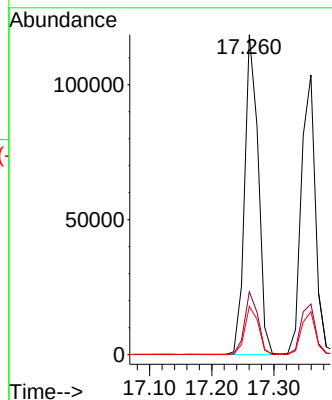
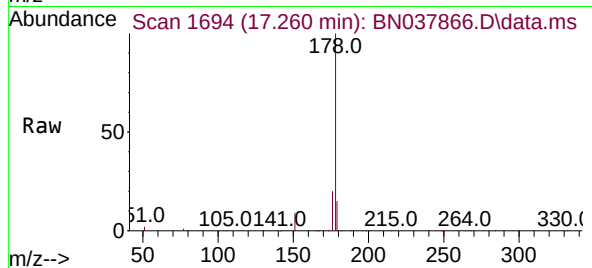




#25
Phenanthrene
Concen: 3.352 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

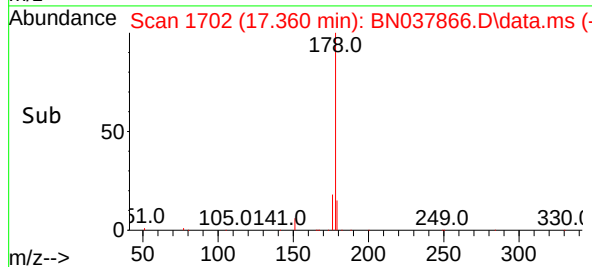
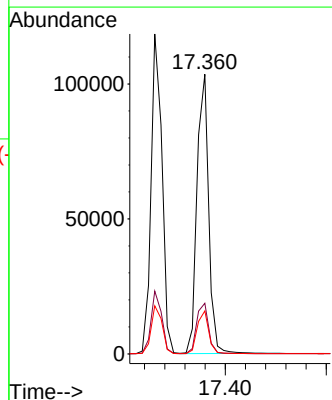
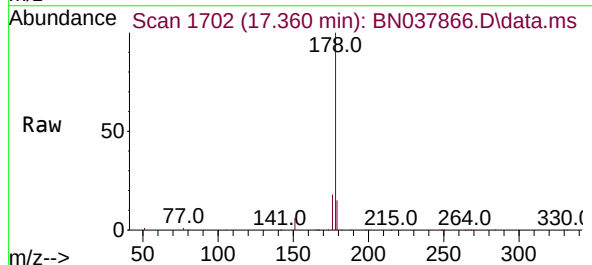
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

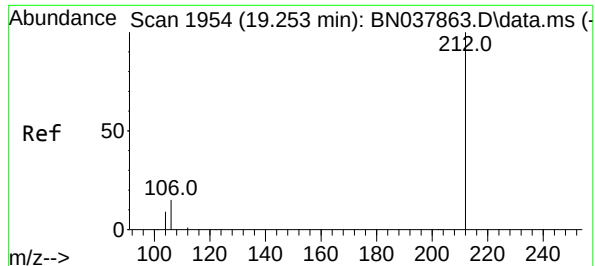
Tgt Ion:178 Resp: 178985
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.1 12.3 18.5



#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

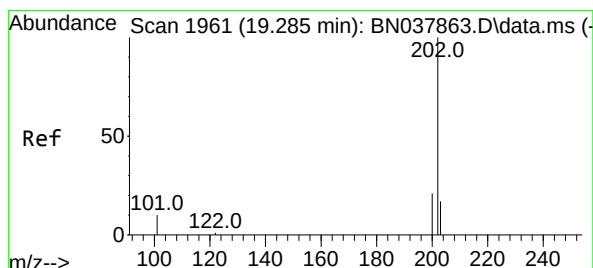
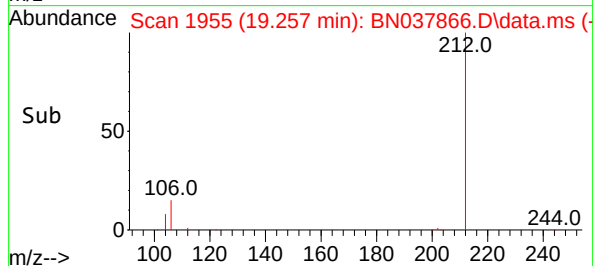
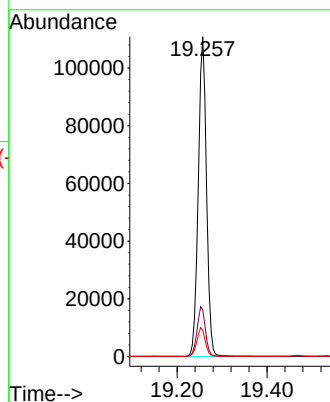
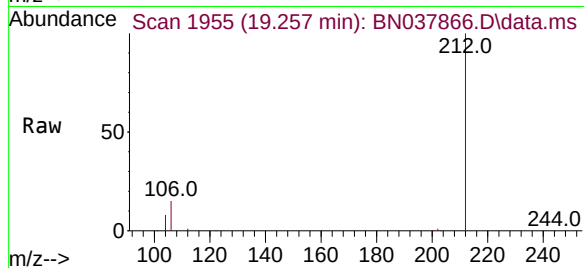
Tgt Ion:212 Resp: 140845

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

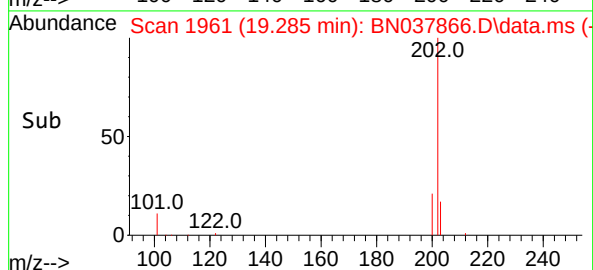
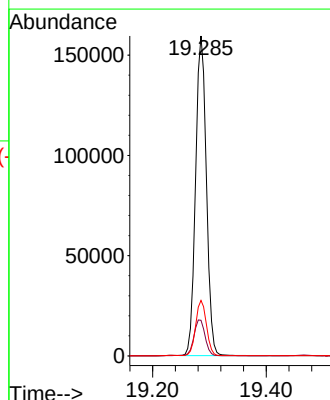
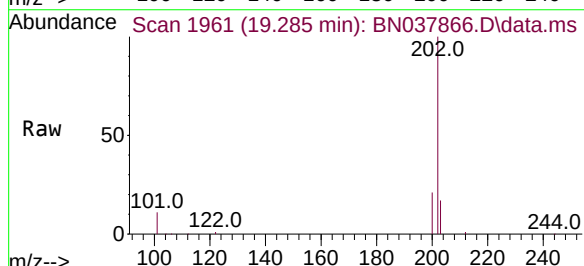
Tgt Ion:202 Resp: 209920

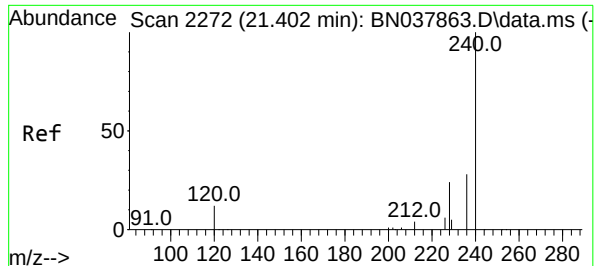
Ion Ratio Lower Upper

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

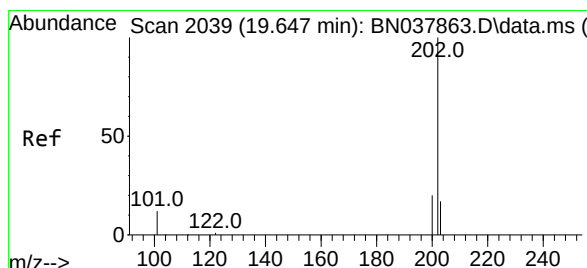
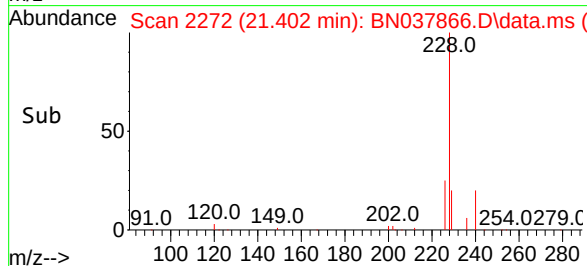
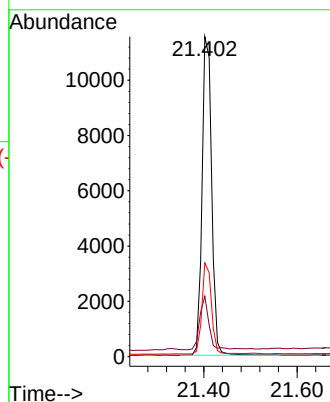
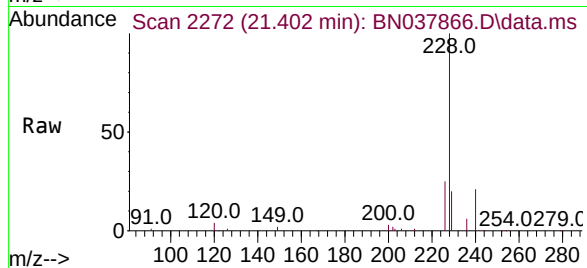
Tgt Ion:240 Resp: 16309

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

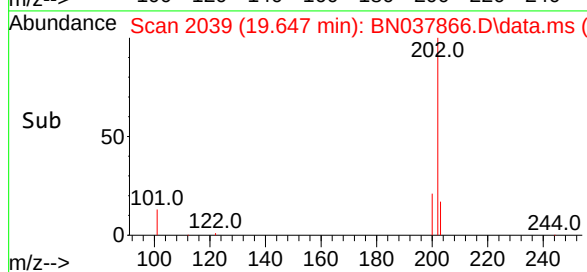
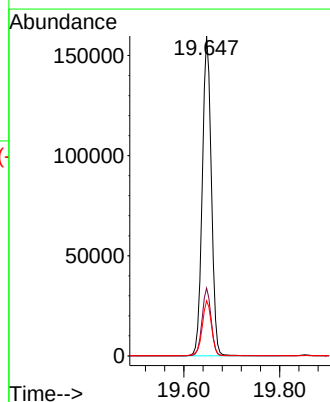
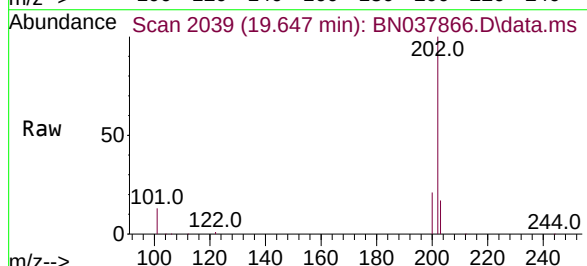
Tgt Ion:202 Resp: 208135

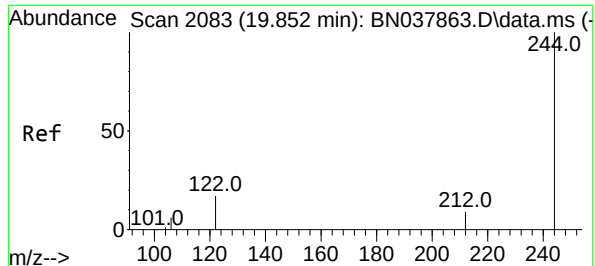
Ion Ratio Lower Upper

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

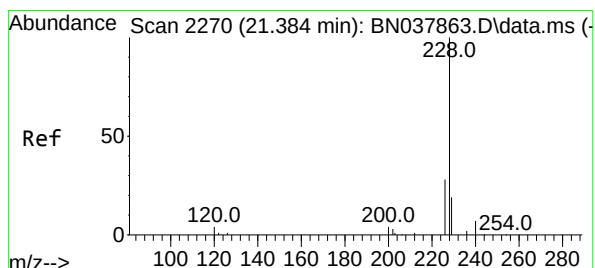
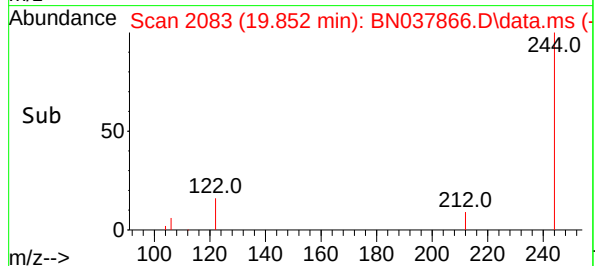
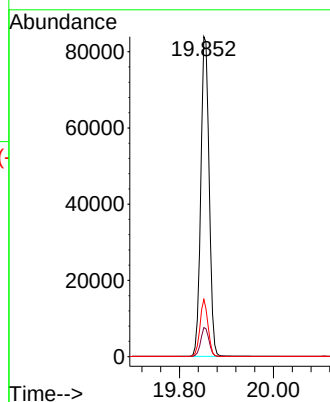
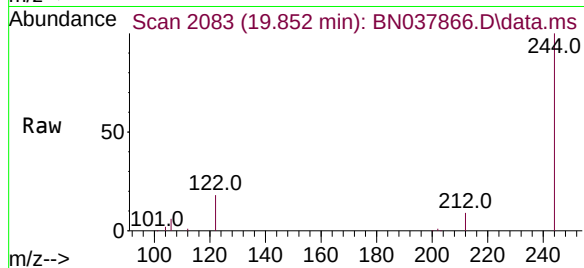
Tgt Ion:244 Resp: 105582

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

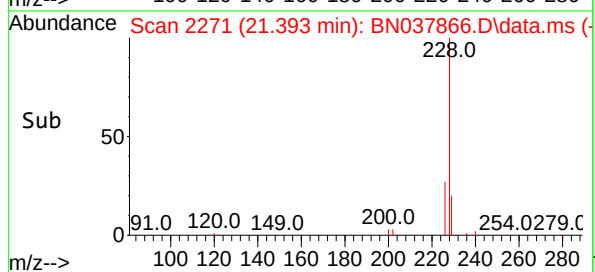
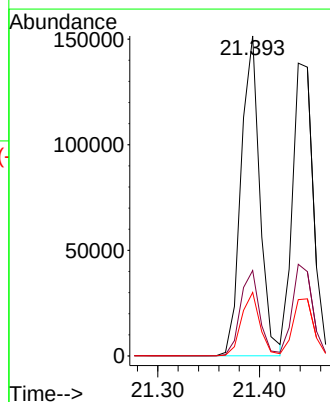
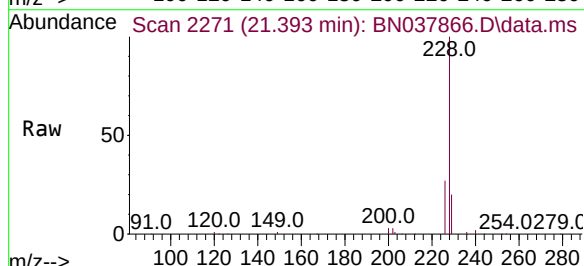
Tgt Ion:228 Resp: 193464

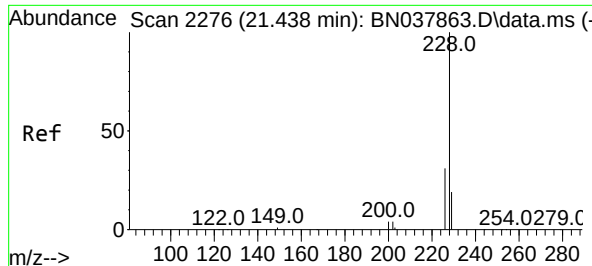
Ion Ratio Lower Upper

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

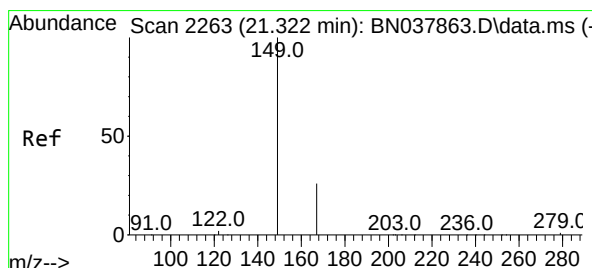
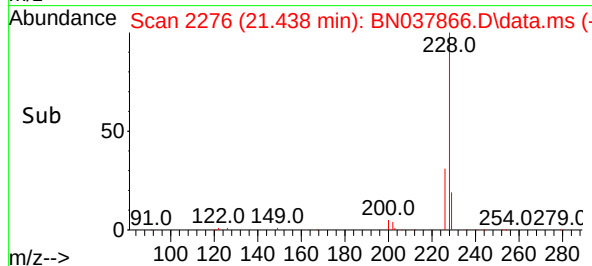
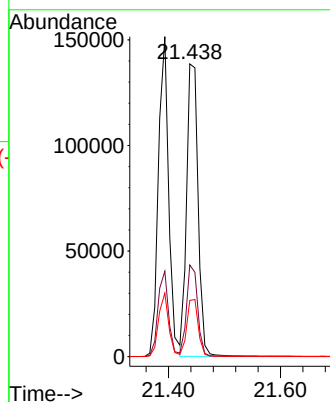
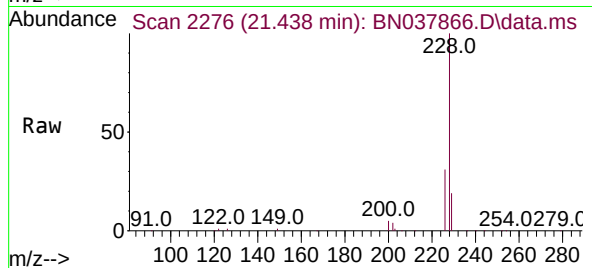
Tgt Ion:228 Resp: 197283

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

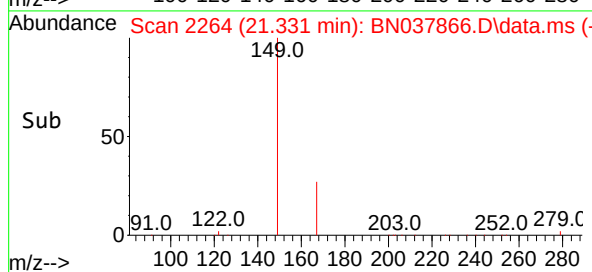
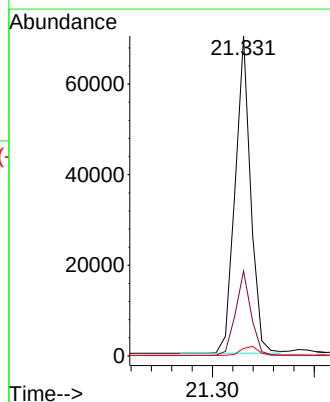
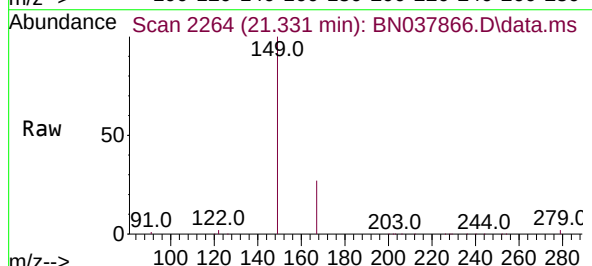
Tgt Ion:149 Resp: 74195

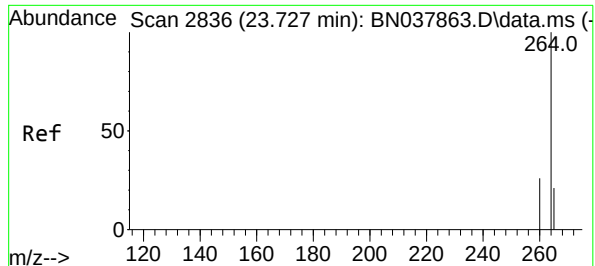
Ion Ratio Lower Upper

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# 2839

Delta R.T. 0.009 min

Lab File: BN037866.D

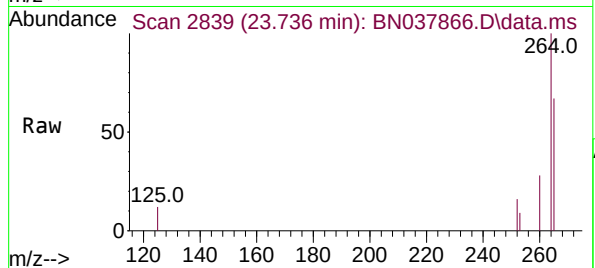
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



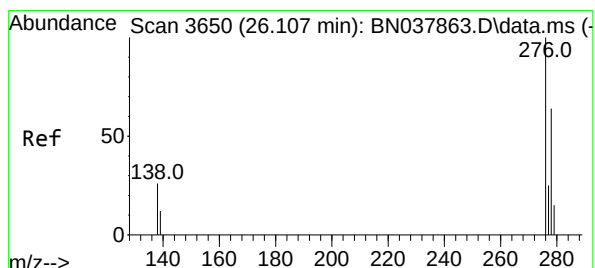
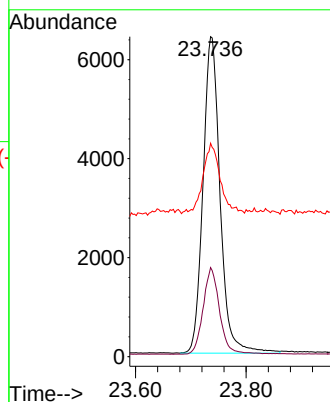
Tgt Ion:264 Resp: 13684

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

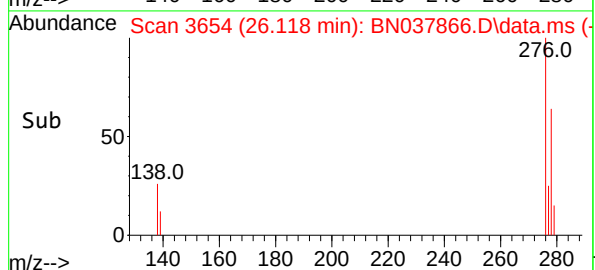
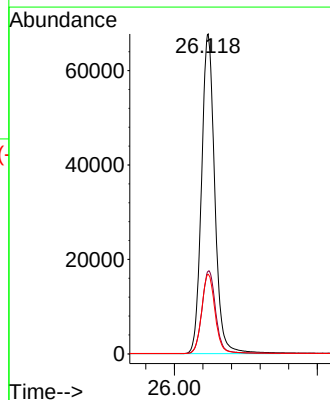
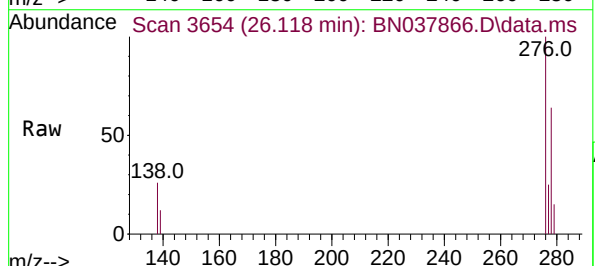
Tgt Ion:276 Resp: 218487

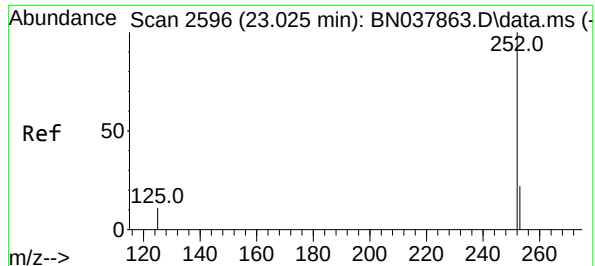
Ion Ratio Lower Upper

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

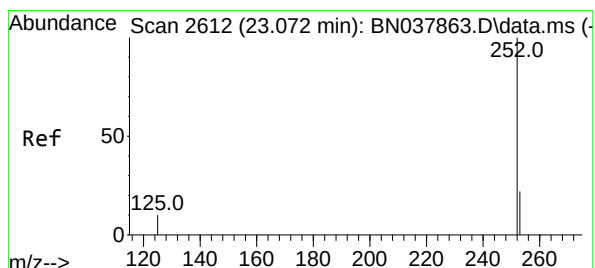
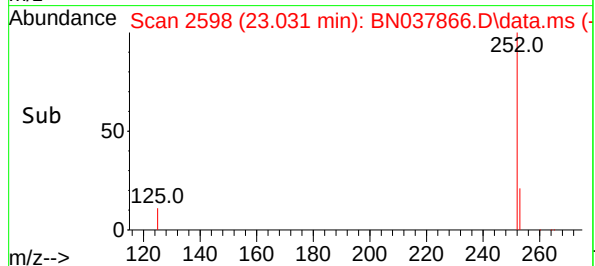
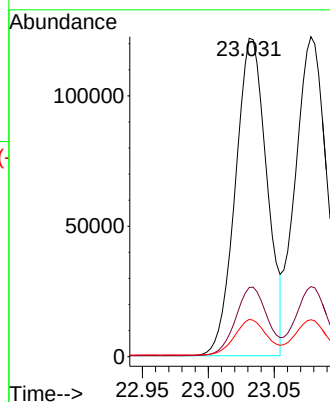
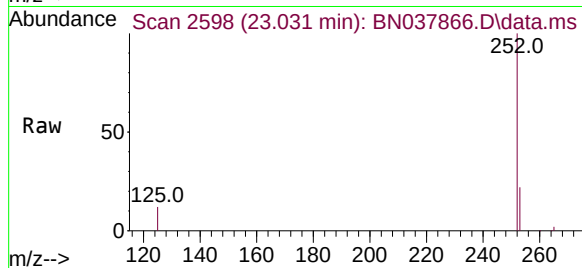
Tgt Ion:252 Resp: 202282

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

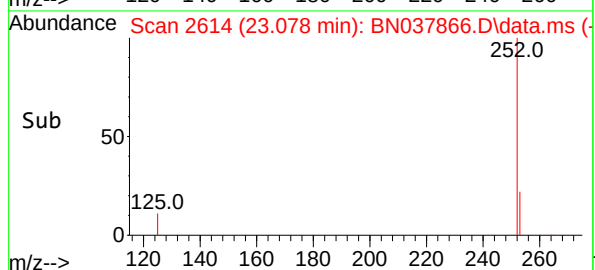
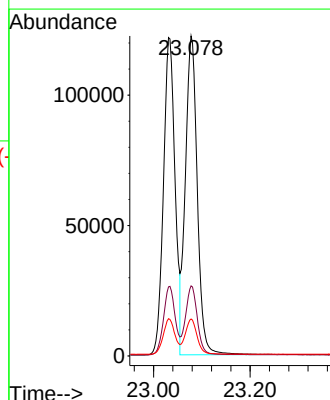
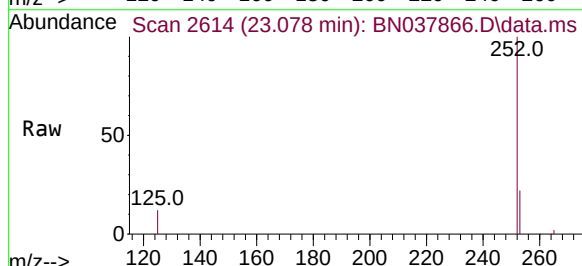
Tgt Ion:252 Resp: 209819

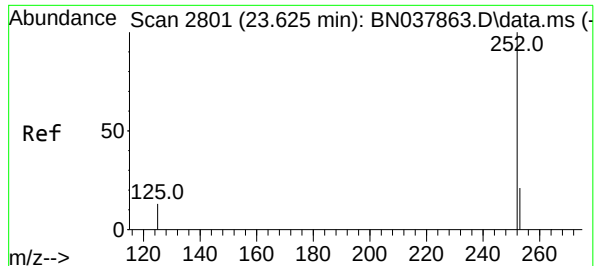
Ion Ratio Lower Upper

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

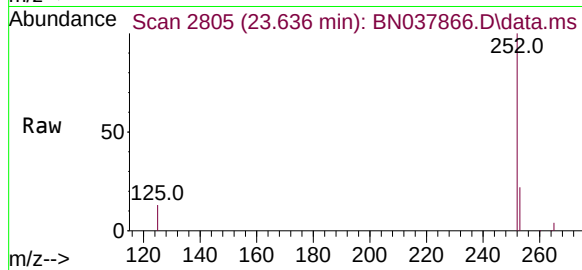
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



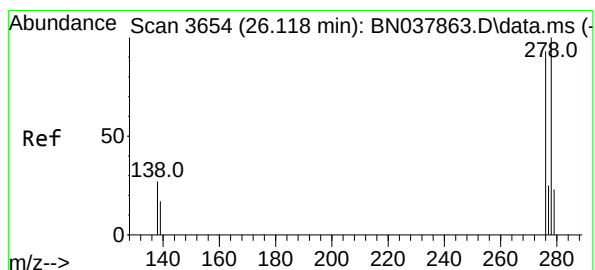
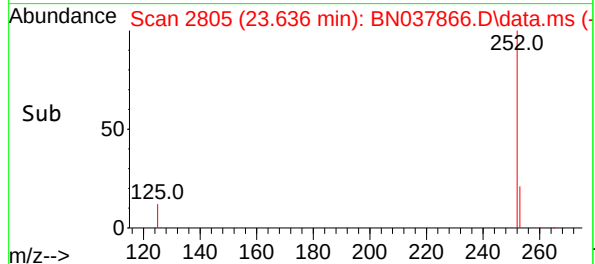
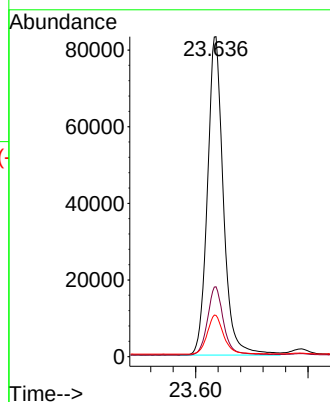
Tgt Ion:252 Resp: 163321

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

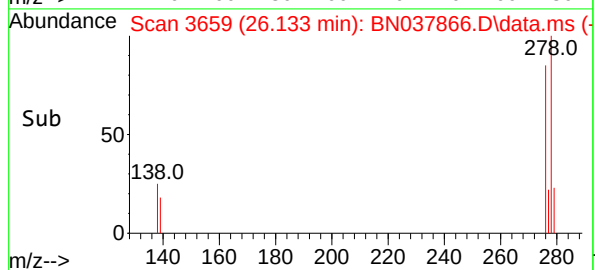
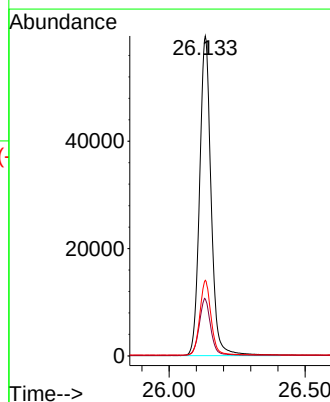
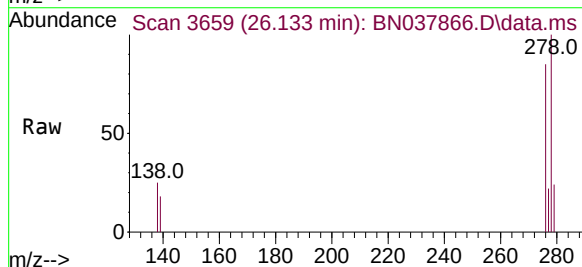
Tgt Ion:278 Resp: 173724

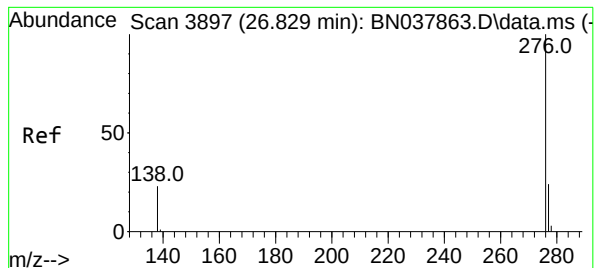
Ion Ratio Lower Upper

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

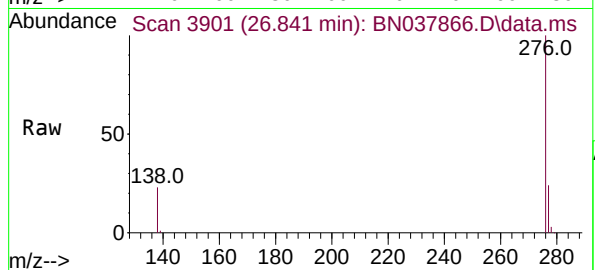
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



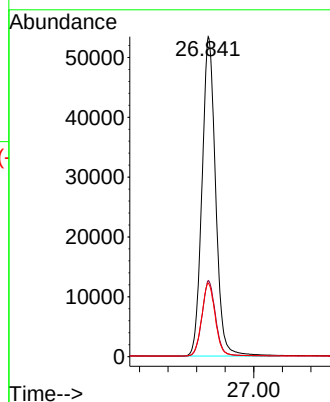
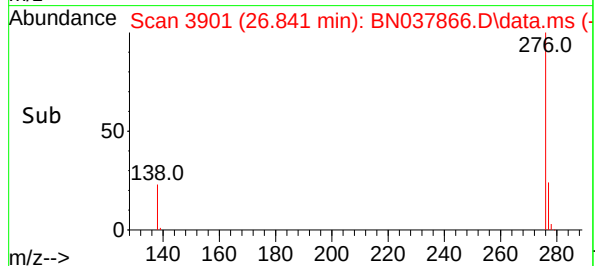
Tgt Ion:276 Resp: 176617

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

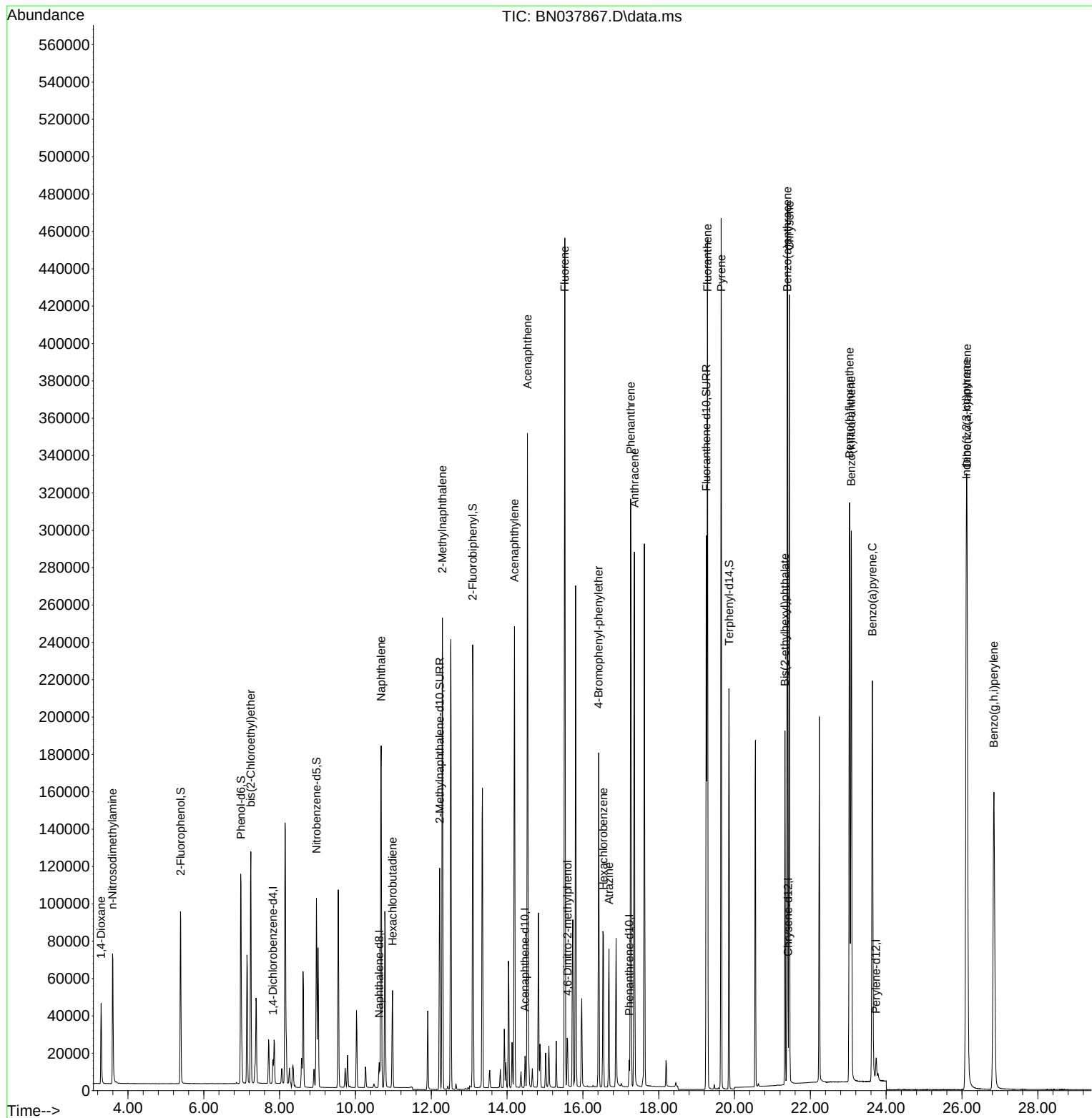
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng	0.00
29) Chrysene-d12	21.411	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

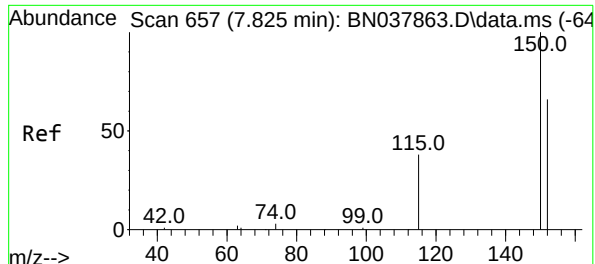
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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

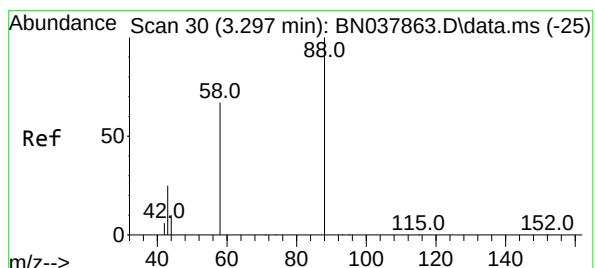
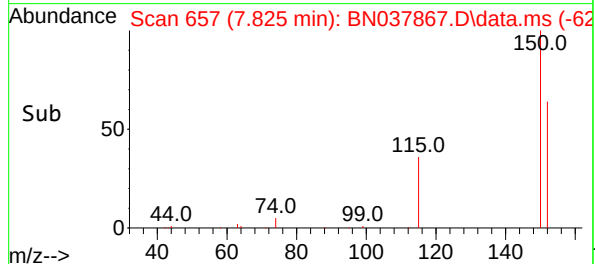
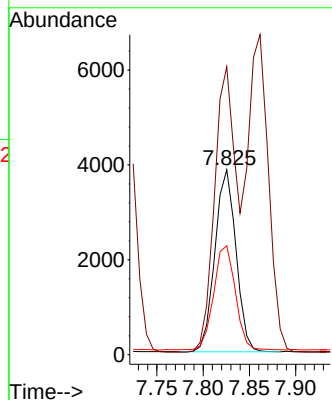
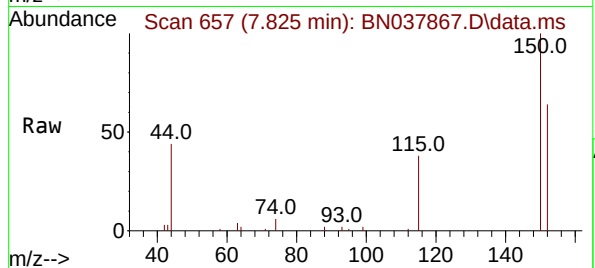




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

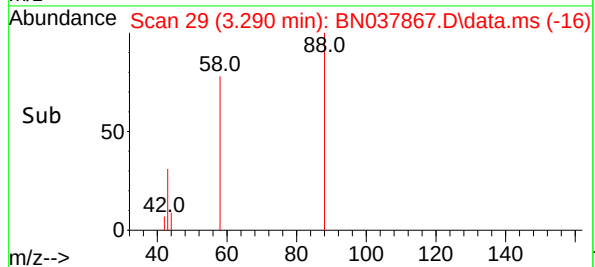
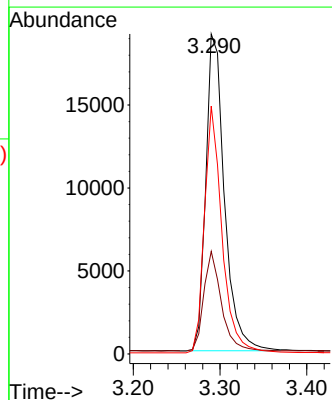
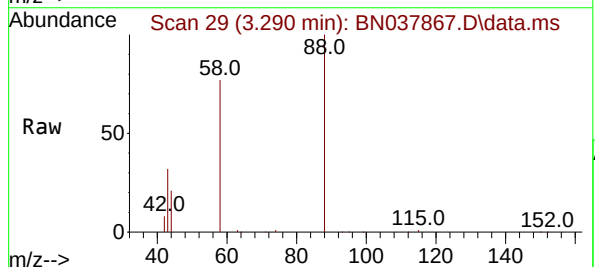
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

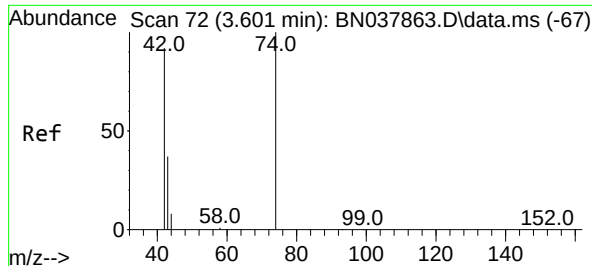
Tgt Ion:152 Resp: 6080
Ion Ratio Lower Upper
152 100
150 155.7 121.0 181.4
115 58.9 47.4 71.0



#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

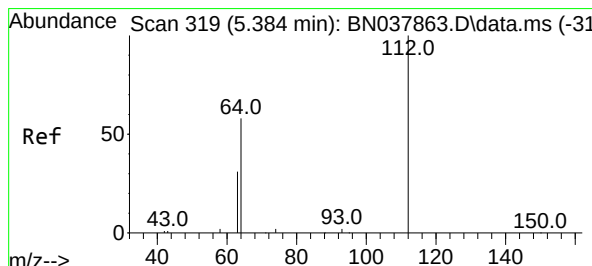
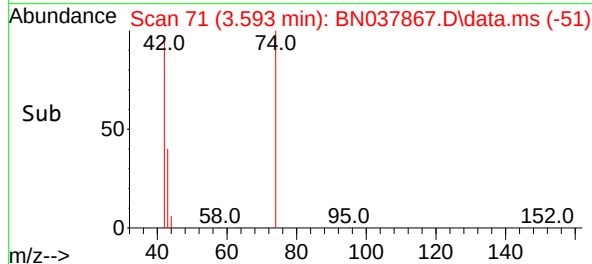
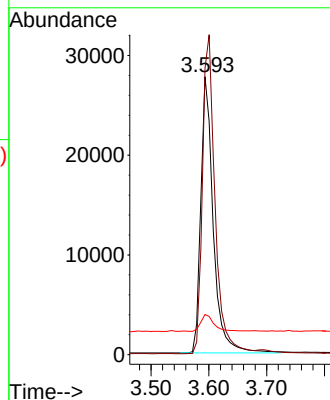
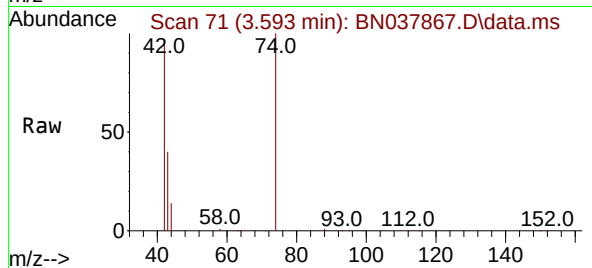




#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

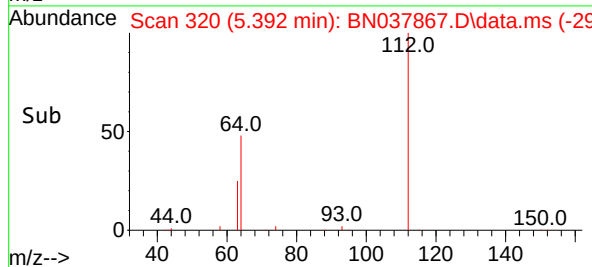
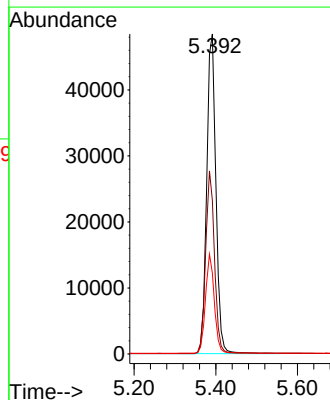
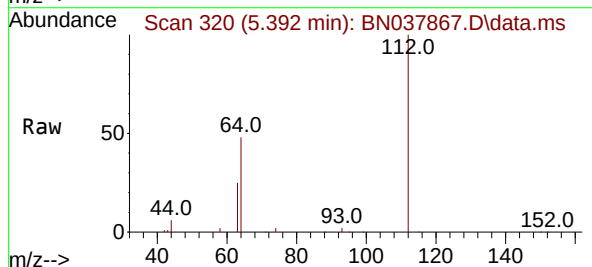
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

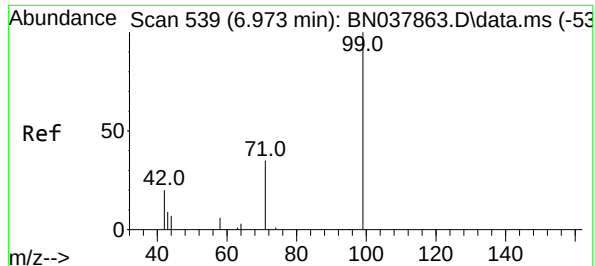
Tgt Ion: 42 Resp: 41574
Ion Ratio Lower Upper
42 100
74 117.0 93.4 140.0
44 6.5 22.2 33.4#



#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

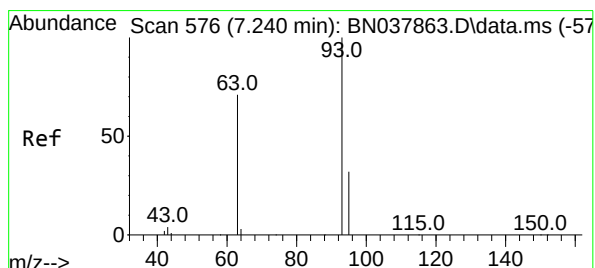
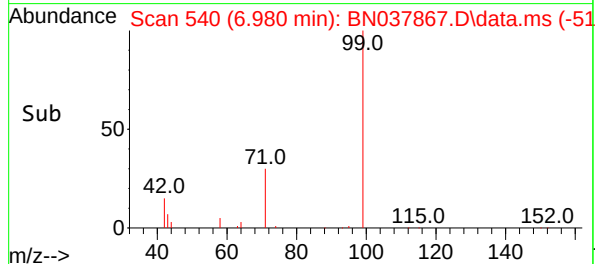
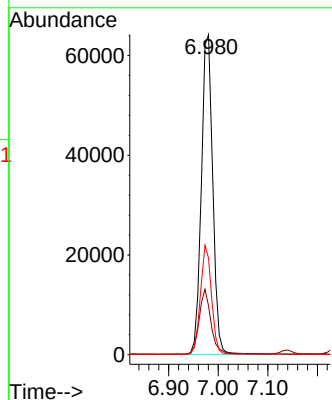
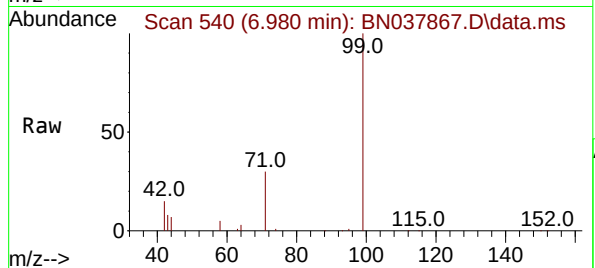




#5
Phenol-d6
Concen: 5.639 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

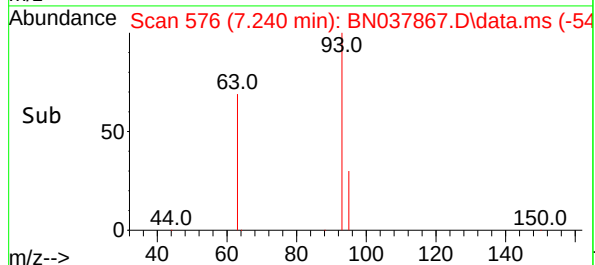
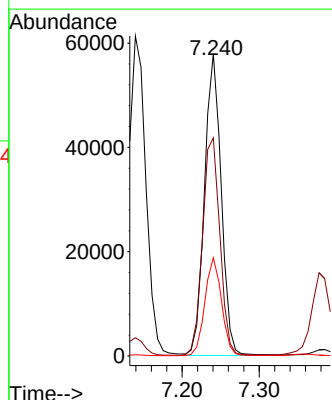
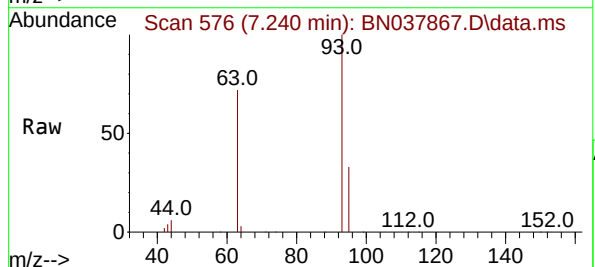
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

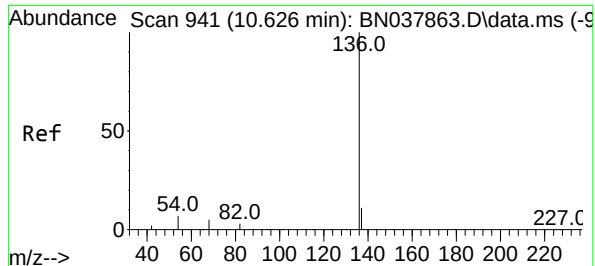
Tgt Ion: 99 Resp: 102802
Ion Ratio Lower Upper
99 100
42 20.6 17.2 25.8
71 33.3 27.3 40.9



#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

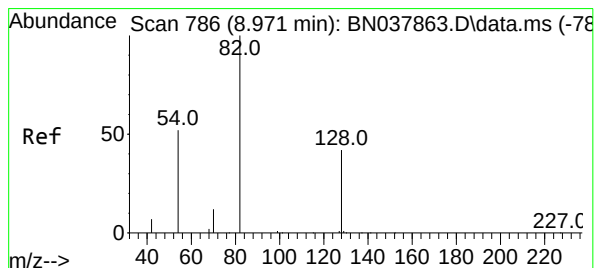
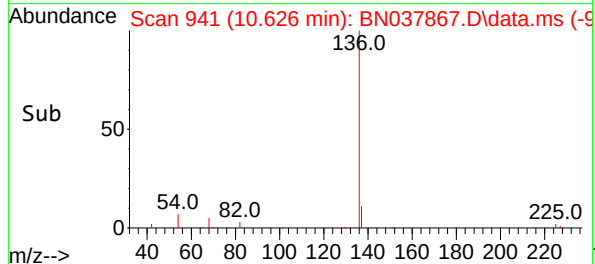
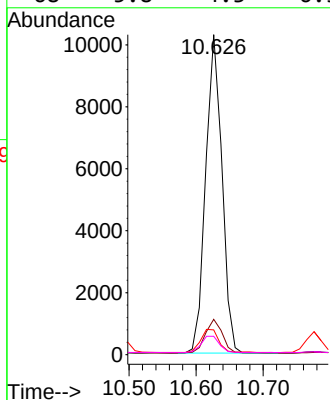
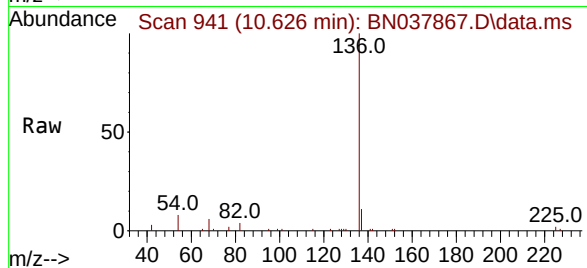




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

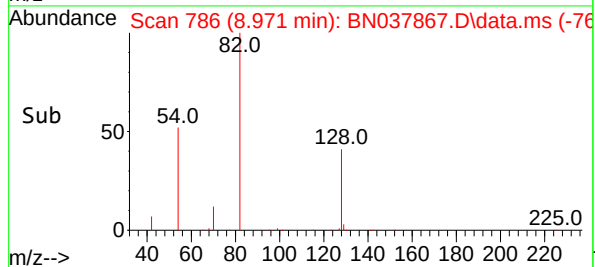
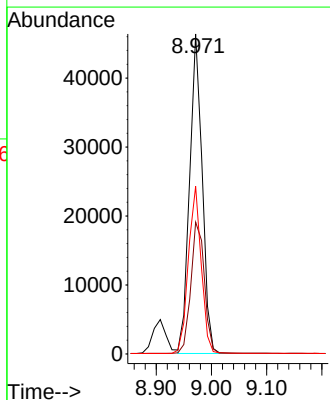
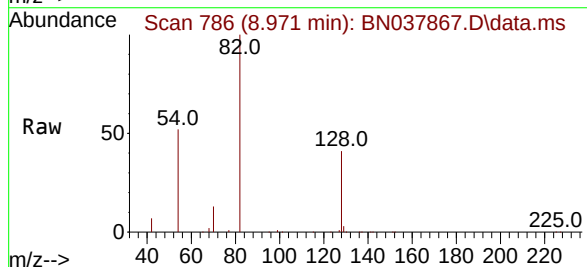
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

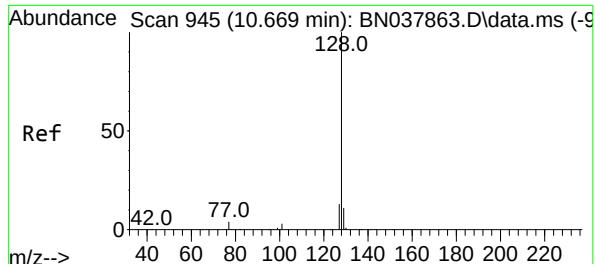
Tgt Ion:	136	Resp:	17301
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5



#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

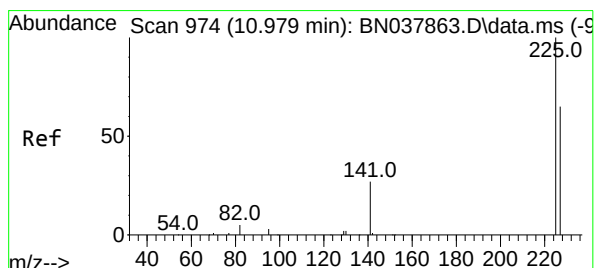
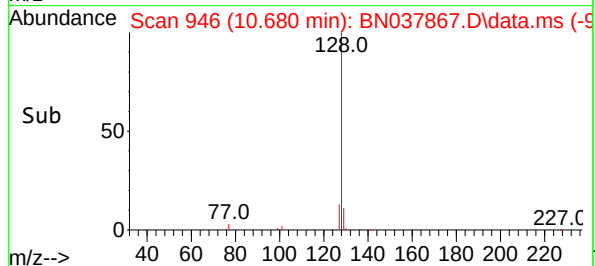
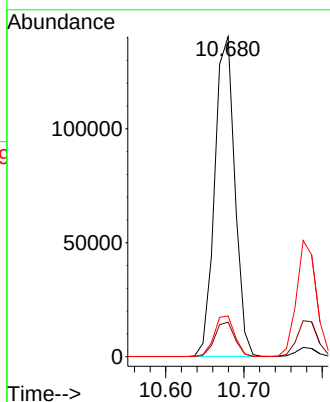
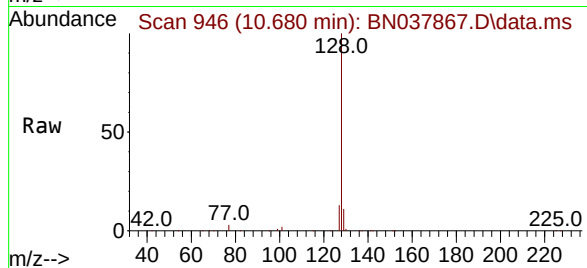




#9
Naphthalene
Concen: 5.264 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

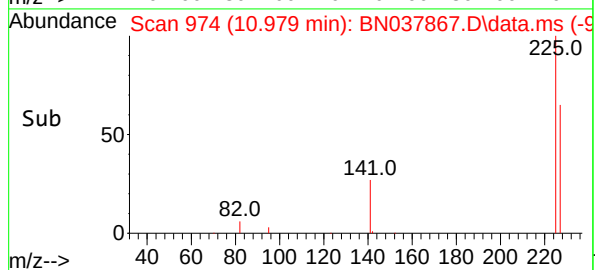
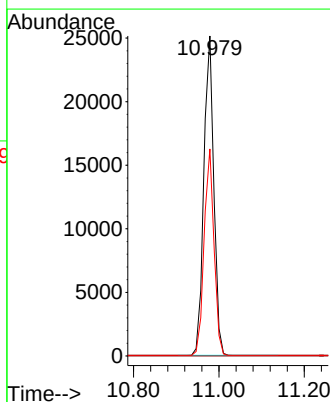
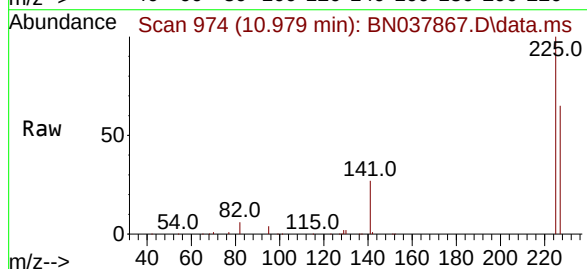
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

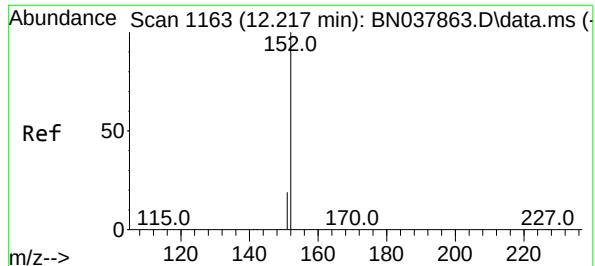
Tgt Ion:128 Resp: 250883
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 12.8 11.0 16.6



#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

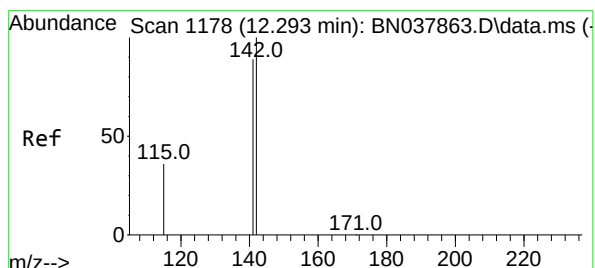
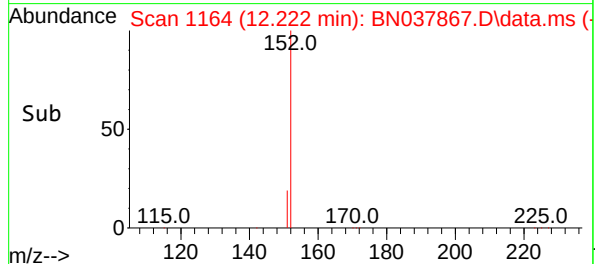
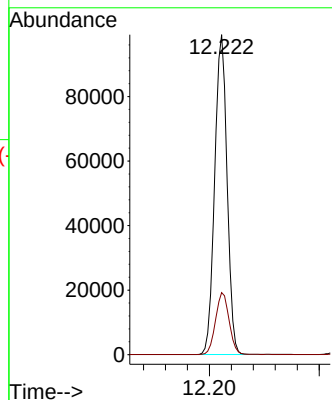
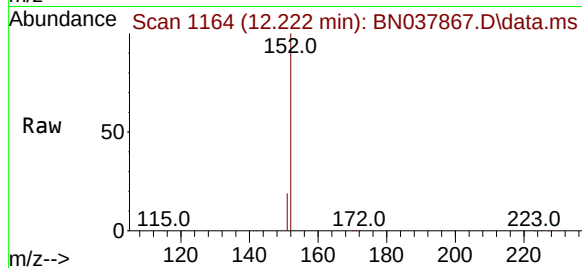




#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

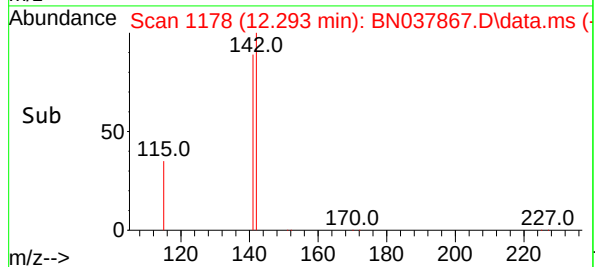
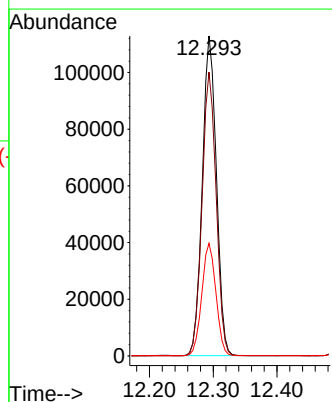
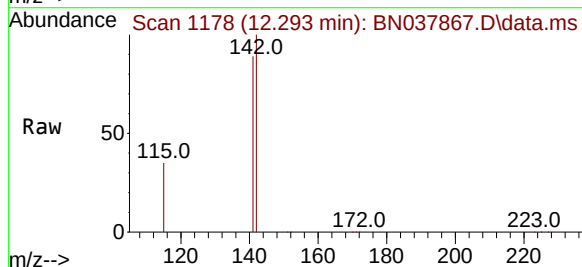
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

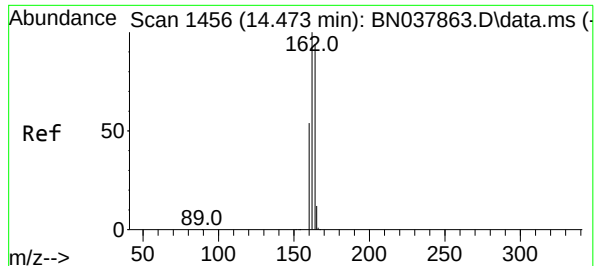
Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#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

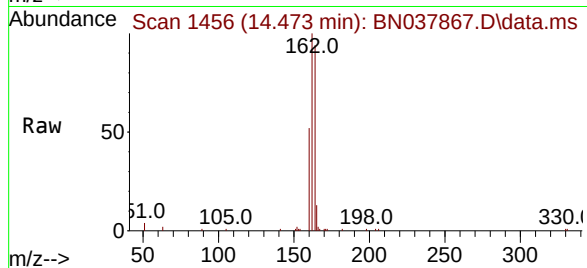
Tgt Ion:142 Resp: 173335
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8
115 35.2 29.7 44.5



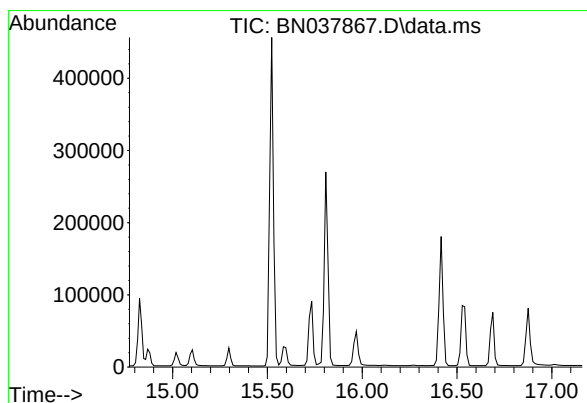
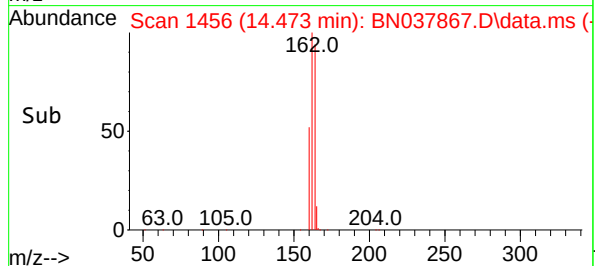
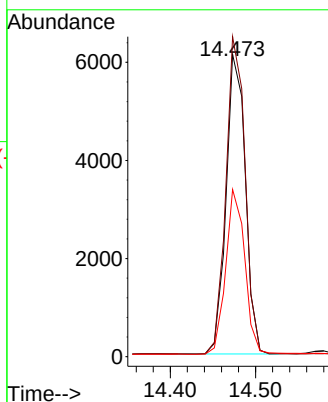


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



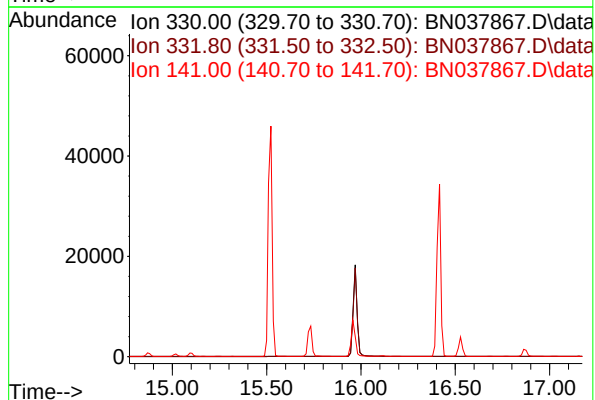
Tgt Ion:164 Resp: 9570
Ion Ratio Lower Upper
164 100
162 105.9 84.8 127.2
160 55.3 46.1 69.1

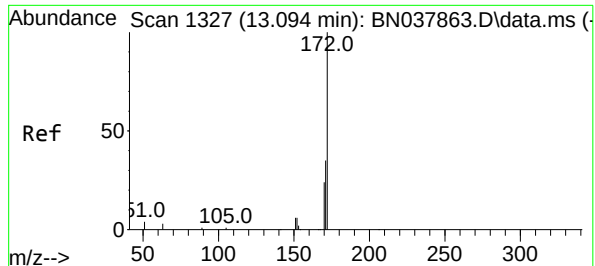


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

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

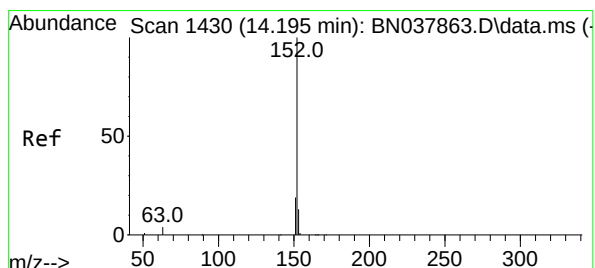
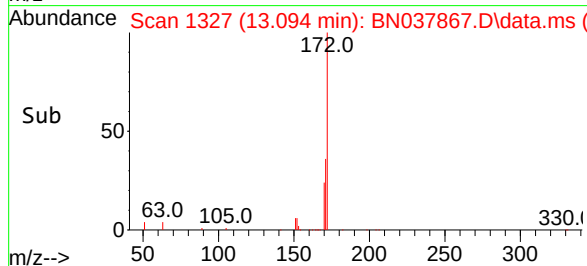
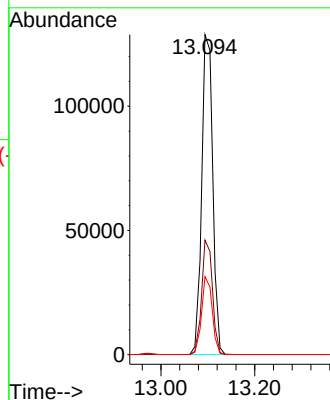
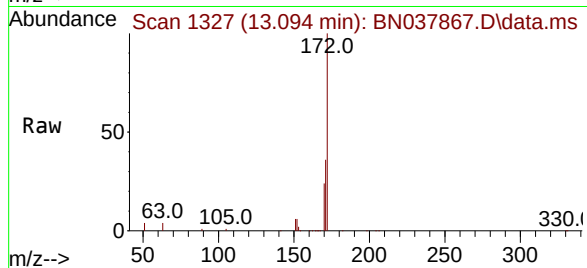
Tgt Ion:172 Resp: 210748

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

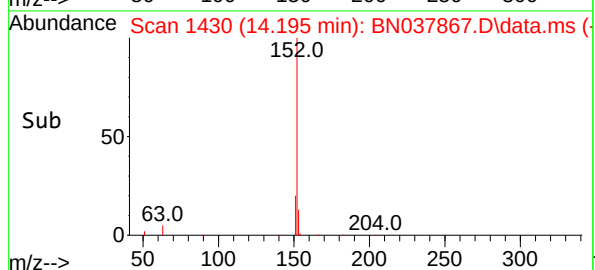
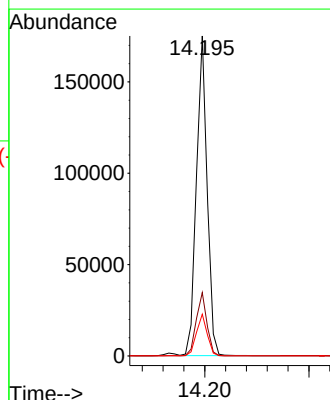
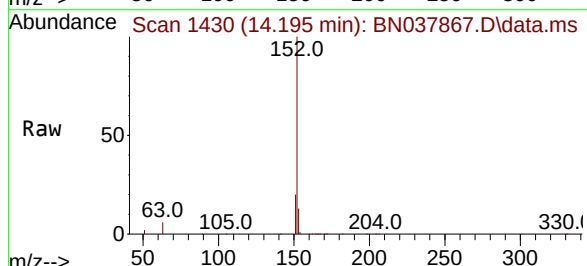
Tgt Ion:152 Resp: 250496

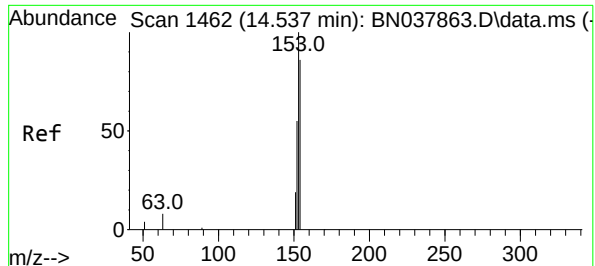
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7

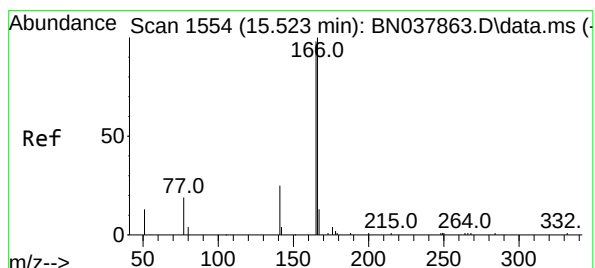
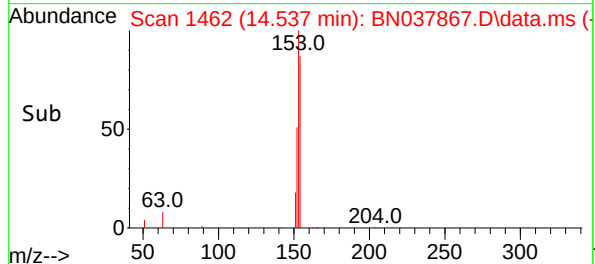
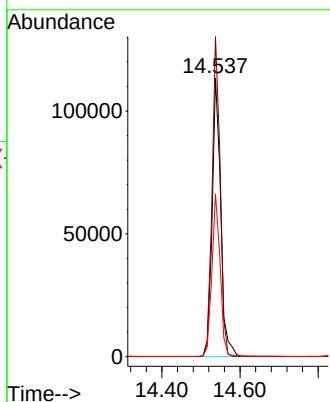
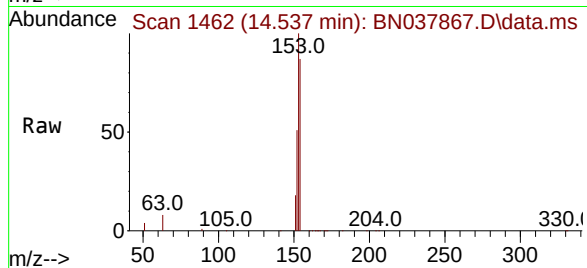




#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

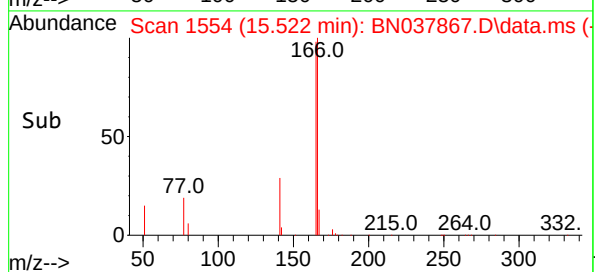
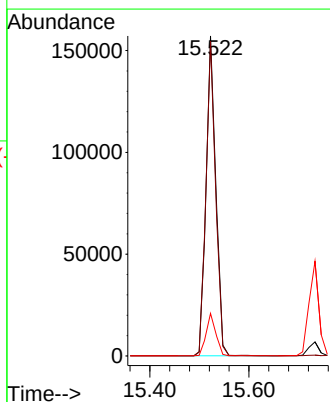
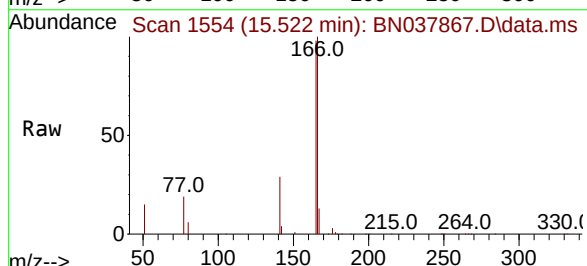
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

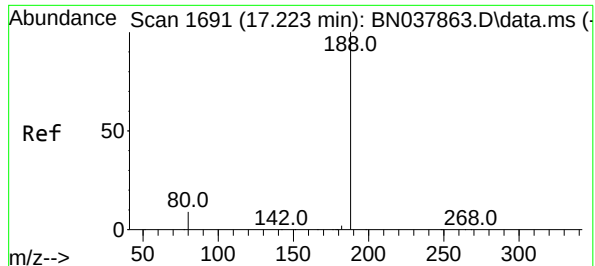
Tgt Ion:154 Resp: 171955
Ion Ratio Lower Upper
154 100
153 108.8 90.5 135.7
152 56.5 51.8 77.8



#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 Resp: 209070
Ion Ratio Lower Upper
166 100
165 95.7 79.0 118.4
167 12.9 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: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

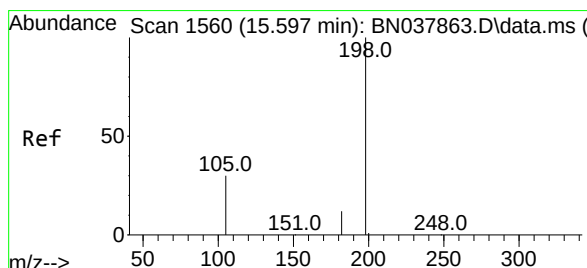
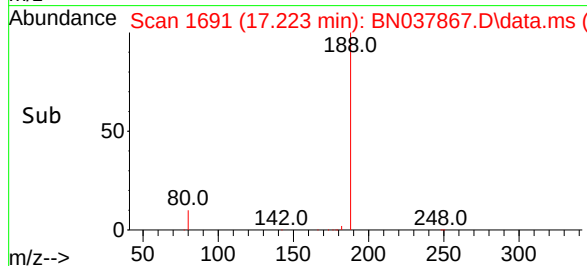
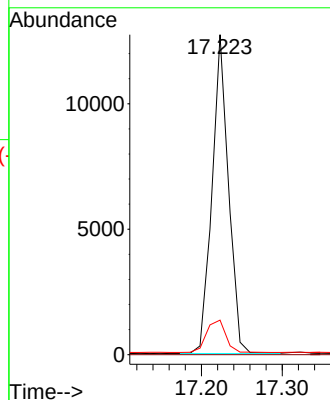
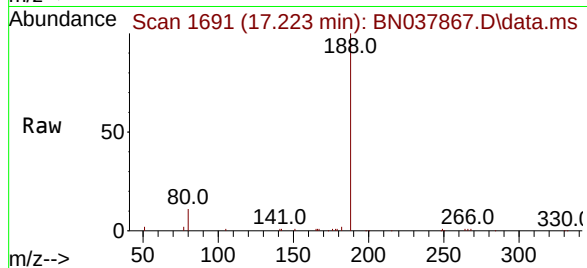
Tgt Ion:188 Resp: 17948

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

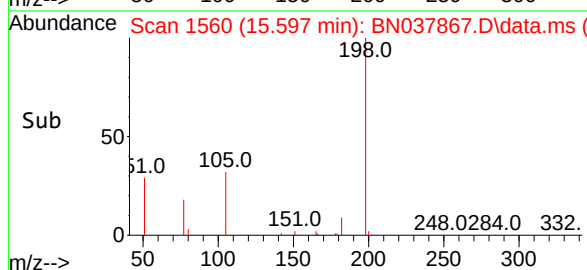
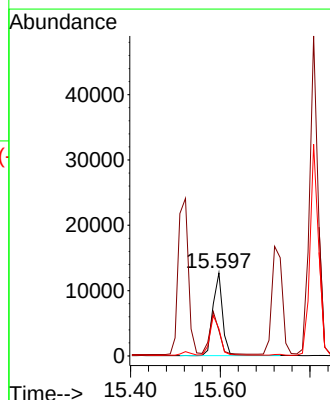
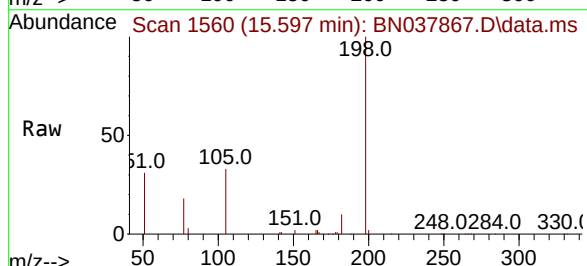
Tgt Ion:198 Resp: 18771

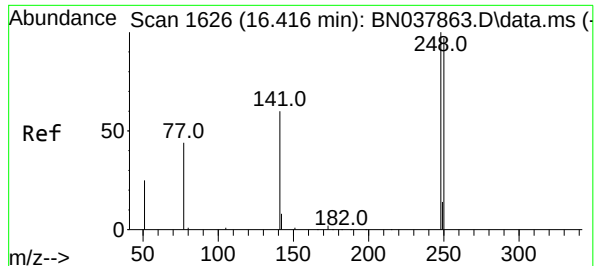
Ion Ratio Lower Upper

198 100

51 30.7 59.1 88.7#

105 32.7 41.3 61.9#

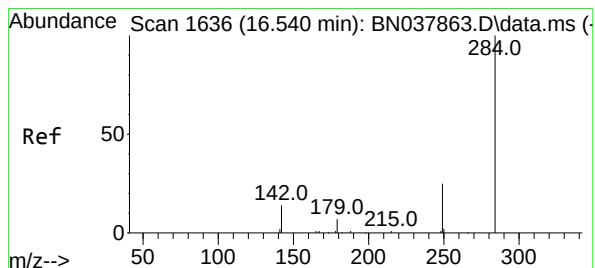
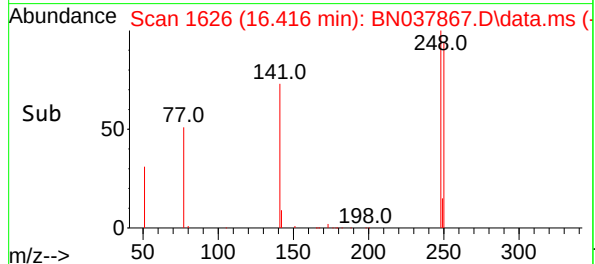
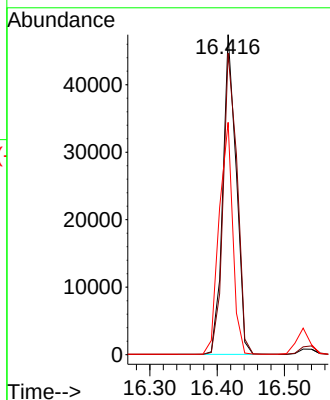
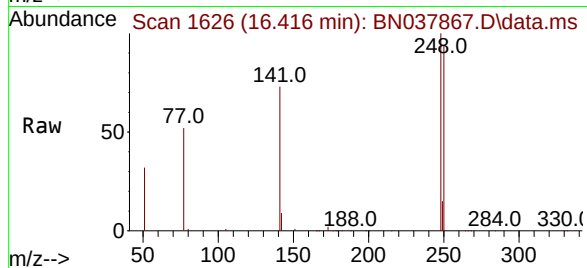




#21
4-Bromophenyl-phenylether
Concen: 5.577 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

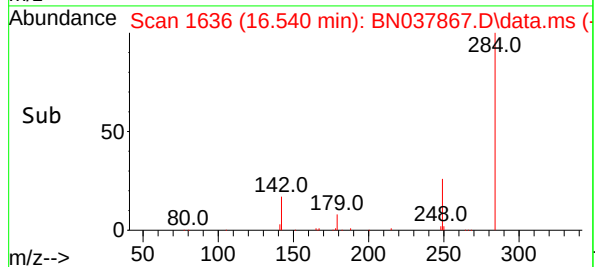
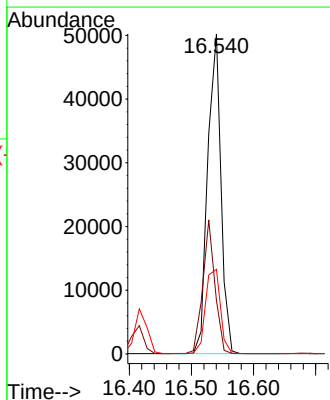
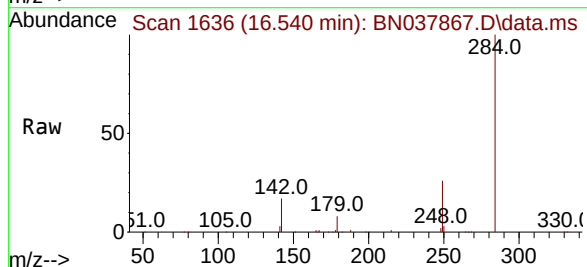
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

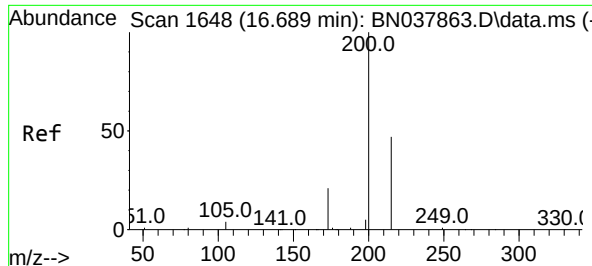
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.2	77.6	116.4
141	72.6	48.8	73.2



#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	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

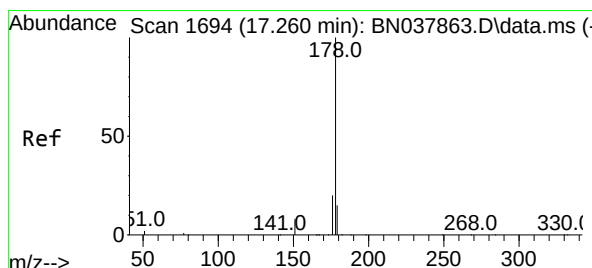
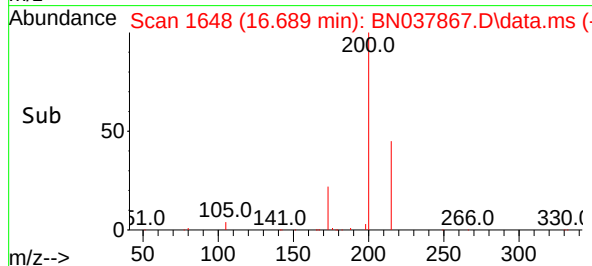
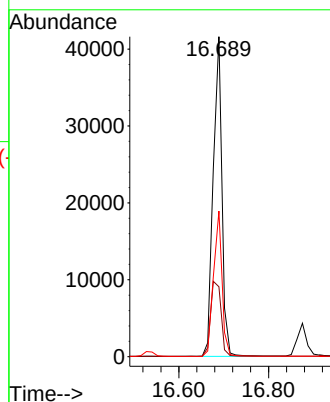
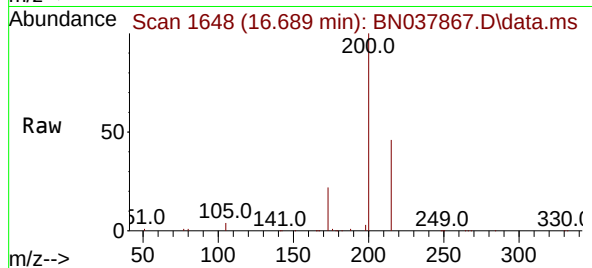
Tgt Ion:200 Resp: 55972

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

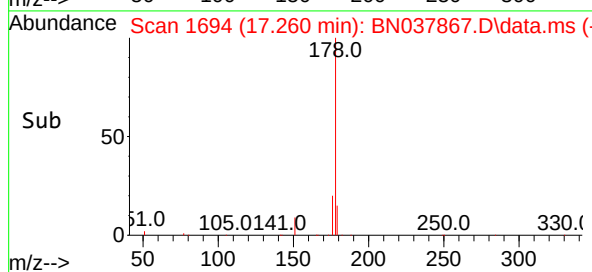
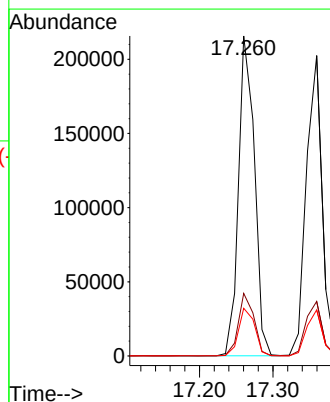
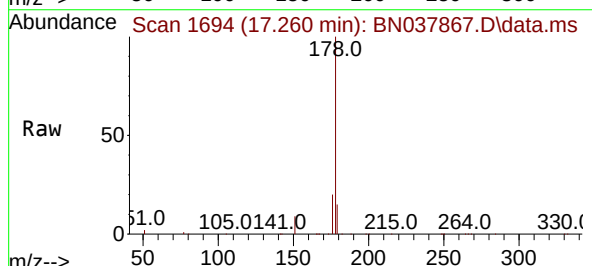
Tgt Ion:178 Resp: 325691

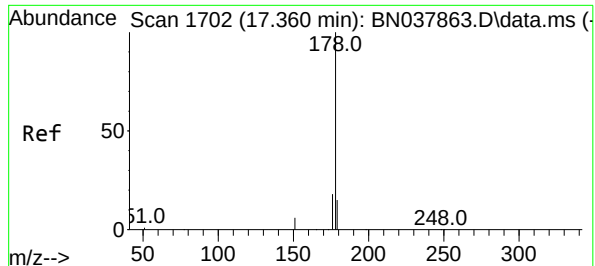
Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.1 12.3 18.5

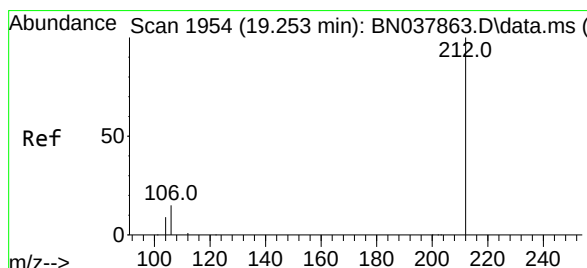
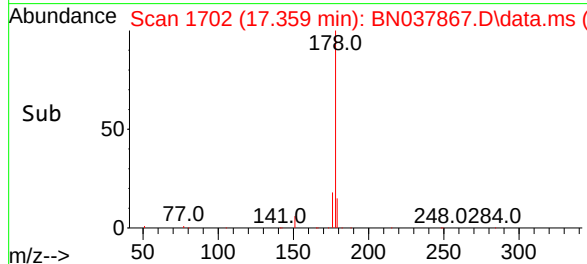
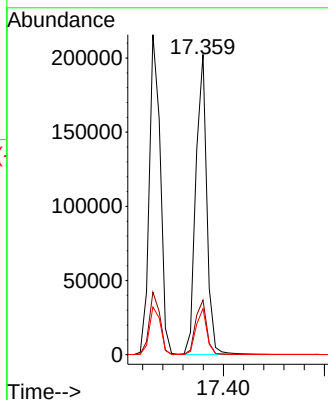
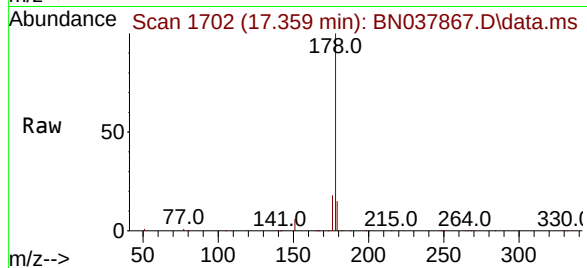




#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

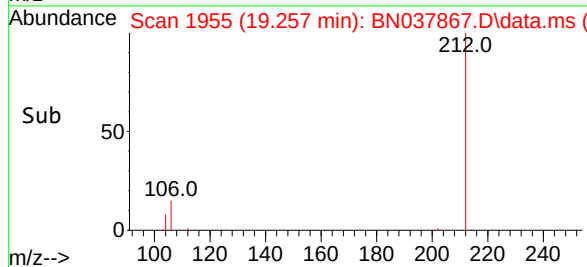
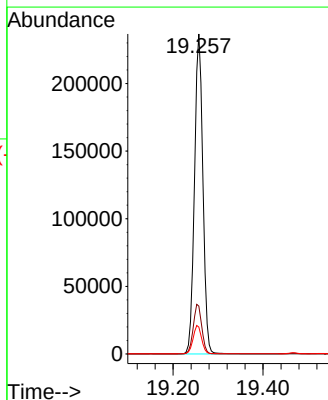
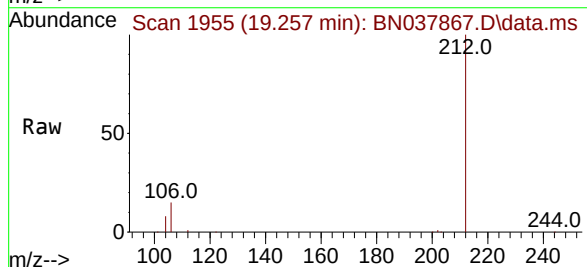
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

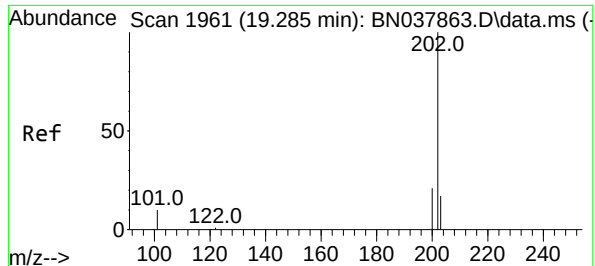
Tgt Ion:178 Resp: 305295
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5



#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

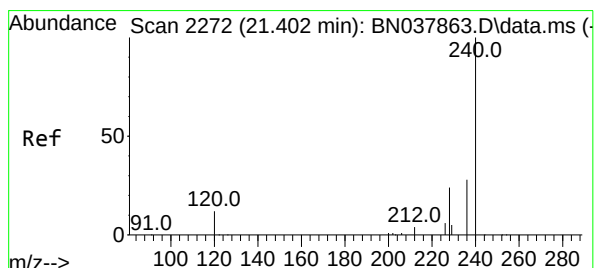
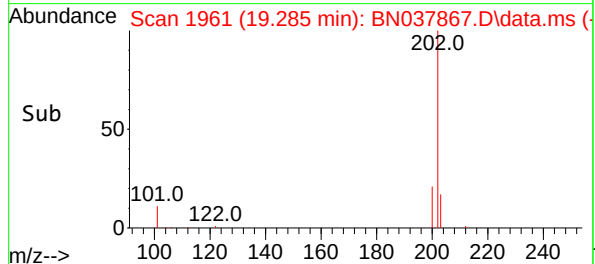
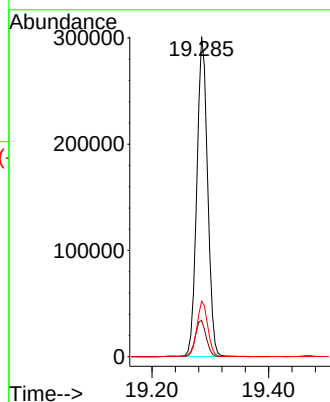
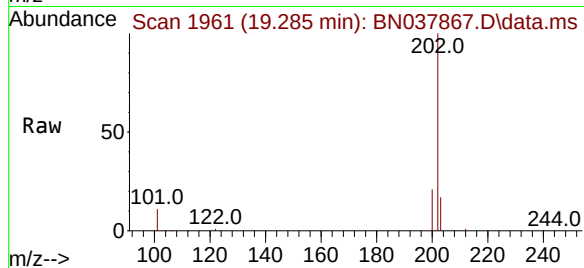




#28
Fluoranthene
Concen: 5.908 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

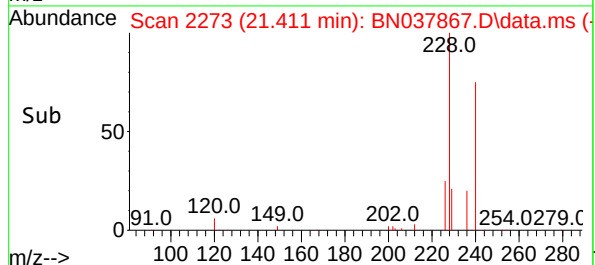
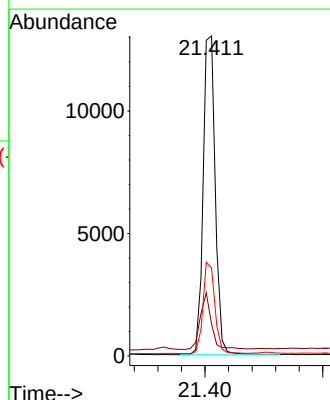
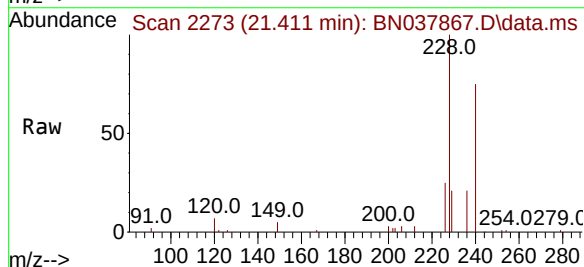
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

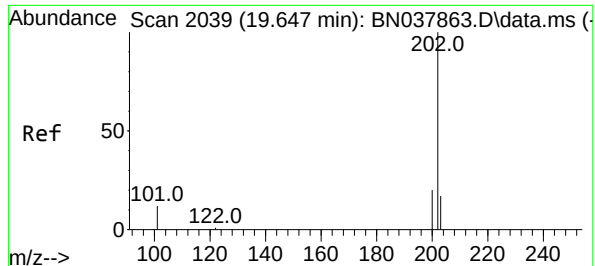
Tgt Ion:202 Resp: 384292
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.3 13.6 20.4



#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

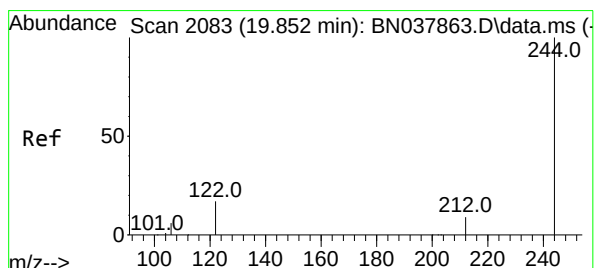
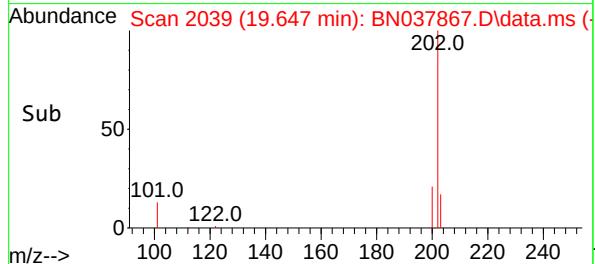
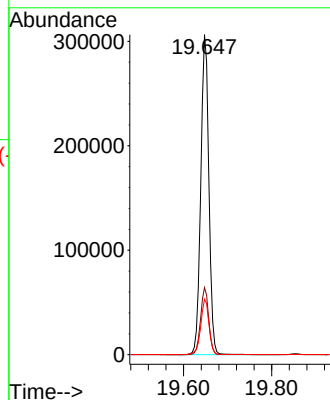
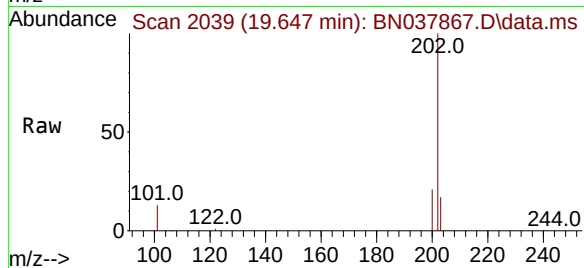
Tgt Ion:202 Resp: 388849

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

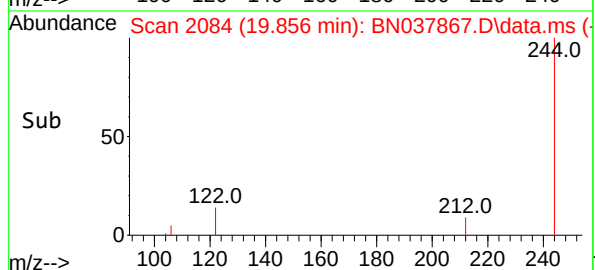
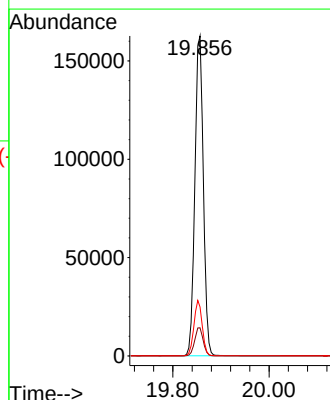
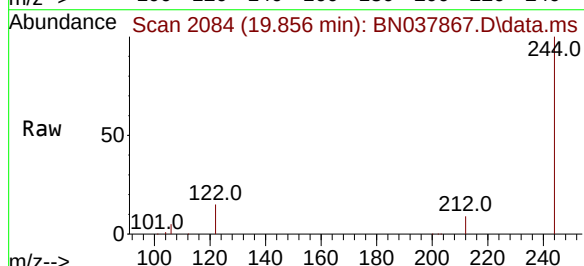
Tgt Ion:244 Resp: 206917

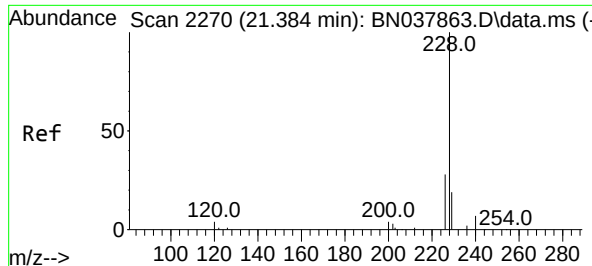
Ion Ratio Lower Upper

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# 21

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

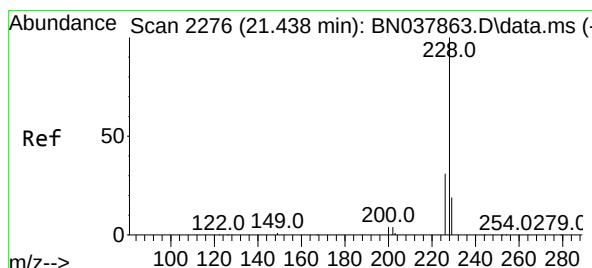
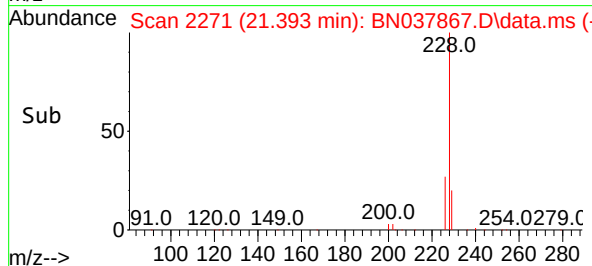
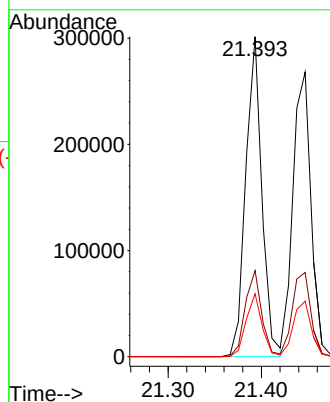
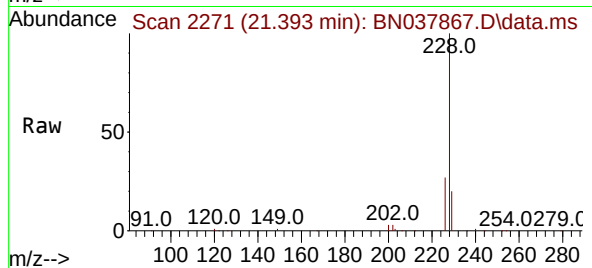
Tgt Ion:228 Resp: 362927

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

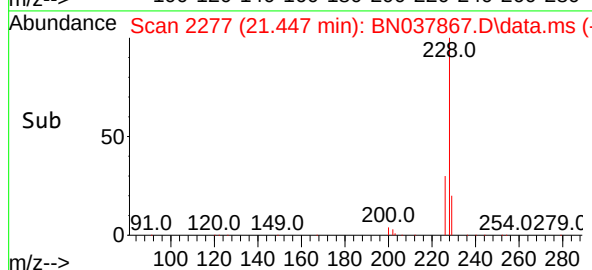
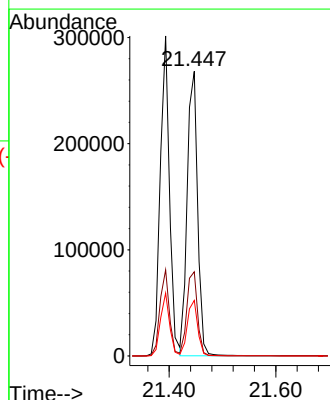
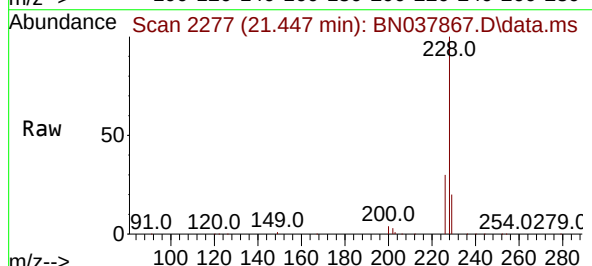
Tgt Ion:228 Resp: 363421

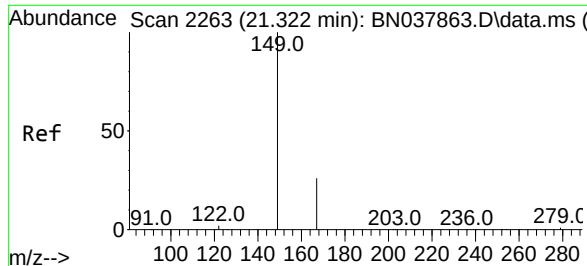
Ion Ratio Lower Upper

228 100

226 29.6 24.6 37.0

229 19.5 15.6 23.4

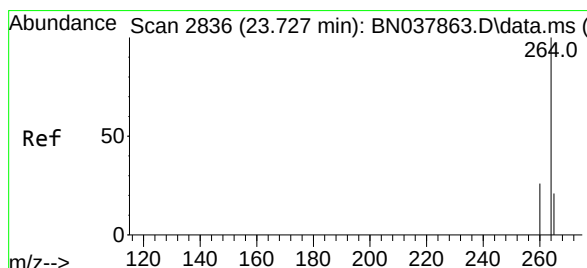
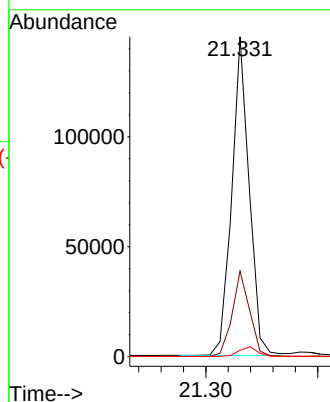
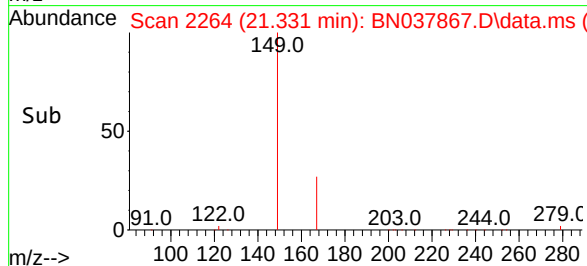
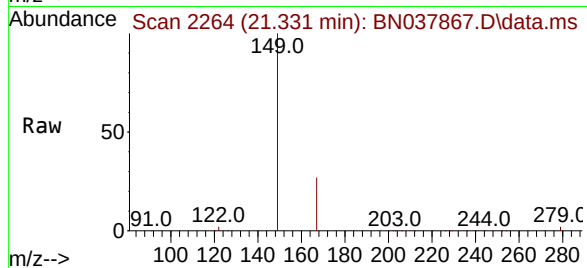




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.109 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

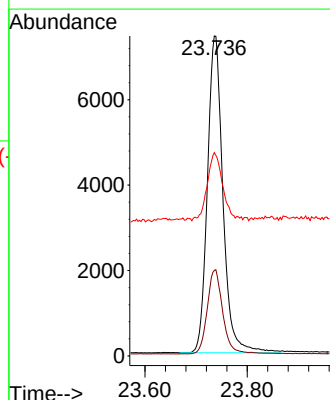
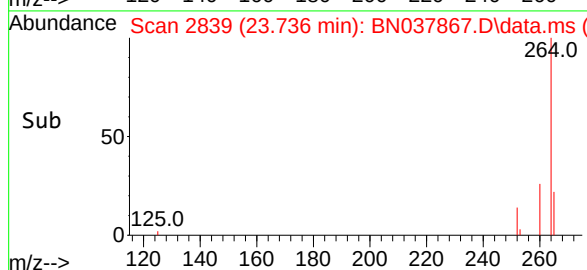
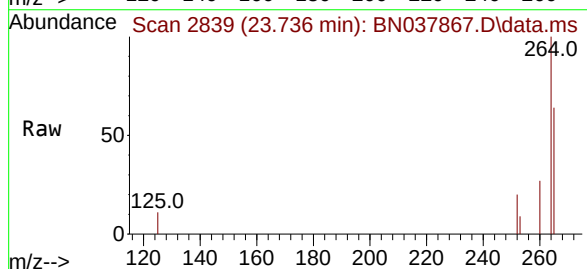
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

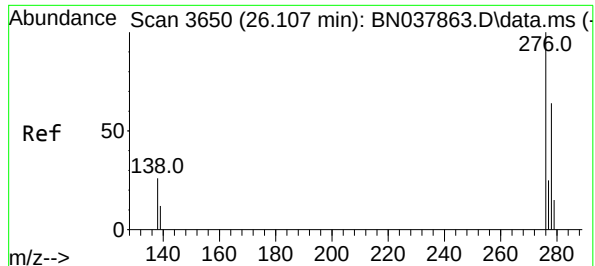
Tgt Ion:149 Resp: 156492
Ion Ratio Lower Upper
149 100
167 26.8 20.4 30.6
279 3.2 2.4 3.6



#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

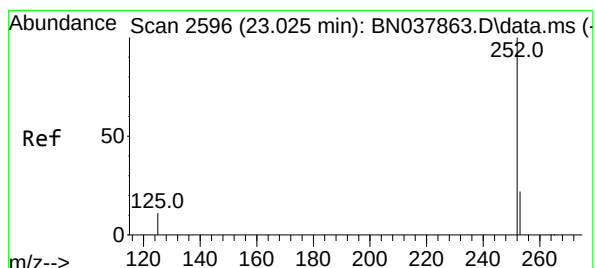
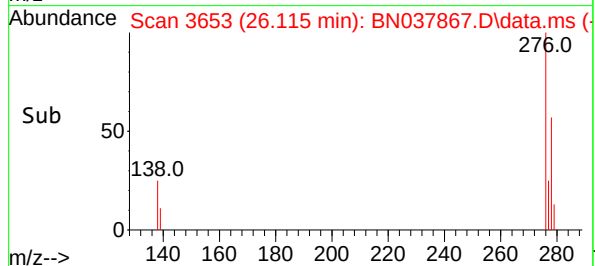
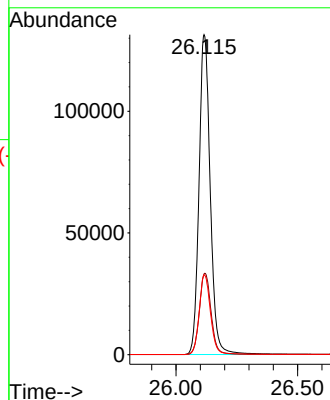
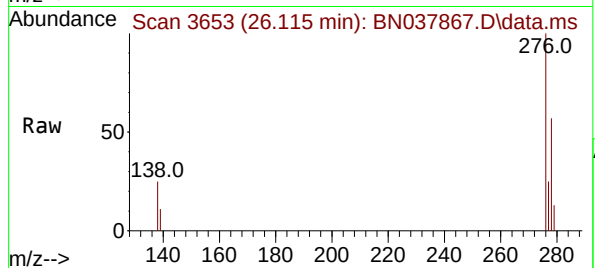




#36
Indeno(1,2,3-cd)pyrene
Concen: 5.906 ng
RT: 26.115 min Scan# 3653
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

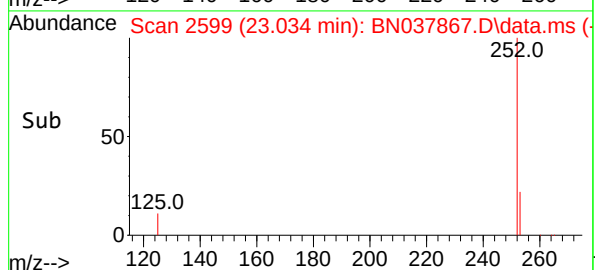
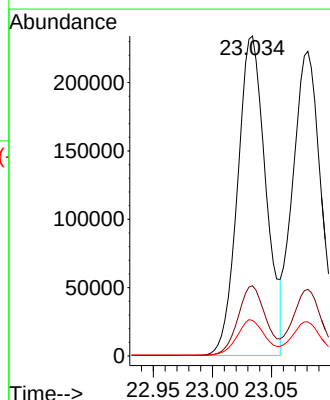
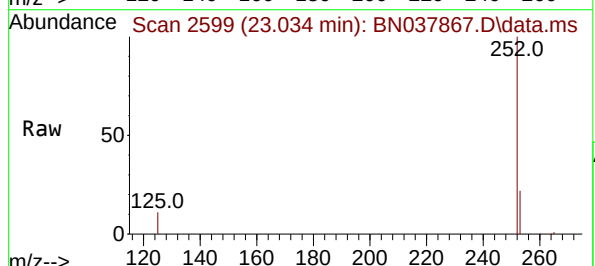
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

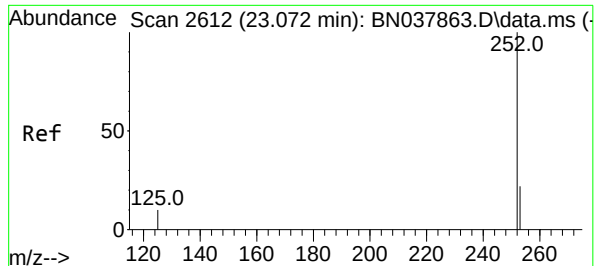
Tgt Ion:276 Resp: 422337
Ion Ratio Lower Upper
276 100
138 26.3 21.4 32.0
277 25.1 20.3 30.5



#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

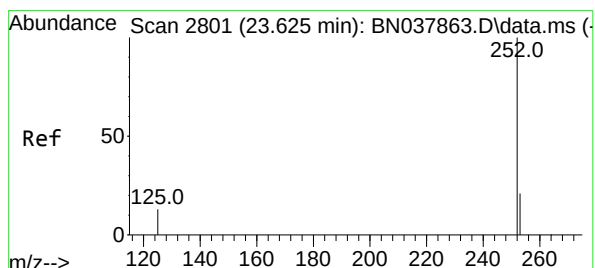
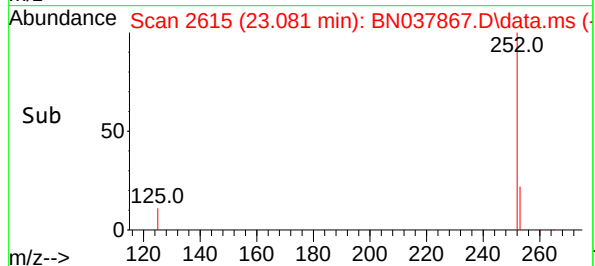
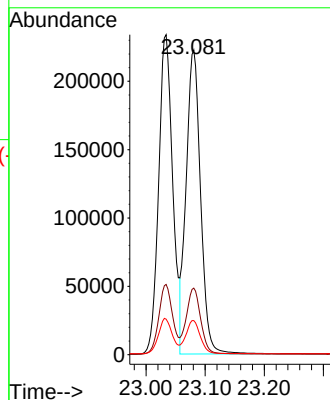
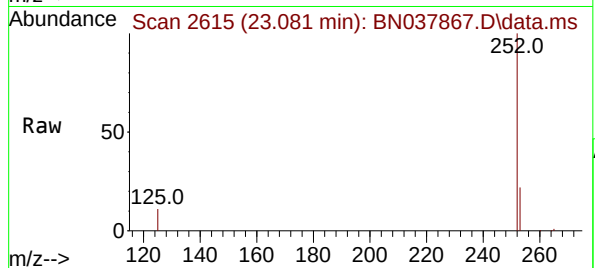
Tgt Ion:252 Resp: 376732

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

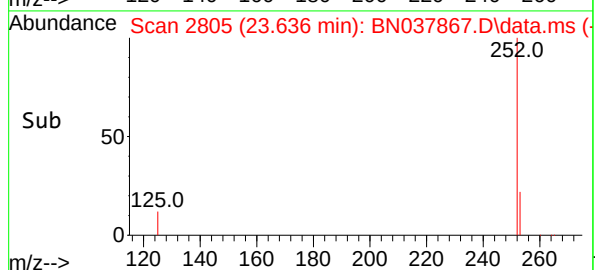
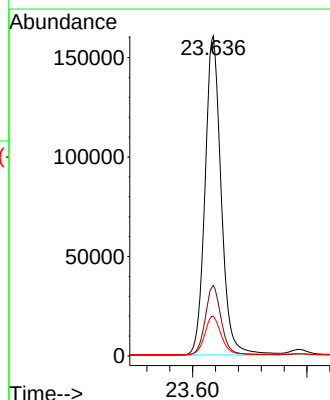
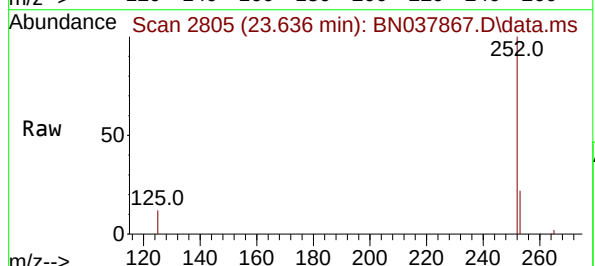
Tgt Ion:252 Resp: 314913

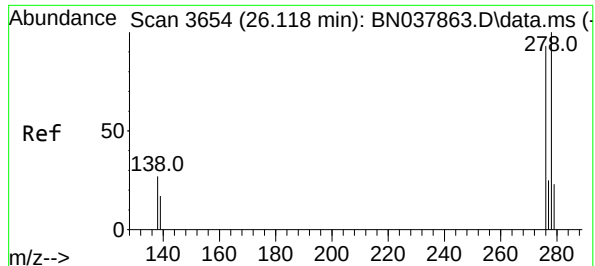
Ion Ratio Lower Upper

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

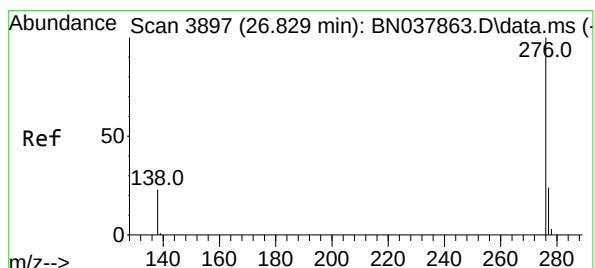
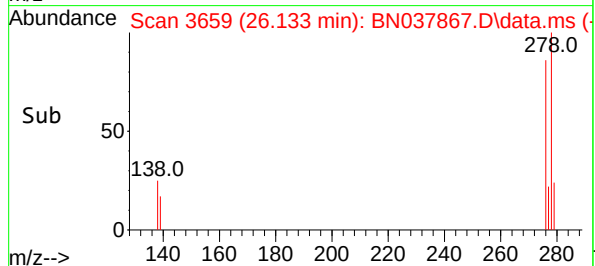
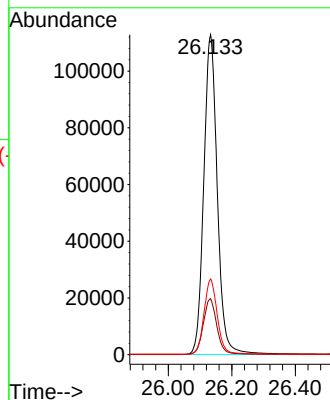
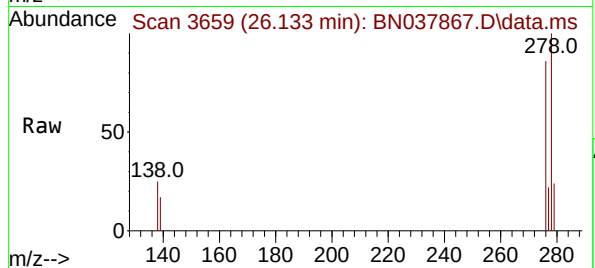
Tgt Ion:278 Resp: 333427

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

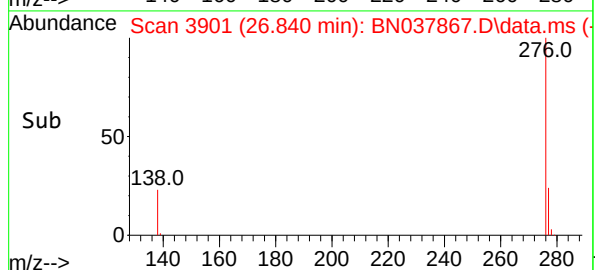
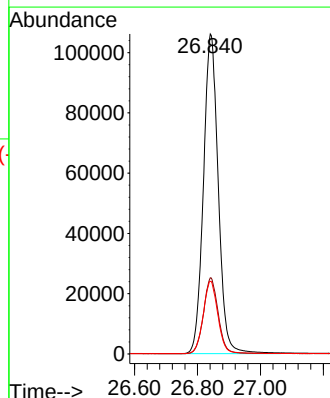
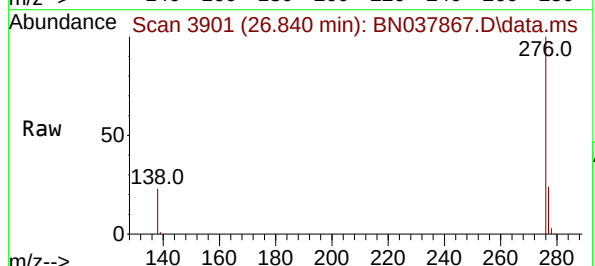
Tgt Ion:276 Resp: 346868

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

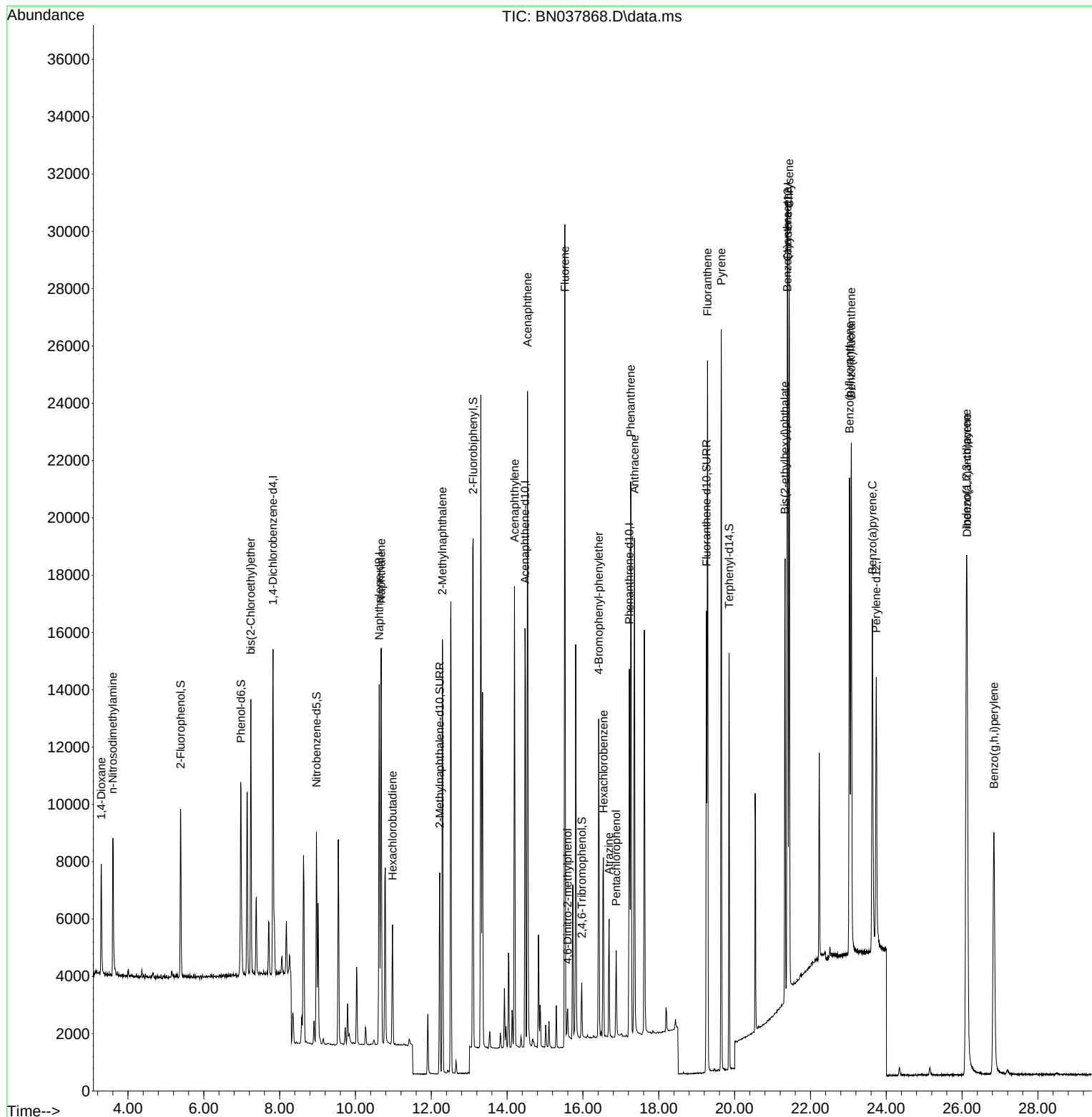
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	# 0.00
29) Chrysene-d12	21.402	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

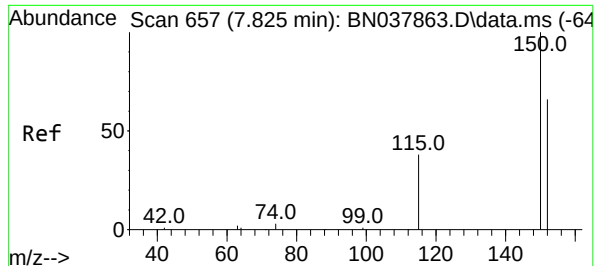
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

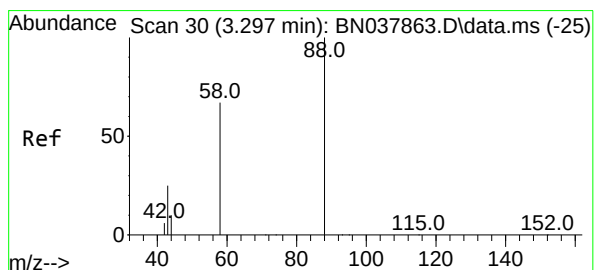
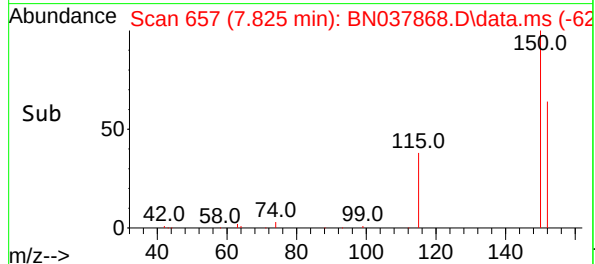
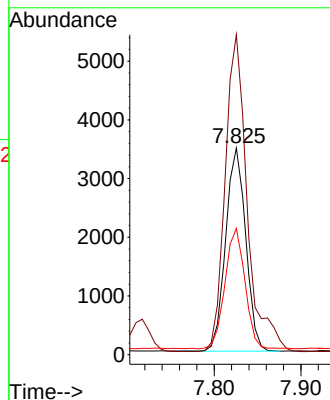
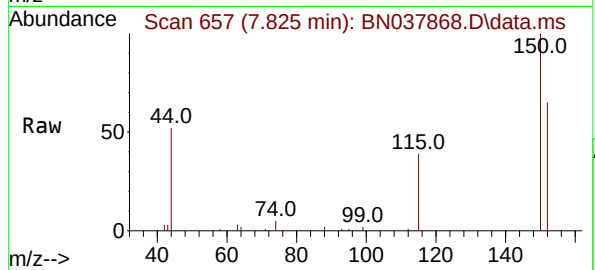




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

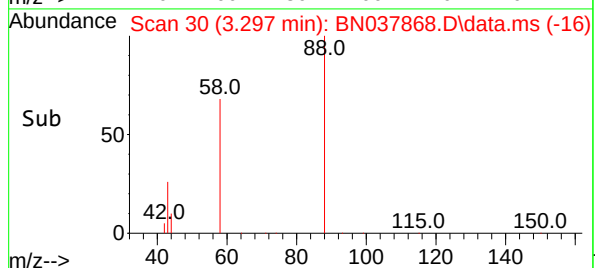
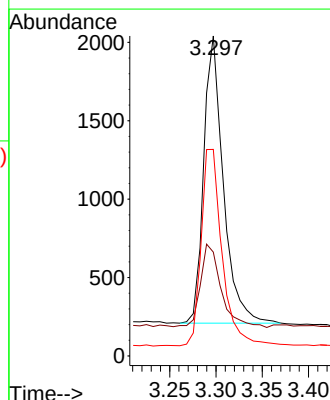
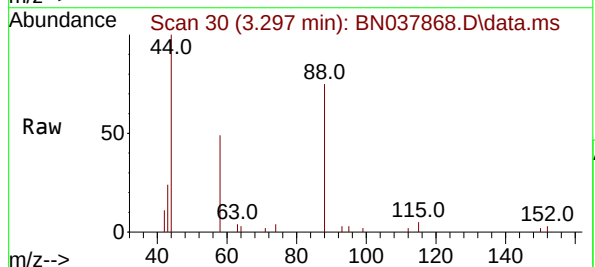
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

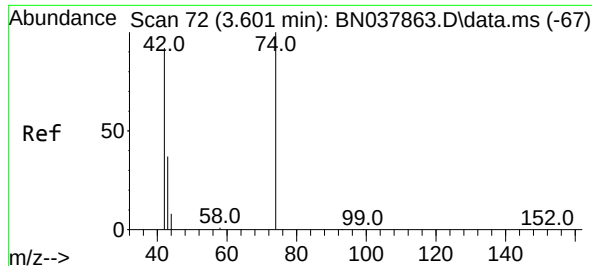
Tgt Ion:152 Resp: 5572
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 61.0 47.4 71.0



#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

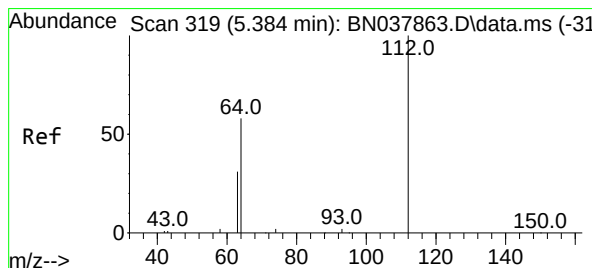
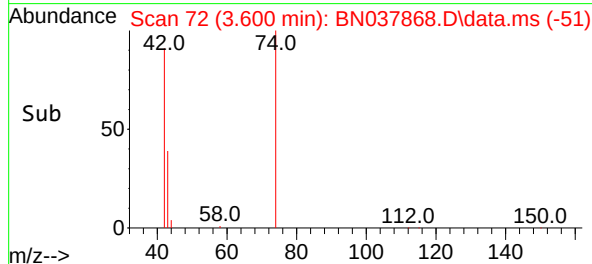
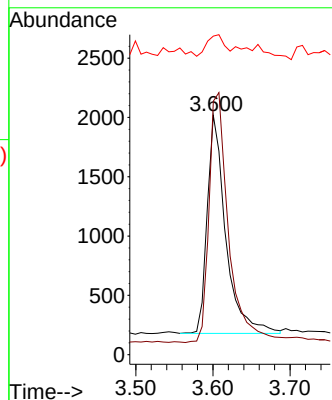
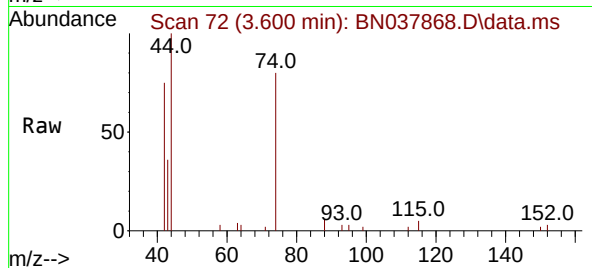




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

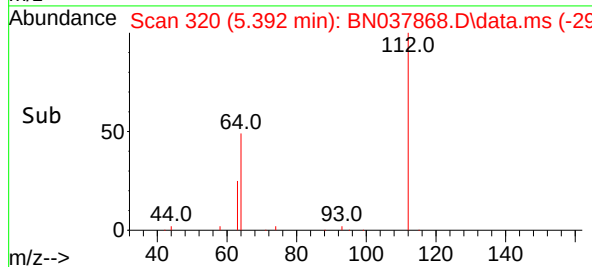
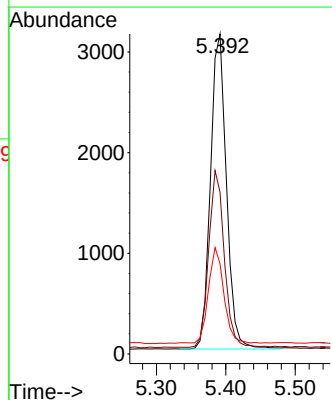
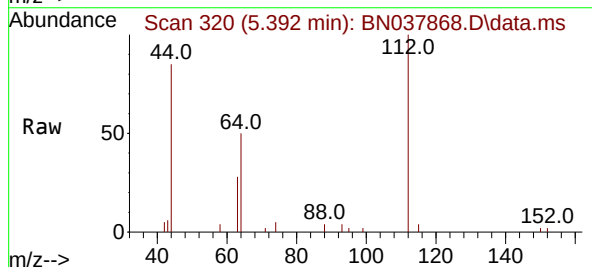
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

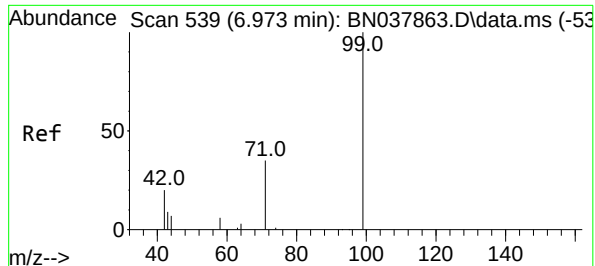
Tgt Ion: 42 Resp: 3070
Ion Ratio Lower Upper
42 100
74 121.8 93.4 140.0
44 9.2 22.2 33.4#



#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

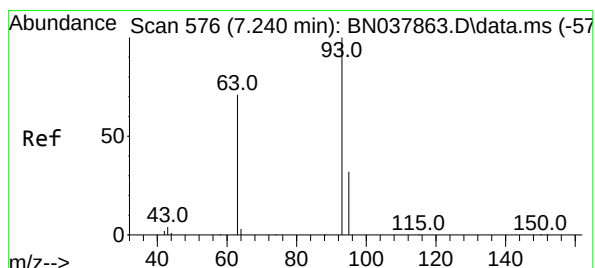
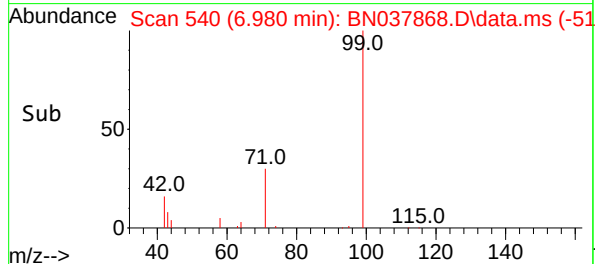
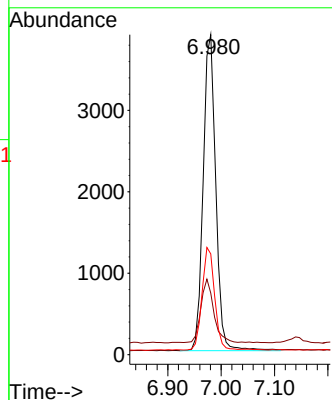
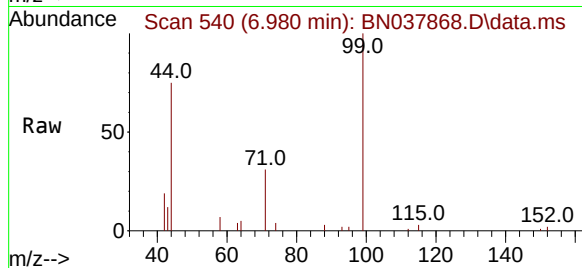




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

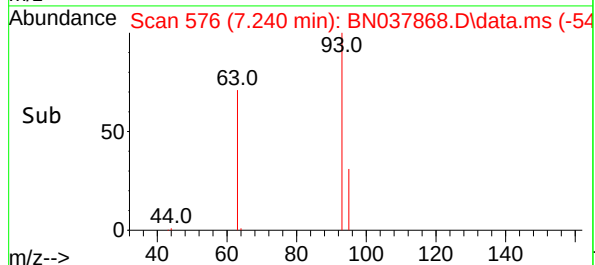
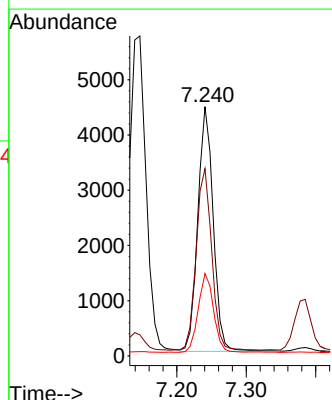
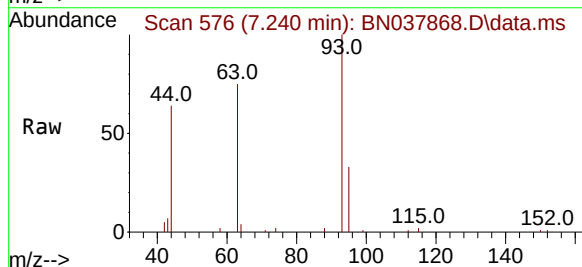
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

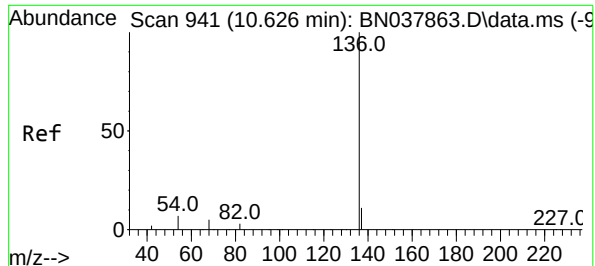
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.2	25.8
71	32.5	27.3	40.9



#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

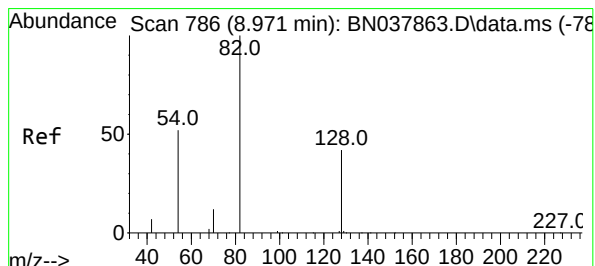
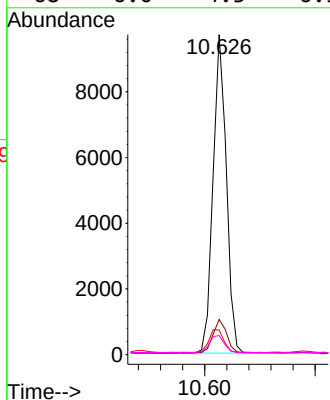
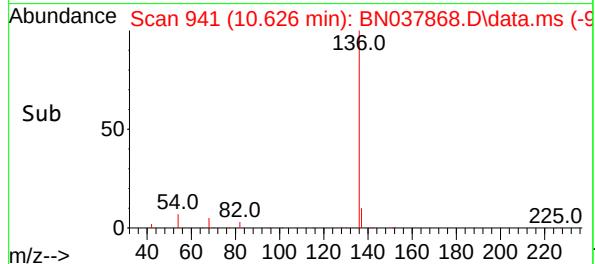
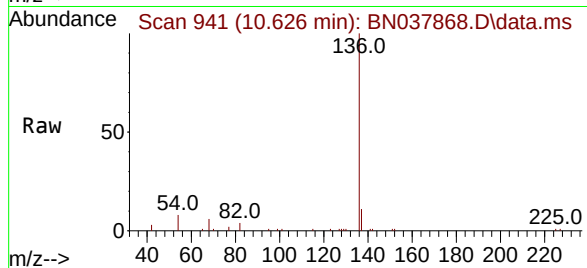




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

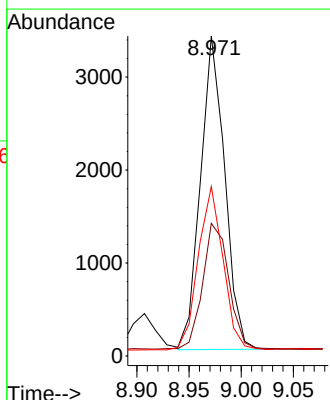
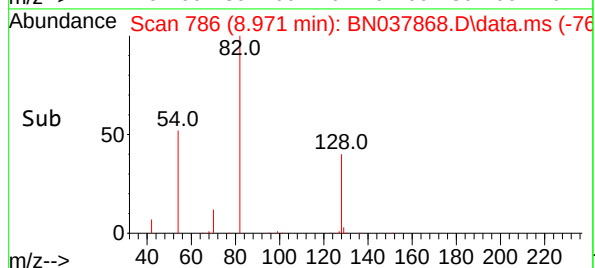
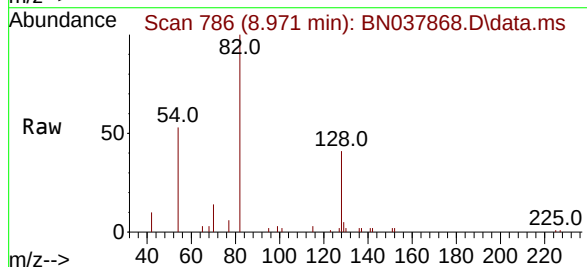
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

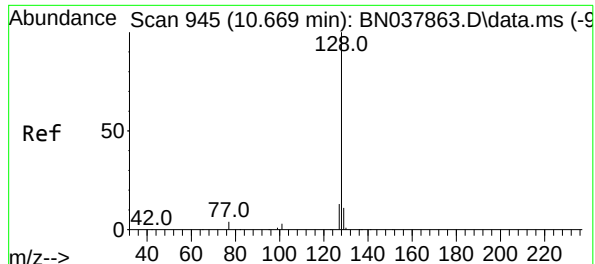
Tgt Ion:	136	Resp:	16158
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.7	5.8	8.8
68	6.0	4.3	6.5



#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

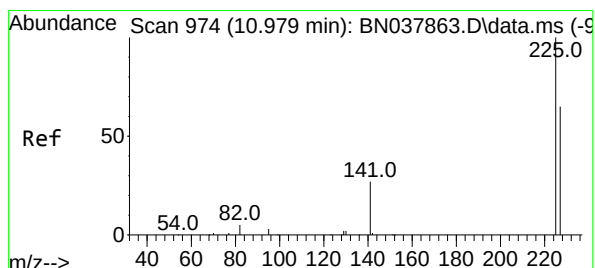
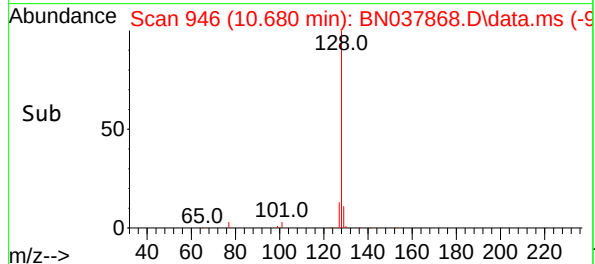
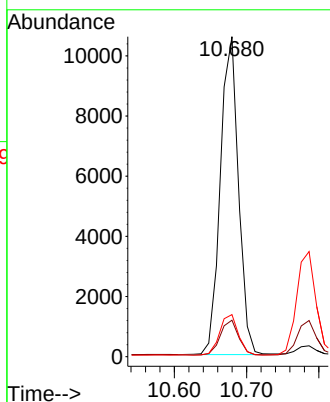
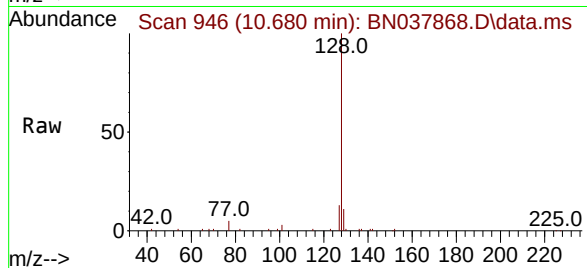




#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

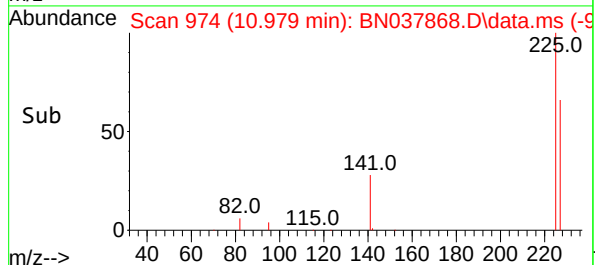
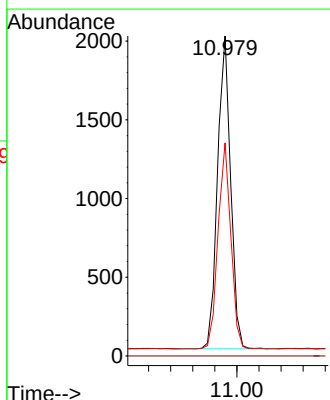
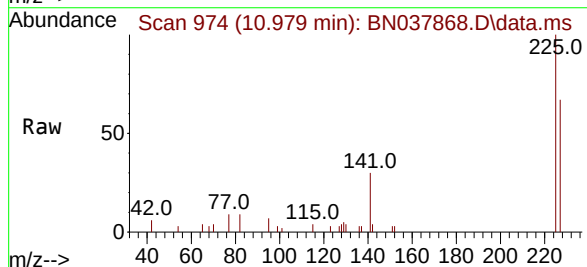
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

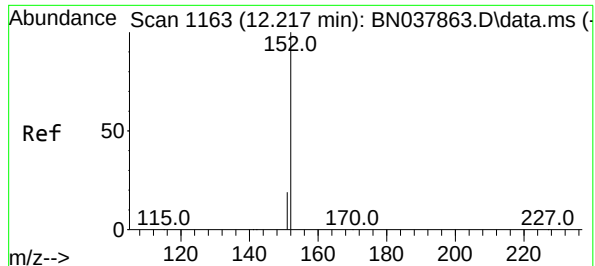
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	11.0	16.6



#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

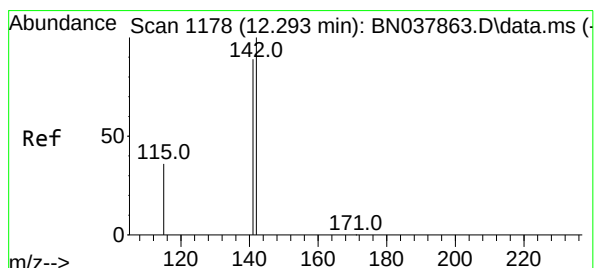
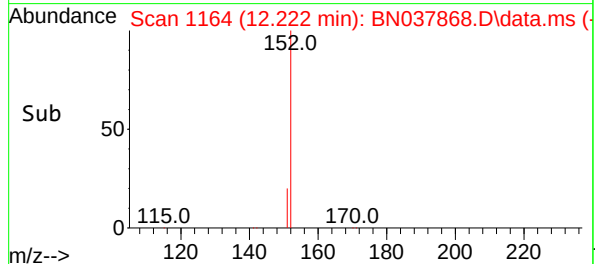
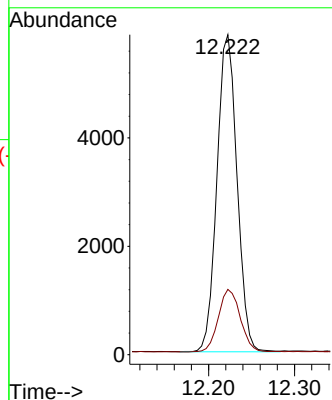
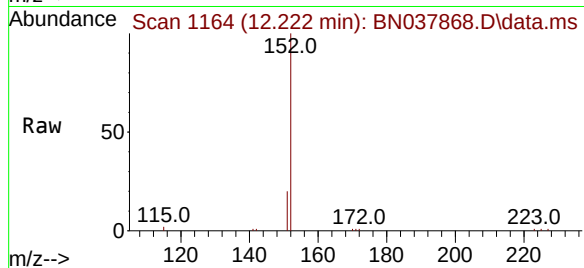




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

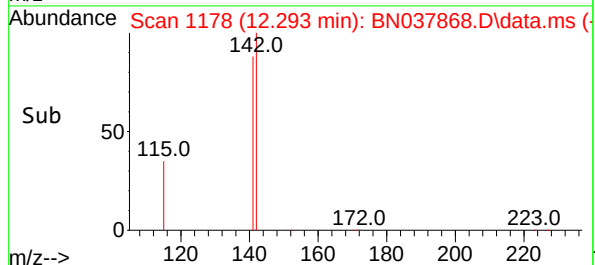
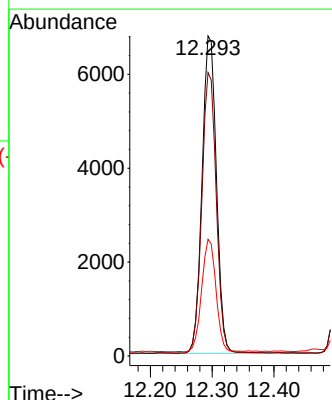
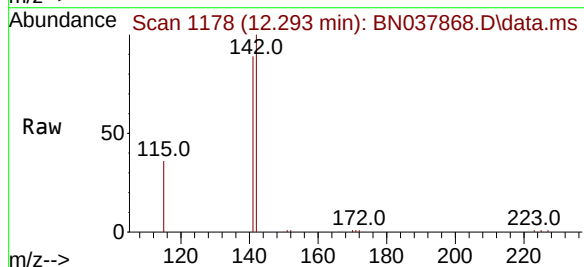
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

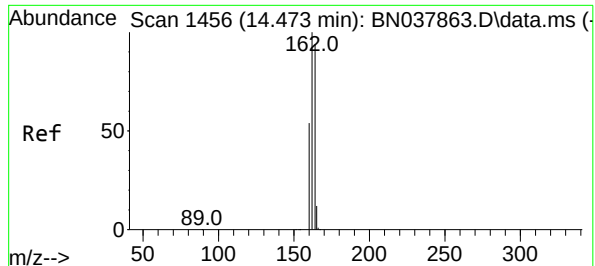
Tgt Ion:152 Resp: 9492
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#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

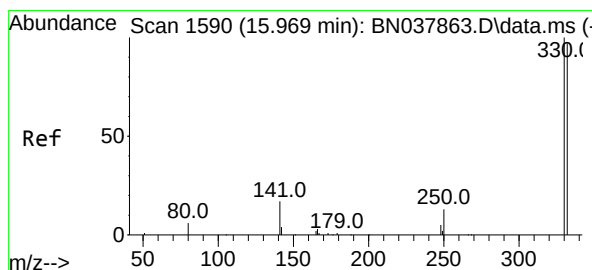
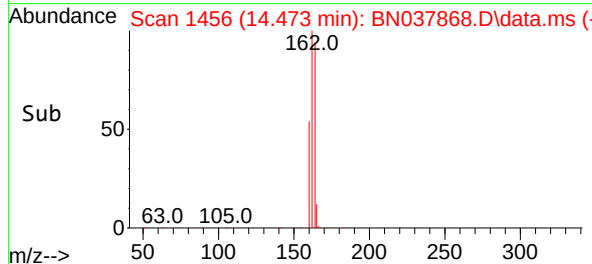
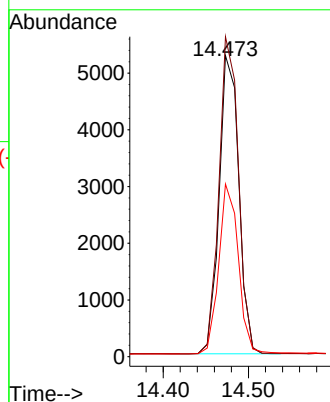
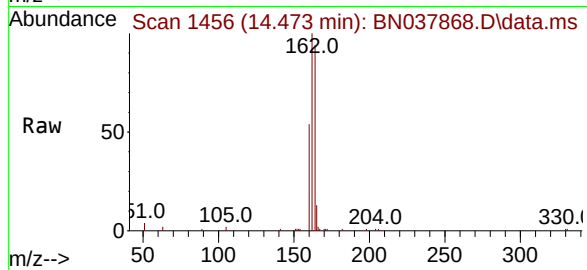
Tgt Ion:164 Resp: 8429

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

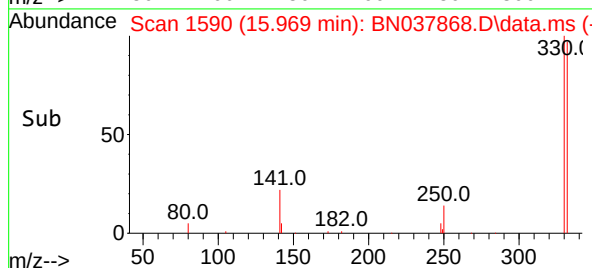
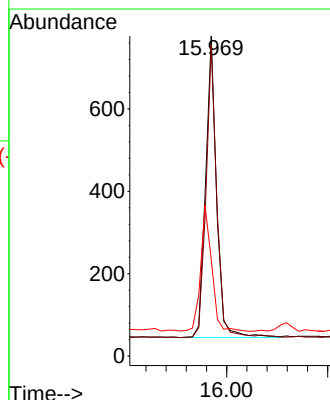
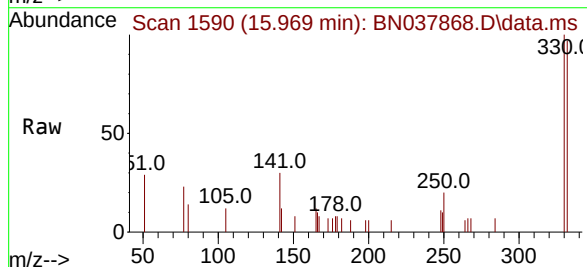
Tgt Ion:330 Resp: 1107

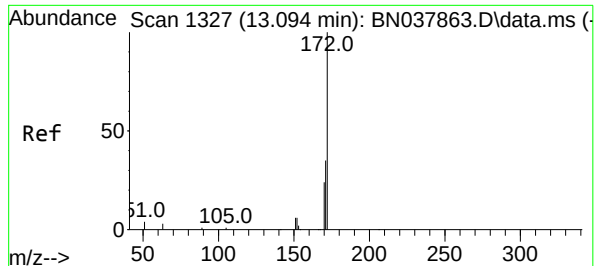
Ion Ratio Lower Upper

330 100

332 94.1 77.2 115.8

141 42.0 37.2 55.8

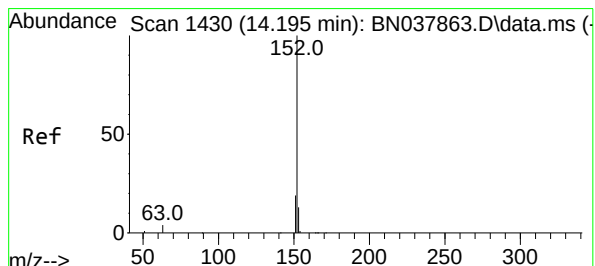
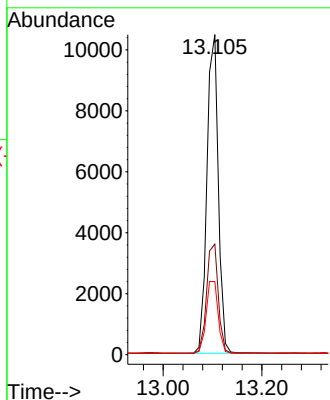
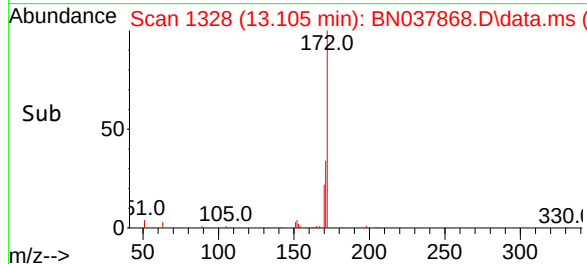
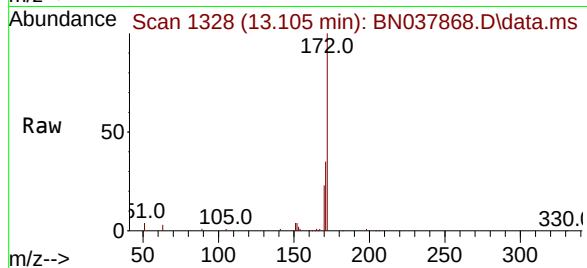




#15
2-Fluorobiphenyl
Concen: 0.485 ng
RT: 13.105 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

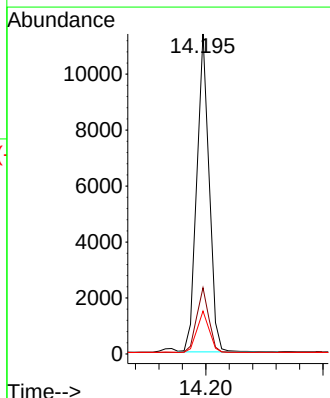
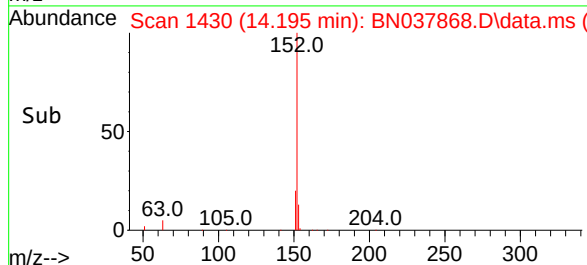
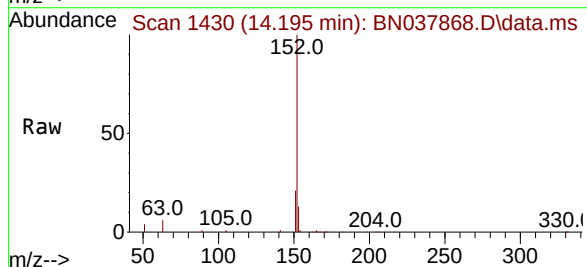
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

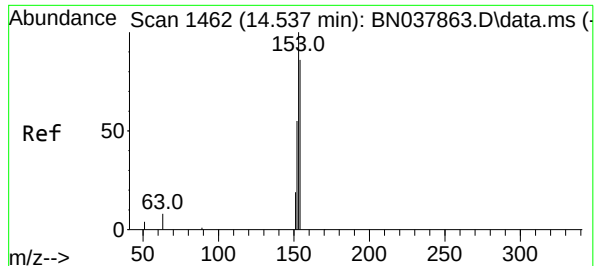
Tgt Ion:172 Resp: 16723
Ion Ratio Lower Upper
172 100
171 34.6 28.6 43.0
170 22.9 19.7 29.5



#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

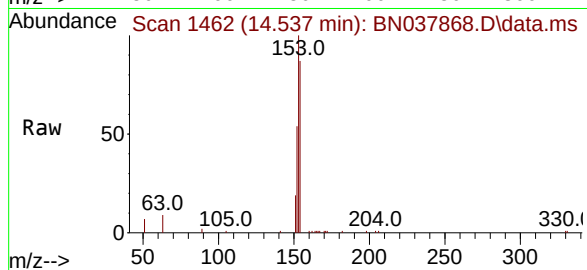
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



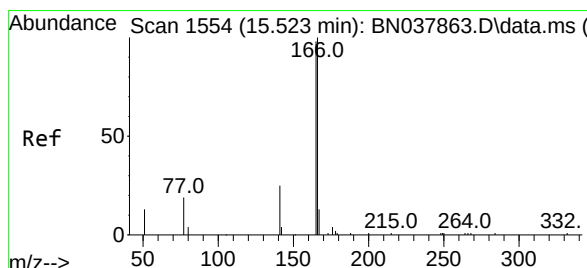
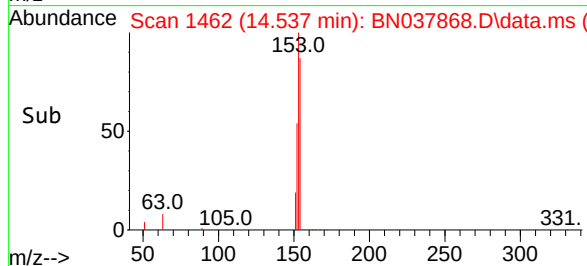
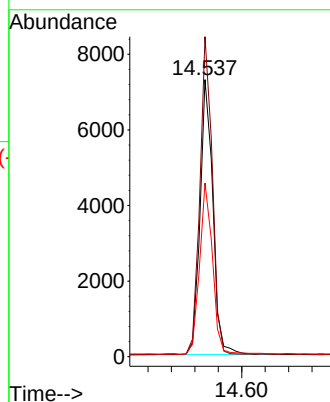
Tgt Ion:154 Resp: 11059

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

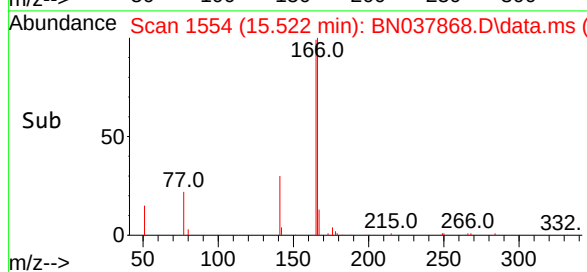
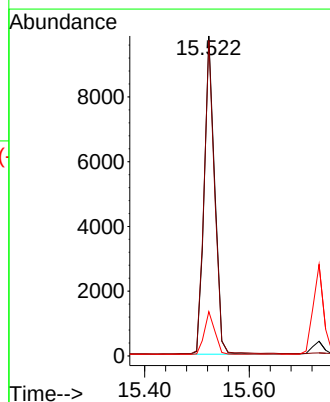
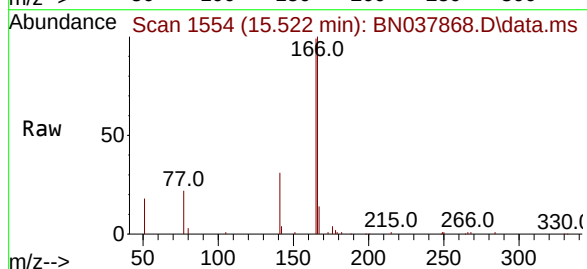
Tgt Ion:166 Resp: 13327

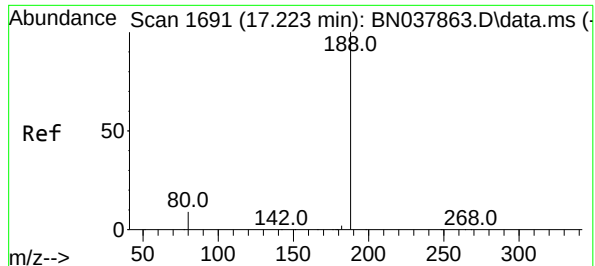
Ion Ratio Lower Upper

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

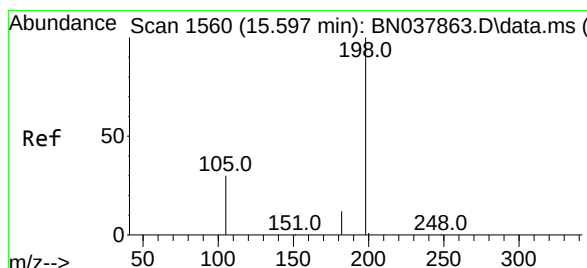
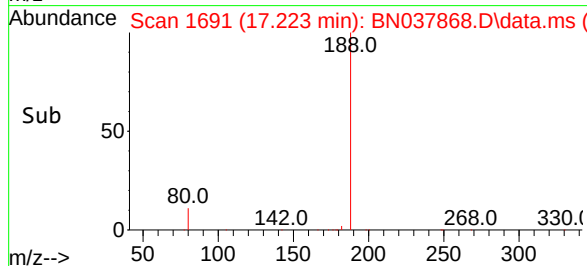
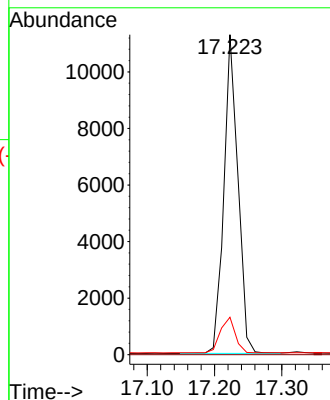
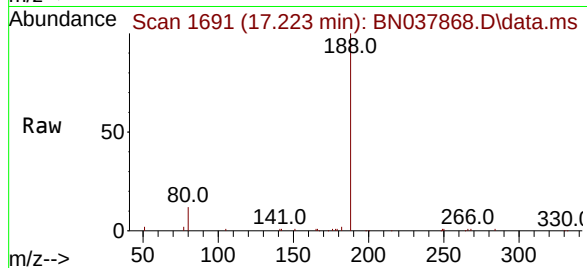
Tgt Ion:188 Resp: 16279

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

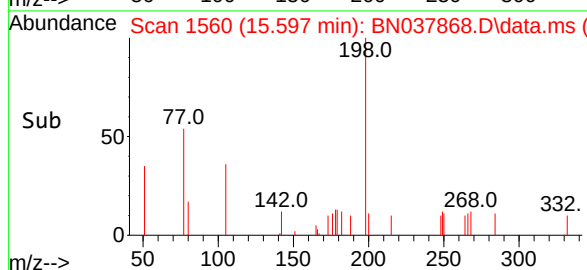
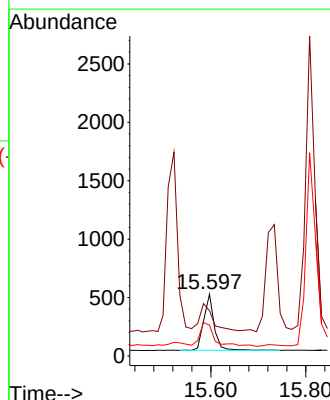
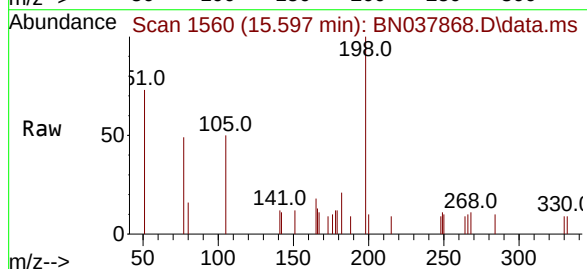
Tgt Ion:198 Resp: 737

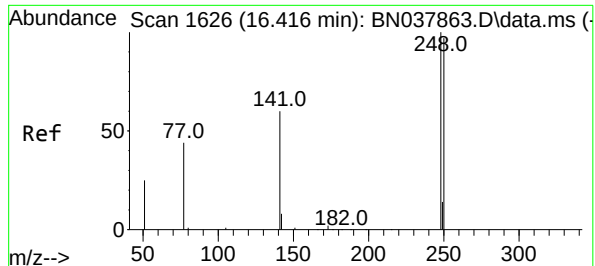
Ion Ratio Lower Upper

198 100

51 73.3 59.1 88.7

105 49.9 41.3 61.9

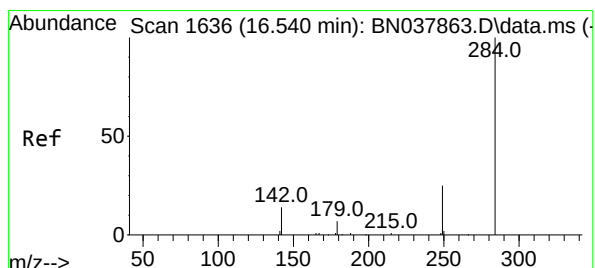
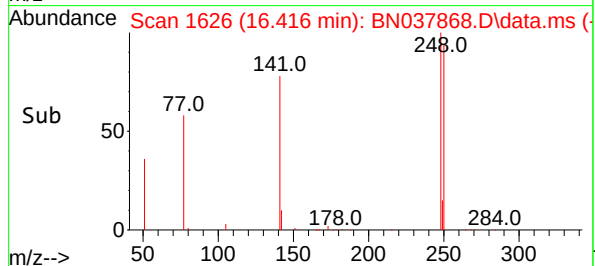
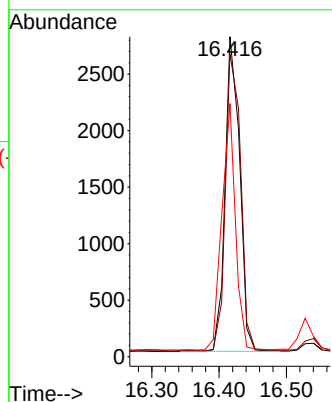
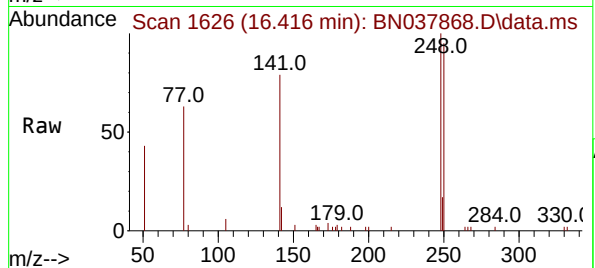




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

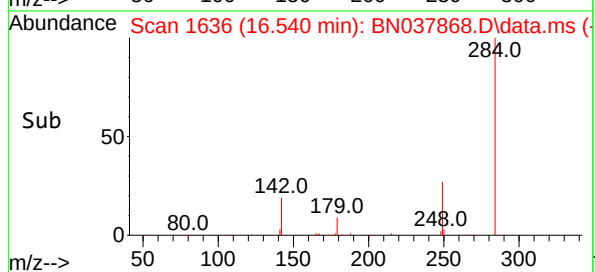
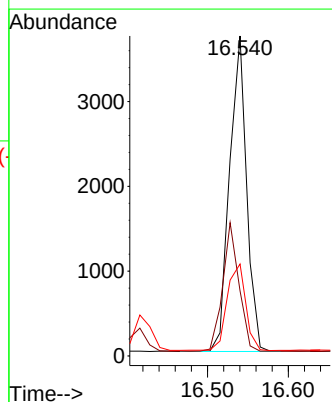
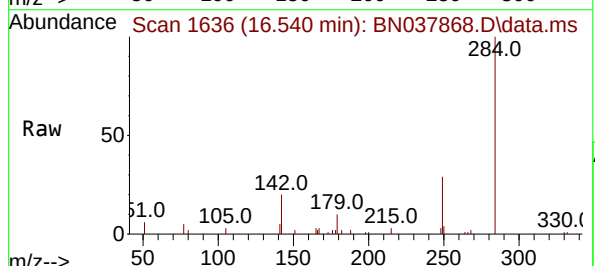
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

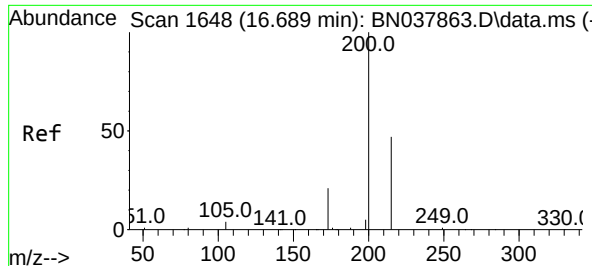
Tgt Ion:248 Resp: 4157
Ion Ratio Lower Upper
248 100
250 94.6 77.6 116.4
141 79.1 48.8 73.2#



#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

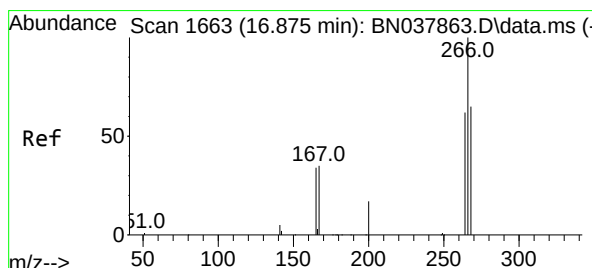
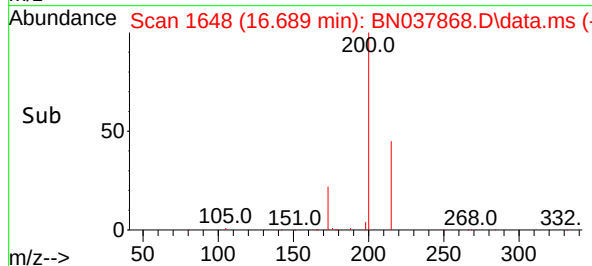
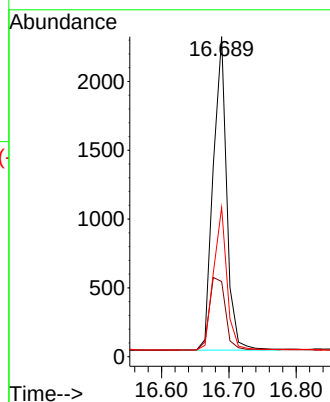
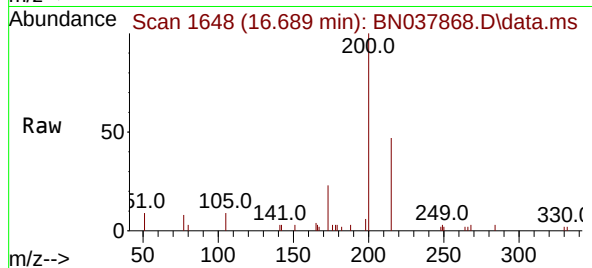
Tgt Ion:200 Resp: 3196

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

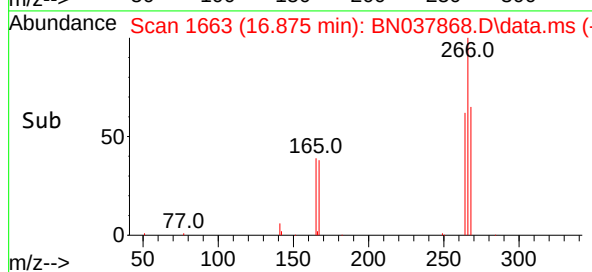
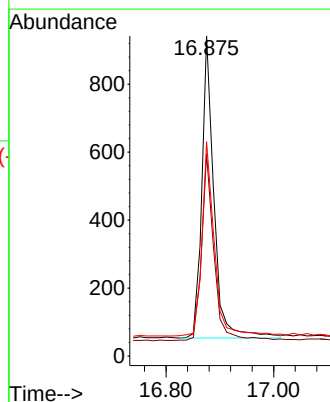
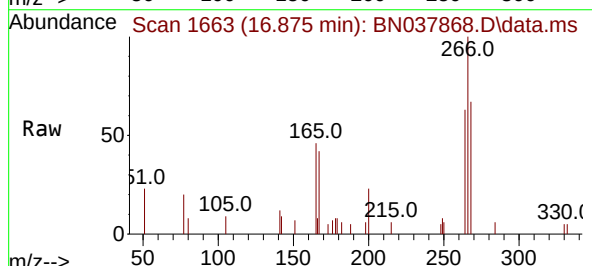
Tgt Ion:266 Resp: 1396

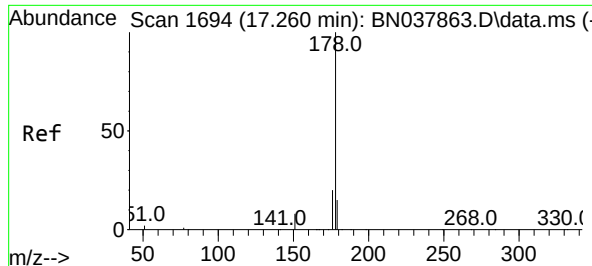
Ion Ratio Lower Upper

266 100

264 63.8 50.9 76.3

268 66.0 54.3 81.5

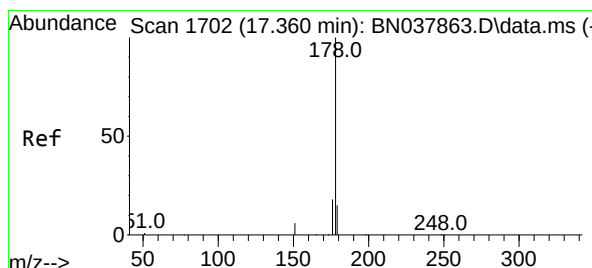
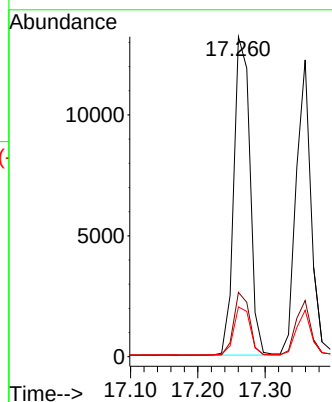
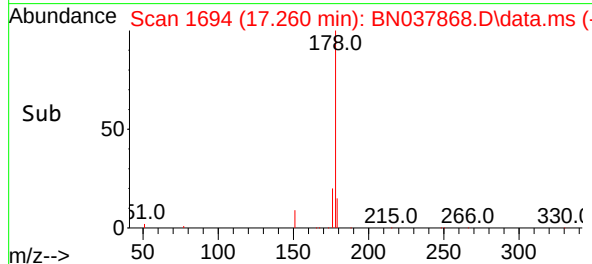
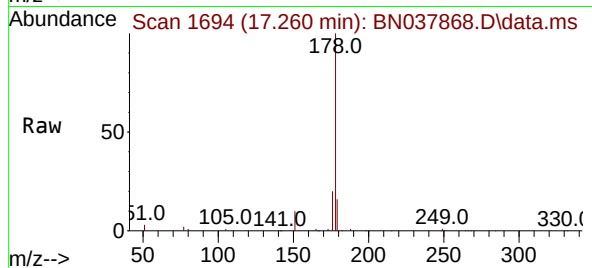




#25
Phenanthrene
Concen: 0.411 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

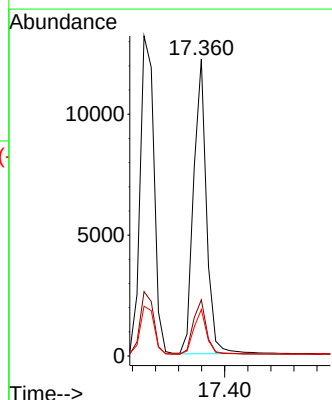
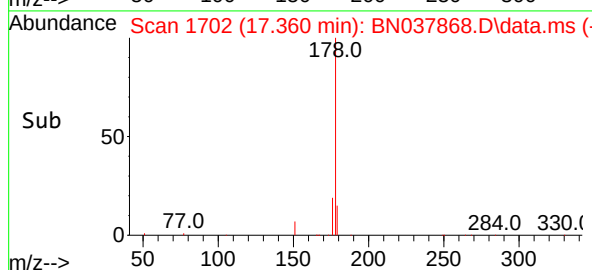
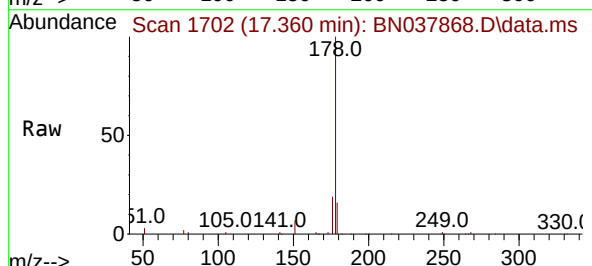
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

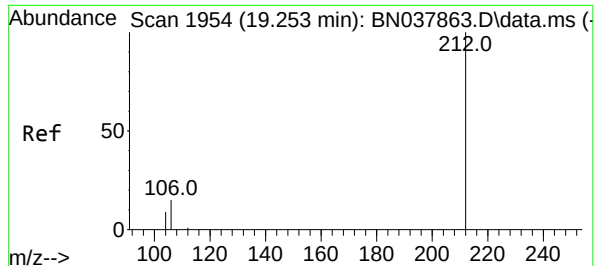
Tgt Ion:178 Resp: 22020
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.4 12.3 18.5



#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

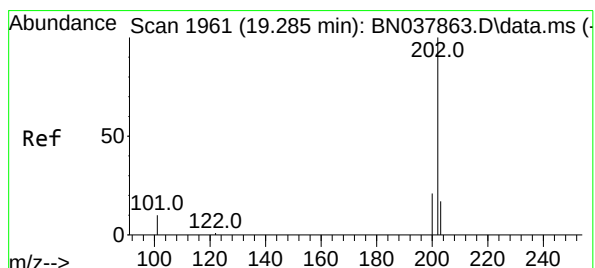
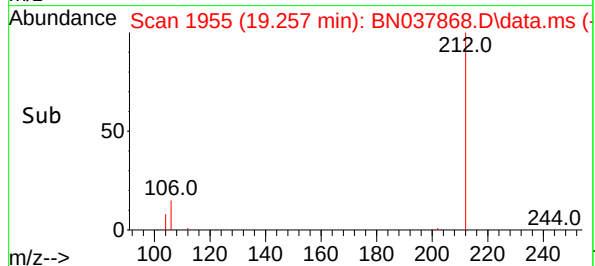
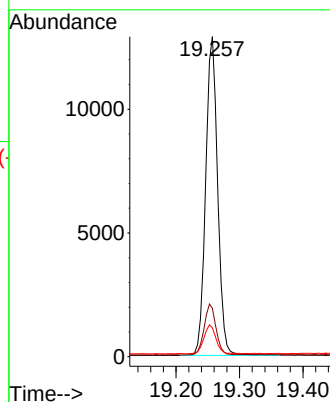
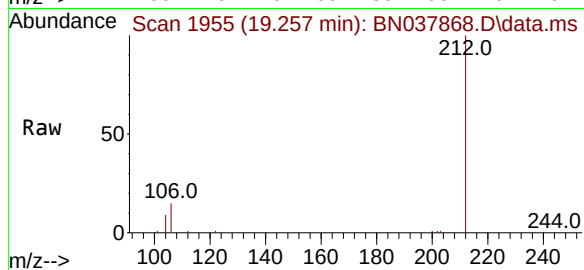
Tgt Ion:212 Resp: 16910

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

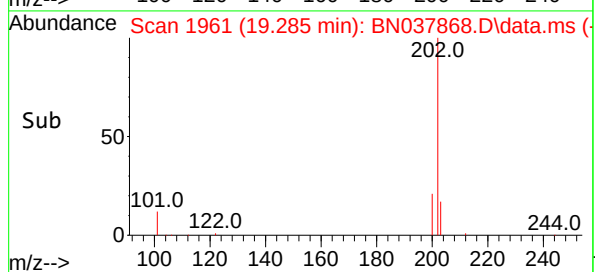
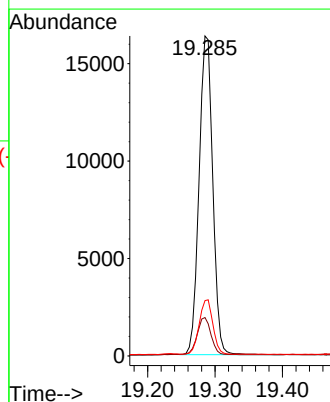
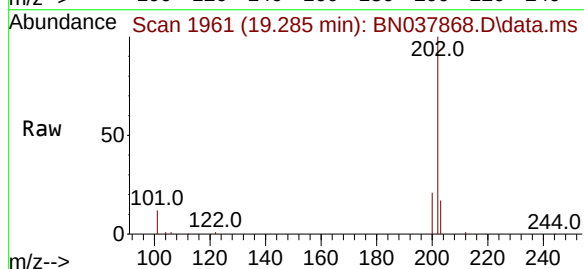
Tgt Ion:202 Resp: 23044

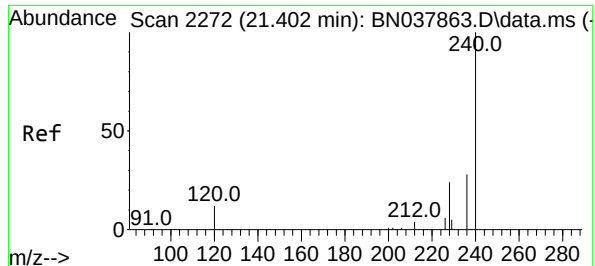
Ion Ratio Lower Upper

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

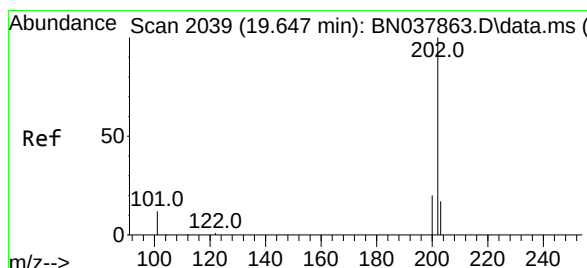
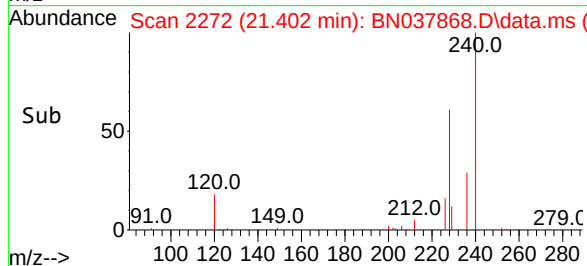
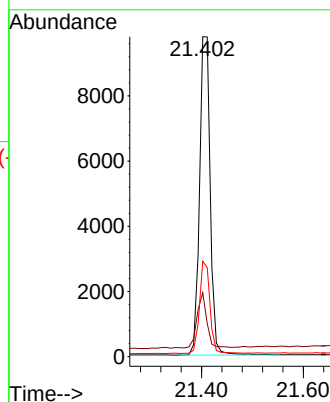
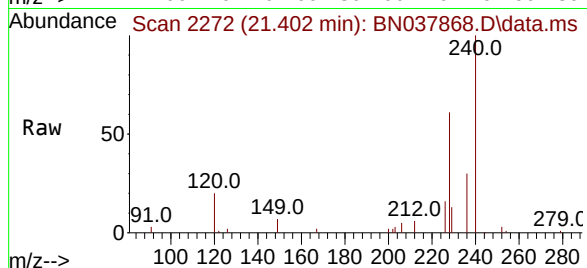
Tgt Ion:240 Resp: 14204

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

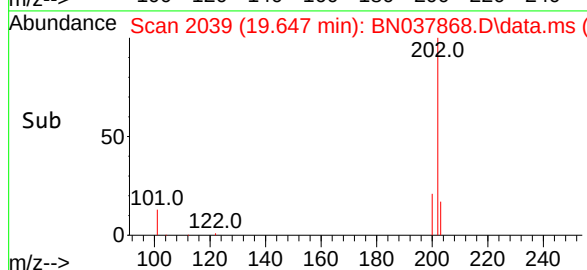
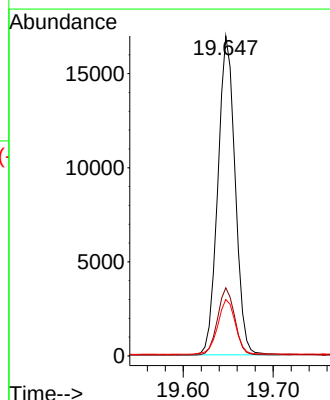
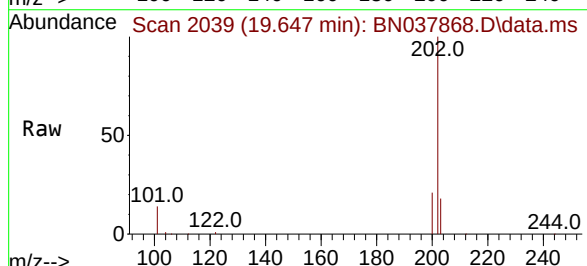
Tgt Ion:202 Resp: 22563

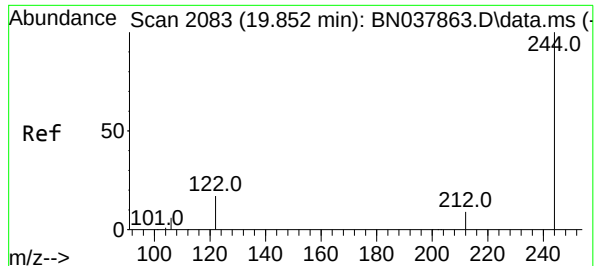
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

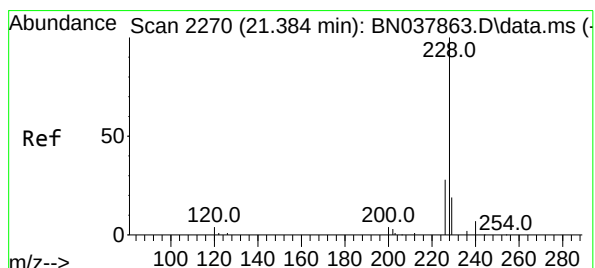
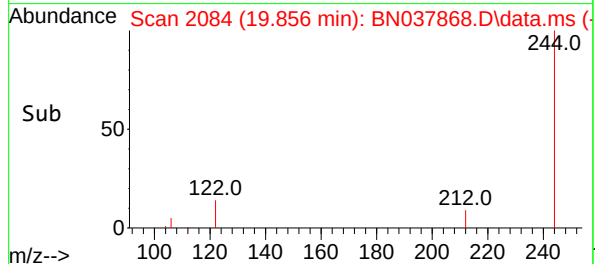
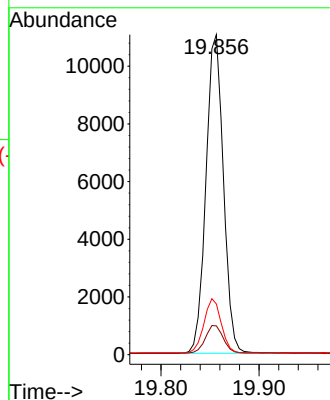
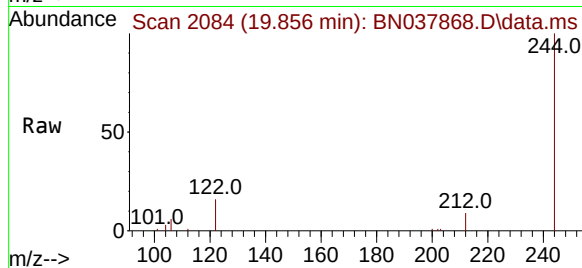




#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

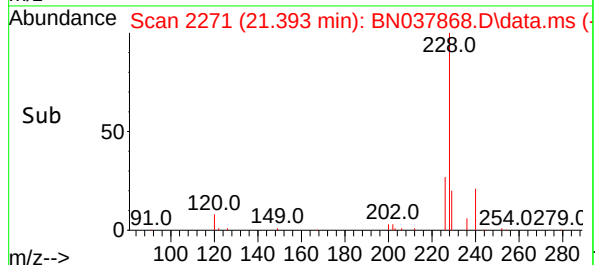
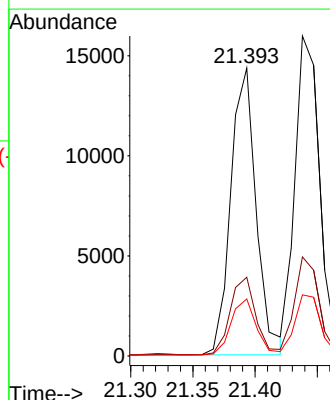
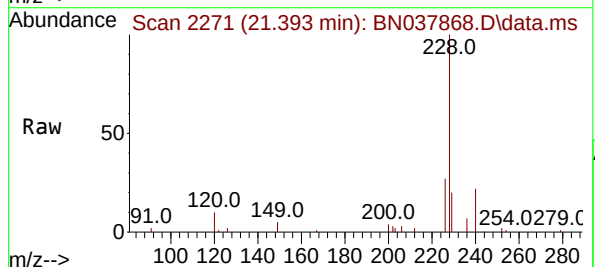
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

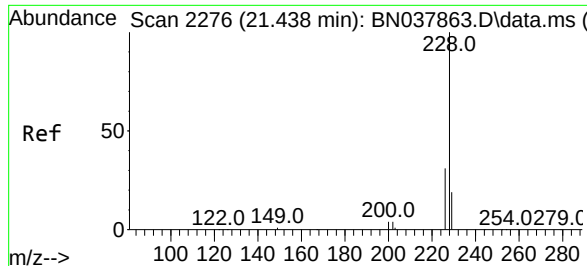
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	15.9	13.9	20.9



#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

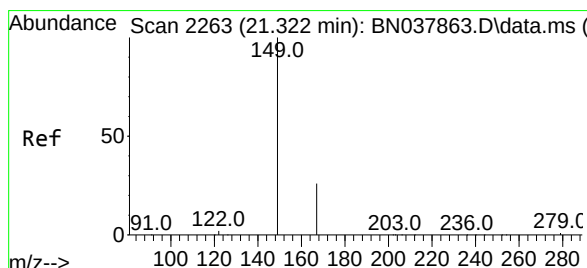
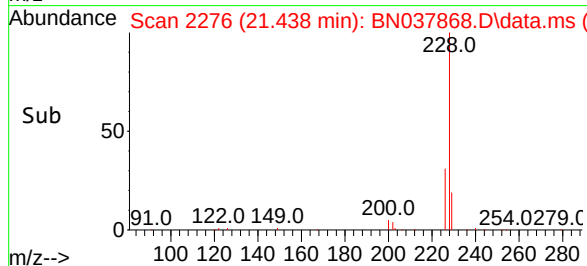
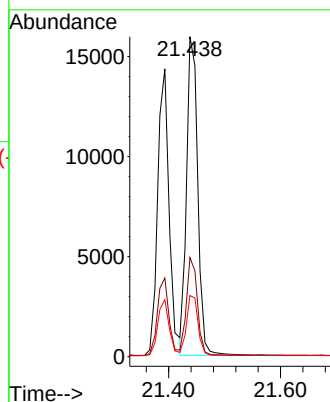
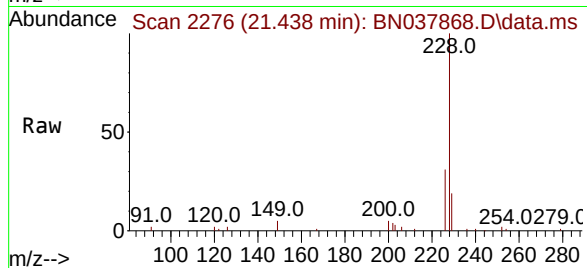
Tgt Ion:228 Resp: 22204

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

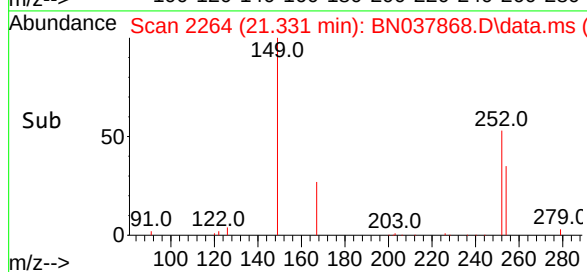
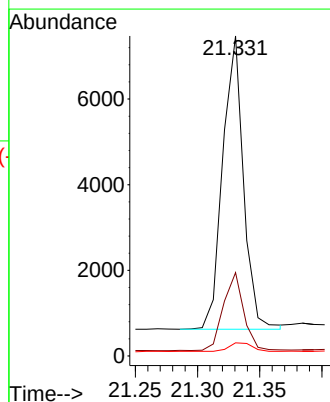
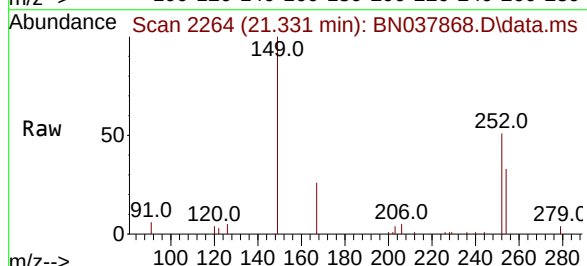
Tgt Ion:149 Resp: 7939

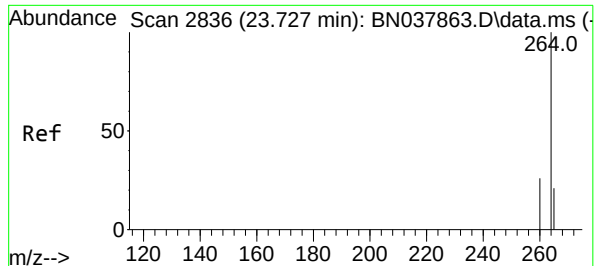
Ion Ratio Lower Upper

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

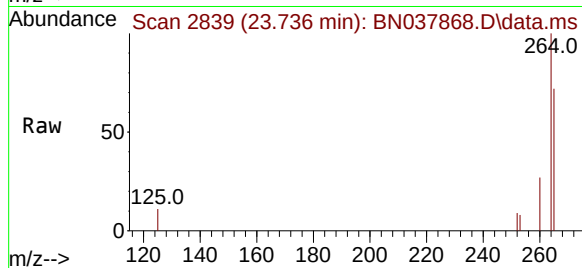
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



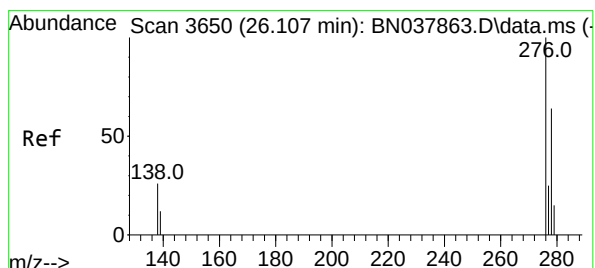
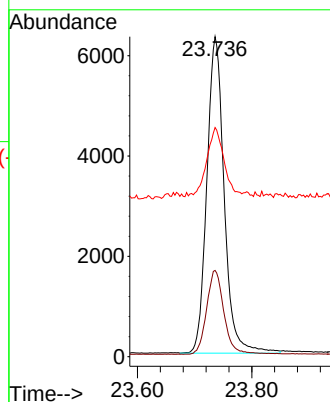
Tgt Ion:264 Resp: 13265

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

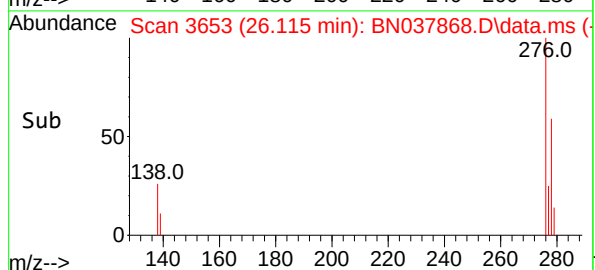
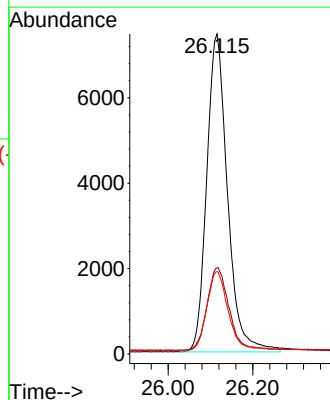
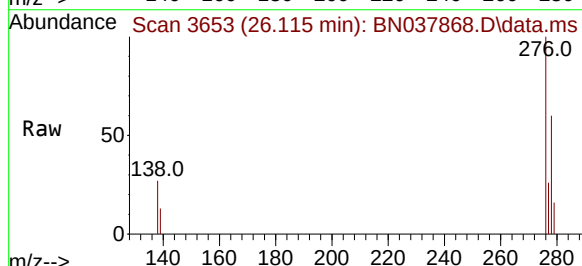
Tgt Ion:276 Resp: 25340

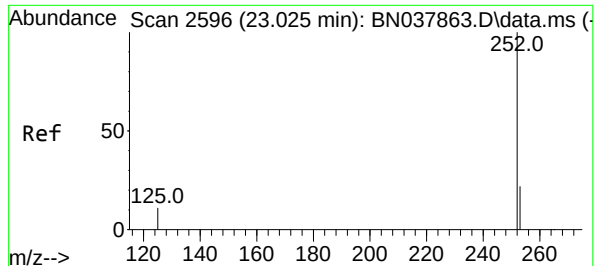
Ion Ratio Lower Upper

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# 2596

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

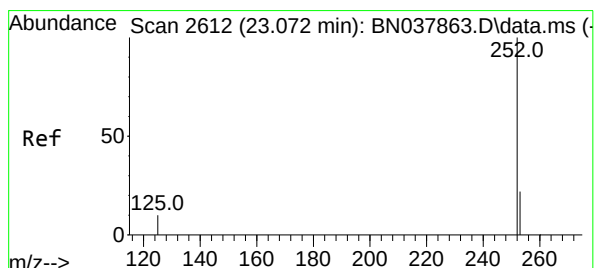
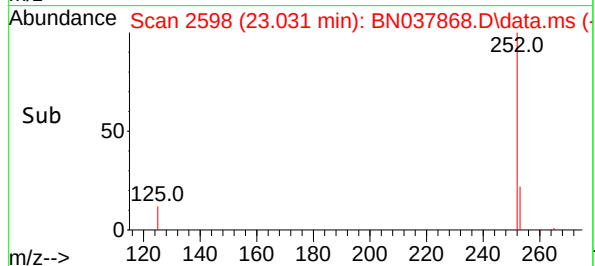
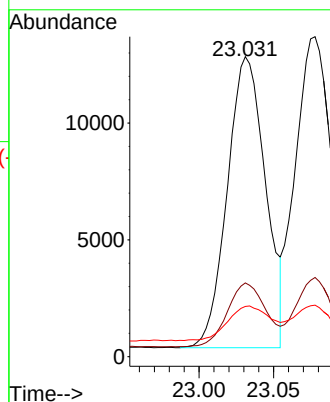
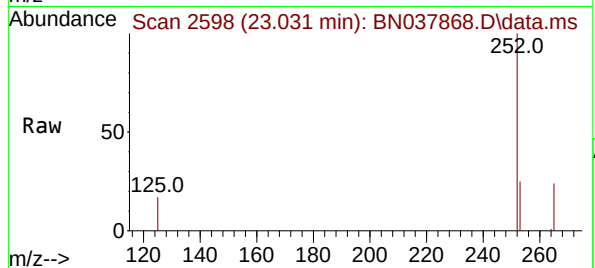
Tgt Ion:252 Resp: 22193

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

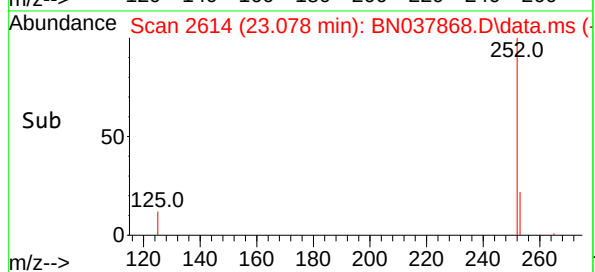
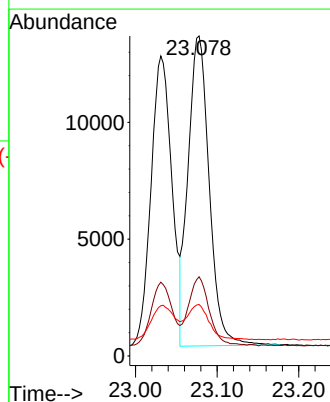
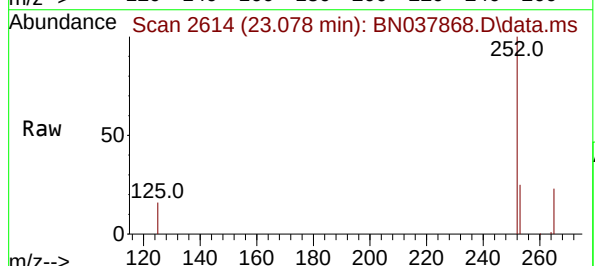
Tgt Ion:252 Resp: 23886

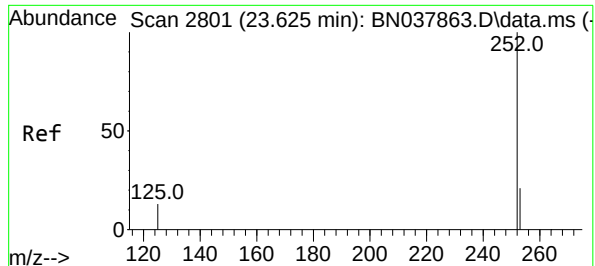
Ion Ratio Lower Upper

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

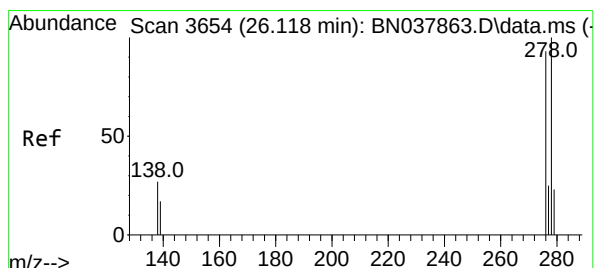
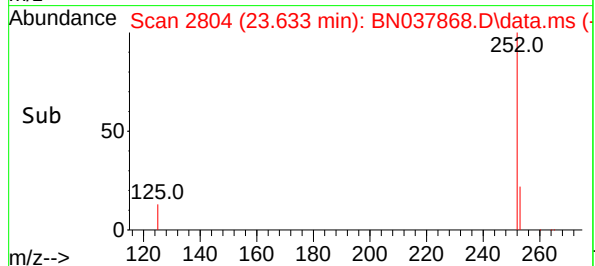
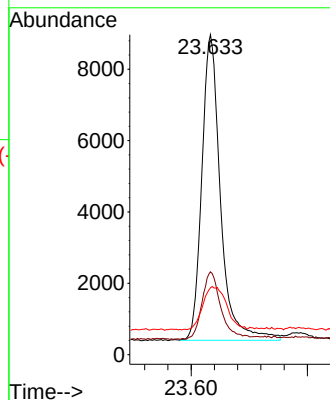
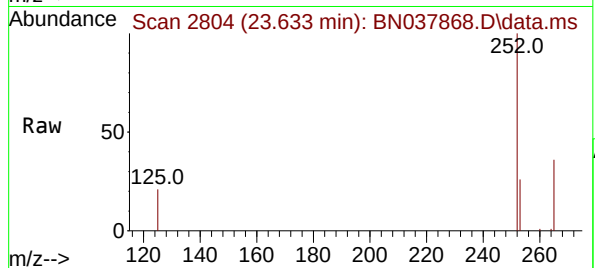
Tgt Ion:252 Resp: 19091

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

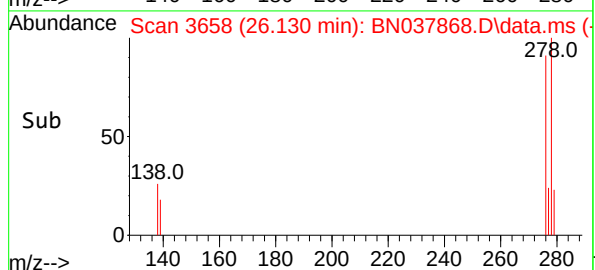
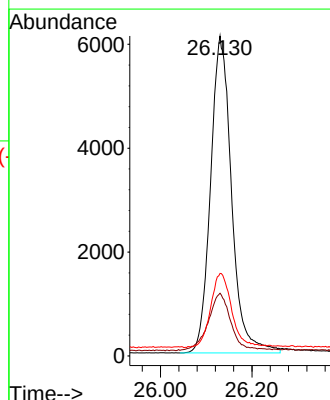
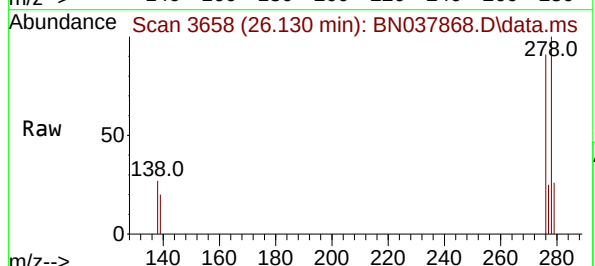
Tgt Ion:278 Resp: 19441

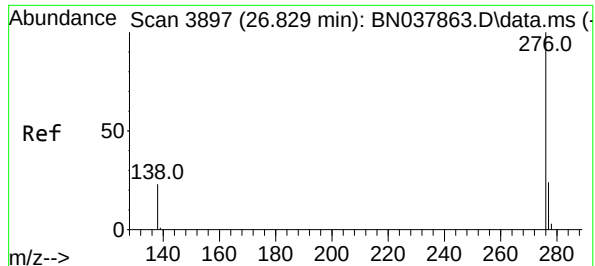
Ion Ratio Lower Upper

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

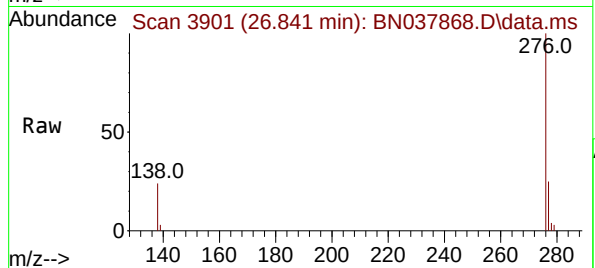
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



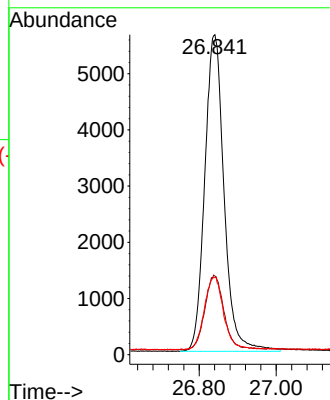
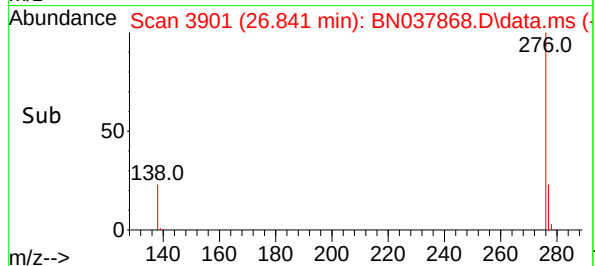
Tgt Ion:276 Resp: 19570

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.: Q3165
 Instrument ID: BNA_N Calibration Date/Time: 09/29/2025 11:30
 Lab File ID: BN037931.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	0.515		-7.4	20.0
Fluoranthene-d10	1.006	0.853		-15.2	20.0
2-Fluorophenol	0.913	0.894		-2.1	20.0
Phenol-d6	1.199	1.159		-3.3	20.0
Nitrobenzene-d5	0.305	0.277		-9.2	20.0
2-Fluorobiphenyl	1.638	1.554		-5.1	20.0
2,4,6-Tribromophenol	0.152	0.134		-11.8	20.0
Terphenyl-d14	0.797	0.840		5.4	20.0
1,4-Dioxane	0.406	0.433		6.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
 Data File : BN037931.D
 Acq On : 29 Sep 2025 11:30
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 29 11:59:53 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

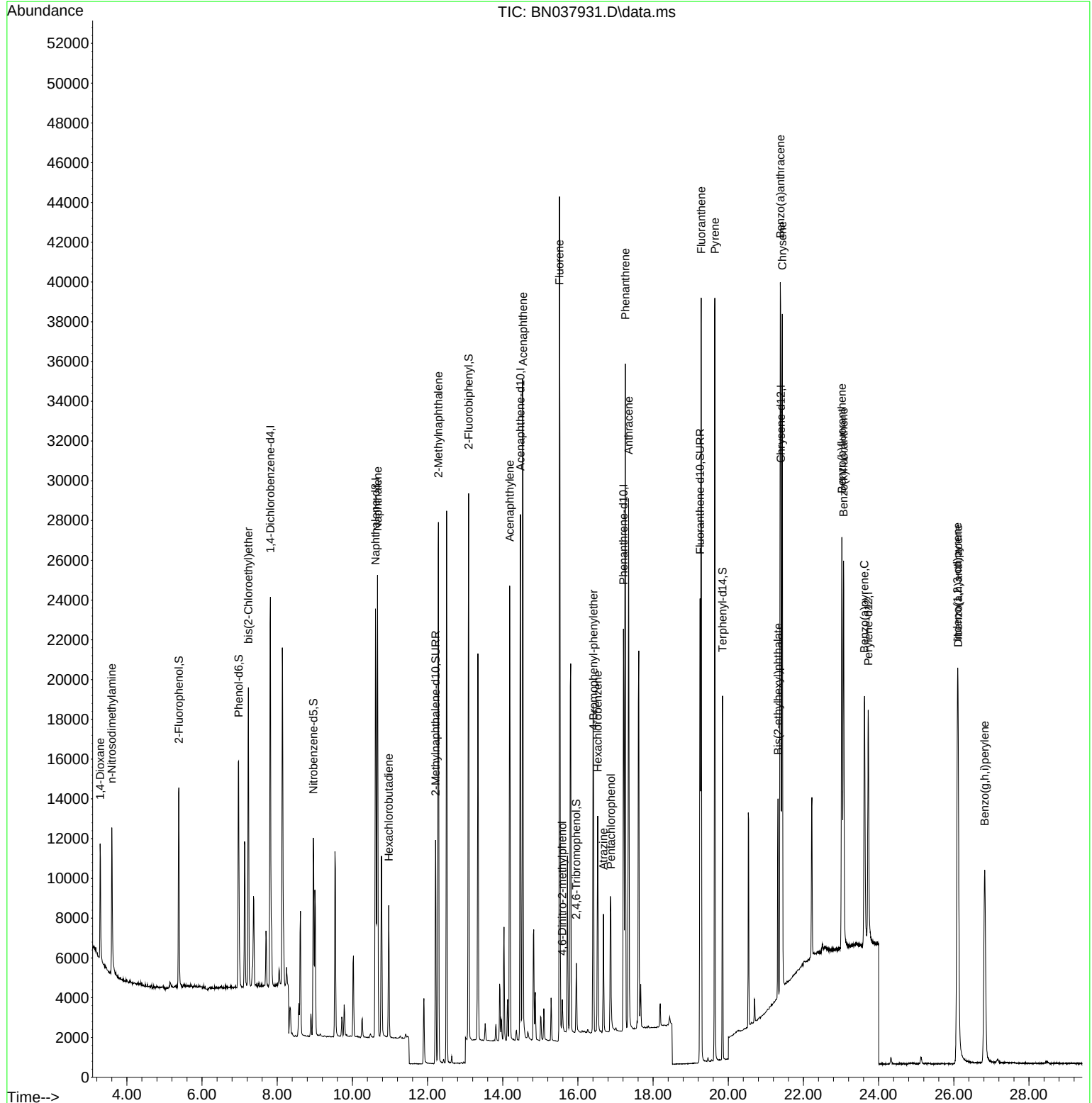
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	9694	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	28657	0.400	ng	#-0.01
13) Acenaphthene-d10	14.473	164	15093	0.400	ng	0.00
19) Phenanthrene-d10	17.211	188	28466	0.400	ng	#-0.01
29) Chrysene-d12	21.402	240	20163	0.400	ng	# 0.00
35) Perylene-d12	23.724	264	15946	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	8663	0.392	ng	0.00
5) Phenol-d6	6.973	99	11235	0.387	ng	0.00
8) Nitrobenzene-d5	8.961	82	7937	0.363	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	14772	0.371	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	2024	0.354	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	23458	0.380	ng	0.00
27) Fluoranthene-d10	19.248	212	24269	0.339	ng	0.00
31) Terphenyl-d14	19.847	244	16933	0.422	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	4199	0.427	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.600	42	4462	0.341	ng	# 86
6) bis(2-Chloroethyl)ether	7.233	93	10399	0.385	ng	100
9) Naphthalene	10.669	128	30106	0.381	ng	99
10) Hexachlorobutadiene	10.968	225	5108	0.379	ng	# 99
12) 2-Methylnaphthalene	12.288	142	19182	0.372	ng	99
16) Acenaphthylene	14.184	152	25195	0.368	ng	99
17) Acenaphthene	14.537	154	17735	0.363	ng	99
18) Fluorene	15.510	166	20552	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.585	198	1125	0.375	ng	# 70
21) 4-Bromophenyl-phenylether	16.416	248	6933	0.374	ng	# 83
22) Hexachlorobenzene	16.528	284	8410	0.374	ng	98
23) Atrazine	16.677	200	4378	0.310	ng	# 94
24) Pentachlorophenol	16.875	266	3882	0.503	ng	97
25) Phenanthrene	17.260	178	34214	0.365	ng	100
26) Anthracene	17.347	178	28614	0.352	ng	100
28) Fluoranthene	19.280	202	35180	0.341	ng	100
30) Pyrene	19.643	202	34613	0.435	ng	100
32) Benzo(a)anthracene	21.384	228	26386	0.374	ng	99
33) Chrysene	21.438	228	29326	0.385	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	8884	0.319	ng	100
36) Indeno(1,2,3-cd)pyrene	26.098	276	26409	0.362	ng	99
37) Benzo(b)fluoranthene	23.022	252	26939	0.392	ng	98
38) Benzo(k)fluoranthene	23.069	252	26600	0.384	ng	98
39) Benzo(a)pyrene	23.622	252	20657	0.380	ng	97
40) Dibenzo(a,h)anthracene	26.113	278	20582	0.362	ng	99
41) Benzo(g,h,i)perylene	26.823	276	21987	0.368	ng	99

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

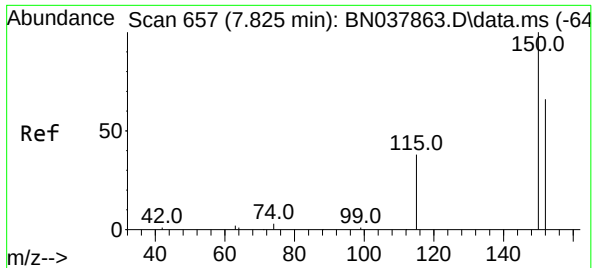
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Data File : BN037931.D
Acq On : 29 Sep 2025 11:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 29 11:59:53 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



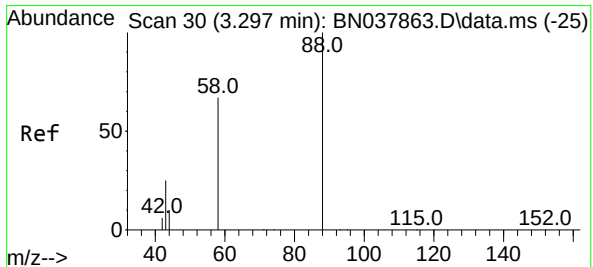
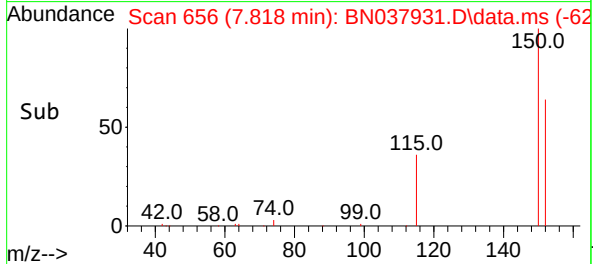
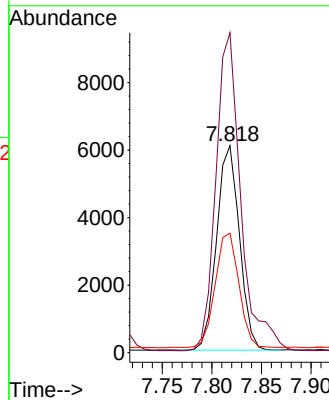
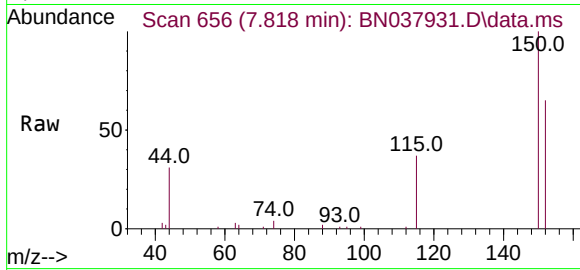
1
2
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16
17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

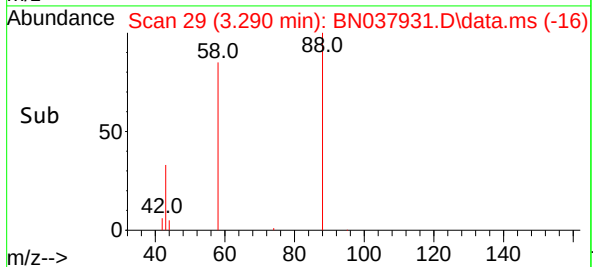
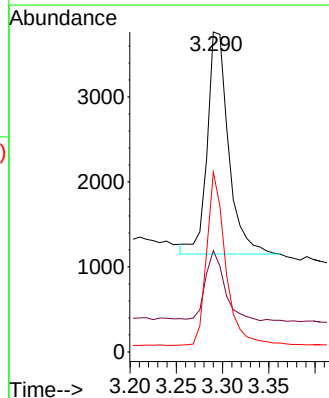
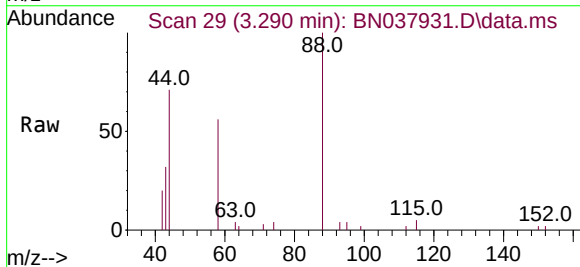
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 9694
Ion Ratio Lower Upper
152 100
150 154.6 121.0 181.4
115 57.7 47.4 71.0

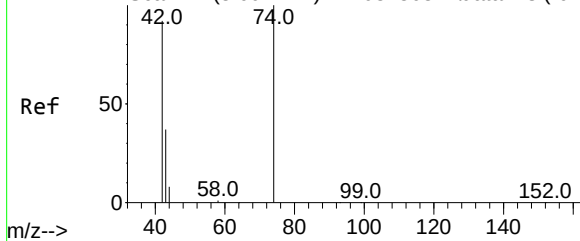


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion: 88 Resp: 4199
Ion Ratio Lower Upper
88 100
43 28.0 26.6 39.8
58 69.5 58.9 88.3



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



#3

n-Nitrosodimethylamine

Concen: 0.341 ng

RT: 3.600 min Scan# 72

Delta R.T. -0.000 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 4462

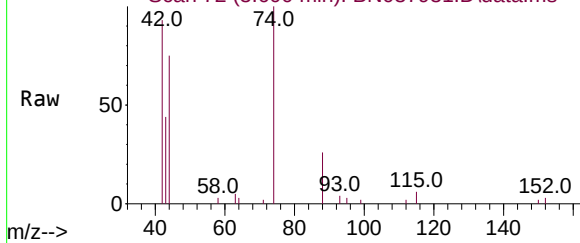
Ion Ratio Lower Upper

42 100

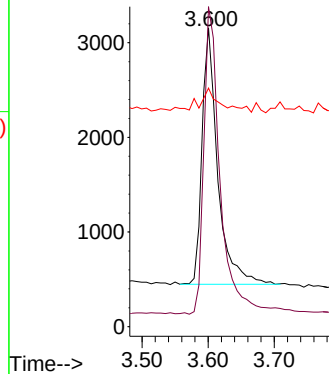
74 125.1 93.4 140.0

44 7.8 22.2 33.4#

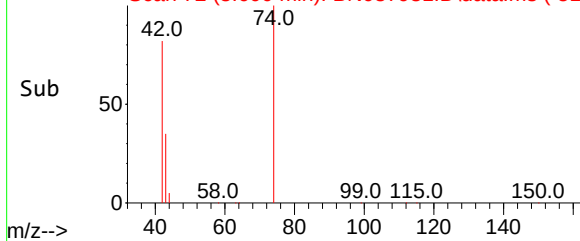
Abundance Scan 72 (3.601 min): BN037931.D\data.ms



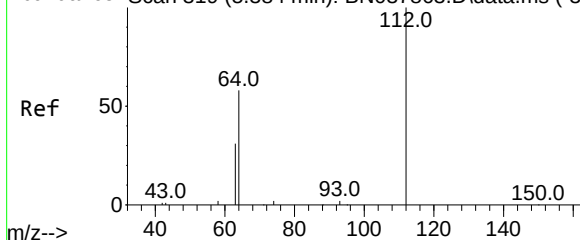
Abundance



Abundance Scan 72 (3.601 min): BN037931.D\data.ms (-51)



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



#4

2-Fluorophenol

Concen: 0.392 ng

RT: 5.384 min Scan# 319

Delta R.T. -0.000 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Tgt Ion: 112 Resp: 8663

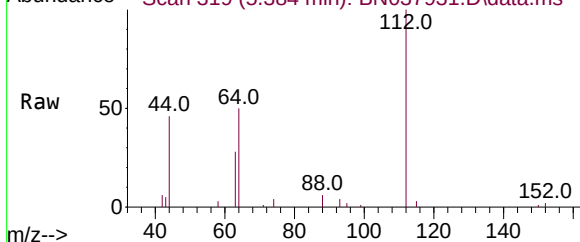
Ion Ratio Lower Upper

112 100

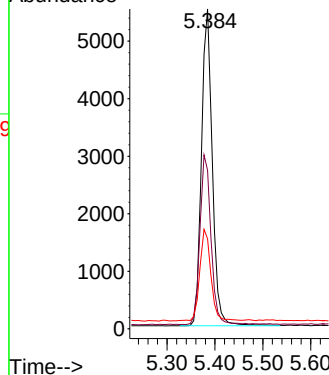
64 54.6 44.6 66.8

63 29.2 24.9 37.3

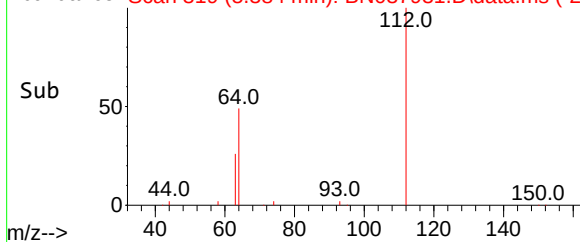
Abundance Scan 319 (5.384 min): BN037931.D\data.ms

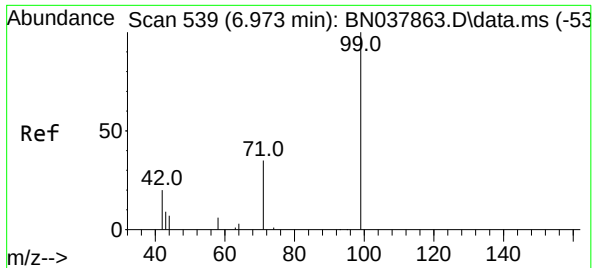


Abundance



Abundance Scan 319 (5.384 min): BN037931.D\data.ms (-29)

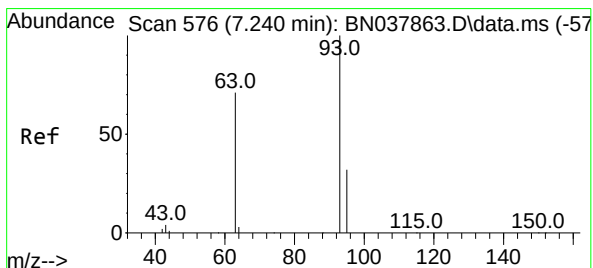
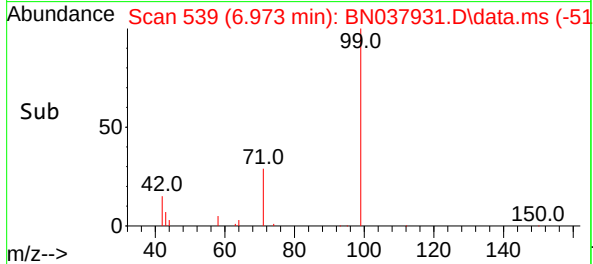
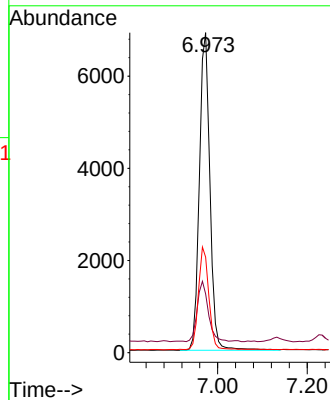
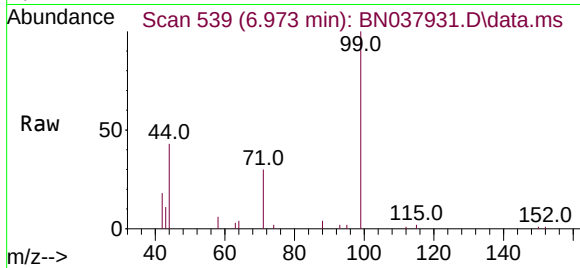




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.973 min Scan# 531
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

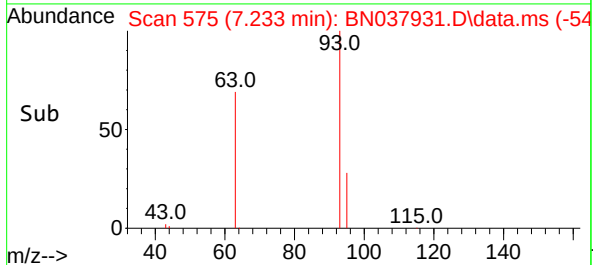
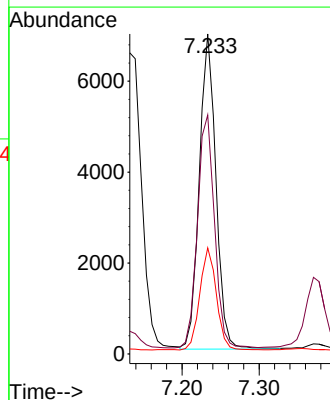
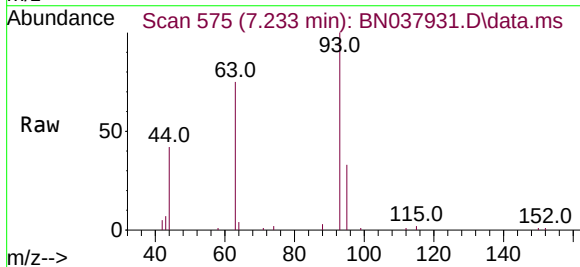
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

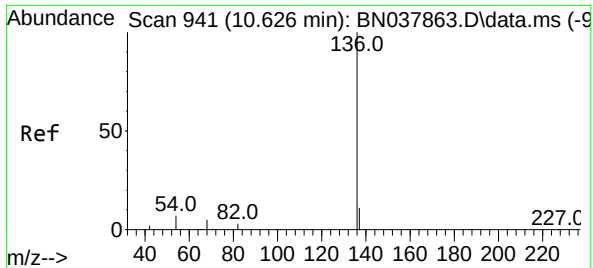
Tgt Ion:	99	Resp:	11235
Ion	Ratio	Lower	Upper
99	100		
42	20.0	17.2	25.8
71	32.4	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.385 ng
RT: 7.233 min Scan# 575
Delta R.T. -0.007 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:	93	Resp:	10399
Ion	Ratio	Lower	Upper
93	100		
63	75.5	60.1	90.1
95	32.1	25.4	38.2

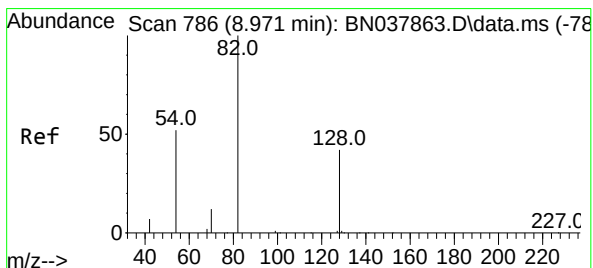
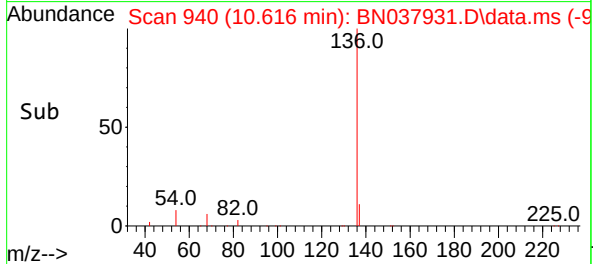
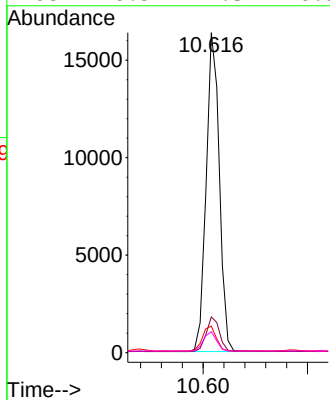
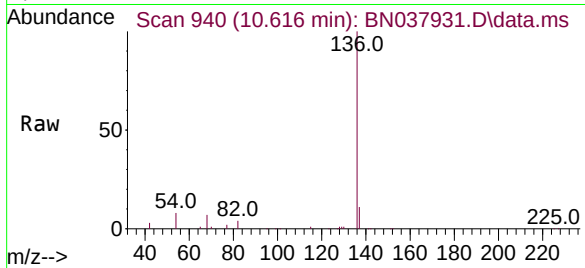




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

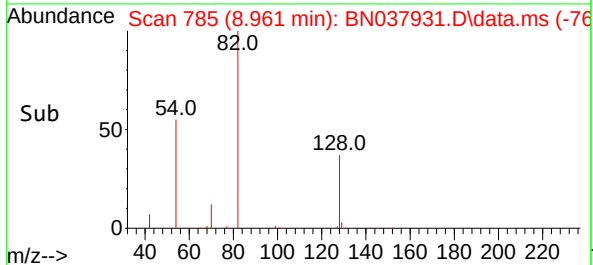
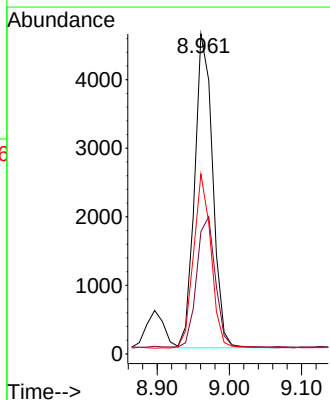
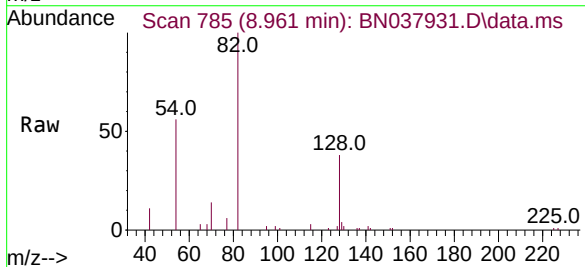
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

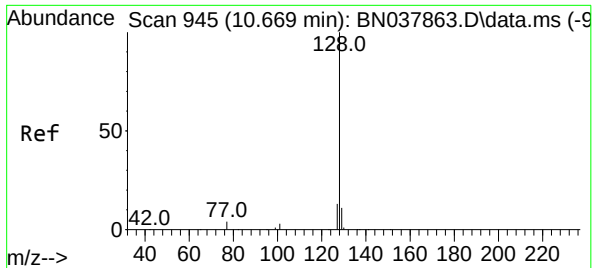
Tgt Ion:136	Resp:	28657
Ion Ratio	Lower	Upper
136	100	
137	11.1	9.0 13.4
54	8.3	5.8 8.8
68	6.5	4.3 6.5



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion: 82	Resp:	7937
Ion Ratio	Lower	Upper
82	100	
128	38.3	34.8 52.2
54	56.2	42.2 63.2

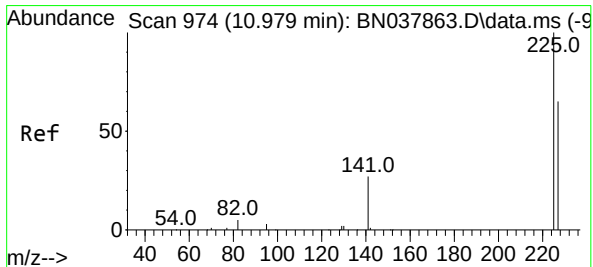
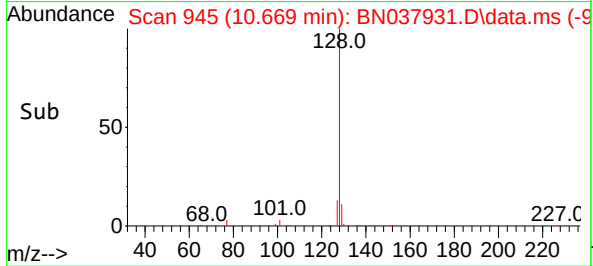
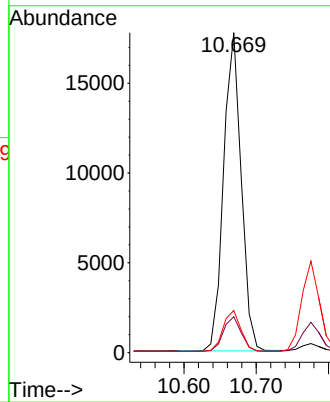
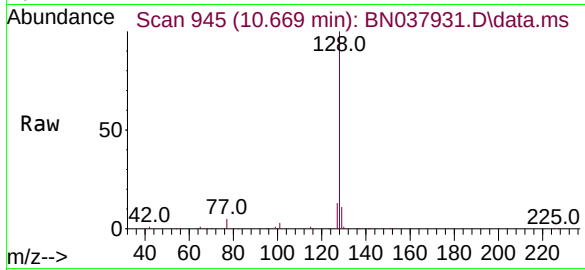




#9
Naphthalene
Concen: 0.381 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

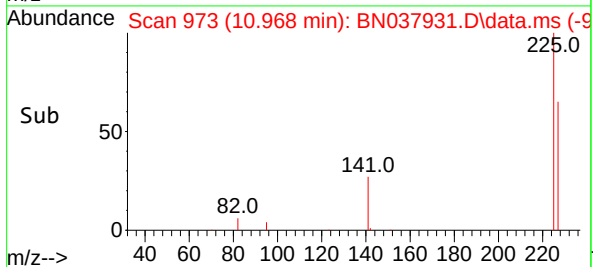
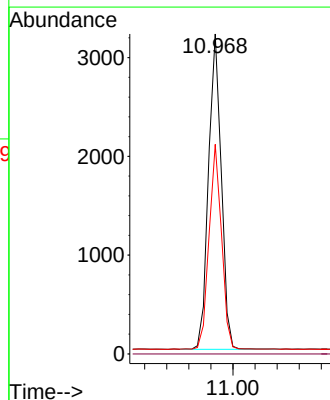
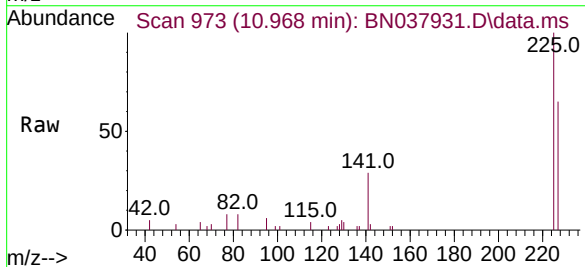
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BNA_N
ClientSampleId :
SSTDCCC0.4

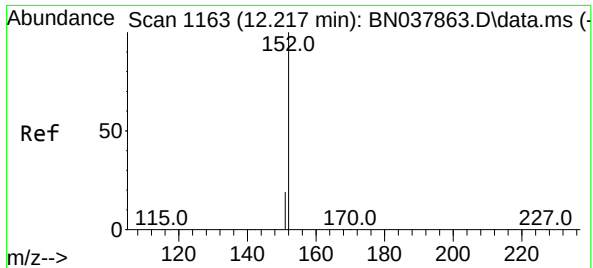
Tgt Ion:	128	Resp:	30106
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.379 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:	225	Resp:	5108
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.4	77.2

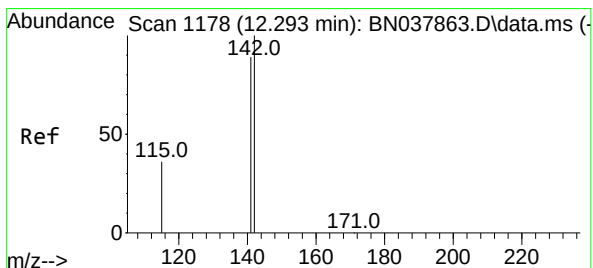
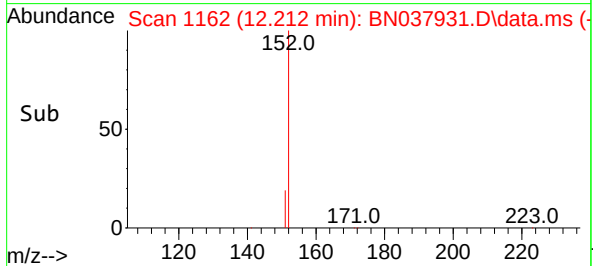
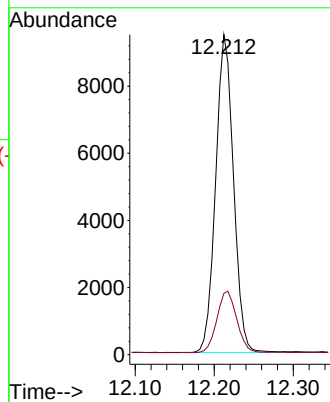
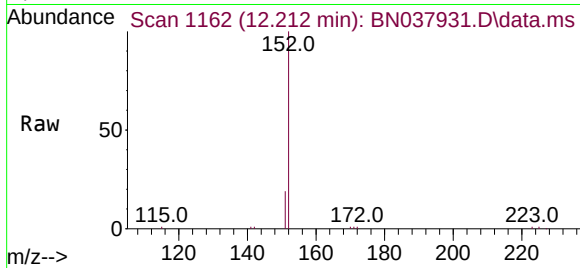




#11
2-Methylnaphthalene-d10
Concen: 0.371 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

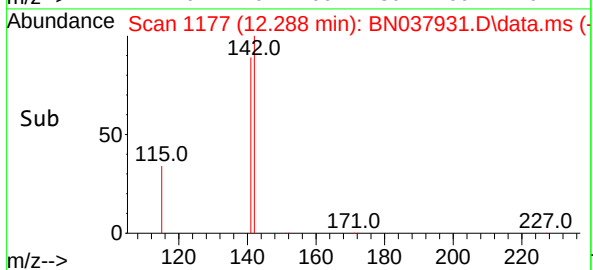
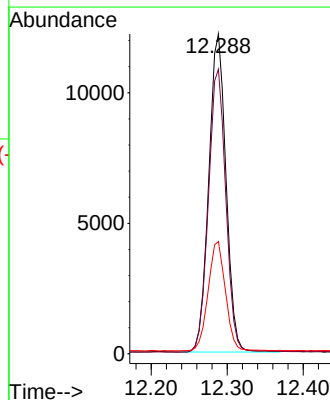
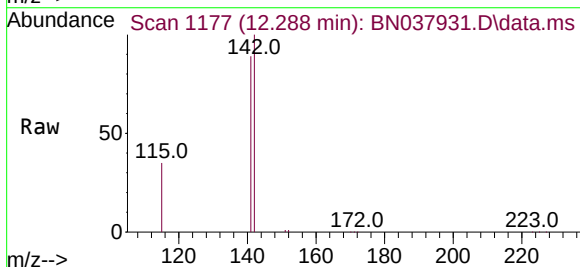
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

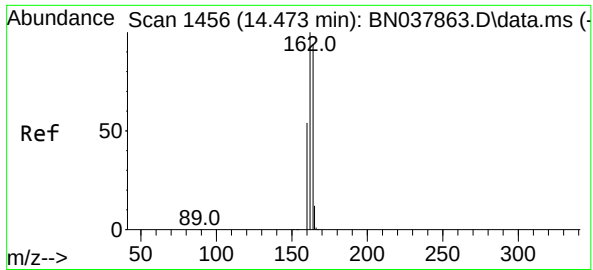
Tgt Ion:152 Resp: 14772
Ion Ratio Lower Upper
152 100
151 21.6 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.288 min Scan# 1177
Delta R.T. -0.005 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:142 Resp: 19182
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 35.1 29.7 44.5

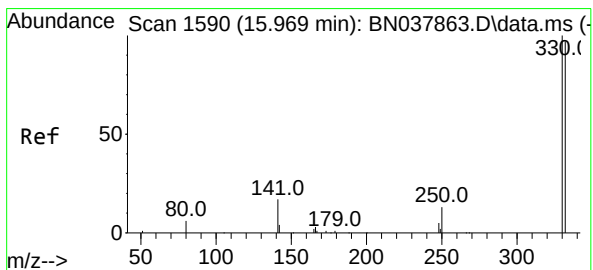
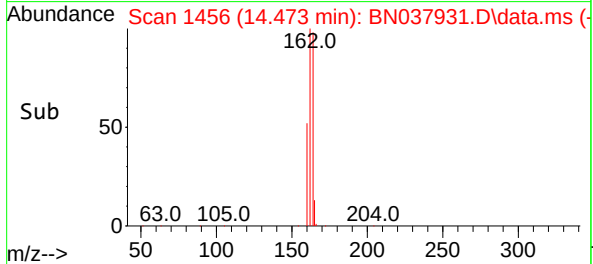
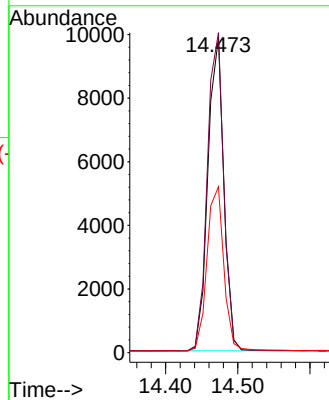
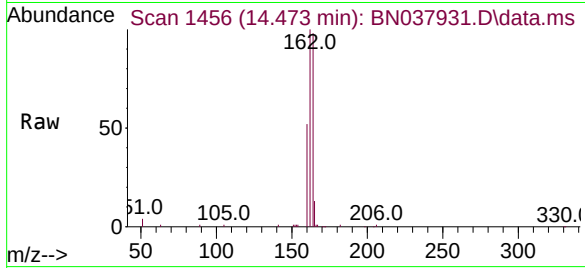




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

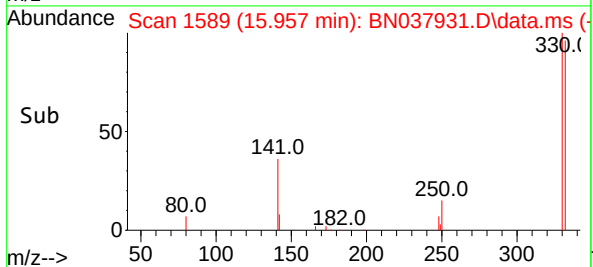
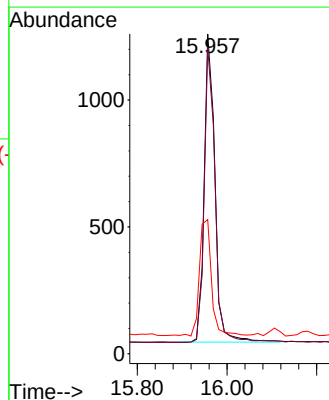
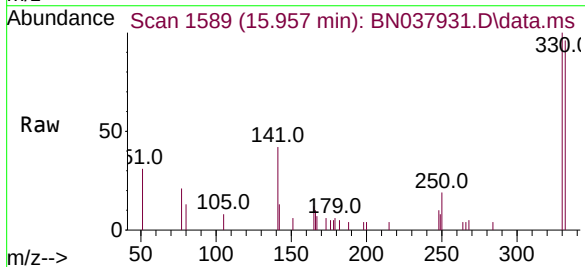
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

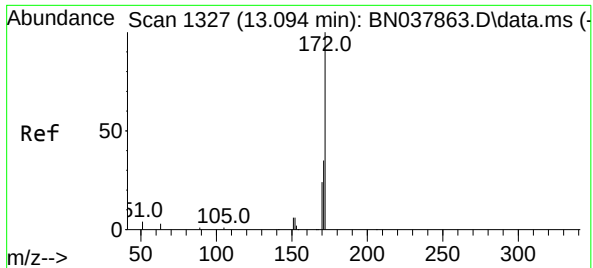
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	84.8	127.2
160	52.7	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.354 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.2	115.8
141	41.7	37.2	55.8

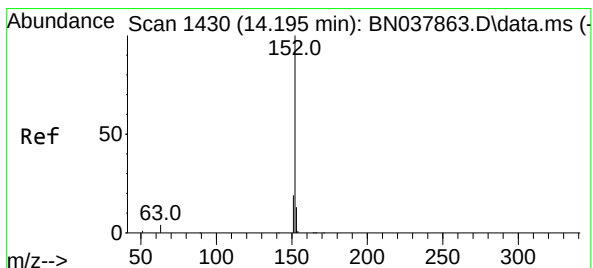
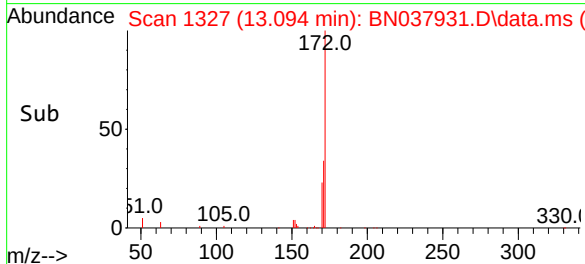
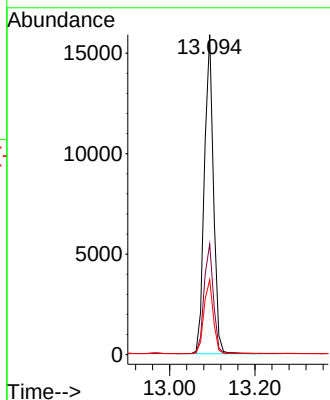
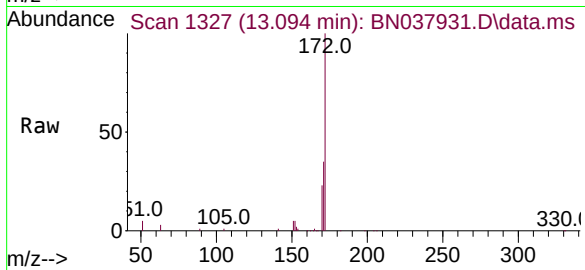




#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

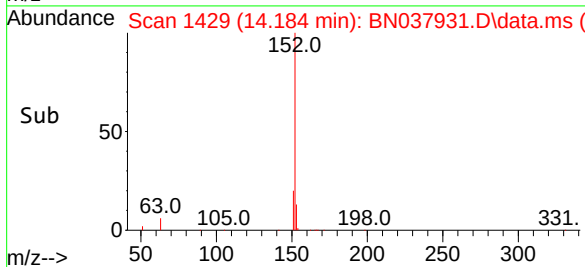
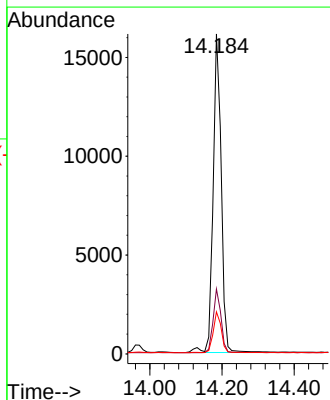
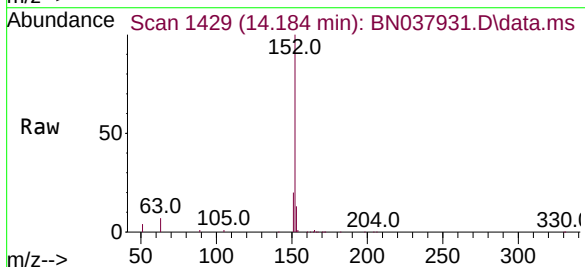
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

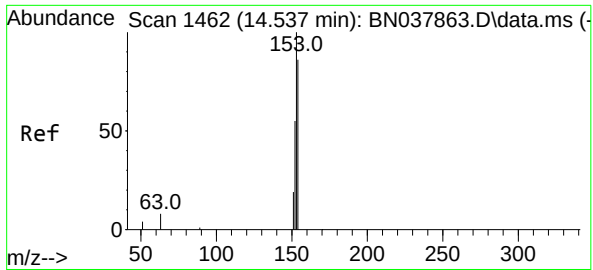
Tgt Ion:	172	Resp:	23458
Ion Ratio	Lower	Upper	
172	100		
171	34.5	28.6	43.0
170	23.4	19.7	29.5



#16
Acenaphthylene
Concen: 0.368 ng
RT: 14.184 min Scan# 1429
Delta R.T. -0.011 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:	152	Resp:	25195
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.8	23.8
153	13.0	10.5	15.7

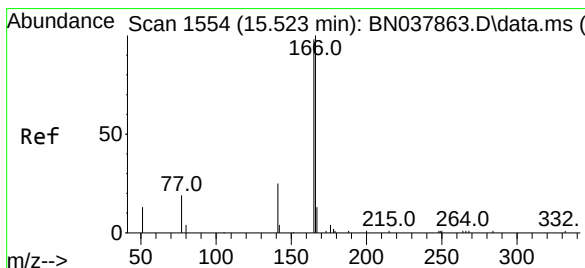
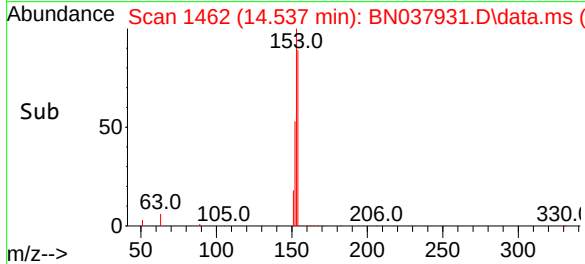
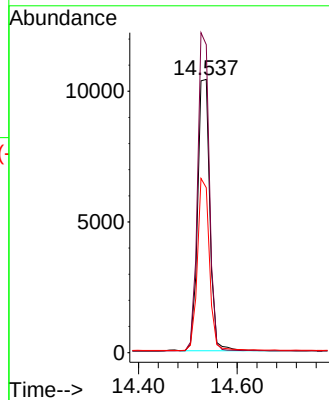
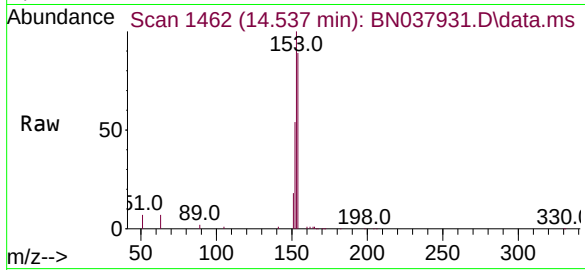




#17
Acenaphthene
Concen: 0.363 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

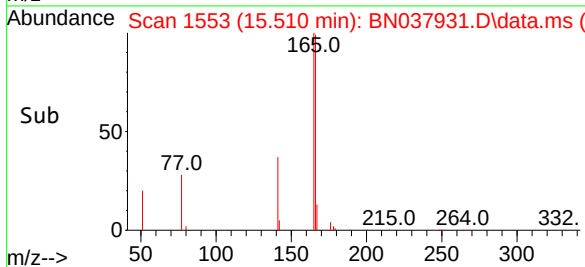
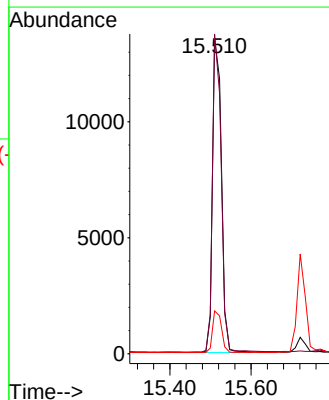
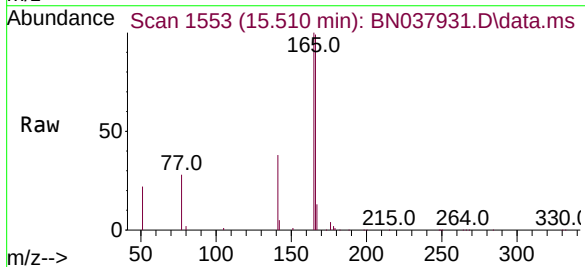
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

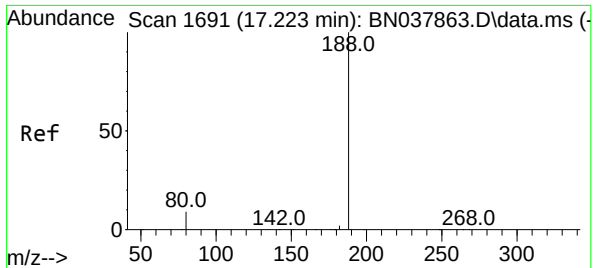
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.9	90.5	135.7
152	63.1	51.8	77.8



#18
Fluorene
Concen: 0.348 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.0	118.4
167	13.7	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1691

Delta R.T. -0.012 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

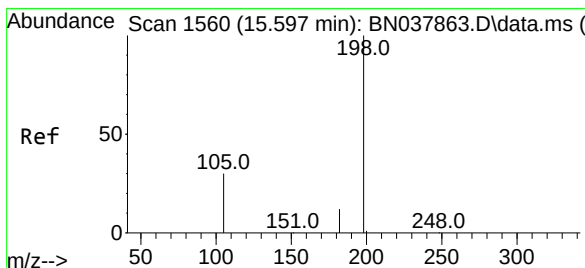
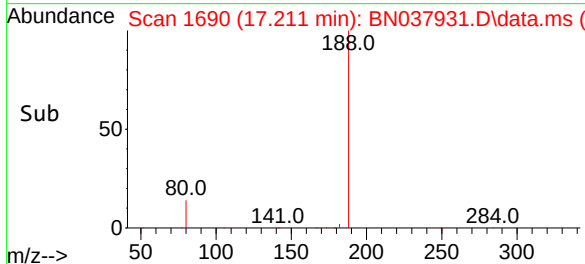
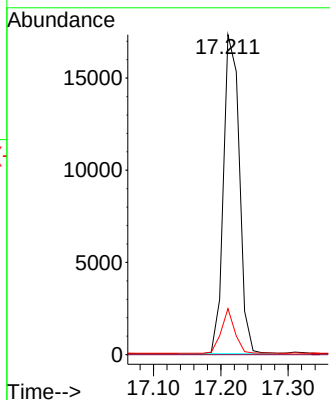
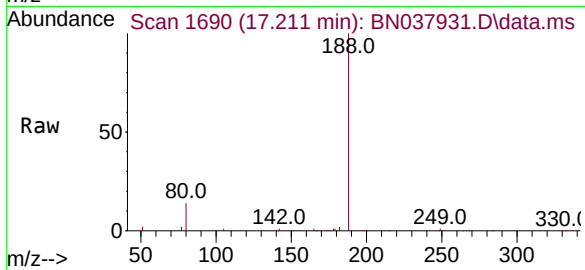
Tgt Ion:188 Resp: 28466

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.4 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.375 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

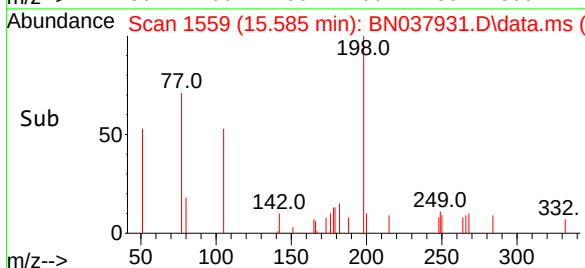
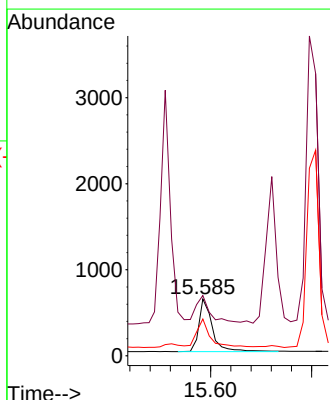
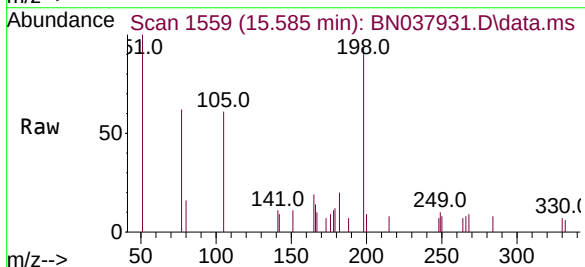
Tgt Ion:198 Resp: 1125

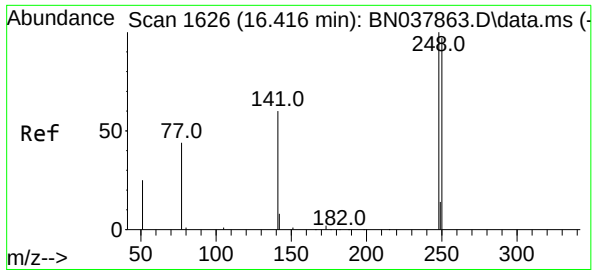
Ion Ratio Lower Upper

198 100

51 106.1 59.1 88.7#

105 64.8 41.3 61.9#

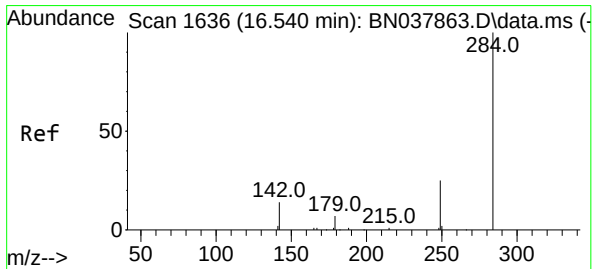
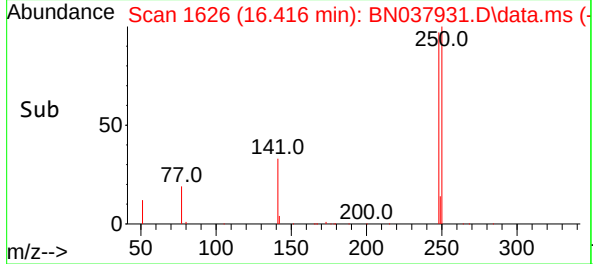
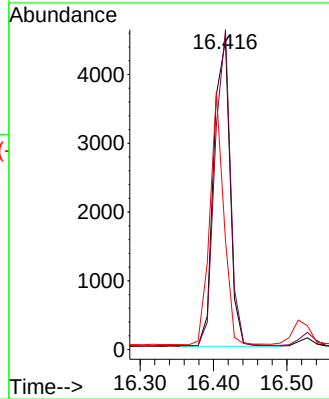
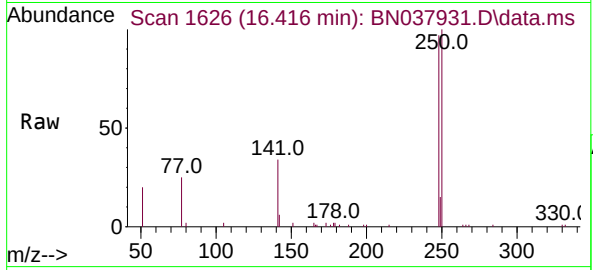




#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

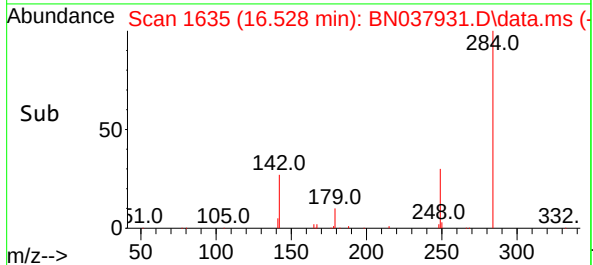
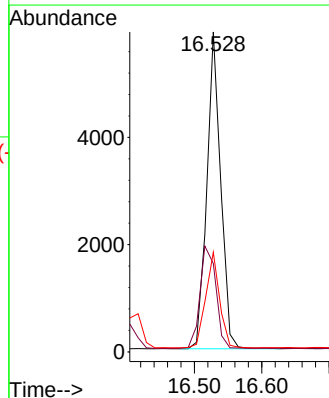
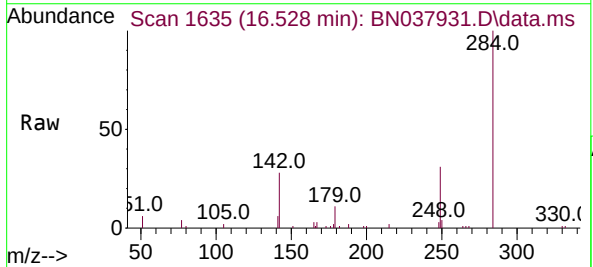
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

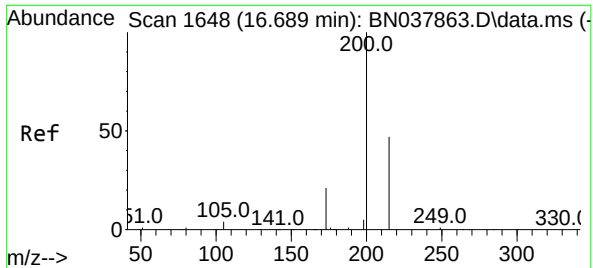
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	77.6	116.4
141	35.4	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.3	23.9	35.9

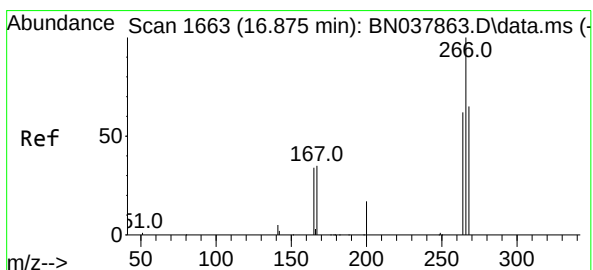
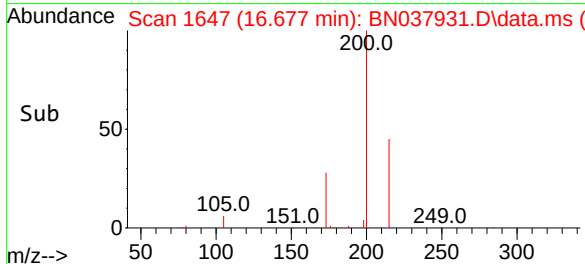
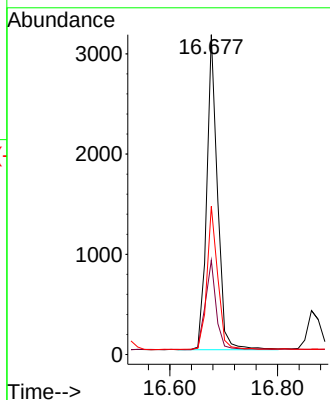
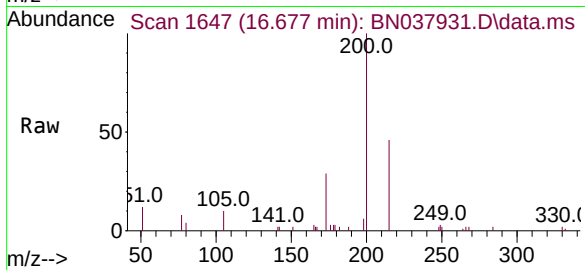




#23
Atrazine
Concen: 0.310 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

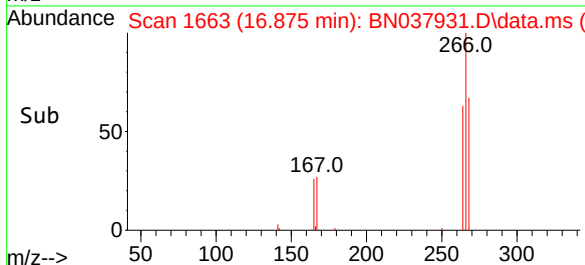
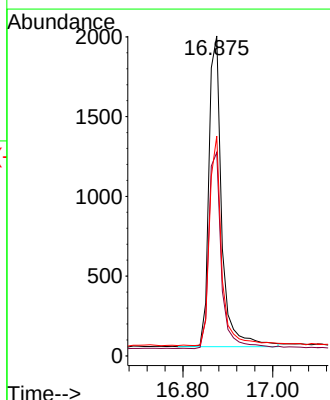
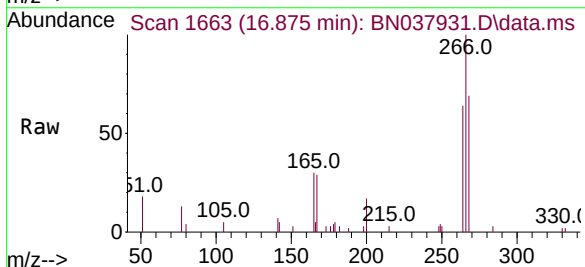
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

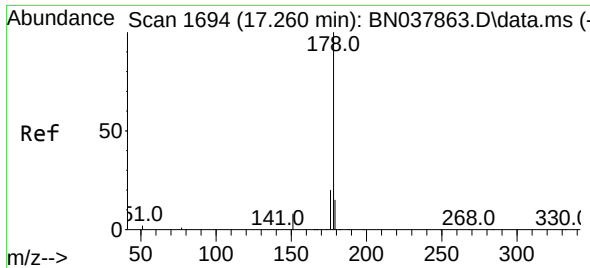
Tgt Ion:200 Resp: 4378
Ion Ratio Lower Upper
200 100
173 29.5 18.3 27.5#
215 46.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.503 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:266 Resp: 3882
Ion Ratio Lower Upper
266 100
264 62.7 50.9 76.3
268 64.0 54.3 81.5

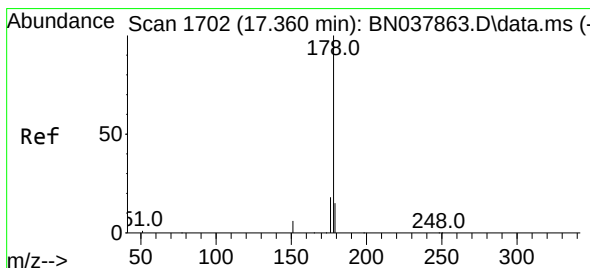
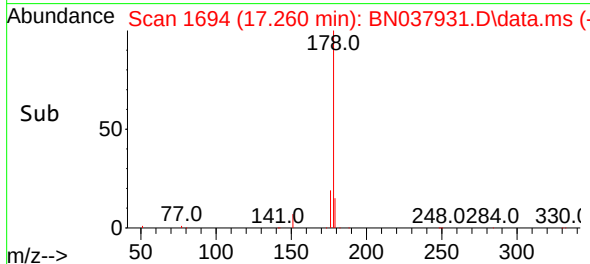
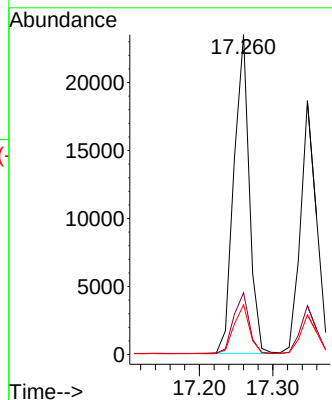
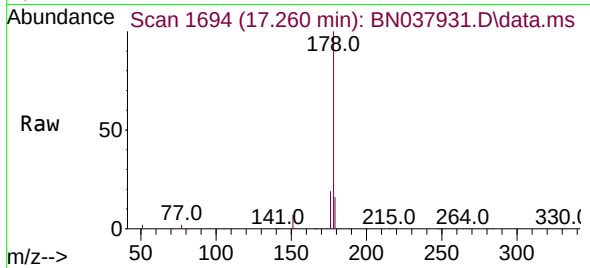




#25
Phenanthrene
Concen: 0.365 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

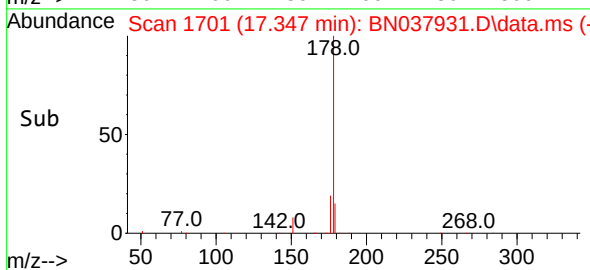
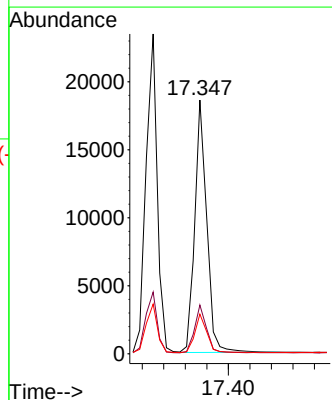
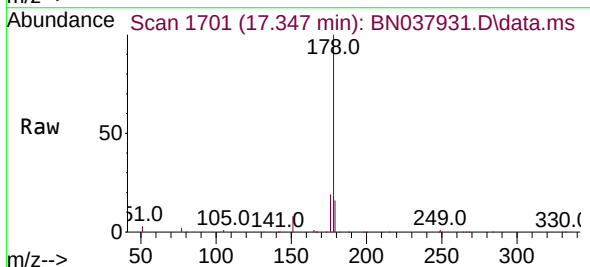
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

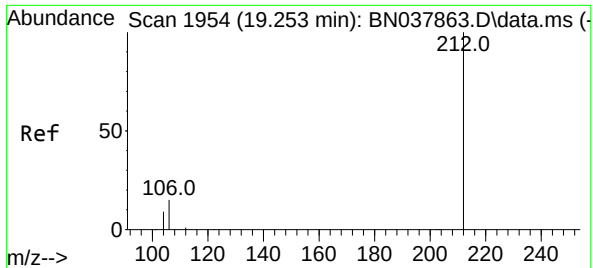
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.4	12.3	18.5



#26
Anthracene
Concen: 0.352 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.4
179	15.4	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.339 ng

RT: 19.248 min Scan# 1954

Delta R.T. -0.005 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

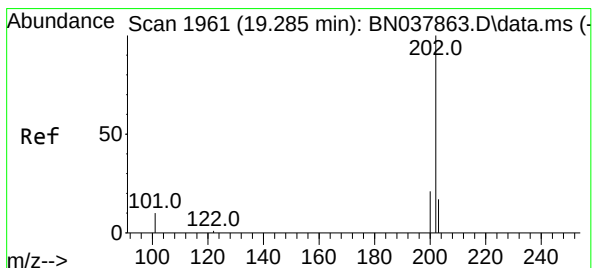
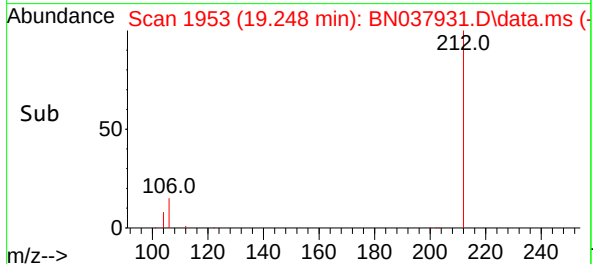
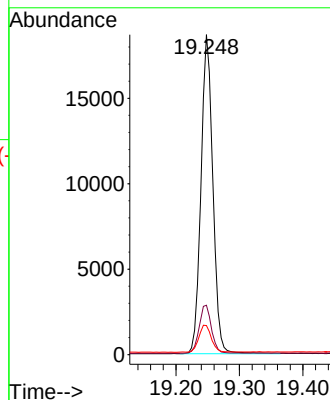
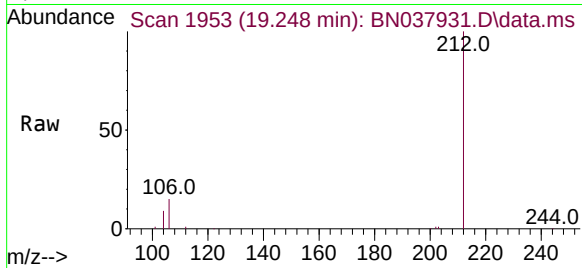
Tgt Ion:212 Resp: 24269

Ion Ratio Lower Upper

212 100

106 15.5 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.341 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

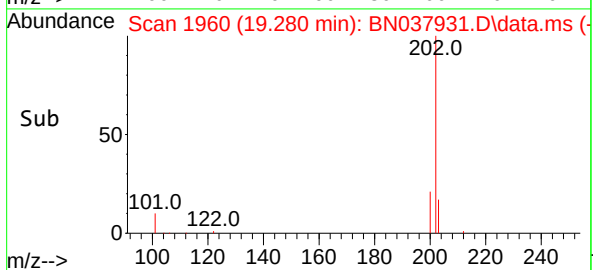
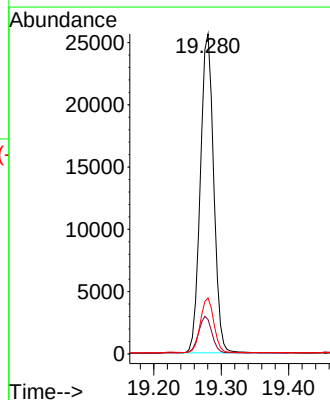
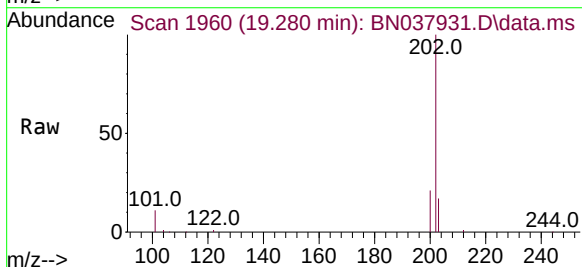
Tgt Ion:202 Resp: 35180

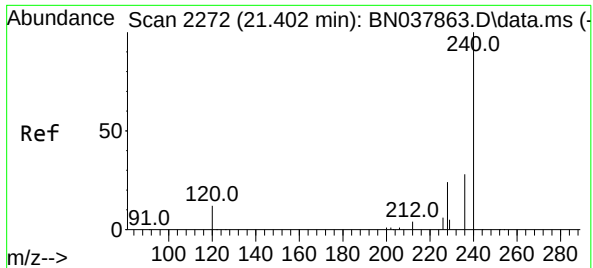
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4

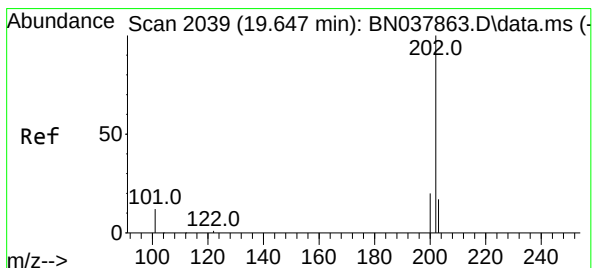
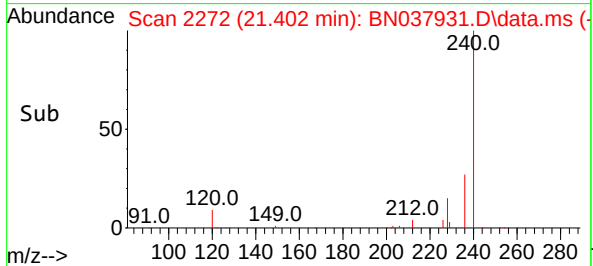
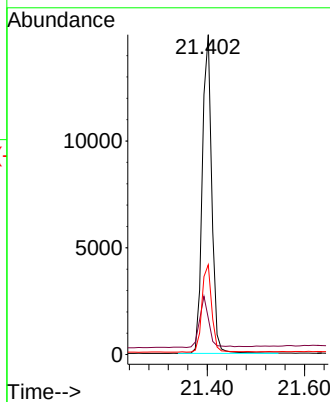
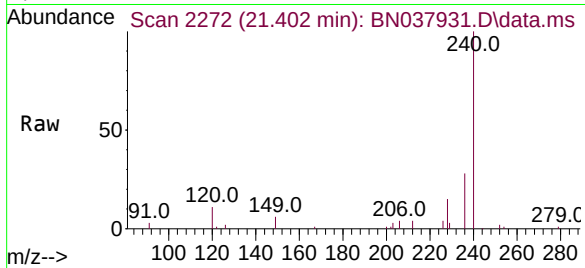




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

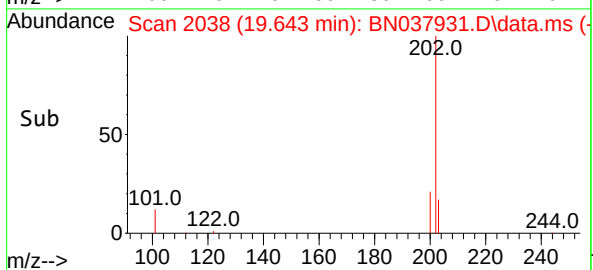
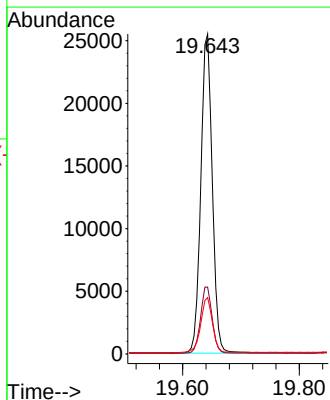
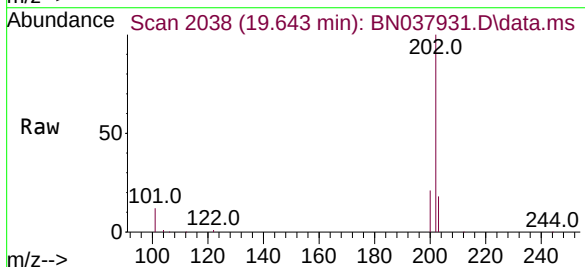
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

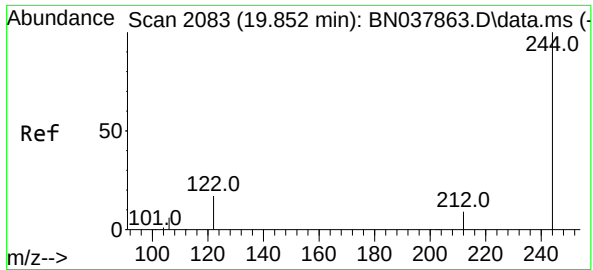
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.4	11.4	17.2#
236	28.1	23.0	34.6



#30
Pyrene
Concen: 0.435 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4

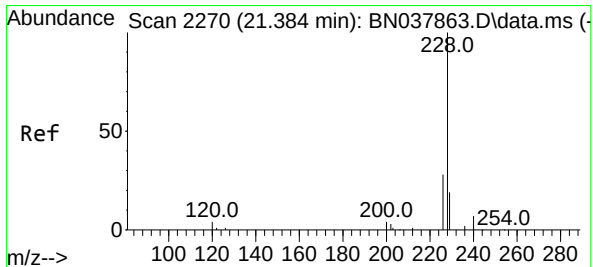
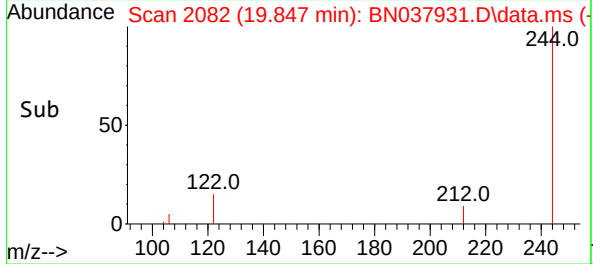
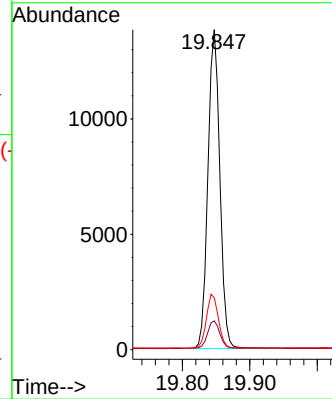
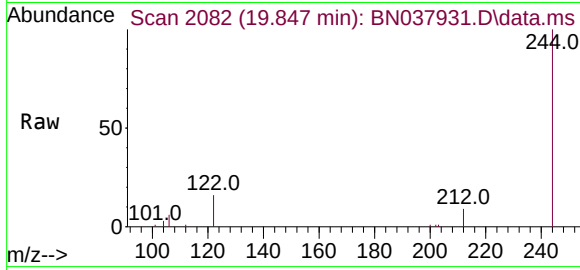




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

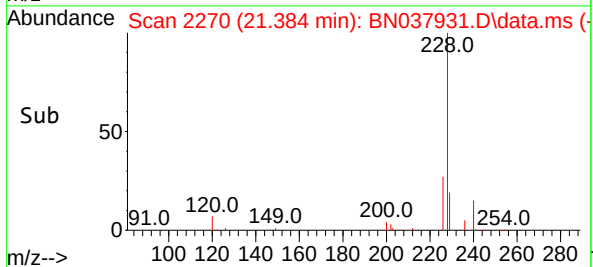
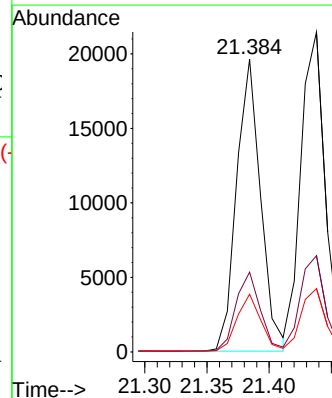
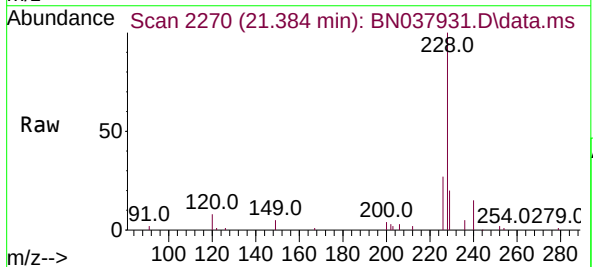
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

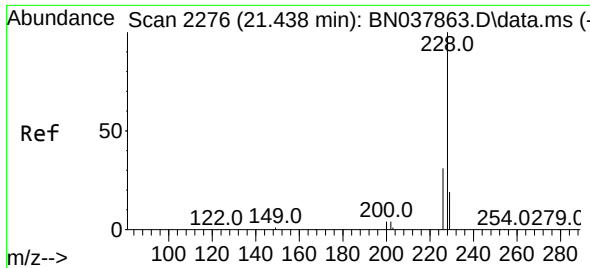
Tgt Ion:244	Resp:	16933
Ion Ratio	Lower	Upper
244	100	
212	9.0	7.6 11.4
122	16.3	13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:228	Resp:	26386
Ion Ratio	Lower	Upper
228	100	
226	27.2	22.6 33.8
229	19.7	15.6 23.4





#33

Chrysene

Concen: 0.385 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

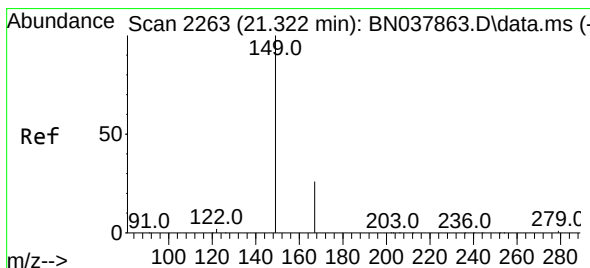
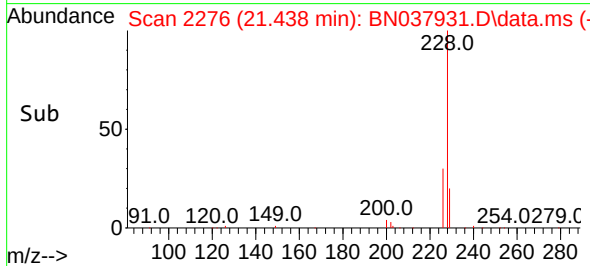
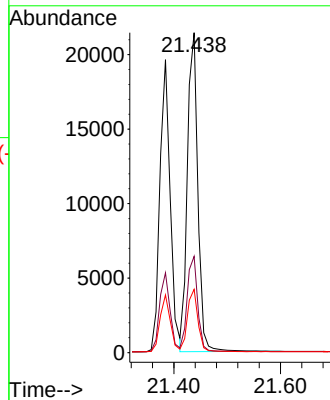
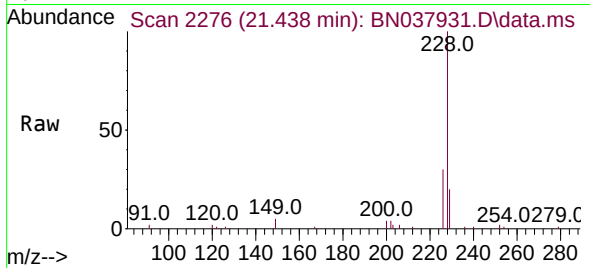
Tgt Ion:228 Resp: 29326

Ion Ratio Lower Upper

228 100

226 30.1 24.6 37.0

229 19.8 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.319 ng

RT: 21.322 min Scan# 2263

Delta R.T. -0.000 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

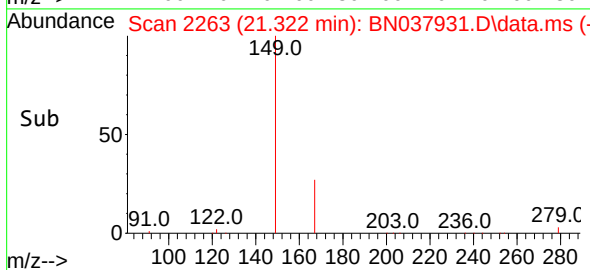
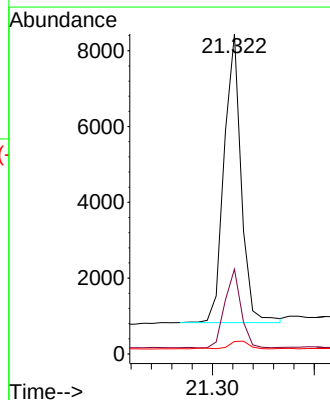
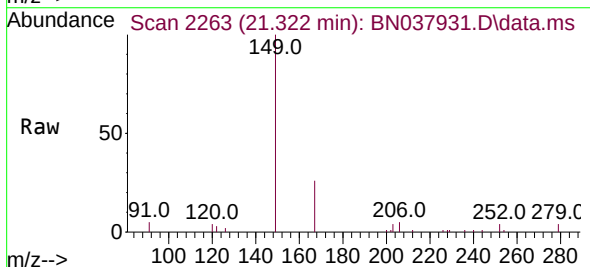
Tgt Ion:149 Resp: 8884

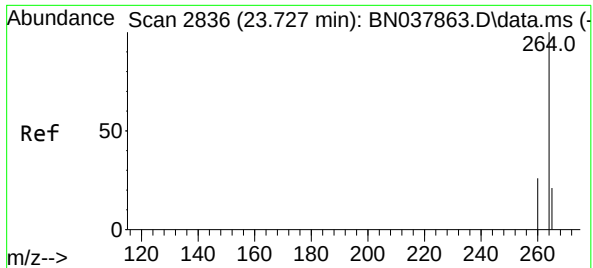
Ion Ratio Lower Upper

149 100

167 25.7 20.4 30.6

279 3.2 2.4 3.6

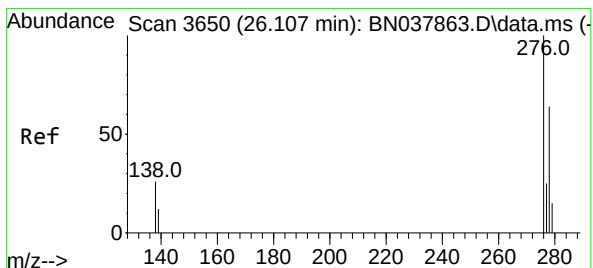
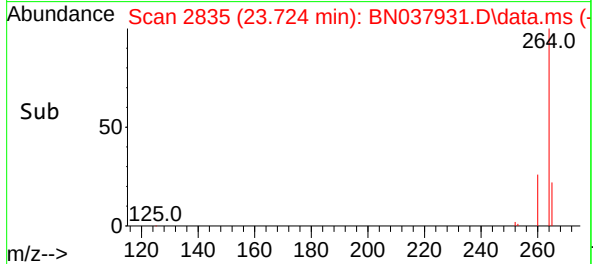
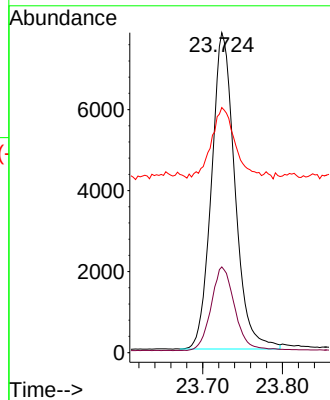
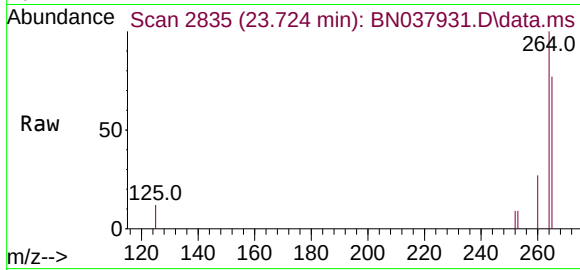




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.724 min Scan# 2835
Delta R.T. -0.003 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

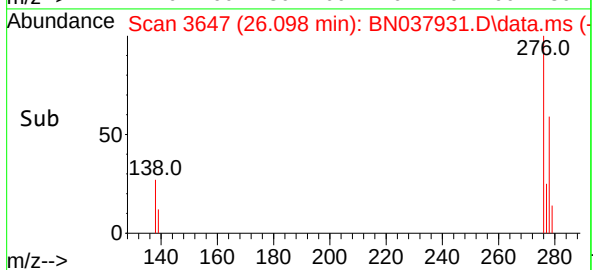
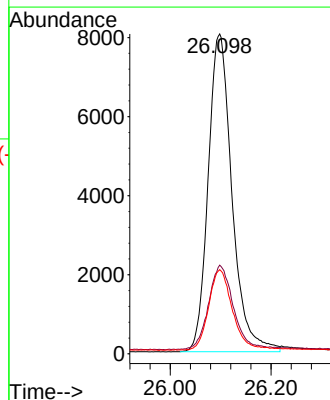
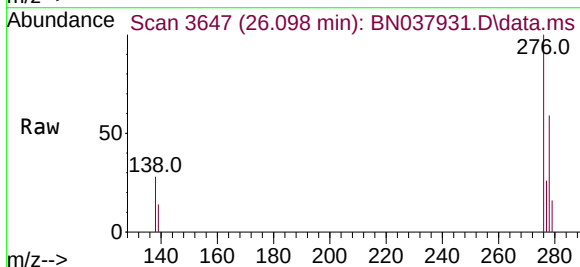
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

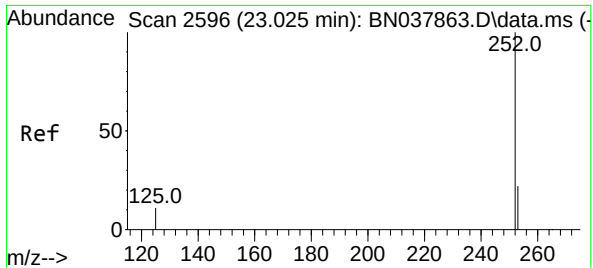
Tgt Ion:	264	Resp:	15946
Ion Ratio	Lower	Upper	
264	100		
260	26.8	21.5	32.3
265	76.6	53.8	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.362 ng
RT: 26.098 min Scan# 3647
Delta R.T. -0.009 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:	276	Resp:	26409
Ion Ratio	Lower	Upper	
276	100		
138	27.6	21.4	32.0
277	25.2	20.3	30.5

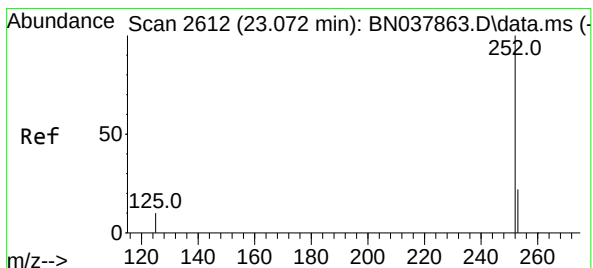
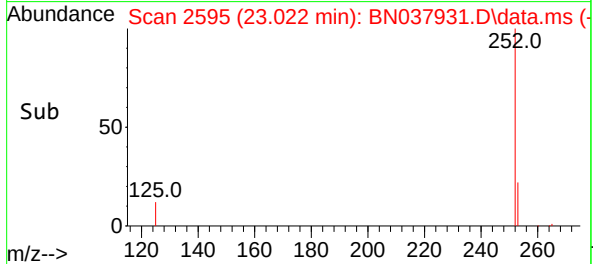
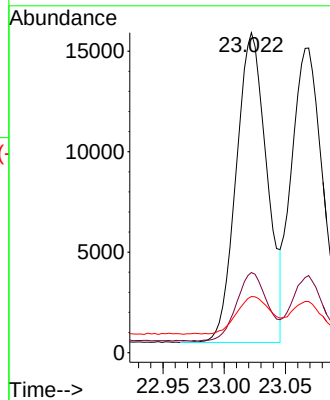
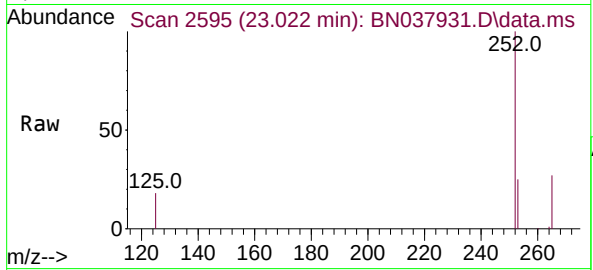




#37
Benzo(b)fluoranthene
Concen: 0.392 ng
RT: 23.022 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

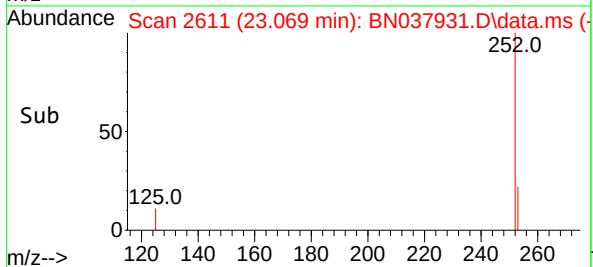
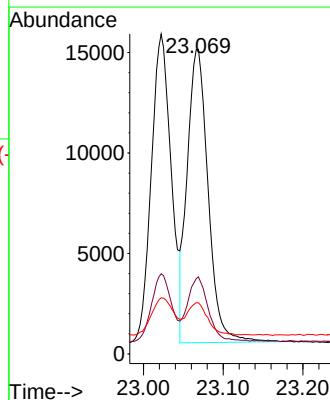
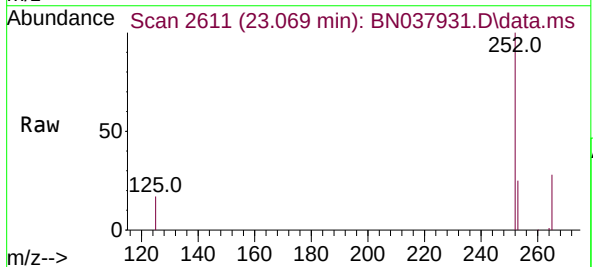
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

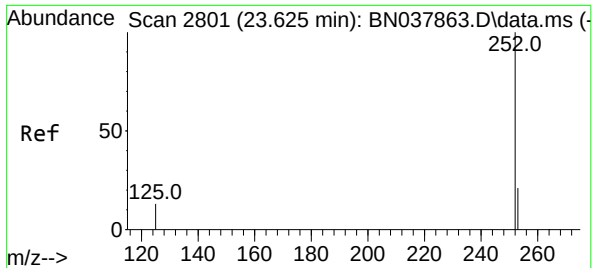
Tgt Ion:252 Resp: 26939
Ion Ratio Lower Upper
252 100
253 25.0 19.4 29.0
125 17.5 13.0 19.4



#38
Benzo(k)fluoranthene
Concen: 0.384 ng
RT: 23.069 min Scan# 2611
Delta R.T. -0.003 min
Lab File: BN037931.D
Acq: 29 Sep 2025 11:30

Tgt Ion:252 Resp: 26600
Ion Ratio Lower Upper
252 100
253 25.3 19.5 29.3
125 16.8 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.622 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

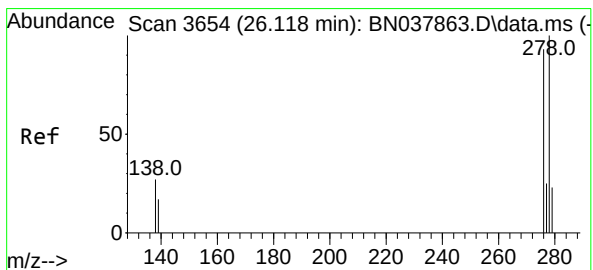
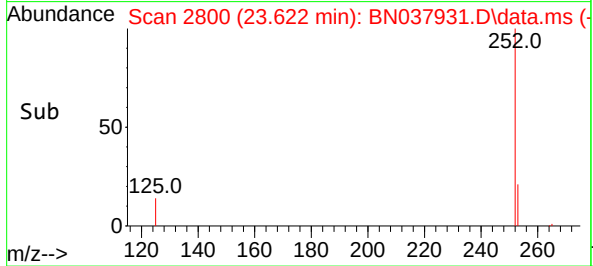
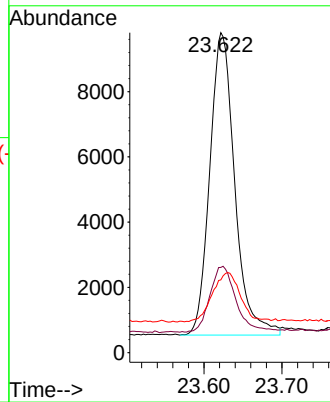
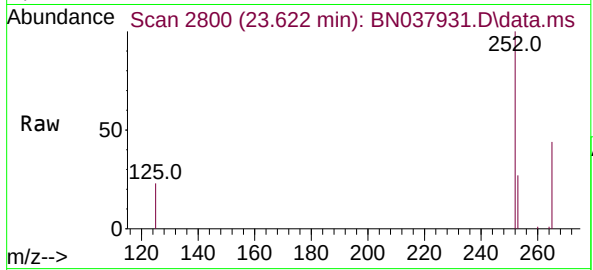
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	20657
Ion Ratio	Lower	Upper	
252	100		
253	26.6	20.6	30.8
125	22.7	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

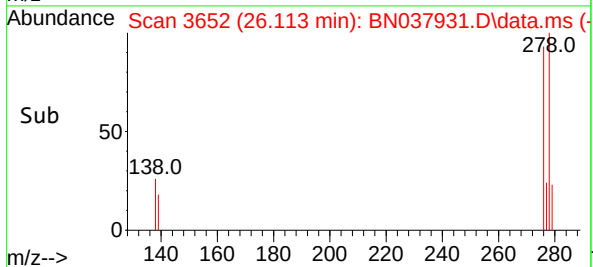
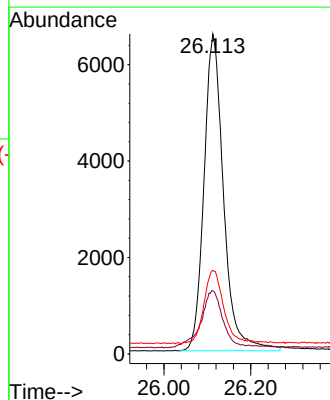
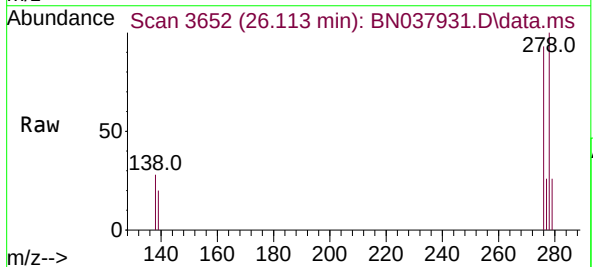
RT: 26.113 min Scan# 3652

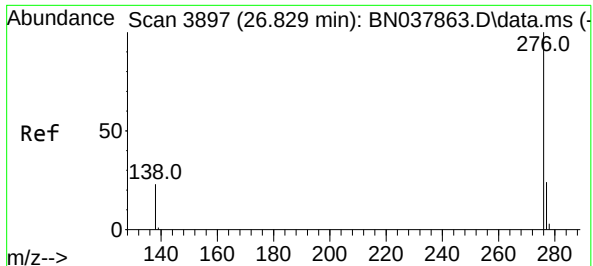
Delta R.T. -0.006 min

Lab File: BN037931.D

Acq: 29 Sep 2025 11:30

Tgt Ion:	278	Resp:	20582
Ion Ratio	Lower	Upper	
278	100		
139	19.7	15.4	23.2
279	26.1	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng

RT: 26.823 min Scan# 38

Delta R.T. -0.006 min

Lab File: BN037931.D

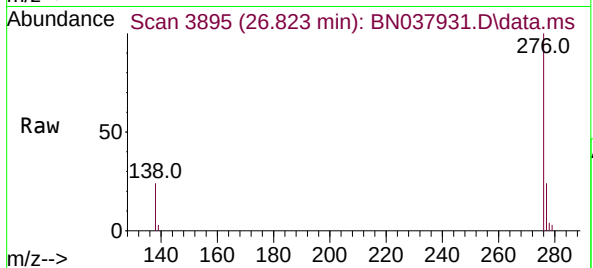
Acq: 29 Sep 2025 11:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



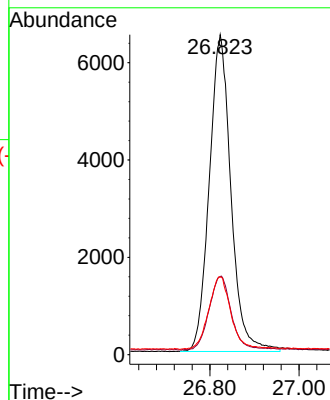
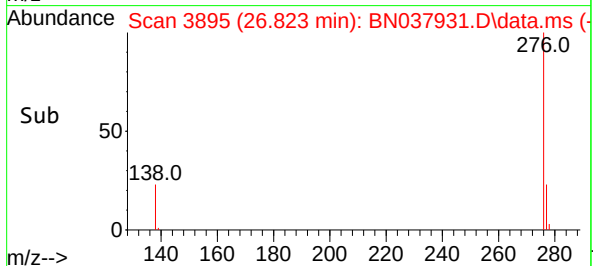
Tgt Ion:276 Resp: 21987

Ion Ratio Lower Upper

276 100

277 24.4 20.2 30.4

138 24.2 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037931.D
Acq On : 29 Sep 2025 11:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 29 11:59:53 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	174#	0.00
2	1,4-Dioxane	0.406	0.433	-6.7	184#	0.00
3	n-Nitrosodimethylamine	0.540	0.460	14.8	155#	0.00
4 S	2-Fluorophenol	0.913	0.894	2.1	181#	0.00
5 S	Phenol-d6	1.199	1.159	3.3	180#	0.00
6	bis(2-Chloroethyl)ether	1.113	1.073	3.6	172#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	181#	-0.01
8 S	Nitrobenzene-d5	0.305	0.277	9.2	174#	-0.01
9	Naphthalene	1.102	1.051	4.6	182#	0.00
10	Hexachlorobutadiene	0.188	0.178	5.3	178#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.556	0.515	7.4	188#	0.00
12	2-Methylnaphthalene	0.720	0.669	7.1	182#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	183#	0.00
14 S	2,4,6-Tribromophenol	0.152	0.134	11.8	181#	-0.01
15 S	2-Fluorobiphenyl	1.638	1.554	5.1	182#	0.00
16	Acenaphthylene	1.816	1.669	8.1	184#	-0.01
17	Acenaphthene	1.294	1.175	9.2	180#	0.00
18	Fluorene	1.565	1.362	13.0	172#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	179#	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.040	29.8#	162#	-0.01
21	4-Bromophenyl-phenylether	0.261	0.244	6.5	178#	0.00
22	Hexachlorobenzene	0.316	0.295	6.6	173#	-0.01
23	Atrazine	0.199	0.154	22.6	160#	-0.01
24	Pentachlorophenol	0.108	0.136	-25.9#	265#	0.00
25	Phenanthrene	1.316	1.202	8.7	174#	0.00
26	Anthracene	1.142	1.005	12.0	175#	-0.01
27 SURR	Fluoranthene-d10	1.006	0.853	15.2	172#	0.00
28	Fluoranthene	1.450	1.236	14.8	168#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	148	0.00
30	Pyrene	1.579	1.717	-8.7	168#	0.00
31 S	Terphenyl-d14	0.797	0.840	-5.4	166#	0.00
32	Benzo(a)anthracene	1.398	1.309	6.4	150#	0.00
33	Chrysene	1.512	1.454	3.8	148	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.441	20.3	134	0.00
35 I	Perylene-d12	1.000	1.000	0.0	127	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.656	9.4	127	0.00
37	Benzo(b)fluoranthene	1.725	1.689	2.1	131	0.00
38	Benzo(k)fluoranthene	1.736	1.668	3.9	132	0.00
39 C	Benzo(a)pyrene	1.364	1.295	5.1	133	0.00
40	Dibenzo(a,h)anthracene	1.427	1.291	9.5	126	0.00
41	Benzo(g,h,i)perylene	1.499	1.379	8.0	125	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
 Data File : BN037931.D
 Acq On : 29 Sep 2025 11:30
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 29 11:59:53 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	174	0.00
2	1,4-Dioxane	0.400	0.427	-6.7	184	0.00
3	n-Nitrosodimethylamine	0.400	0.341	14.8	155	0.00
4 S	2-Fluorophenol	0.400	0.392	2.0	181	0.00
5 S	Phenol-d6	0.400	0.387	3.3	180	0.00
6	bis(2-Chloroethyl)ether	0.400	0.385	3.8	172	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	181	-0.01
8 S	Nitrobenzene-d5	0.400	0.363	9.3	174	-0.01
9	Naphthalene	0.400	0.381	4.8	182	0.00
10	Hexachlorobutadiene	0.400	0.379	5.3	178	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.371	7.3	188	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	182	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	183	0.00
14 S	2,4,6-Tribromophenol	0.400	0.354	11.5	181	-0.01
15 S	2-Fluorobiphenyl	0.400	0.380	5.0	182	0.00
16	Acenaphthylene	0.400	0.368	8.0	184	-0.01
17	Acenaphthene	0.400	0.363	9.3	180	0.00
18	Fluorene	0.400	0.348	13.0	172	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	179	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.375	6.3	162	-0.01
21	4-Bromophenyl-phenylether	0.400	0.374	6.5	178	0.00
22	Hexachlorobenzene	0.400	0.374	6.5	173	-0.01
23	Atrazine	0.400	0.310	22.5	160	-0.01
24	Pentachlorophenol	0.400	0.503	-25.7#	265	0.00
25	Phenanthrene	0.400	0.365	8.8	174	0.00
26	Anthracene	0.400	0.352	12.0	175	-0.01
27 SURR	Fluoranthene-d10	0.400	0.339	15.3	172	0.00
28	Fluoranthene	0.400	0.341	14.8	168	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	148	0.00
30	Pyrene	0.400	0.435	-8.7	168	0.00
31 S	Terphenyl-d14	0.400	0.422	-5.5	166	0.00
32	Benzo(a)anthracene	0.400	0.374	6.5	150	0.00
33	Chrysene	0.400	0.385	3.8	148	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.319	20.3	134	0.00
35 I	Perylene-d12	0.400	0.400	0.0	127	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.362	9.5	127	0.00
37	Benzo(b)fluoranthene	0.400	0.392	2.0	131	0.00
38	Benzo(k)fluoranthene	0.400	0.384	4.0	132	0.00
39 C	Benzo(a)pyrene	0.400	0.380	5.0	133	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	126	0.00
41	Benzo(g,h,i)perylene	0.400	0.368	8.0	125	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.: Q3165
 Instrument ID: BNA_N Calibration Date/Time: 09/29/2025 18:46
 Lab File ID: BN037941.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	0.490		-11.9	50.0
Fluoranthene-d10	1.006	0.914		-9.1	50.0
2-Fluorophenol	0.913	0.907		-0.7	50.0
Phenol-d6	1.199	1.110		-7.4	50.0
Nitrobenzene-d5	0.305	0.282		-7.5	50.0
2-Fluorobiphenyl	1.638	1.513		-7.6	50.0
2,4,6-Tribromophenol	0.152	0.142		-6.6	50.0
Terphenyl-d14	0.797	0.716		-10.2	50.0
1,4-Dioxane	0.406	0.382		-5.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
 Data File : BN037941.D
 Acq On : 29 Sep 2025 18:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 29 19:10:53 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

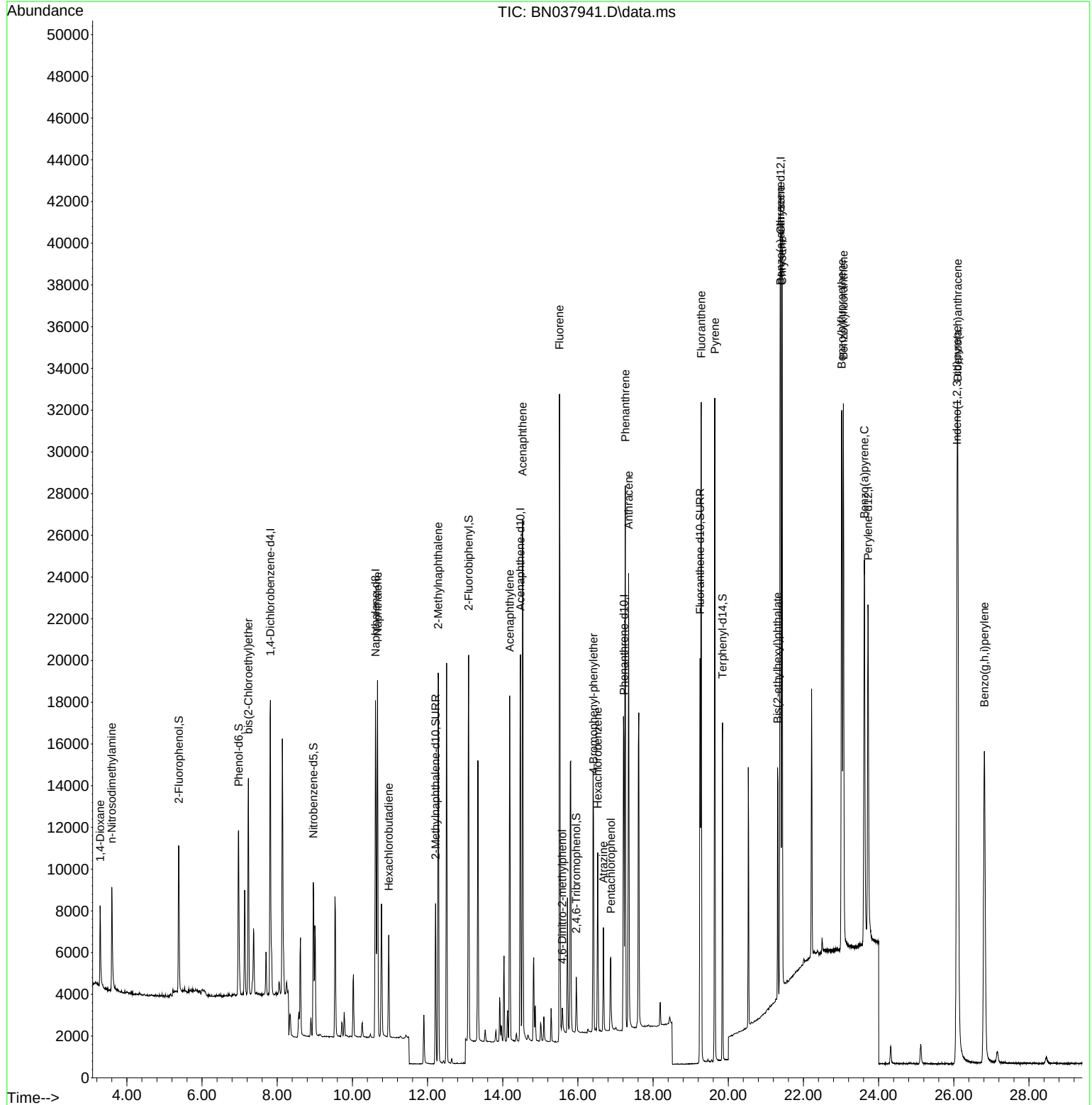
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7018	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	21039	0.400	ng	-0.01
13) Acenaphthene-d10	14.473	164	10932	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	22475	0.400	ng	# 0.00
29) Chrysene-d12	21.393	240	21191	0.400	ng	# 0.00
35) Perylene-d12	23.718	264	22679	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	6365	0.397	ng	0.00
5) Phenol-d6	6.973	99	7788	0.370	ng	0.00
8) Nitrobenzene-d5	8.961	82	5923	0.369	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	10319	0.353	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	1548	0.373	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	16535	0.369	ng	0.00
27) Fluoranthene-d10	19.248	212	20532	0.363	ng	0.00
31) Terphenyl-d14	19.847	244	15173	0.359	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.290	88	2683	0.377	ng	94
3) n-Nitrosodimethylamine	3.600	42	3409	0.360	ng	# 91
6) bis(2-Chloroethyl)ether	7.233	93	7470	0.382	ng	100
9) Naphthalene	10.669	128	21956	0.379	ng	99
10) Hexachlorobutadiene	10.968	225	3803	0.385	ng	# 99
12) 2-Methylnaphthalene	12.283	142	13524	0.357	ng	99
16) Acenaphthylene	14.184	152	18342	0.370	ng	99
17) Acenaphthene	14.527	154	12782	0.361	ng	99
18) Fluorene	15.510	166	15023	0.351	ng	98
20) 4,6-Dinitro-2-methylph...	15.585	198	913	0.384	ng	# 50
21) 4-Bromophenyl-phenylether	16.416	248	5227	0.357	ng	# 84
22) Hexachlorobenzene	16.528	284	6526	0.368	ng	99
23) Atrazine	16.677	200	3730	0.334	ng	# 92
24) Pentachlorophenol	16.875	266	2216	0.364	ng	95
25) Phenanthrene	17.260	178	26836	0.363	ng	100
26) Anthracene	17.347	178	22634	0.353	ng	100
28) Fluoranthene	19.280	202	29296	0.360	ng	100
30) Pyrene	19.643	202	29327	0.351	ng	100
32) Benzo(a)anthracene	21.384	228	27101	0.366	ng	98
33) Chrysene	21.429	228	29366	0.367	ng	100
34) Bis(2-ethylhexyl)phtha...	21.313	149	10848	0.370	ng	99
36) Indeno(1,2,3-cd)pyrene	26.086	276	41916	0.404	ng	98
37) Benzo(b)fluoranthene	23.016	252	33935	0.347	ng	99
38) Benzo(k)fluoranthene	23.063	252	34641	0.352	ng	99
39) Benzo(a)pyrene	23.619	252	28276	0.366	ng	97
40) Dibenzo(a,h)anthracene	26.104	278	32843	0.406	ng	99
41) Benzo(g,h,i)perylene	26.814	276	32940	0.387	ng	99

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

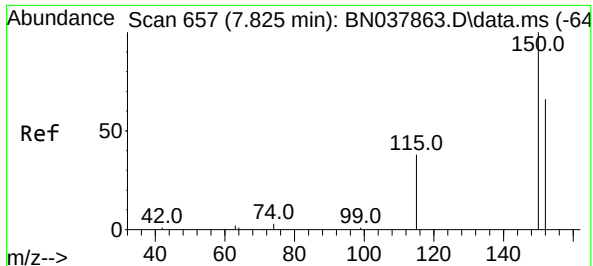
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Acq On : 29 Sep 2025 18:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 29 19:10:53 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

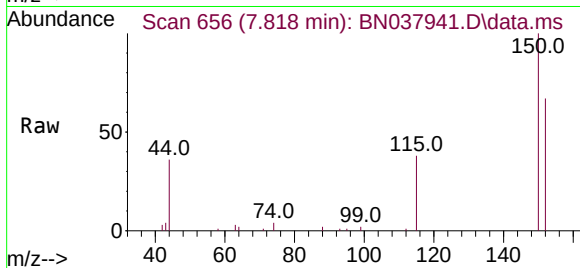


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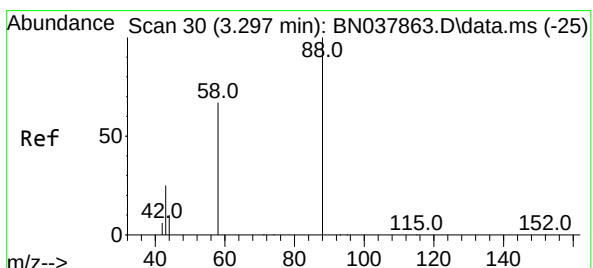
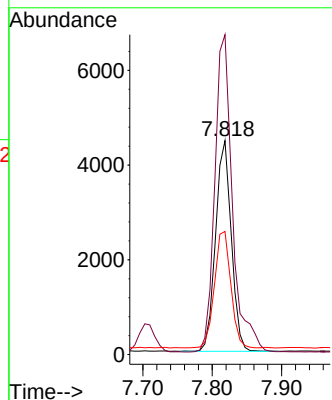
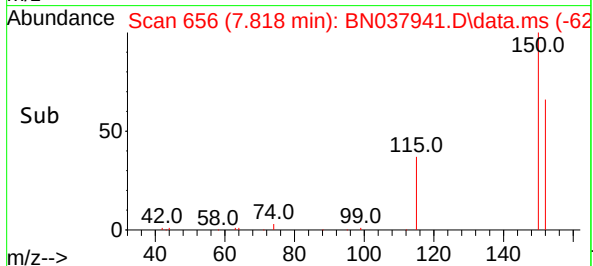


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.818 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037941.D
 Acq: 29 Sep 2025 18:46

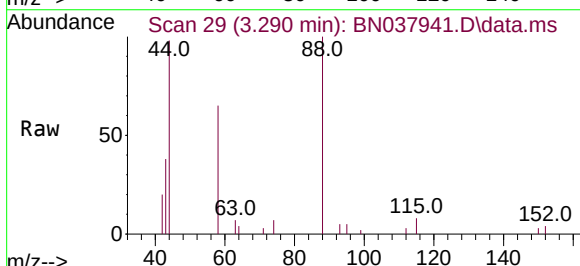
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



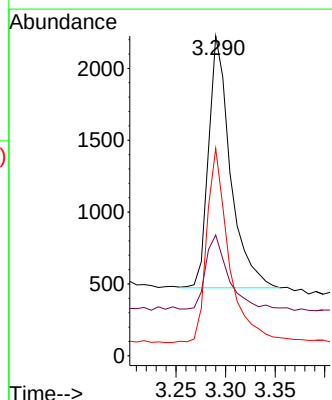
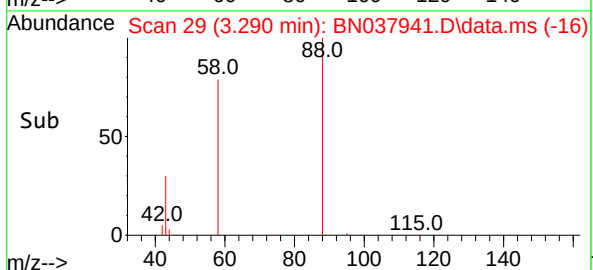
Tgt Ion:152 Resp: 7018
 Ion Ratio Lower Upper
 152 100
 150 149.5 121.0 181.4
 115 57.5 47.4 71.0

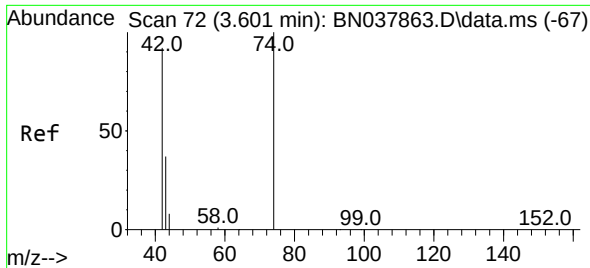


#2
 1,4-Dioxane
 Concen: 0.377 ng
 RT: 3.290 min Scan# 29
 Delta R.T. -0.007 min
 Lab File: BN037941.D
 Acq: 29 Sep 2025 18:46



Tgt Ion: 88 Resp: 2683
 Ion Ratio Lower Upper
 88 100
 43 30.6 26.6 39.8
 58 78.9 58.9 88.3

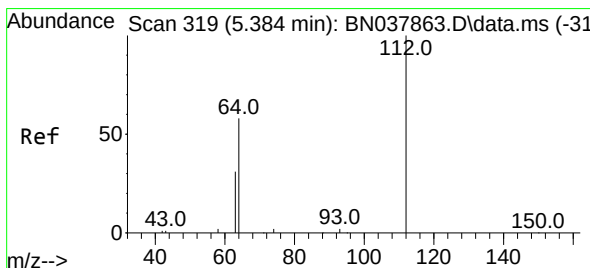
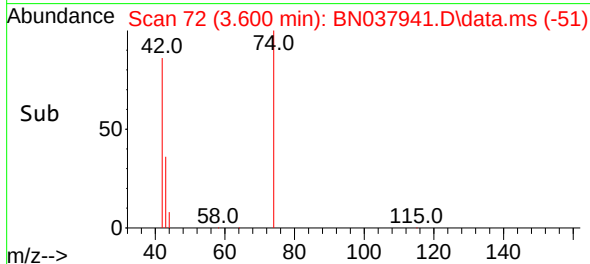
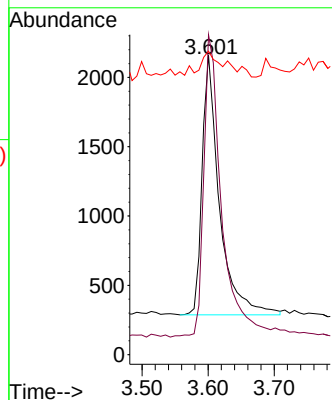
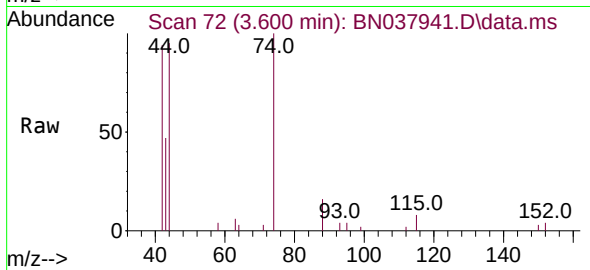




#3
n-Nitrosodimethylamine
Concen: 0.360 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

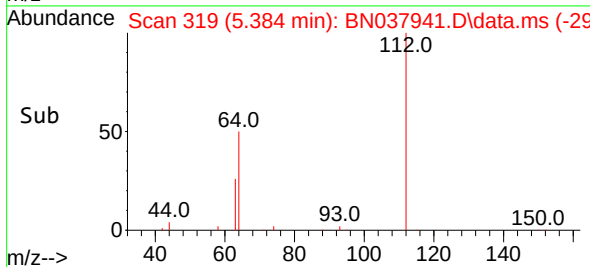
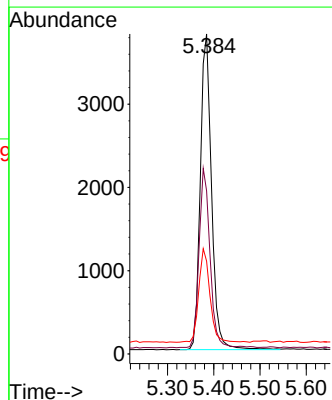
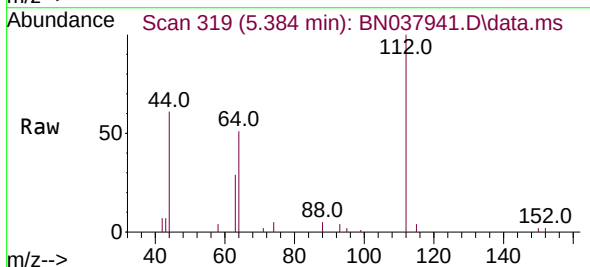
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

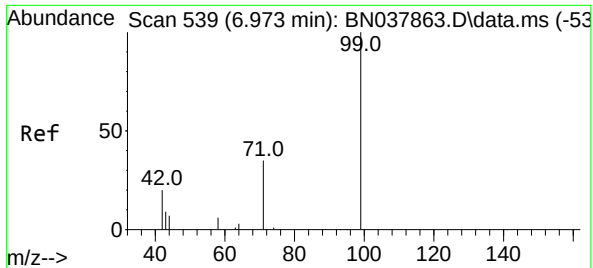
Tgt Ion: 42 Resp: 3409
Ion Ratio Lower Upper
42 100
74 122.8 93.4 140.0
44 15.1 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion: 112 Resp: 6365
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 29.6 24.9 37.3

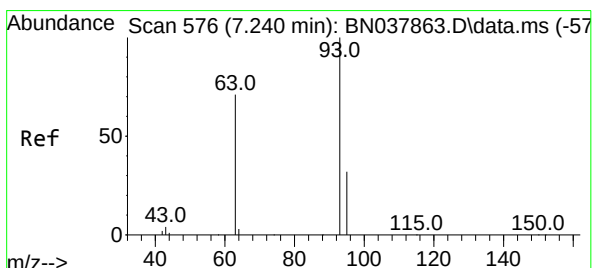
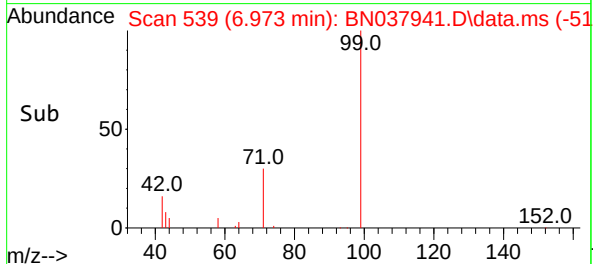
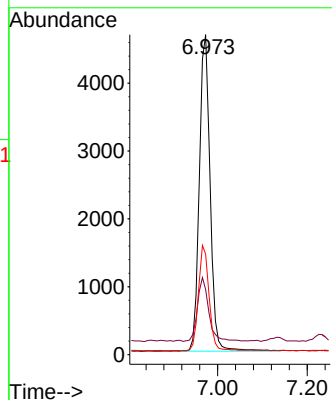
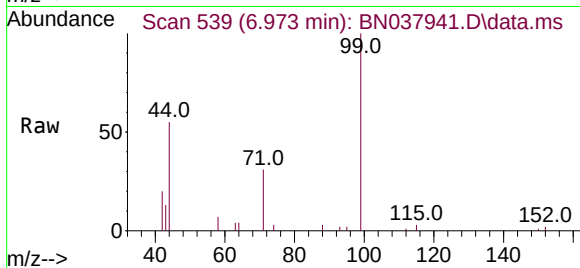




#5
Phenol-d6
Concen: 0.370 ng
RT: 6.973 min Scan# 531
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

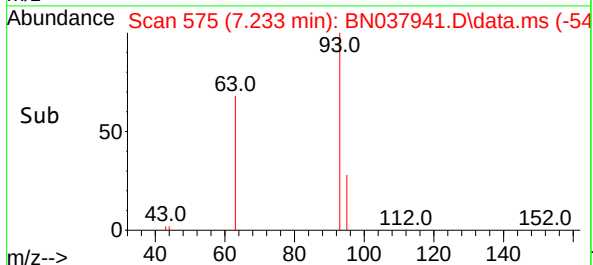
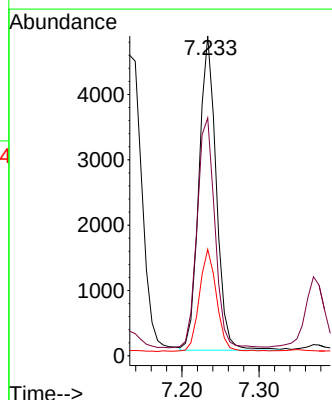
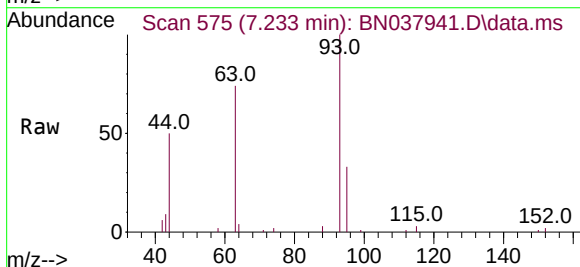
Instrument :
BNA_N
ClientSampleId :
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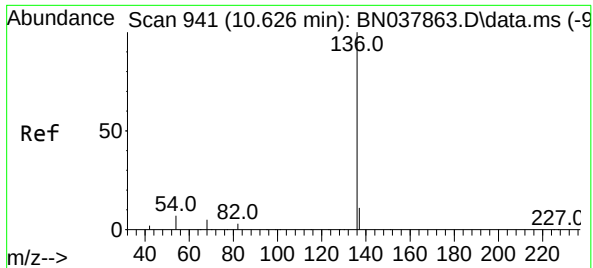
Tgt Ion:	99	Resp:	7788
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	32.7	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.233 min Scan# 575
Delta R.T. -0.007 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:	93	Resp:	7470
Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.1	90.1
95	32.4	25.4	38.2

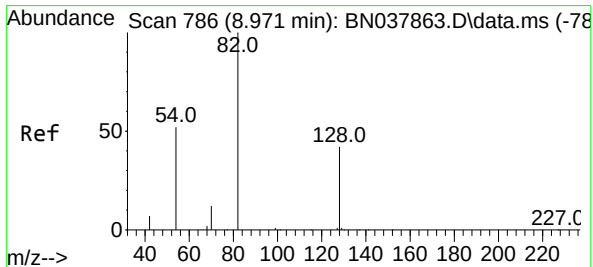
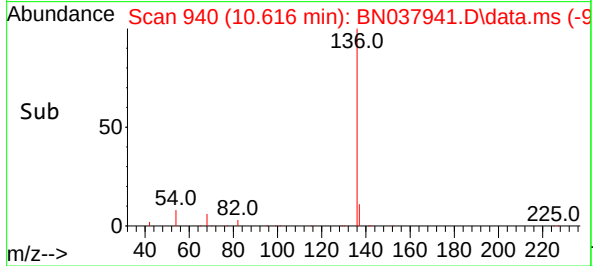
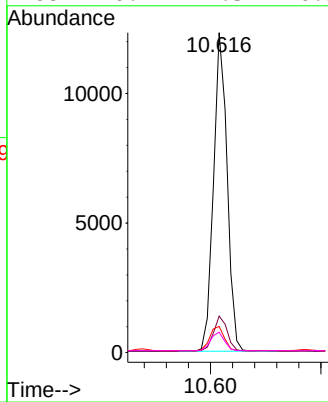
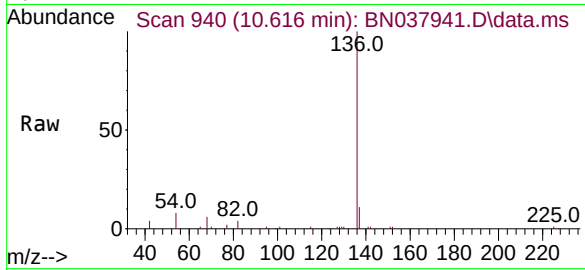




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

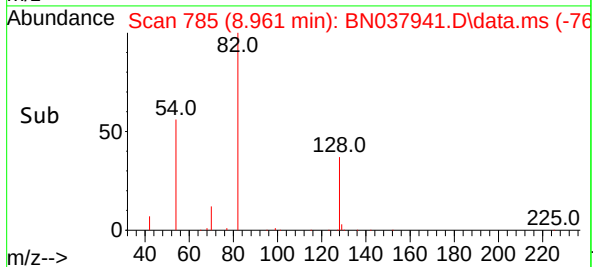
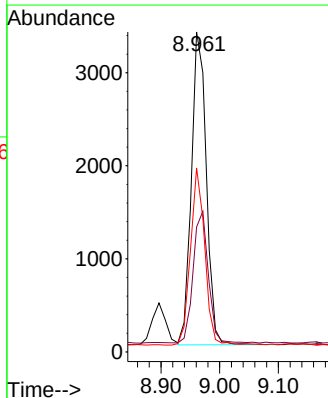
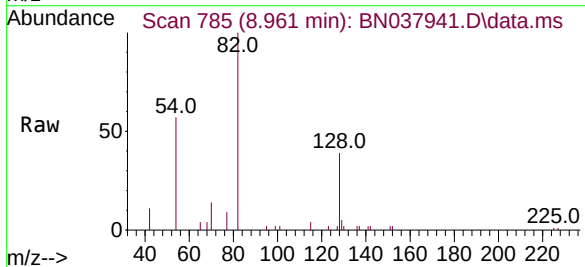
Instrument :
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ClientSampleId :
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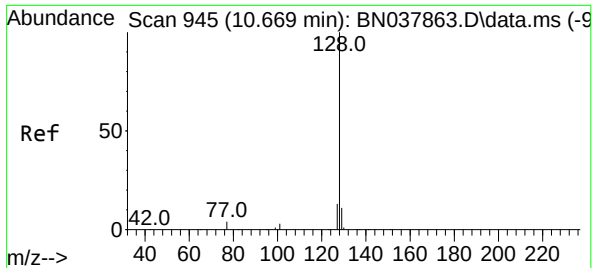
Tgt Ion:	136	Resp:	21039
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.0	13.4
54	8.2	5.8	8.8
68	6.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:	82	Resp:	5923
Ion Ratio	Lower	Upper	
82	100		
128	39.1	34.8	52.2
54	57.5	42.2	63.2

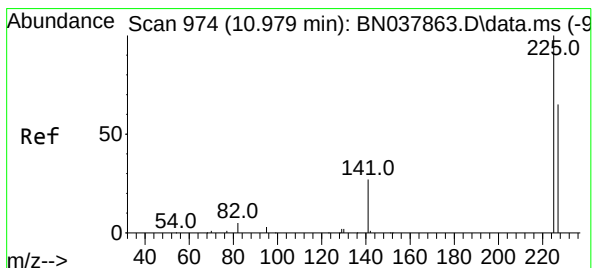
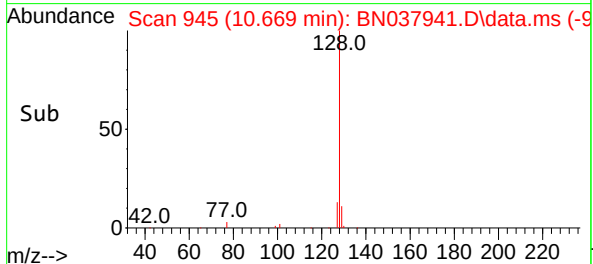
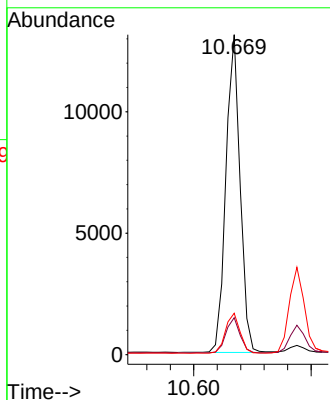
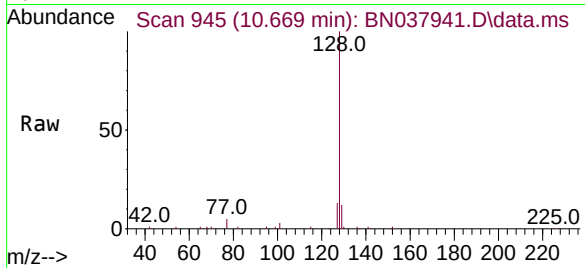




#9
Naphthalene
Concen: 0.379 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

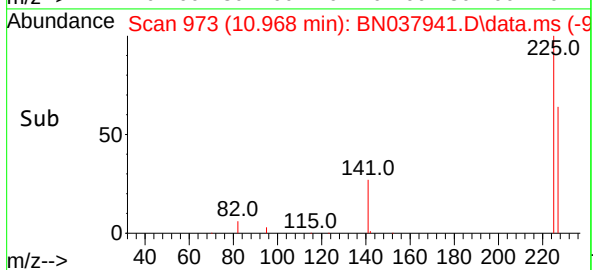
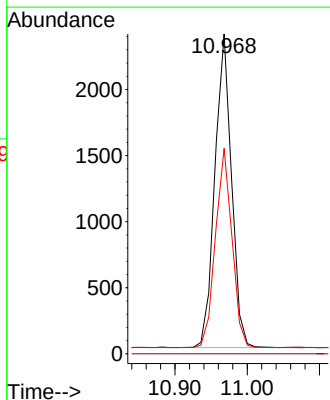
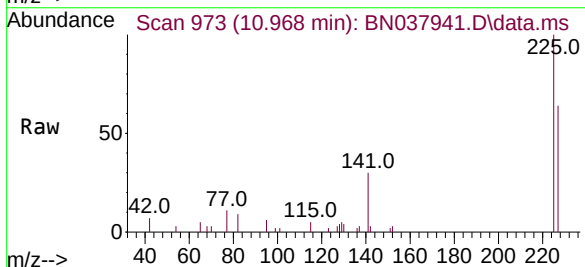
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ClientSampleId :
SSTDCCC0.4EC

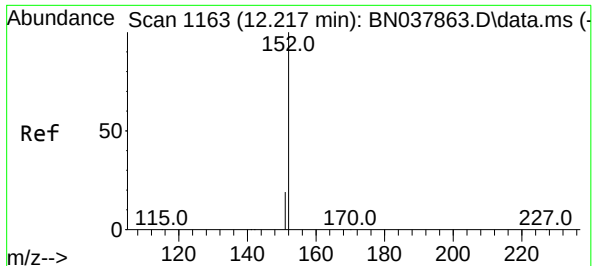
Tgt Ion:	128	Resp:	21956
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	12.9	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:	225	Resp:	3803
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2

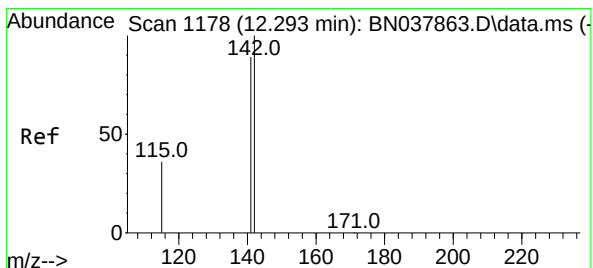
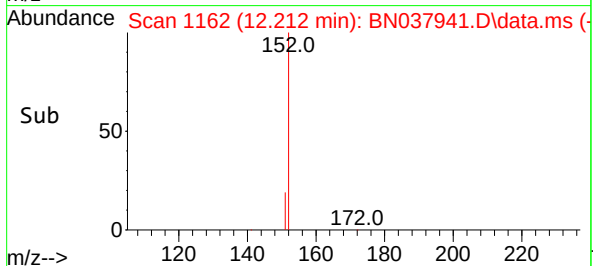
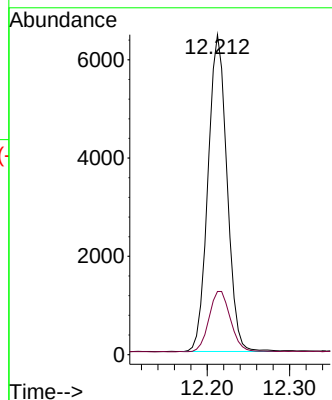
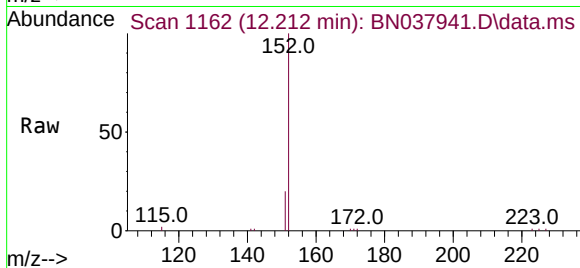




#11
2-Methylnaphthalene-d10
Concen: 0.353 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

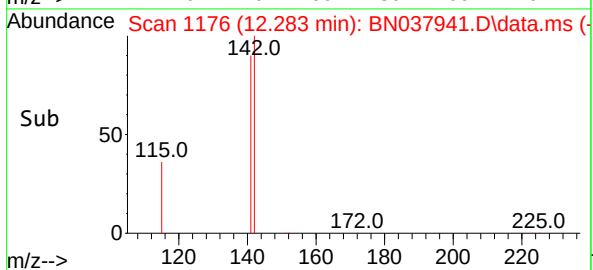
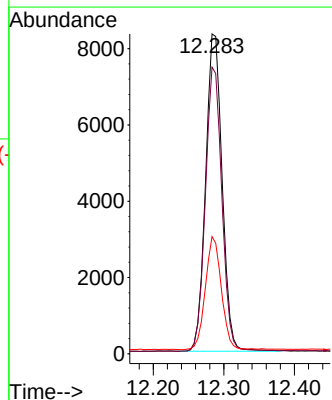
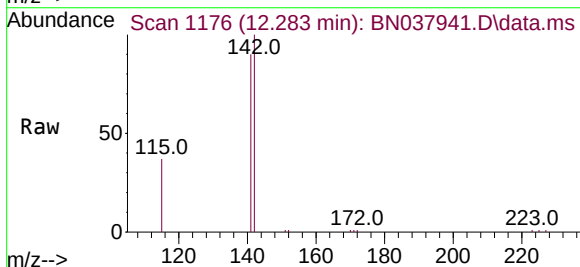
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

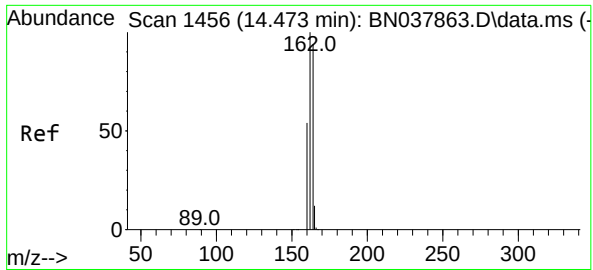
Tgt Ion:152 Resp: 10319
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.283 min Scan# 1176
Delta R.T. -0.010 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:142 Resp: 13524
Ion Ratio Lower Upper
142 100
141 89.6 71.2 106.8
115 36.6 29.7 44.5

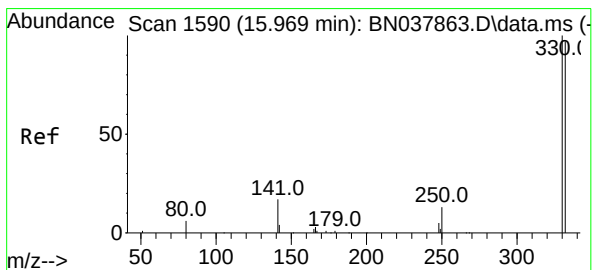
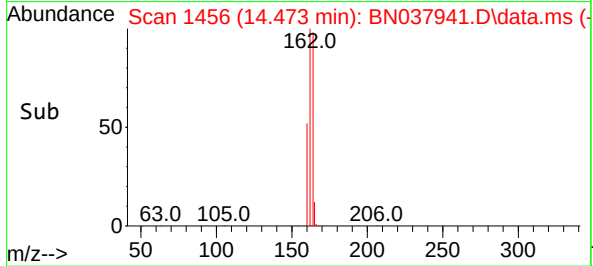
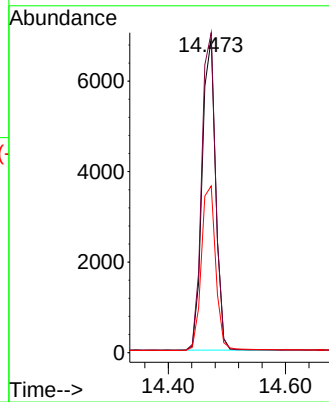
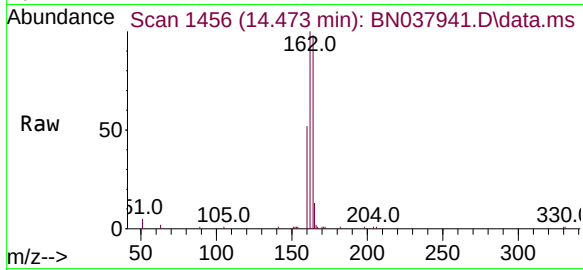




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

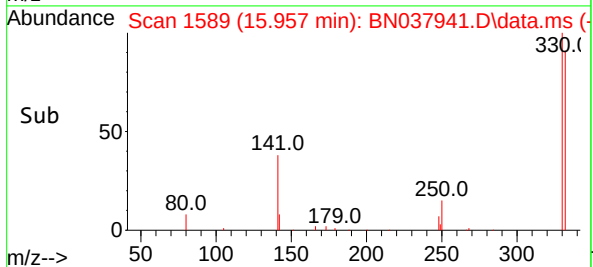
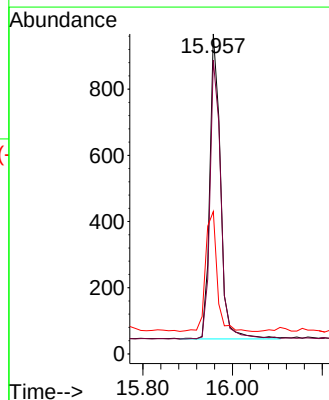
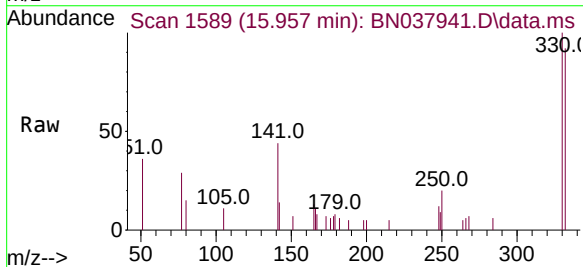
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

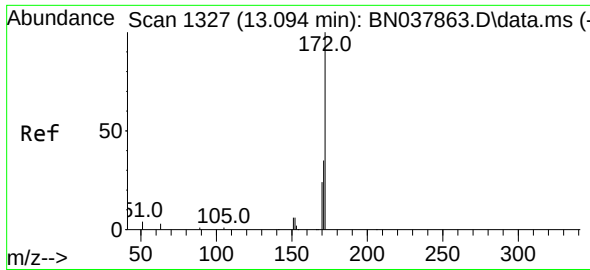
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	84.8	127.2
160	53.0	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.6	77.2	115.8
141	41.6	37.2	55.8

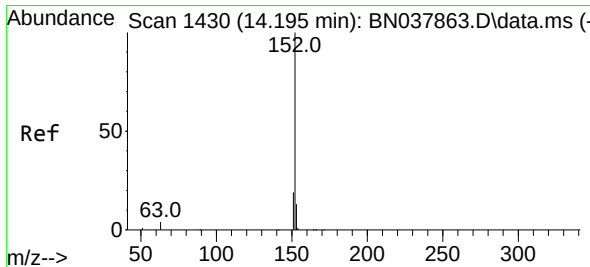
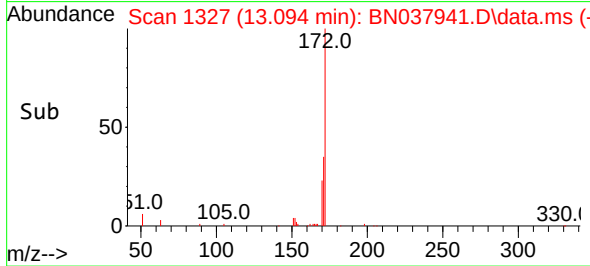
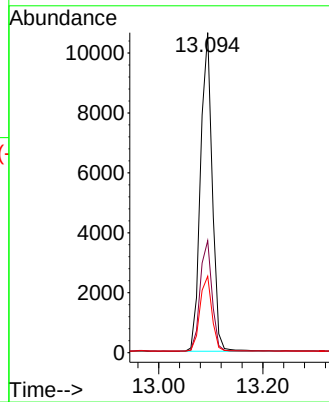
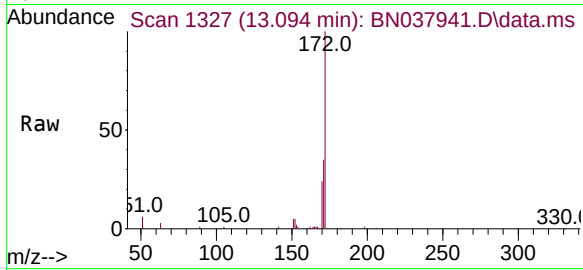




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

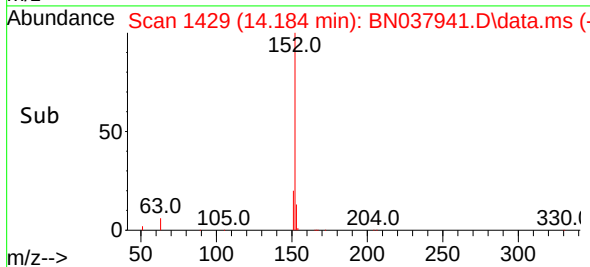
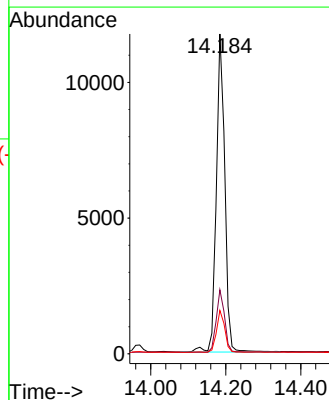
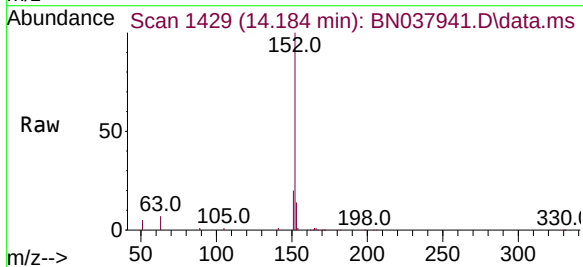
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

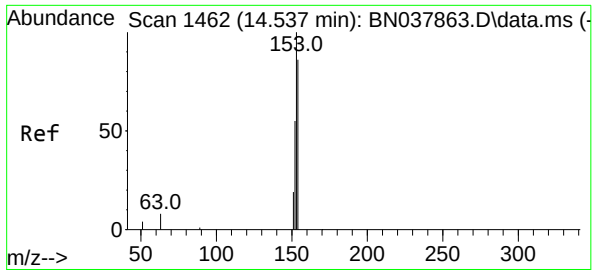
Tgt Ion:	172	Resp:	16535
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.6	43.0
170	23.9	19.7	29.5



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.184 min Scan# 1429
Delta R.T. -0.011 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:	152	Resp:	18342
Ion Ratio	Lower	Upper	
152	100		
151	19.2	15.8	23.8
153	12.8	10.5	15.7

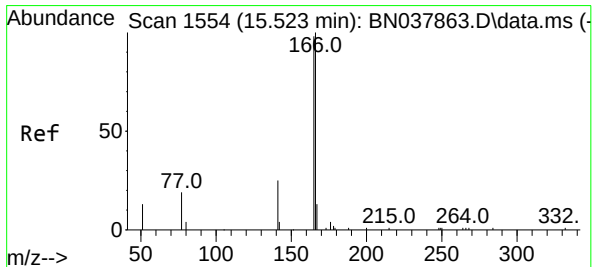
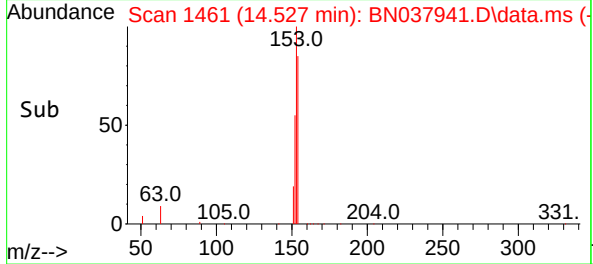
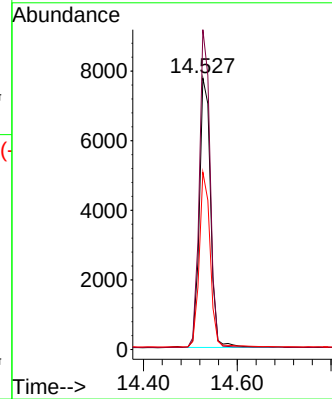
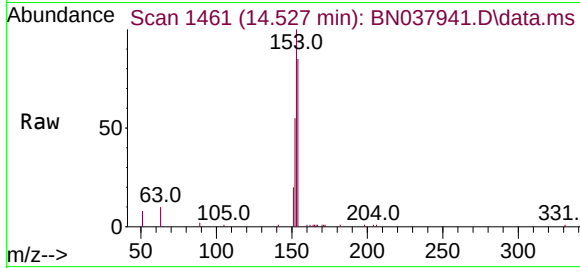




#17
Acenaphthene
Concen: 0.361 ng
RT: 14.527 min Scan# 1461
Delta R.T. -0.011 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

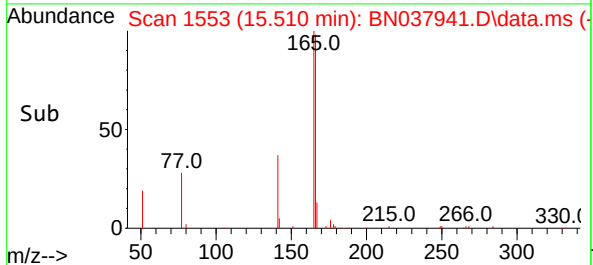
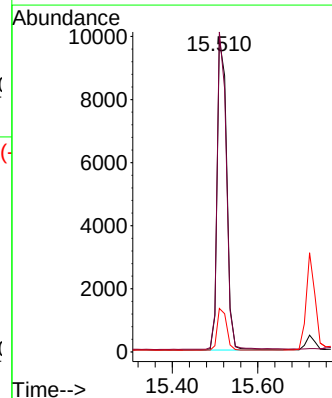
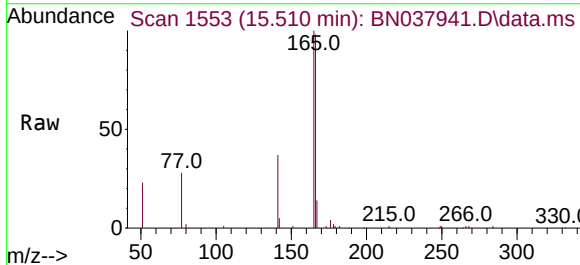
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

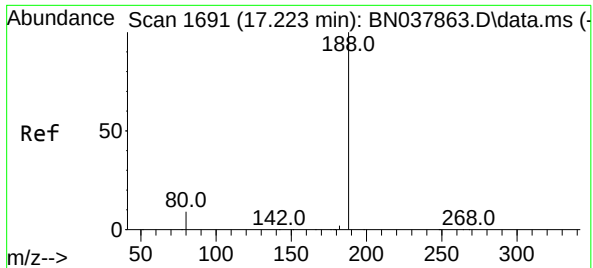
Tgt Ion:154 Resp: 12782
Ion Ratio Lower Upper
154 100
153 114.0 90.5 135.7
152 63.8 51.8 77.8



#18
Fluorene
Concen: 0.351 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:166 Resp: 15023
Ion Ratio Lower Upper
166 100
165 100.4 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: BN037941.D

Acq: 29 Sep 2025 18:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

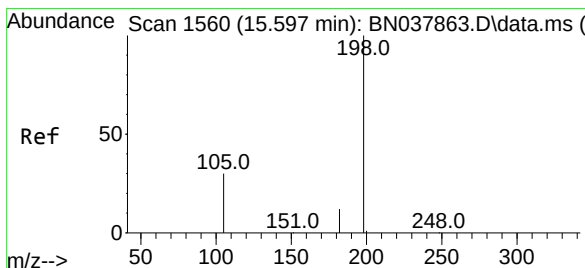
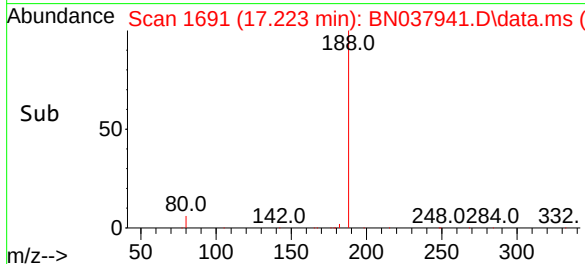
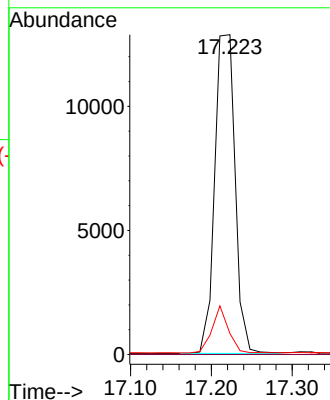
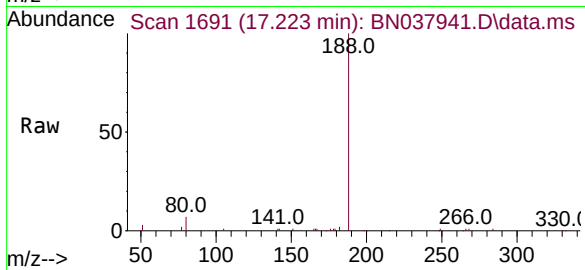
Tgt Ion:188 Resp: 22475

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.6 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.384 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

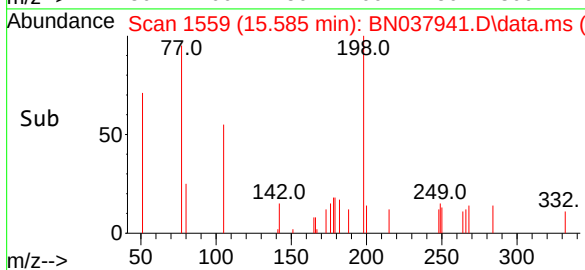
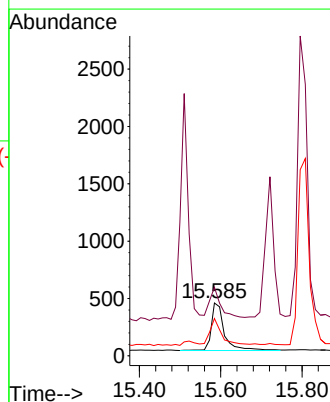
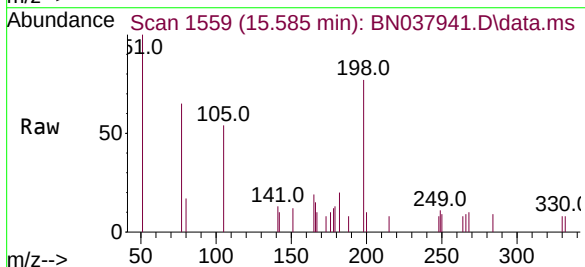
Tgt Ion:198 Resp: 913

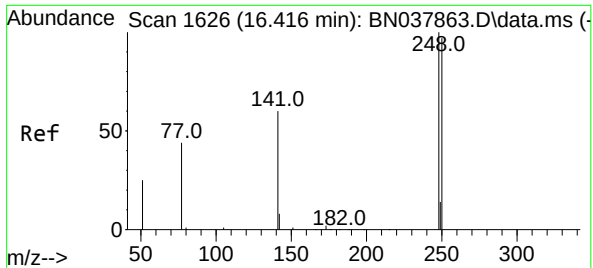
Ion Ratio Lower Upper

198 100

51 129.5 59.1 88.7#

105 70.5 41.3 61.9#

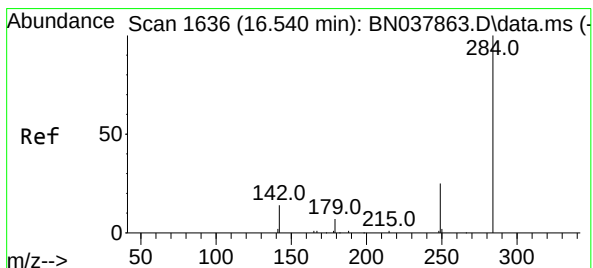
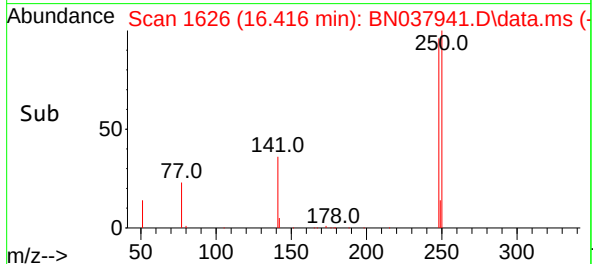
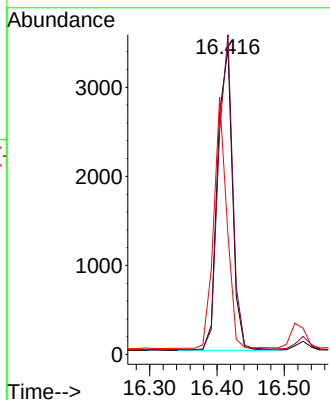
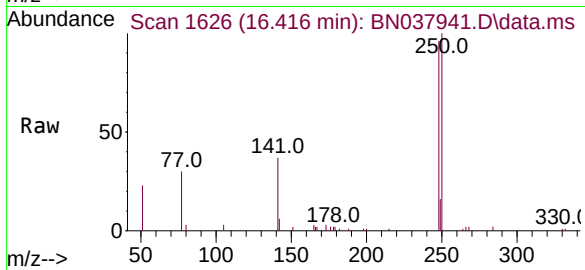




#21
4-Bromophenyl-phenylether
Concen: 0.357 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

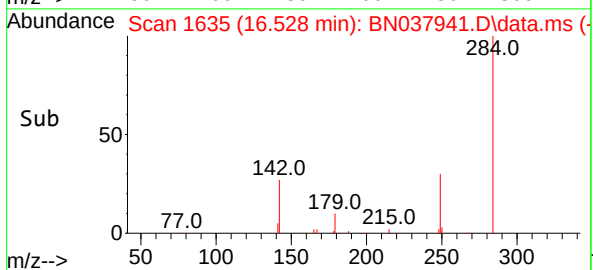
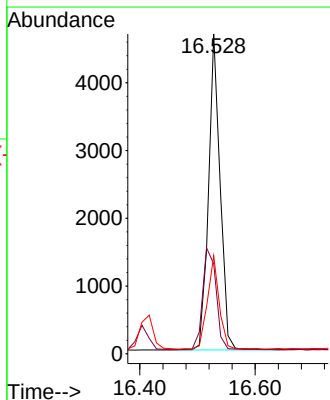
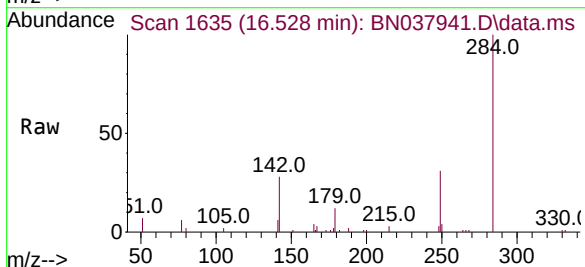
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

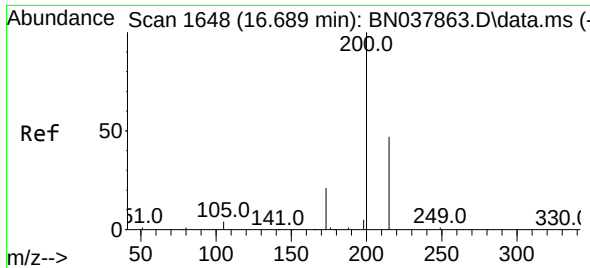
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.6	77.6	116.4
141	39.2	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.9	46.3
249	30.2	23.9	35.9

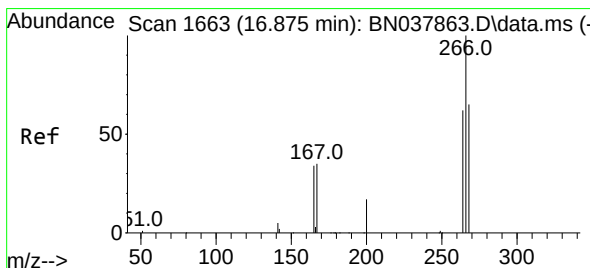
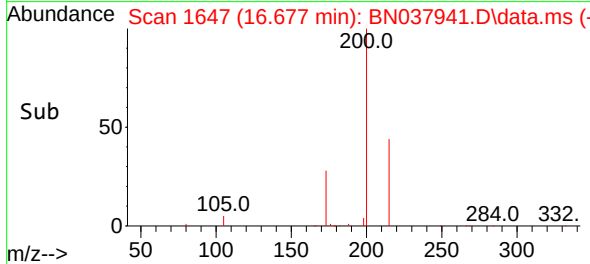
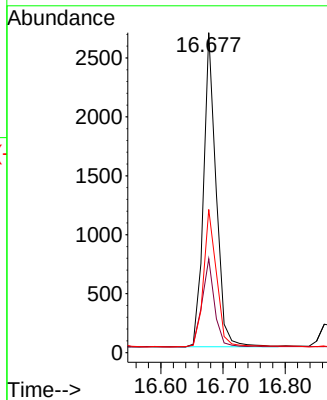
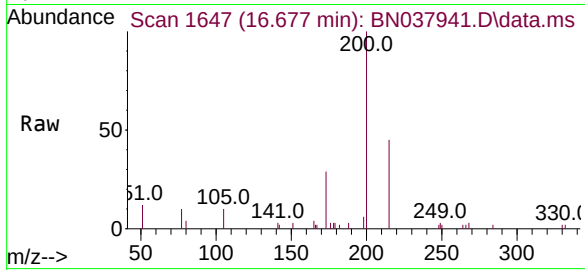




#23
Atrazine
Concen: 0.334 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

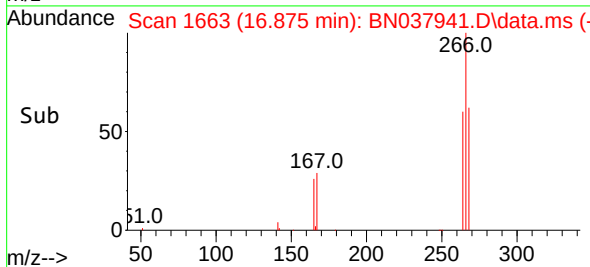
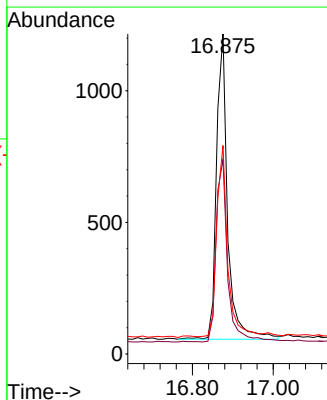
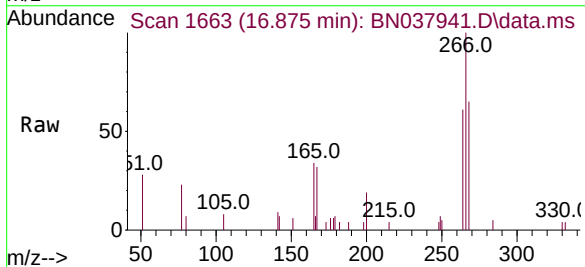
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

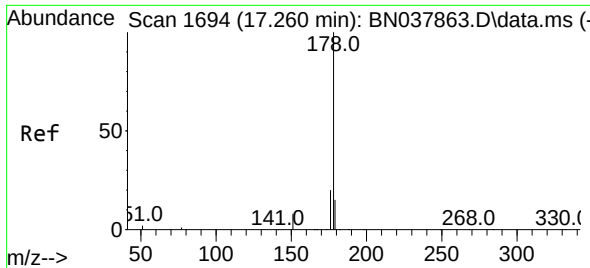
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.3	18.3	27.5#
215	44.7	38.6	58.0



#24
Pentachlorophenol
Concen: 0.364 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.8	50.9	76.3
268	62.3	54.3	81.5

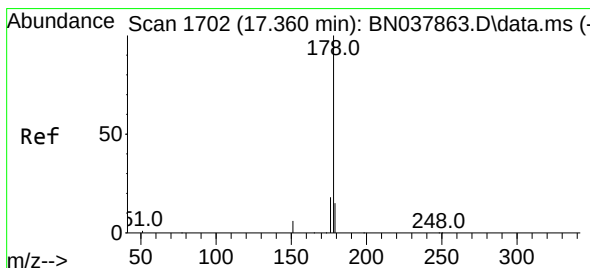
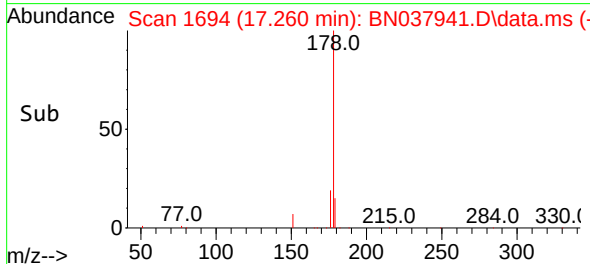
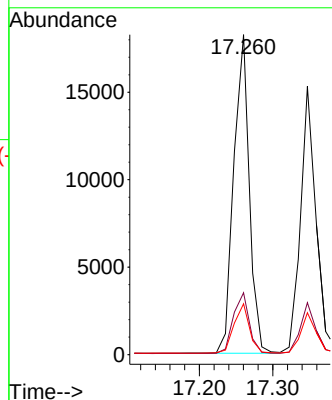
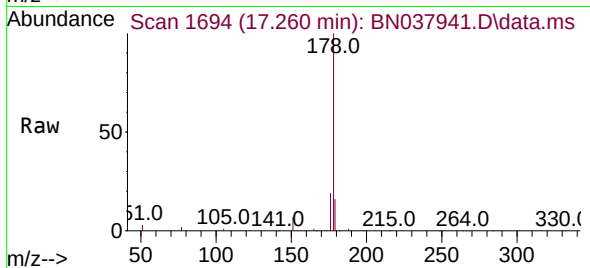




#25
Phenanthrene
Concen: 0.363 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

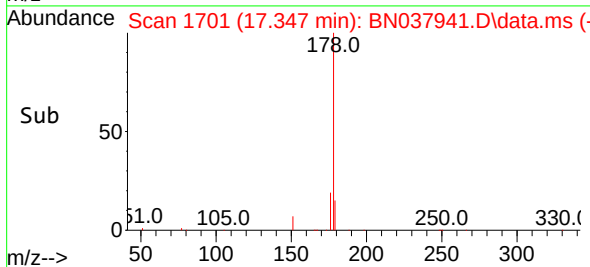
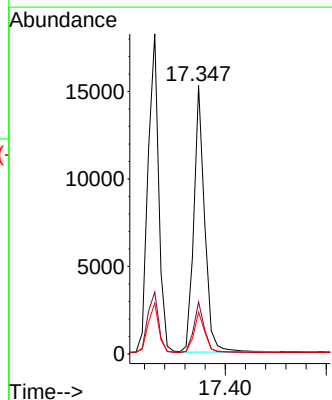
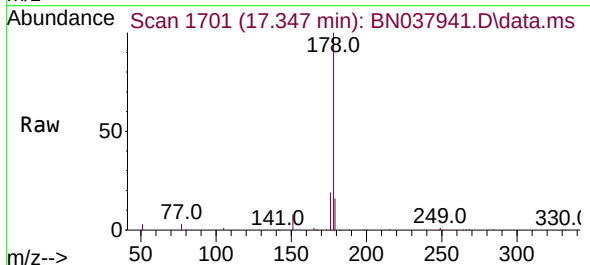
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

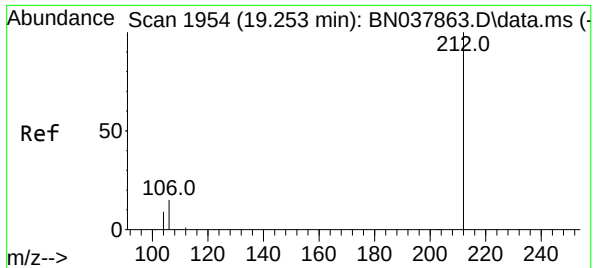
Tgt Ion	178	176	179
Resp:	26836		
Ion Ratio	100	19.7	15.5
Lower		15.7	12.3
Upper		23.5	18.5



#26
Anthracene
Concen: 0.353 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion	178	176	179
Resp:	22634		
Ion Ratio	100	18.7	15.4
Lower		15.0	12.3
Upper		22.4	18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.248 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

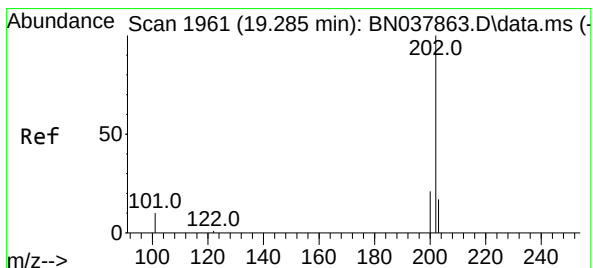
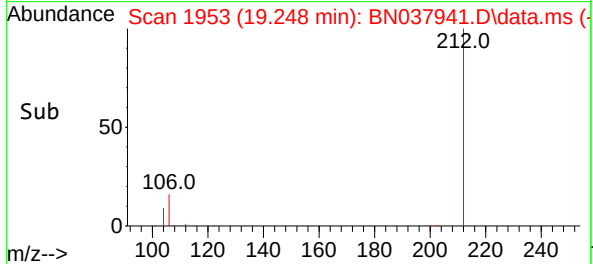
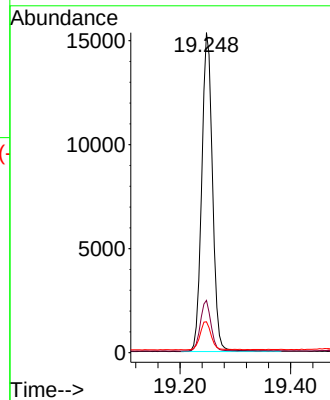
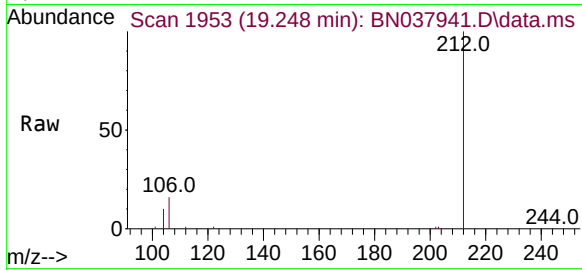
Tgt Ion:212 Resp: 20532

Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.0 7.4 11.0



#28

Fluoranthene

Concen: 0.360 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

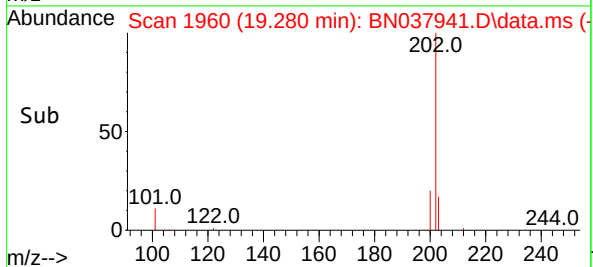
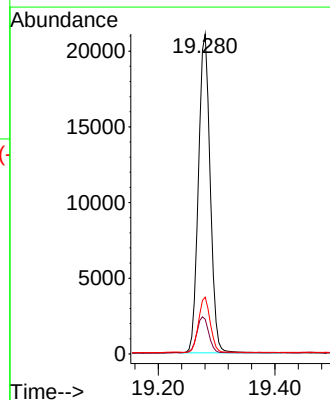
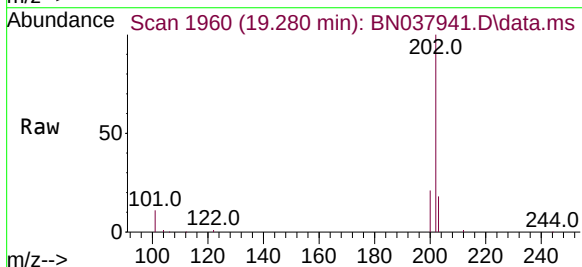
Tgt Ion:202 Resp: 29296

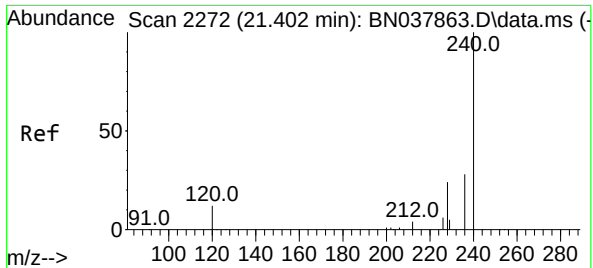
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.2 13.6 20.4

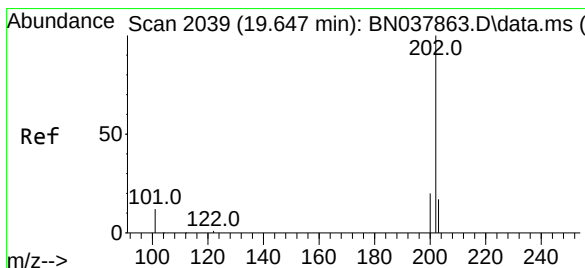
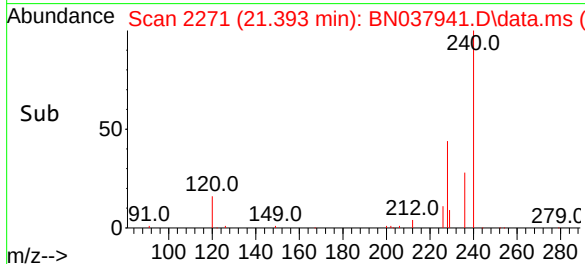
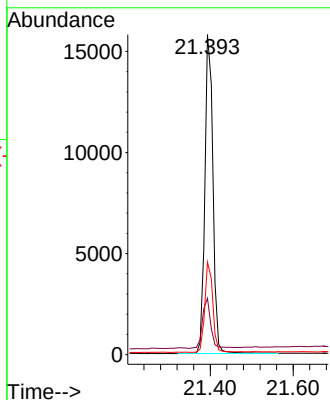
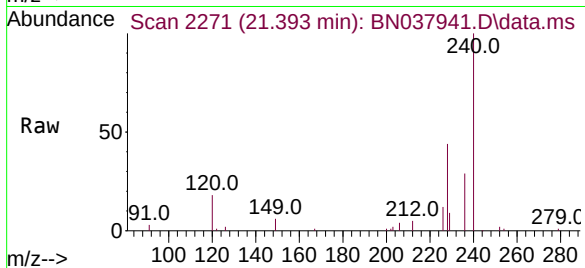




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

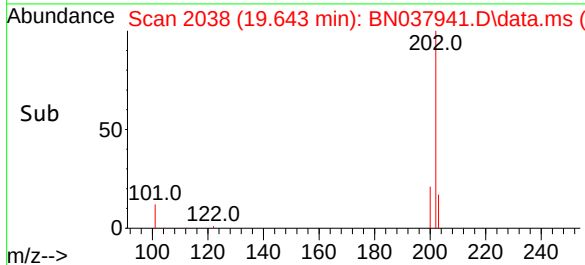
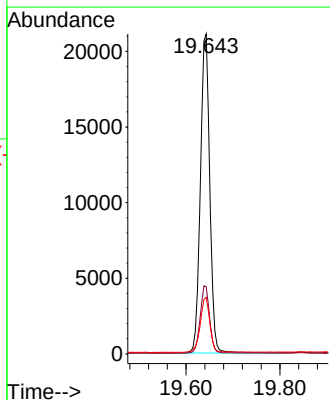
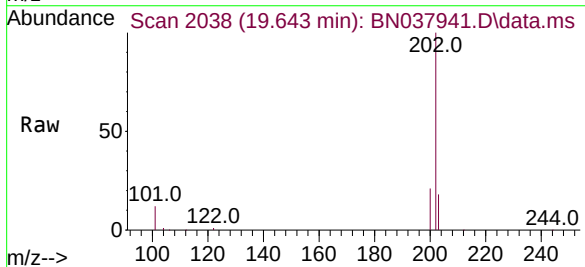
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

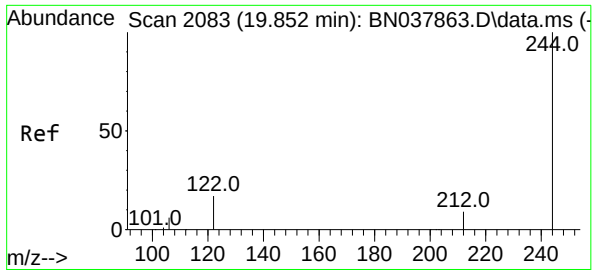
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.6	11.4	17.2#
236	28.9	23.0	34.6



#30
Pyrene
Concen: 0.351 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4

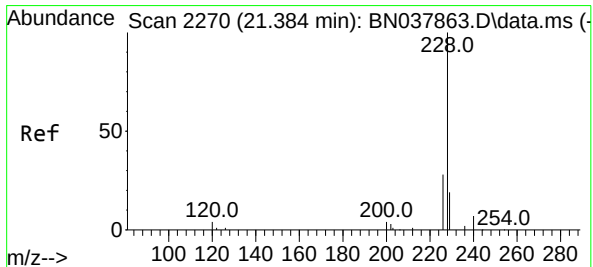
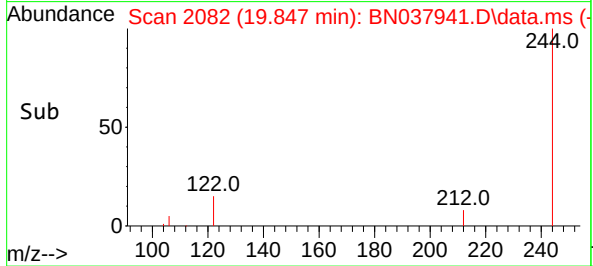
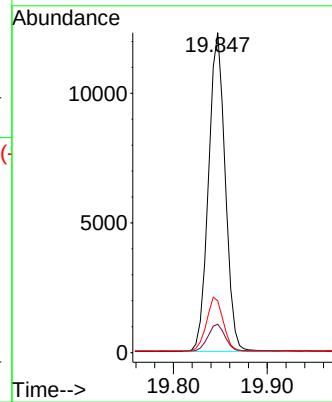
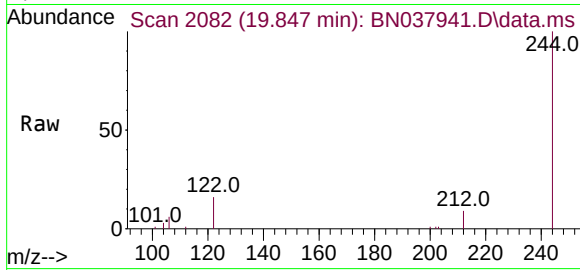




#31
Terphenyl-d14
Concen: 0.359 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

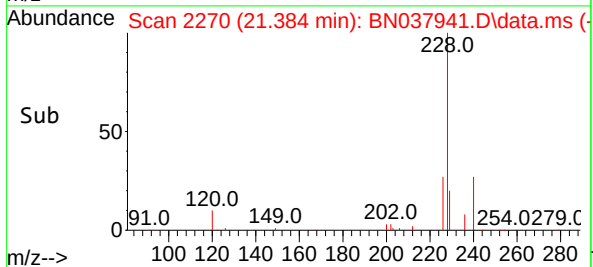
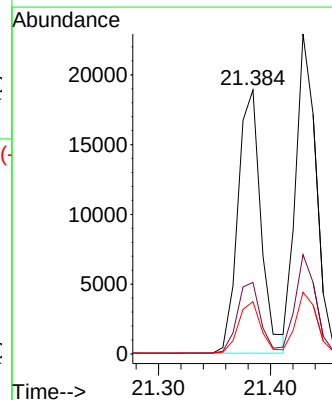
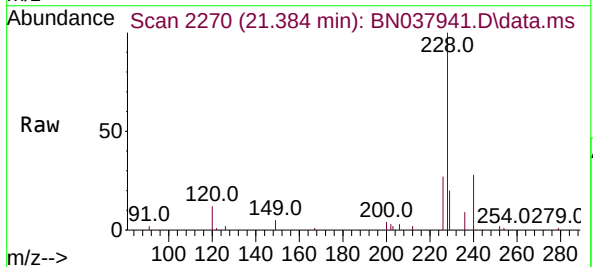
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

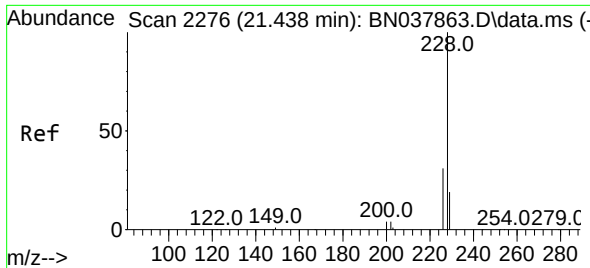
Tgt Ion:244 Resp: 15173
Ion Ratio Lower Upper
244 100
212 8.9 7.6 11.4
122 16.2 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:228 Resp: 27101
Ion Ratio Lower Upper
228 100
226 27.1 22.6 33.8
229 19.8 15.6 23.4

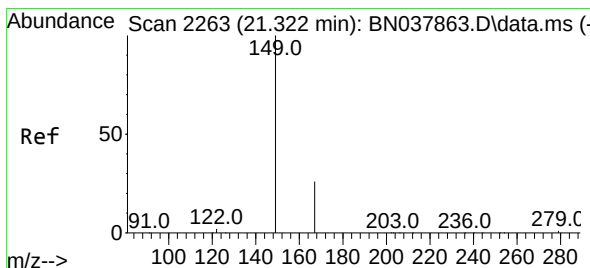
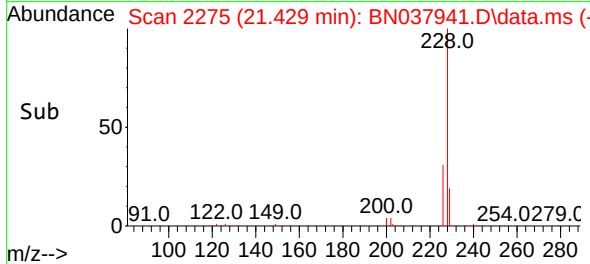
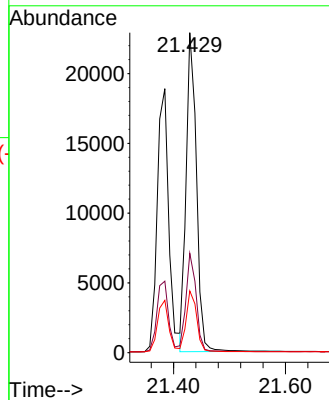
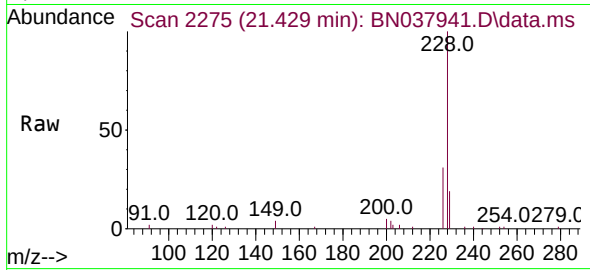




#33
Chrysene
Concen: 0.367 ng
RT: 21.429 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

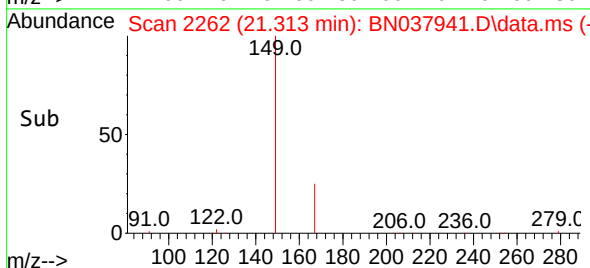
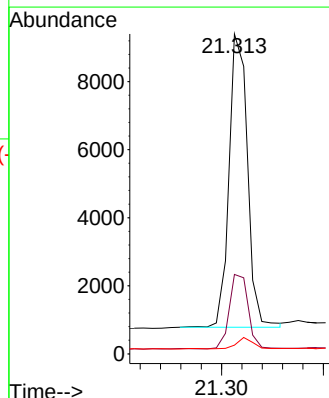
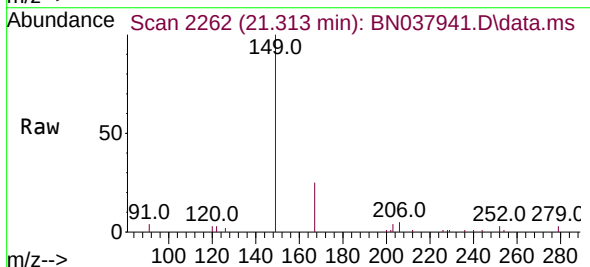
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

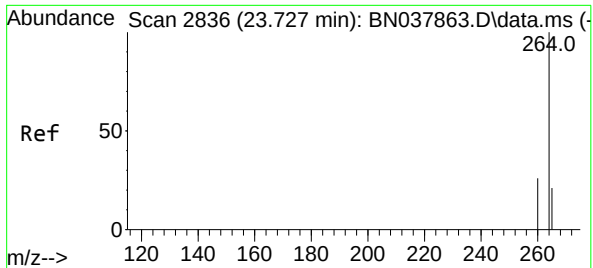
Tgt Ion:	228	Resp:	29366
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.6	37.0
229	19.3	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.370 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

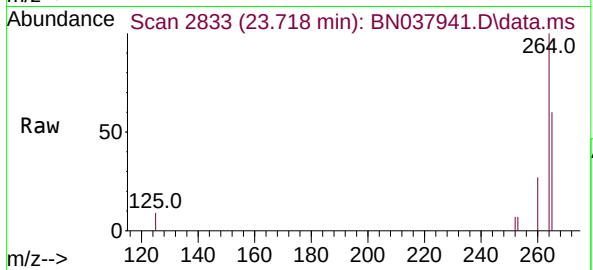
Tgt Ion:	149	Resp:	10848
Ion Ratio	Lower	Upper	
149	100		
167	26.1	20.4	30.6
279	3.4	2.4	3.6



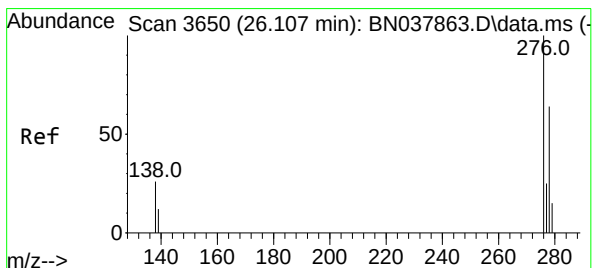
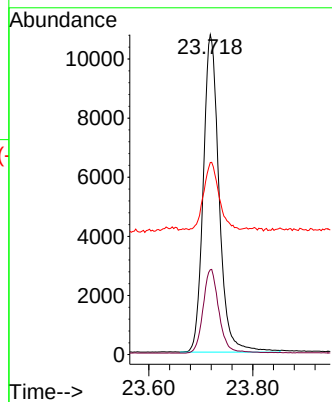
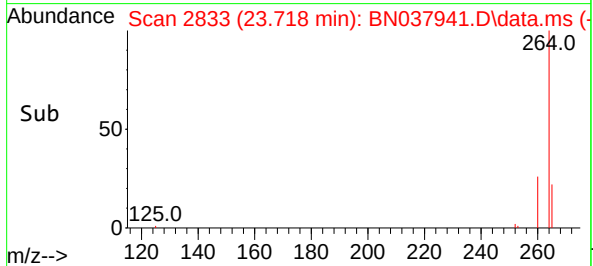


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.718 min Scan# 2833
Delta R.T. -0.009 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

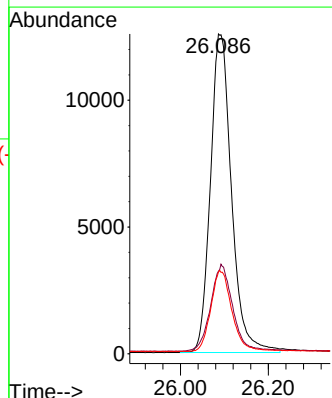
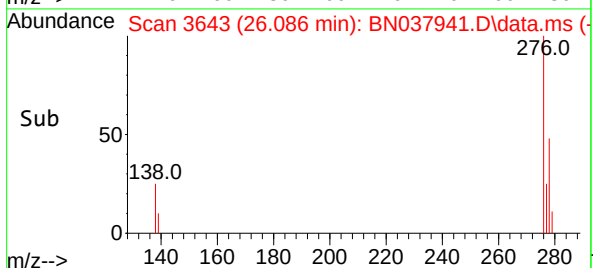
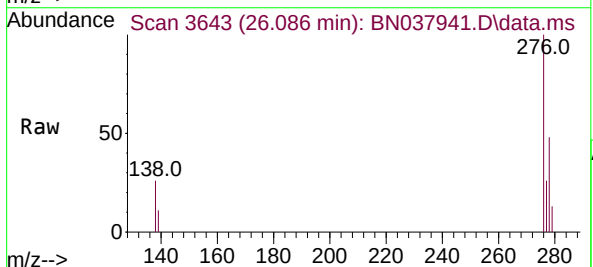


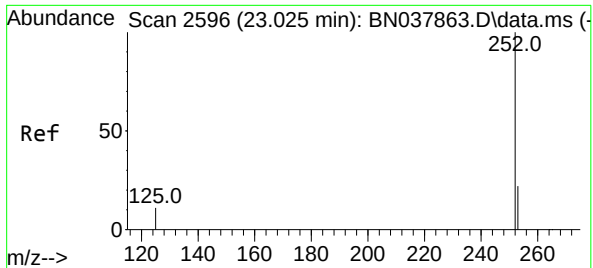
Tgt Ion:264 Resp: 22679
Ion Ratio Lower Upper
264 100
260 26.5 21.5 32.3
265 60.0 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 26.086 min Scan# 3643
Delta R.T. -0.020 min
Lab File: BN037941.D
Acq: 29 Sep 2025 18:46

Tgt Ion:276 Resp: 41916
Ion Ratio Lower Upper
276 100
138 28.1 21.4 32.0
277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.347 ng

RT: 23.016 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

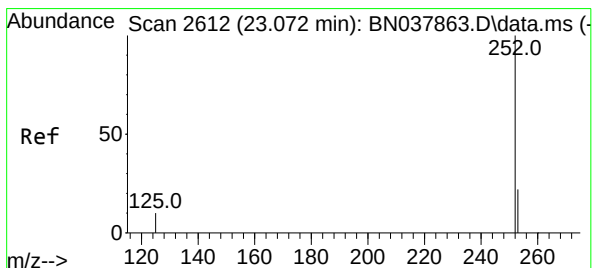
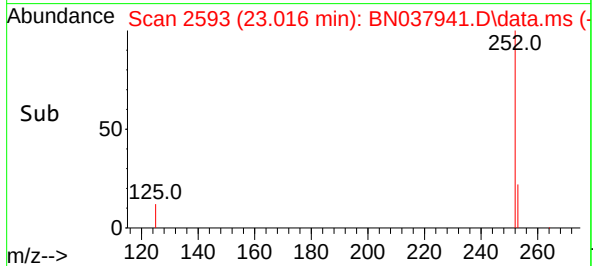
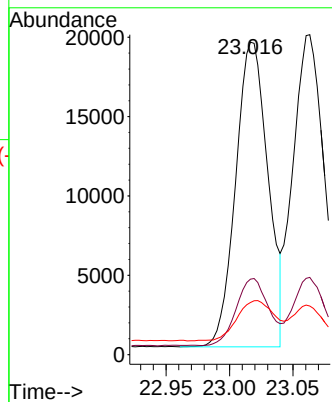
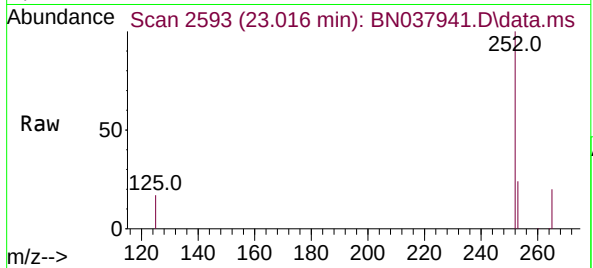
Tgt Ion:252 Resp: 33935

Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.0

125 16.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.352 ng

RT: 23.063 min Scan# 2609

Delta R.T. -0.009 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

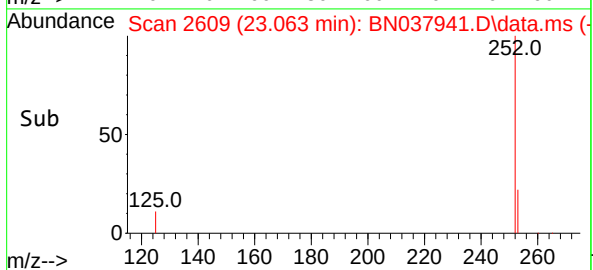
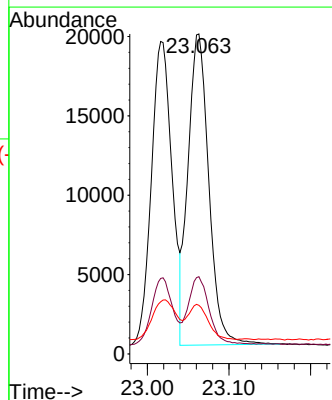
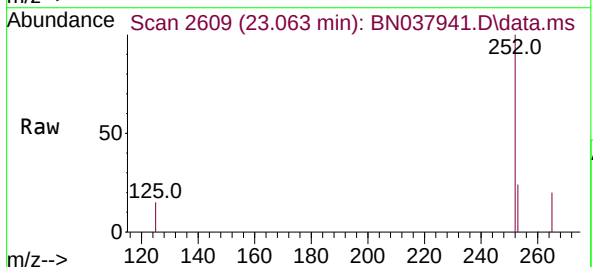
Tgt Ion:252 Resp: 34641

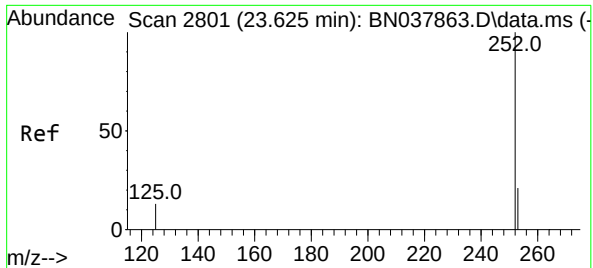
Ion Ratio Lower Upper

252 100

253 24.1 19.5 29.3

125 15.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.619 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

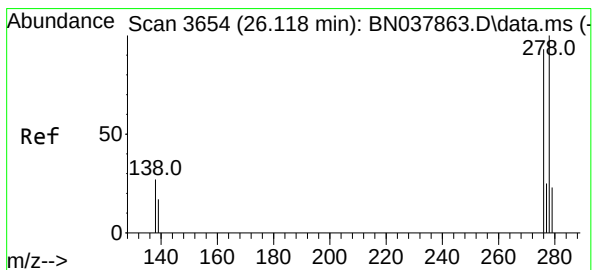
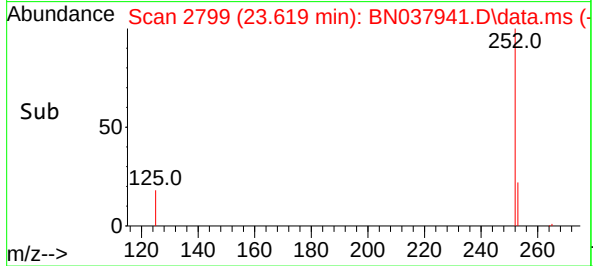
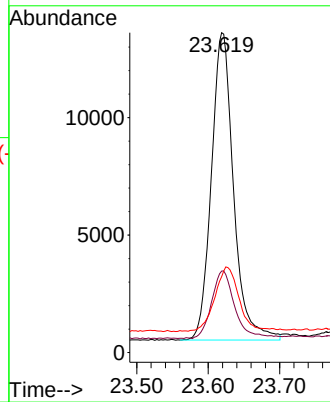
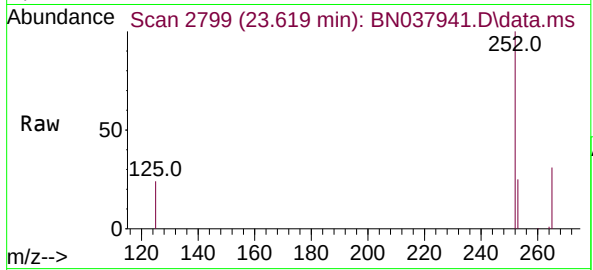
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	252	Resp:	28276
Ion Ratio	Lower	Upper	
252	100		
253	25.5	20.6	30.8
125	23.7	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.406 ng

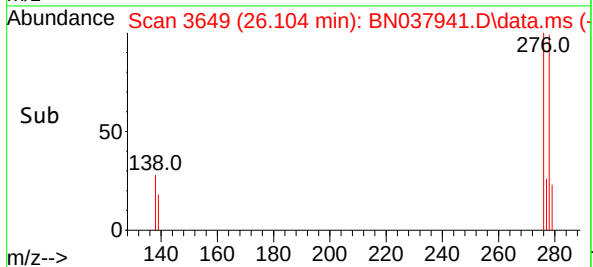
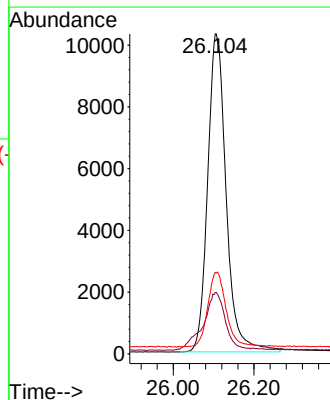
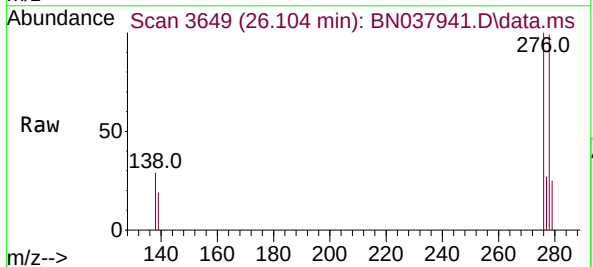
RT: 26.104 min Scan# 3649

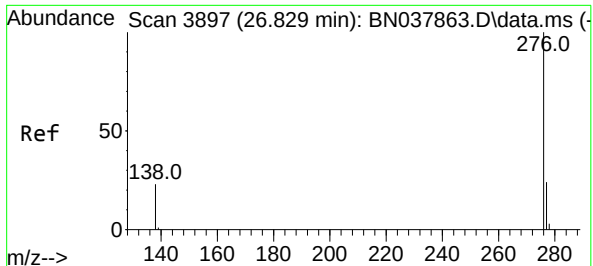
Delta R.T. -0.015 min

Lab File: BN037941.D

Acq: 29 Sep 2025 18:46

Tgt Ion:	278	Resp:	32843
Ion Ratio	Lower	Upper	
278	100		
139	19.2	15.4	23.2
279	25.5	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.387 ng

RT: 26.814 min Scan# 38

Delta R.T. -0.015 min

Lab File: BN037941.D

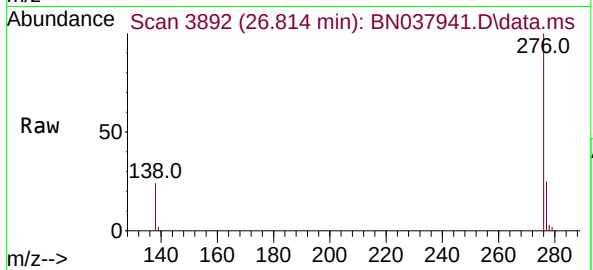
Acq: 29 Sep 2025 18:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



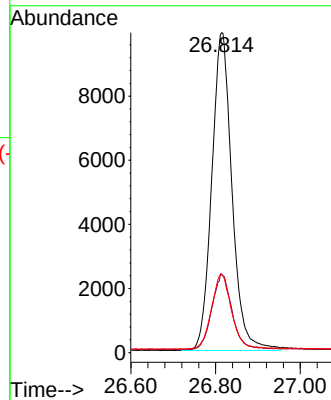
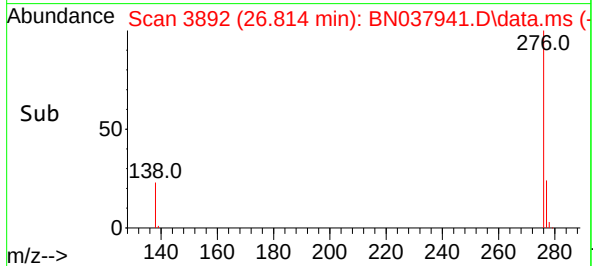
Tgt Ion:276 Resp: 32940

Ion Ratio Lower Upper

276 100

277 24.6 20.2 30.4

138 24.2 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037941.D
Acq On : 29 Sep 2025 18:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 29 19:10:53 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	126	0.00
2	1,4-Dioxane	0.406	0.382	5.9	117	0.00
3	n-Nitrosodimethylamine	0.540	0.486	10.0	118	0.00
4 S	2-Fluorophenol	0.913	0.907	0.7	133	0.00
5 S	Phenol-d6	1.199	1.110	7.4	125	0.00
6	bis(2-Chloroethyl)ether	1.113	1.064	4.4	124	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	133	-0.01
8 S	Nitrobenzene-d5	0.305	0.282	7.5	130	-0.01
9	Naphthalene	1.102	1.044	5.3	133	0.00
10	Hexachlorobutadiene	0.188	0.181	3.7	132	-0.01
11 SURR	2-Methylnaphthalene-d10	0.556	0.490	11.9	131	0.00
12	2-Methylnaphthalene	0.720	0.643	10.7	128	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00
14 S	2,4,6-Tribromophenol	0.152	0.142	6.6	139	-0.01
15 S	2-Fluorobiphenyl	1.638	1.513	7.6	129	0.00
16	Acenaphthylene	1.816	1.678	7.6	134	-0.01
17	Acenaphthene	1.294	1.169	9.7	129	-0.01
18	Fluorene	1.565	1.374	12.2	125	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.041	28.1#	131	-0.01
21	4-Bromophenyl-phenylether	0.261	0.233	10.7	134	0.00
22	Hexachlorobenzene	0.316	0.290	8.2	134	-0.01
23	Atrazine	0.199	0.166	16.6	136	-0.01
24	Pentachlorophenol	0.108	0.099	8.3	151#	0.00
25	Phenanthrene	1.316	1.194	9.3	137	0.00
26	Anthracene	1.142	1.007	11.8	139	-0.01
27 SURR	Fluoranthene-d10	1.006	0.914	9.1	145	0.00
28	Fluoranthene	1.450	1.303	10.1	140	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	156#	0.00
30	Pyrene	1.579	1.384	12.3	142	0.00
31 S	Terphenyl-d14	0.797	0.716	10.2	148	0.00
32	Benzo(a)anthracene	1.398	1.279	8.5	154#	0.00
33	Chrysene	1.512	1.386	8.3	148	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.512	7.4	164#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	180#	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.848	-1.1	201#	-0.02
37	Benzo(b)fluoranthene	1.725	1.496	13.3	164#	0.00
38	Benzo(k)fluoranthene	1.736	1.527	12.0	172#	0.00
39 C	Benzo(a)pyrene	1.364	1.247	8.6	183#	0.00
40	Dibenzo(a,h)anthracene	1.427	1.448	-1.5	200#	-0.01
41	Benzo(g,h,i)perylene	1.499	1.452	3.1	187#	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037941.D
Acq On : 29 Sep 2025 18:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 29 19:10:53 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	126	0.00
2	1,4-Dioxane	0.400	0.377	5.8	117	0.00
3	n-Nitrosodimethylamine	0.400	0.360	10.0	118	0.00
4 S	2-Fluorophenol	0.400	0.397	0.8	133	0.00
5 S	Phenol-d6	0.400	0.370	7.5	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.382	4.5	124	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	133	-0.01
8 S	Nitrobenzene-d5	0.400	0.369	7.8	130	-0.01
9	Naphthalene	0.400	0.379	5.3	133	0.00
10	Hexachlorobutadiene	0.400	0.385	3.8	132	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.353	11.8	131	0.00
12	2-Methylnaphthalene	0.400	0.357	10.8	128	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	133	0.00
14 S	2,4,6-Tribromophenol	0.400	0.373	6.8	139	-0.01
15 S	2-Fluorobiphenyl	0.400	0.369	7.8	129	0.00
16	Acenaphthylene	0.400	0.370	7.5	134	-0.01
17	Acenaphthene	0.400	0.361	9.8	129	-0.01
18	Fluorene	0.400	0.351	12.3	125	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.384	4.0	131	-0.01
21	4-Bromophenyl-phenylether	0.400	0.357	10.8	134	0.00
22	Hexachlorobenzene	0.400	0.368	8.0	134	-0.01
23	Atrazine	0.400	0.334	16.5	136	-0.01
24	Pentachlorophenol	0.400	0.364	9.0	151	0.00
25	Phenanthrene	0.400	0.363	9.3	137	0.00
26	Anthracene	0.400	0.353	11.8	139	-0.01
27 SURR	Fluoranthene-d10	0.400	0.363	9.3	145	0.00
28	Fluoranthene	0.400	0.360	10.0	140	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	156	0.00
30	Pyrene	0.400	0.351	12.3	142	0.00
31 S	Terphenyl-d14	0.400	0.359	10.3	148	0.00
32	Benzo(a)anthracene	0.400	0.366	8.5	154	0.00
33	Chrysene	0.400	0.367	8.3	148	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.370	7.5	164	0.00
35 I	Perylene-d12	0.400	0.400	0.0	180	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	201	-0.02
37	Benzo(b)fluoranthene	0.400	0.347	13.3	164	0.00
38	Benzo(k)fluoranthene	0.400	0.352	12.0	172	0.00
39 C	Benzo(a)pyrene	0.400	0.366	8.5	183	0.00
40	Dibenzo(a,h)anthracene	0.400	0.406	-1.5	200	-0.01
41	Benzo(g,h,i)perylene	0.400	0.387	3.3	187	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

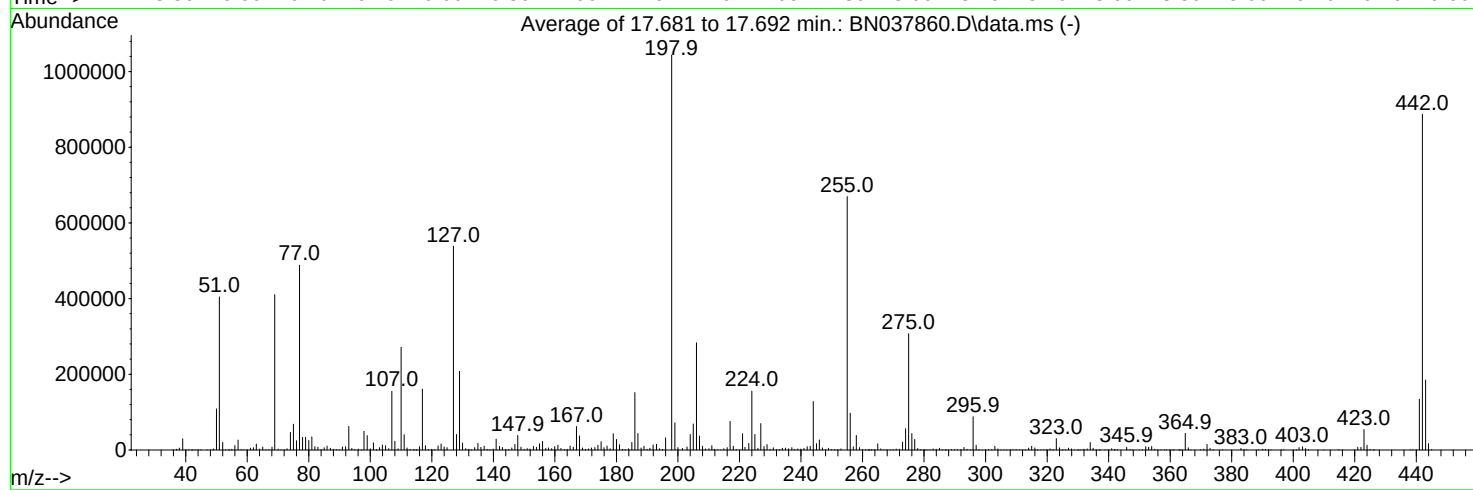
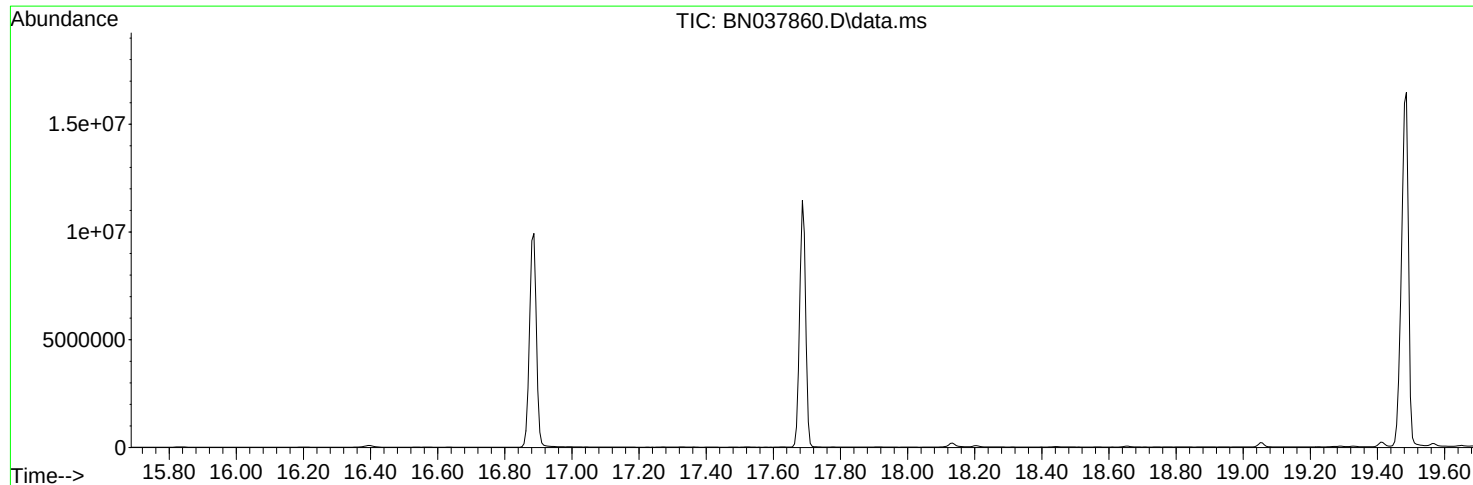
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\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



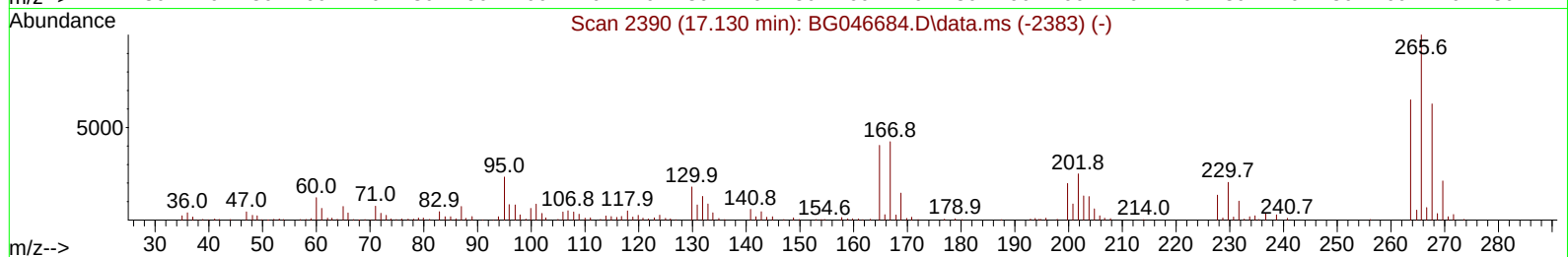
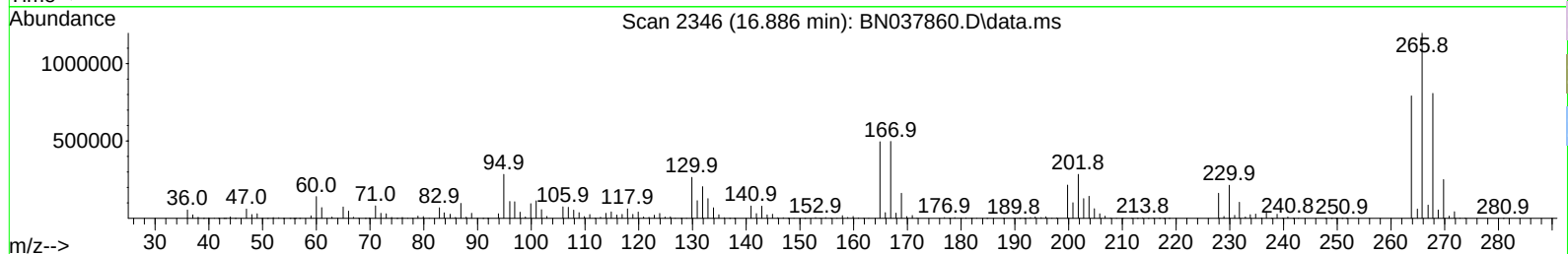
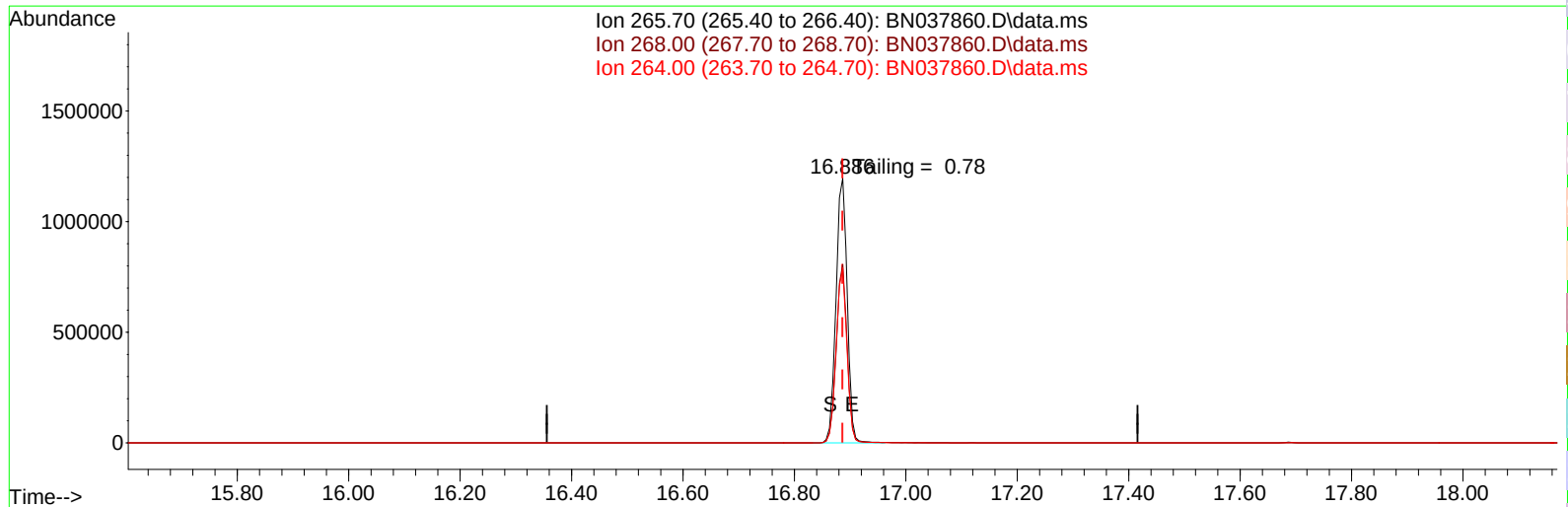
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

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)

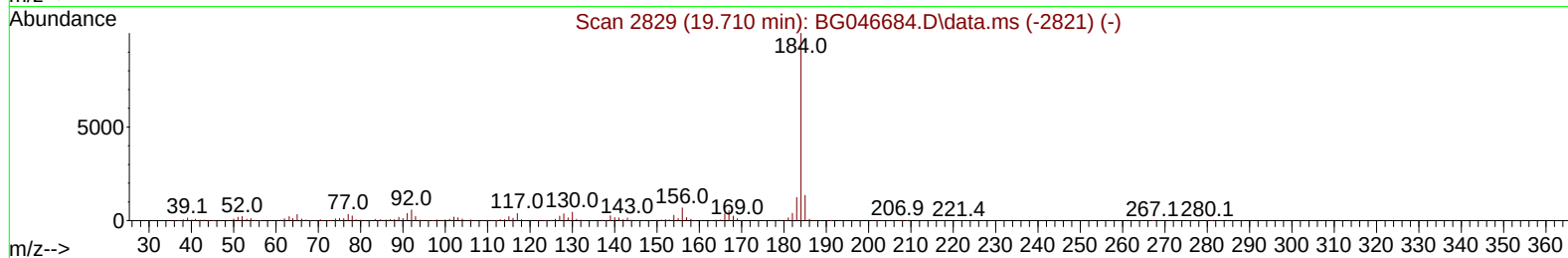
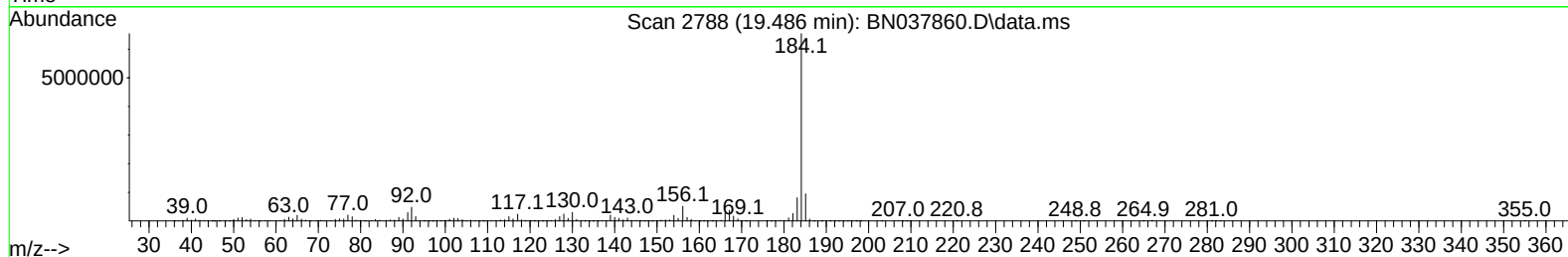
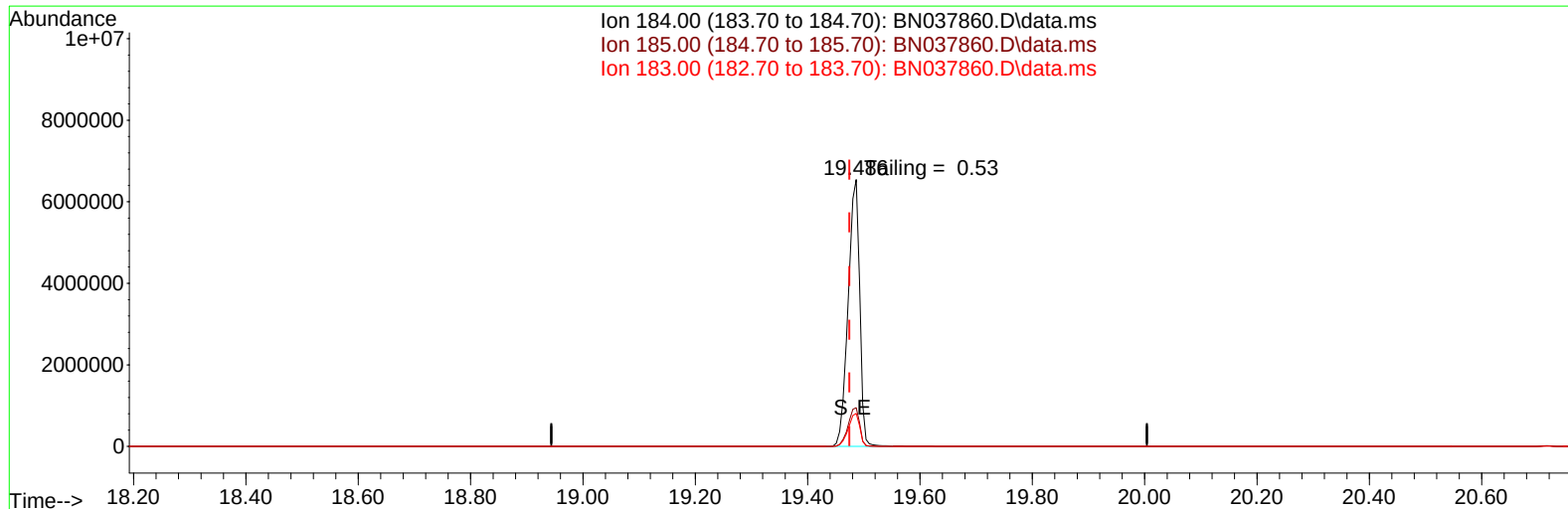
16.886min (+ 0.001) 30744.23 ng

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

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

(77) Benzidine

19.486min (+ 0.012) 0.00 ng

response **9413593**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.50
183.00	13.20	12.37
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

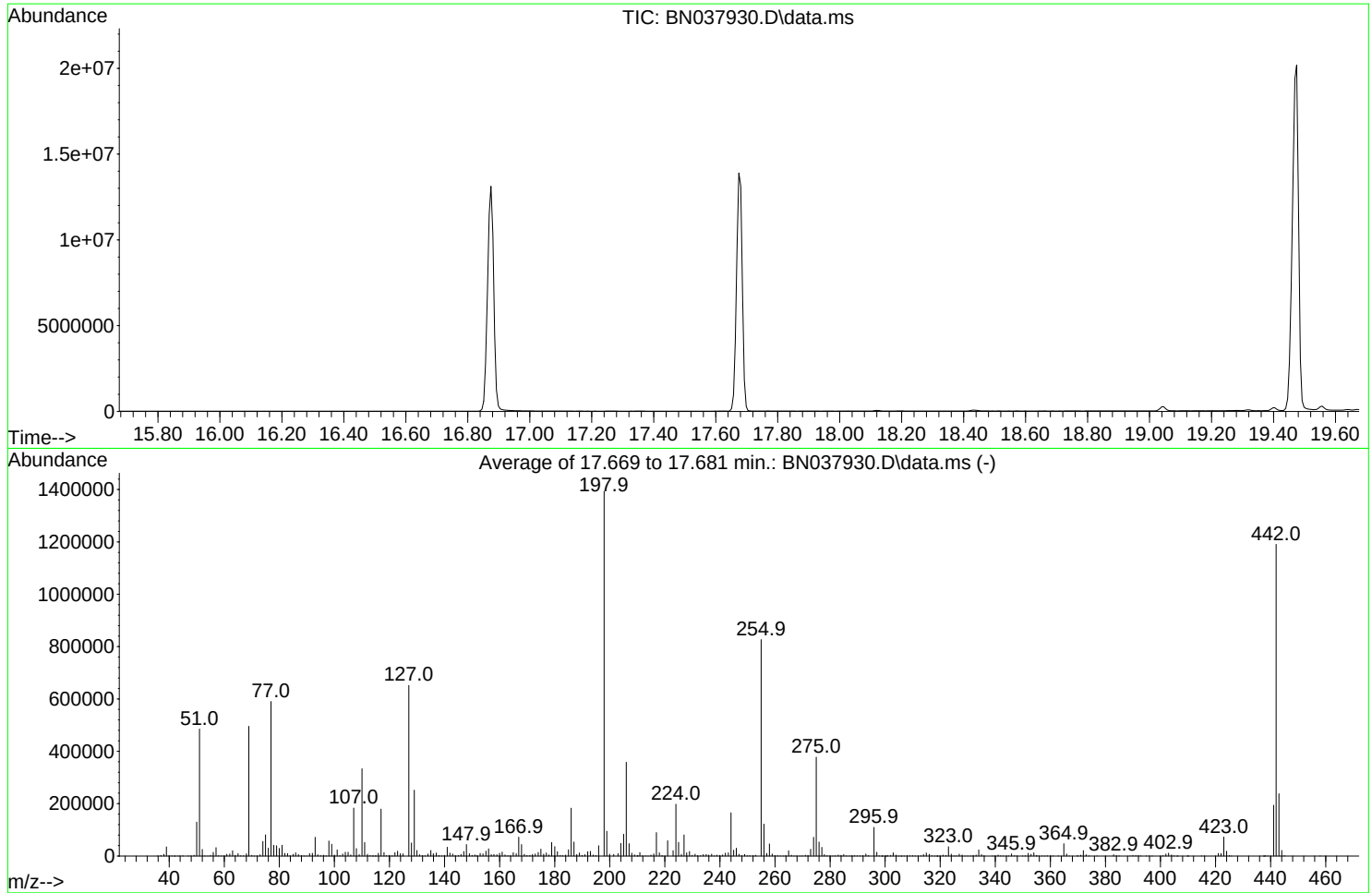
Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	<u>BN037860.D</u>
Compound Name	Response	Retention Time
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11961	4317957	0.28

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037930.D
Acq On : 29 Sep 2025 10:15
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 : Wed Sep 24 11:00:01 2025



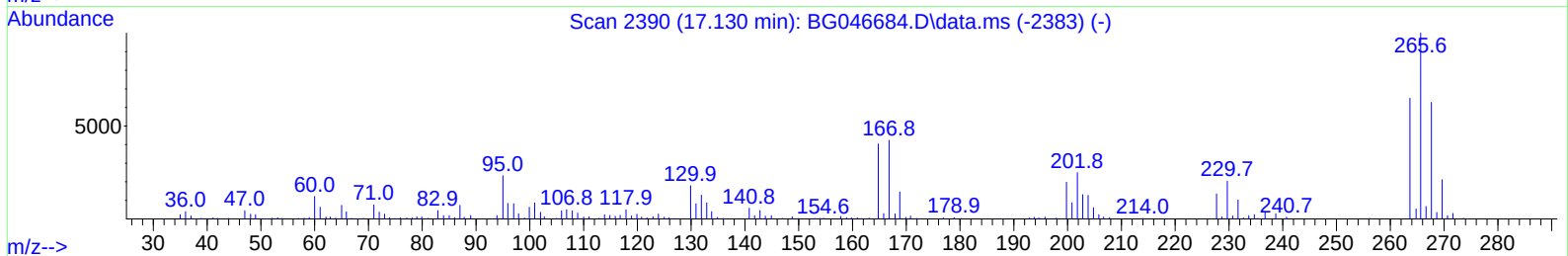
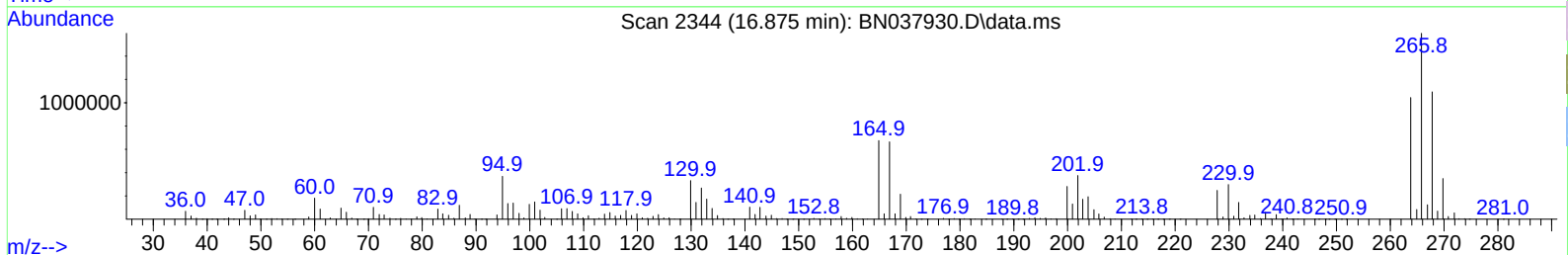
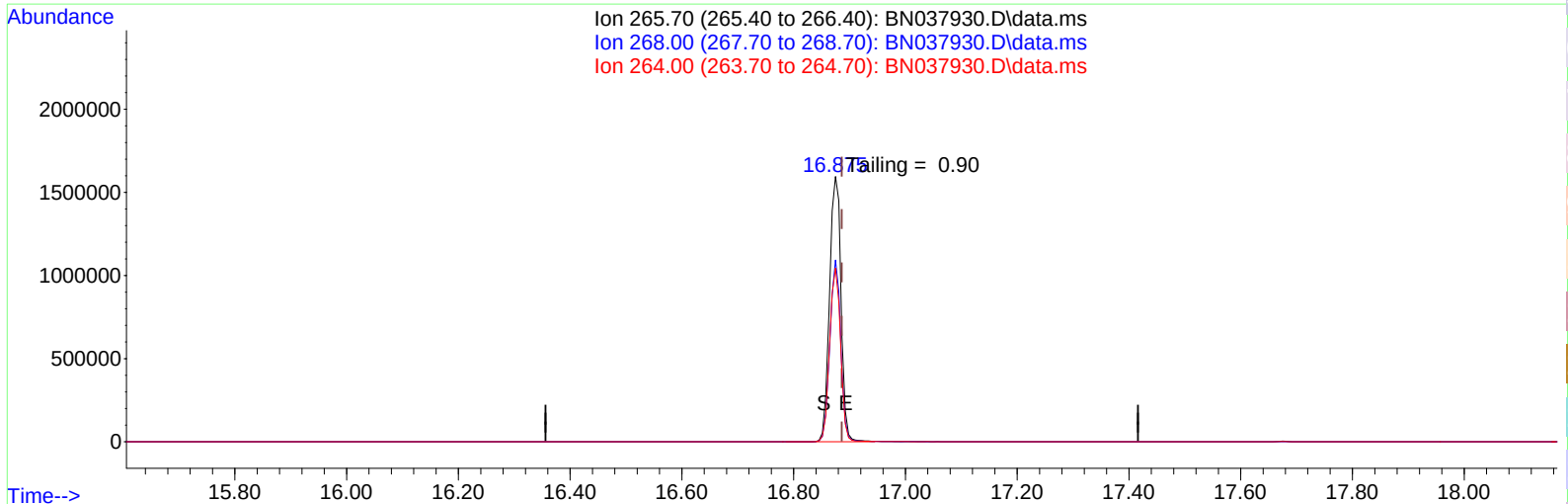
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	8960	PASS
69	69	100	100	100.0	495262	PASS
70	69	0.00	2	0.5	2469	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1392981	PASS
199	198	5	9	6.8	94760	PASS
365	198	1	100	3.4	47144	PASS
441	443	0.01	150	81.6	193963	PASS
442	442	100	100	100.0	1190699	PASS
443	442	15	24	20.0	237845	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037930.D
Acq On : 29 Sep 2025 10:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 29 11:50:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 29 10:34:59 2025
Response via : Initial Calibration



TIC: BN037930.D\data.ms

(70) Pentachlorophenol (C)

16.875min (-0.011) 35044.31 ng

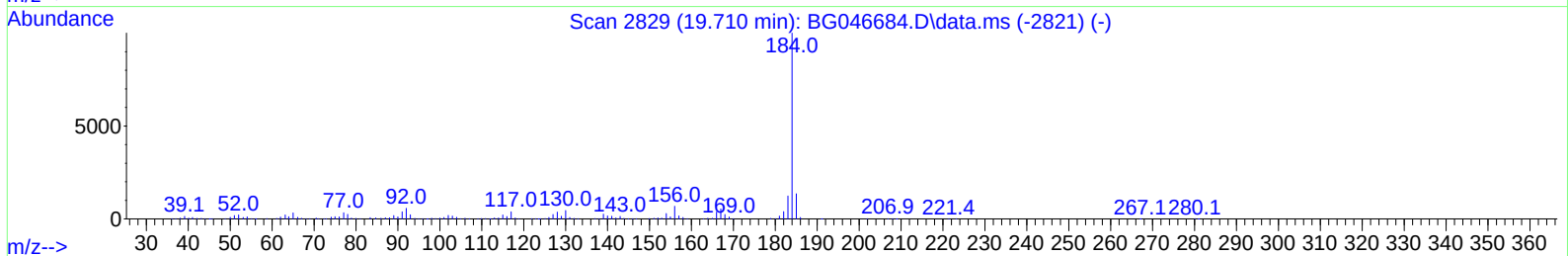
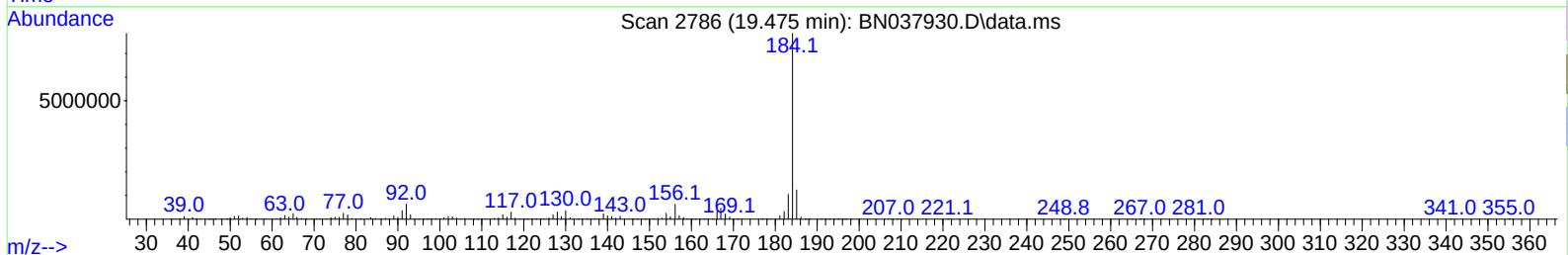
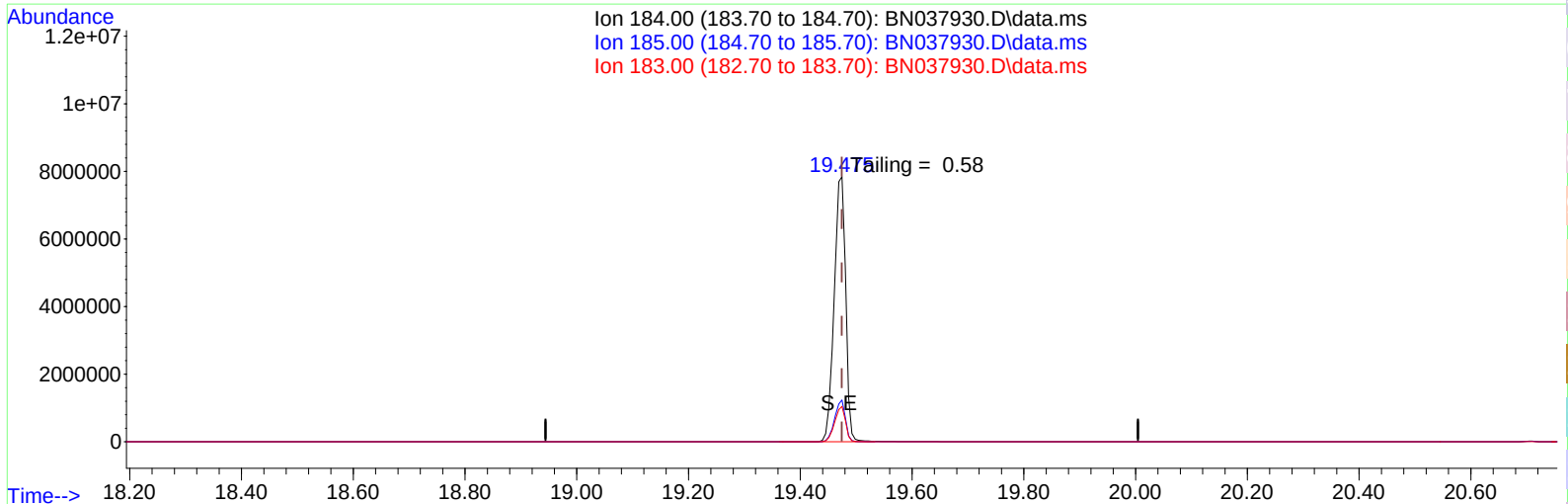
response 2284032

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	68.49
264.00	61.60	65.46
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037930.D
Acq On : 29 Sep 2025 10:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 29 11:50:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 29 10:34:59 2025
Response via : Initial Calibration



TIC: BN037930.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 11301983

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.77
183.00	13.20	13.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/29/2025	BNA_N	<u>BN037930.D</u>
Compound Name	Response	Retention Time
DDT	5429934	20.71
DDD	31482	20.263
DDE	733	19.845
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
32215	5462149	0.59

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169839BL	SDG No.:	Q3165
Lab Sample ID:	PB169839BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037932.D	1	09/25/25 11:00	09/29/25 12:06	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8650	7.818				
1146-65-2	Naphthalene-d8	24400	10.616				
15067-26-2	Acenaphthene-d10	11900	14.473				
1517-22-2	Phenanthrene-d10	23400	17.223				
1719-03-5	Chrysene-d12	17600	21.402				
1520-96-3	Perylene-d12	14300	23.724				

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\BN092925\
Data File : BN037932.D
Acq On : 29 Sep 2025 12:06
Operator : RC/JU
Sample : PB169839BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169839BL

Quant Time: Sep 29 12:32:06 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	7.818	152	8651	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	24367	0.400	ng	-0.01
13) Acenaphthene-d10	14.473	164	11932	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	23393	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	17581	0.400	ng	0.00
35) Perylene-d12	23.724	264	14270	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	7784	0.394	ng	0.00
5) Phenol-d6	6.973	99	9742	0.376	ng	0.00
8) Nitrobenzene-d5	8.961	82	6911	0.372	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	11835	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1137	0.251	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	18416	0.377	ng	0.00
27) Fluoranthene-d10	19.253	212	21125	0.359	ng	0.00
31) Terphenyl-d14	19.847	244	14935	0.426	ng	0.00

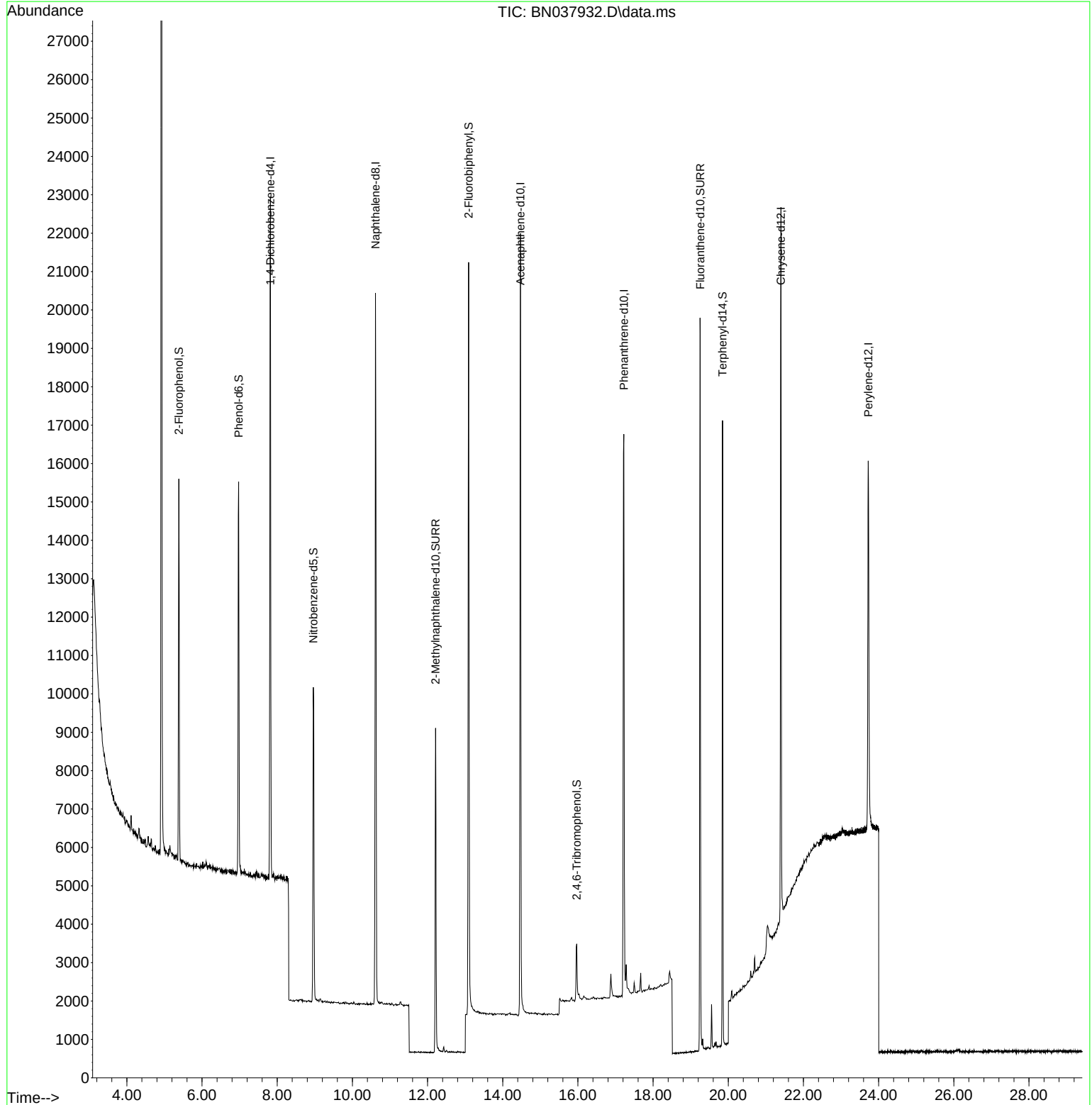
Target Compounds	Qvalue

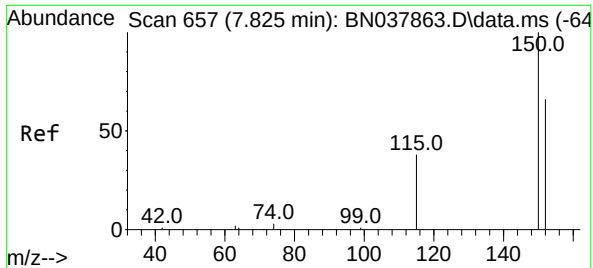
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037932.D
Acq On : 29 Sep 2025 12:06
Operator : RC/JU
Sample : PB169839BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169839BL

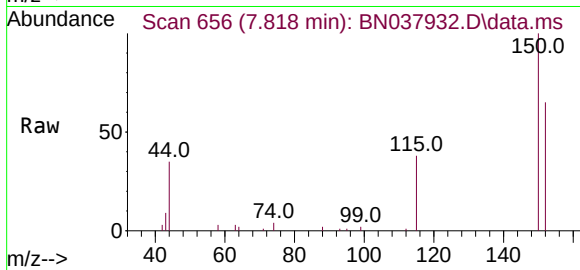
Quant Time: Sep 29 12:32:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



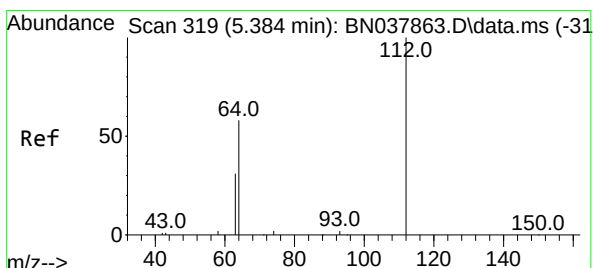
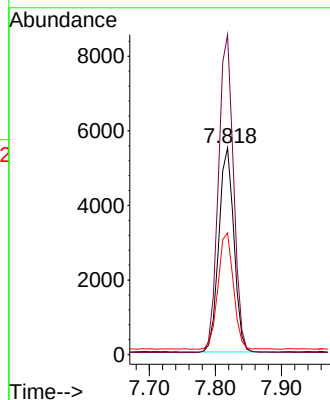
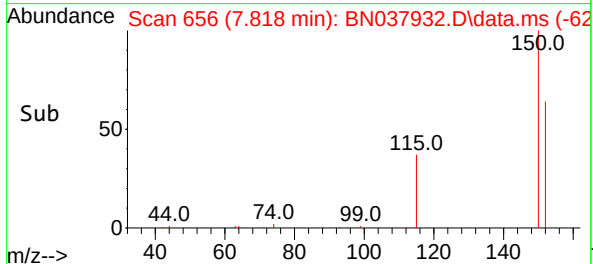


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Instrument :
BNA_N
ClientSampleId :
PB169839BL

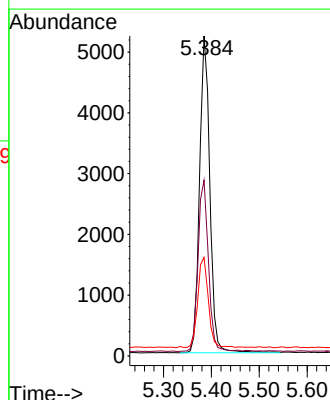
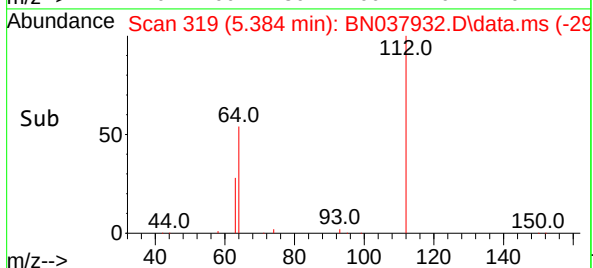
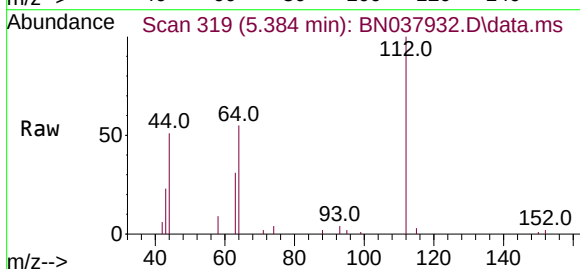


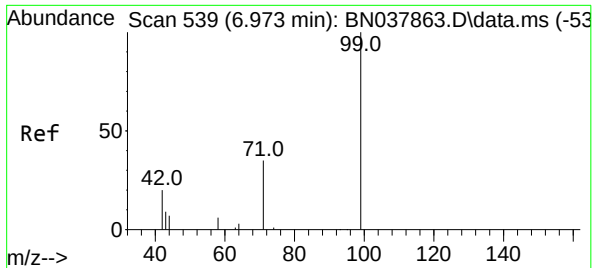
Tgt Ion:152 Resp: 8651
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 58.8 47.4 71.0



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Tgt Ion:112 Resp: 7784
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.5 24.9 37.3

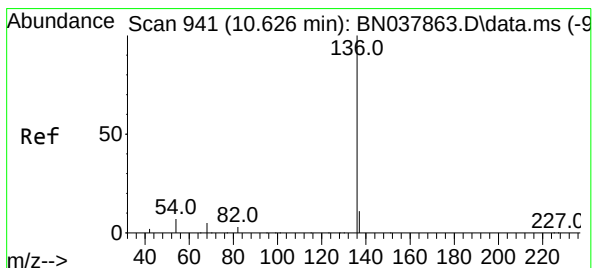
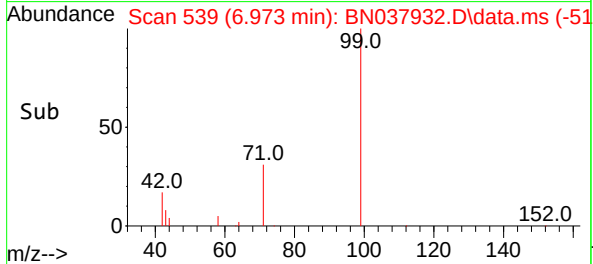
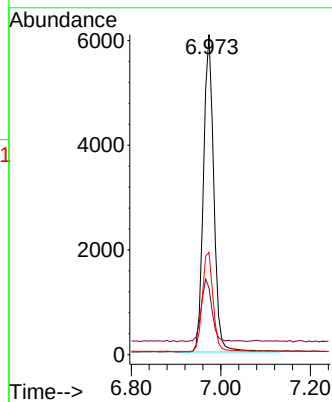
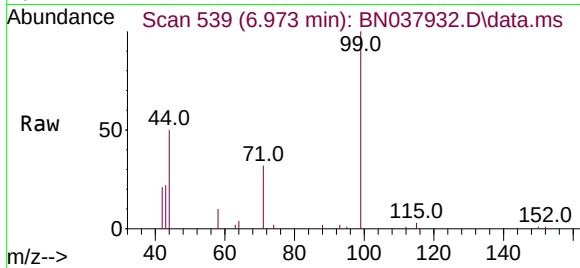




#5
Phenol-d6
Concen: 0.376 ng
RT: 6.973 min Scan# 531
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

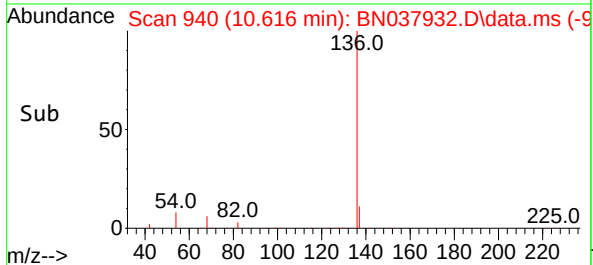
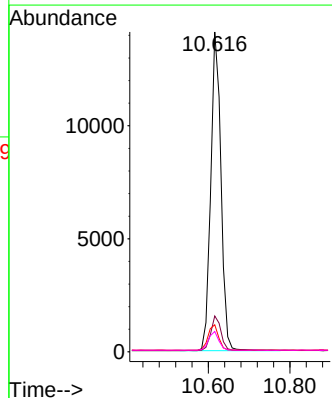
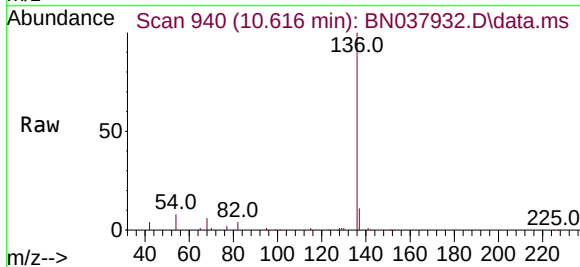
Instrument :
BNA_N
ClientSampleId :
PB169839BL

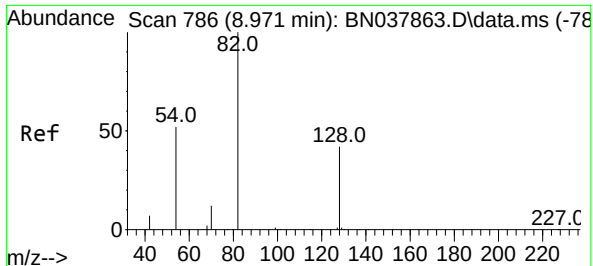
Tgt Ion:	99	Resp:	9742
Ion	Ratio	Lower	Upper
99	100		
42	19.9	17.2	25.8
71	32.8	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 940
Delta R.T. -0.011 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Tgt Ion:	136	Resp:	24367
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	8.4	5.8	8.8
68	6.4	4.3	6.5

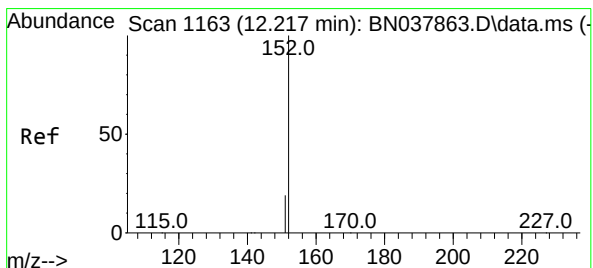
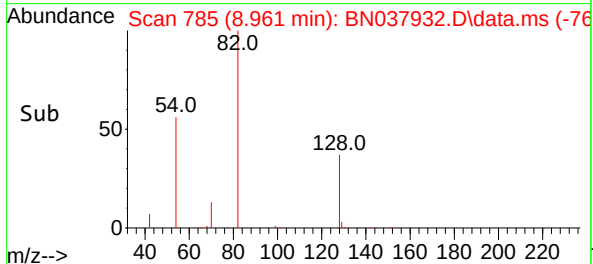
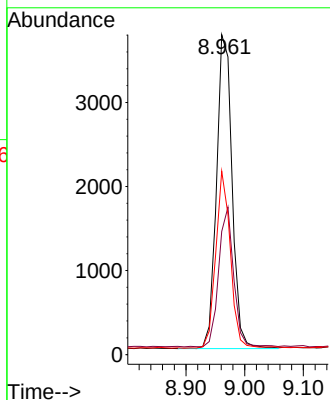
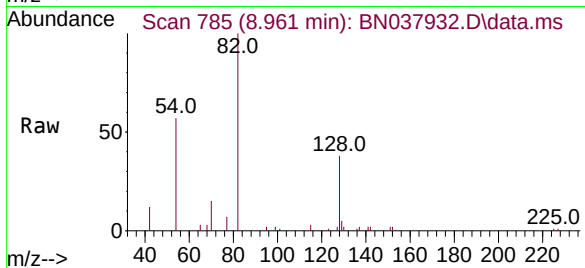




#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.961 min Scan# 786
Delta R.T. -0.011 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

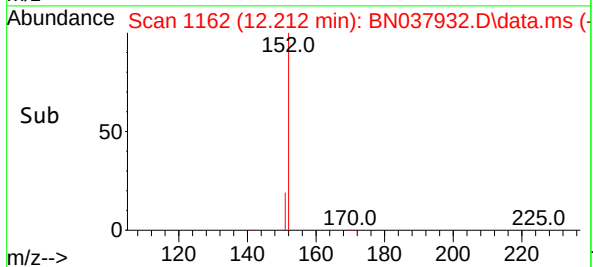
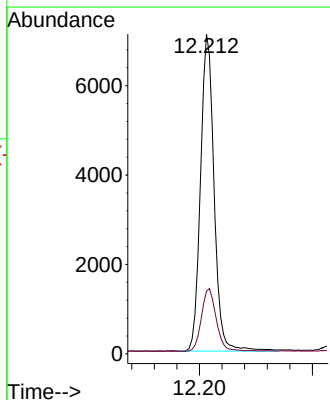
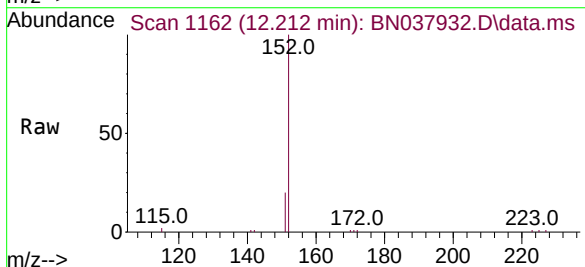
Instrument :
BNA_N
ClientSampleId :
PB169839BL

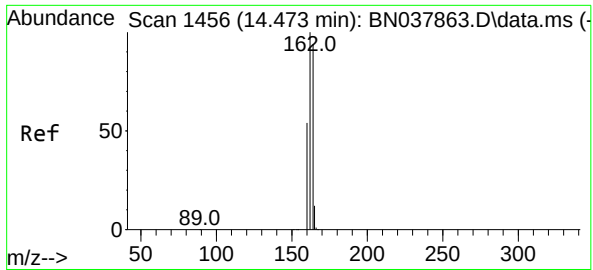
Tgt Ion:	82	Resp:	6911
Ion Ratio	Lower	Upper	
82	100		
128	38.5	34.8	52.2
54	57.3	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Tgt Ion:	152	Resp:	11835
Ion Ratio	Lower	Upper	
152	100		
151	21.6	17.4	26.2

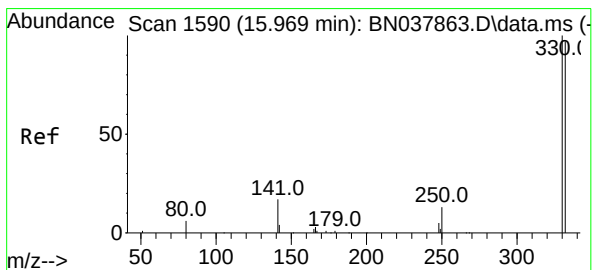
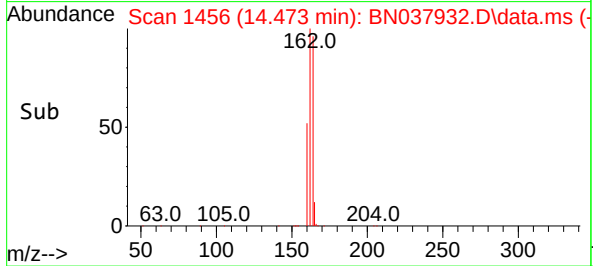
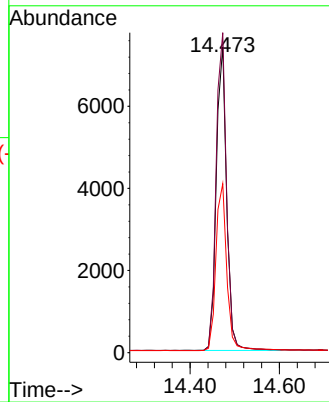
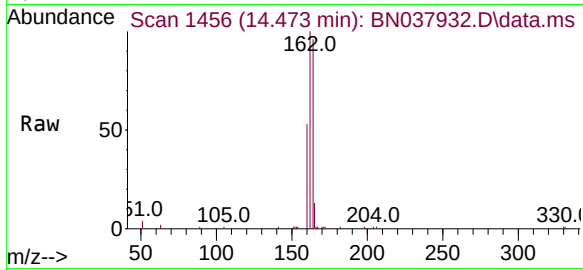




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

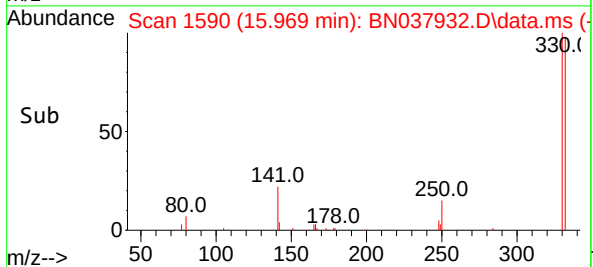
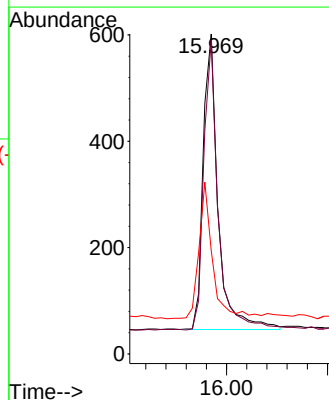
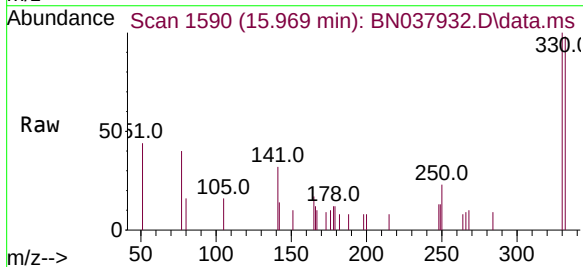
Instrument :
BNA_N
ClientSampleId :
PB169839BL

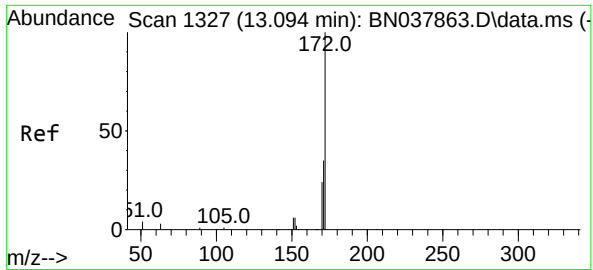
Tgt Ion:	164	Resp:	11932
Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.8	127.2
160	55.2	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.251 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Tgt Ion:	330	Resp:	1137
Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.2	115.8
141	43.0	37.2	55.8

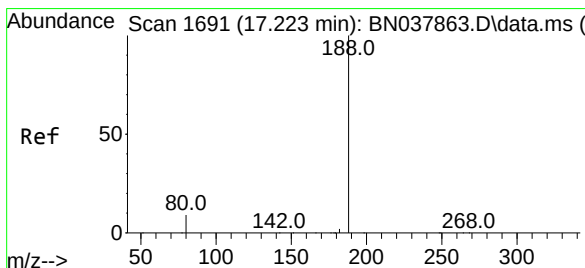
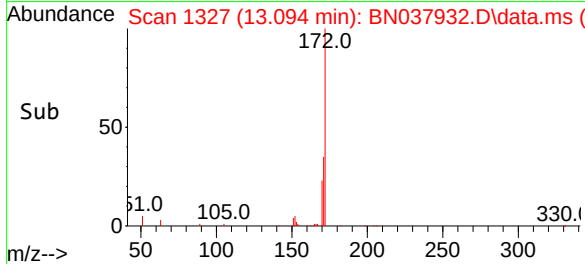
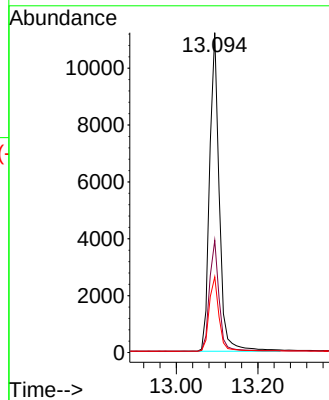
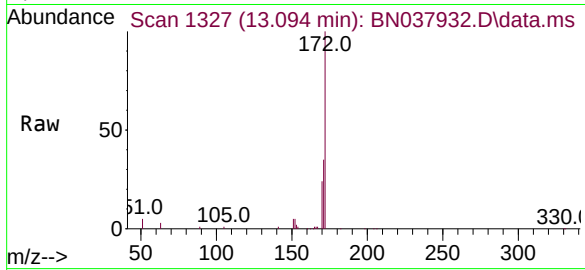




#15
2-Fluorobiphenyl
Concen: 0.377 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

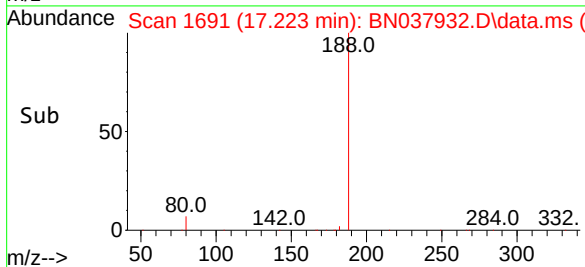
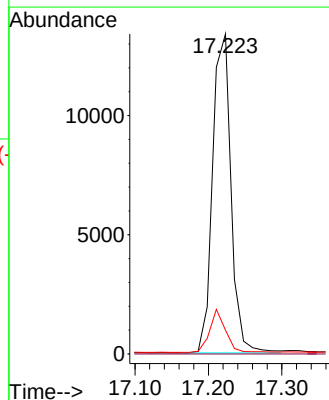
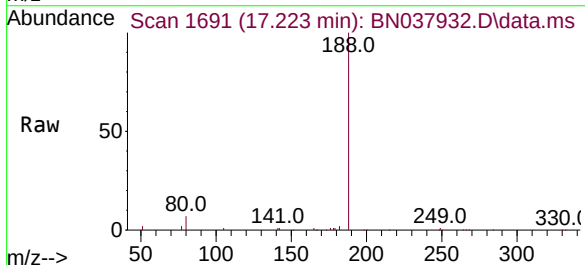
Instrument :
BNA_N
ClientSampleId :
PB169839BL

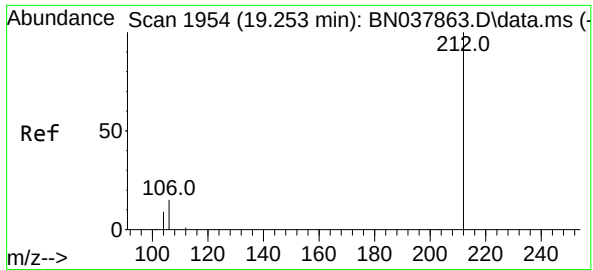
Tgt Ion:	172	Resp:	18416
Ion Ratio	Lower	Upper	
172	100		
171	35.1	28.6	43.0
170	23.7	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037932.D
Acq: 29 Sep 2025 12:06

Tgt Ion:	188	Resp:	23393
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.4	7.6	11.4





#27

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037932.D

Acq: 29 Sep 2025 12:06

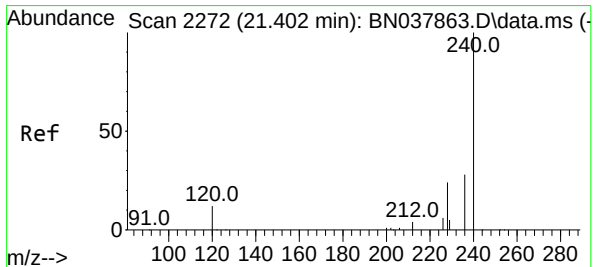
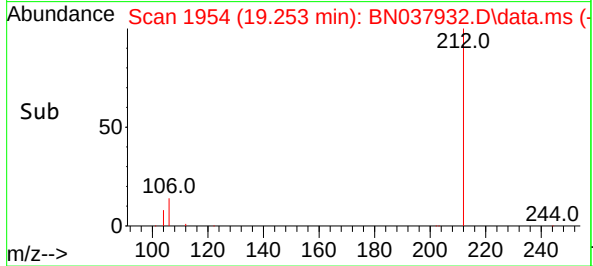
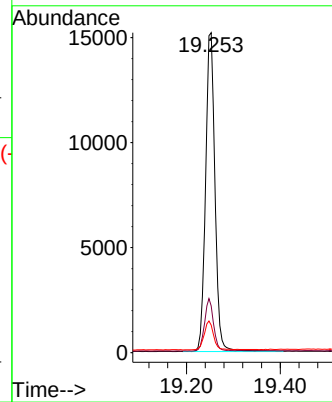
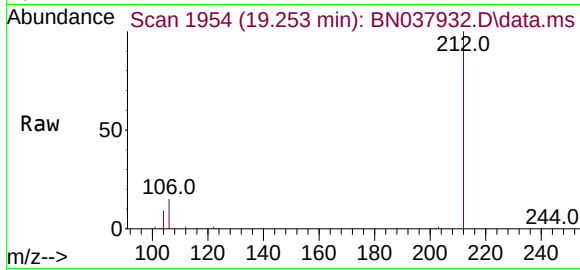
Instrument :

BNA_N

ClientSampleId :

PB169839BL

Tgt Ion:	212	Resp:	21125
Ion Ratio	Lower	Upper	
212	100		
106	15.7	12.6	19.0
104	9.0	7.4	11.0



#29

Chrysene-d12

Concen: 0.400 ng

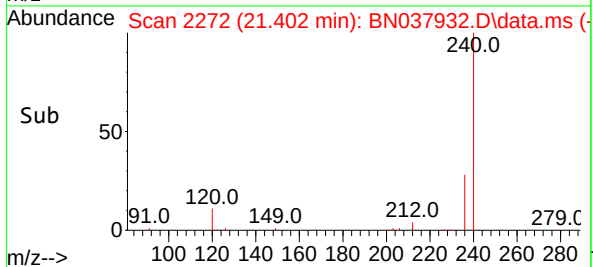
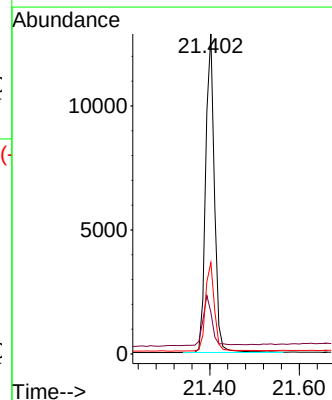
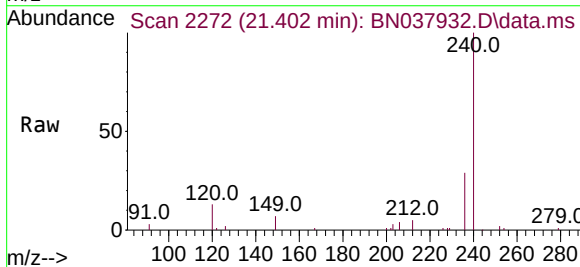
RT: 21.402 min Scan# 2272

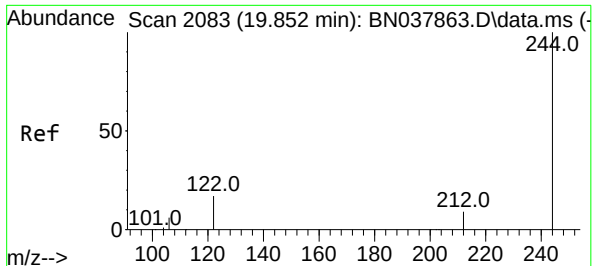
Delta R.T. 0.000 min

Lab File: BN037932.D

Acq: 29 Sep 2025 12:06

Tgt Ion:	240	Resp:	17581
Ion Ratio	Lower	Upper	
240	100		
120	13.0	11.4	17.2
236	28.5	23.0	34.6





#31

Terphenyl-d14

Concen: 0.426 ng

RT: 19.847 min Scan# 2082

Delta R.T. -0.005 min

Lab File: BN037932.D

Acq: 29 Sep 2025 12:06

Instrument :

BNA_N

ClientSampleId :

PB169839BL

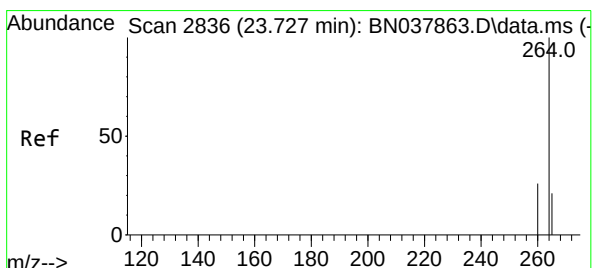
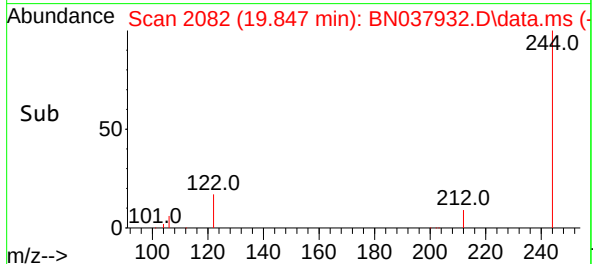
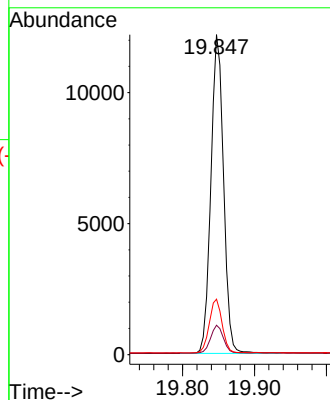
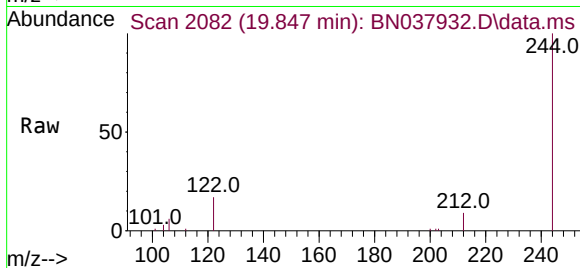
Tgt Ion:244 Resp: 14935

Ion Ratio Lower Upper

244 100

212 9.2 7.6 11.4

122 17.3 13.9 20.9



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.724 min Scan# 2835

Delta R.T. -0.003 min

Lab File: BN037932.D

Acq: 29 Sep 2025 12:06

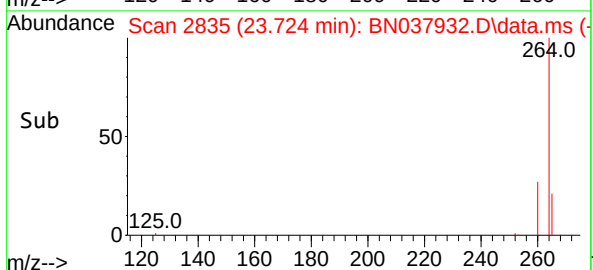
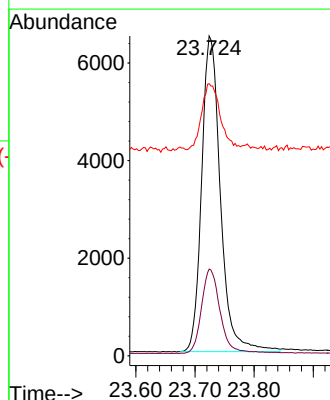
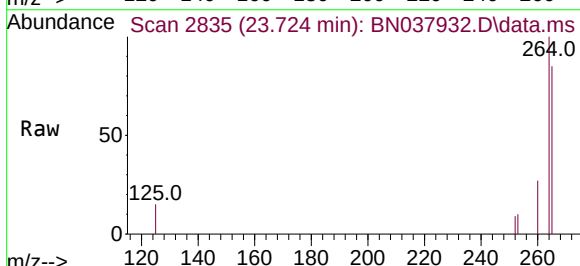
Tgt Ion:264 Resp: 14270

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 85.1 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169839BS	SDG No.:	Q3165
Lab Sample ID:	PB169839BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037933.D	1	09/25/25 11:00	09/29/25 12:43	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7500	7.818				
1146-65-2	Naphthalene-d8	21000	10.616				
15067-26-2	Acenaphthene-d10	11000	14.473				
1517-22-2	Phenanthrene-d10	21500	17.211				
1719-03-5	Chrysene-d12	19400	21.402				
1520-96-3	Perylene-d12	18000	23.727				

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\BN092925\
 Data File : BN037933.D
 Acq On : 29 Sep 2025 12:43
 Operator : RC/JU
 Sample : PB169839BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169839BS

Quant Time: Sep 29 13:08:38 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

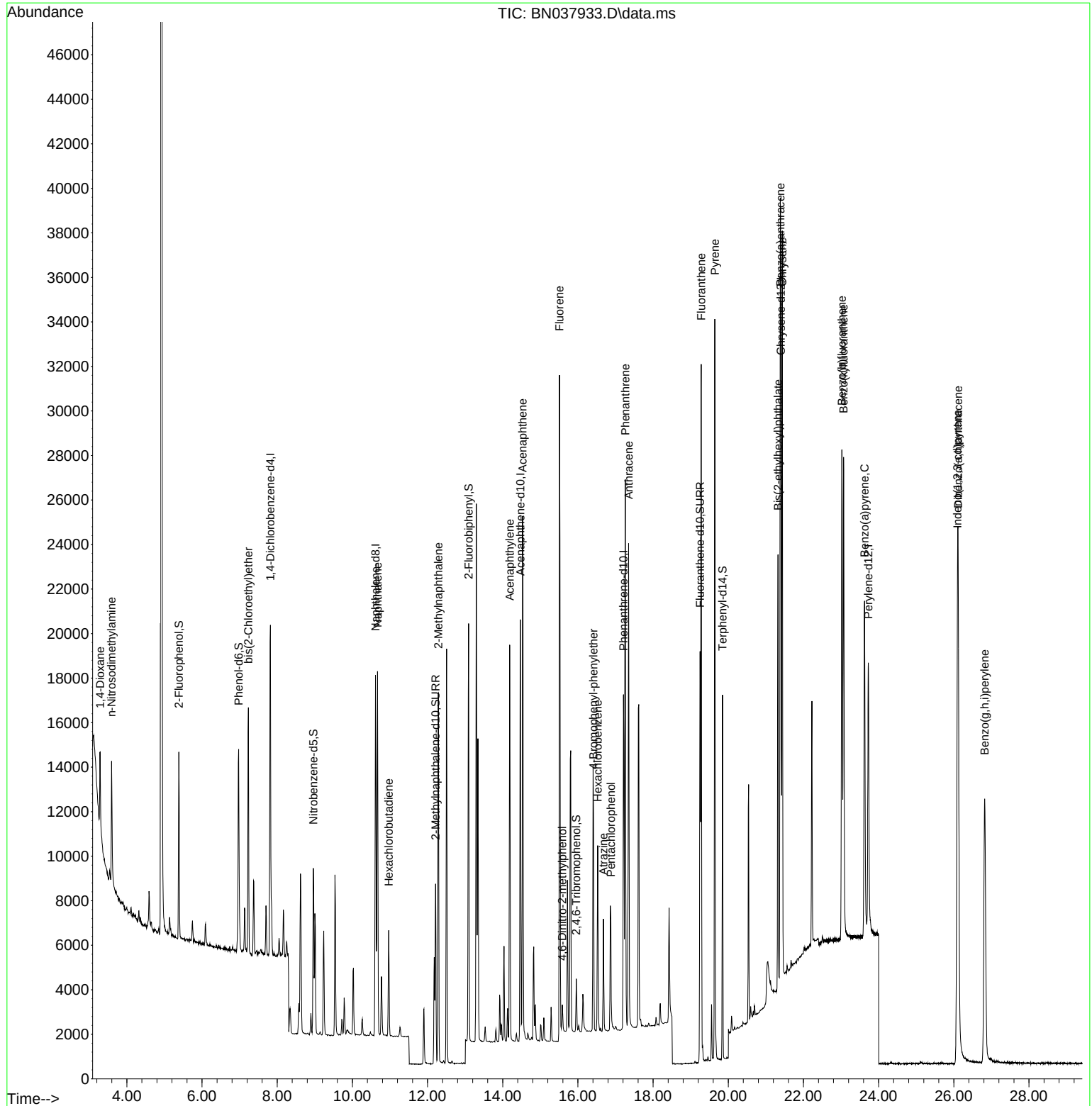
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7496	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	21013	0.400	ng	-0.01
13) Acenaphthene-d10	14.473	164	10987	0.400	ng	0.00
19) Phenanthrene-d10	17.211	188	21519	0.400	ng	#-0.01
29) Chrysene-d12	21.402	240	19399	0.400	ng	0.00
35) Perylene-d12	23.727	264	17959	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	6580	0.385	ng	0.00
5) Phenol-d6	6.973	99	8417	0.374	ng	0.00
8) Nitrobenzene-d5	8.961	82	5880	0.367	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	10667	0.365	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	1338	0.321	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	16575	0.368	ng	0.00
27) Fluoranthene-d10	19.248	212	19838	0.366	ng	0.00
31) Terphenyl-d14	19.847	244	14667	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	2347	0.308	ng	# 62
3) n-Nitrosodimethylamine	3.593	42	3440	0.340	ng	# 90
6) bis(2-Chloroethyl)ether	7.233	93	7882	0.378	ng	99
9) Naphthalene	10.669	128	21161	0.366	ng	99
10) Hexachlorobutadiene	10.968	225	3766	0.381	ng	# 100
12) 2-Methylnaphthalene	12.288	142	12254	0.324	ng	98
16) Acenaphthylene	14.184	152	19486	0.391	ng	99
17) Acenaphthene	14.527	154	12157	0.342	ng	99
18) Fluorene	15.510	166	14936	0.347	ng	99
20) 4,6-Dinitro-2-methylph...	15.585	198	848	0.374	ng	# 59
21) 4-Bromophenyl-phenylether	16.416	248	5084	0.363	ng	# 86
22) Hexachlorobenzene	16.528	284	6200	0.365	ng	99
23) Atrazine	16.677	200	3622	0.339	ng	# 93
24) Pentachlorophenol	16.875	266	3196	0.548	ng	96
25) Phenanthrene	17.260	178	26185	0.370	ng	98
26) Anthracene	17.347	178	22740	0.370	ng	100
28) Fluoranthene	19.280	202	27941	0.358	ng	100
30) Pyrene	19.643	202	29825	0.389	ng	100
32) Benzo(a)anthracene	21.384	228	26474	0.390	ng	99
33) Chrysene	21.438	228	28240	0.385	ng	98
34) Bis(2-ethylhexyl)phtha...	21.322	149	10007	0.373	ng	99
36) Indeno(1,2,3-cd)pyrene	26.098	276	32759	0.399	ng	99
37) Benzo(b)fluoranthene	23.022	252	28791	0.372	ng	99
38) Benzo(k)fluoranthene	23.069	252	29787	0.382	ng	100
39) Benzo(a)pyrene	23.625	252	24347	0.397	ng	99
40) Dibenzo(a,h)anthracene	26.116	278	25489	0.398	ng	100
41) Benzo(g,h,i)perylene	26.820	276	26880	0.399	ng	99

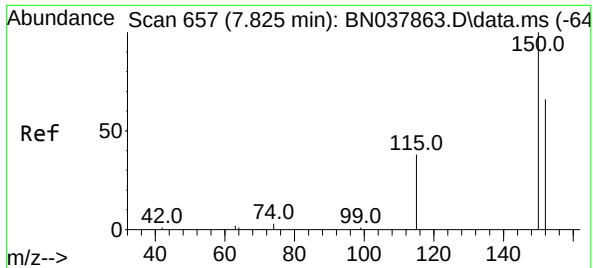
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037933.D
Acq On : 29 Sep 2025 12:43
Operator : RC/JU
Sample : PB169839BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169839BS

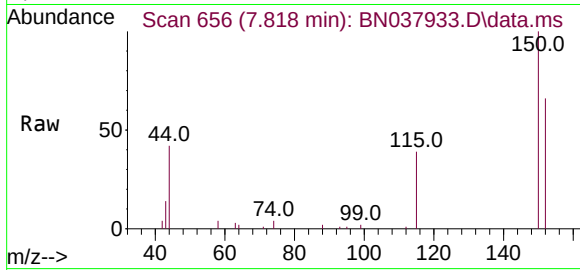
Quant Time: Sep 29 13:08:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



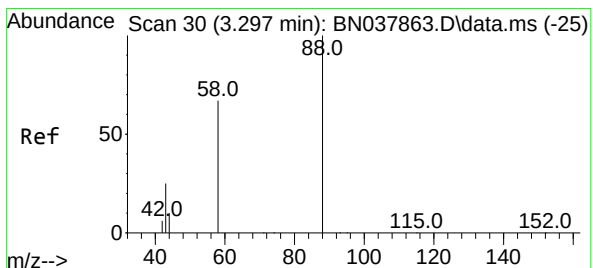
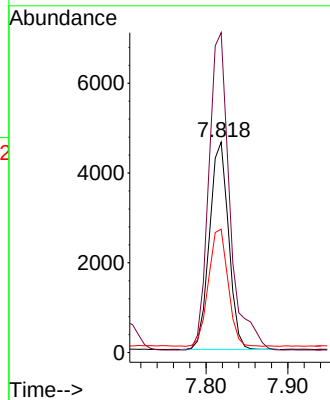
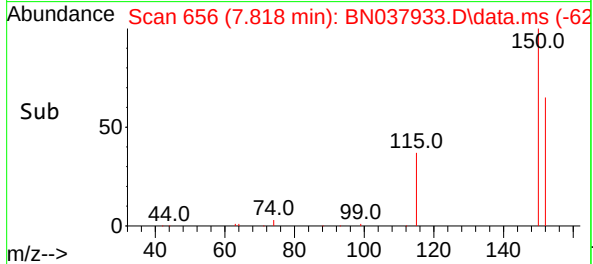


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

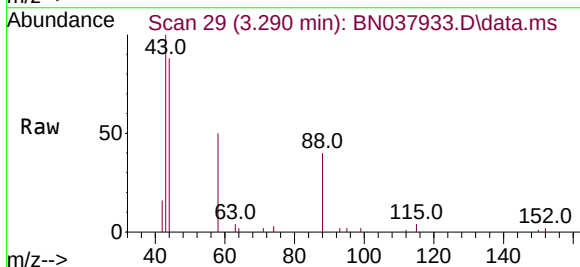
Instrument :
BNA_N
ClientSampleId :
PB169839BS



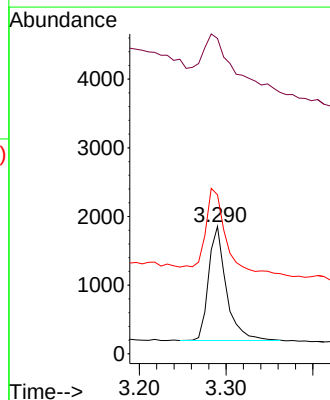
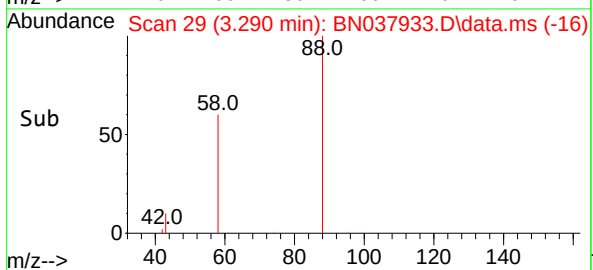
Tgt Ion:152 Resp: 7496
Ion Ratio Lower Upper
152 100
150 152.0 121.0 181.4
115 58.6 47.4 71.0

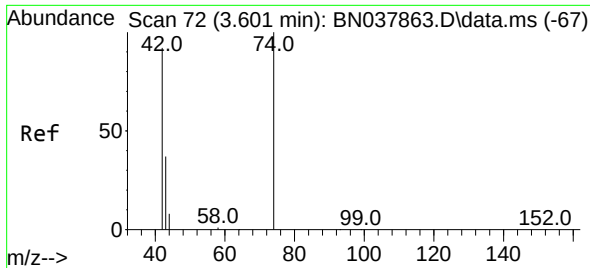


#2
1,4-Dioxane
Concen: 0.308 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43



Tgt Ion: 88 Resp: 2347
Ion Ratio Lower Upper
88 100
43 89.0 26.6 39.8#
58 82.5 58.9 88.3

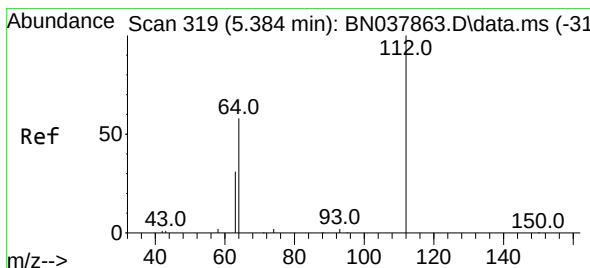
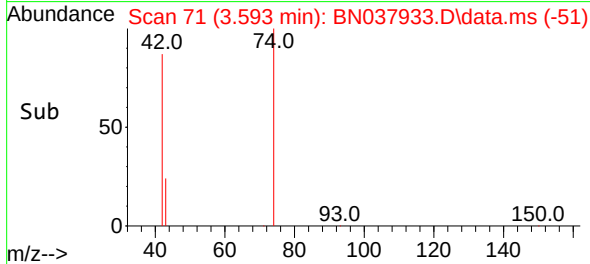
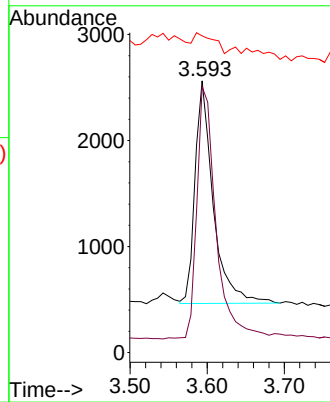
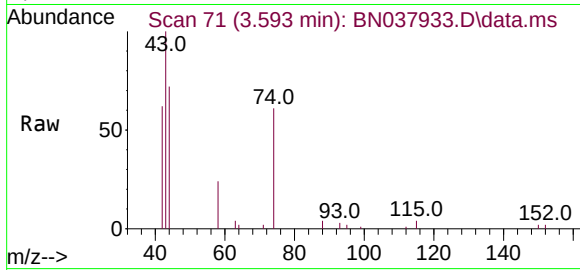




#3
n-Nitrosodimethylamine
Concen: 0.340 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

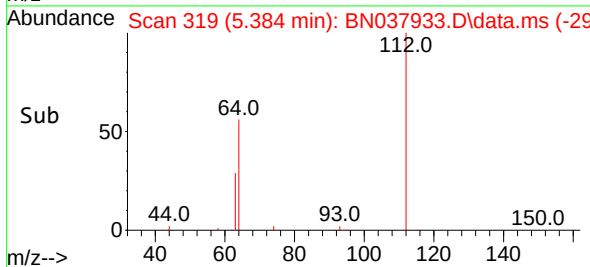
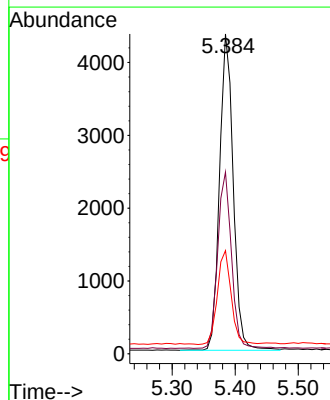
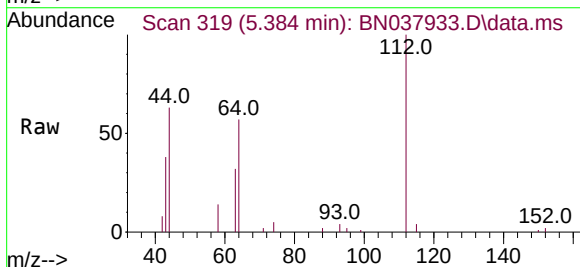
Instrument :
BNA_N
ClientSampleId :
PB169839BS

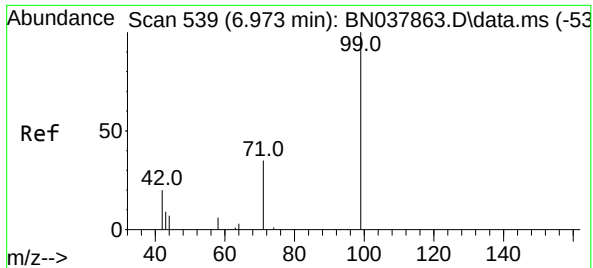
Tgt Ion: 42 Resp: 3440
Ion Ratio Lower Upper
42 100
74 119.2 93.4 140.0
44 6.7 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.385 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion: 112 Resp: 6580
Ion Ratio Lower Upper
112 100
64 56.0 44.6 66.8
63 29.8 24.9 37.3

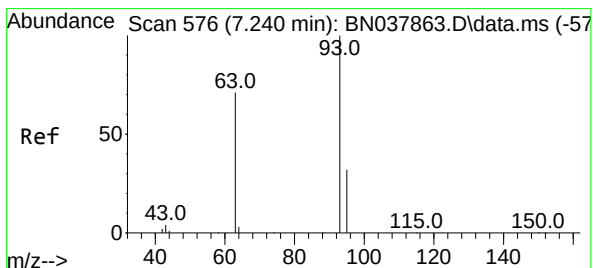
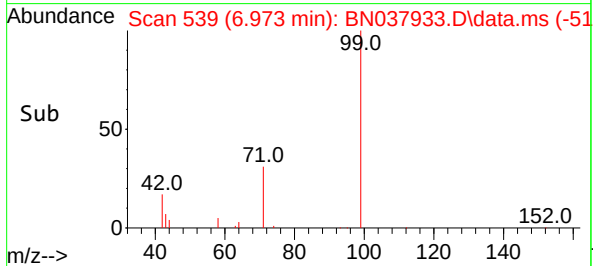
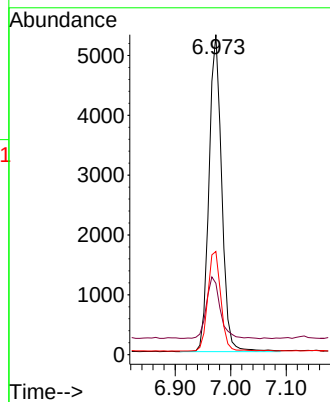
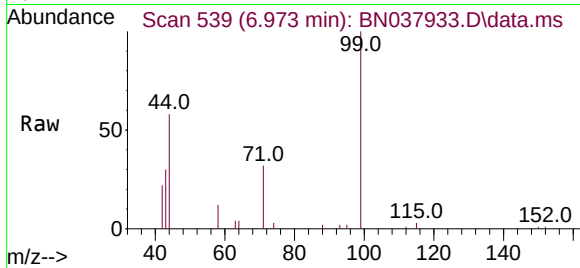




#5
Phenol-d6
Concen: 0.374 ng
RT: 6.973 min Scan# 531
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

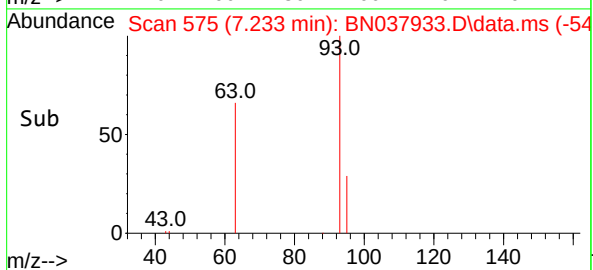
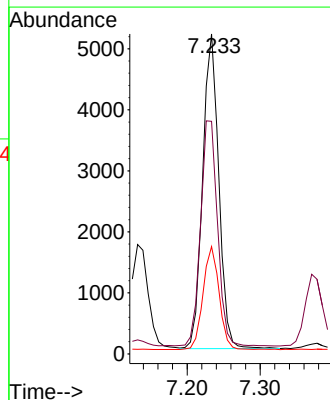
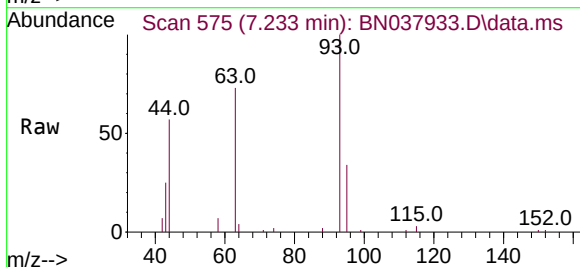
Instrument :
BNA_N
ClientSampleId :
PB169839BS

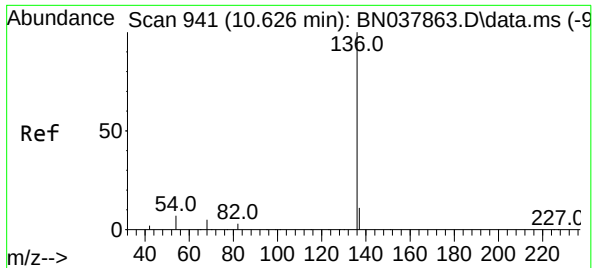
Tgt Ion:	99	Resp:	8417
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	32.4	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.378 ng
RT: 7.233 min Scan# 575
Delta R.T. -0.007 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:	93	Resp:	7882
Ion	Ratio	Lower	Upper
93	100		
63	75.6	60.1	90.1
95	32.6	25.4	38.2

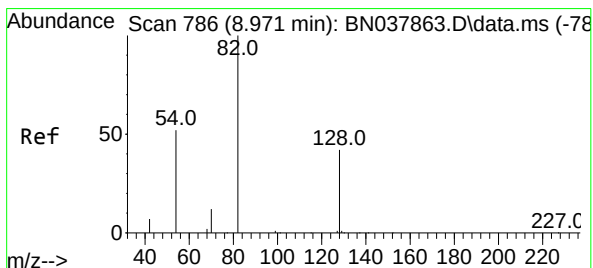
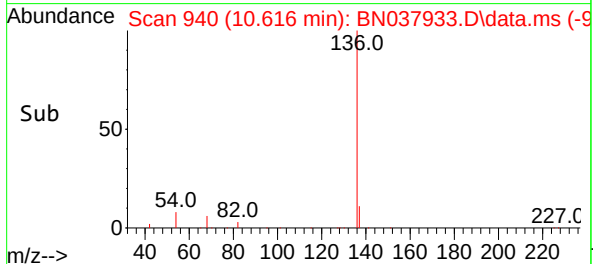
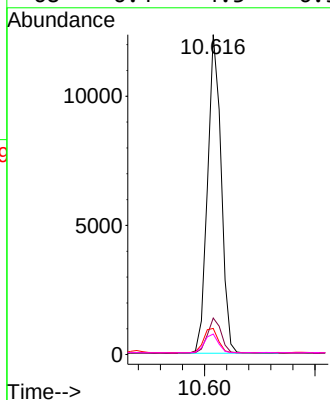
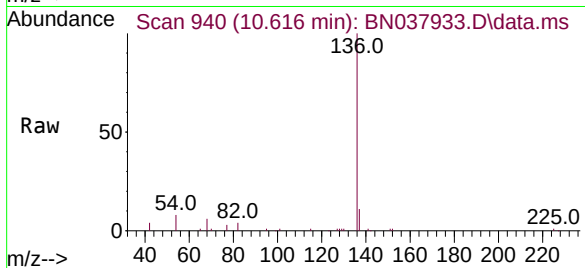




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

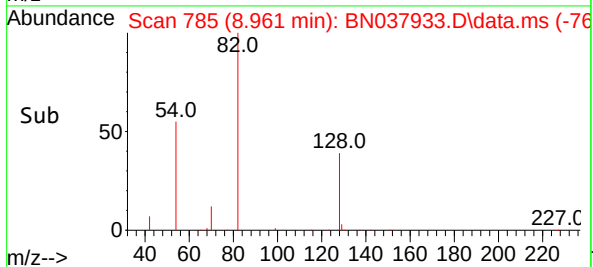
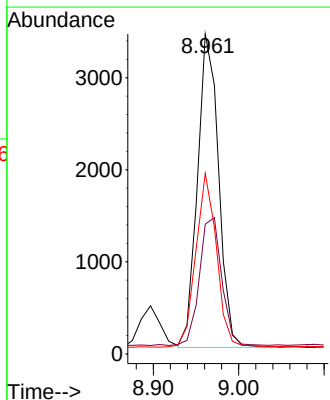
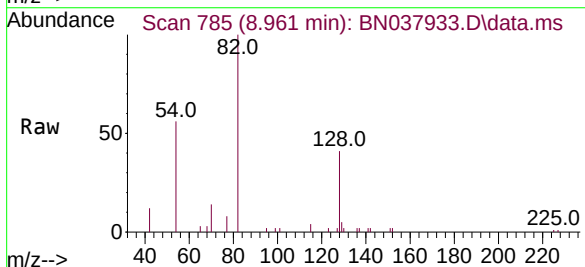
Instrument :
BNA_N
ClientSampleId :
PB169839BS

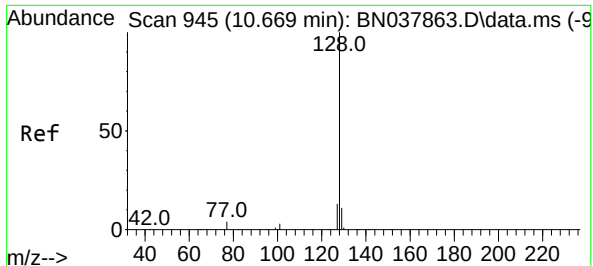
Tgt Ion:	136	Resp:	21013
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	8.2	5.8	8.8
68	6.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:	82	Resp:	5880
Ion	Ratio	Lower	Upper
82	100		
128	40.5	34.8	52.2
54	56.4	42.2	63.2

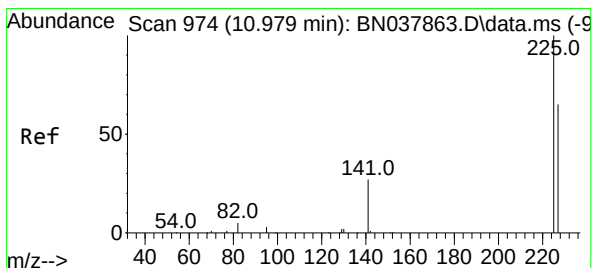
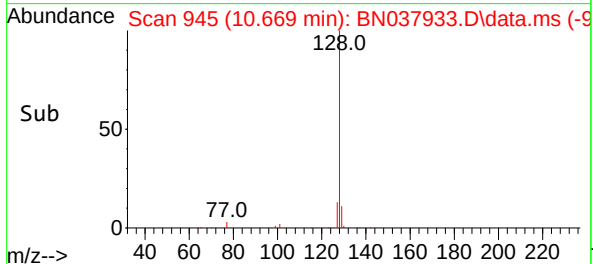
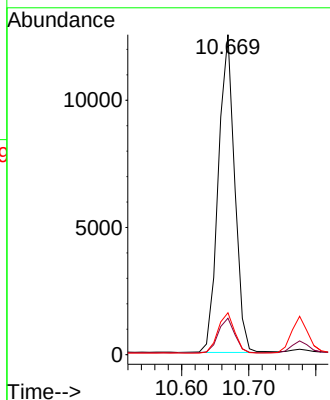
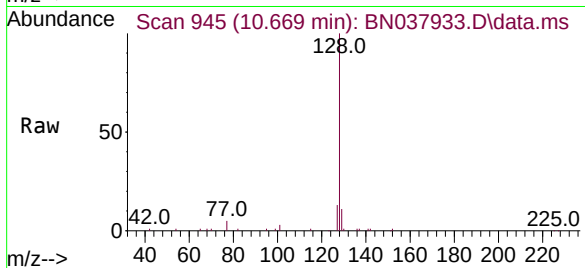




#9
Naphthalene
Concen: 0.366 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

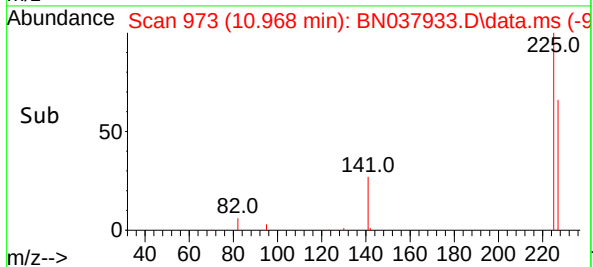
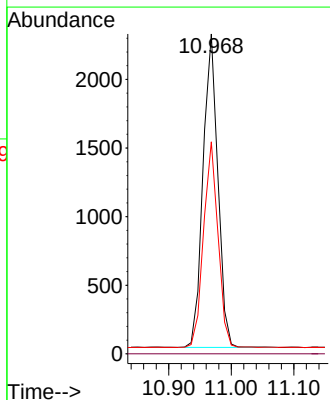
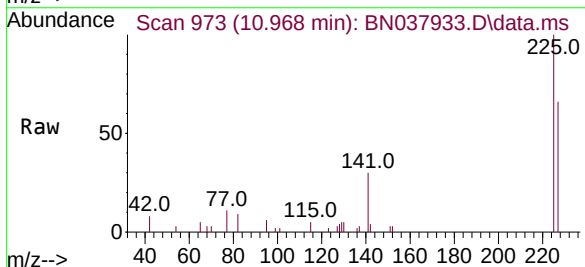
Instrument :
BNA_N
ClientSampleId :
PB169839BS

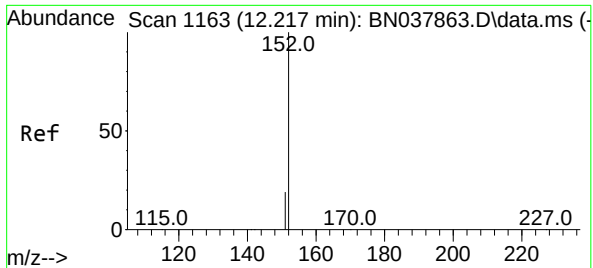
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.381 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.4	77.2

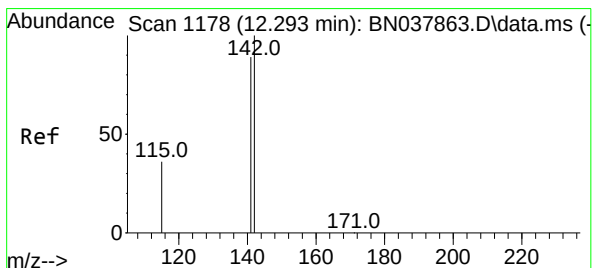
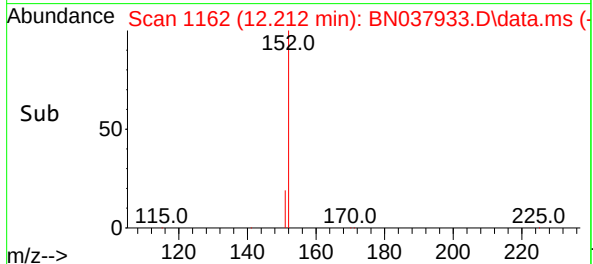
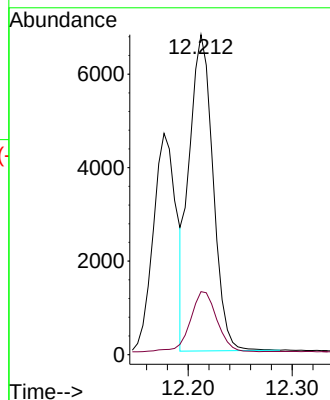
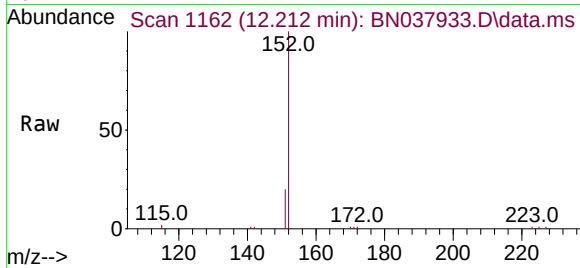




#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

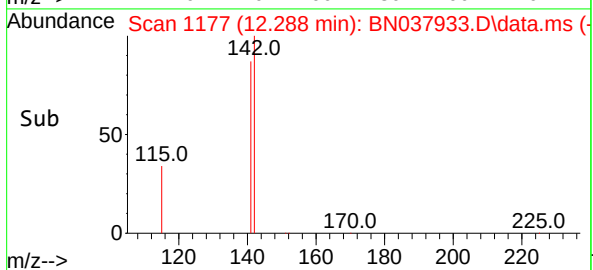
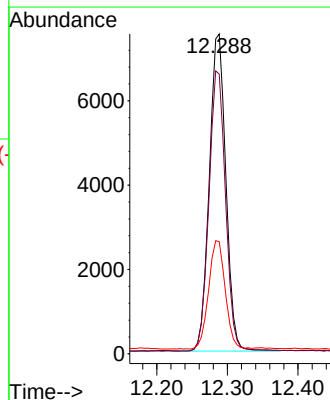
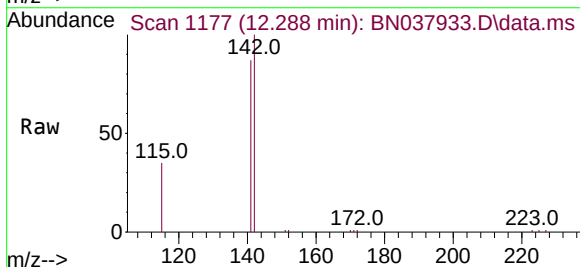
Instrument :
BNA_N
ClientSampleId :
PB169839BS

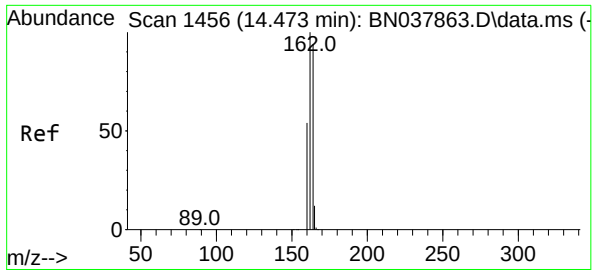
Tgt Ion:152 Resp: 10667
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.324 ng
RT: 12.288 min Scan# 1177
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:142 Resp: 12254
Ion Ratio Lower Upper
142 100
141 87.4 71.2 106.8
115 35.1 29.7 44.5

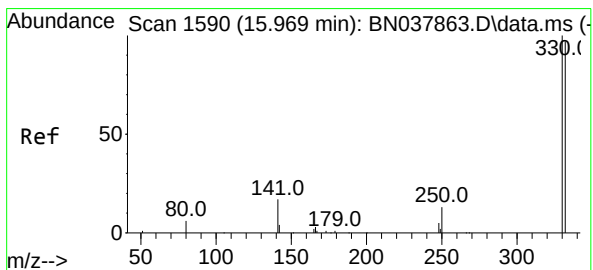
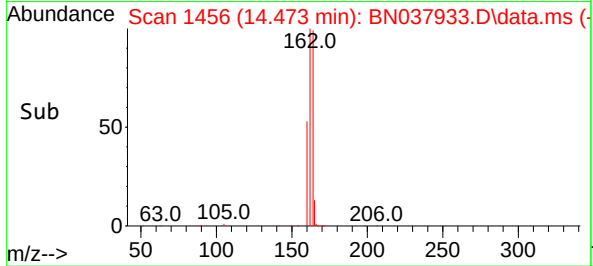
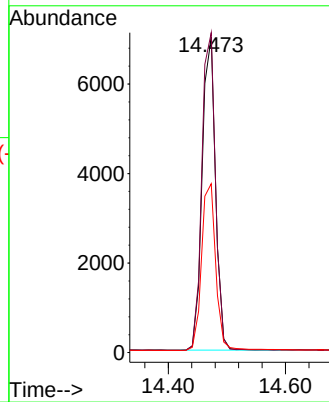
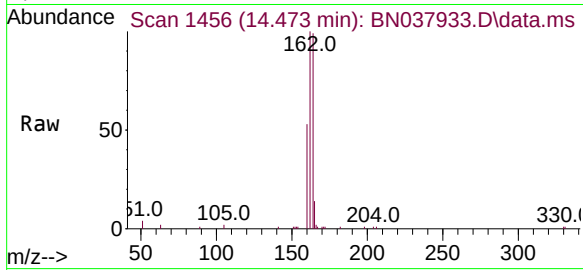




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

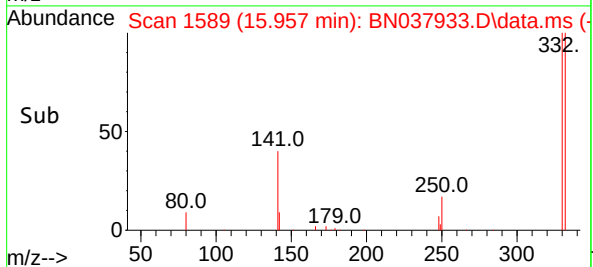
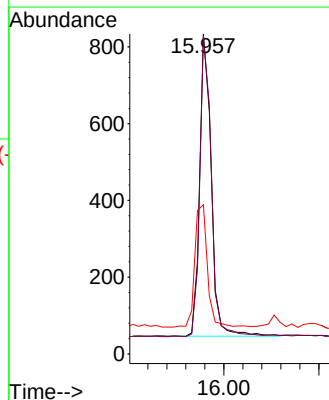
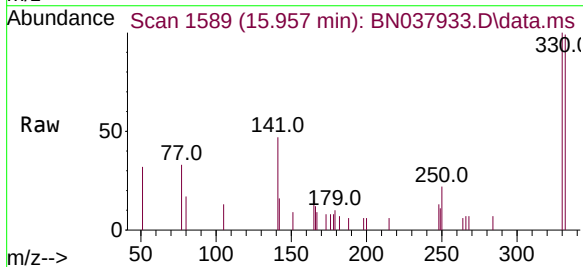
Instrument :
BNA_N
ClientSampleId :
PB169839BS

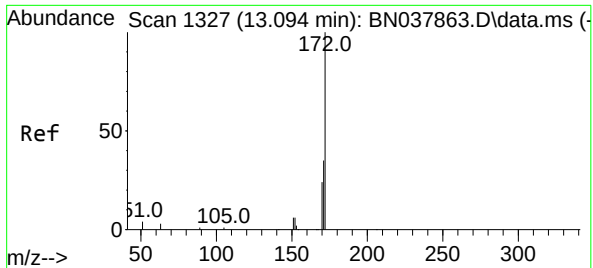
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	84.8	127.2
160	53.5	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.6	77.2	115.8
141	43.9	37.2	55.8

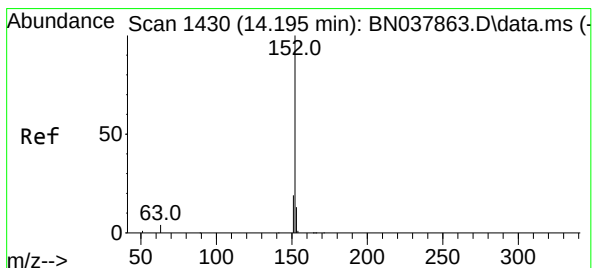
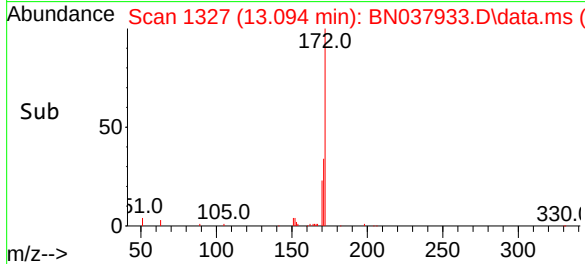
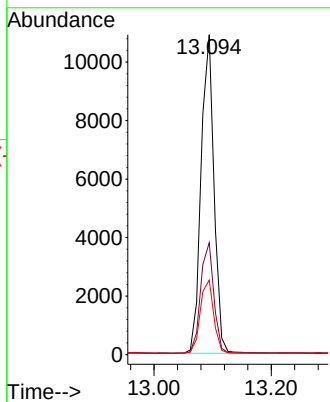
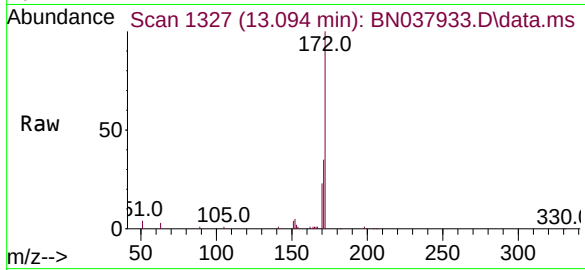




#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

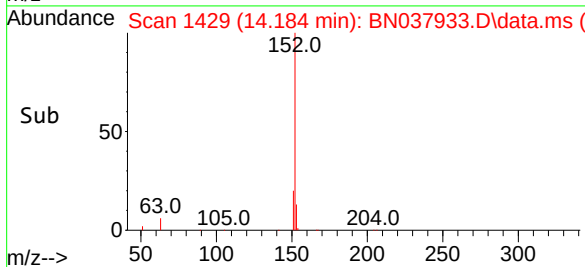
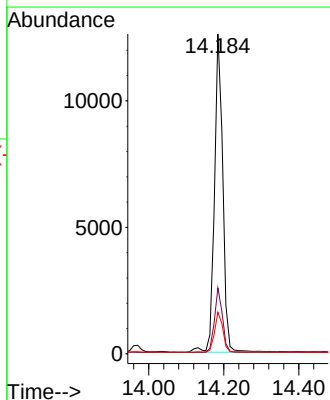
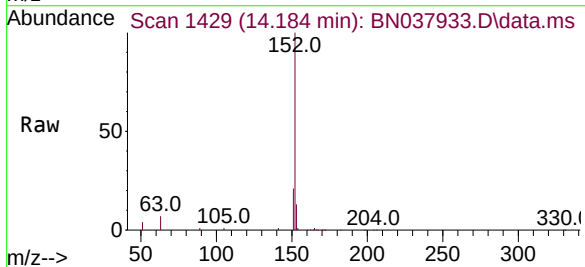
Instrument :
BNA_N
ClientSampleId :
PB169839BS

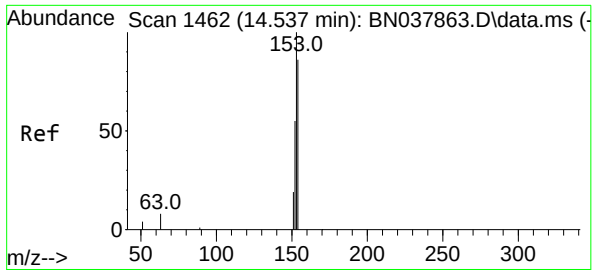
Tgt Ion:	172	Resp:	16575
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.6	43.0
170	23.3	19.7	29.5



#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.184 min Scan# 1429
Delta R.T. -0.011 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:	152	Resp:	19486
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.8
153	12.6	10.5	15.7

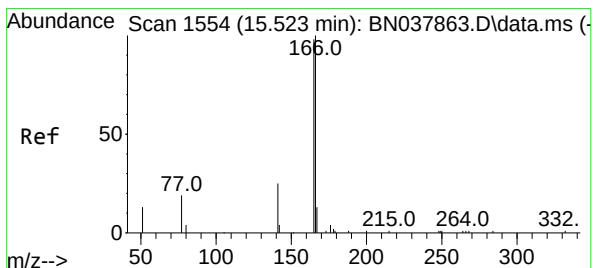
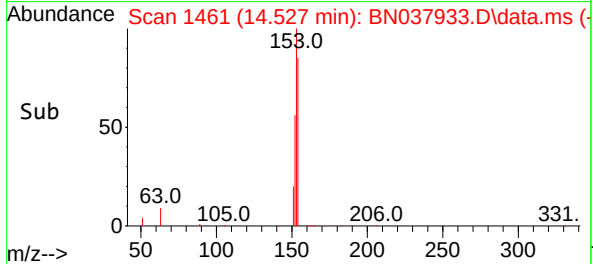
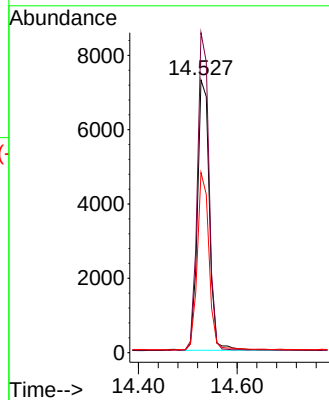
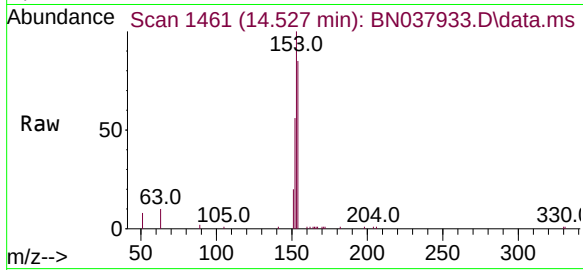




#17
Acenaphthene
Concen: 0.342 ng
RT: 14.527 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

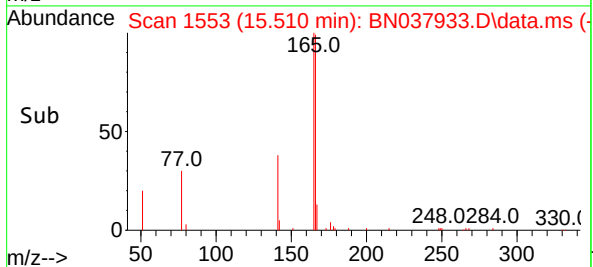
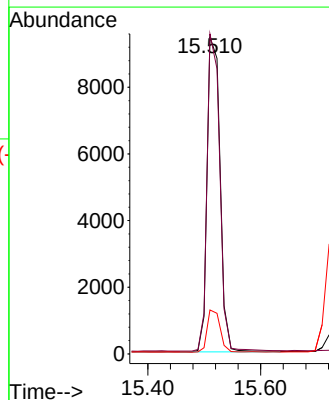
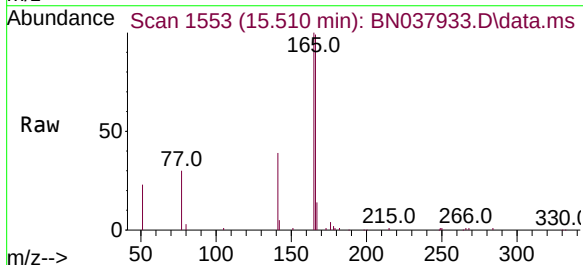
Instrument :
BNA_N
ClientSampleId :
PB169839BS

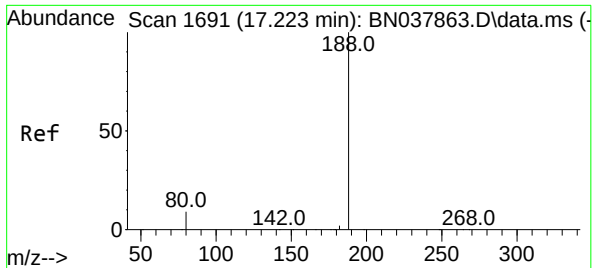
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	90.5	135.7
152	64.5	51.8	77.8



#18
Fluorene
Concen: 0.347 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.0	118.4
167	13.4	10.6	16.0

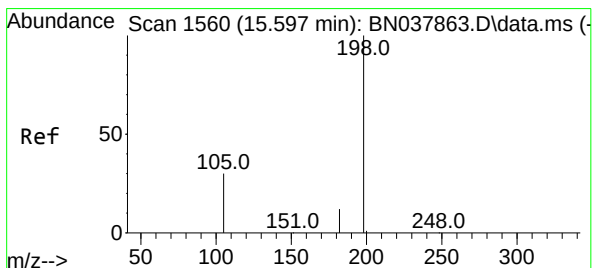
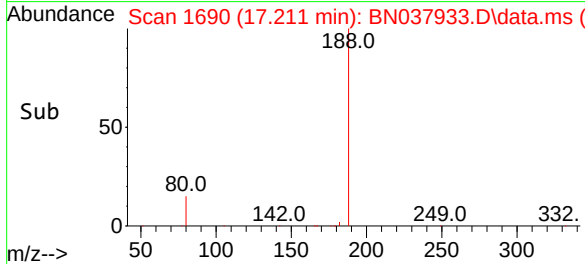
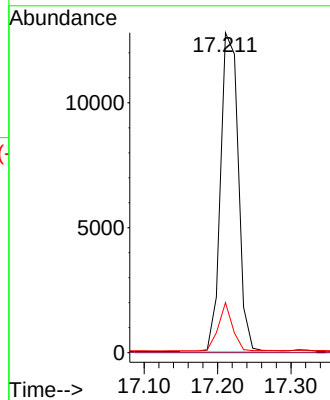
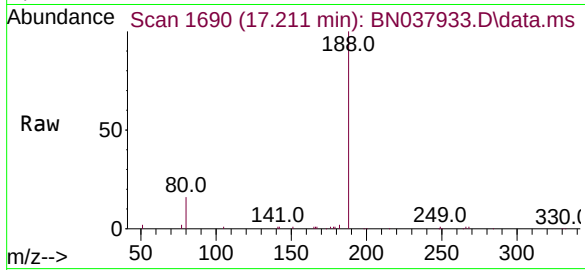




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.211 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

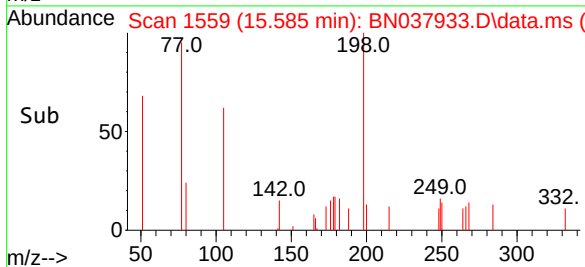
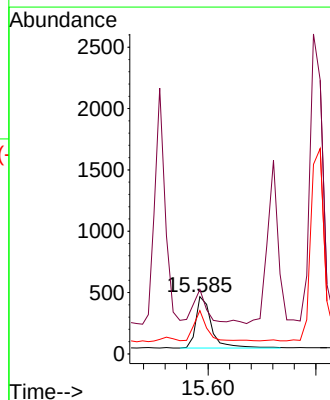
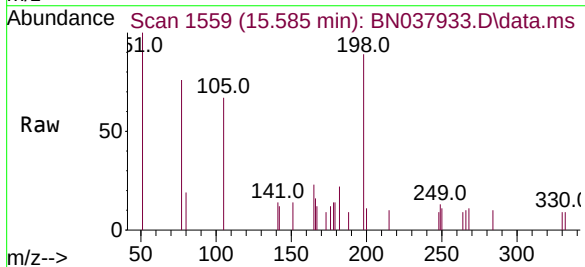
Instrument :
BNA_N
ClientSampleId :
PB169839BS

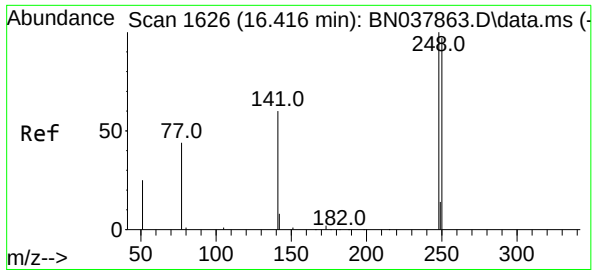
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	7.6	11.4#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.374 ng
RT: 15.585 min Scan# 1559
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
198	100		
51	112.4	59.1	88.7#
105	75.6	41.3	61.9#

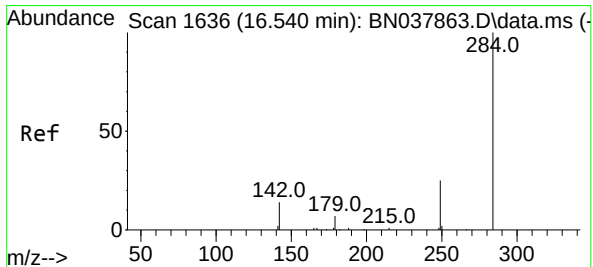
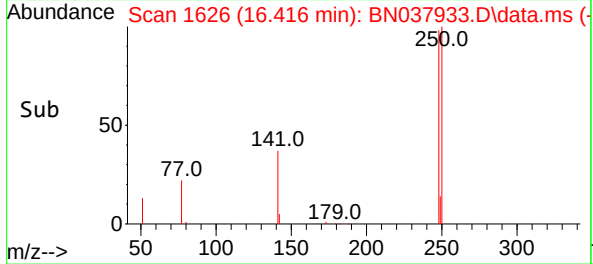
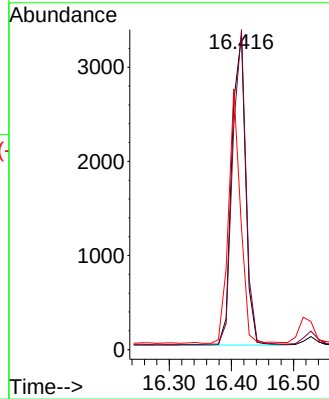
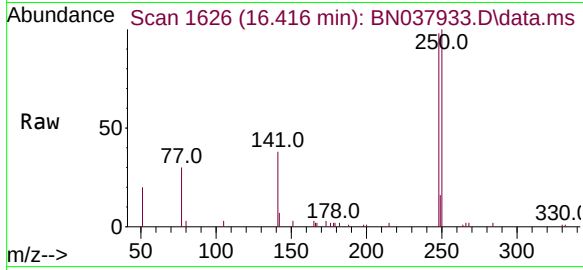




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

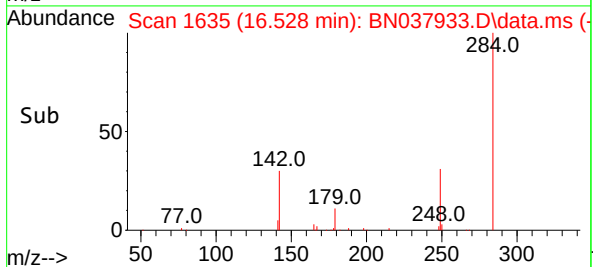
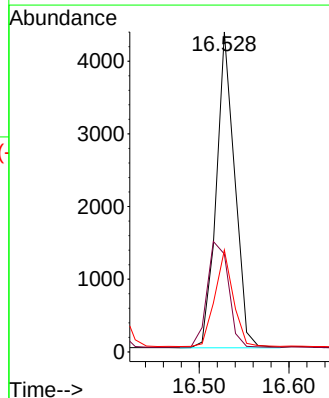
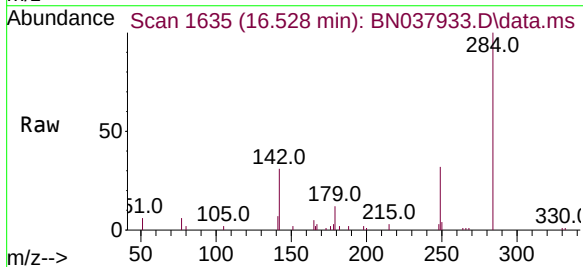
Instrument :
BNA_N
ClientSampleId :
PB169839BS

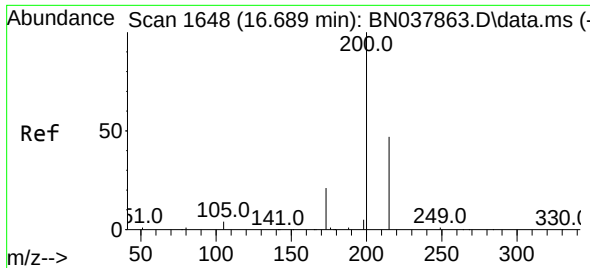
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.0	77.6	116.4
141	38.7	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	31.0	23.9	35.9

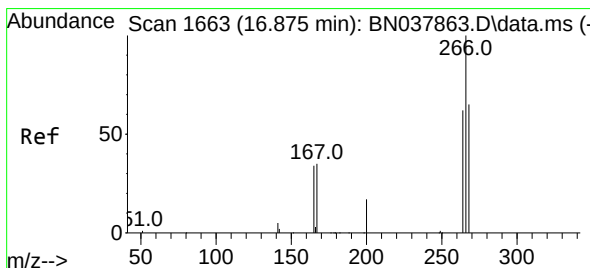
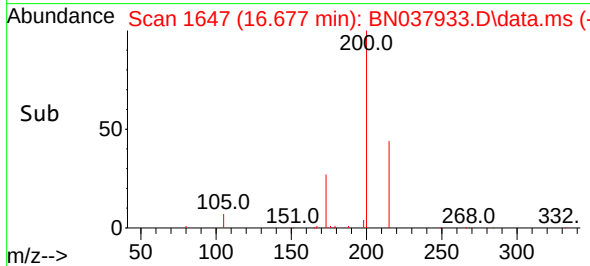
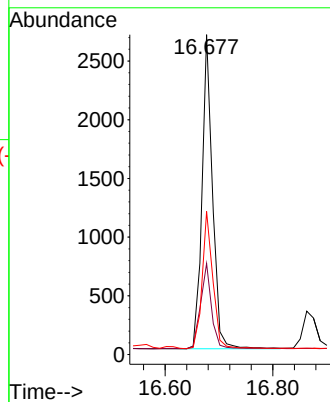
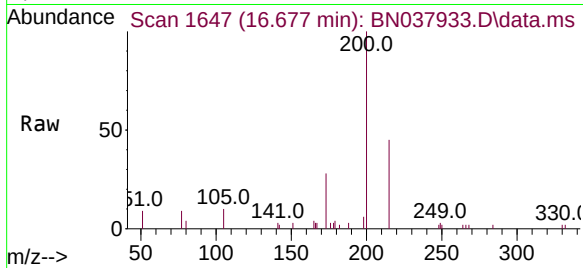




#23
Atrazine
Concen: 0.339 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

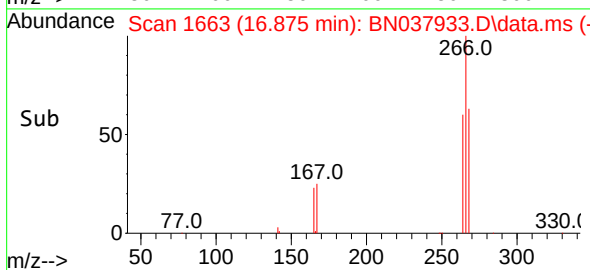
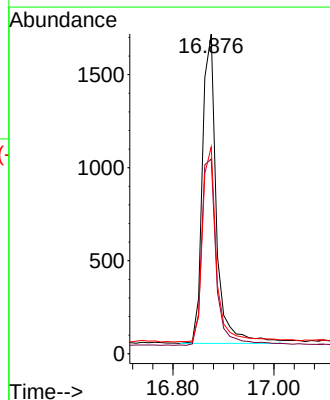
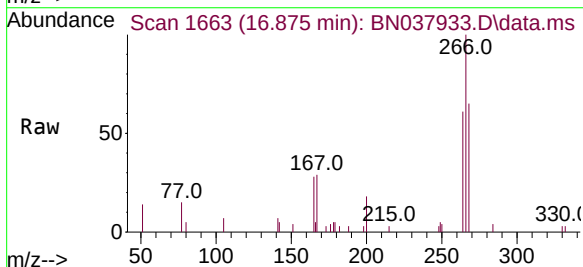
Instrument :
BNA_N
ClientSampleId :
PB169839BS

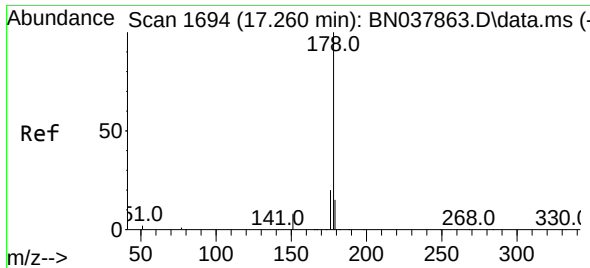
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.5	18.3	27.5#
215	44.7	38.6	58.0



#24
Pentachlorophenol
Concen: 0.548 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.9	76.3
268	63.0	54.3	81.5

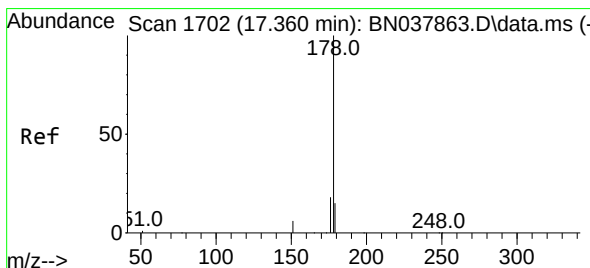
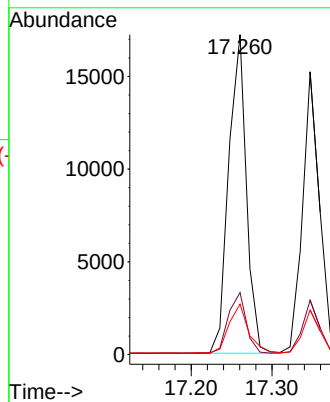
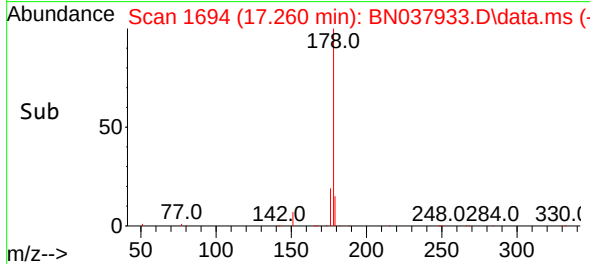
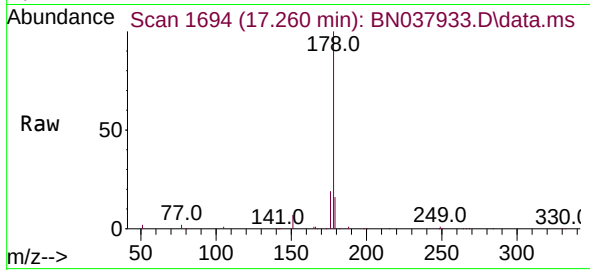




#25
Phenanthrene
Concen: 0.370 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

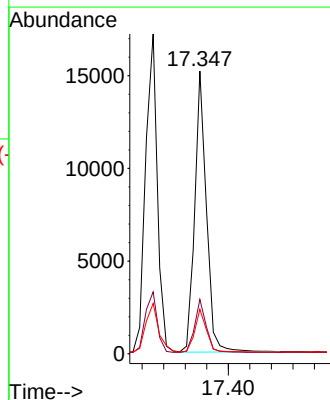
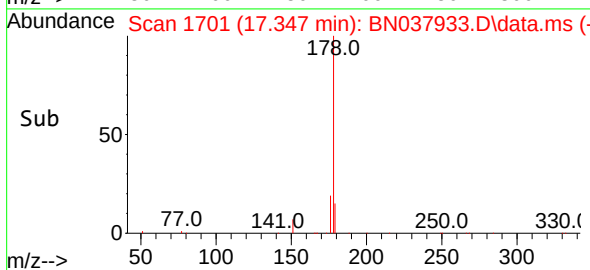
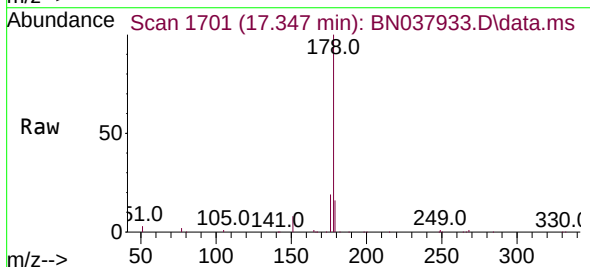
Instrument :
BNA_N
ClientSampleId :
PB169839BS

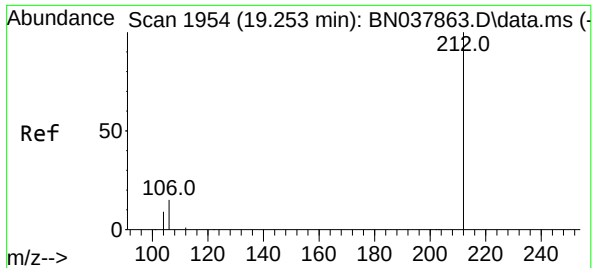
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	17.0	12.3	18.5



#26
Anthracene
Concen: 0.370 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

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

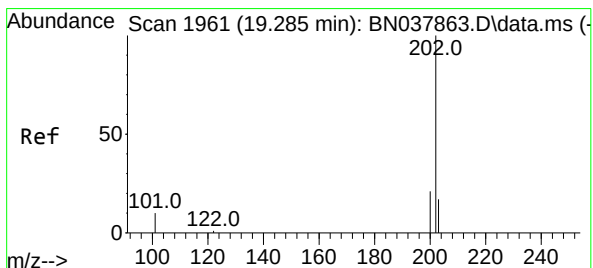
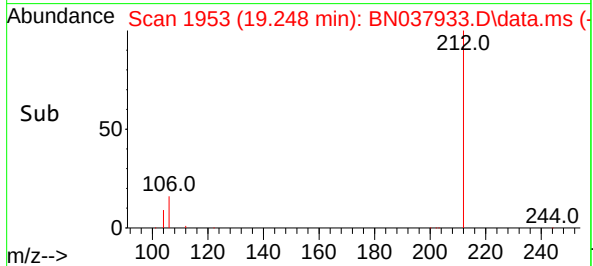
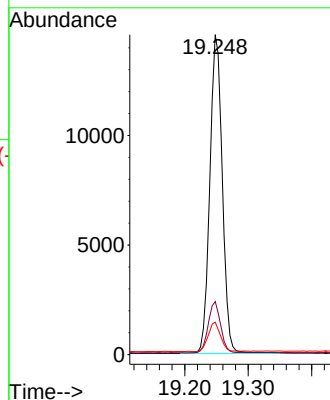
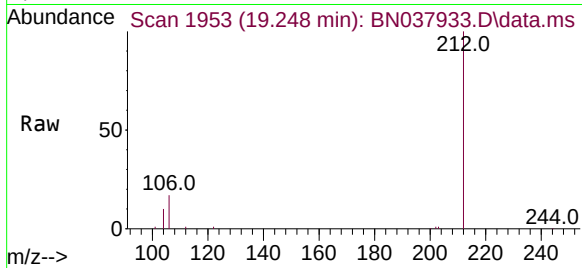




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 19.248 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

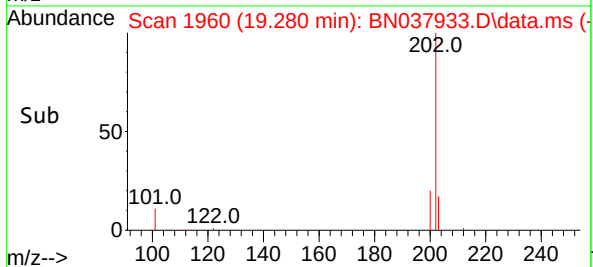
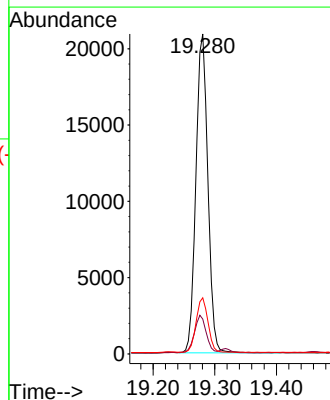
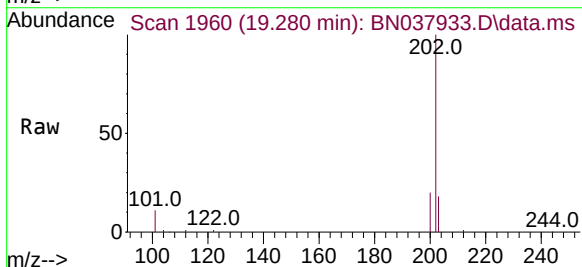
Instrument :
BNA_N
ClientSampleId :
PB169839BS

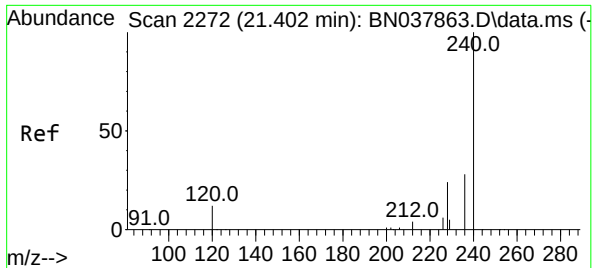
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.1	7.4	11.0



#28
Fluoranthene
Concen: 0.358 ng
RT: 19.280 min Scan# 1960
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

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

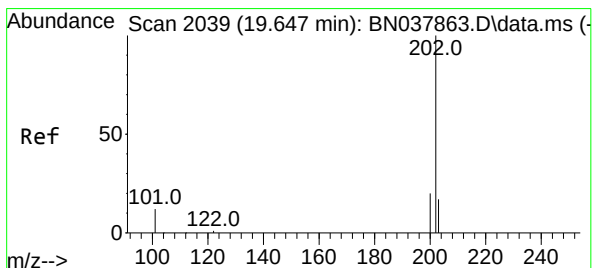
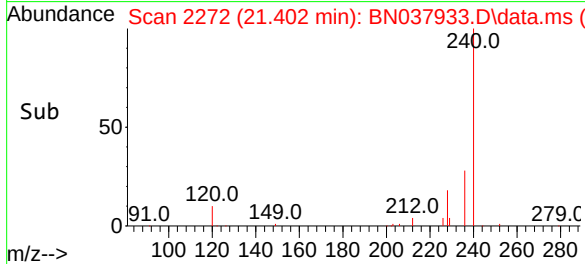
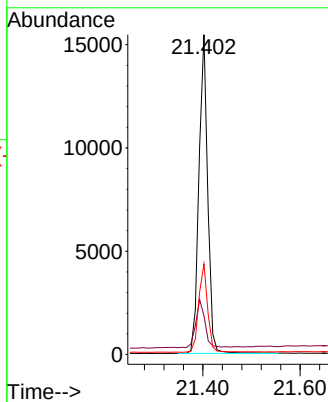
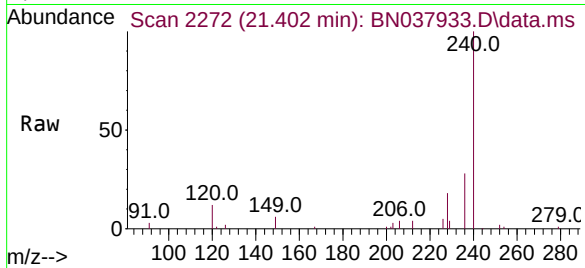




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

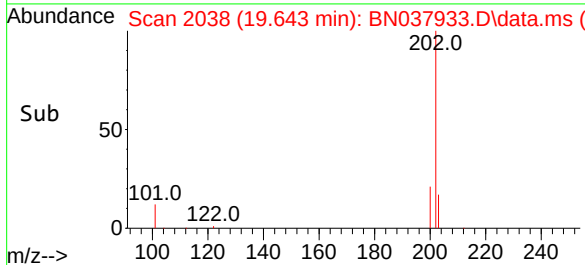
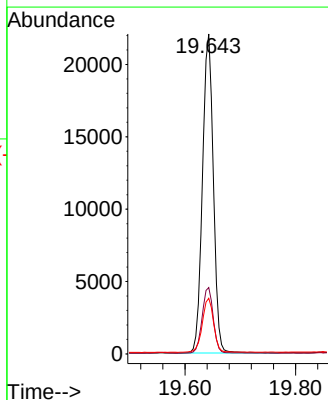
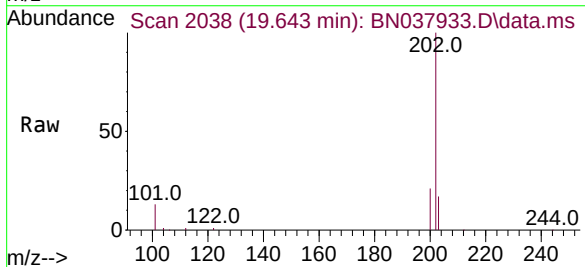
Instrument :
BNA_N
ClientSampleId :
PB169839BS

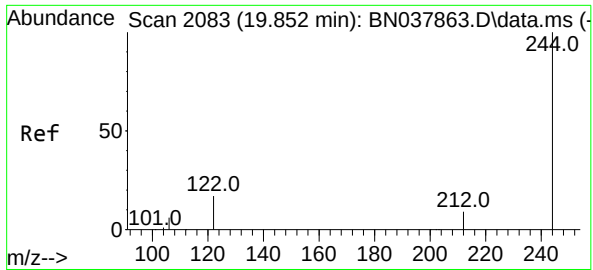
Tgt Ion:	240	Resp:	19399
Ion Ratio	Lower	Upper	
240	100		
120	12.1	11.4	17.2
236	28.4	23.0	34.6



#30
Pyrene
Concen: 0.389 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:	202	Resp:	29825
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4

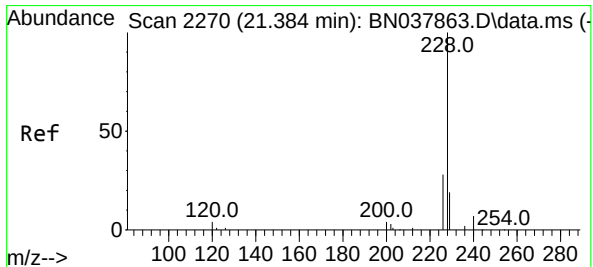
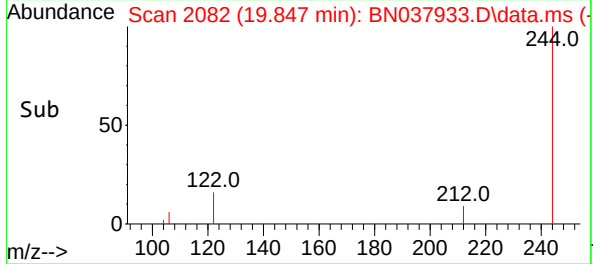
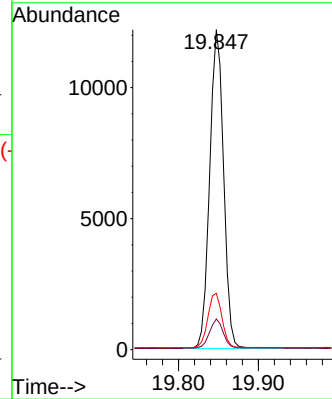
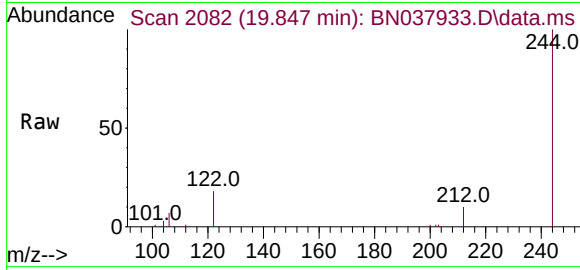




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

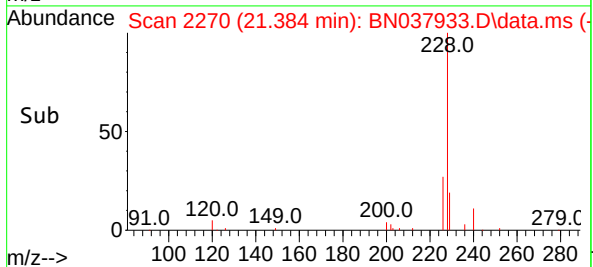
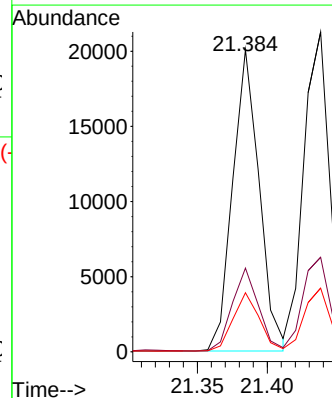
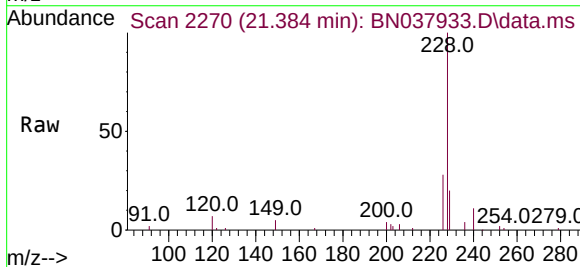
Instrument :
BNA_N
ClientSampleId :
PB169839BS

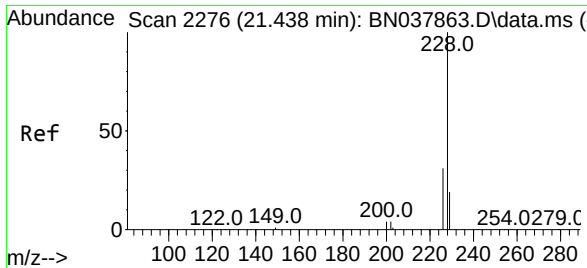
Tgt Ion:244 Resp: 14667
Ion Ratio Lower Upper
244 100
212 9.6 7.6 11.4
122 17.6 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:228 Resp: 26474
Ion Ratio Lower Upper
228 100
226 27.7 22.6 33.8
229 19.6 15.6 23.4

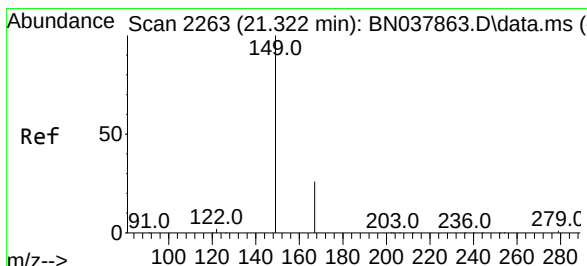
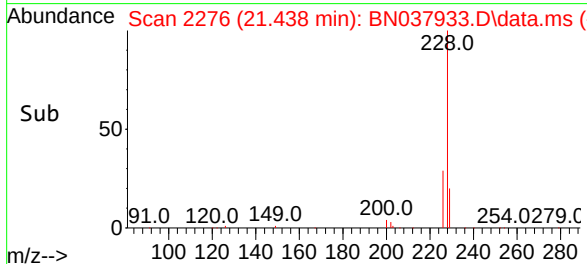
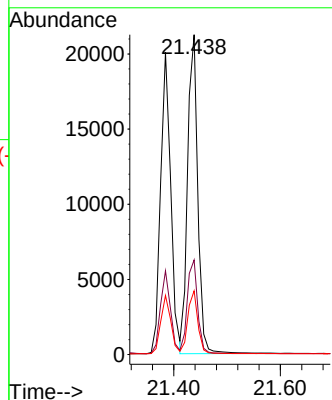
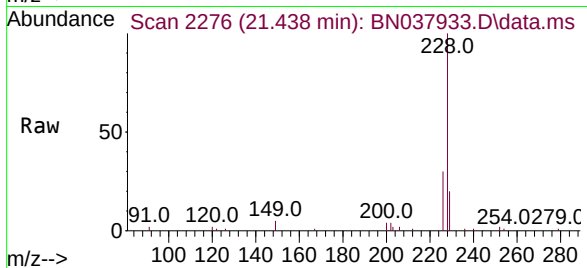




#33
Chrysene
Concen: 0.385 ng
RT: 21.438 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

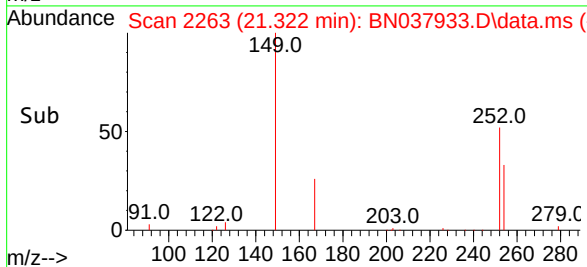
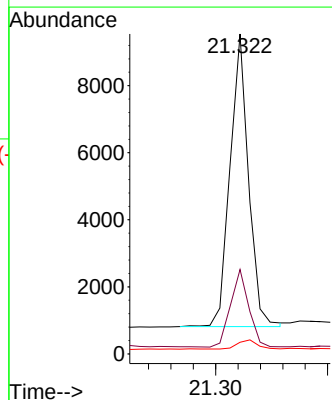
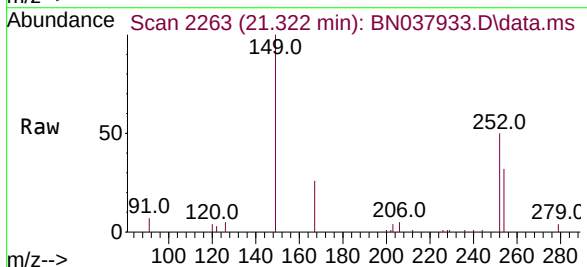
Instrument :
BNA_N
ClientSampleId :
PB169839BS

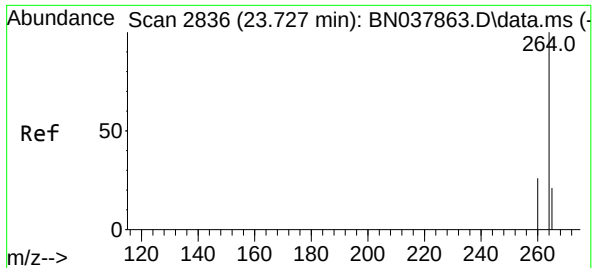
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.6	37.0
229	19.9	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.4	30.6
279	3.3	2.4	3.6

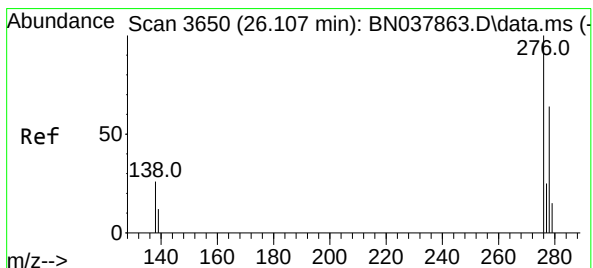
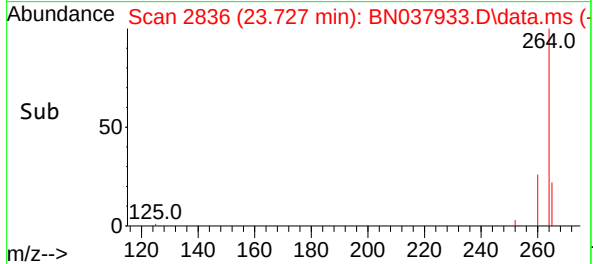
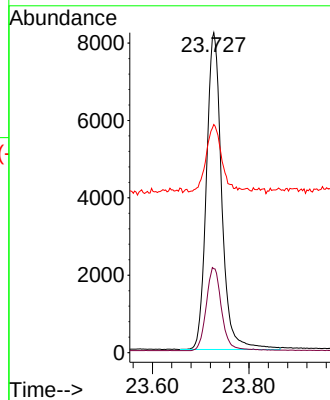
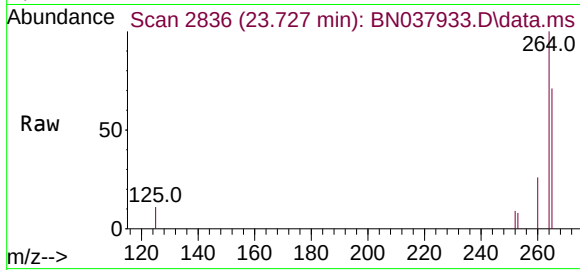




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.727 min Scan# 2836
Delta R.T. 0.000 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

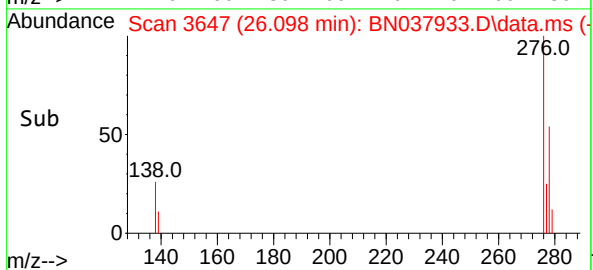
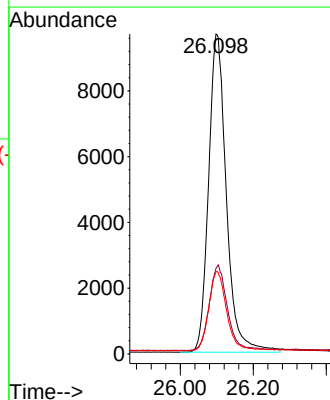
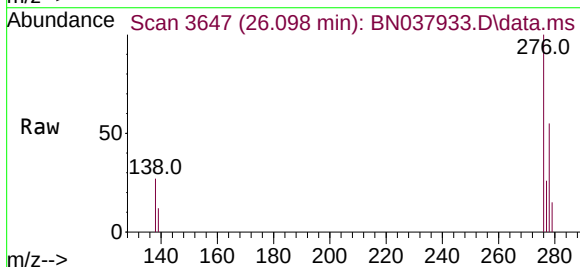
Instrument :
BNA_N
ClientSampleId :
PB169839BS

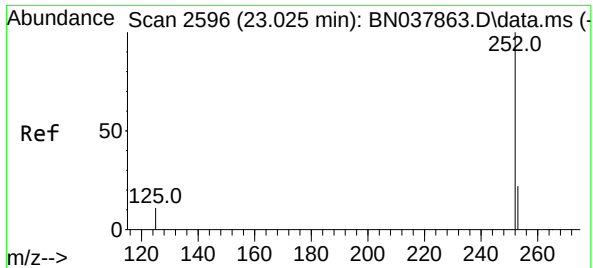
Tgt Ion:	264	Resp:	17959
Ion Ratio	Lower	Upper	
264	100		
260	26.2	21.5	32.3
265	71.3	53.8	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.399 ng
RT: 26.098 min Scan# 3647
Delta R.T. -0.009 min
Lab File: BN037933.D
Acq: 29 Sep 2025 12:43

Tgt Ion:	276	Resp:	32759
Ion Ratio	Lower	Upper	
276	100		
138	26.6	21.4	32.0
277	24.8	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 23.022 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037933.D

Acq: 29 Sep 2025 12:43

Instrument :

BNA_N

ClientSampleId :

PB169839BS

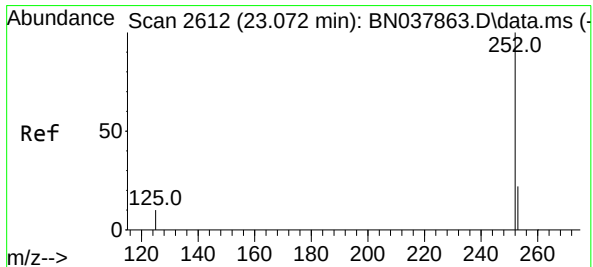
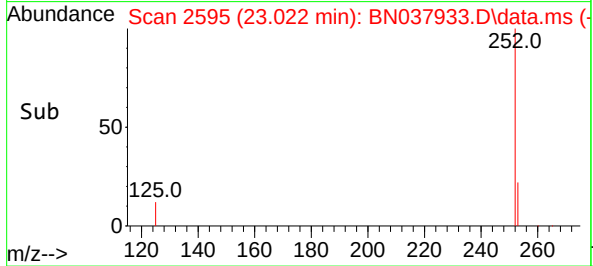
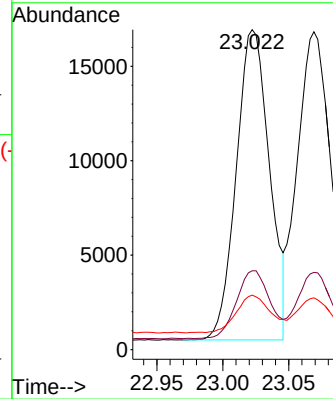
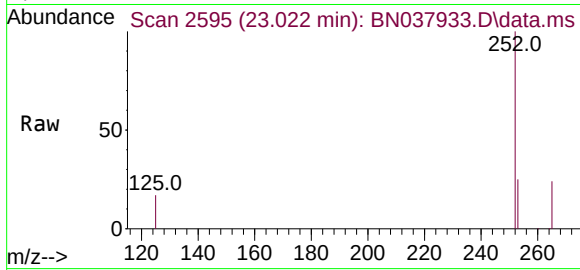
Tgt Ion:252 Resp: 28791

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 17.0 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037933.D

Acq: 29 Sep 2025 12:43

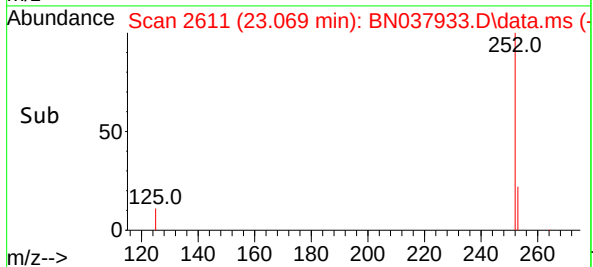
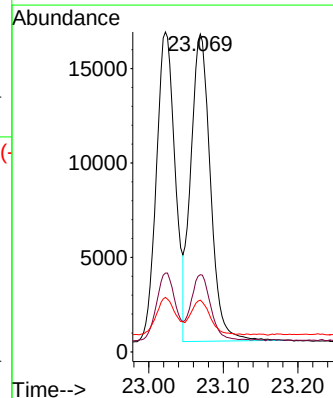
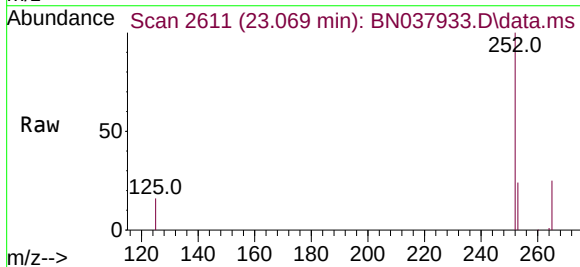
Tgt Ion:252 Resp: 29787

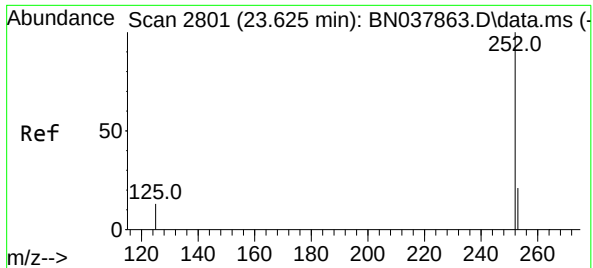
Ion Ratio Lower Upper

252 100

253 24.3 19.5 29.3

125 16.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.397 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037933.D

Acq: 29 Sep 2025 12:43

Instrument :

BNA_N

ClientSampleId :

PB169839BS

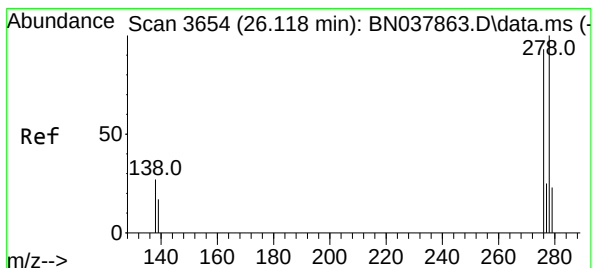
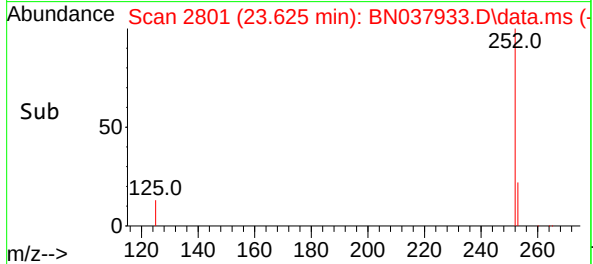
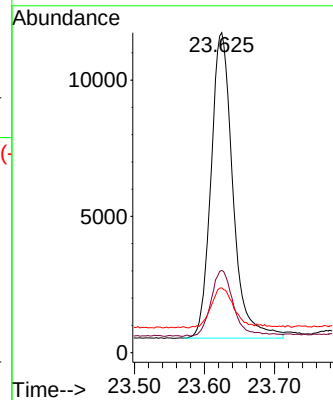
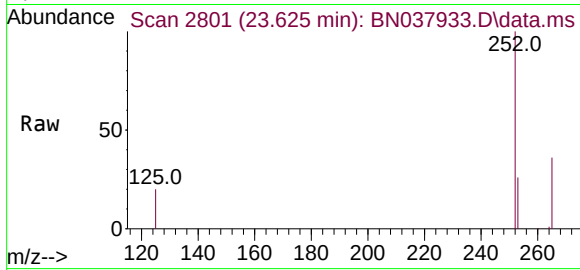
Tgt Ion:252 Resp: 24347

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 20.2 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.398 ng

RT: 26.116 min Scan# 3653

Delta R.T. -0.003 min

Lab File: BN037933.D

Acq: 29 Sep 2025 12:43

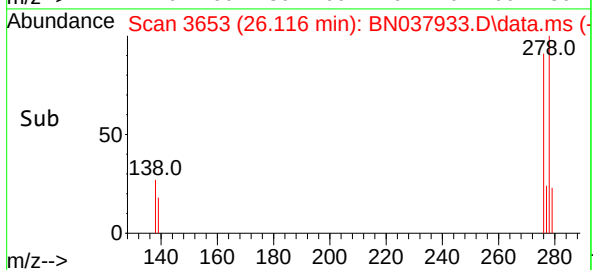
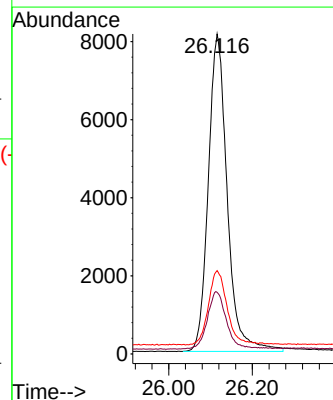
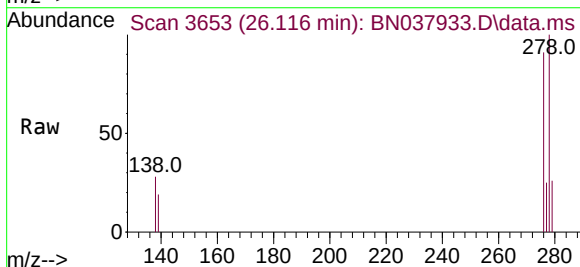
Tgt Ion:278 Resp: 25489

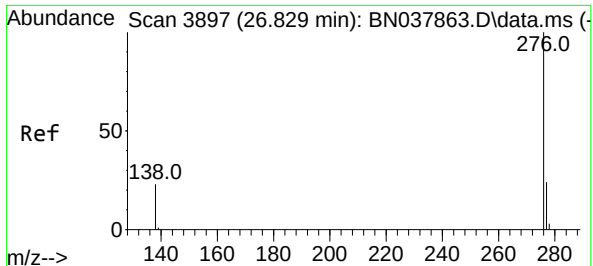
Ion Ratio Lower Upper

278 100

139 19.2 15.4 23.2

279 26.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.399 ng

RT: 26.820 min Scan# 38

Delta R.T. -0.009 min

Lab File: BN037933.D

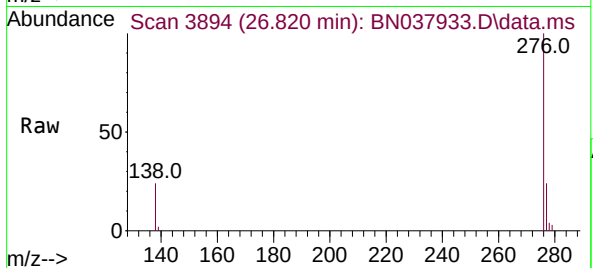
Acq: 29 Sep 2025 12:43

Instrument :

BNA_N

ClientSampleId :

PB169839BS



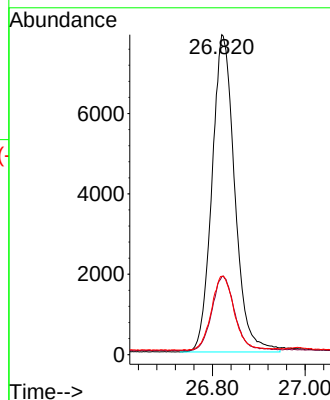
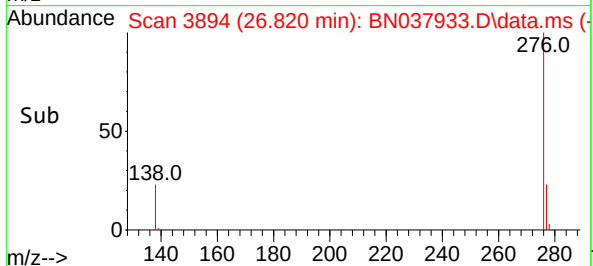
Tgt Ion:276 Resp: 26880

Ion Ratio Lower Upper

276 100

277 24.3 20.2 30.4

138 24.5 19.8 29.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169839BSD	SDG No.:	Q3165
Lab Sample ID:	PB169839BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037934.D	1	09/25/25 11:00	09/29/25 13:19	PB169839

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7870	7.818				
1146-65-2	Naphthalene-d8	22000	10.616				
15067-26-2	Acenaphthene-d10	11400	14.473				
1517-22-2	Phenanthrene-d10	22300	17.223				
1719-03-5	Chrysene-d12	19500	21.402				
1520-96-3	Perylene-d12	17500	23.73				

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\BN092925\
 Data File : BN037934.D
 Acq On : 29 Sep 2025 13:19
 Operator : RC/JU
 Sample : PB169839BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169839BSD

Quant Time: Sep 29 13:43:58 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

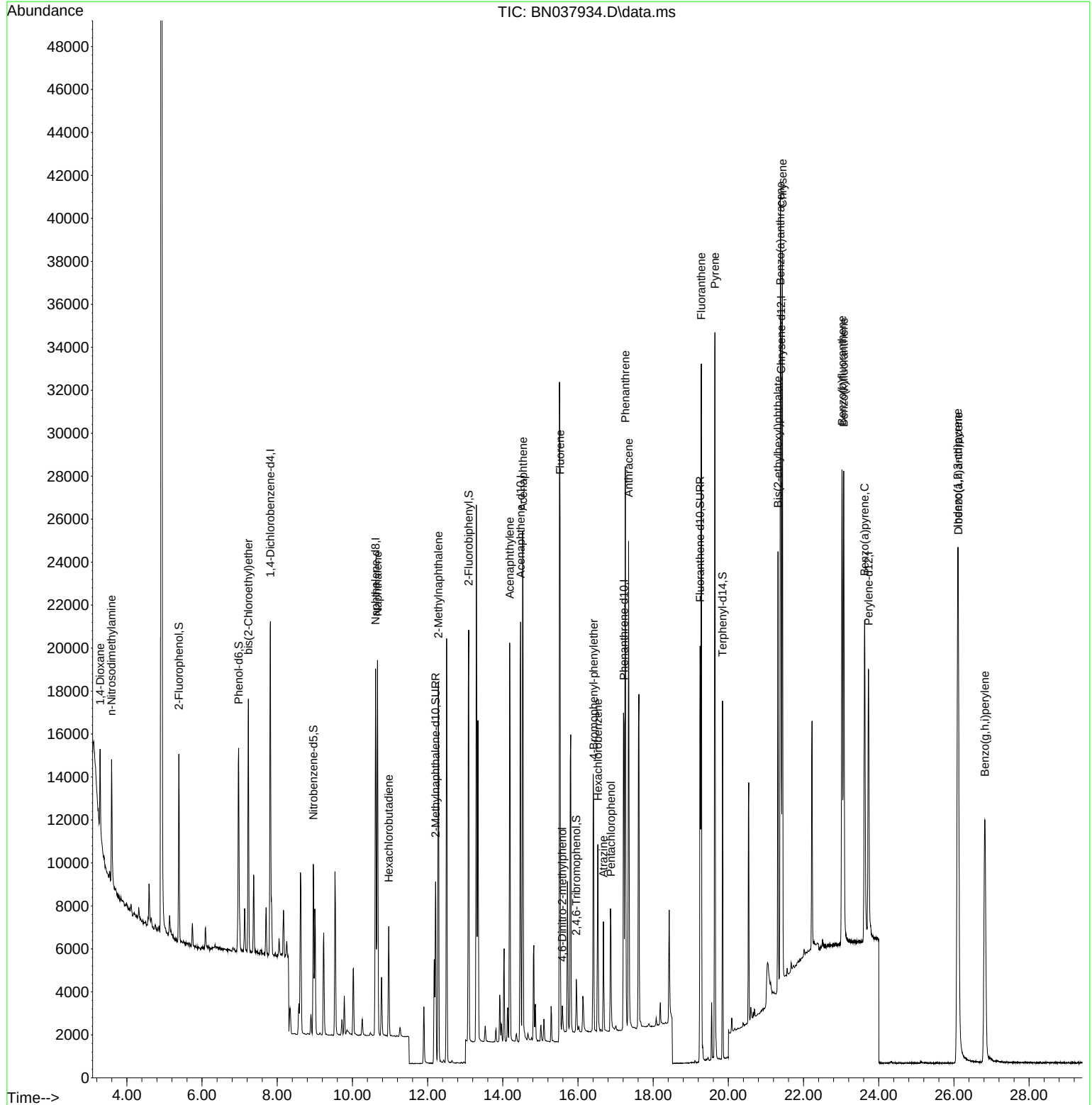
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7869	0.400	ng	0.00
7) Naphthalene-d8	10.616	136	22045	0.400	ng	#-0.01
13) Acenaphthene-d10	14.473	164	11433	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	22296	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	19503	0.400	ng	# 0.00
35) Perylene-d12	23.730	264	17544	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	6796	0.378	ng	0.00
5) Phenol-d6	6.973	99	8836	0.375	ng	0.00
8) Nitrobenzene-d5	8.961	82	6239	0.371	ng	-0.01
11) 2-Methylnaphthalene-d10	12.212	152	11128	0.363	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	1376	0.317	ng	-0.01
15) 2-Fluorobiphenyl	13.094	172	17300	0.370	ng	0.00
27) Fluoranthene-d10	19.248	212	20451	0.365	ng	0.00
31) Terphenyl-d14	19.847	244	15021	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	2483	0.311	ng	# 66
3) n-Nitrosodimethylamine	3.593	42	3581	0.337	ng	# 91
6) bis(2-Chloroethyl)ether	7.233	93	8262	0.377	ng	98
9) Naphthalene	10.669	128	22234	0.366	ng	99
10) Hexachlorobutadiene	10.968	225	3969	0.383	ng	# 100
12) 2-Methylnaphthalene	12.288	142	12773	0.322	ng	99
16) Acenaphthylene	14.185	152	20300	0.391	ng	99
17) Acenaphthene	14.537	154	12991	0.351	ng	98
18) Fluorene	15.523	166	15676	0.350	ng	100
20) 4,6-Dinitro-2-methylph...	15.585	198	879	0.375	ng	# 63
21) 4-Bromophenyl-phenylether	16.416	248	5248	0.361	ng	# 85
22) Hexachlorobenzene	16.528	284	6459	0.367	ng	99
23) Atrazine	16.677	200	3705	0.335	ng	# 93
24) Pentachlorophenol	16.876	266	3323	0.550	ng	95
25) Phenanthrene	17.260	178	27030	0.368	ng	98
26) Anthracene	17.347	178	23395	0.368	ng	99
28) Fluoranthene	19.281	202	28868	0.357	ng	100
30) Pyrene	19.643	202	30717	0.399	ng	100
32) Benzo(a)anthracene	21.384	228	26783	0.393	ng	99
33) Chrysene	21.438	228	28638	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	10221	0.379	ng	99
36) Indeno(1,2,3-cd)pyrene	26.101	276	32133	0.401	ng	99
37) Benzo(b)fluoranthene	23.022	252	29057	0.384	ng	100
38) Benzo(k)fluoranthene	23.069	252	30131	0.396	ng	99
39) Benzo(a)pyrene	23.625	252	24377	0.407	ng	98
40) Dibenzo(a,h)anthracene	26.116	278	25120	0.401	ng	100
41) Benzo(g,h,i)perylene	26.826	276	26188	0.398	ng	99

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

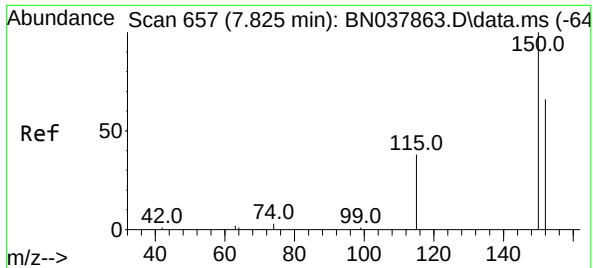
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092925\
Data File : BN037934.D
Acq On : 29 Sep 2025 13:19
Operator : RC/JU
Sample : PB169839BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169839BSD

Quant Time: Sep 29 13:43:58 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

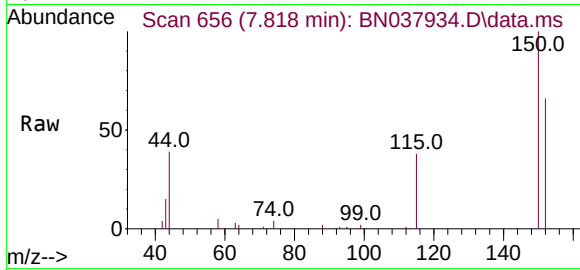


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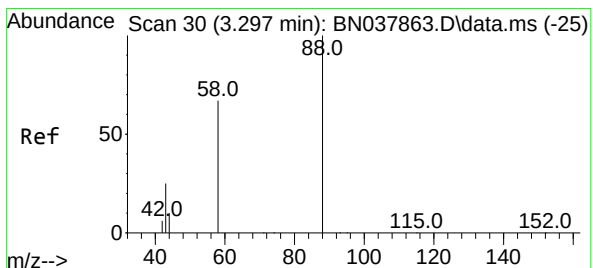
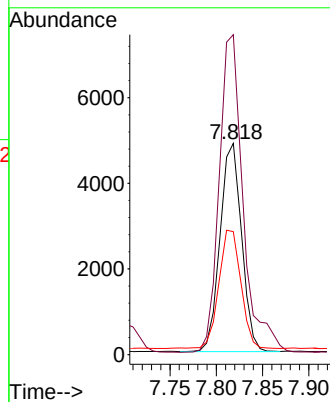
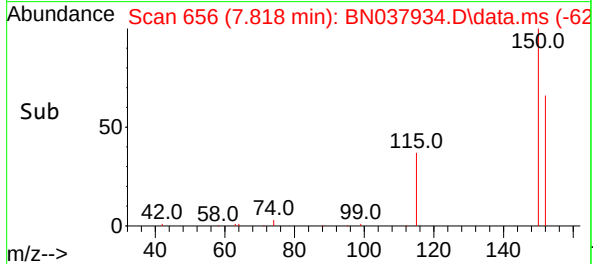


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Instrument :
BNA_N
ClientSampleId :
PB169839BSD

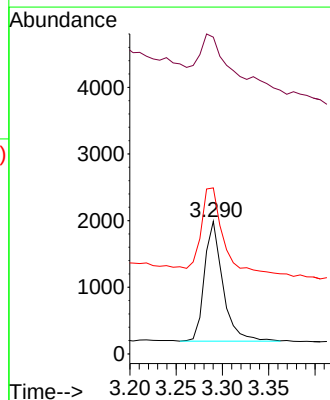
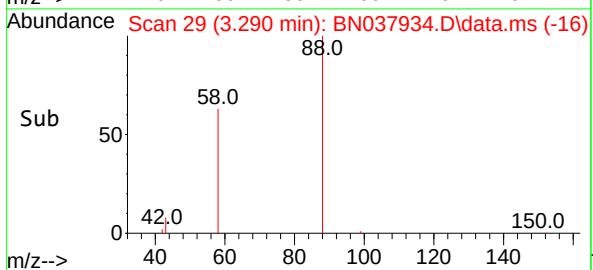
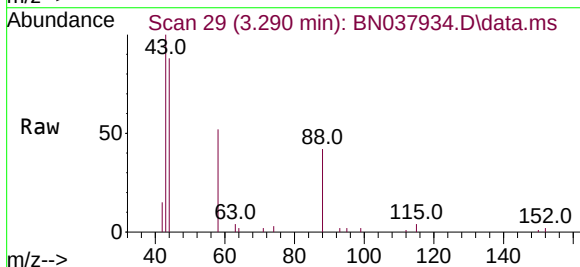


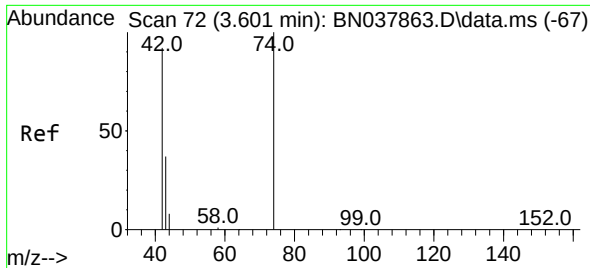
Tgt Ion:152 Resp: 7869
Ion Ratio Lower Upper
152 100
150 151.5 121.0 181.4
115 58.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.311 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion: 88 Resp: 2483
Ion Ratio Lower Upper
88 100
43 79.3 26.6 39.8#
58 84.5 58.9 88.3

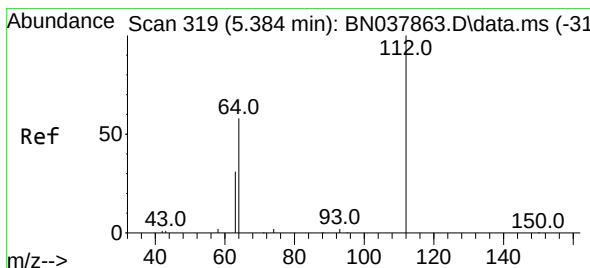
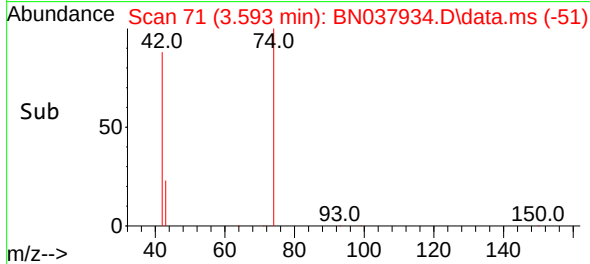
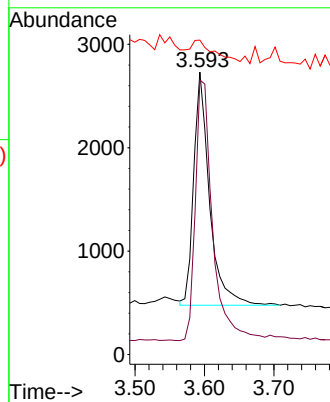
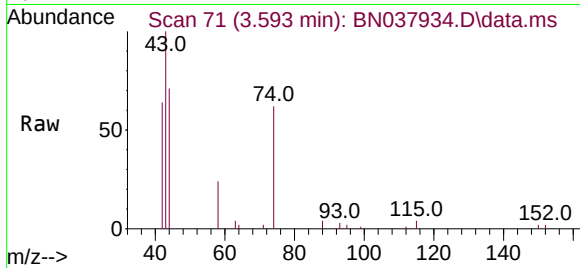




#3
n-Nitrosodimethylamine
Concen: 0.337 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

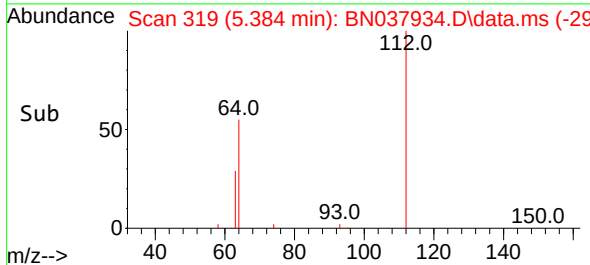
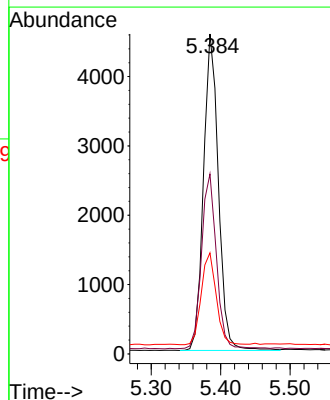
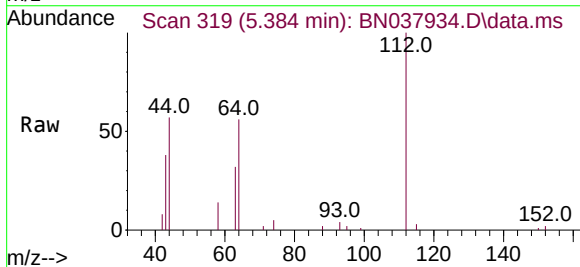
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

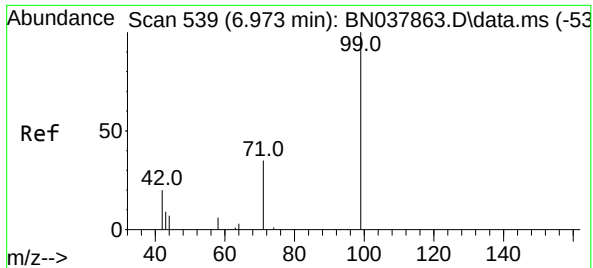
Tgt Ion: 42 Resp: 3581
Ion Ratio Lower Upper
42 100
74 121.3 93.4 140.0
44 12.7 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion: 112 Resp: 6796
Ion Ratio Lower Upper
112 100
64 55.5 44.6 66.8
63 29.2 24.9 37.3

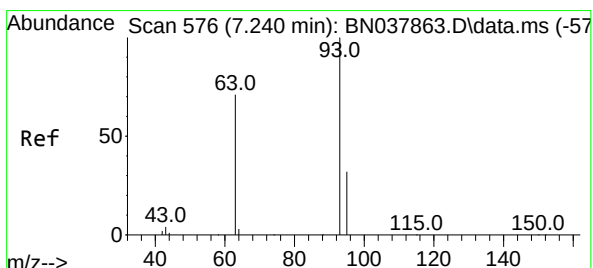
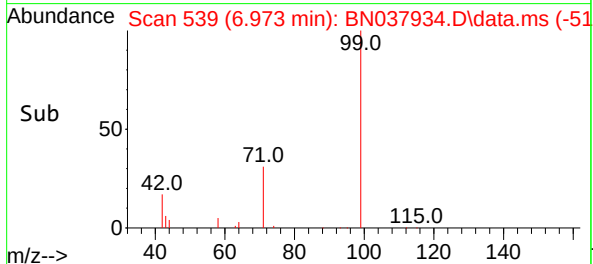
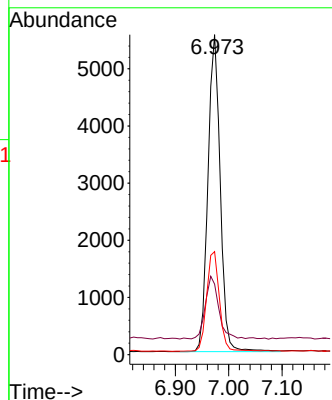
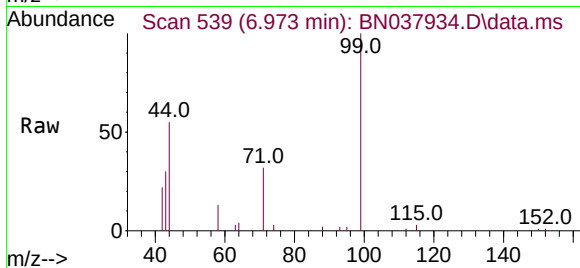




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.973 min Scan# 531
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

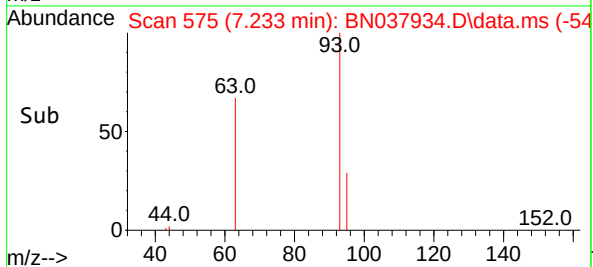
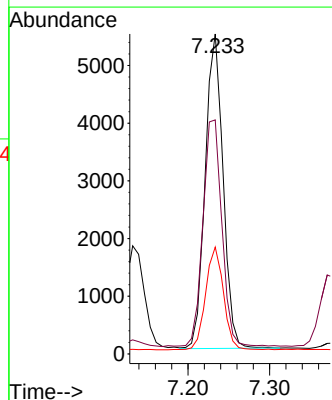
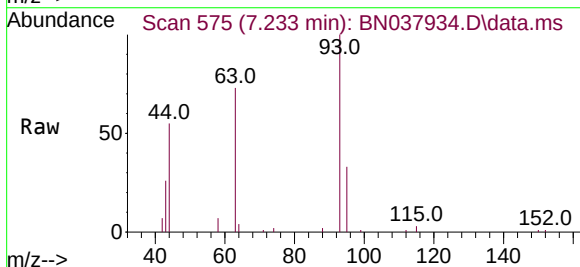
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

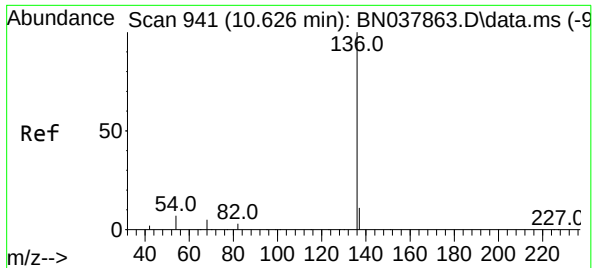
Tgt Ion:	99	Resp:	8836
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	32.8	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 7.233 min Scan# 575
Delta R.T. -0.007 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:	93	Resp:	8262
Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.1	90.1
95	32.7	25.4	38.2

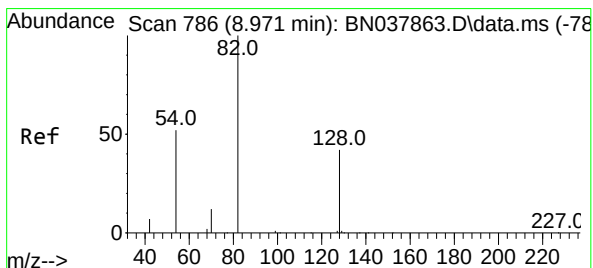
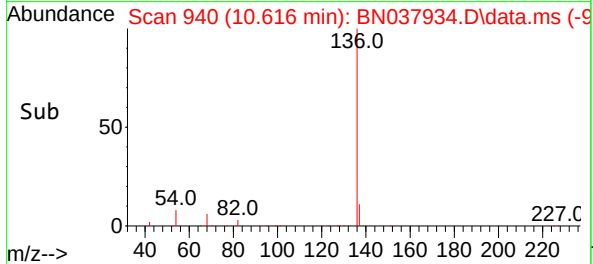
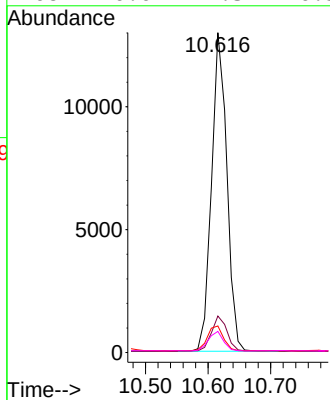
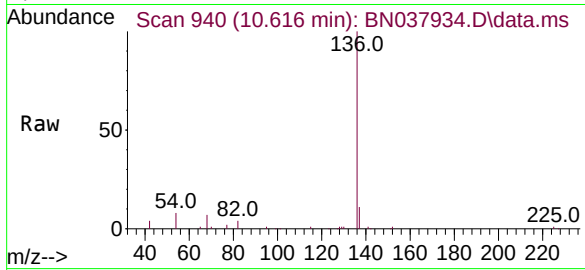




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.616 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

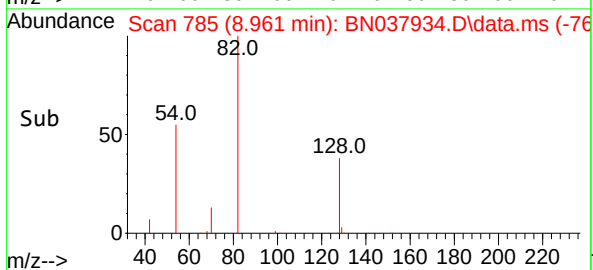
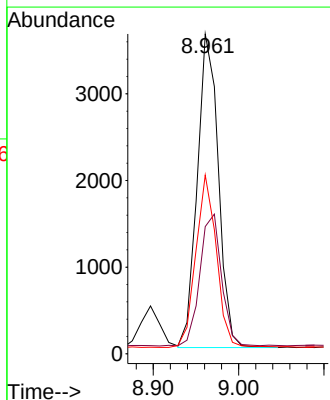
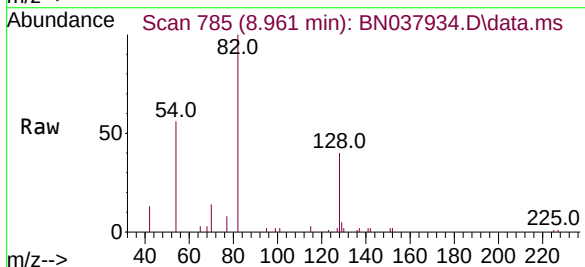
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

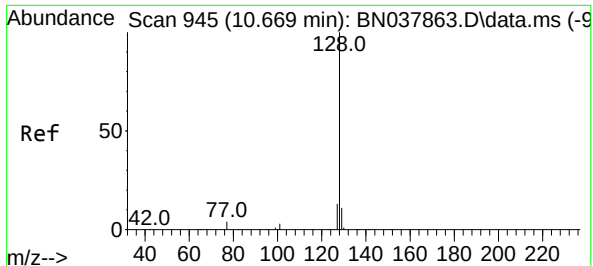
Tgt Ion:	136	Resp:	22045
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.0	13.4
54	8.3	5.8	8.8
68	6.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.371 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.011 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:	82	Resp:	6239
Ion Ratio	Lower	Upper	
82	100		
128	39.8	34.8	52.2
54	55.9	42.2	63.2

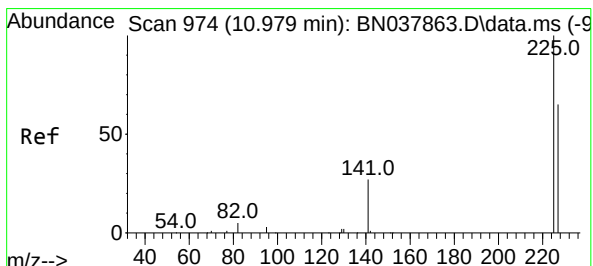
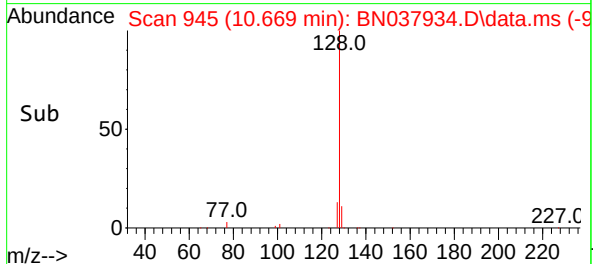
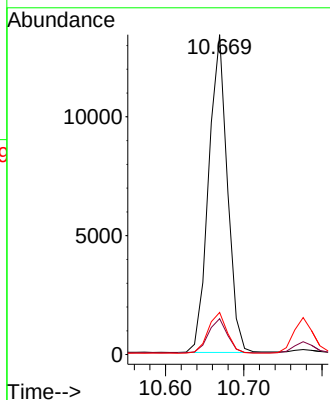
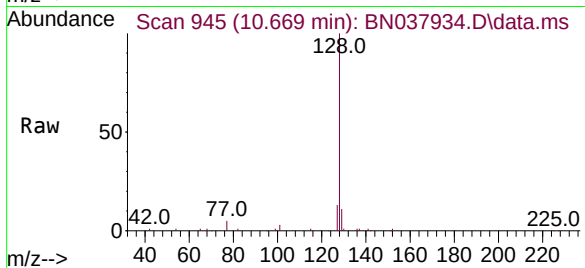




#9
Naphthalene
Concen: 0.366 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

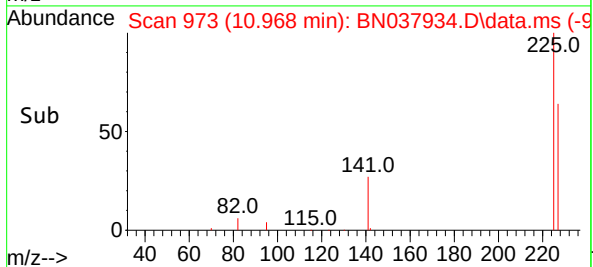
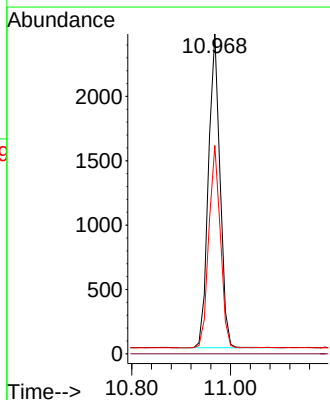
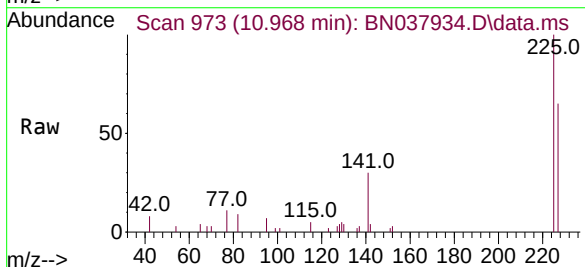
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

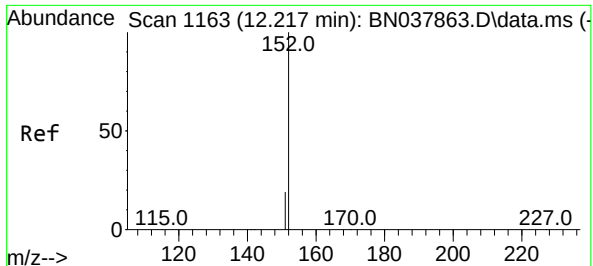
Tgt Ion:	128	Resp:	22234
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:	225	Resp:	3969
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.4	77.2

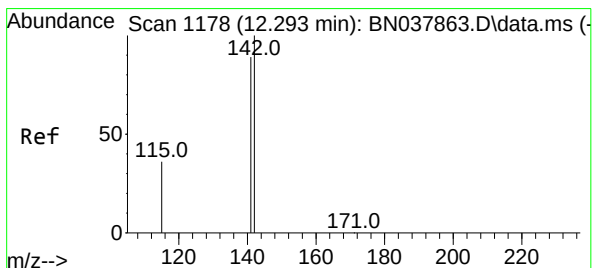
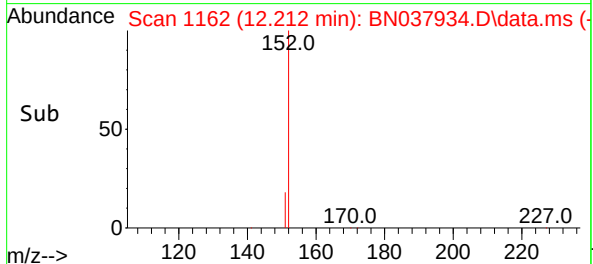
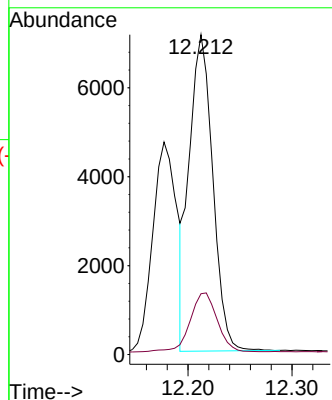
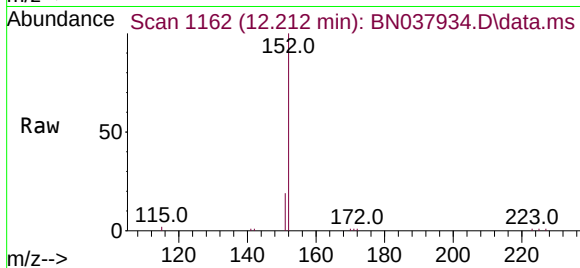




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

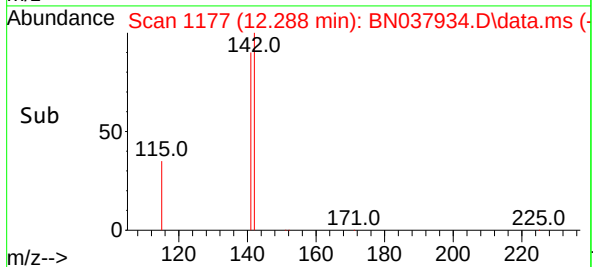
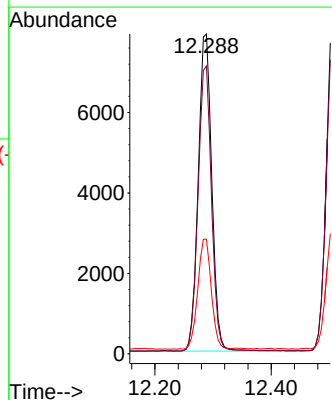
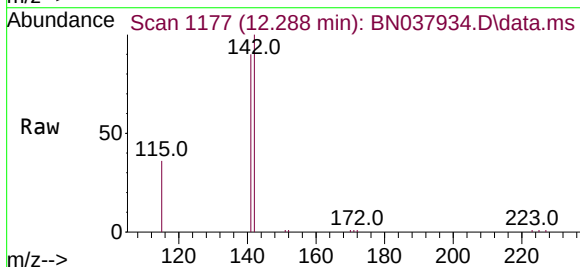
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

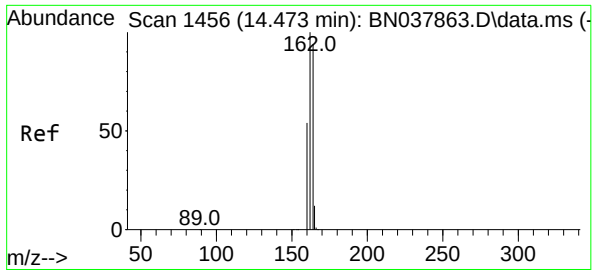
Tgt Ion:152 Resp: 11128
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.322 ng
RT: 12.288 min Scan# 1177
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:142 Resp: 12773
Ion Ratio Lower Upper
142 100
141 90.0 71.2 106.8
115 35.8 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: BN037934.D

Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD

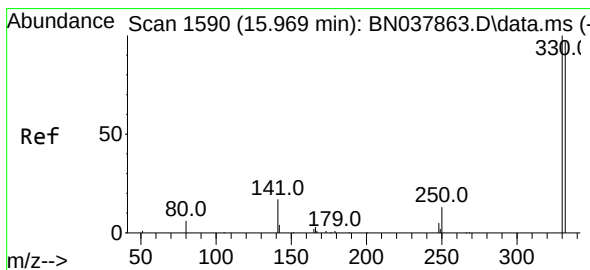
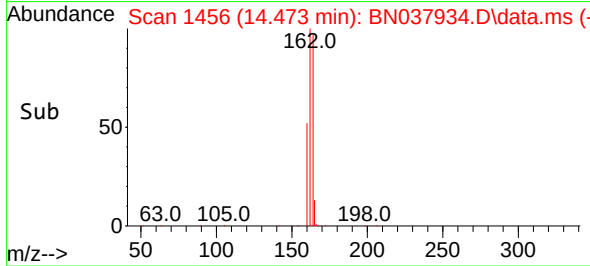
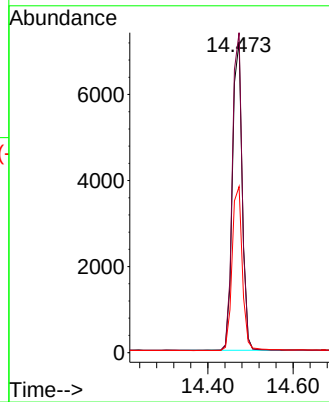
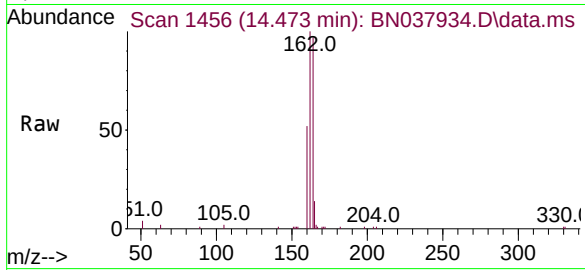
Tgt Ion:164 Resp: 11433

Ion	Ratio	Lower	Upper

164	100		

162	103.0	84.8	127.2

160	53.4	46.1	69.1



#14

2,4,6-Tribromophenol

Concen: 0.317 ng

RT: 15.957 min Scan# 1589

Delta R.T. -0.012 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

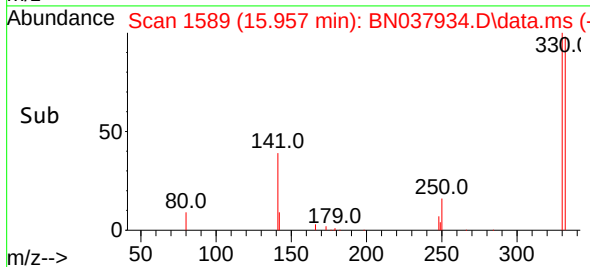
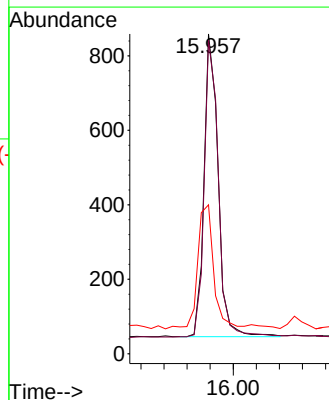
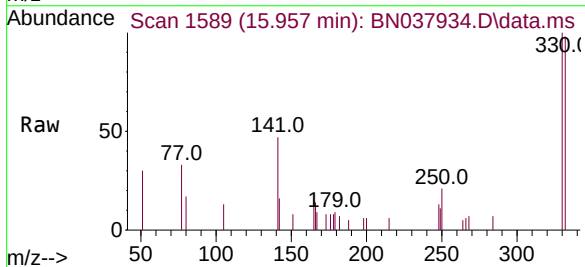
Tgt Ion:330 Resp: 1376

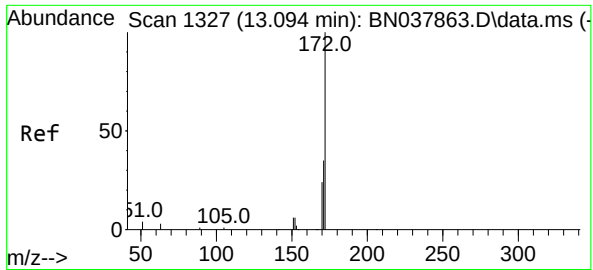
Ion	Ratio	Lower	Upper

330	100		

332	99.1	77.2	115.8

141	46.7	37.2	55.8

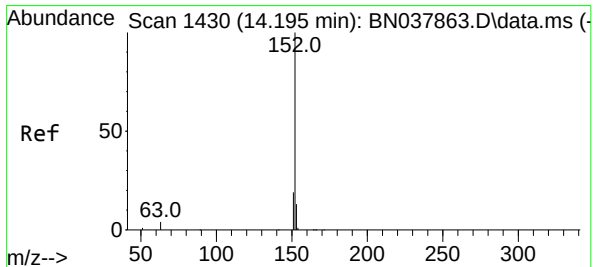
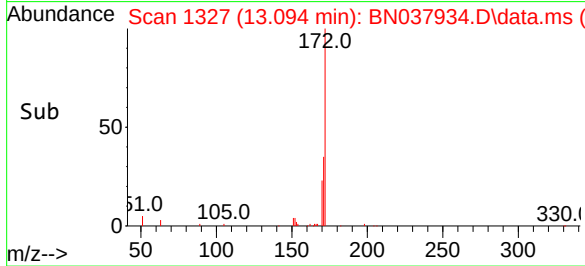
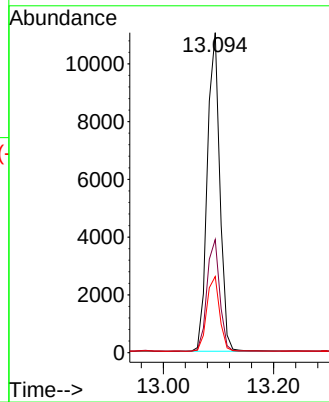
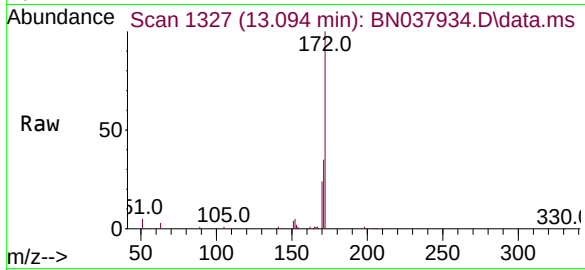




#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

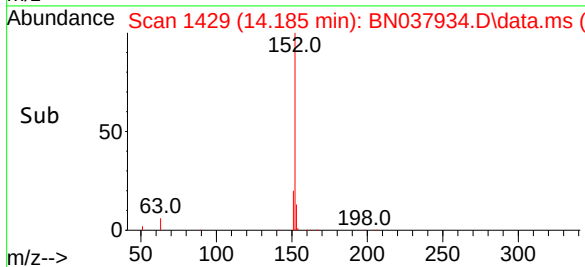
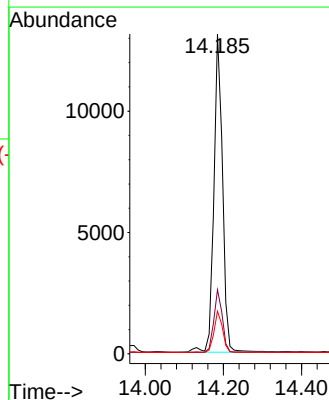
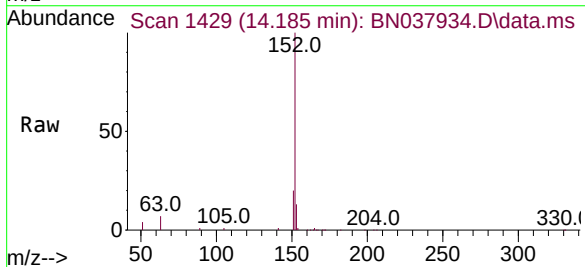
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

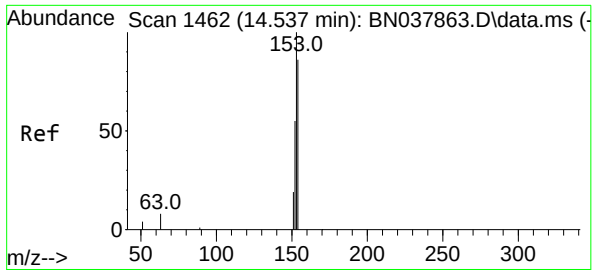
Tgt Ion:	172	Resp:	17300
Ion Ratio	Lower	Upper	
172	100		
171	35.3	28.6	43.0
170	23.8	19.7	29.5



#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.185 min Scan# 1429
Delta R.T. -0.011 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:	152	Resp:	20300
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.8	23.8
153	12.9	10.5	15.7

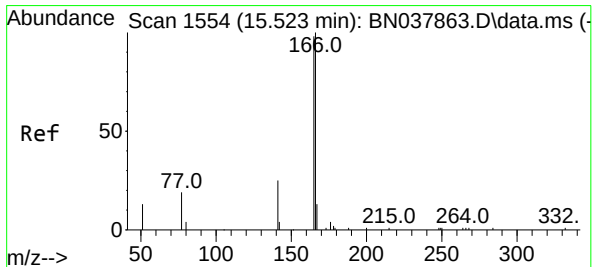
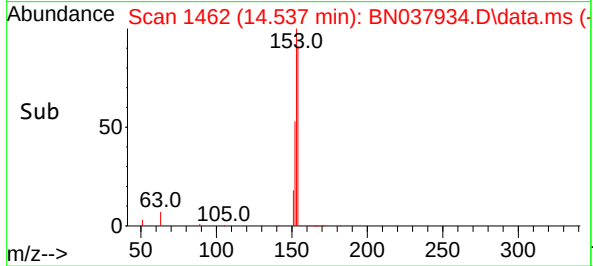
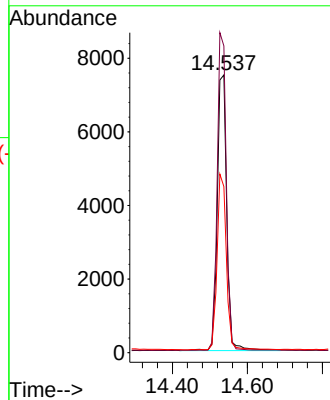
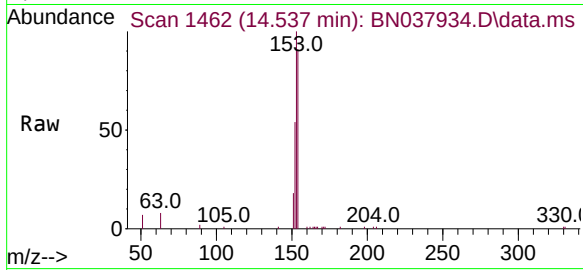




#17
Acenaphthene
Concen: 0.351 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

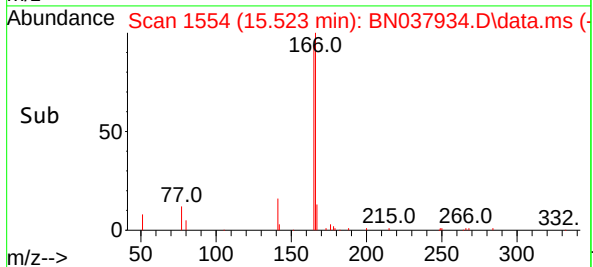
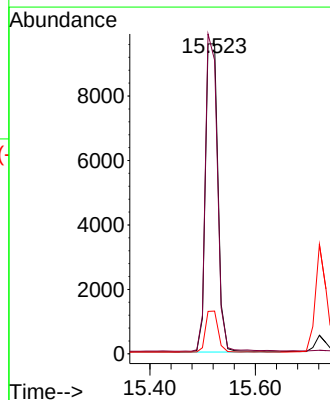
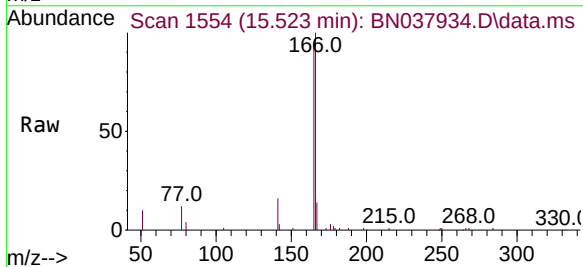
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

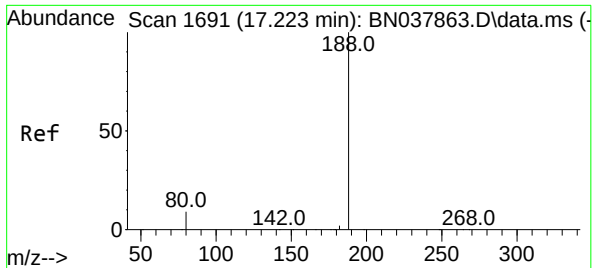
Tgt Ion	Ratio	Lower	Upper
154	100		
153	111.1	90.5	135.7
152	62.4	51.8	77.8



#18
Fluorene
Concen: 0.350 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.0	118.4
167	12.9	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: BN037934.D

Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD

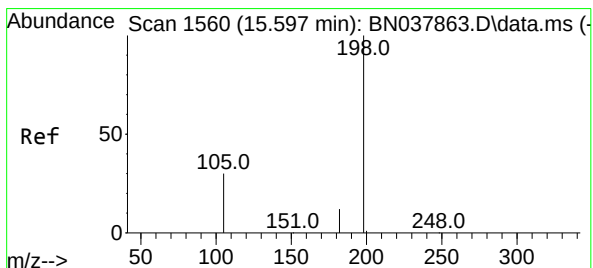
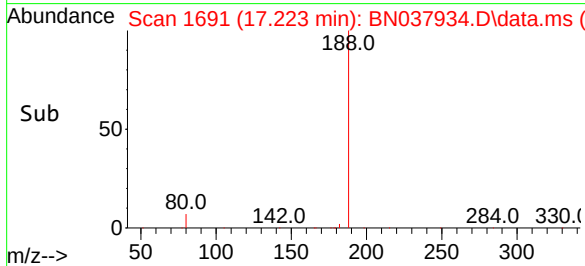
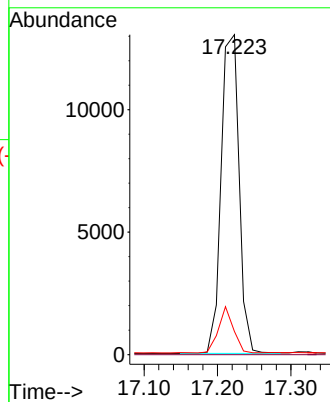
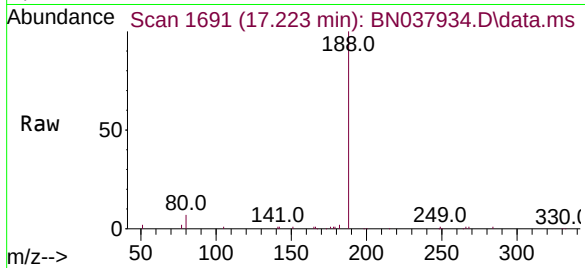
Tgt Ion:188 Resp: 22296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.2 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.375 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

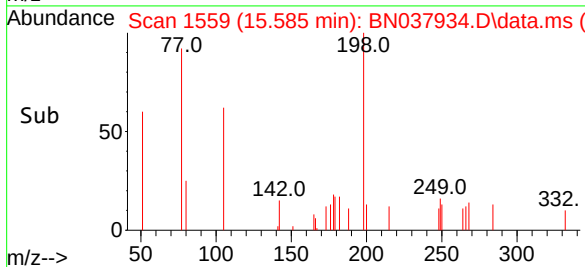
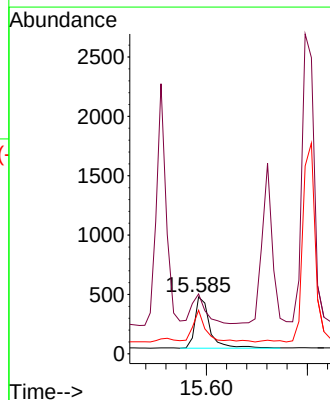
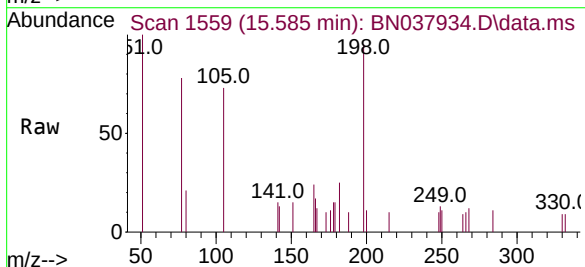
Tgt Ion:198 Resp: 879

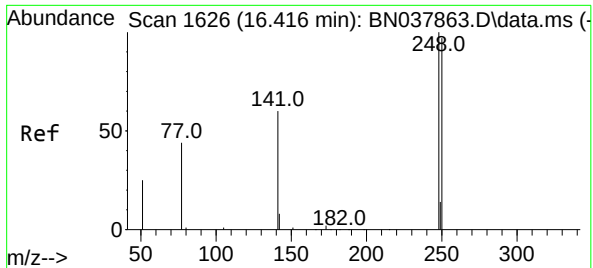
Ion Ratio Lower Upper

198 100

51 105.4 59.1 88.7#

105 76.6 41.3 61.9#

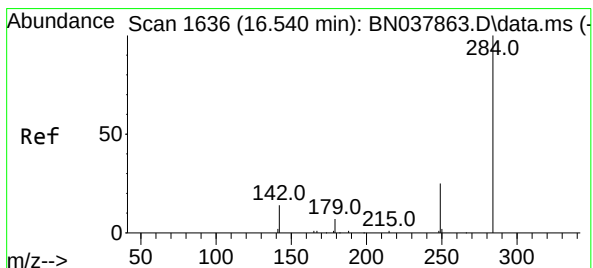
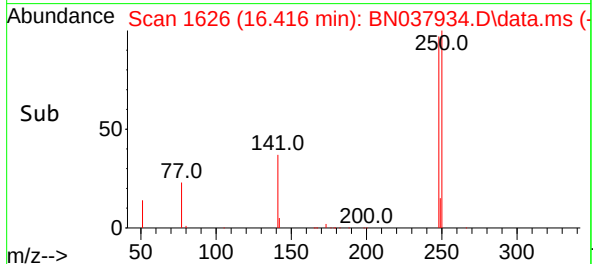
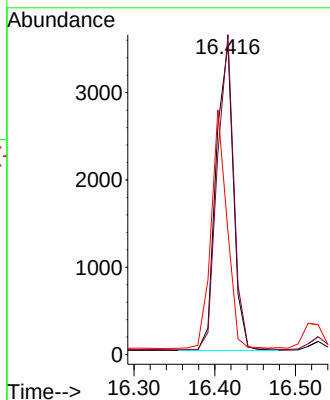
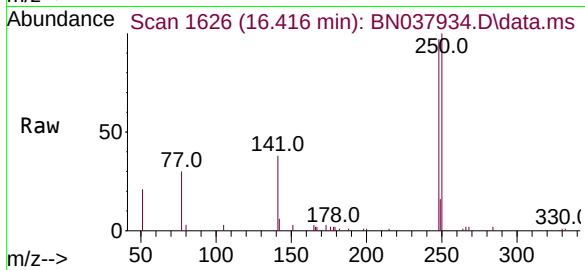




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

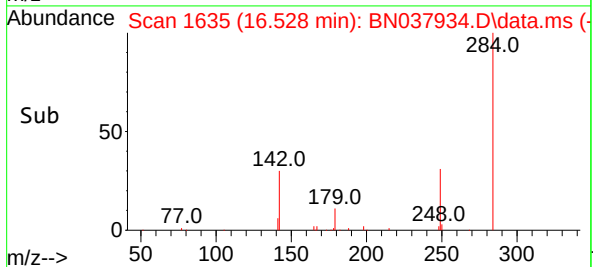
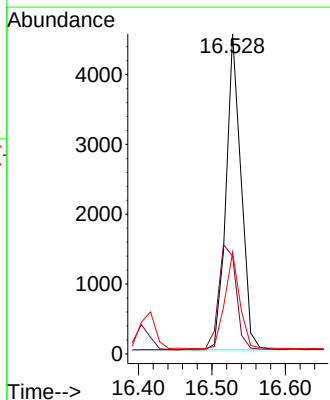
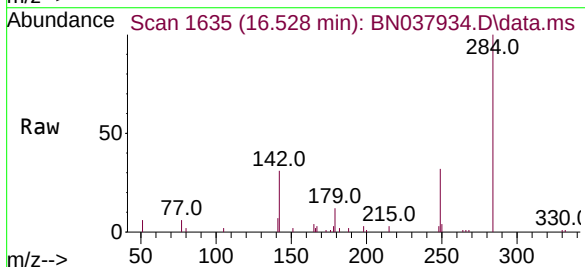
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

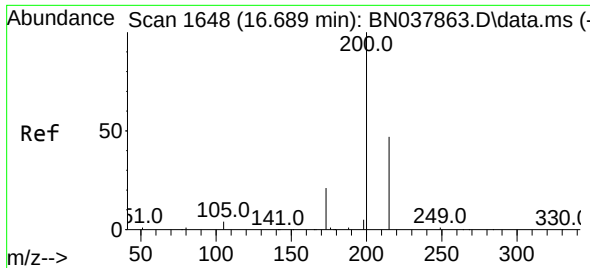
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	77.6	116.4
141	39.5	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	30.5	23.9	35.9

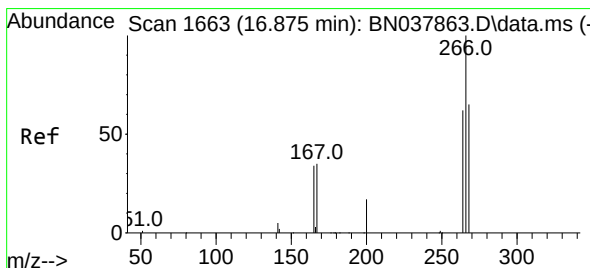
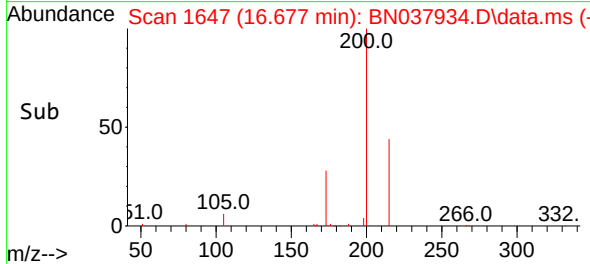
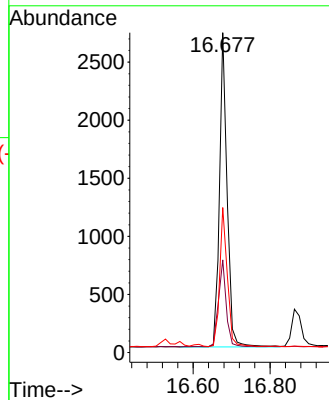
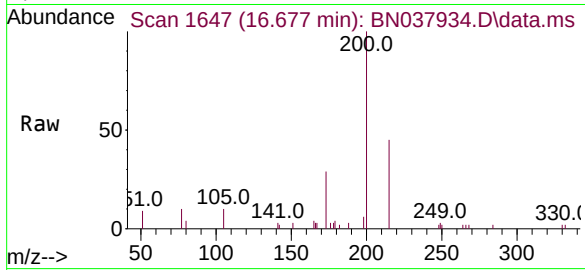




#23
Atrazine
Concen: 0.335 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

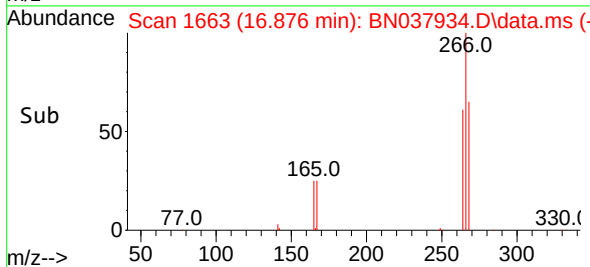
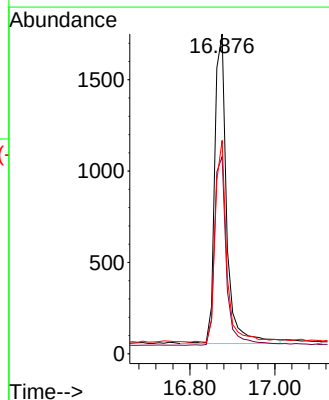
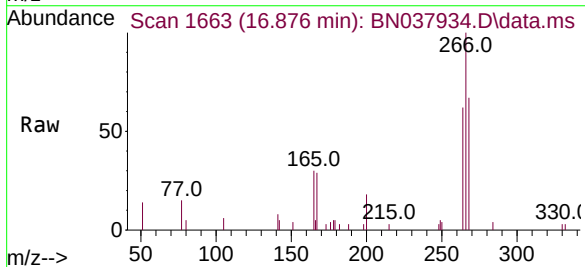
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

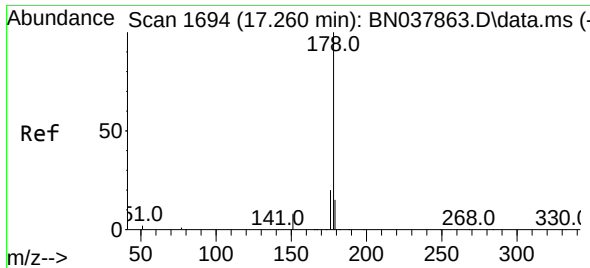
Tgt Ion:200 Resp: 3705
Ion Ratio Lower Upper
200 100
173 29.0 18.3 27.5#
215 45.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.550 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:266 Resp: 3323
Ion Ratio Lower Upper
266 100
264 61.1 50.9 76.3
268 62.6 54.3 81.5

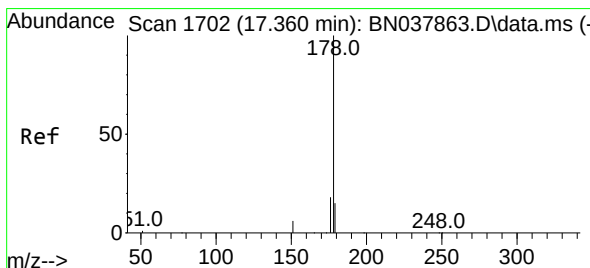
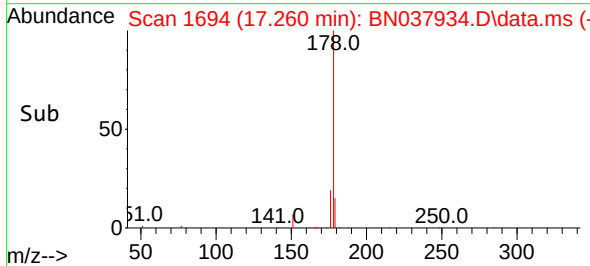
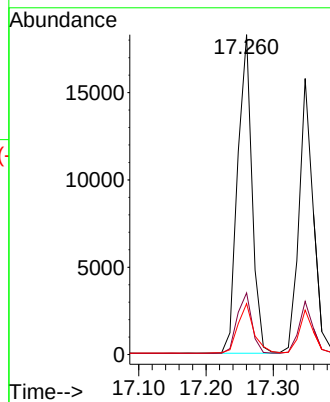
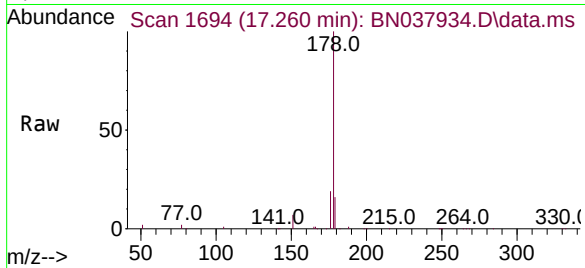




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

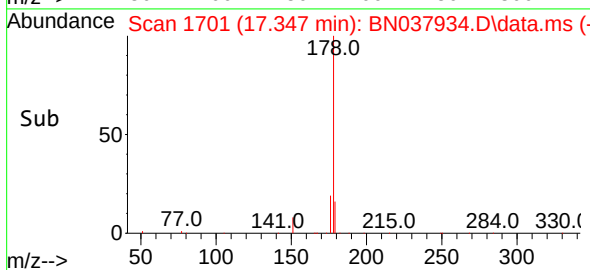
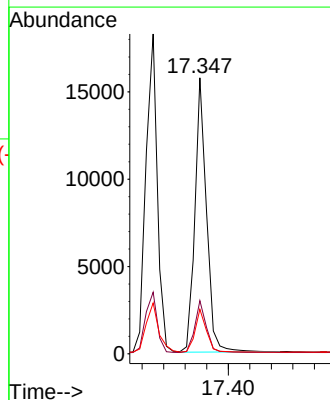
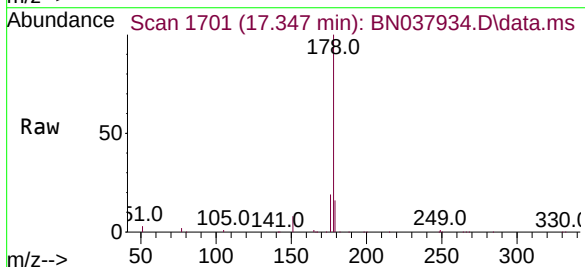
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

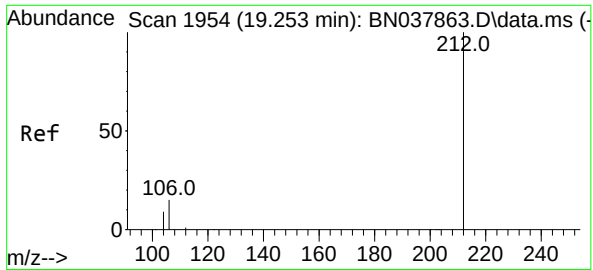
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	17.2	12.3	18.5



#26
Anthracene
Concen: 0.368 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.6	12.3	18.5

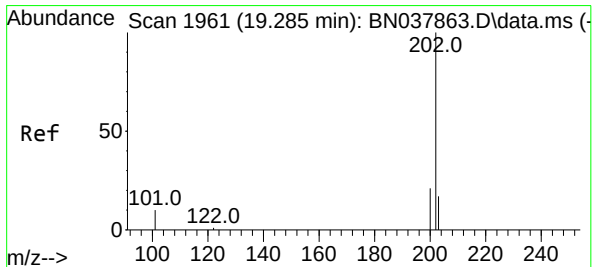
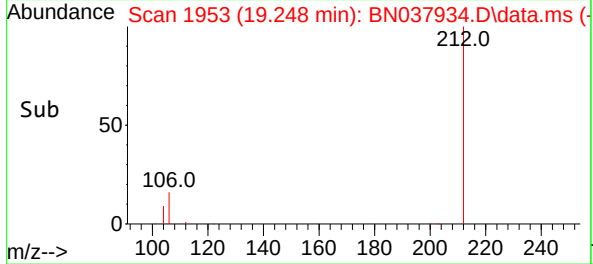
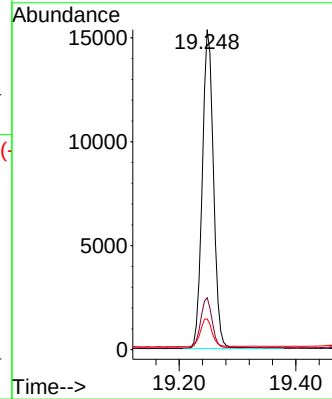
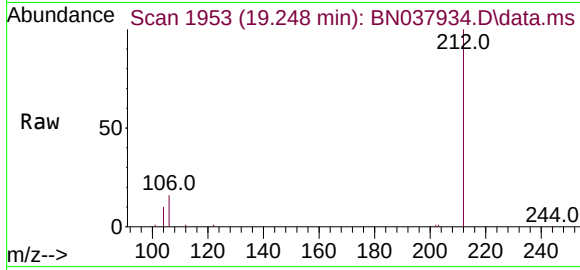




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.248 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

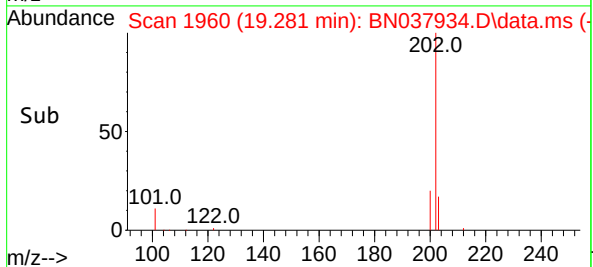
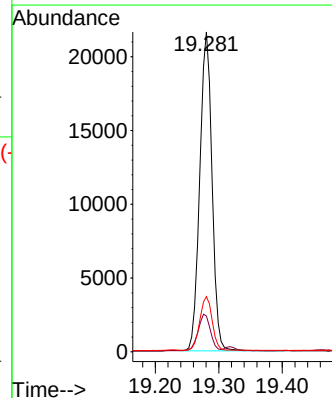
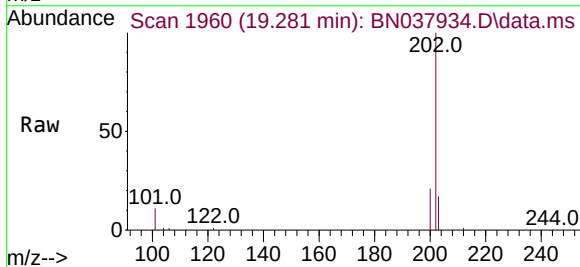
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

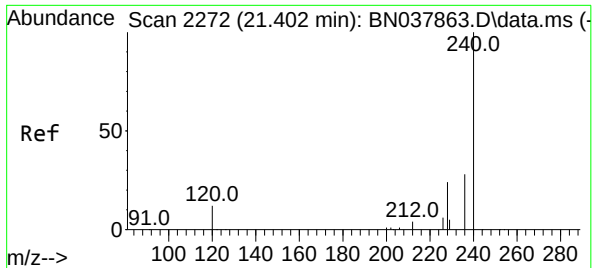
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.2	7.4	11.0



#28
Fluoranthene
Concen: 0.357 ng
RT: 19.281 min Scan# 1960
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.1	13.6	20.4

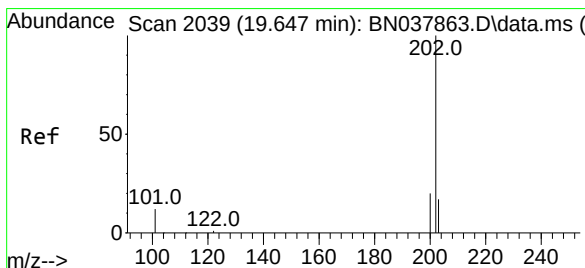
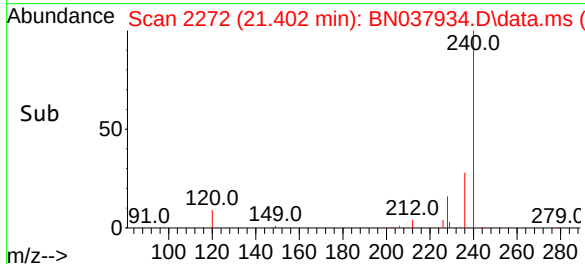
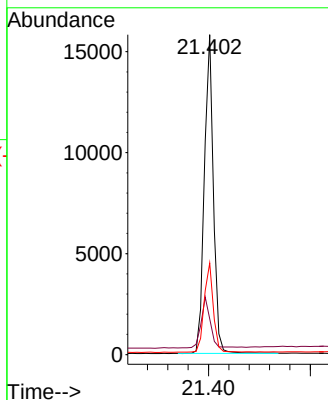
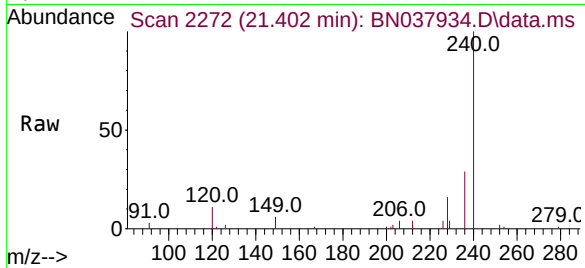




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

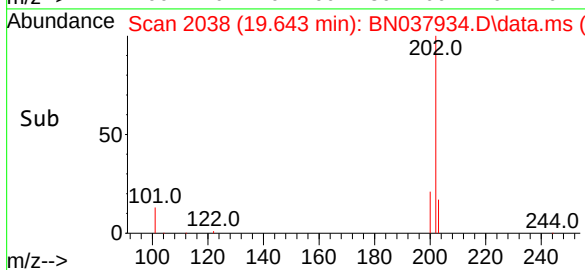
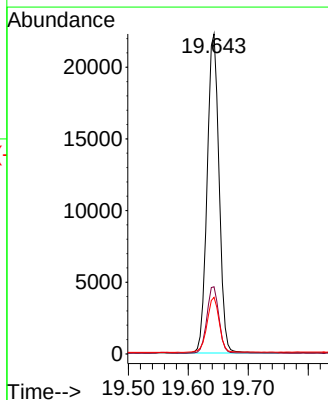
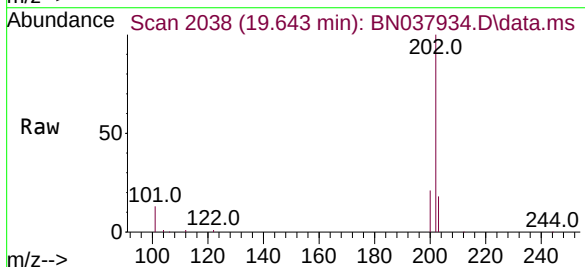
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

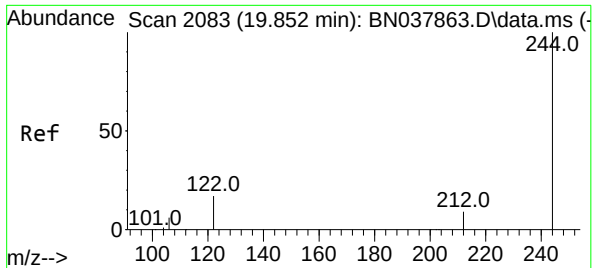
Tgt Ion:	240	Resp:	19503
Ion Ratio	Lower	Upper	
240	100		
120	11.2	11.4	17.2#
236	28.6	23.0	34.6



#30
Pyrene
Concen: 0.399 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

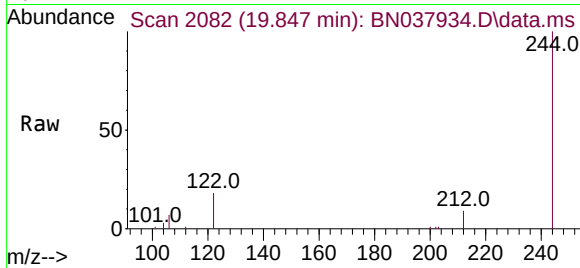
Tgt Ion:	202	Resp:	30717
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.5	14.2	21.4



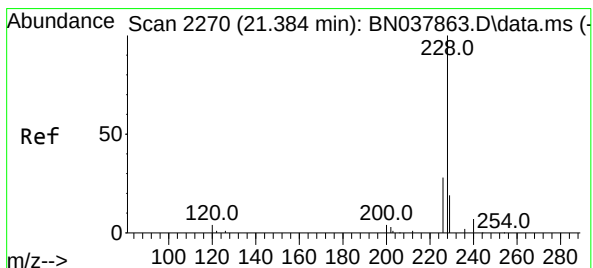
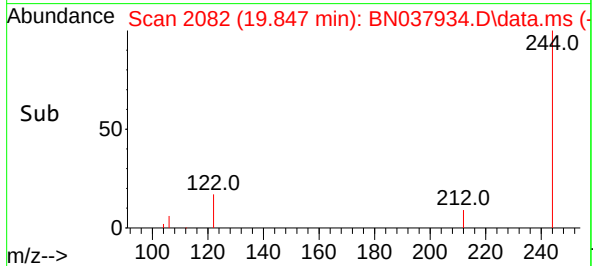
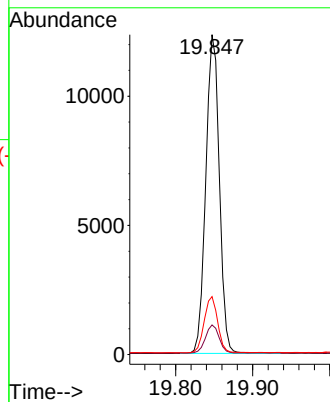


#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.847 min Scan# 2082
Delta R.T. -0.005 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Instrument :
BNA_N
ClientSampleId :
PB169839BSD

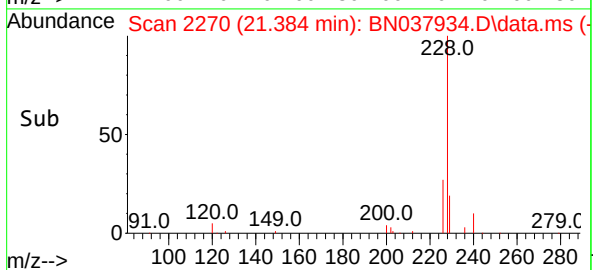
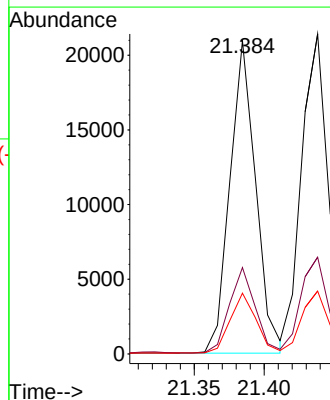
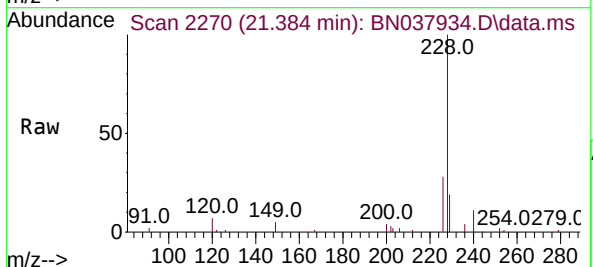


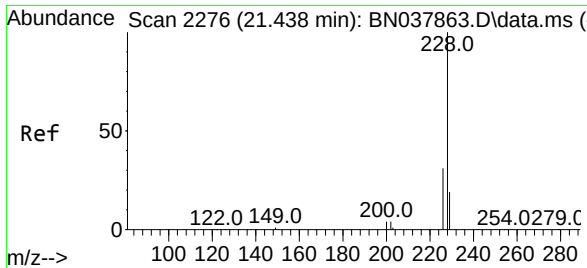
Tgt Ion:244 Resp: 15021
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 18.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion:228 Resp: 26783
Ion Ratio Lower Upper
228 100
226 27.5 22.6 33.8
229 19.4 15.6 23.4





#33

Chrysene

Concen: 0.389 ng

RT: 21.438 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD

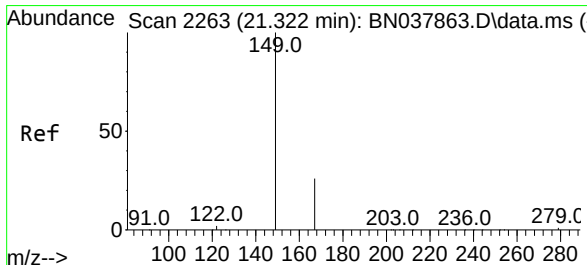
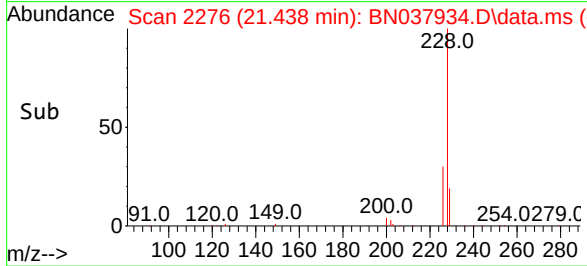
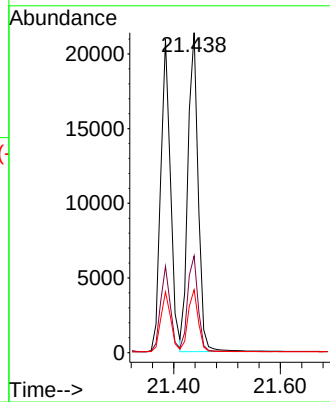
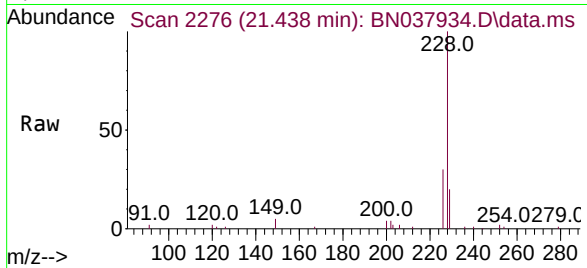
Tgt Ion:228 Resp: 28638

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

229 19.6 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.379 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

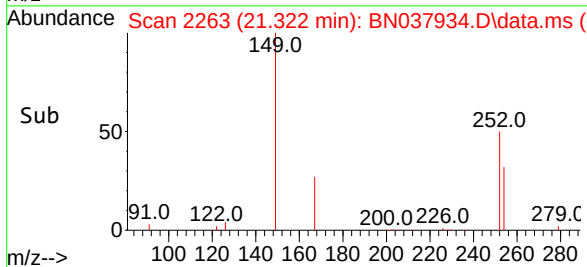
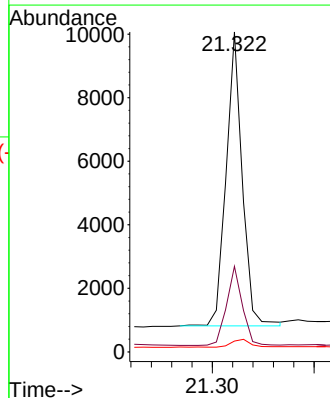
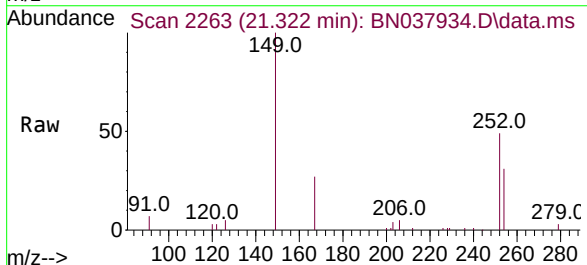
Tgt Ion:149 Resp: 10221

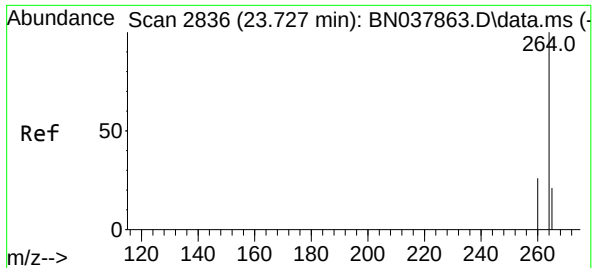
Ion Ratio Lower Upper

149 100

167 26.2 20.4 30.6

279 3.4 2.4 3.6

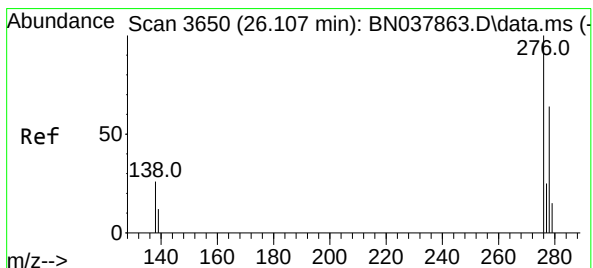
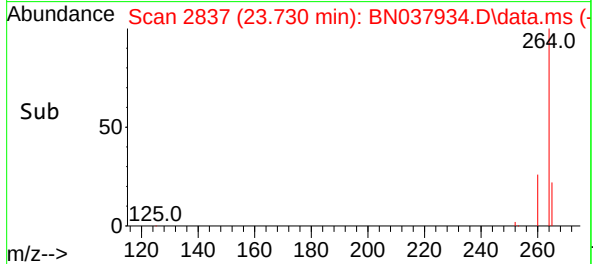
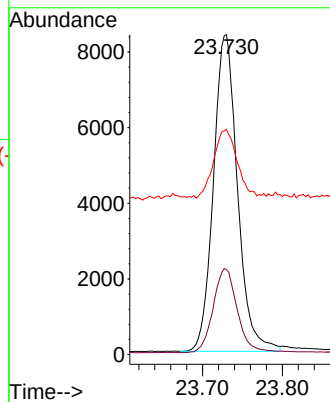
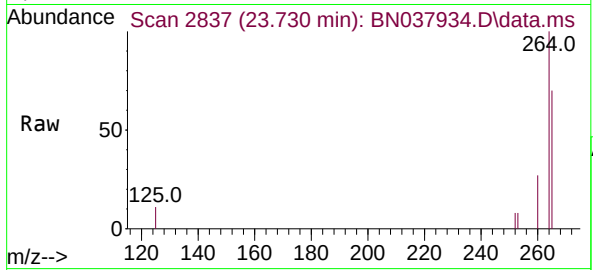




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

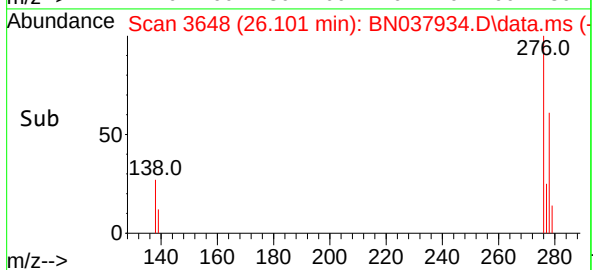
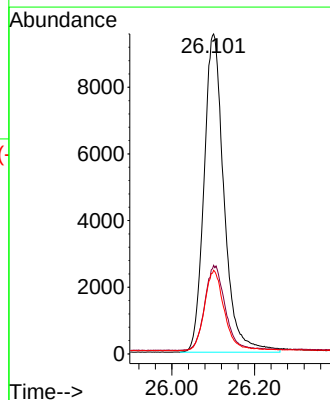
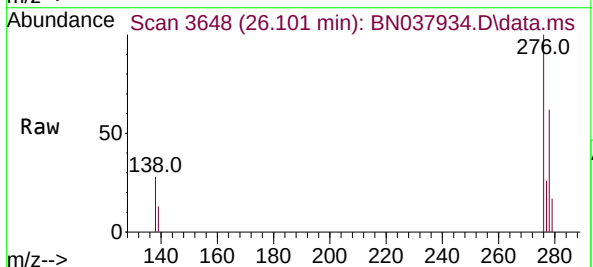
Instrument :
BNA_N
ClientSampleId :
PB169839BSD

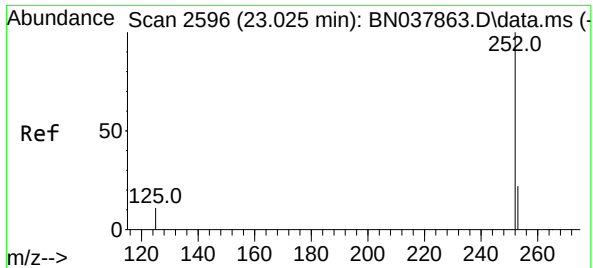
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.5	32.3
265	70.4	53.8	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.401 ng
RT: 26.101 min Scan# 3648
Delta R.T. -0.006 min
Lab File: BN037934.D
Acq: 29 Sep 2025 13:19

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.4	32.0
277	24.8	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 0.384 ng

RT: 23.022 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD

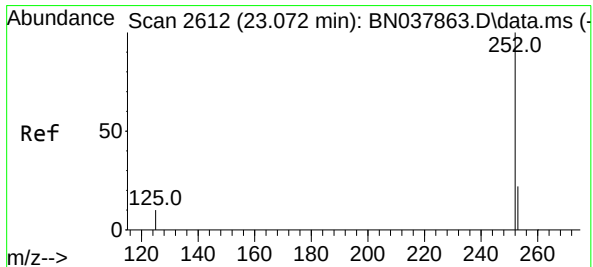
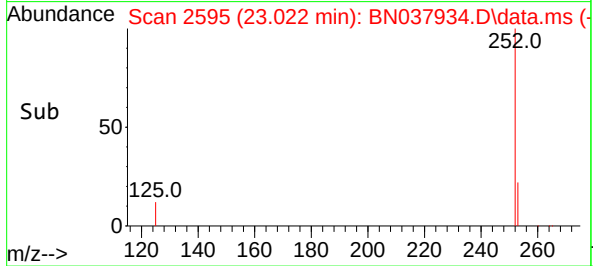
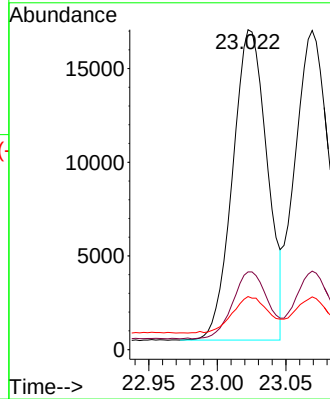
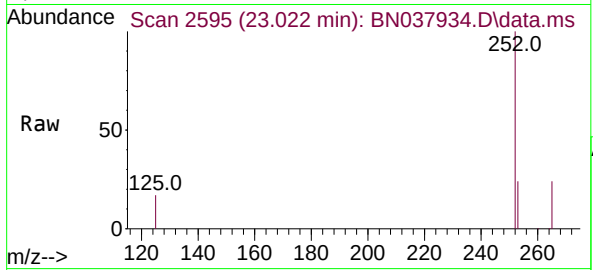
Tgt Ion:252 Resp: 29057

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.0

125 16.6 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.396 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

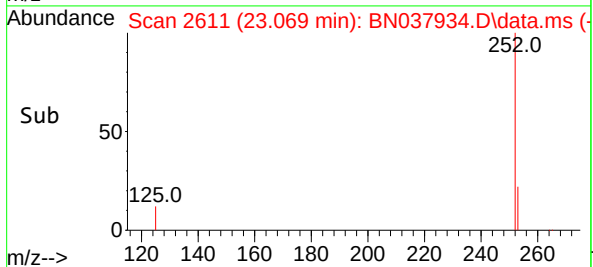
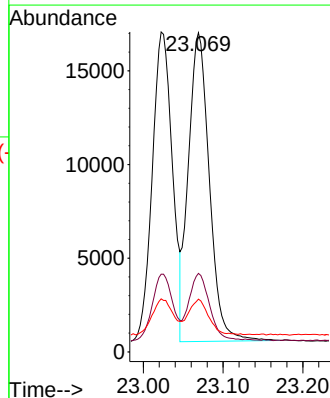
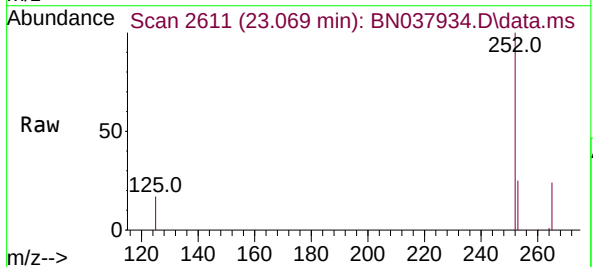
Tgt Ion:252 Resp: 30131

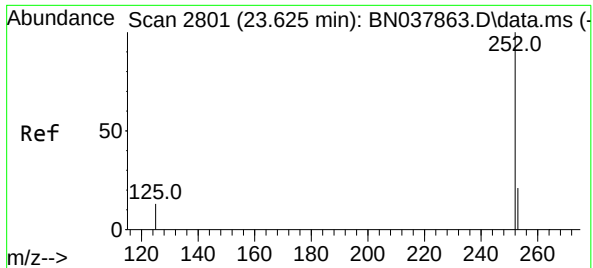
Ion Ratio Lower Upper

252 100

253 24.6 19.5 29.3

125 16.5 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.407 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD

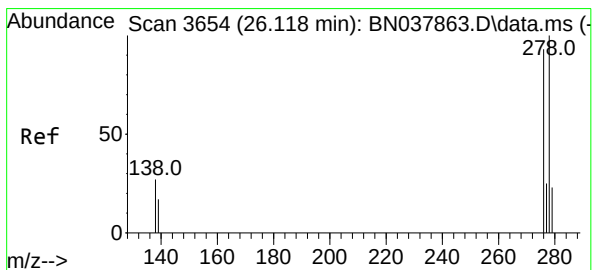
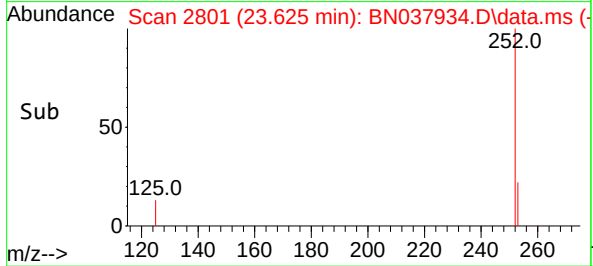
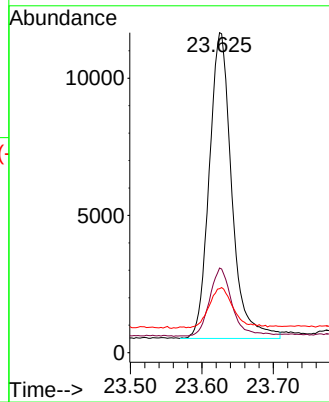
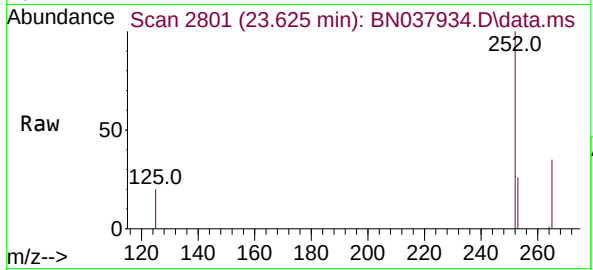
Tgt Ion:252 Resp: 24377

Ion Ratio Lower Upper

252 100

253 26.4 20.6 30.8

125 20.0 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 26.116 min Scan# 3653

Delta R.T. -0.003 min

Lab File: BN037934.D

Acq: 29 Sep 2025 13:19

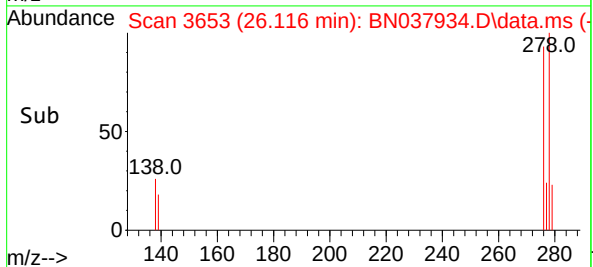
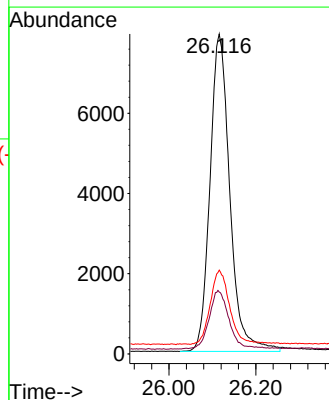
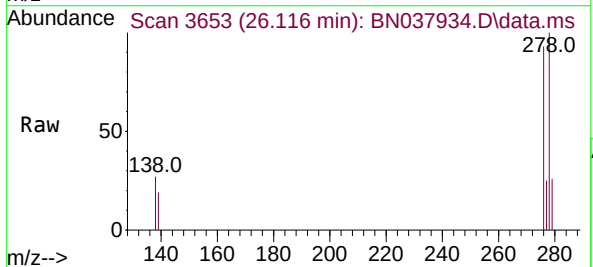
Tgt Ion:278 Resp: 25120

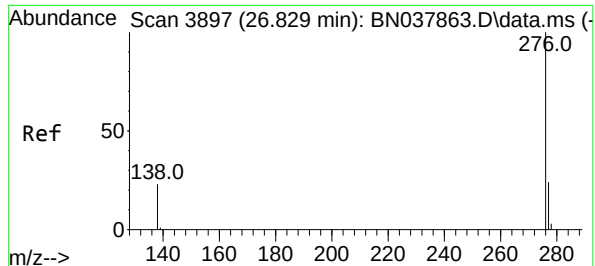
Ion Ratio Lower Upper

278 100

139 19.3 15.4 23.2

279 26.2 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037934.D

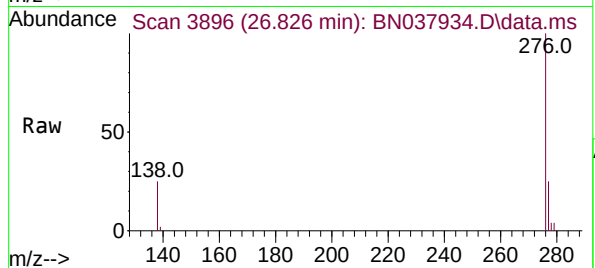
Acq: 29 Sep 2025 13:19

Instrument :

BNA_N

ClientSampleId :

PB169839BSD



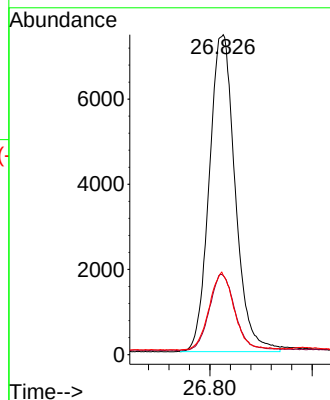
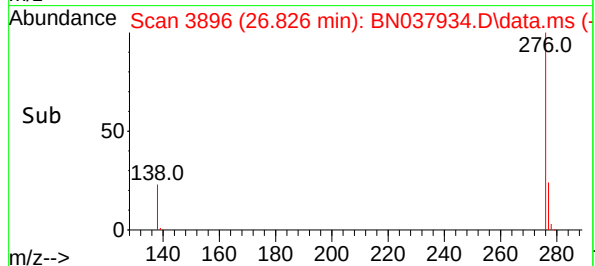
Tgt Ion:276 Resp: 26188

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.4

138 24.7 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:	BN092925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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/QCBatch ID # BN092925

Review By	rahul	Review On	9/30/2025 8:38:19 AM
Supervise By	Jagrut	Supervise On	9/30/2025 10:51:24 AM
SubDirectory	BN092925	HP Acquire Method	BNA_N, 8270_SiM 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	BN037930.D	29 Sep 2025 10:15	RC/JU	Ok
2	SSTDCCC0.4	BN037931.D	29 Sep 2025 11:30	RC/JU	Ok
3	PB169839BL	BN037932.D	29 Sep 2025 12:06	RC/JU	Ok
4	PB169839BS	BN037933.D	29 Sep 2025 12:43	RC/JU	Ok
5	PB169839BSD	BN037934.D	29 Sep 2025 13:19	RC/JU	Ok
6	Q3165-02	BN037935.D	29 Sep 2025 13:55	RC/JU	Ok
7	Q3165-04	BN037936.D	29 Sep 2025 14:32	RC/JU	Ok
8	Q3165-07	BN037937.D	29 Sep 2025 15:08	RC/JU	Ok
9	Q3156-05DL	BN037938.D	29 Sep 2025 16:57	RC/JU	Ok
10	Q3156-06DL	BN037939.D	29 Sep 2025 17:33	RC/JU	ReRun
11	Q3156-07DL	BN037940.D	29 Sep 2025 18:09	RC/JU	Ok
12	SSTDCCC0.4	BN037941.D	29 Sep 2025 18:46	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 # BN092925

Review By	rahul	Review On	9/30/2025 8:38:19 AM
Supervise By	Jagrut	Supervise On	9/30/2025 10:51:24 AM
SubDirectory	BN092925	HP Acquire Method	BNA_N, 8270_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	BN037930.D	29 Sep 2025 10:15		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037931.D	29 Sep 2025 11:30		RC/JU	Ok
3	PB169839BL	PB169839BL	BN037932.D	29 Sep 2025 12:06		RC/JU	Ok
4	PB169839BS	PB169839BS	BN037933.D	29 Sep 2025 12:43		RC/JU	Ok
5	PB169839BSD	PB169839BSD	BN037934.D	29 Sep 2025 13:19		RC/JU	Ok
6	Q3165-02	VPB184-HYD-2025091	BN037935.D	29 Sep 2025 13:55	Surrogate Fail	RC/JU	Ok
7	Q3165-04	BP-VPB-184-GW-260-2	BN037936.D	29 Sep 2025 14:32		RC/JU	Ok
8	Q3165-07	BP-VPB-184-GW-300-3	BN037937.D	29 Sep 2025 15:08		RC/JU	Ok
9	Q3156-05DL	RE132D2-20250918DL	BN037938.D	29 Sep 2025 16:57		RC/JU	Ok
10	Q3156-06DL	RE132D4-20250918DL	BN037939.D	29 Sep 2025 17:33	Internal standard fail	RC/JU	ReRun
11	Q3156-07DL	TT189D2-20250918DL	BN037940.D	29 Sep 2025 18:09		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037941.D	29 Sep 2025 18:46		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	09/25/2025
Matrix :	Water	Extraction Start Time :	11:00
Welgh By:	N/A	Extraction By:	RJ
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3953	Hood ID:	4,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	09/25/2025
		Extraction End Time :	16:00
		Concentration By:	EH
		Supervisor By :	ritesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6870
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	E3973
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

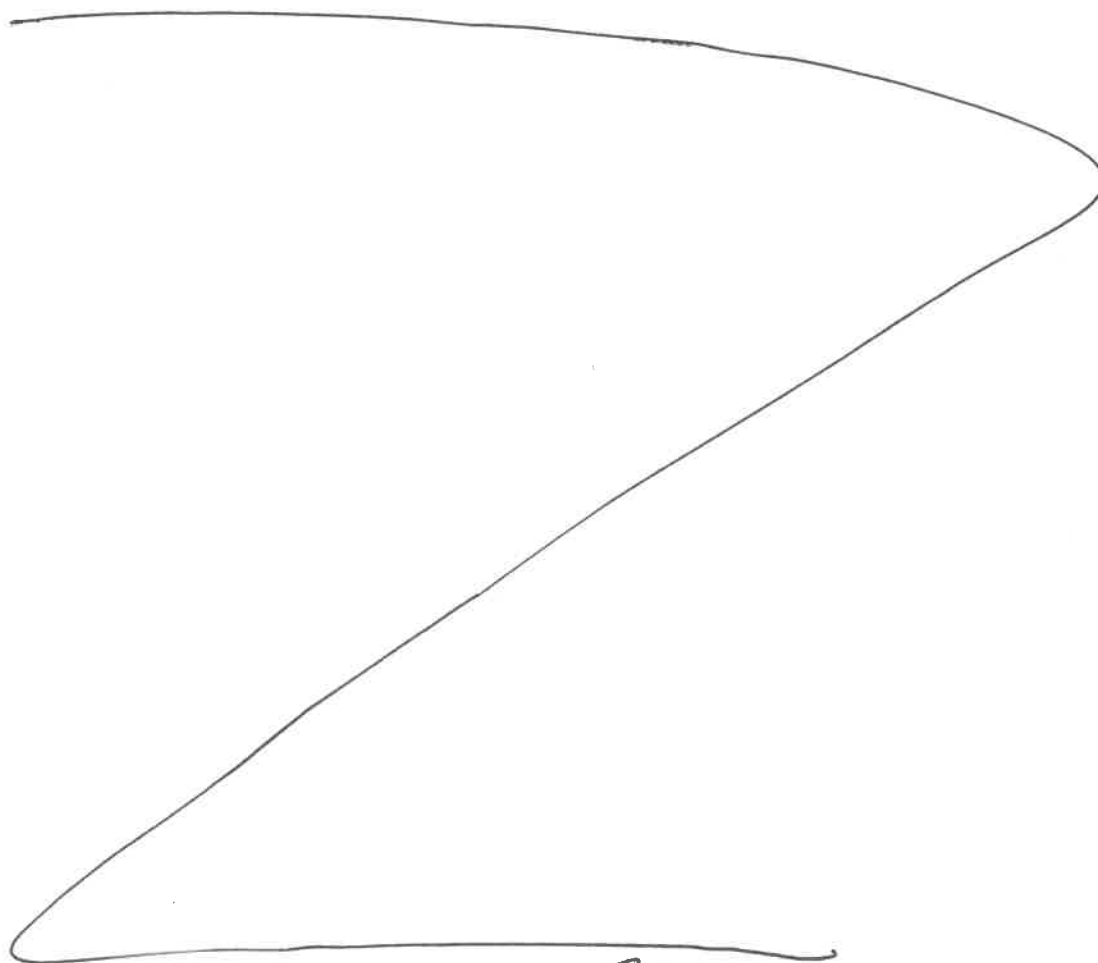
KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/25/25	RJ (EXT-106)	Rclsvoc
16:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/25/2025

Sample ID	Client Sample ID	Test	g /  mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169839BL	SBLK839	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169839BS	SLCS839	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
PB169839BS D	SLCSD839	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			3
Q3165-02	VPB184-HYD-20250919	SVOC-SIMGrou p1	900	6	ritesh	Evelyn	1	C		4
Q3165-04	BP-VPB-184-GW-260-262	SVOC-SIMGrou p1	840	6	ritesh	Evelyn	1	C		5
Q3165-07	BP-VPB-184-GW-300-302	SVOC-SIMGrou p1	760	6	ritesh	Evelyn	1	C		6



RJ
9/25

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3165 WorkList ID : 192079 Department : Extraction Date : 09-25-2025 10:05:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3165-02	VPB184-HYD-20250919	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J43	09/19/2025	8270-Modified
Q3165-04	BP-VPB-184-GW-260-262	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J43	09/19/2025	8270-Modified
Q3165-07	BP-VPB-184-GW-300-302	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J43	09/22/2025	8270-Modified

Date/Time 9/25/25 10:55
 Raw Sample Received by: R3 LEST-1046
 Raw Sample Relinquished by: OPG

Date/Time 9/25/25 11:25
 Raw Sample Received by: OPG
 Raw Sample Relinquished by: R3 LEST-1046

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Prep Standard - Chemical Standard Summary

Order ID : Q3165
Test : SVOC-SIMGroup1
Prepbatch ID : PB169839,
Sequence ID/Qc Batch ID: BN092925,

Standard ID :
EP2609,EP2610,EP2639,SP6757,SP6830,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,SP6870,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3942,E3943,E3965,E3973,M6157,S10105,S 11073,S11496,S11652,S11807,S11828,S12115,S12197,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,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	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE_2 (EX-SC-2)	None	Evelyn Huang 09/12/2025

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>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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>
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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	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

<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
								07/08/2025

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	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

<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	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay

08/05/2025

FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 +
49.92920ml of E3932 = Final Quantity: 50.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6870	09/16/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
FROM 0.00400ml of S12197 + 0.00800ml of S12220 + 0.02000ml of S11828 + 99.96800ml of E3965 = Final Quantity: 100.000 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)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

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	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

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	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °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 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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.

Certified By: Erica Castiglione
Erica Castiglione
Chemist



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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:

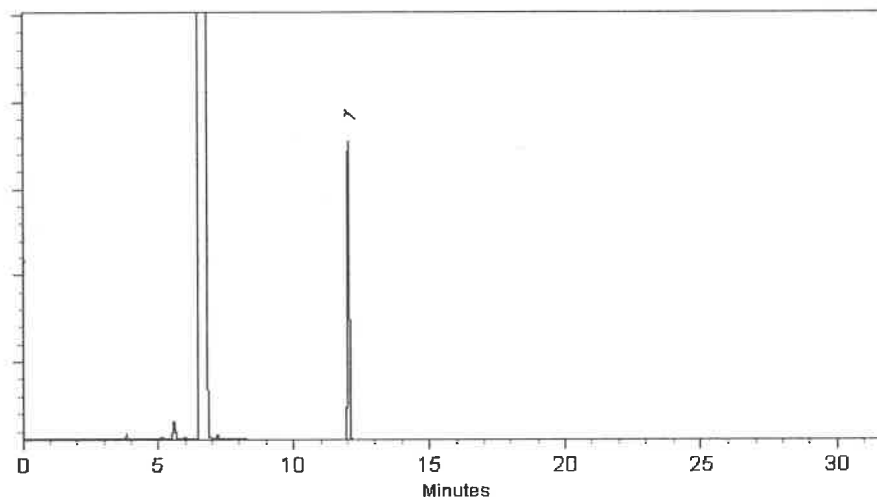
200°C

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

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

Rec on 8/20/25

E3965

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



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.

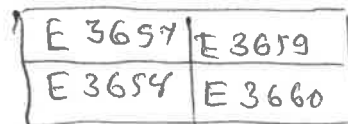
This document has been electronically produced and is valid without a signature.

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

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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

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	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	<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)

avantor™



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 Heptachlor Epoxide) 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

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

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

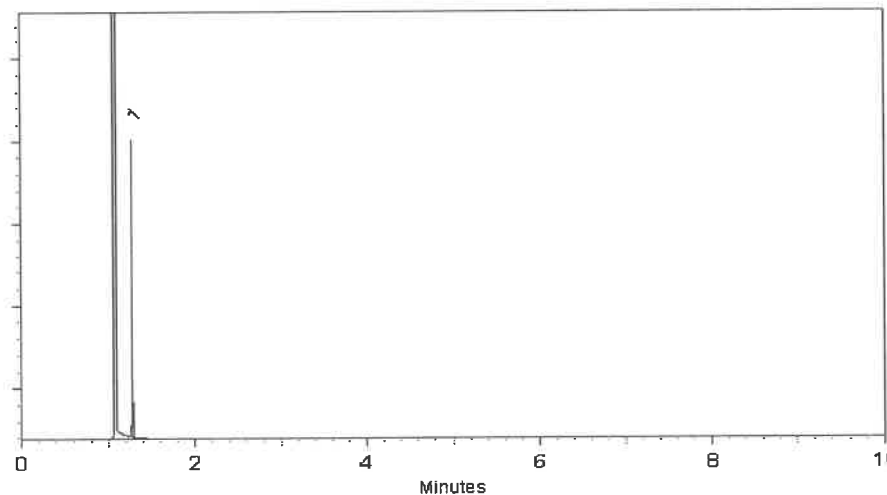
FID

Split Vent:

100 mL/min.

Inj. Vol

1µL



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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. : 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:

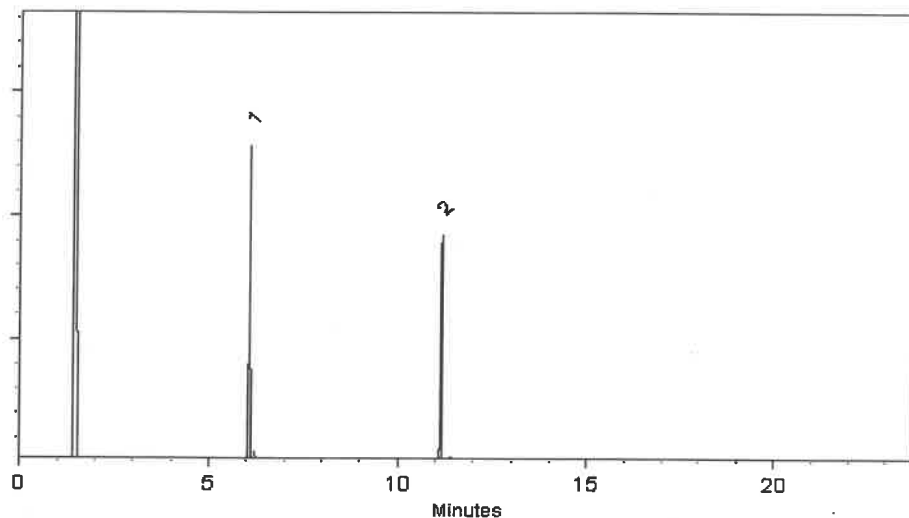
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

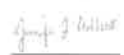


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
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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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:

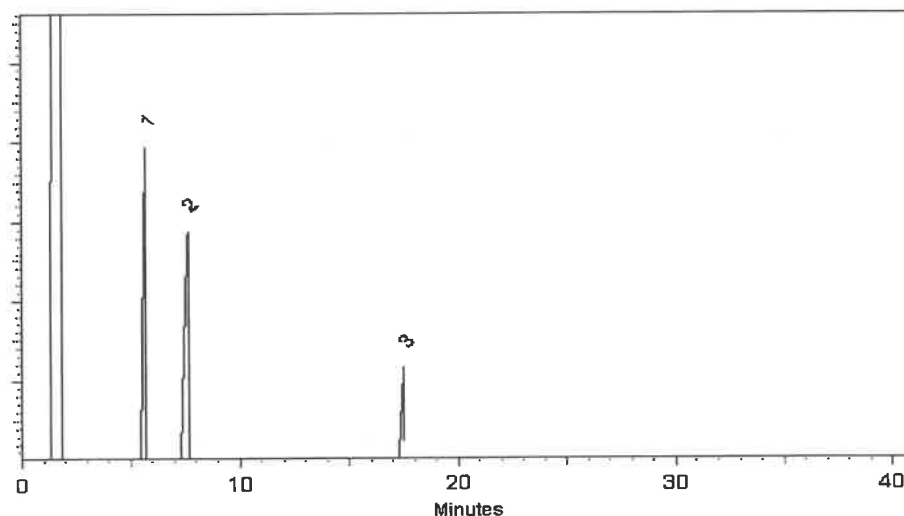
FID

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

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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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. : 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:

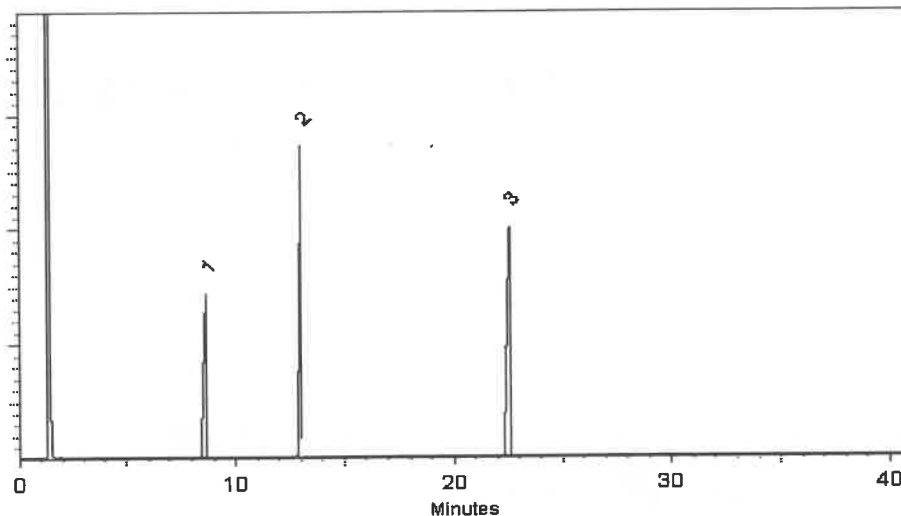
FID

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

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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by TUV USA to ISO 9001:2015

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*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

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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

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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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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gravimetric



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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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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. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

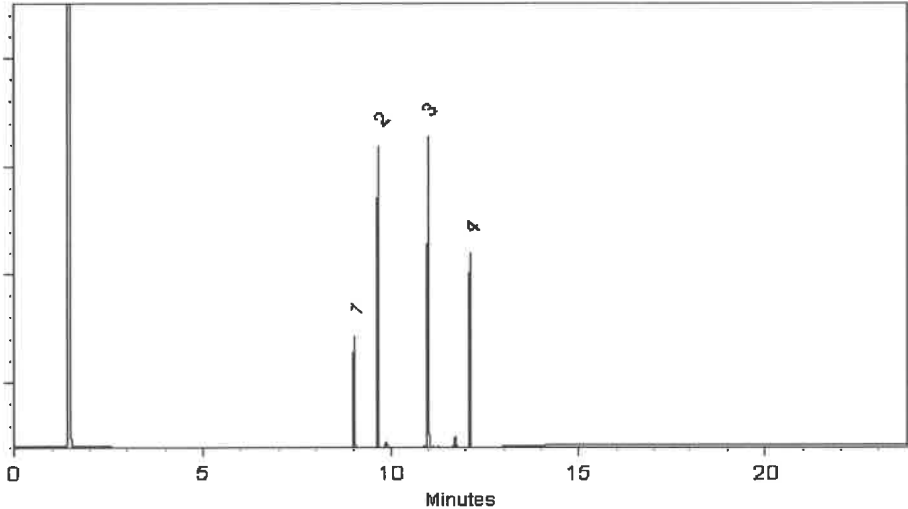
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

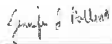
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

chromatographic plus



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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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chromatographic plus



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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.



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: Q 3165 COC Number: Q 3166																																									
CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION																																							
COMPANY: Tetra Tech				PROJECT NAME: NWIRP Bethpage				BILL TO: SEE CONTRACT					PO#																																		
ADDRESS: 4433 Corporation Lane Suite 300				PROJECT #: 112G08005-WE13 LOCATION: VPB-184				ADDRESS:																																							
CITY: Virginia Beach		STATE: VA		ZIP: 23462		PROJECT MANAGER: Ernie Wu				CITY:					STATE: ZIP:																																
ATTENTION: Ernie Wu				E-MAIL: ernie.wu@tetrattech.com				ATTENTION:					PHONE:																																		
PHONE: 757-466-4901				FAX: 757-461-4148		PHONE: 757-466-4901		FAX: 757-461-4148		ANALYSIS																																					
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				PRESERVATIVES																																							
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				☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____														COMMENTS																													
CHEMTECH SAMPLE ID				PROJECT SAMPLE IDENTIFICATION				SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles		VOC(SW846-8260B) 1,4 Dioxane (8270 SIM)																															
										COMP		GRAB													DATE		TIME		1 2 3 4 5 6 7 8 9																		
1.				BP-VPB-184-TB-20250919				QA				X		9/19/25		9:00		2		2											Trip Blank																
2.				VPB184-HYD-20250919				AQ				X		9/19/25		13:15		5		2		1		2											Hydrant Sample												
3.				BP-VPB-184-GW-240-242				AQ				X		9/19/25		10:47		3		3																											
4.				BP-VPB-184-GW-260-262				AQ				X		9/19/25		12:42		3		2		1																									
5.				BP-VPB-184-GW-280-282				AQ				X		9/22/25		10:22		3		3																											
6.				BP-VPB-184-DUP-20250922				QA				X		9/22/25		12:00		3		3															8260B Duplicate												
7.				BP-VPB-184-GW-300-302				AQ				X		9/22/25		12:22		3		2		1																									
8.				BP-VPB-184-GW-320-322				AQ				X		9/22/25		14:16		9		9															8260B MS/MSD												
9.																																															
10.																																															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																																															
RELINQUISHED BY SAMPLER				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY							
1. <i>[Signature]</i>				9/22/25				1. <i>[Signature]</i>				4-22-25				1. <i>[Signature]</i>				4-22-25				1. <i>[Signature]</i>				4-22-25				1. <i>[Signature]</i>				4-22-25				1. <i>[Signature]</i>				4-22-25			
RELINQUISHED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY				DATE/TIME				RECEIVED BY							
2.																																															
RELINQUISHED BY				DATE/TIME				RECEIVED FOR LAB BY				DATE/TIME				RECEIVED FOR LAB BY				DATE/TIME				RECEIVED FOR LAB BY				DATE/TIME				RECEIVED FOR LAB BY				DATE/TIME				RECEIVED FOR LAB BY							
3. <i>[Signature]</i>				4-22-25				3. <i>[Signature]</i>				4-22-25				3. <i>[Signature]</i>				4-22-25				3. <i>[Signature]</i>				4-22-25				3. <i>[Signature]</i>				4-22-25				3. <i>[Signature]</i>				4-22-25			
Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.0° MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: 5 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)														SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight														Shipment Complete ☐ YES ☐ NO																			
Page 1 of 1																																															
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 : Q3165	TETR06	Order Date : 9/22/2025 4:07:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 9/23/2025 6:00:00 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
Q3165-01	BP-VPB-184-TB-20250919	Water	09/19/2025	09:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-02	VPB184-HYD-20250919	Water	09/19/2025	13:15	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-03	BP-VPB-184-GW-240-242	Water	09/19/2025	10:47	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-04	BP-VPB-184-GW-260-262	Water	09/19/2025	12:42	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-05	BP-VPB-184-GW-280-282	Water	09/22/2025	10:22	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-06	BP-VPB-184-DUP-20250922	Water	09/22/2025	12:00	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-07	BP-VPB-184-GW-300-302	Water	09/22/2025	12:22	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-08	BP-VPB-184-GW-320-322	Water	09/22/2025	14:16					

LOGIN REPORT/SAMPLE TRANSFER

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Client Contact : Ernie Wu		Receive DateTime : 9/23/2025 6:00:00 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
Q3165-09	Q3165-8MS	Water	09/22/2025	14:16	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
Q3165-10	Q3165-8MSD	Water	09/22/2025	14:16	VOC-TCLVOA-10		8260-Low	5 Bus. Days	
					VOC-TCLVOA-10		8260-Low	5 Bus. Days	

Relinquished By :

Date / Time : 9/23/25 1035

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room