

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q3097

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3097

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q3097-01
Q3097-02
Q3097-03
Q3097-04
Q3097-05
Q3097-06
Q3097-07
Q3097-08
Q3097-09
Q3097-10
Q3097-11
Q3097-12
Q3097-13
Q3097-14
Q3097-15
Q3097-16
Q3097-17
Q3097-18
Q3097-19
Q3097-20
Q3097-21
Q3097-22
Q3097-23
Q3097-24
Q3097-25
Q3097-26

Client Sample Number

RE103D2-20250911
RE103D2-20250911MS
RE103D2-20250911MSD
RE125D1-20250911
RE125D3-20250911
RE103D3-20250911
RE108D2-20250911
RE125D2-20250911
RE108D1-20250911
RE120D3-20250911
RE105D1-20250911
DUP04-20250911
DUP05-20250911
RE105D2-20250911
RE117D2-20250911
TB03-20250911
TB04-20250911
TB05-20250912
RE120D1-20250912
DUP06-20250912
RE120D2-20250912
RE134D1-20250912
RE134D4-20250912
RE134D2-20250912
RE134D3-20250912
EB01-20250912

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

Signature : _____

Date: 9/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Order ID # Q3097

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

26 Water samples were received on 09/12/2025.

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.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

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.

Samples RE125D2-20250911, DUP05-20250911, RE120D1-20250912, DUP06-20250912, RE134D2-20250912 and RE134D3-20250912 were diluted due to high concentrations.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.



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

F. Manual Integration Comments:

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This 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: Q3097

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.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

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

ADDITIONAL COMMENTS:

Samples RE125D2-20250911, DUP05-20250911, RE120D1-20250912, DUP06-20250912, RE134D2-20250912 and RE134D3-20250912 were diluted due to high concentrations.

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

The not QT review data is reported in the Miscellaneous.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3097

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/26/2025

LAB CHRONICLE

OrderID:	Q3097	OrderDate:	9/12/2025 1:28:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3097-01	RE103D2-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-04	RE125D1-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-05	RE125D3-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-06	RE103D3-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-07	RE108D2-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-08	RE125D2-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-08DL	RE125D2-20250911D L	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-09	RE108D1-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/15/25	09/18/25	09/12/25
Q3097-10	RE120D3-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/16/25	09/19/25	09/12/25
Q3097-11	RE105D1-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/16/25	09/19/25	09/12/25
Q3097-12	DUP04-20250911	Water	SVOC-SIMGroup1	8270-Modified	09/11/25	09/16/25	09/19/25	09/12/25

LAB CHRONICLE

Q3097-13	DUP05-20250911	Water			09/11/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-13DL	DUP05-20250911DL	Water			09/11/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-14	RE105D2-20250911	Water			09/11/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-15	RE117D2-20250911	Water			09/11/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-19	RE120D1-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-19DL	RE120D1-20250912D L	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-20	DUP06-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/20/25	
Q3097-20DL	DUP06-20250912DL	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25	
Q3097-21	RE120D2-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-22	RE134D1-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-23	RE134D4-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-24	RE134D2-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	
Q3097-24DL	RE134D2-20250912D L	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25	
Q3097-25	RE134D3-20250912	Water			09/12/25			09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25	

LAB CHRONICLE

Q3097-25DL	RE134D3-20250912D L	Water			09/12/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/22/25
Q3097-26	EB01-20250912	Water			09/12/25		09/12/25
			SVOC-SIMGroup1	8270-Modified		09/16/25	09/19/25

Hit Summary Sheet SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE103D2-20250911								
Q3097-01	RE103D2-20250911	WATER	1,4-Dioxane	0.370		0.07	0.2	0.2	ug/L
			Total Svoc :			0.37			
			Total Concentration:			0.37			
Client ID :	RE125D1-20250911								
Q3097-04	RE125D1-20250911	WATER	1,4-Dioxane	4.700		0.07	0.2	0.2	ug/L
			Total Svoc :			4.70			
			Total Concentration:			4.70			
Client ID :	RE125D3-20250911								
Q3097-05	RE125D3-20250911	WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
			Total Svoc :			2.10			
			Total Concentration:			2.10			
Client ID :	RE103D3-20250911								
Q3097-06	RE103D3-20250911	WATER	1,4-Dioxane	0.100	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.10			
			Total Concentration:			0.10			
Client ID :	RE108D2-20250911								
Q3097-07	RE108D2-20250911	WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
			Total Svoc :			2.10			
			Total Concentration:			2.10			
Client ID :	RE125D2-20250911								
Q3097-08	RE125D2-20250911	WATER	1,4-Dioxane	7.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :			7.40			
			Total Concentration:			7.40			
Client ID :	RE125D2-20250911DL								
Q3097-08DL	RE125D2-20250911DL	WATER	1,4-Dioxane	8.200	D	0.33	1	1	ug/L
			Total Svoc :			8.20			
			Total Concentration:			8.20			
Client ID :	RE108D1-20250911								
Q3097-09	RE108D1-20250911	WATER	1,4-Dioxane	2.800		0.07	0.2	0.2	ug/L
			Total Svoc :			2.80			
			Total Concentration:			2.80			
Client ID :	RE120D3-20250911								
Q3097-10	RE120D3-20250911	WATER	1,4-Dioxane	0.140	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.14			

Hit Summary Sheet SW-846

SDG No.: Q3097
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	0.14					
Client ID : Q3097-11	RE105D1-20250911 RE105D1-20250911	WATER	1,4-Dioxane	3.200		0.07	0.2	0.2	ug/L
			Total Svoc :	3.20					
			Total Concentration:	3.20					
Client ID : Q3097-12	DUP04-20250911 DUP04-20250911	WATER	1,4-Dioxane	3.700		0.07	0.2	0.2	ug/L
			Total Svoc :	3.70					
			Total Concentration:	3.70					
Client ID : Q3097-13	DUP05-20250911 DUP05-20250911	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :	5.20					
			Total Concentration:	5.20					
Client ID : Q3097-13DL	DUP05-20250911DL DUP05-20250911DL	WATER	1,4-Dioxane	4.500	D	0.13	0.4	0.4	ug/L
			Total Svoc :	4.50					
			Total Concentration:	4.50					
Client ID : Q3097-14	RE105D2-20250911 RE105D2-20250911	WATER	1,4-Dioxane	3.100		0.07	0.2	0.2	ug/L
			Total Svoc :	3.10					
			Total Concentration:	3.10					
Client ID : Q3097-19	RE120D1-20250912 RE120D1-20250912	WATER	1,4-Dioxane	7.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :	7.00					
			Total Concentration:	7.00					
Client ID : Q3097-19DL	RE120D1-20250912DL RE120D1-20250912DL	WATER	1,4-Dioxane	5.100	D	0.13	0.4	0.4	ug/L
			Total Svoc :	5.10					
			Total Concentration:	5.10					
Client ID : Q3097-20	DUP06-20250912 DUP06-20250912	WATER	1,4-Dioxane	7.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :	7.40					
			Total Concentration:	7.40					
Client ID : Q3097-20DL	DUP06-20250912DL DUP06-20250912DL	WATER	1,4-Dioxane	7.700	D	0.13	0.4	0.4	ug/L
			Total Svoc :	7.70					

Hit Summary Sheet SW-846

SDG No.: Q3097
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	7.70					
Client ID : Q3097-21	RE120D2-20250912 RE120D2-20250912	WATER	1,4-Dioxane	3.200		0.07	0.2	0.2	ug/L
			Total Svoc :	3.20					
			Total Concentration:	3.20					
Client ID : Q3097-22	RE134D1-20250912 RE134D1-20250912	WATER	1,4-Dioxane	1.100		0.07	0.2	0.2	ug/L
			Total Svoc :	1.10					
			Total Concentration:	1.10					
Client ID : Q3097-23	RE134D4-20250912 RE134D4-20250912	WATER	1,4-Dioxane	1.500		0.07	0.2	0.2	ug/L
			Total Svoc :	1.50					
			Total Concentration:	1.50					
Client ID : Q3097-24	RE134D2-20250912 RE134D2-20250912	WATER	1,4-Dioxane	6.700 E	0.07		0.2	0.2	ug/L
			Total Svoc :	6.70					
			Total Concentration:	6.70					
Client ID : Q3097-24DL	RE134D2-20250912DL RE134D2-20250912DL	WATER	1,4-Dioxane	6.500 D	0.13		0.4	0.4	ug/L
			Total Svoc :	6.50					
			Total Concentration:	6.50					
Client ID : Q3097-25	RE134D3-20250912 RE134D3-20250912	WATER	1,4-Dioxane	5.700 E	0.07		0.2	0.2	ug/L
			Total Svoc :	5.70					
			Total Concentration:	5.70					
Client ID : Q3097-25DL	RE134D3-20250912DL RE134D3-20250912DL	WATER	1,4-Dioxane	6.800 D	0.13		0.4	0.4	ug/L
			Total Svoc :	6.80					
			Total Concentration:	6.80					
Client ID : Q3097-26	EB01-20250912 EB01-20250912	WATER	1,4-Dioxane	0.110 J	0.07		0.2	0.2	ug/L
			Total Svoc :	0.11					
			Total Concentration:	0.11					



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169693BL	PB169693BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169693BS	PB169693BS	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.32	81		58	132
Q3097-01	RE103D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q3097-02MS	RE103D2-20250911MS	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q3097-03MSD	RE103D2-20250911MSD	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q3097-04	RE125D1-20250911	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q3097-05	RE125D3-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-06	RE103D3-20250911	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q3097-07	RE108D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-08	RE125D2-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3097-08DL	RE125D2-20250911DL	2-Methylnaphthalene-d10	0.4	0.29	72		30	150

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3097-08DL	RE125D2-20250911DL	Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
Q3097-09	RE108D1-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.42	104		58	132

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169712BL	PB169712BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
PB169712BS	PB169712BS	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.34	86		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB169712BSD	PB169712BSD	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q3097-10	RE120D3-20250911	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3097-11	RE105D1-20250911	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q3097-12	DUP04-20250911	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q3097-13	DUP05-20250911	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q3097-13DL	DUP05-20250911DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.36	89		58	132
Q3097-14	RE105D2-20250911	2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q3097-15	RE117D2-20250911	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.35	86		58	132
Q3097-19	RE120D1-20250912	2-Methylnaphthalene-d10	0.4	0.26	65		30	150

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3097-19	RE120D1-20250912	Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.37	94		58	132
Q3097-19DL	RE120D1-20250912DL	2-Methylnaphthalene-d10	0.4	0.18	46		30	150
		Fluoranthene-d10	0.4	0.22	56		30	150
		Nitrobenzene-d5	0.4	0.23	58		55	111
		2-Fluorobiphenyl	0.4	0.22	54		53	106
Q3097-20	DUP06-20250912	Terphenyl-d14	0.4	0.27	67		58	132
		2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
Q3097-20DL	DUP06-20250912DL	2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
Q3097-21	RE120D2-20250912	Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
Q3097-22	RE134D1-20250912	Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q3097-23	RE134D4-20250912	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
Q3097-24	RE134D2-20250912	Terphenyl-d14	0.4	0.41	103		58	132
		2-Methylnaphthalene-d10	0.4	0.27	67		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q3097-24DL	RE134D2-20250912DL	2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
		2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
Q3097-25	RE134D3-20250912	Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
		2-Methylnaphthalene-d10	0.4	0.28	70		30	150
Q3097-25DL	RE134D3-20250912DL	Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
Q3097-25DL	RE134D3-20250912DL	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
Q3097-25DL	RE134D3-20250912DL	Terphenyl-d14	0.4	0.41	102		58	132
		2-Methylnaphthalene-d10	0.4	0.28	69		30	150
Q3097-25DL	RE134D3-20250912DL	Fluoranthene-d10	0.4	0.36	91		30	150

Surrogate Summary

SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3097-25DL	RE134D3-20250912DL	Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q3097-26	EB01-20250912	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.39	98		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037772.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3097-02MS		Client Sample ID: RE103D2-20250911MS									
1,4-Dioxane	0.4	0.37	0.72	ug/L	88				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097

Analytical Method: SW8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037773.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3097-03MSD	Client Sample ID:	RE103D2-20250911MSD								
1,4-Dioxane	0.4	0.37	0.73	ug/L	90		2		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3097</u>	Analytical Method: <u>8270-Modified</u>
Client: <u>AECOM Technical Services, Inc.</u>	DataFile: <u>BN037792.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169693BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3097

Analytical Method: 8270-Modified

Client: AECOM Technical Services, Inc.

DataFile: BN037885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169712BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3097</u>	Analytical Method:	<u>8270-Modified</u>
Client:	<u>AECOM Technical Services, Inc.</u>	DataFile:	<u>BN037888.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169712BSD	1,4-Dioxane	0.4	0.33	ug/L	83	6			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169693BL

Lab Name: Alliance

Contract: AECO15

Lab Code: ACE

SDG NO.: Q3097

Lab File ID: BN037777.D

Lab Sample ID: PB169693BL

Instrument ID: BNA_N

Date Extracted: 09/15/2025

Matrix: (soil/water) Water

Date Analyzed: 09/18/2025

Level: (low/med) LOW

Time Analyzed: 15:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE108D1-20250911	Q3097-09	BN037778.D	09/18/2025
RE125D1-20250911	Q3097-04	BN037779.D	09/18/2025
RE125D3-20250911	Q3097-05	BN037780.D	09/18/2025
RE103D3-20250911	Q3097-06	BN037781.D	09/18/2025
PB169693BS	PB169693BS	BN037792.D	09/19/2025
RE103D2-20250911	Q3097-01	BN037771.D	09/18/2025
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025
RE108D2-20250911	Q3097-07	BN037769.D	09/18/2025
RE125D2-20250911	Q3097-08	BN037770.D	09/18/2025
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169712BL

Lab Name: Alliance

Contract: AECO15

Lab Code: ACE

SDG NO.: Q3097

Lab File ID: BN037872.D

Lab Sample ID: PB169712BL

Instrument ID: BNA_N

Date Extracted: 09/16/2025

Matrix: (soil/water) Water

Date Analyzed: 09/24/2025

Level: (low/med) LOW

Time Analyzed: 10:32

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169712BS	PB169712BS	BN037885.D	09/25/2025
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025
RE120D3-20250911	Q3097-10	BN037801.D	09/19/2025
RE105D1-20250911	Q3097-11	BN037802.D	09/19/2025
DUP04-20250911	Q3097-12	BN037803.D	09/19/2025
DUP05-20250911	Q3097-13	BN037804.D	09/19/2025
RE105D2-20250911	Q3097-14	BN037805.D	09/19/2025
RE117D2-20250911	Q3097-15	BN037806.D	09/19/2025
RE120D1-20250912	Q3097-19	BN037807.D	09/19/2025
RE120D2-20250912	Q3097-21	BN037819.D	09/19/2025
RE134D1-20250912	Q3097-22	BN037820.D	09/19/2025
RE134D4-20250912	Q3097-23	BN037821.D	09/19/2025
RE134D2-20250912	Q3097-24	BN037822.D	09/19/2025
RE134D3-20250912	Q3097-25	BN037823.D	09/19/2025
EB01-20250912	Q3097-26	BN037824.D	09/19/2025
DUP06-20250912	Q3097-20	BN037844.D	09/20/2025

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: BN037689.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/11/2025
DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1) 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	6.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	79.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.5 (20.4) 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	BN037691.D	09/11/2025	09:56
SSTDICC0.2	SSTDICC0.2	BN037692.D	09/11/2025	10:32
SSTDICCC0.4	SSTDICCC0.4	BN037693.D	09/11/2025	11:08
SSTDICC0.8	SSTDICC0.8	BN037694.D	09/11/2025	11:44
SSTDICC1.6	SSTDICC1.6	BN037695.D	09/11/2025	12:20
SSTDICC3.2	SSTDICC3.2	BN037696.D	09/11/2025	12:56
SSTDICC5.0	SSTDICC5.0	BN037697.D	09/11/2025	13:33



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037758.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/18/2025
DFTPP Injection Time: 02:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.1) 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	6.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	86.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.5 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037759.D	09/18/2025	02:46
RE108D2-20250911	Q3097-07	BN037769.D	09/18/2025	08:47
RE125D2-20250911	Q3097-08	BN037770.D	09/18/2025	09:23
RE103D2-20250911	Q3097-01	BN037771.D	09/18/2025	10:00
RE103D2-20250911MS	Q3097-02MS	BN037772.D	09/18/2025	11:48
RE103D2-20250911MSD	Q3097-03MSD	BN037773.D	09/18/2025	12:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037774.D	09/18/2025	13:16



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037775.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/18/2025
DFTPP Injection Time: 13:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 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	7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	85.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037776.D	09/18/2025	14:32
PB169693BL	PB169693BL	BN037777.D	09/18/2025	15:10
RE108D1-20250911	Q3097-09	BN037778.D	09/18/2025	15:47
RE125D1-20250911	Q3097-04	BN037779.D	09/18/2025	16:23
RE125D3-20250911	Q3097-05	BN037780.D	09/18/2025	17:00
RE103D3-20250911	Q3097-06	BN037781.D	09/18/2025	17:36
RE125D2-20250911DL	Q3097-08DL	BN037790.D	09/18/2025	23:03
PB169693BS	PB169693BS	BN037792.D	09/19/2025	00:16
SSTDCCC0.4EC	SSTDCCC0.4	BN037793.D	09/19/2025	00:52



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037794.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/19/2025
DFTPP Injection Time: 02:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	86.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.3) 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	BN037795.D	09/19/2025	02:47
RE120D3-20250911	Q3097-10	BN037801.D	09/19/2025	06:25
RE105D1-20250911	Q3097-11	BN037802.D	09/19/2025	07:01
DUP04-20250911	Q3097-12	BN037803.D	09/19/2025	07:37
DUP05-20250911	Q3097-13	BN037804.D	09/19/2025	08:13
RE105D2-20250911	Q3097-14	BN037805.D	09/19/2025	08:49
RE117D2-20250911	Q3097-15	BN037806.D	09/19/2025	09:25
RE120D1-20250912	Q3097-19	BN037807.D	09/19/2025	10:02
SSTDCCC0.4EC	SSTDCCC0.4	BN037811.D	09/19/2025	13:03



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037812.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/19/2025
DFTPP Injection Time: 13:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.4) 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	6.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	80.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.9 (20.1) 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	BN037813.D	09/19/2025	14:19
DUP05-20250911DL	Q3097-13DL	BN037817.D	09/19/2025	16:45
RE120D1-20250912DL	Q3097-19DL	BN037818.D	09/19/2025	17:21
RE120D2-20250912	Q3097-21	BN037819.D	09/19/2025	17:58
RE134D1-20250912	Q3097-22	BN037820.D	09/19/2025	18:34
RE134D4-20250912	Q3097-23	BN037821.D	09/19/2025	19:11
RE134D2-20250912	Q3097-24	BN037822.D	09/19/2025	19:47
RE134D3-20250912	Q3097-25	BN037823.D	09/19/2025	20:24
EB01-20250912	Q3097-26	BN037824.D	09/19/2025	21:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037830.D	09/20/2025	00:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037831.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/20/2025
DFTPP Injection Time: 01:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (1.9) 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	6.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	81.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (20.2) 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	BN037832.D	09/20/2025	02:35
DUP06-20250912	Q3097-20	BN037844.D	09/20/2025	09:51
SSTDCCC0.4EC	SSTDCCC0.4	BN037847.D	09/20/2025	11:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037848.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/22/2025
DFTPP Injection Time: 08:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	78.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.7) 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	BN037849.D	09/22/2025	10:19
RE134D2-20250912DL	Q3097-24DL	BN037851.D	09/22/2025	11:31
RE134D3-20250912DL	Q3097-25DL	BN037852.D	09/22/2025	12:08
DUP06-20250912DL	Q3097-20DL	BN037858.D	09/22/2025	15:45
SSTDCCC0.4EC	SSTDCCC0.4	BN037859.D	09/22/2025	16:39



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

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

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037870.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/24/2025
DFTPP Injection Time: 09:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	79.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.1) 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	BN037871.D	09/24/2025	09:54
PB169712BL	PB169712BL	BN037872.D	09/24/2025	10:32
SSTDCCC0.4EC	SSTDCCC0.4	BN037881.D	09/24/2025	18:52



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037882.D
Instrument ID: BNA_N

Contract: AECO15
SDG NO.: Q3097
DFTPP Injection Date: 09/25/2025
DFTPP Injection Time: 10:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (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	7.1
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	81.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037883.D	09/25/2025	11:31
PB169712BS	PB169712BS	BN037885.D	09/25/2025	12:44
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025	14:34
SSTDCCC0.4EC	SSTDCCC0.4	BN037901.D	09/25/2025	22:31

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037759.D

Time Analyzed: 02:46

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	8012	7.833	21664	10.64	10192	14.48
UPPER LIMIT	16024	8.333	43328	11.137	20384	14.984
LOWER LIMIT	4006	7.333	10832	10.137	5096	13.984
EPA SAMPLE NO.						
01 RE125D2-20250911	6450	7.83	17916	10.64	8773	14.48
02 RE103D2-20250911	8062	7.83	22030	10.64	10128	14.48
03 RE103D2-20250911MS	7218	7.83	19437	10.64	8792	14.48
04 RE103D2-20250911MSD	7159	7.83	19099	10.64	8494	14.48
05 RE108D2-20250911	7633	7.83	20699	10.64	9180	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037759.D

Time Analyzed: 02:46

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	18613	17.235	16797	21.411	18043	23.741
UPPER LIMIT	37226	17.735	33594	21.911	36086	24.241
LOWER LIMIT	9306.5	16.735	8398.5	20.911	9021.5	23.241
EPA SAMPLE NO.						
01 RE125D2-20250911	17405	17.24	15996	21.41	16222	23.74
02 RE103D2-20250911	18234	17.24	14812	21.41	15070	23.75
03 RE103D2-20250911MS	14560	17.24	11077	21.41	10712	23.74
04 RE103D2-20250911MSD	14218	17.24	11982	21.41	11726	23.75
05 RE108D2-20250911	15761	17.24	12936	21.41	13802	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037776.D

Time Analyzed: 14:32

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	7127	7.833	18984	10.64	8698	14.48
UPPER LIMIT	14254	8.333	37968	11.137	17396	14.984
LOWER LIMIT	3563.5	7.333	9492	10.137	4349	13.984
EPA SAMPLE NO.						
01 PB169693BL	6667	7.84	17045	10.64	7049	14.48
02 RE108D1-20250911	6091	7.83	16121	10.64	7264	14.48
03 RE125D1-20250911	6931	7.83	18212	10.64	8174	14.48
04 RE125D3-20250911	7245	7.83	19496	10.64	8745	14.48
05 PB169693BS	7441	7.83	19392	10.64	8149	14.48
06 RE103D3-20250911	6672	7.83	17743	10.64	7701	14.48
07 RE125D2-20250911DL	6110	7.83	16499	10.64	7574	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/18/2025

Lab File ID: BN037776.D

Time Analyzed: 14:32

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	14526	17.235	10438	21.411	10600	23.744
UPPER LIMIT	29052	17.735	20876	21.911	21200	24.244
LOWER LIMIT	7263	16.735	5219	20.911	5300	23.244
EPA SAMPLE NO.						
01 PB169693BL	11652	17.24	9221	21.41	9002	23.75
02 RE108D1-20250911	13940	17.24	12095	21.41	11352	23.75
03 RE125D1-20250911	15954	17.24	14259	21.41	14695	23.75
04 RE125D3-20250911	15845	17.24	13110	21.41	12712	23.75
05 PB169693BS	12386	17.24	10095	21.41	10200	23.74
06 RE103D3-20250911	13778	17.24	11339	21.41	11507	23.74
07 RE125D2-20250911DL	14919	17.24	12875	21.40	12853	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037795.D

Time Analyzed: 02:47

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	7724	7.833	19361	10.64	8621	14.48
UPPER LIMIT	15448	8.333	38722	11.137	17242	14.984
LOWER LIMIT	3862	7.333	9680.5	10.137	4310.5	13.984
EPA SAMPLE NO.						
01 RE120D3-20250911	6805	7.83	16558	10.64	7363	14.48
02 RE105D1-20250911	6841	7.83	16631	10.64	7228	14.48
03 DUP04-20250911	6422	7.83	16969	10.64	7436	14.48
04 DUP05-20250911	5966	7.83	15958	10.64	7282	14.48
05 RE105D2-20250911	6733	7.83	16370	10.64	7362	14.48
06 RE117D2-20250911	5758	7.83	15439	10.64	7097	14.48
07 RE120D1-20250912	5776	7.83	15322	10.64	6856	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037795.D

Time Analyzed: 02:47

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	14380	17.235	11169	21.411	11840	23.742
UPPER LIMIT	28760	17.735	22338	21.911	23680	24.242
LOWER LIMIT	7190	16.735	5584.5	20.911	5920	23.242
EPA SAMPLE NO.						
01 RE120D3-20250911	12865	17.24	10547	21.41	10142	23.74
02 RE105D1-20250911	12396	17.24	9967	21.41	9393	23.74
03 DUP04-20250911	12905	17.24	10811	21.41	9925	23.74
04 DUP05-20250911	14121	17.24	13292	21.41	12196	23.74
05 RE105D2-20250911	13809	17.24	11974	21.41	11341	23.74
06 RE117D2-20250911	13316	17.24	11984	21.41	11150	23.74
07 RE120D1-20250912	12918	17.24	11066	21.41	10367	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037813.D

Time Analyzed: 14:19

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	4812	7.833	12410	10.64	5585	14.48
UPPER LIMIT	9624	8.333	24820	11.137	11170	14.984
LOWER LIMIT	2406	7.333	6205	10.137	2792.5	13.984
EPA SAMPLE NO.						
01 EB01-20250912	4515	7.83	12030	10.64	5004	14.48
02 RE120D2-20250912	4690	7.83	12247	10.64	5203	14.48
03 RE134D1-20250912	4623	7.83	12153	10.64	5319	14.48
04 RE134D4-20250912	4710	7.83	14487	10.64	6237	14.48
05 RE134D2-20250912	4342	7.83	12538	10.64	4964	14.48
06 RE134D3-20250912	5215	7.83	13534	10.64	5080	14.48
07 DUP05-20250911DL	5661	7.83	14750	10.64	6209	14.48
08 RE120D1-20250912DL	8131	7.83	21334	10.64	9041	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/19/2025

Lab File ID: BN037813.D

Time Analyzed: 14:19

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	9638	17.235	8466	21.411	8084	23.739
UPPER LIMIT	19276	17.735	16932	21.911	16168	24.239
LOWER LIMIT	4819	16.735	4233	20.911	4042	23.239
EPA SAMPLE NO.						
01 EB01-20250912	8479	17.22	7497	21.40	7192	23.74
02 RE120D2-20250912	9585	17.24	7866	21.41	7673	23.74
03 RE134D1-20250912	10150	17.24	9405	21.41	8969	23.74
04 RE134D4-20250912	11940	17.24	10042	21.41	9356	23.74
05 RE134D2-20250912	9435	17.24	8486	21.41	8219	23.74
06 RE134D3-20250912	9523	17.22	8588	21.40	8162	23.74
07 DUP05-20250911DL	10700	17.24	9109	21.41	8982	23.74
08 RE120D1-20250912DL	15081	17.24	11372	21.41	11377	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/20/2025

Lab File ID: BN037832.D

Time Analyzed: 02:35

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	6232	7.825	16500	10.64	7183	14.48
UPPER LIMIT	12464	8.325	33000	11.137	14366	14.984
LOWER LIMIT	3116	7.325	8250	10.137	3591.5	13.984
EPA SAMPLE NO.						
01 DUP06-20250912	5678	7.83	14769	10.63	5979	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/20/2025

Lab File ID: BN037832.D

Time Analyzed: 02:35

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	11907	17.223	9777	21.402	10066	23.736
UPPER LIMIT	23814	17.723	19554	21.902	20132	24.236
LOWER LIMIT	5953.5	16.723	4888.5	20.902	5033	23.236
EPA SAMPLE NO.						
01 DUP06-20250912	10331	17.22	8651	21.40	8407	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/22/2025

Lab File ID: BN037849.D

Time Analyzed: 10:19

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	6007	7.833	15935	10.64	7024	14.48
UPPER LIMIT	12014	8.333	31870	11.137	14048	14.984
LOWER LIMIT	3003.5	7.333	7967.5	10.137	3512	13.984
EPA SAMPLE NO.						
01 DUP06-20250912DL	5114	7.83	13234	10.63	5436	14.47
02 RE134D2-20250912DL	5950	7.83	15397	10.63	6317	14.48
03 RE134D3-20250912DL	6180	7.83	16337	10.63	6729	14.48

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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/22/2025

Lab File ID: BN037849.D

Time Analyzed: 10:19

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	11177	17.223	8688	21.411	8600	23.738
UPPER LIMIT	22354	17.723	17376	21.911	17200	24.238
LOWER LIMIT	5588.5	16.723	4344	20.911	4300	23.238
EPA SAMPLE NO.						
01 DUP06-20250912DL	9913	17.22	8645	21.40	8016	23.74
02 RE134D2-20250912DL	11463	17.22	10054	21.40	9647	23.74
03 RE134D3-20250912DL	12081	17.22	10388	21.40	9986	23.74

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/24/2025

Lab File ID: BN037871.D

Time Analyzed: 09:54

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	6027	7.818	16875	10.63	8790	14.47
UPPER LIMIT	12054	8.318	33750	11.126	17580	14.973
LOWER LIMIT	3013.5	7.318	8437.5	10.126	4395	13.973
EPA SAMPLE NO.						
01 PB169712BL	6892	7.83	18348	10.63	8435	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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/24/2025

Lab File ID: BN037871.D

Time Analyzed: 09:54

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	17707	17.223	15660	21.402	14846	23.735
UPPER LIMIT	35414	17.723	31320	21.902	29692	24.235
LOWER LIMIT	8853.5	16.723	7830	20.902	7423	23.235
EPA SAMPLE NO.						
01 PB169712BL	16554	17.22	13474	21.40	12150	23.73

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3097

Client ID : SSTDCCC0.4

Date Analyzed: 09/25/2025

Lab File ID: BN037883.D

Time Analyzed: 11:31

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	5686	7.818	16943	10.63	8938	14.47
UPPER LIMIT	11372	8.318	33886	11.126	17876	14.973
LOWER LIMIT	2843	7.318	8471.5	10.126	4469	13.973
EPA SAMPLE NO.						
01 PB169712BS	7082	7.82	19552	10.63	9660	14.47
02 PB169712BSD	6836	7.83	18512	10.63	8848	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.: Q3097

Client ID: SSTDCCC0.4

Date Analyzed: 09/25/2025

Lab File ID: BN037883.D

Time Analyzed: 11:31

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	18224	17.223	15951	21.402	15181	23.73
UPPER LIMIT	36448	17.723	31902	21.902	30362	24.23
LOWER LIMIT	9112	16.723	7975.5	20.902	7590.5	23.23
EPA SAMPLE NO.						
01 PB169712BS	19122	17.22	15460	21.40	13073	23.73
02 PB169712BSD	16966	17.22	11857	21.40	9036	23.74

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-01	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
BN037771.D	1	09/15/25 12:00	09/18/25 10:00	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8060	7.833				
1146-65-2	Naphthalene-d8	22000	10.637				
15067-26-2	Acenaphthene-d10	10100	14.484				
1517-22-2	Phenanthrene-d10	18200	17.235				
1719-03-5	Chrysene-d12	14800	21.411				
1520-96-3	Perylene-d12	15100	23.747				

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\BN091725\
Data File : BN037771.D
Acq On : 18 Sep 2025 10:00
Operator : RC/JU
Sample : Q3097-01
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Quant Time: Sep 18 10:46:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

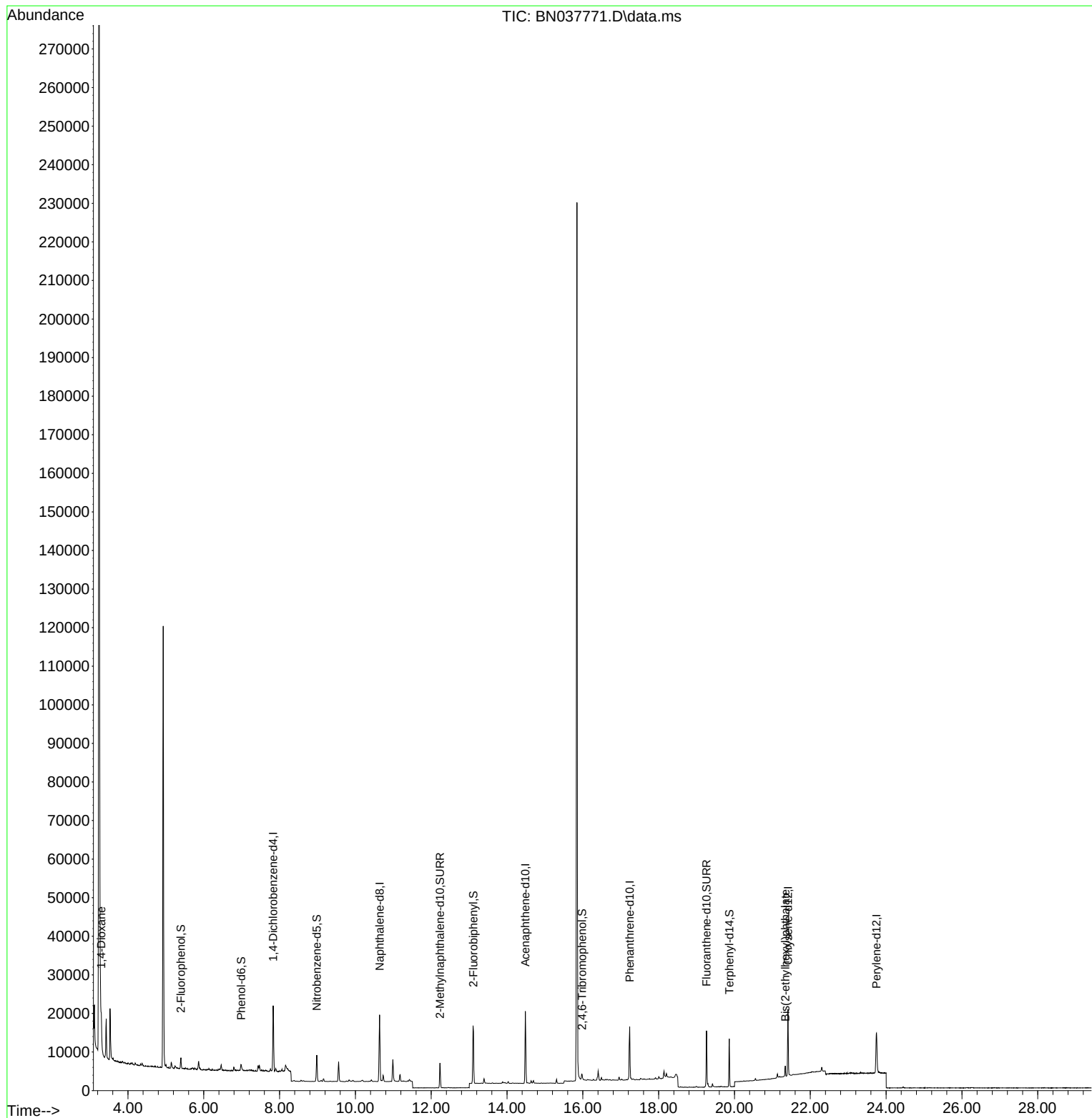
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8062	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	22030	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10128	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18234	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14812	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	15070	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2208	0.119	ng	0.00
5) Phenol-d6	6.988	99	1567	0.065	ng	0.00
8) Nitrobenzene-d5	8.982	82	5146	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	8314	0.285	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	990	0.375	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	13153	0.311	ng	0.00
27) Fluoranthene-d10	19.262	212	15813	0.345	ng	0.00
31) Terphenyl-d14	19.861	244	11370	0.378	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	3093	0.368	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.340	149	2775	0.181	ng	97

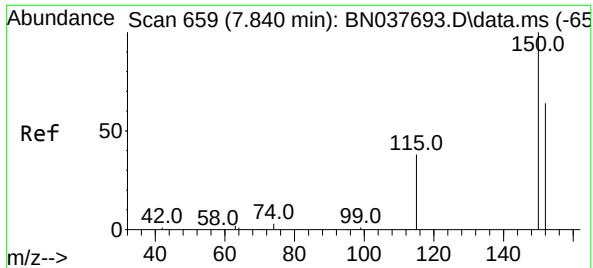
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037771.D
Acq On : 18 Sep 2025 10:00
Operator : RC/JU
Sample : Q3097-01
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

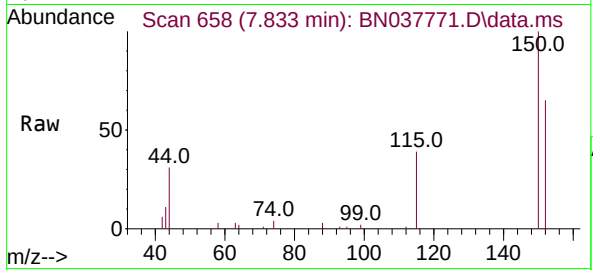
Quant Time: Sep 18 10:46:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



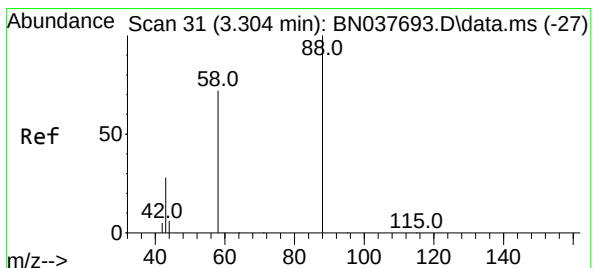
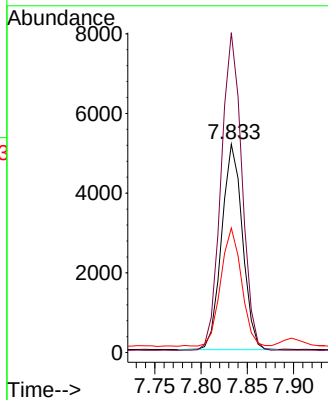
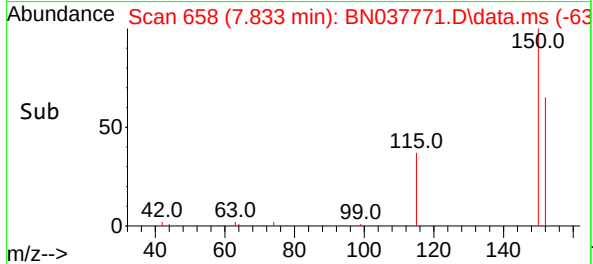


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

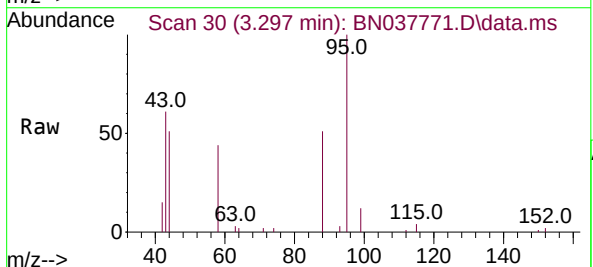
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911



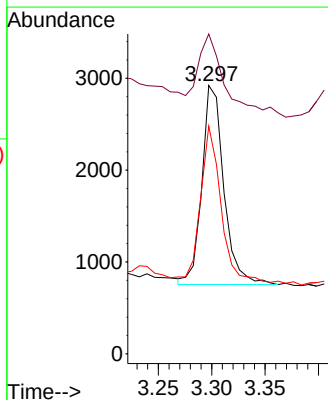
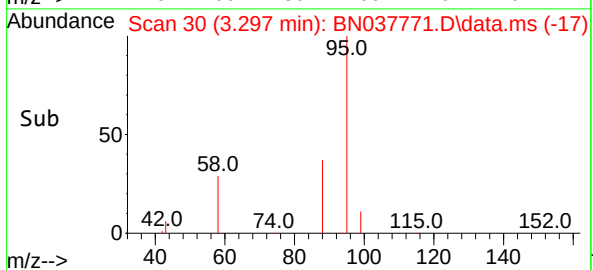
Tgt Ion:152 Resp: 8062
Ion Ratio Lower Upper
152 100
150 153.6 124.5 186.7
115 59.8 49.2 73.8

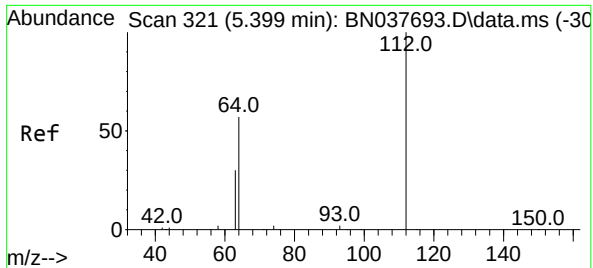


#2
1,4-Dioxane
Concen: 0.368 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00



Tgt Ion: 88 Resp: 3093
Ion Ratio Lower Upper
88 100
43 53.2 26.8 40.2#
58 75.5 61.9 92.9

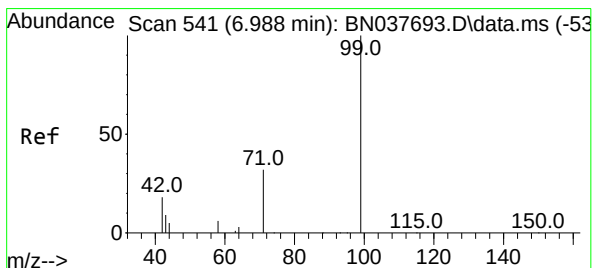
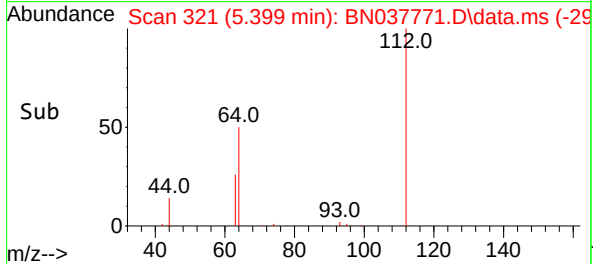
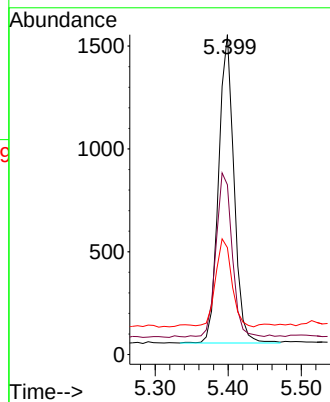
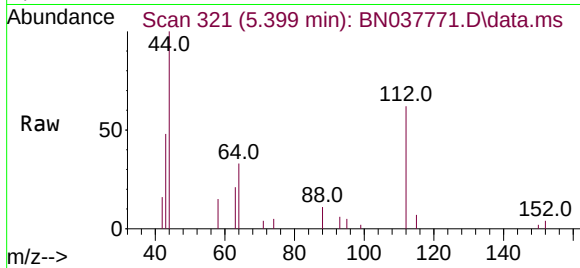




#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

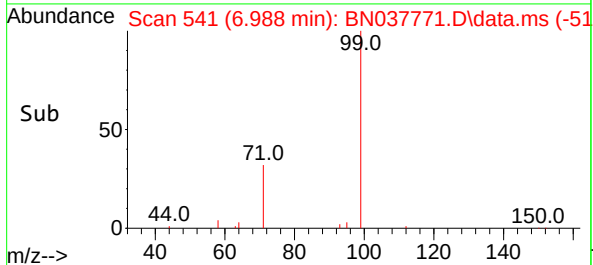
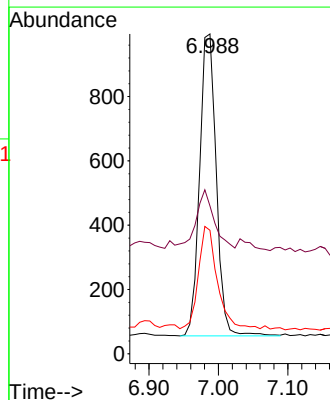
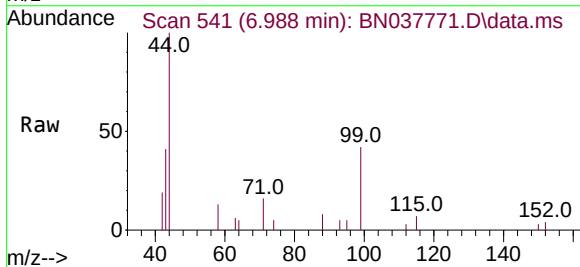
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

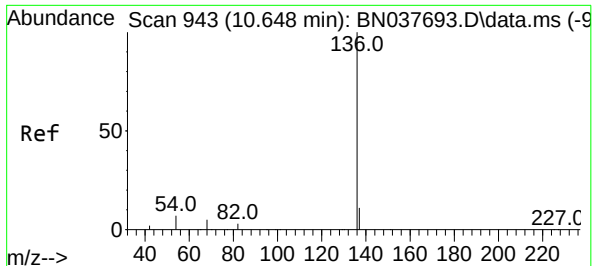
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	44.9	67.3
63	29.6	24.7	37.1



#5
Phenol-d6
Concen: 0.065 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.6	24.8
71	38.0	26.7	40.1

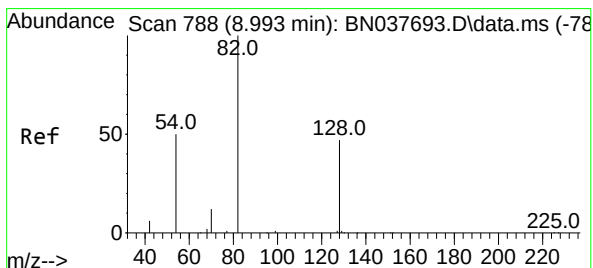
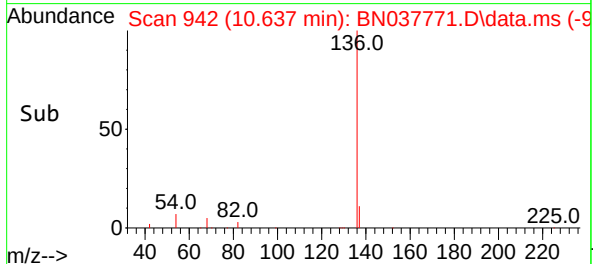
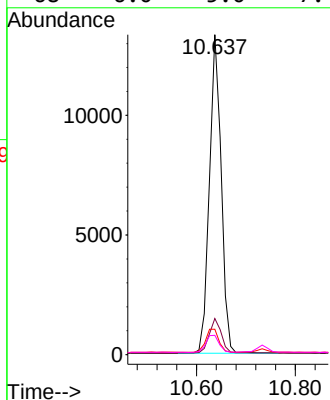
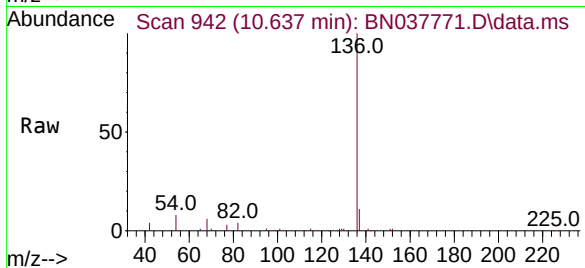




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

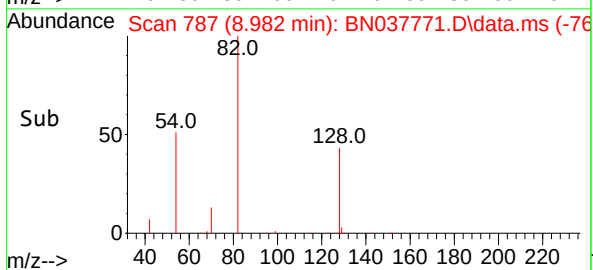
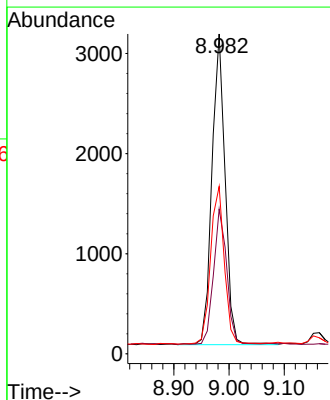
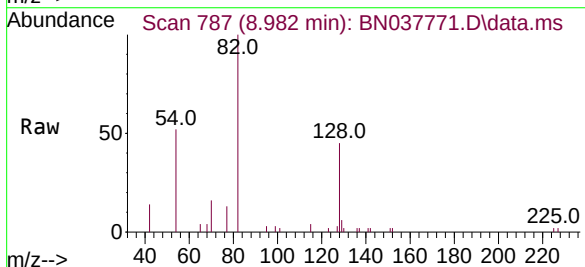
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

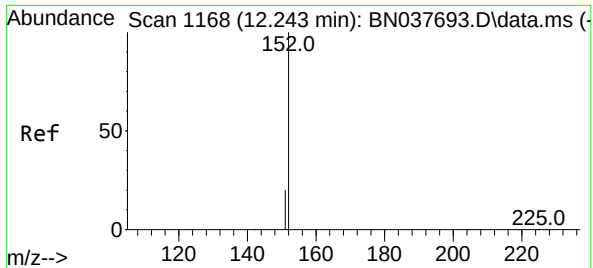
Tgt Ion:136	Resp:	22030
Ion Ratio	Lower	Upper
136	100	
137	11.3	9.1 13.7
54	7.9	6.3 9.5
68	6.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion: 82	Resp:	5146
Ion Ratio	Lower	Upper
82	100	
128	45.3	38.3 57.5
54	52.3	41.4 62.2

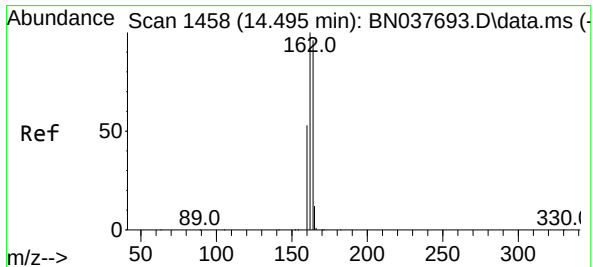
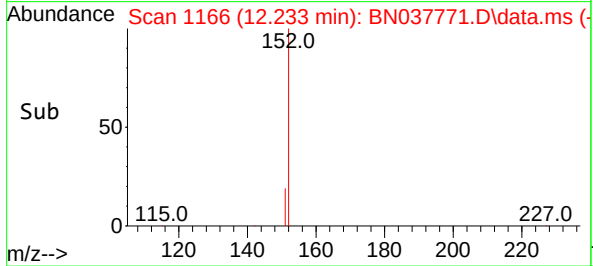
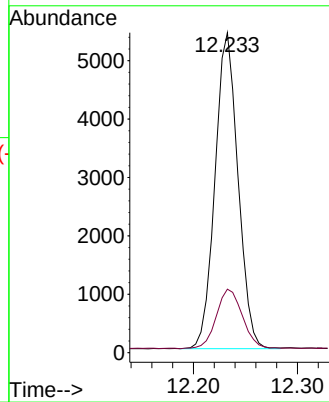
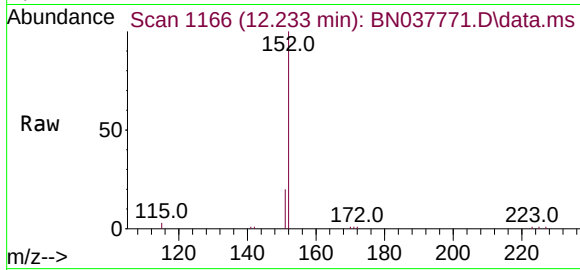




#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

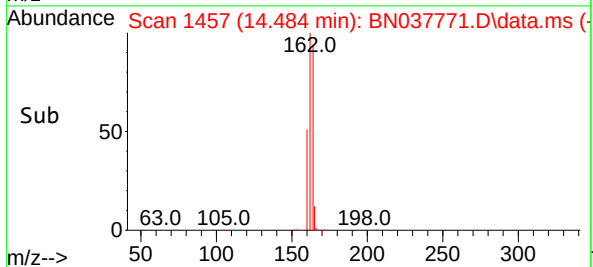
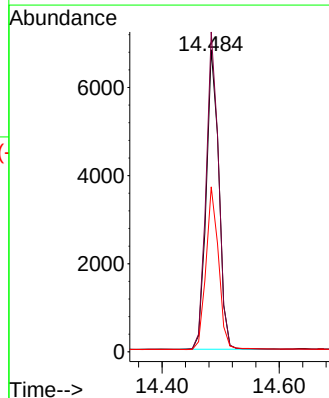
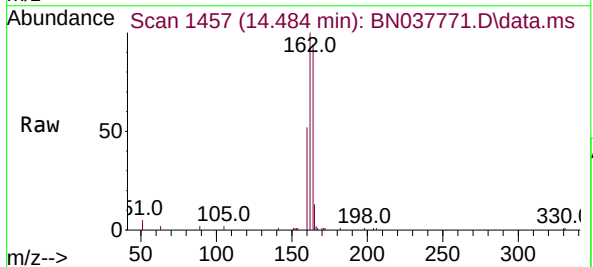
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

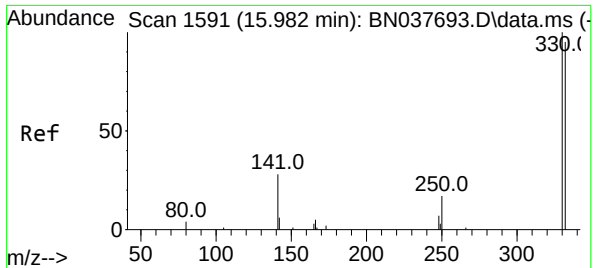
Tgt Ion:152 Resp: 8314
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:164 Resp: 10128
Ion Ratio Lower Upper
164 100
162 105.9 83.1 124.7
160 54.7 44.3 66.5



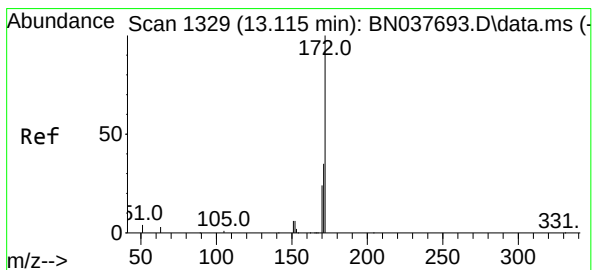
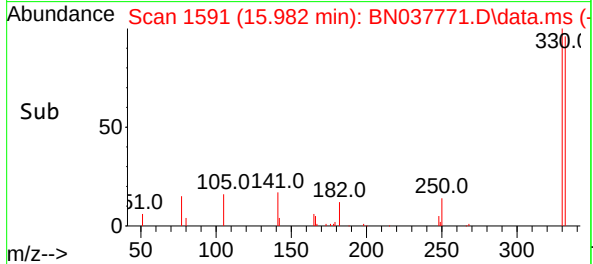
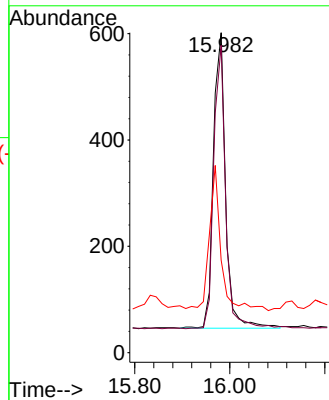
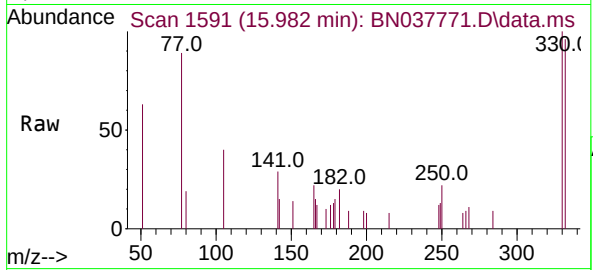


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion	330	Resp	990
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

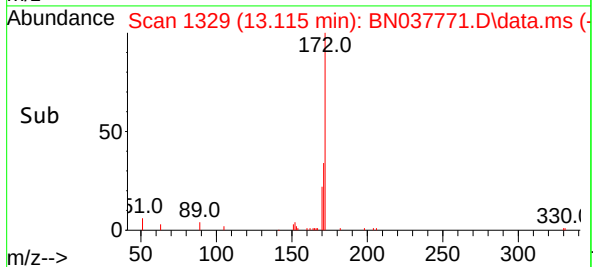
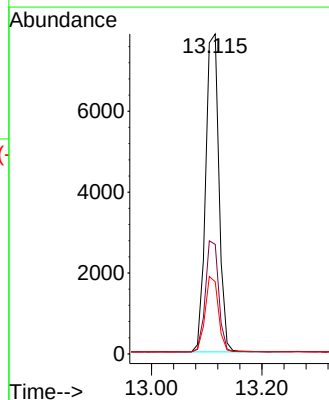
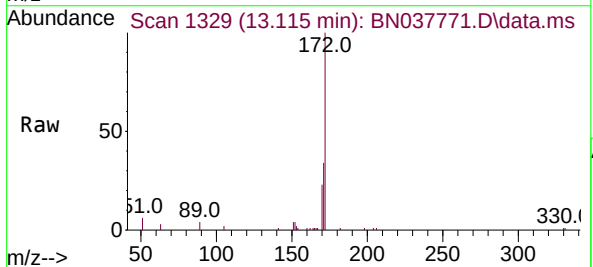
Ion	332	Ratio	Lower	Upper
332	93.7		75.3	112.9
141	47.3		35.0	52.4

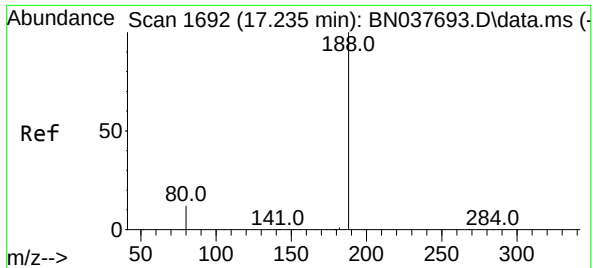


#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion	172	Resp	13153
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	Ratio	Lower	Upper
171	34.2		28.6	43.0
170	22.5		19.8	29.8

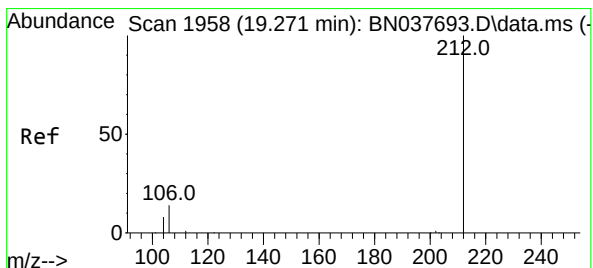
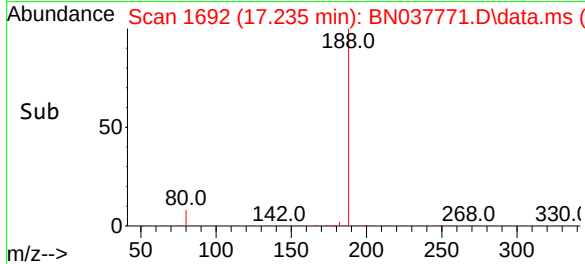
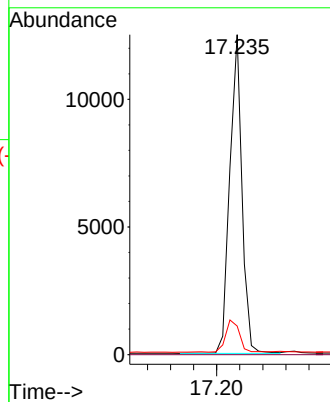
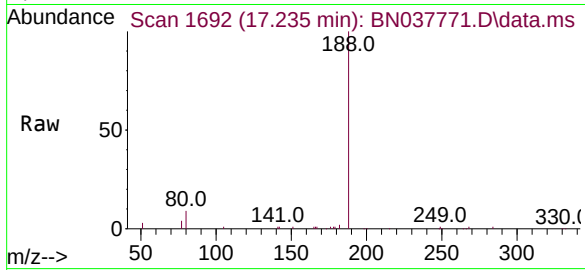




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

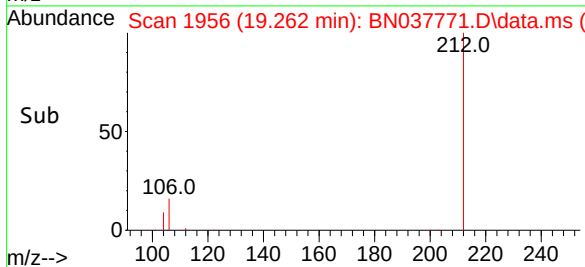
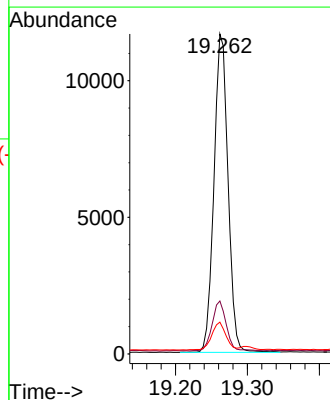
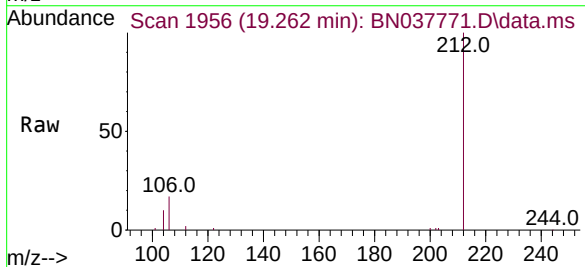
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

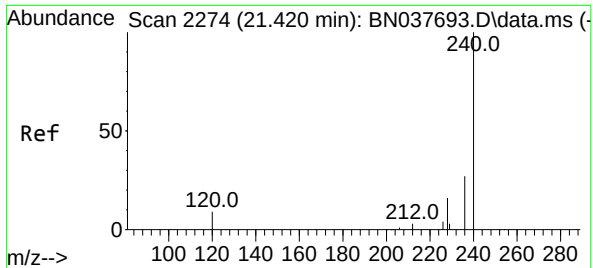
Tgt Ion:188 Resp: 18234
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.9 10.6 15.8#



#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:212 Resp: 15813
Ion Ratio Lower Upper
212 100
106 15.8 12.2 18.2
104 8.8 6.9 10.3

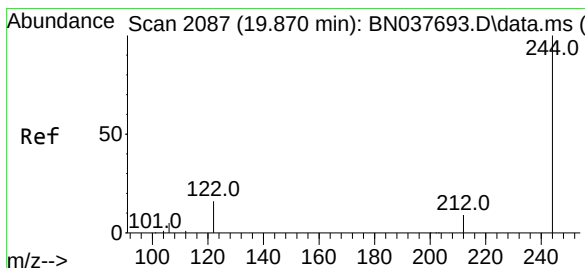
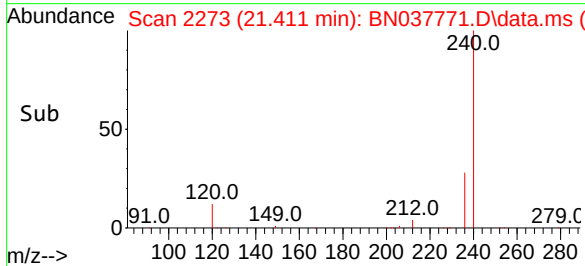
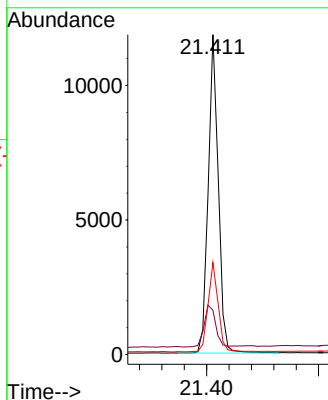
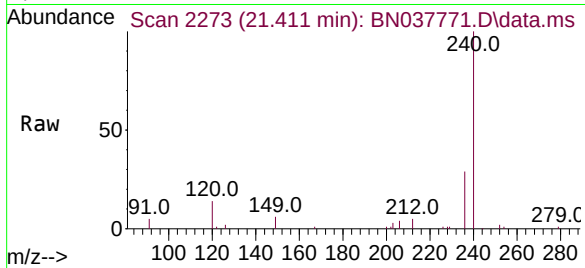




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

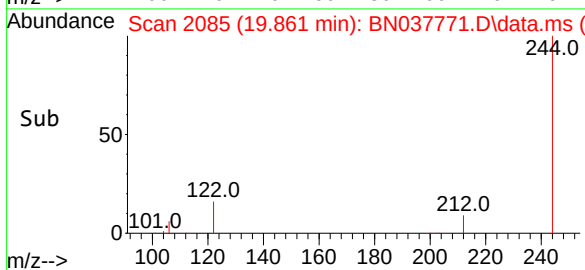
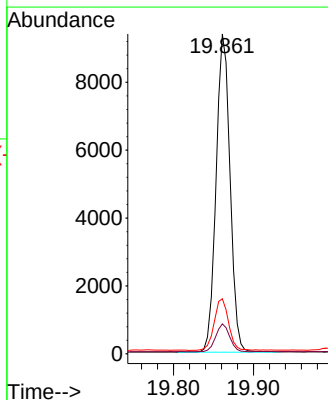
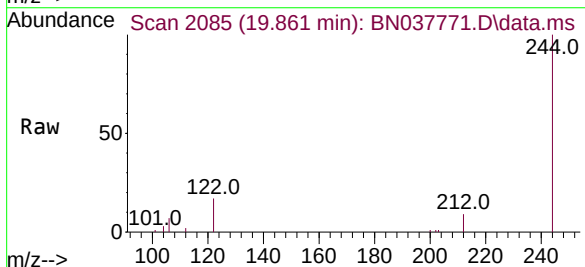
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

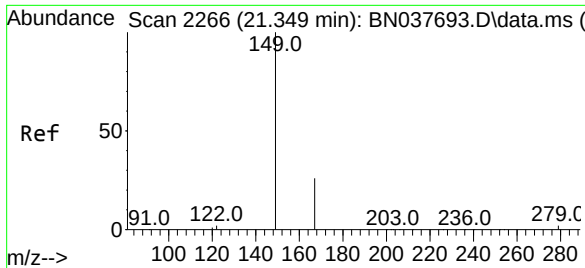
Tgt Ion:240 Resp: 14812
Ion Ratio Lower Upper
240 100
120 13.9 9.2 13.8#
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:244 Resp: 11370
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 17.2 13.2 19.8

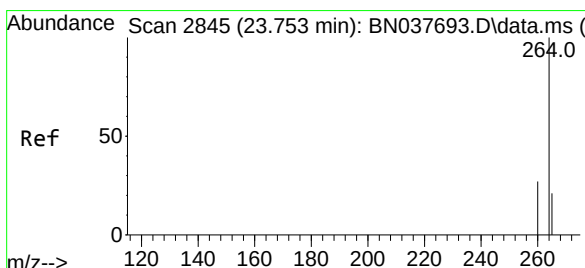
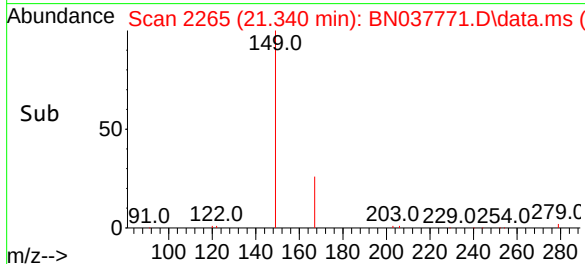
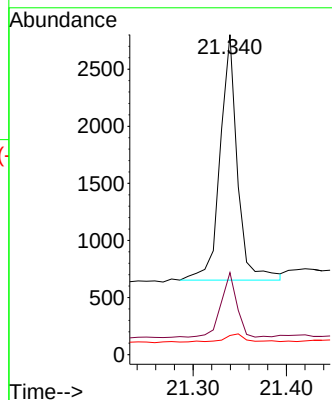
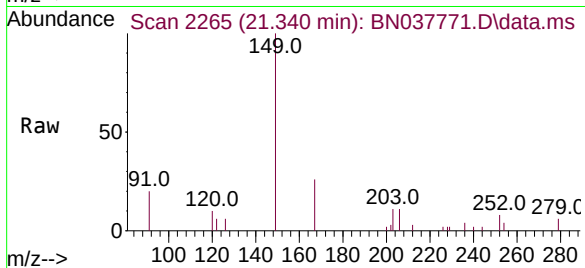




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.181 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

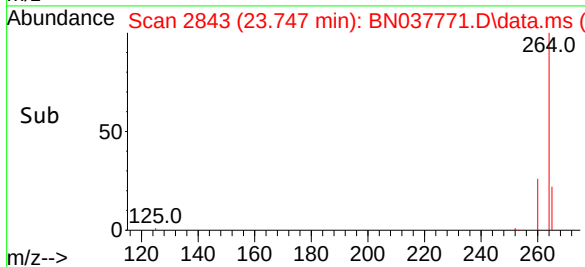
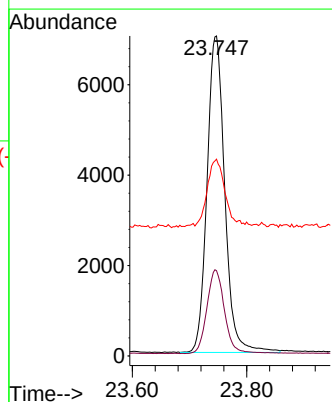
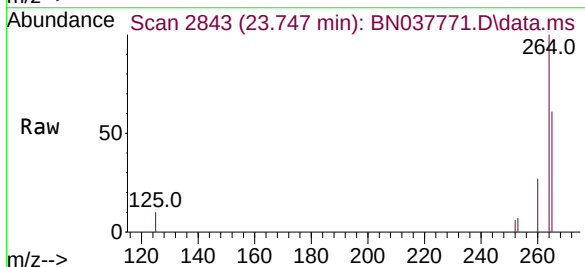
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911

Tgt Ion:149 Resp: 2775
Ion Ratio Lower Upper
149 100
167 24.0 20.8 31.2
279 3.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037771.D
Acq: 18 Sep 2025 10:00

Tgt Ion:264 Resp: 15070
Ion Ratio Lower Upper
264 100
260 26.6 21.8 32.8
265 61.5 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-04	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
BN037779.D	1	09/15/25 12:00	09/18/25 16:23	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6930	7.833				
1146-65-2	Naphthalene-d8	18200	10.637				
15067-26-2	Acenaphthene-d10	8170	14.484				
1517-22-2	Phenanthrene-d10	16000	17.235				
1719-03-5	Chrysene-d12	14300	21.411				
1520-96-3	Perylene-d12	14700	23.747				

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\BN091825\
Data File : BN037779.D
Acq On : 18 Sep 2025 16:23
Operator : RC/JU
Sample : Q3097-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Quant Time: Sep 18 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

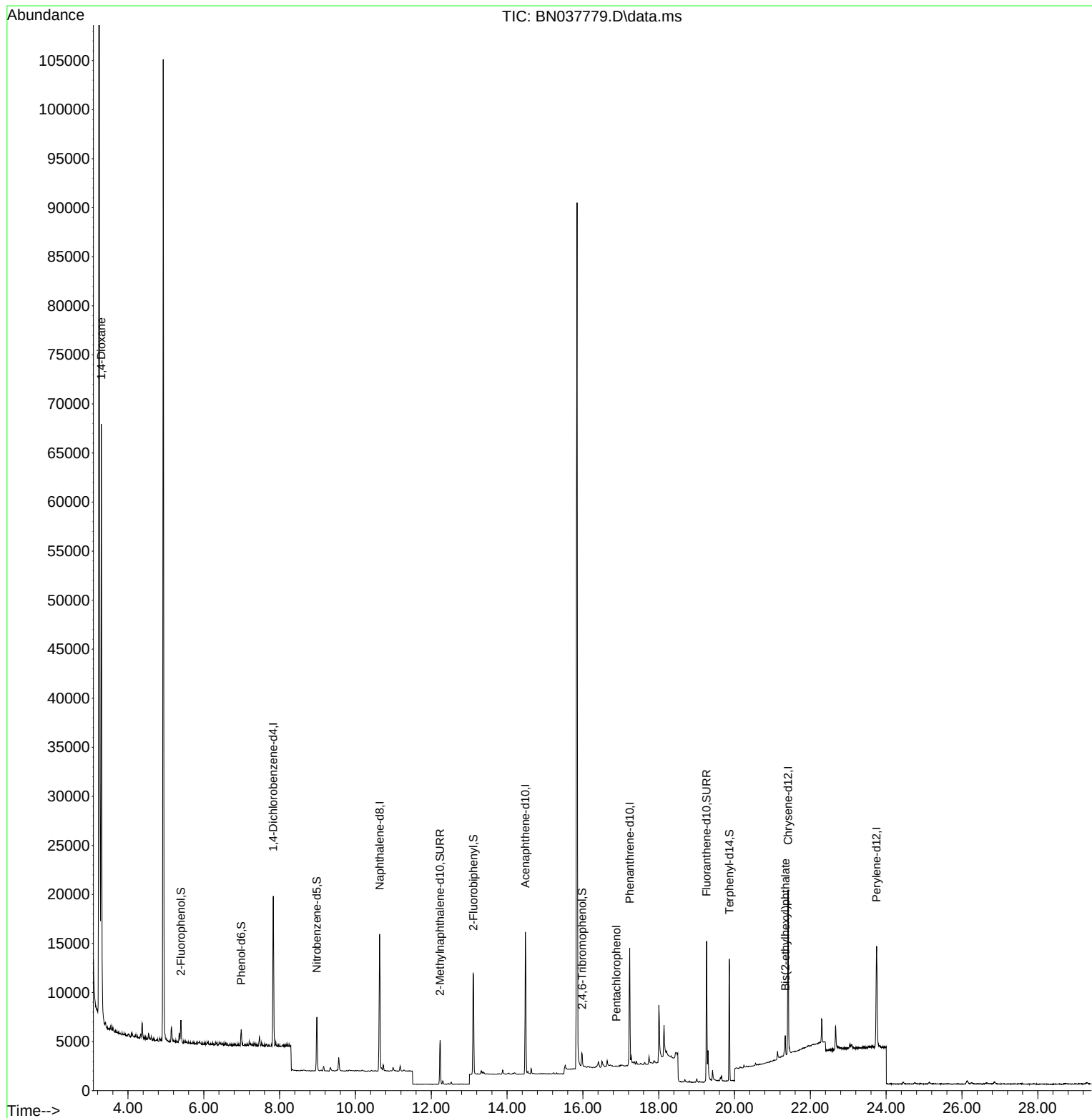
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6931	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18212	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8174	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15954	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	14259	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	14695	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1888	0.119	ng	0.00
5) Phenol-d6	6.988	99	1409	0.068	ng	0.00
8) Nitrobenzene-d5	8.982	82	4127	0.310	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	6072	0.252	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	906	0.425	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9785	0.286	ng	0.00
27) Fluoranthene-d10	19.262	212	15503	0.387	ng	0.00
31) Terphenyl-d14	19.861	244	11360	0.393	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	33742	4.674	ng	95
24) Pentachlorophenol	16.888	266	70	0.020	ng	# 83
34) Bis(2-ethylhexyl)phtha...	21.339	149	2684	0.182	ng	99

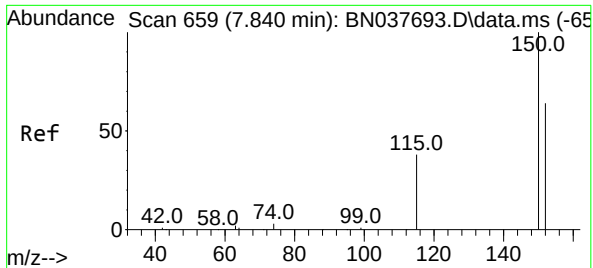
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037779.D
Acq On : 18 Sep 2025 16:23
Operator : RC/JU
Sample : Q3097-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

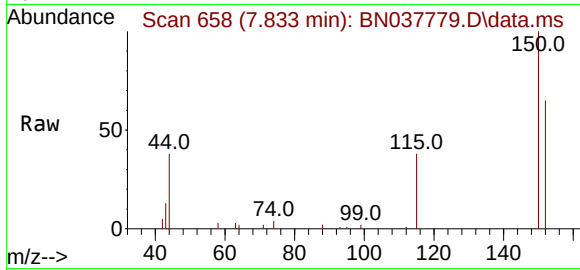
Quant Time: Sep 18 16:52:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



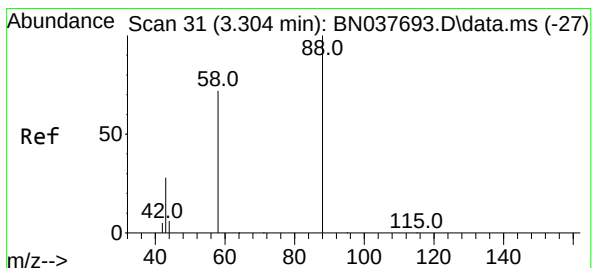
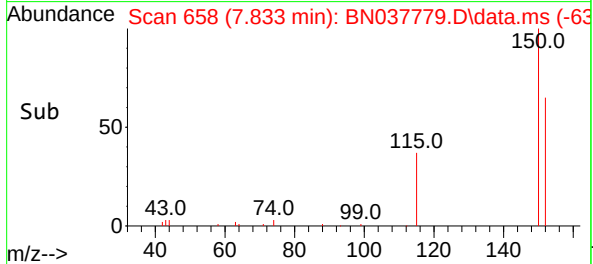
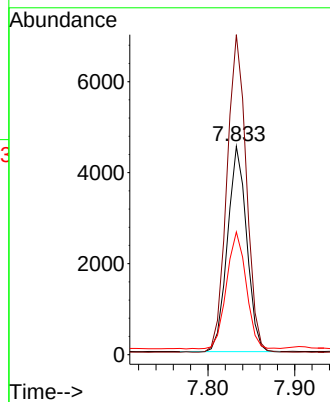


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

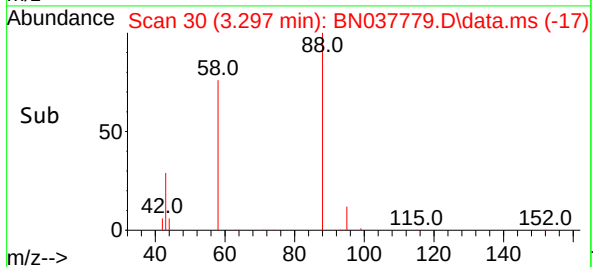
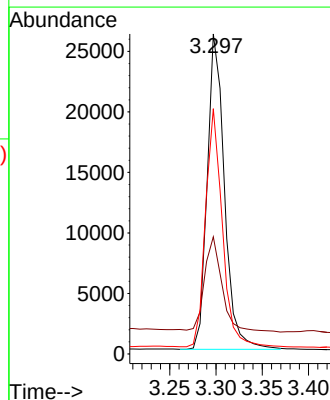
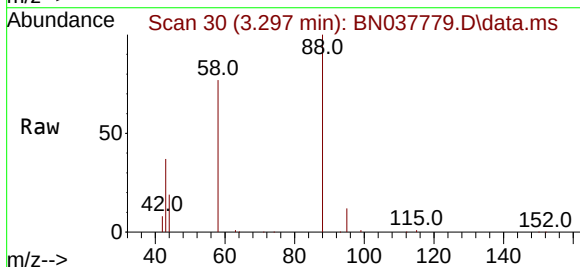


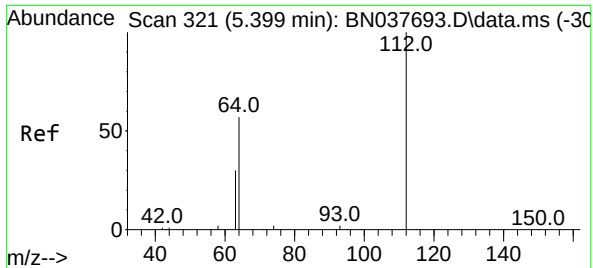
Tgt Ion: 152 Resp: 6931
Ion Ratio Lower Upper
152 100
150 153.6 124.5 186.7
115 58.9 49.2 73.8



#2
1,4-Dioxane
Concen: 4.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion: 88 Resp: 33742
Ion Ratio Lower Upper
88 100
43 30.8 26.8 40.2
58 73.2 61.9 92.9

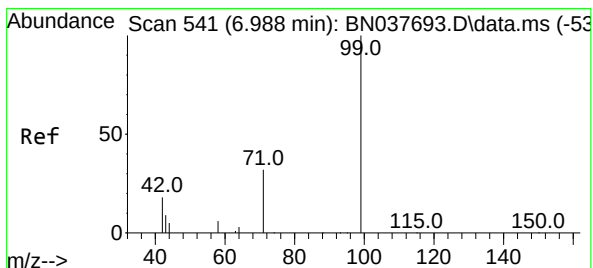
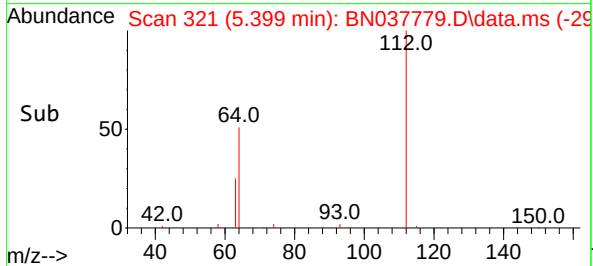
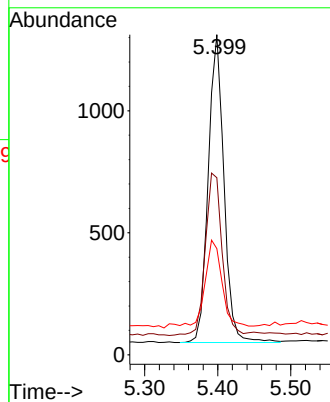
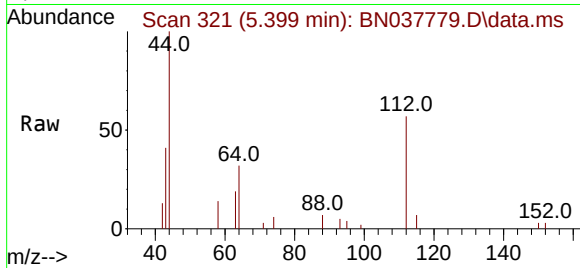




#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

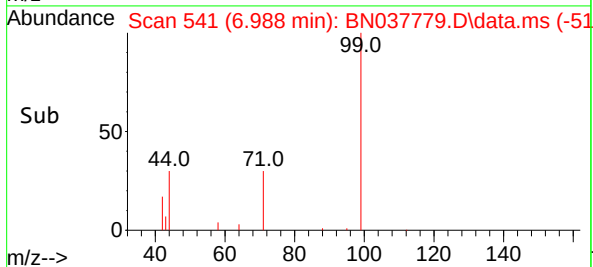
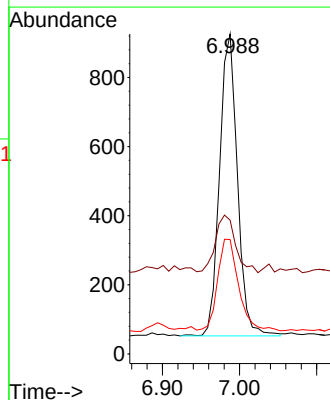
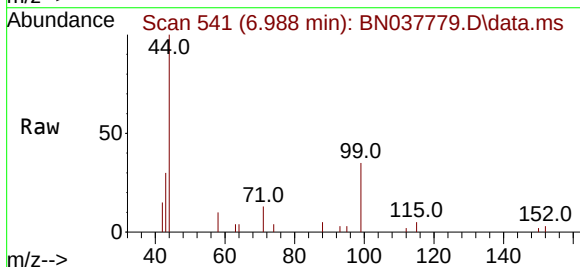
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

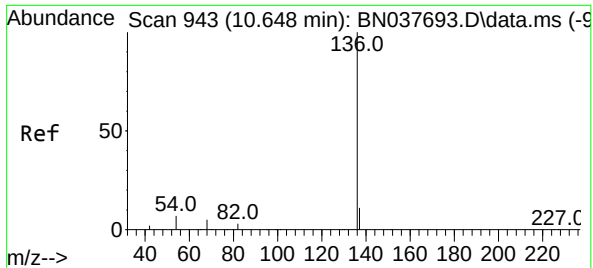
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.9	67.3
63	29.6	24.7	37.1



#5
Phenol-d6
Concen: 0.068 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.4	16.6	24.8
71	35.3	26.7	40.1

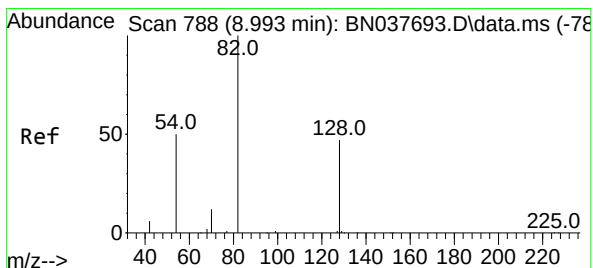
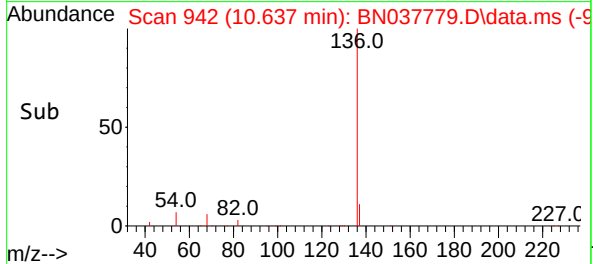
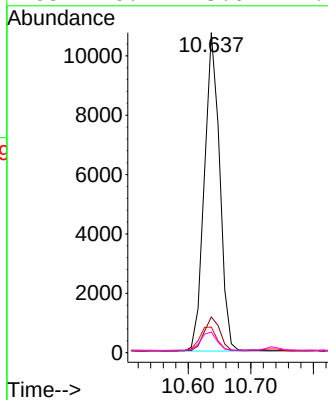
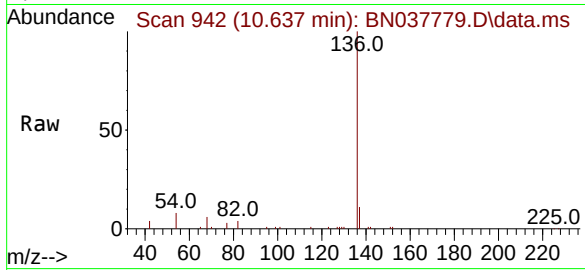




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

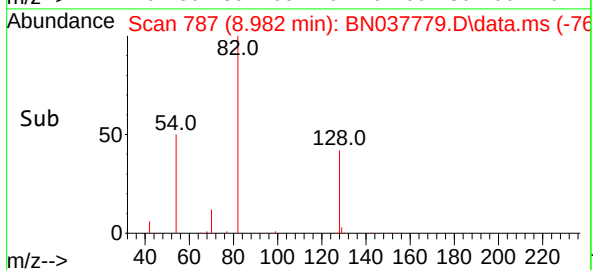
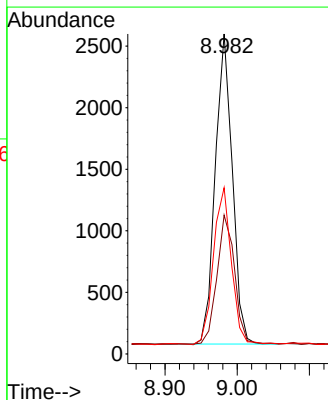
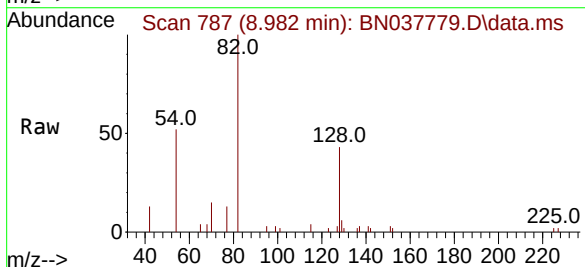
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

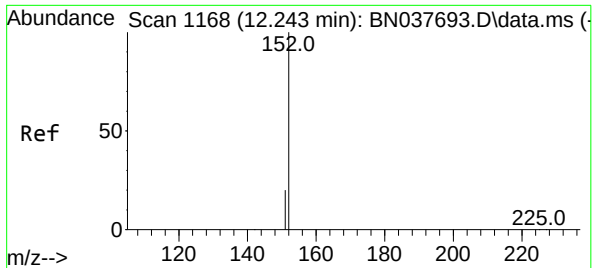
Tgt Ion:	136	Resp:	18212
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.0	6.3	9.5
68	6.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:	82	Resp:	4127
Ion	Ratio	Lower	Upper
82	100		
128	43.4	38.3	57.5
54	51.9	41.4	62.2

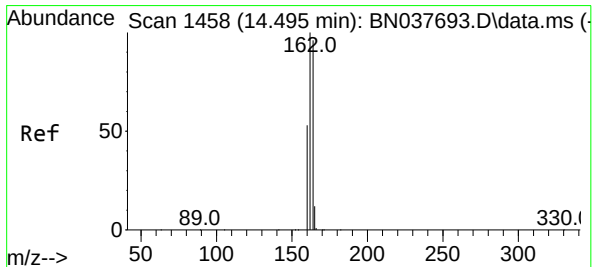
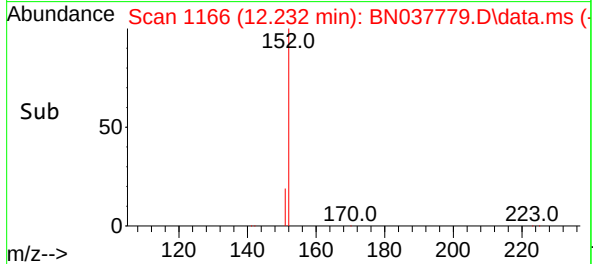
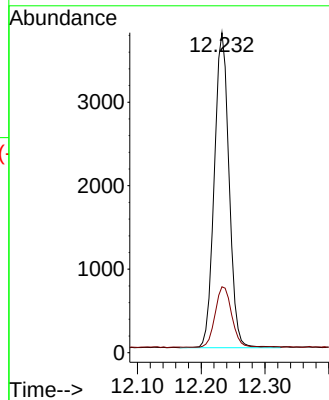
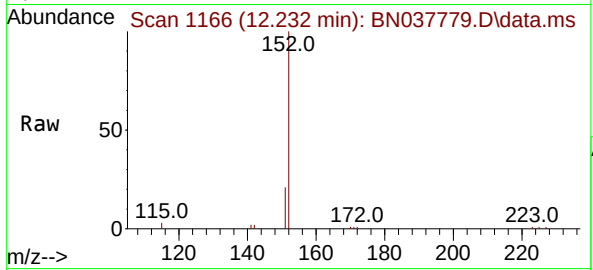




#11
2-Methylnaphthalene-d10
Concen: 0.252 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

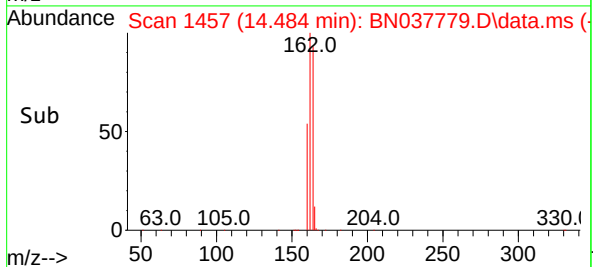
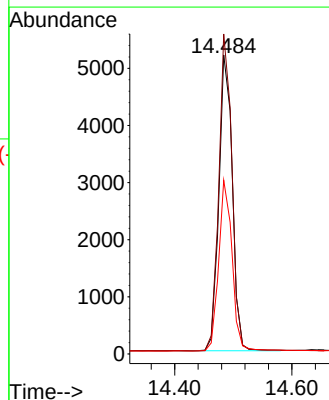
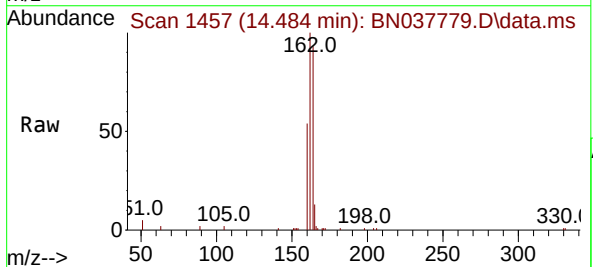
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

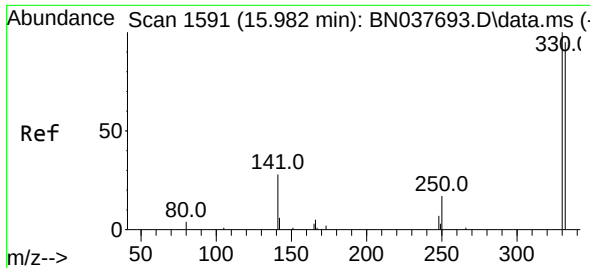
Tgt Ion:152 Resp: 6072
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:164 Resp: 8174
Ion Ratio Lower Upper
164 100
162 107.0 83.1 124.7
160 58.1 44.3 66.5



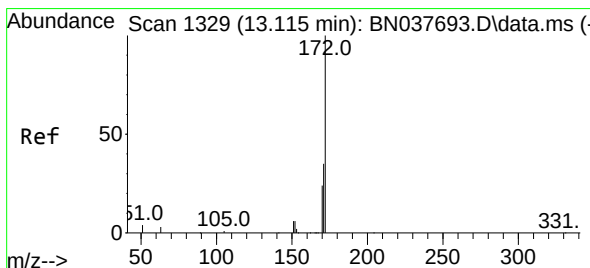
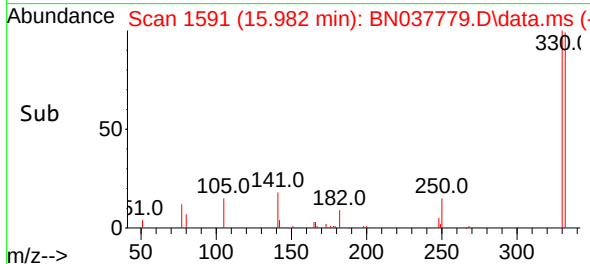
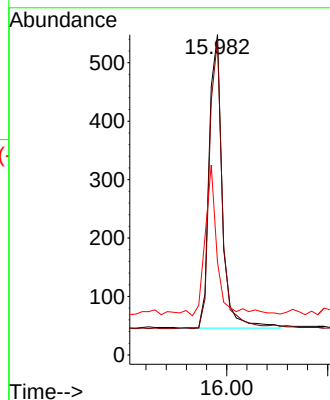
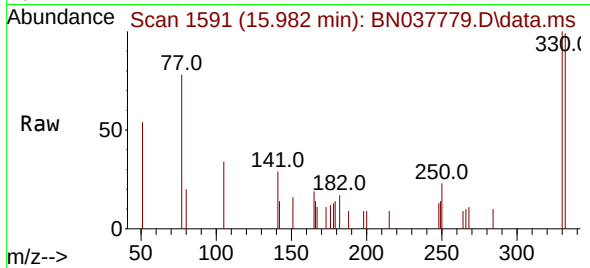


#14
2,4,6-Tribromophenol
Concen: 0.425 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

Tgt Ion	330	Resp	906
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

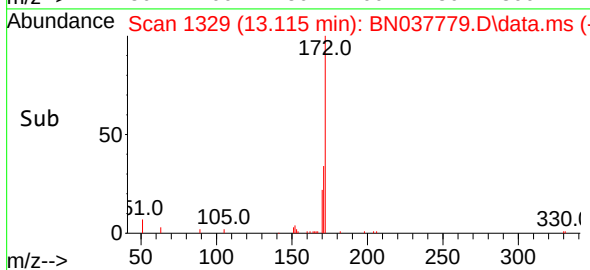
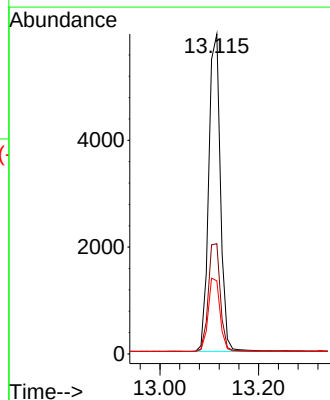
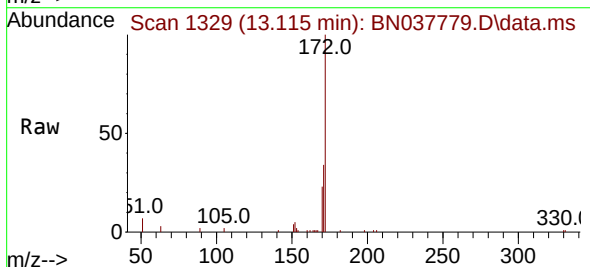
Ion	332	Ratio	97.8	Lower	75.3	Upper	112.9
141	46.5			35.0			52.4

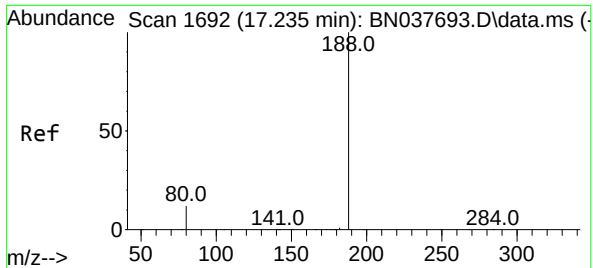


#15
2-Fluorobiphenyl
Concen: 0.286 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion	172	Resp	9785
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	Ratio	34.5	Lower	28.6	Upper	43.0
170	22.9			19.8			29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037779.D

Acq: 18 Sep 2025 16:23

Instrument :

BNA_N

ClientSampleId :

RE125D1-20250911

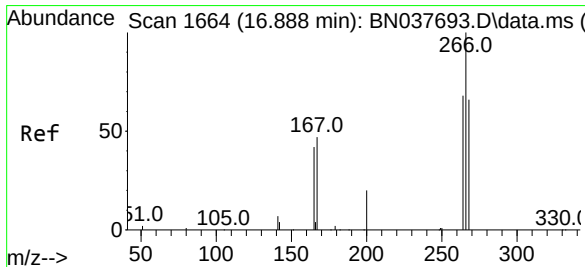
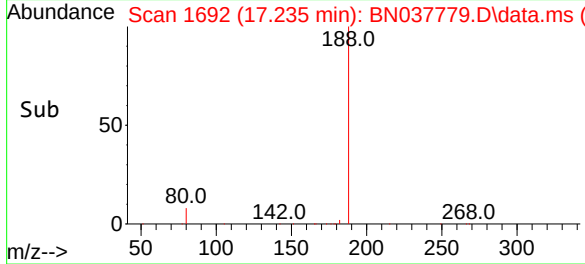
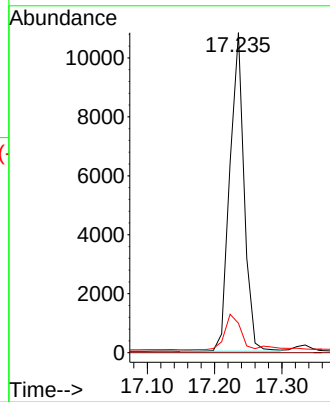
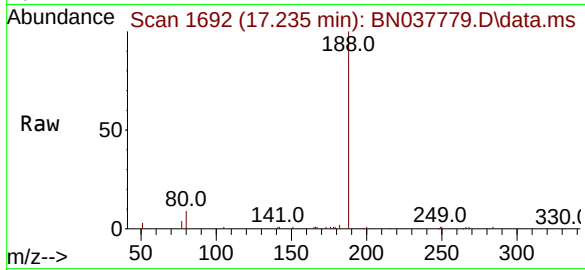
Tgt Ion:188 Resp: 15954

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 10.6 15.8#



#24

Pentachlorophenol

Concen: 0.020 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037779.D

Acq: 18 Sep 2025 16:23

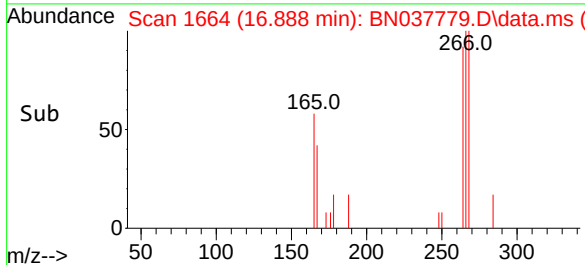
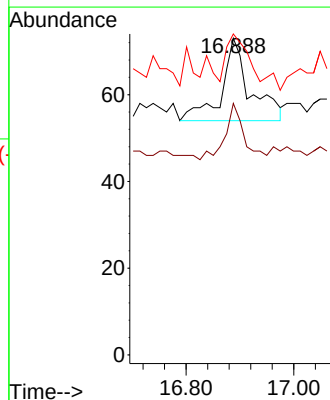
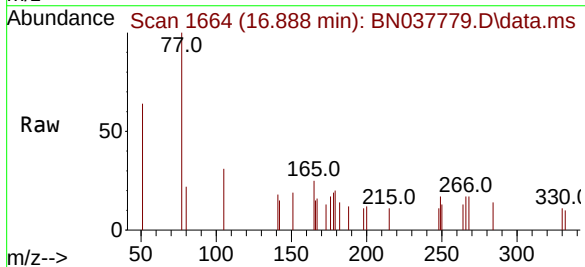
Tgt Ion:266 Resp: 70

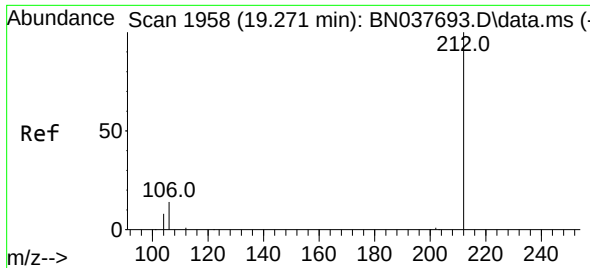
Ion Ratio Lower Upper

266 100

264 44.3 51.6 77.4#

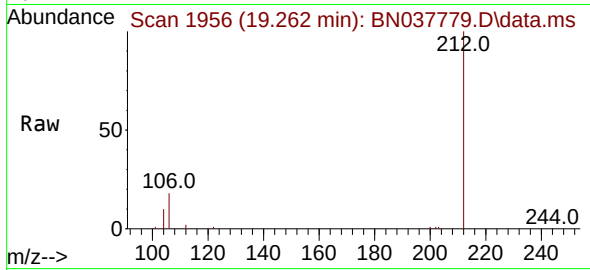
268 60.0 53.2 79.8



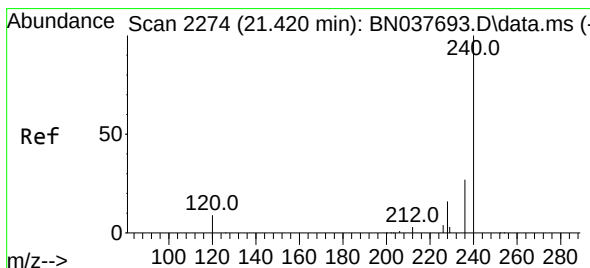
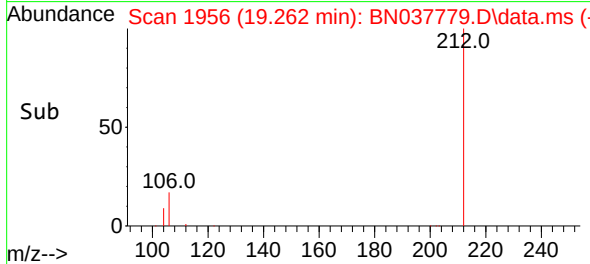
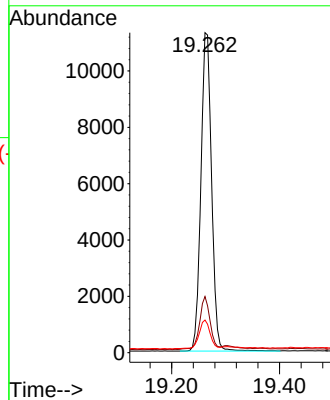


#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

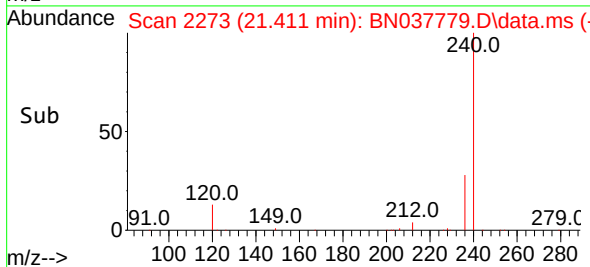
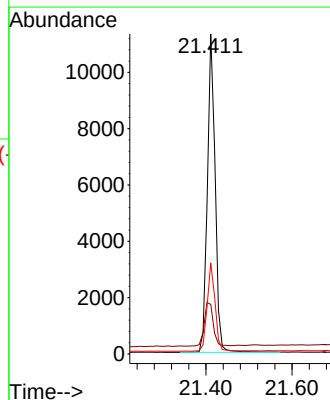
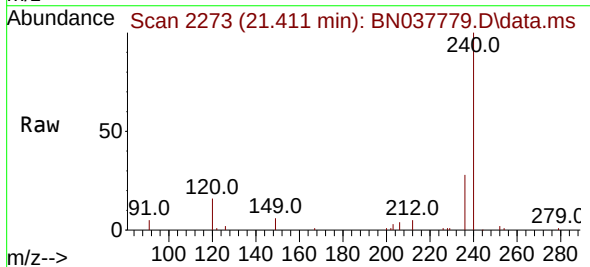


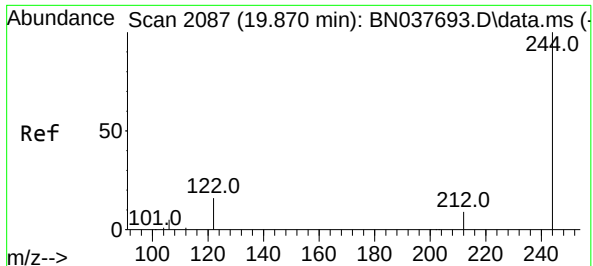
Tgt Ion:212 Resp: 15503
Ion Ratio Lower Upper
212 100
106 16.3 12.2 18.2
104 9.5 6.9 10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Tgt Ion:240 Resp: 14259
Ion Ratio Lower Upper
240 100
120 15.5 9.2 13.8#
236 28.4 22.6 33.8

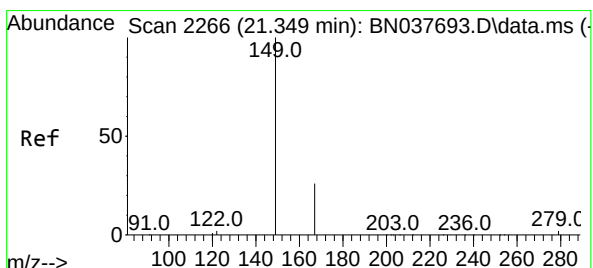
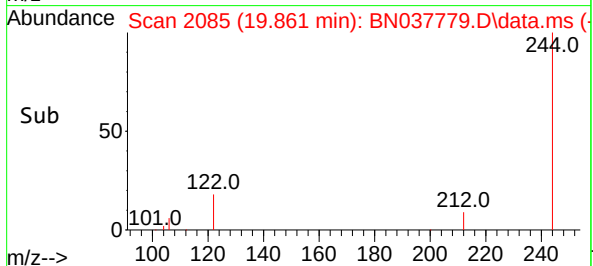
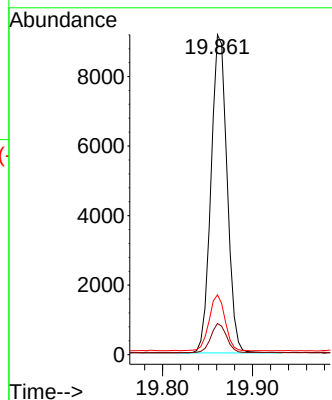
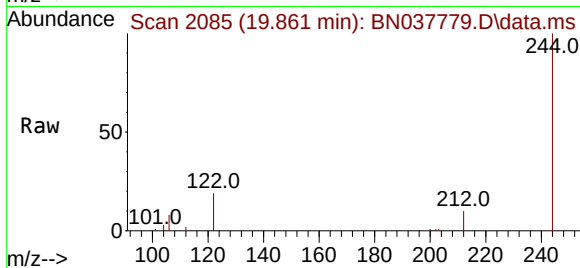




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

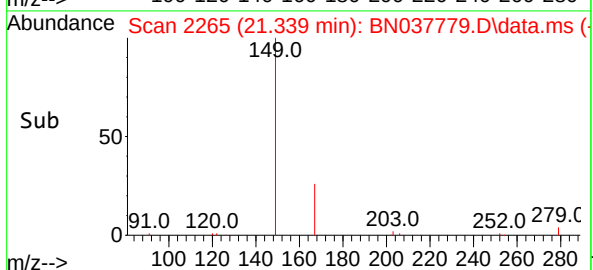
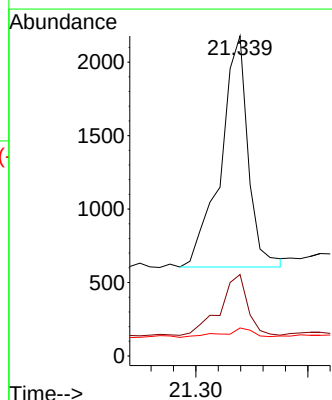
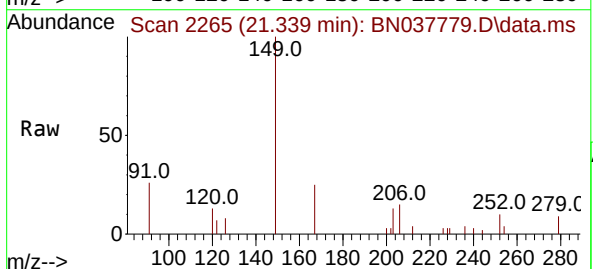
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911

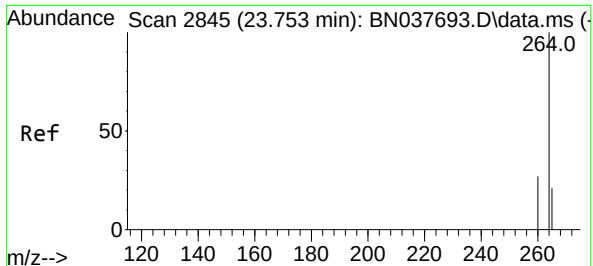
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	18.7	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.182 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

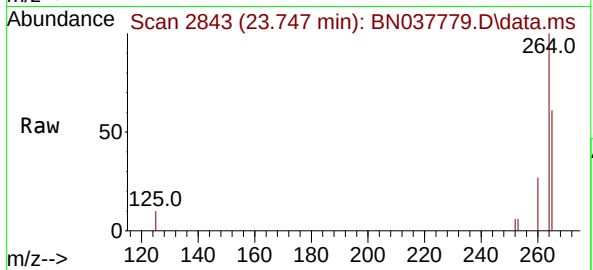
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.8	31.2
279	4.4	3.3	4.9



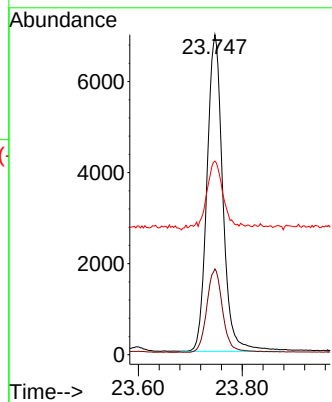
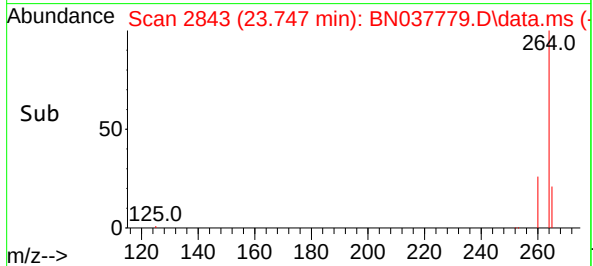


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037779.D
Acq: 18 Sep 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250911



Tgt Ion:264 Resp: 14695
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 60.5 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-05	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
BN037780.D	1	09/15/25 12:00	09/18/25 17:00	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7250	7.833				
1146-65-2	Naphthalene-d8	19500	10.637				
15067-26-2	Acenaphthene-d10	8750	14.484				
1517-22-2	Phenanthrene-d10	15800	17.235				
1719-03-5	Chrysene-d12	13100	21.411				
1520-96-3	Perylene-d12	12700	23.747				

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\BN091825\
Data File : BN037780.D
Acq On : 18 Sep 2025 17:00
Operator : RC/JU
Sample : Q3097-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Quant Time: Sep 18 17:38:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

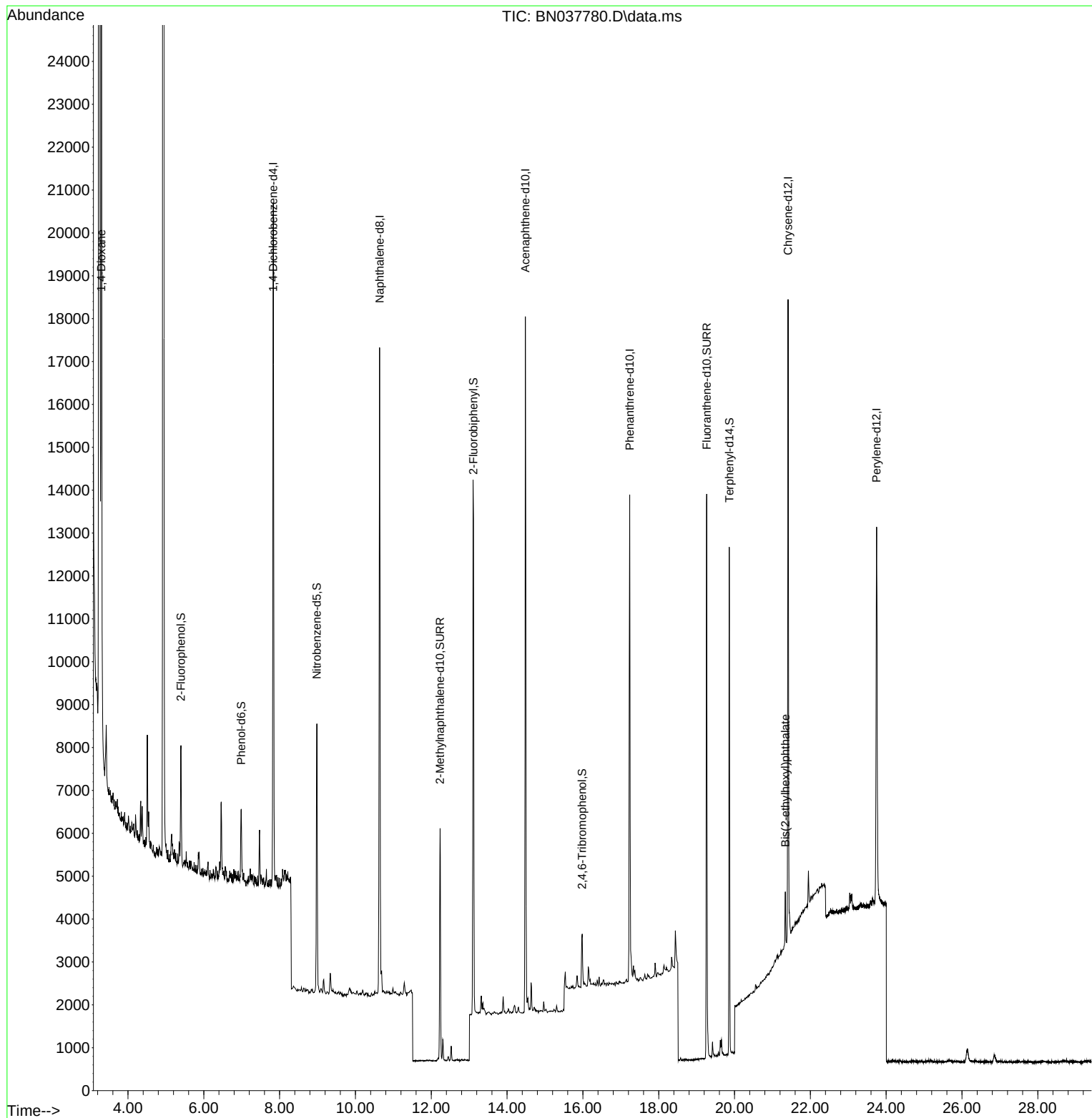
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7245	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19496	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8745	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15845	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13110	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	12712	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2265	0.136	ng	0.00
5) Phenol-d6	6.988	99	1626	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4800	0.337	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7198	0.279	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	917	0.402	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11230	0.307	ng	0.00
27) Fluoranthene-d10	19.266	212	14489	0.364	ng	0.00
31) Terphenyl-d14	19.861	244	10642	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	15827	2.097	ng	97
34) Bis(2-ethylhexyl)phtha...	21.340	149	1305	0.096	ng	# 98

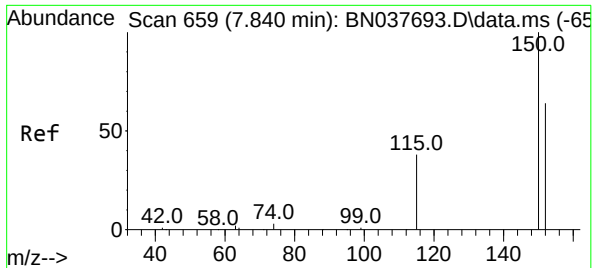
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037780.D
Acq On : 18 Sep 2025 17:00
Operator : RC/JU
Sample : Q3097-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

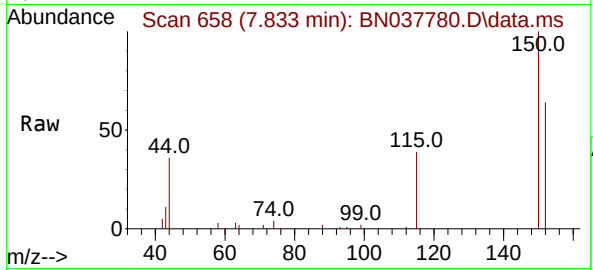
Quant Time: Sep 18 17:38:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



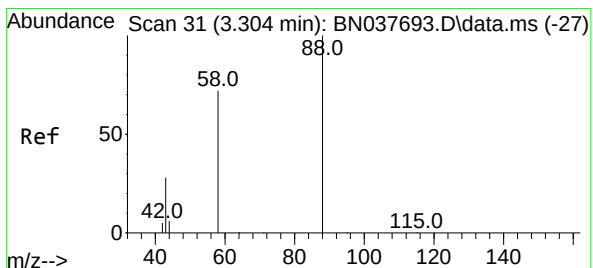
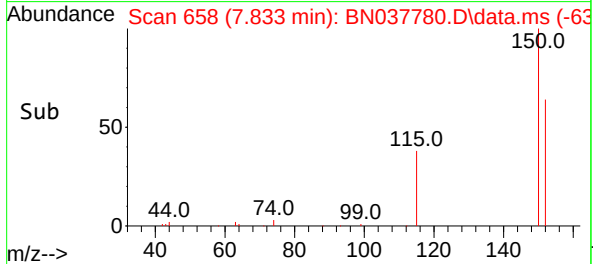
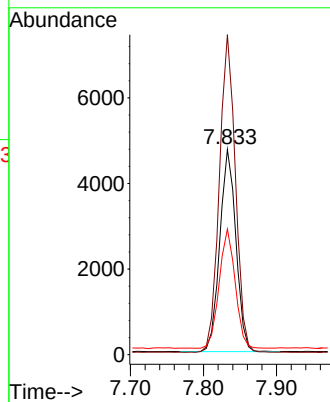


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

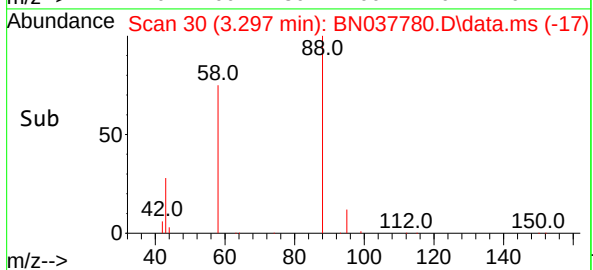
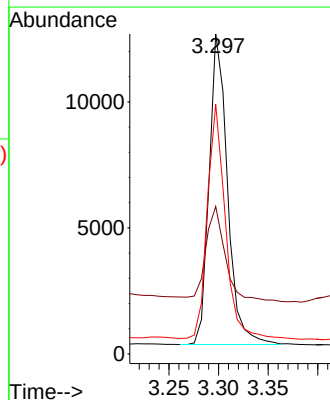
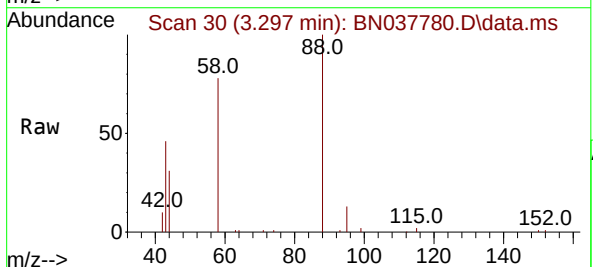


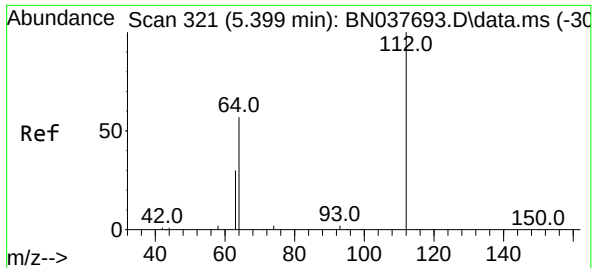
Tgt Ion: 152 Resp: 7245
Ion Ratio Lower Upper
152 100
150 155.8 124.5 186.7
115 61.1 49.2 73.8



#2
1,4-Dioxane
Concen: 2.097 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion: 88 Resp: 15827
Ion Ratio Lower Upper
88 100
43 32.9 26.8 40.2
58 73.7 61.9 92.9

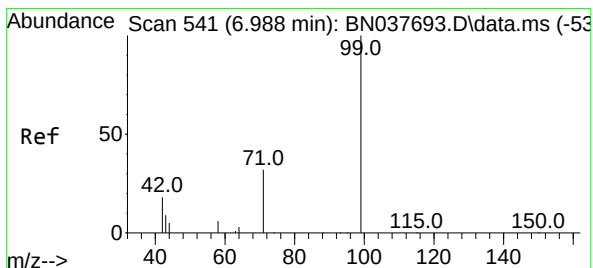
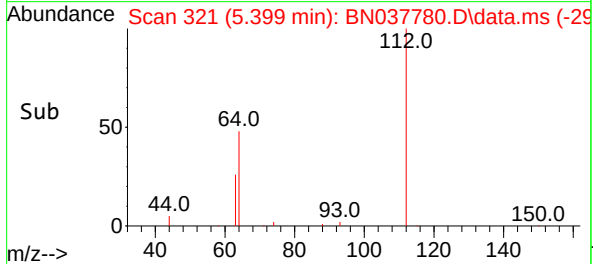
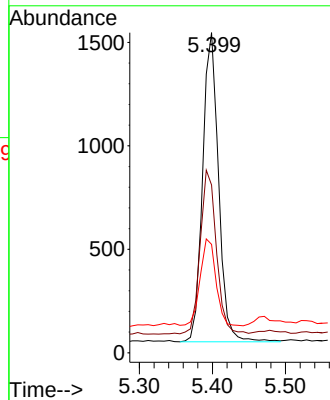
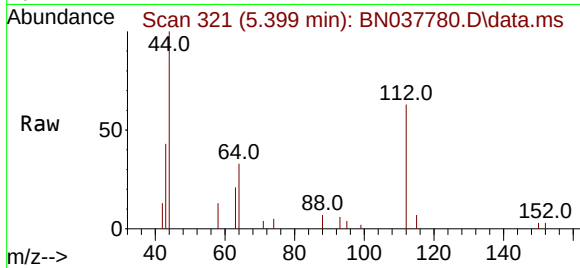




#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.399 min Scan# 311
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

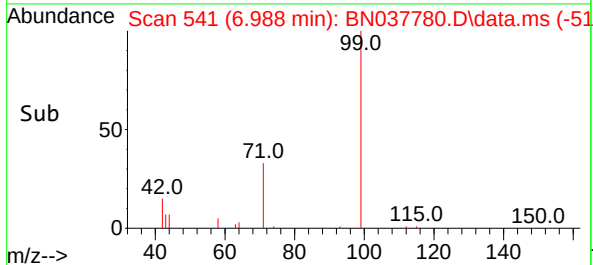
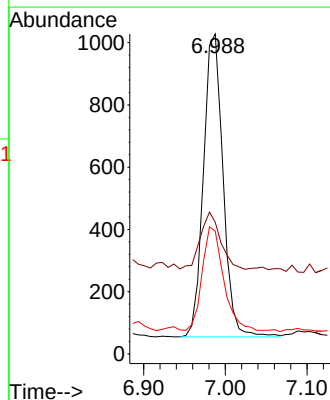
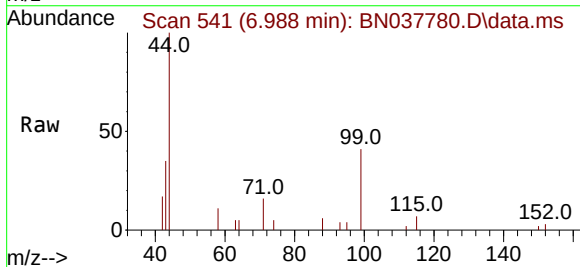
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

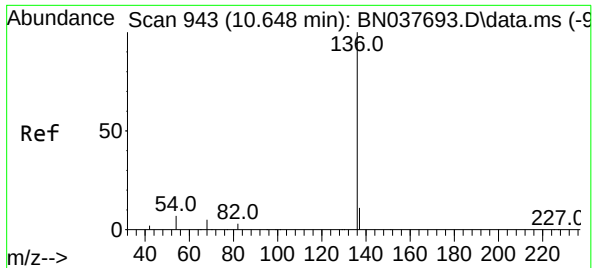
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	44.9	67.3
63	27.9	24.7	37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.6	24.8
71	38.5	26.7	40.1

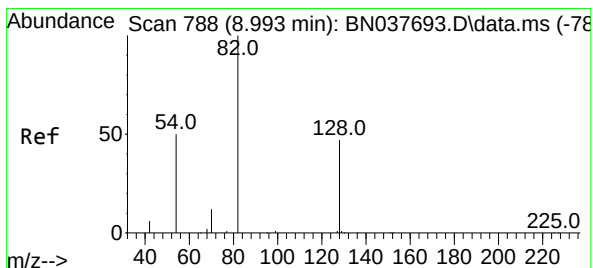
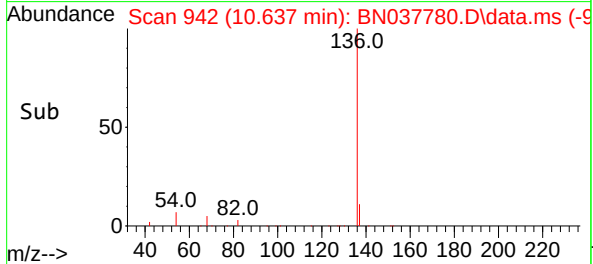
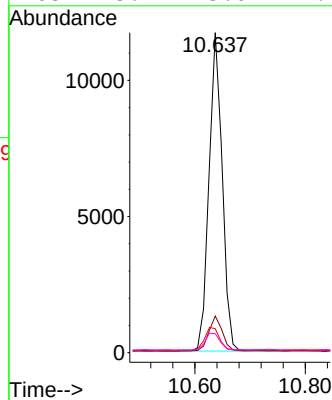
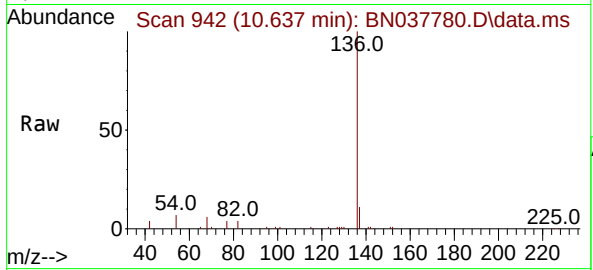




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

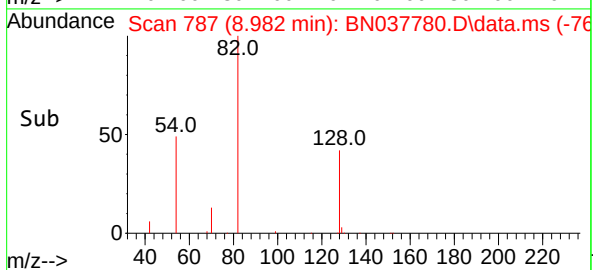
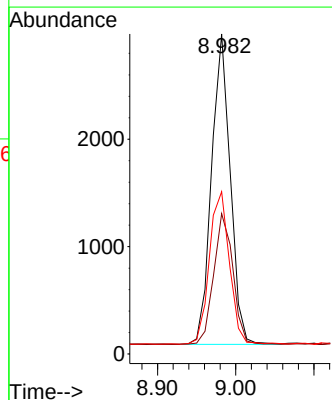
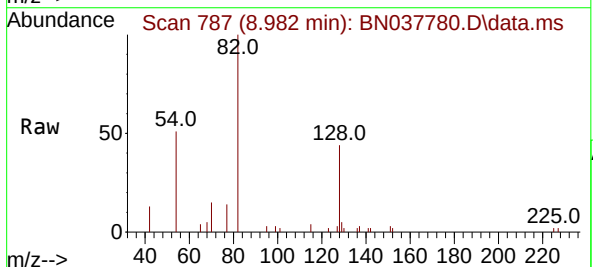
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

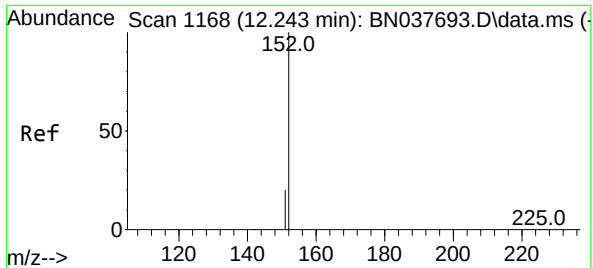
Tgt Ion:	136	Resp:	19496
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:	82	Resp:	4800
Ion	Ratio	Lower	Upper
82	100		
128	43.8	38.3	57.5
54	50.7	41.4	62.2

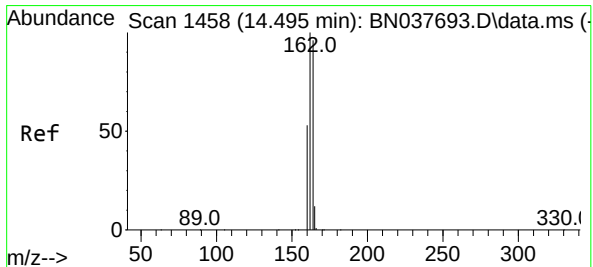
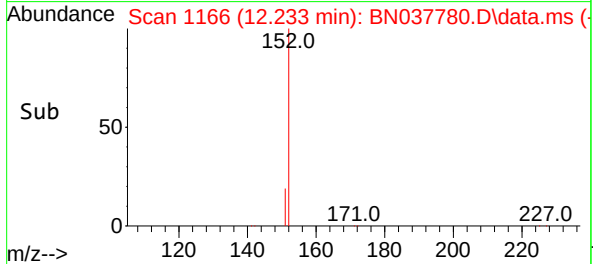
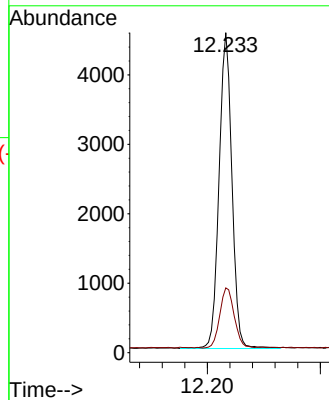
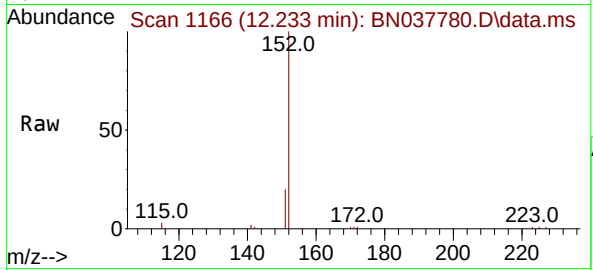




#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

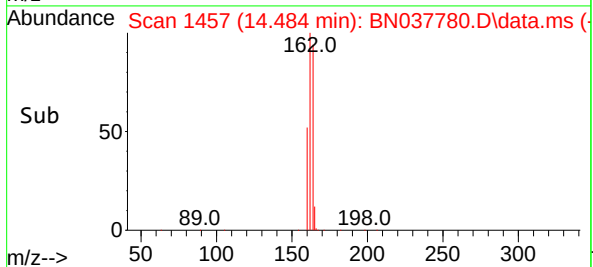
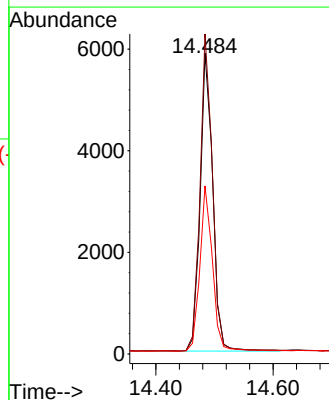
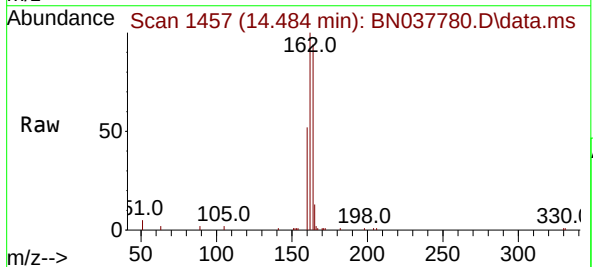
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

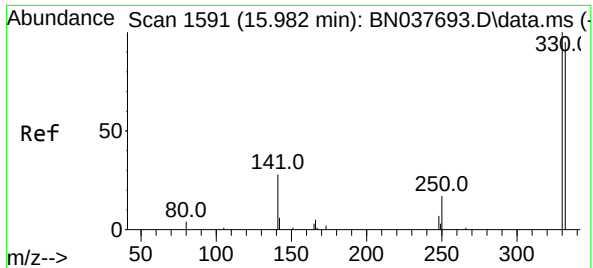
Tgt Ion:152 Resp: 7198
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:164 Resp: 8745
Ion Ratio Lower Upper
164 100
162 106.3 83.1 124.7
160 55.8 44.3 66.5

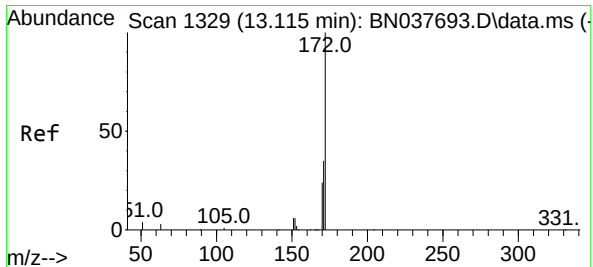
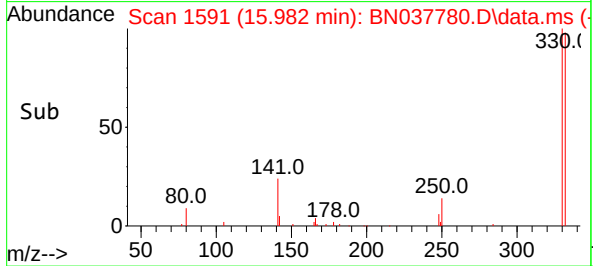
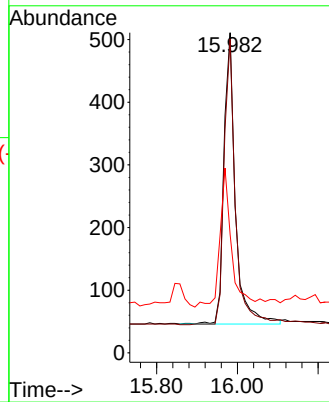
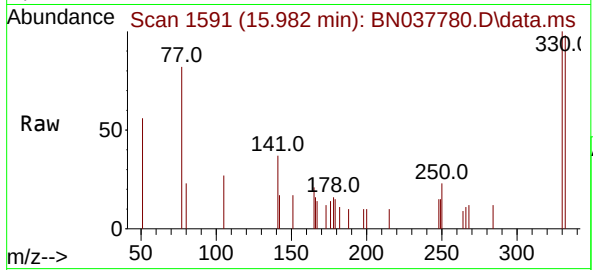




#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

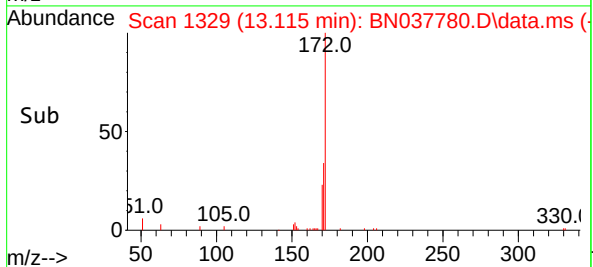
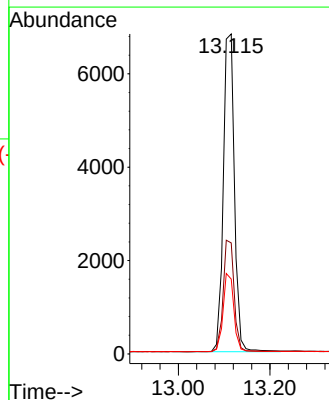
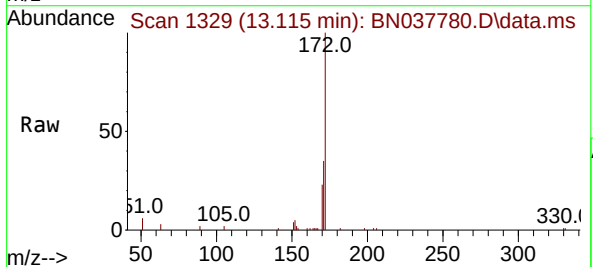
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

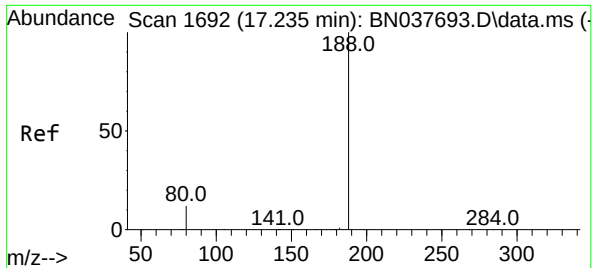
Tgt Ion:	330	Resp:	917
Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.3	112.9
141	48.1	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:	172	Resp:	11230
Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	23.4	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037780.D

Acq: 18 Sep 2025 17:00

Instrument :

BNA_N

ClientSampleId :

RE125D3-20250911

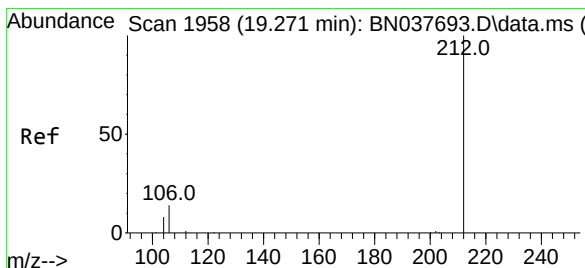
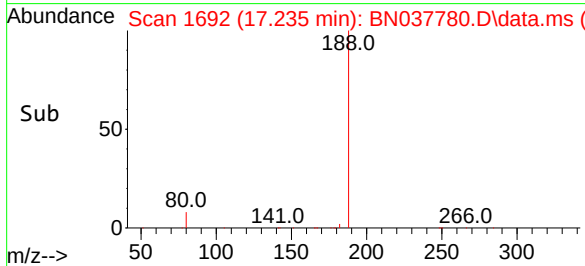
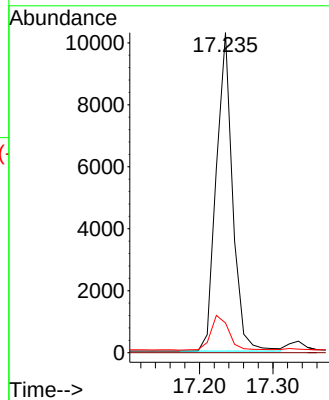
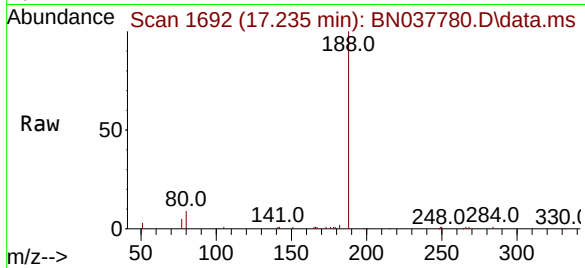
Tgt Ion:188 Resp: 15845

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037780.D

Acq: 18 Sep 2025 17:00

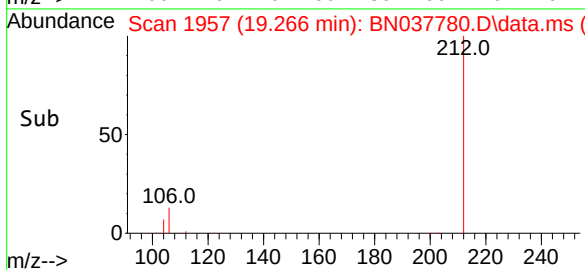
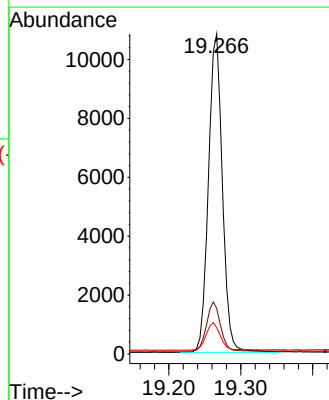
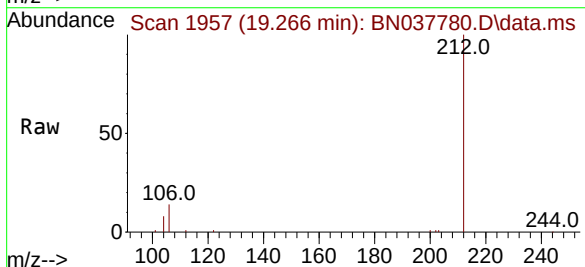
Tgt Ion:212 Resp: 14489

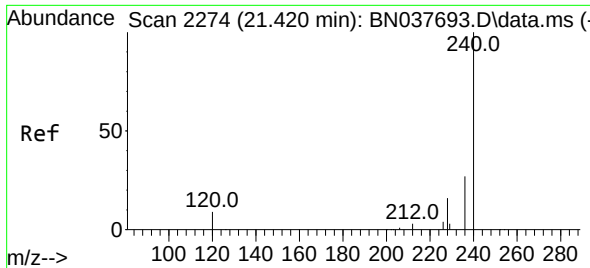
Ion Ratio Lower Upper

212 100

106 15.4 12.2 18.2

104 9.0 6.9 10.3

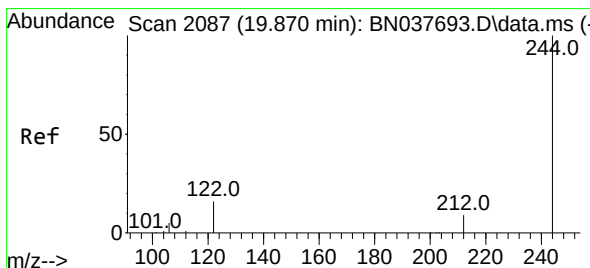
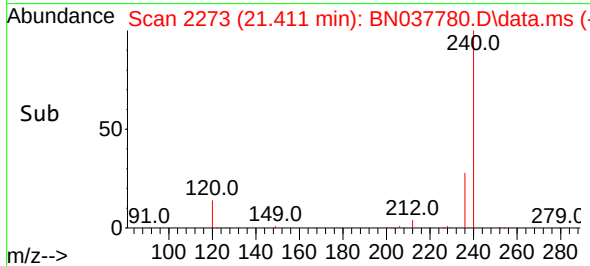
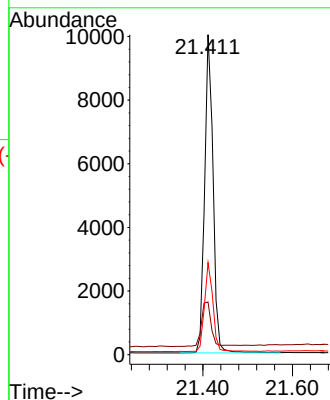
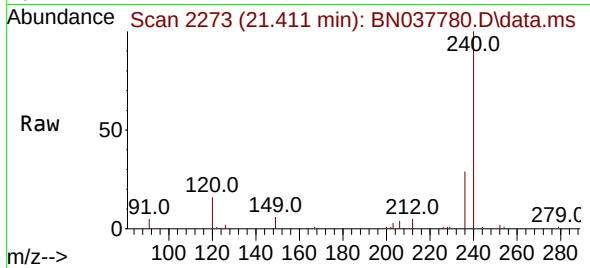




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

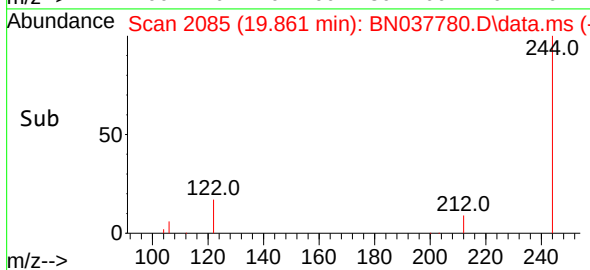
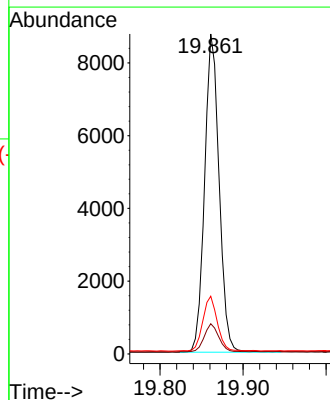
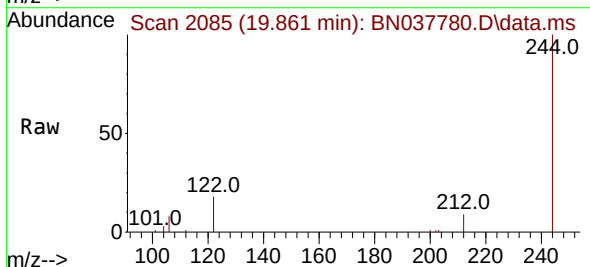
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

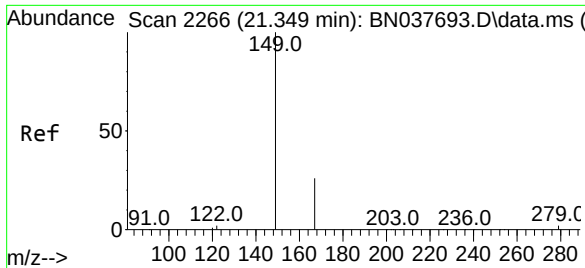
Tgt Ion:240 Resp: 13110
Ion Ratio Lower Upper
240 100
120 16.5 9.2 13.8#
236 28.7 22.6 33.8



#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:244 Resp: 10642
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 18.1 13.2 19.8

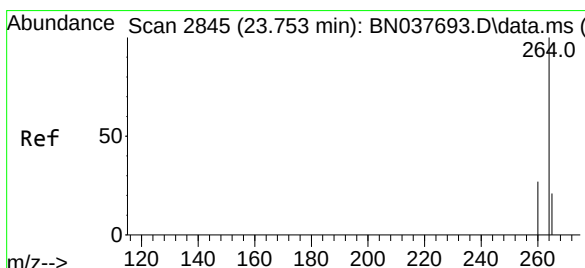
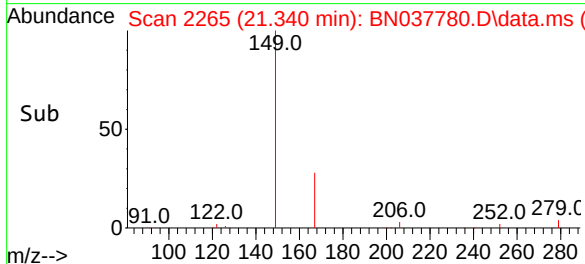
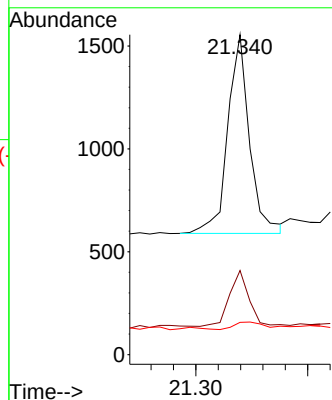
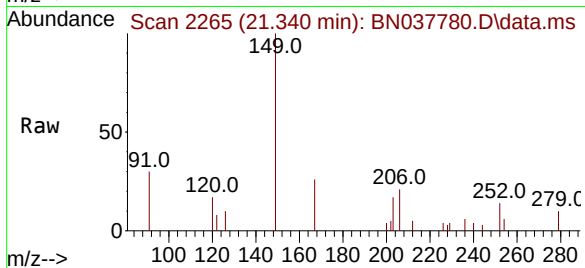




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.340 min Scan# 2134
Delta R.T. -0.009 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

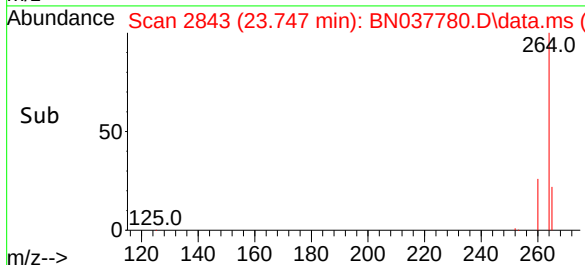
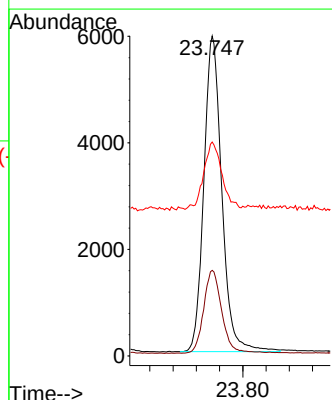
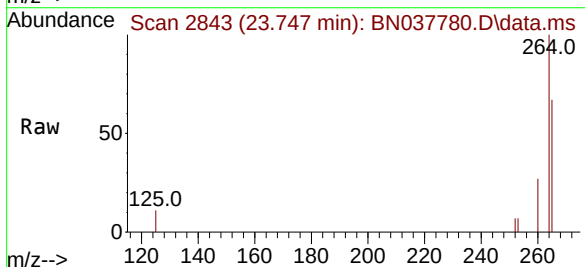
Instrument :
BNA_N
ClientSampleId :
RE125D3-20250911

Tgt Ion:149 Resp: 1305
Ion Ratio Lower Upper
149 100
167 25.6 20.8 31.2
279 6.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037780.D
Acq: 18 Sep 2025 17:00

Tgt Ion:264 Resp: 12712
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 66.9 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-06	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
BN037781.D	1	09/15/25 12:00	09/18/25 17:36	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.10	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6670	7.833				
1146-65-2	Naphthalene-d8	17700	10.637				
15067-26-2	Acenaphthene-d10	7700	14.484				
1517-22-2	Phenanthrene-d10	13800	17.235				
1719-03-5	Chrysene-d12	11300	21.411				
1520-96-3	Perylene-d12	11500	23.744				

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\BN091825\
Data File : BN037781.D
Acq On : 18 Sep 2025 17:36
Operator : RC/JU
Sample : Q3097-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Quant Time: Sep 18 18:05:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

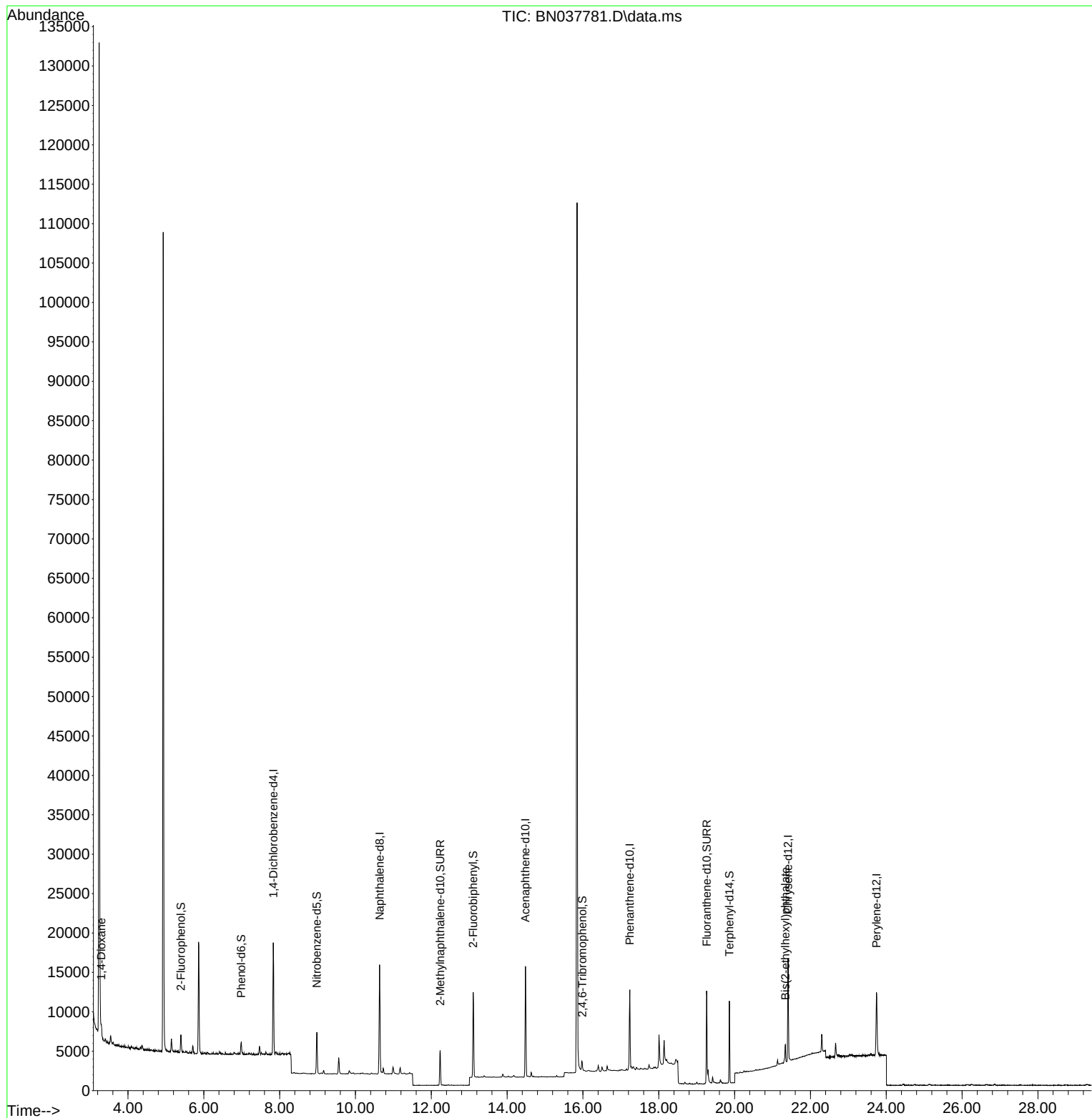
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6672	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17743	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7701	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13778	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11339	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	11507	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1893	0.124	ng	0.00
5) Phenol-d6	6.988	99	1438	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	4078	0.314	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	5959	0.254	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	793	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	9525	0.296	ng	-0.01
27) Fluoranthene-d10	19.262	212	12721	0.368	ng	0.00
31) Terphenyl-d14	19.861	244	9276	0.403	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	717	0.103	ng	# 73
34) Bis(2-ethylhexyl)phtha...	21.339	149	2861	0.244	ng	98

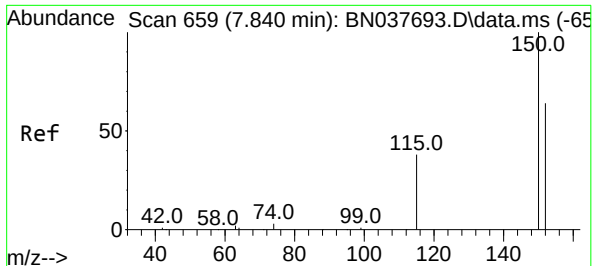
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037781.D
Acq On : 18 Sep 2025 17:36
Operator : RC/JU
Sample : Q3097-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

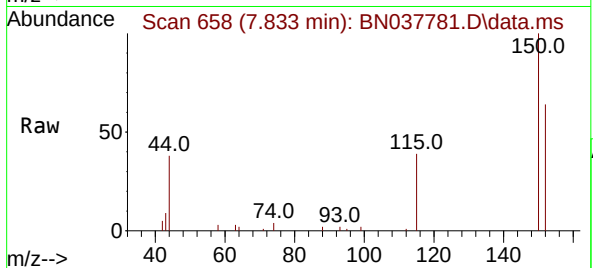
Quant Time: Sep 18 18:05:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



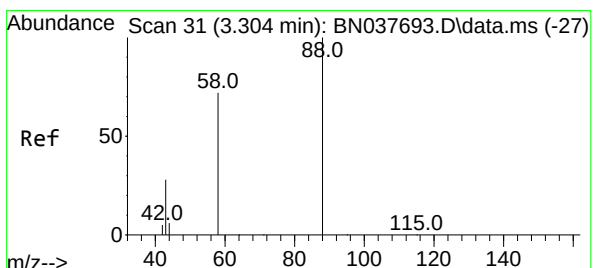
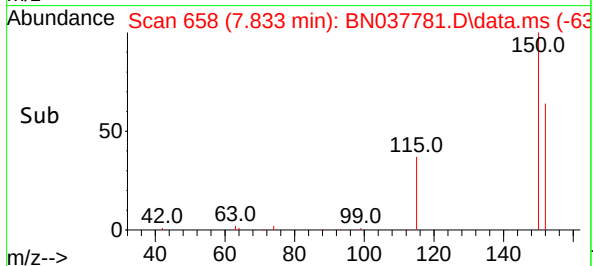
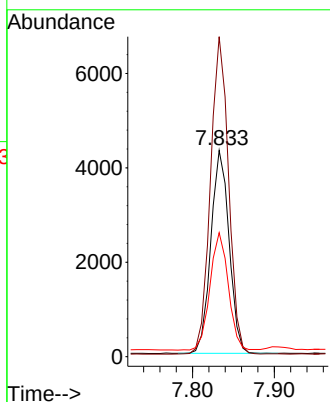


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

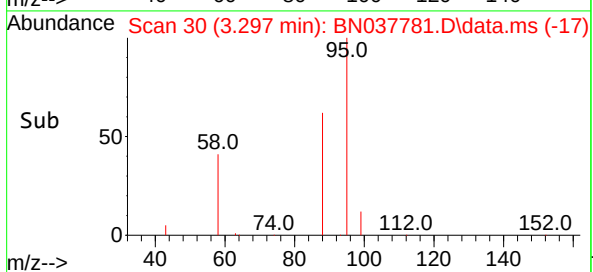
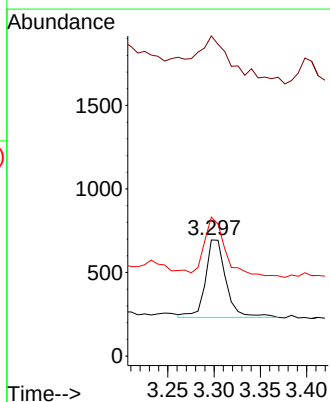
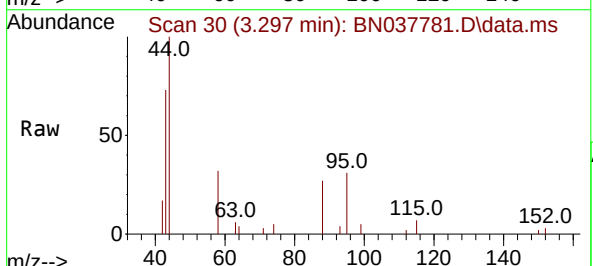


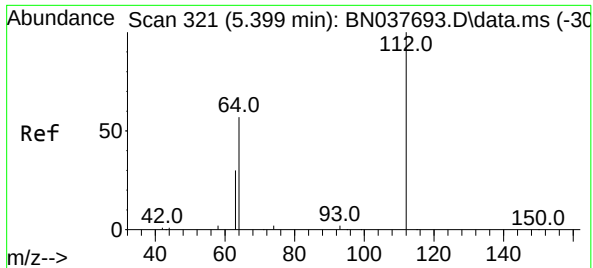
Tgt Ion: 152 Resp: 6672
Ion Ratio Lower Upper
152 100
150 155.1 124.5 186.7
115 60.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.103 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion: 88 Resp: 717
Ion Ratio Lower Upper
88 100
43 80.6 26.8 40.2#
58 74.3 61.9 92.9

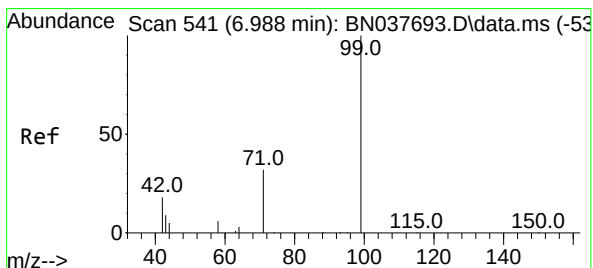
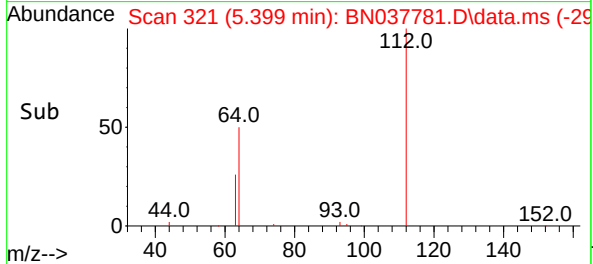
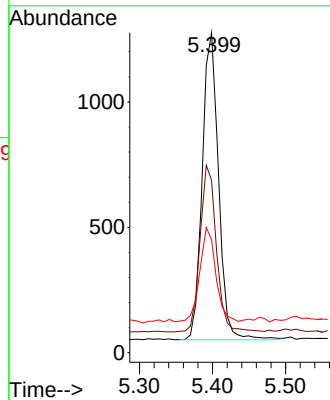
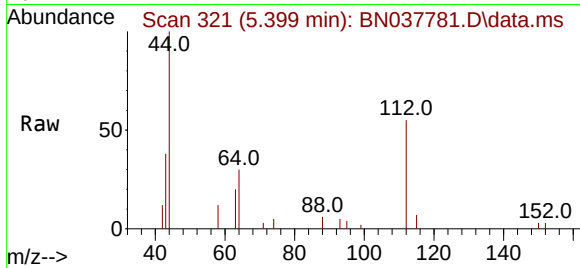




#4
2-Fluorophenol
Concen: 0.124 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

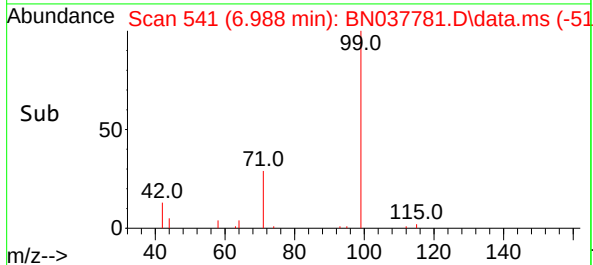
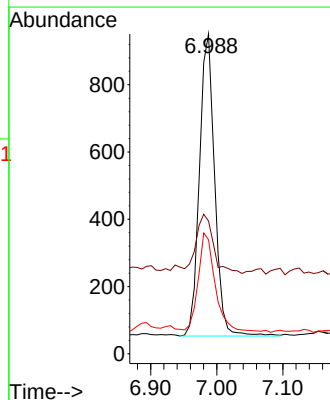
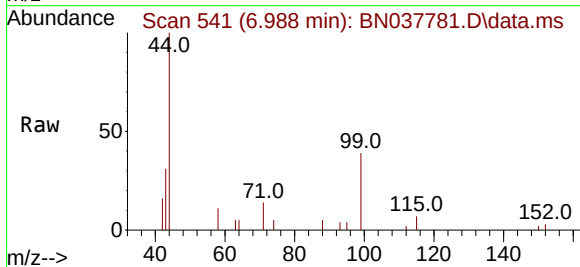
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

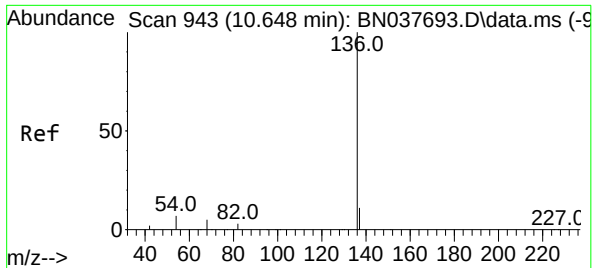
Tgt Ion:112 Resp: 1893
Ion Ratio Lower Upper
112 100
64 54.5 44.9 67.3
63 30.4 24.7 37.1



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion: 99 Resp: 1438
Ion Ratio Lower Upper
99 100
42 24.4 16.6 24.8
71 37.3 26.7 40.1

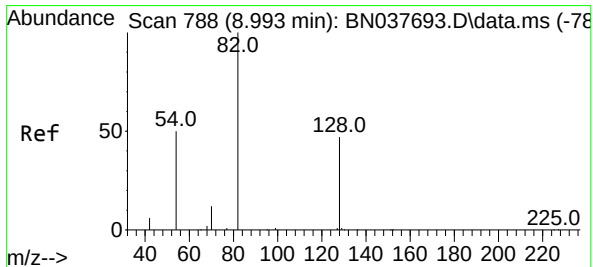
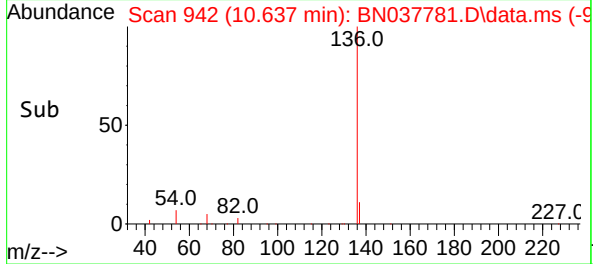
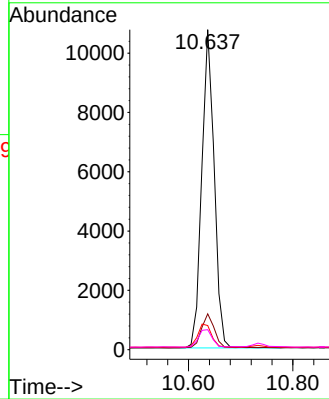
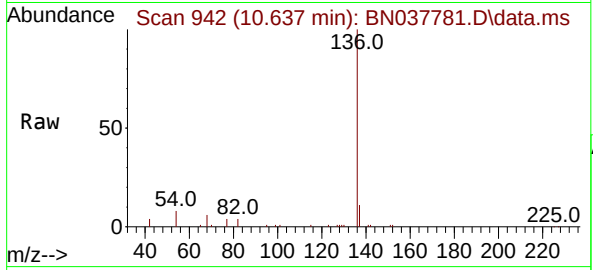




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

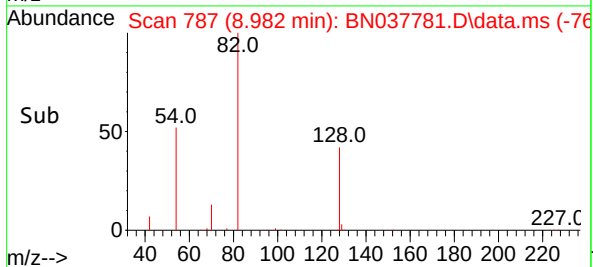
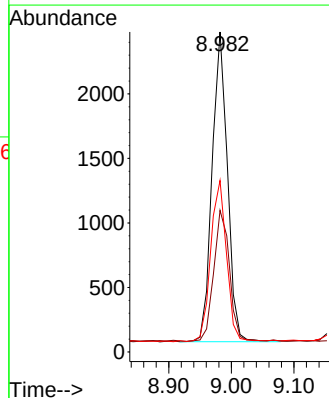
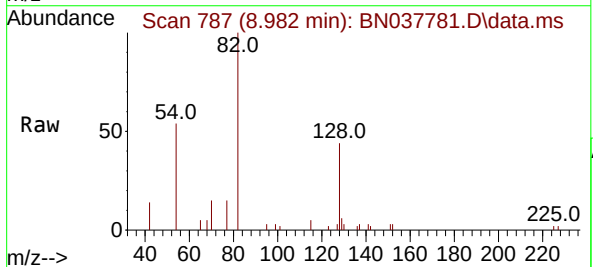
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

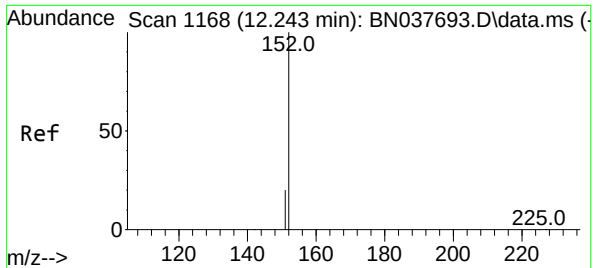
Tgt Ion:	136	Resp:	17743
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	6.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.314 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:	82	Resp:	4078
Ion	Ratio	Lower	Upper
82	100		
128	44.3	38.3	57.5
54	53.6	41.4	62.2

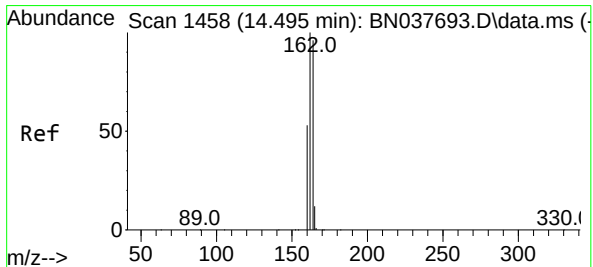
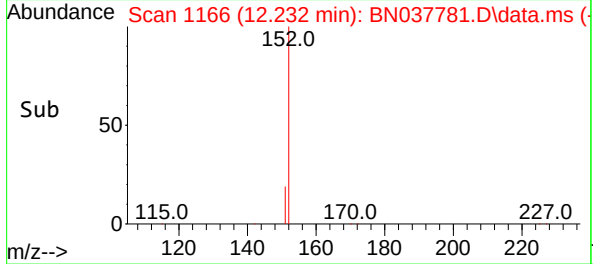
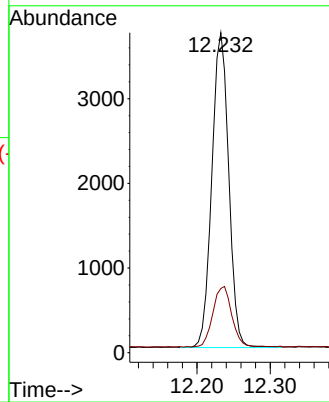
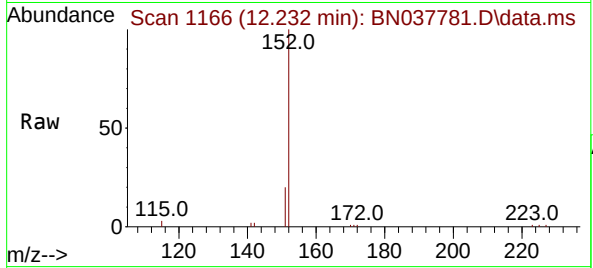




#11
2-Methylnaphthalene-d10
Concen: 0.254 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

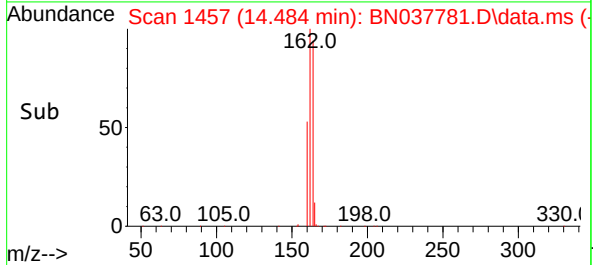
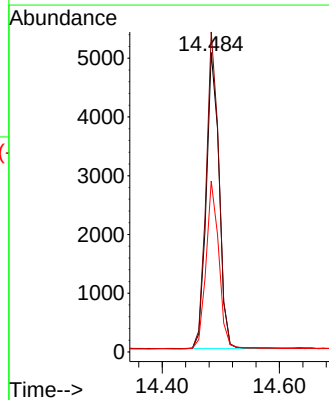
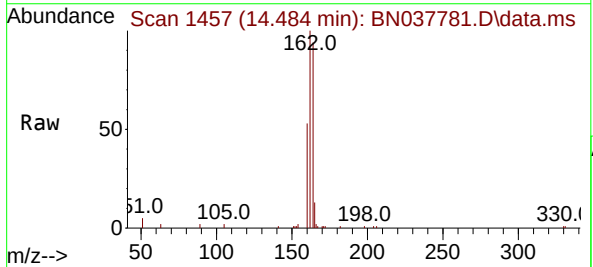
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

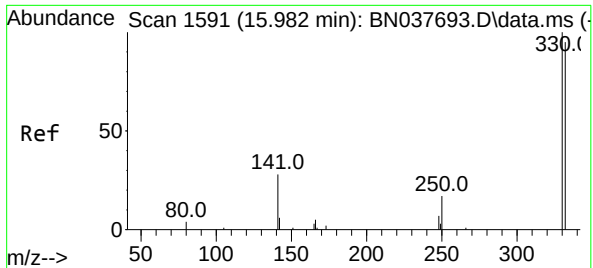
Tgt Ion:152 Resp: 5959
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:164 Resp: 7701
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 57.1 44.3 66.5

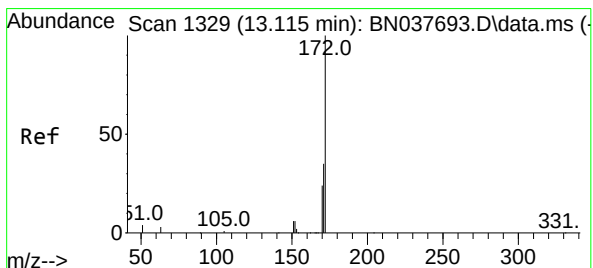
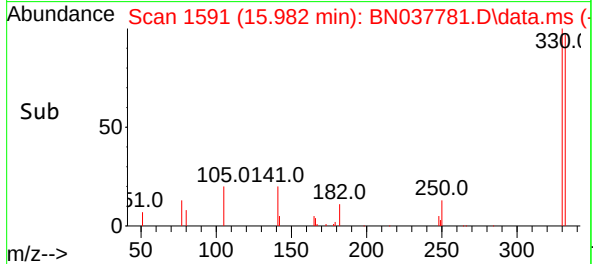
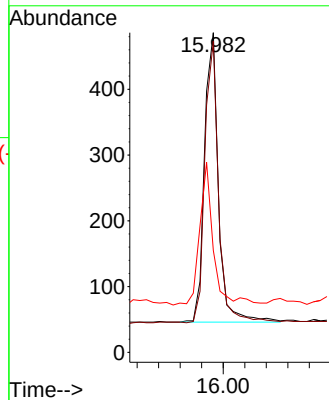
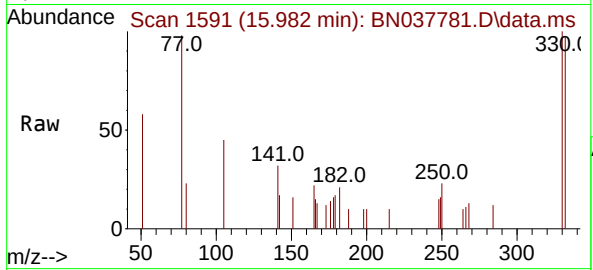




#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

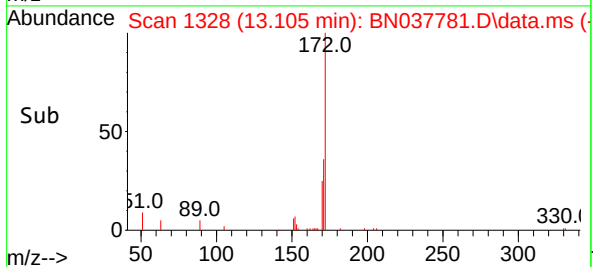
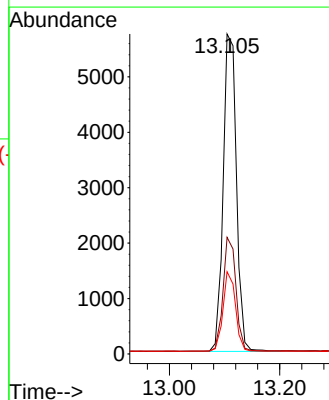
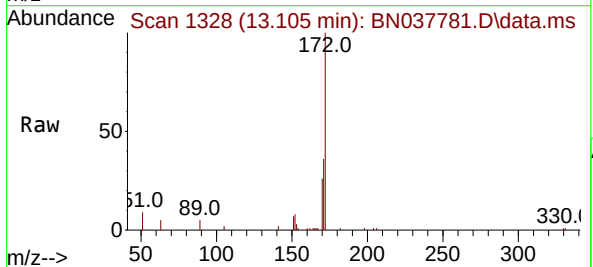
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

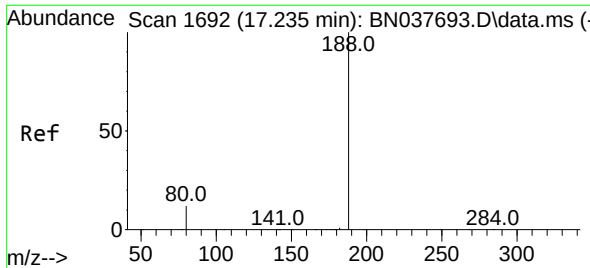
Tgt Ion	330	Resp	793
Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	48.0	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion	172	Resp	9525
Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	25.7	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037781.D

Acq: 18 Sep 2025 17:36

Instrument :

BNA_N

ClientSampleId :

RE103D3-20250911

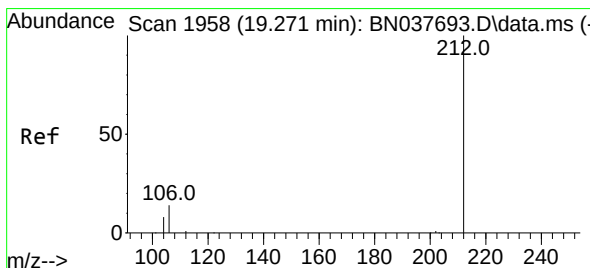
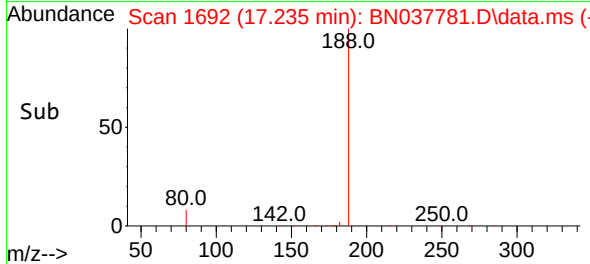
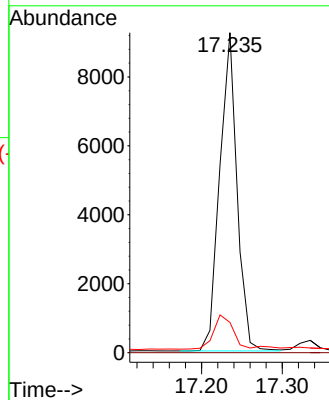
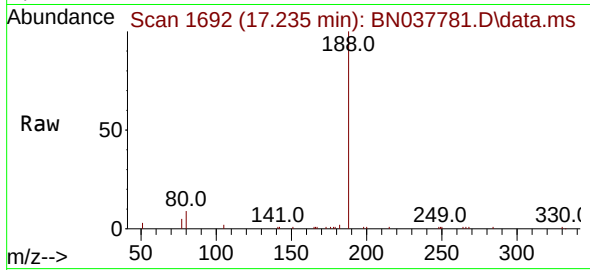
Tgt Ion:188 Resp: 13778

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.368 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.010 min

Lab File: BN037781.D

Acq: 18 Sep 2025 17:36

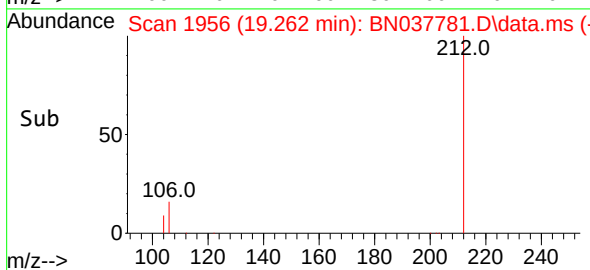
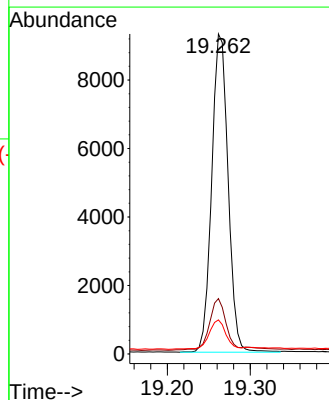
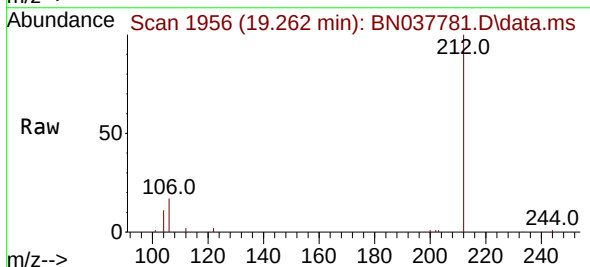
Tgt Ion:212 Resp: 12721

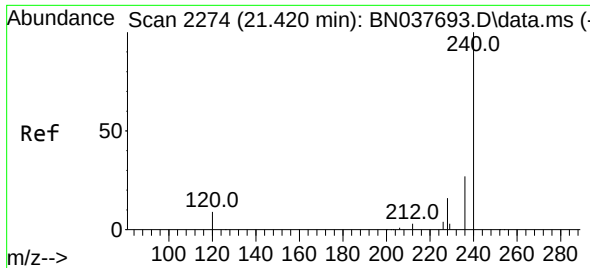
Ion Ratio Lower Upper

212 100

106 16.4 12.2 18.2

104 9.7 6.9 10.3

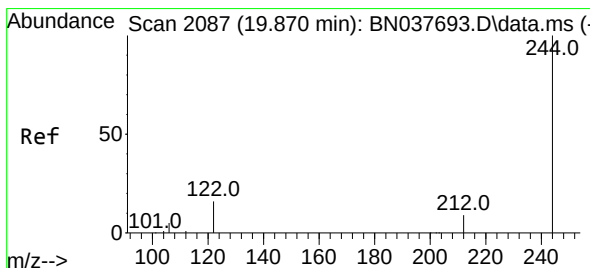
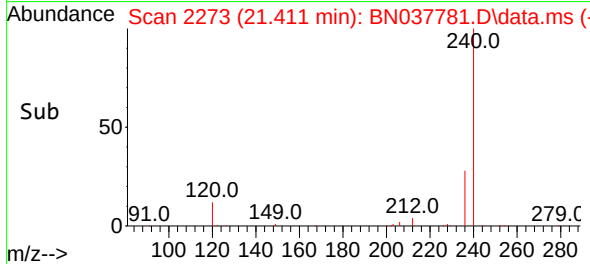
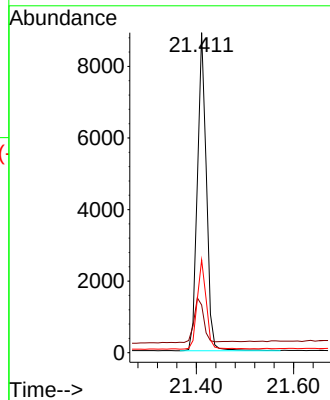
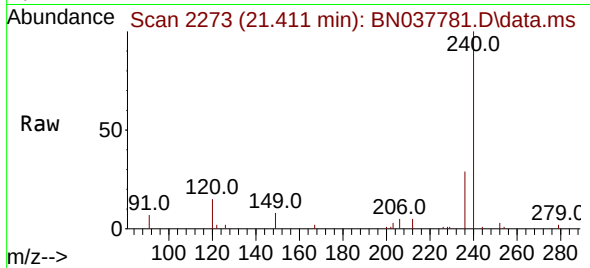




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

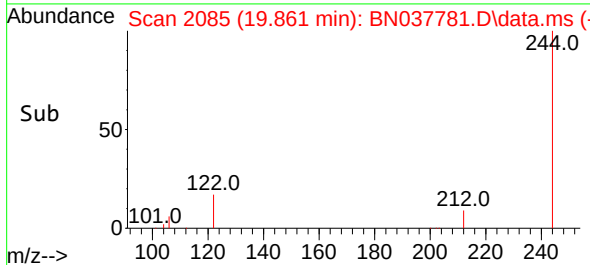
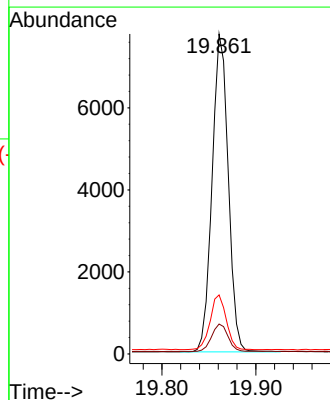
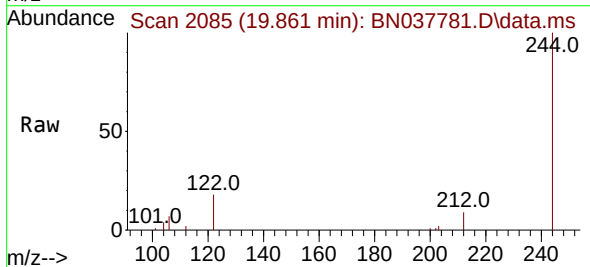
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

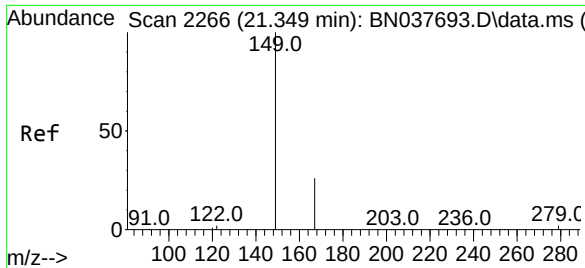
Tgt Ion:240 Resp: 11339
Ion Ratio Lower Upper
240 100
120 14.9 9.2 13.8#
236 29.0 22.6 33.8



#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.010 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:244 Resp: 9276
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 18.4 13.2 19.8

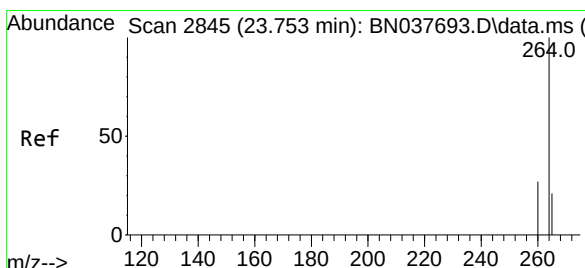
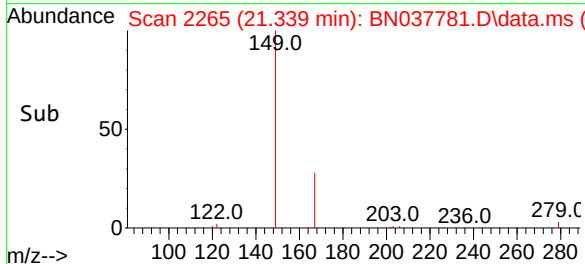
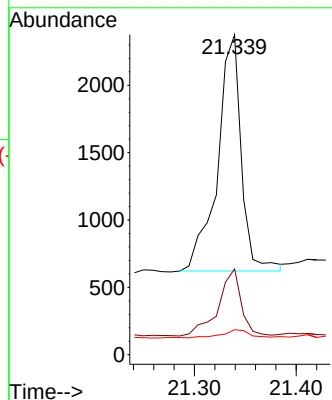
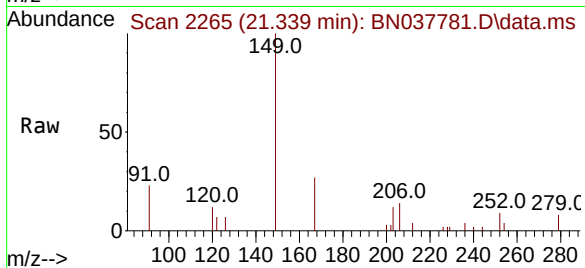




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.244 ng
RT: 21.339 min Scan# 21339
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

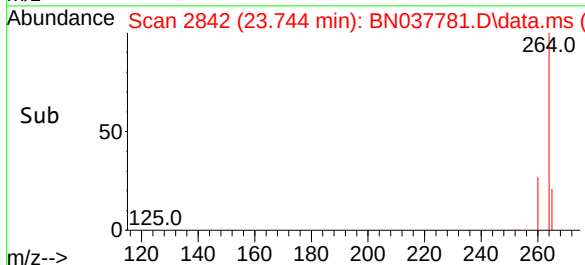
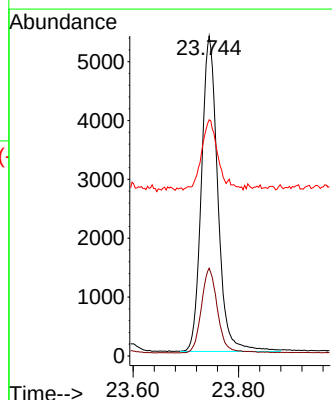
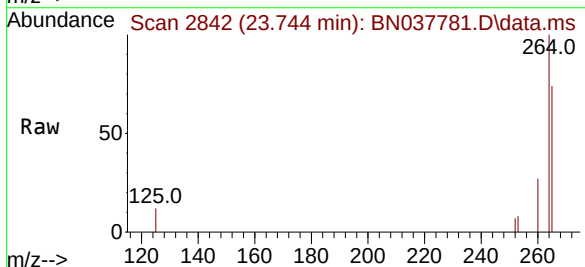
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250911

Tgt Ion:149 Resp: 2861
Ion Ratio Lower Upper
149 100
167 27.3 20.8 31.2
279 3.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037781.D
Acq: 18 Sep 2025 17:36

Tgt Ion:264 Resp: 11507
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 73.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-07	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
BN037769.D	1	09/15/25 12:00	09/18/25 08:47	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7630	7.833				
1146-65-2	Naphthalene-d8	20700	10.637				
15067-26-2	Acenaphthene-d10	9180	14.484				
1517-22-2	Phenanthrene-d10	15800	17.235				
1719-03-5	Chrysene-d12	12900	21.411				
1520-96-3	Perylene-d12	13800	23.744				

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\BN091725\
Data File : BN037769.D
Acq On : 18 Sep 2025 08:47
Operator : RC/JU
Sample : Q3097-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

Quant Time: Sep 18 10:45:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

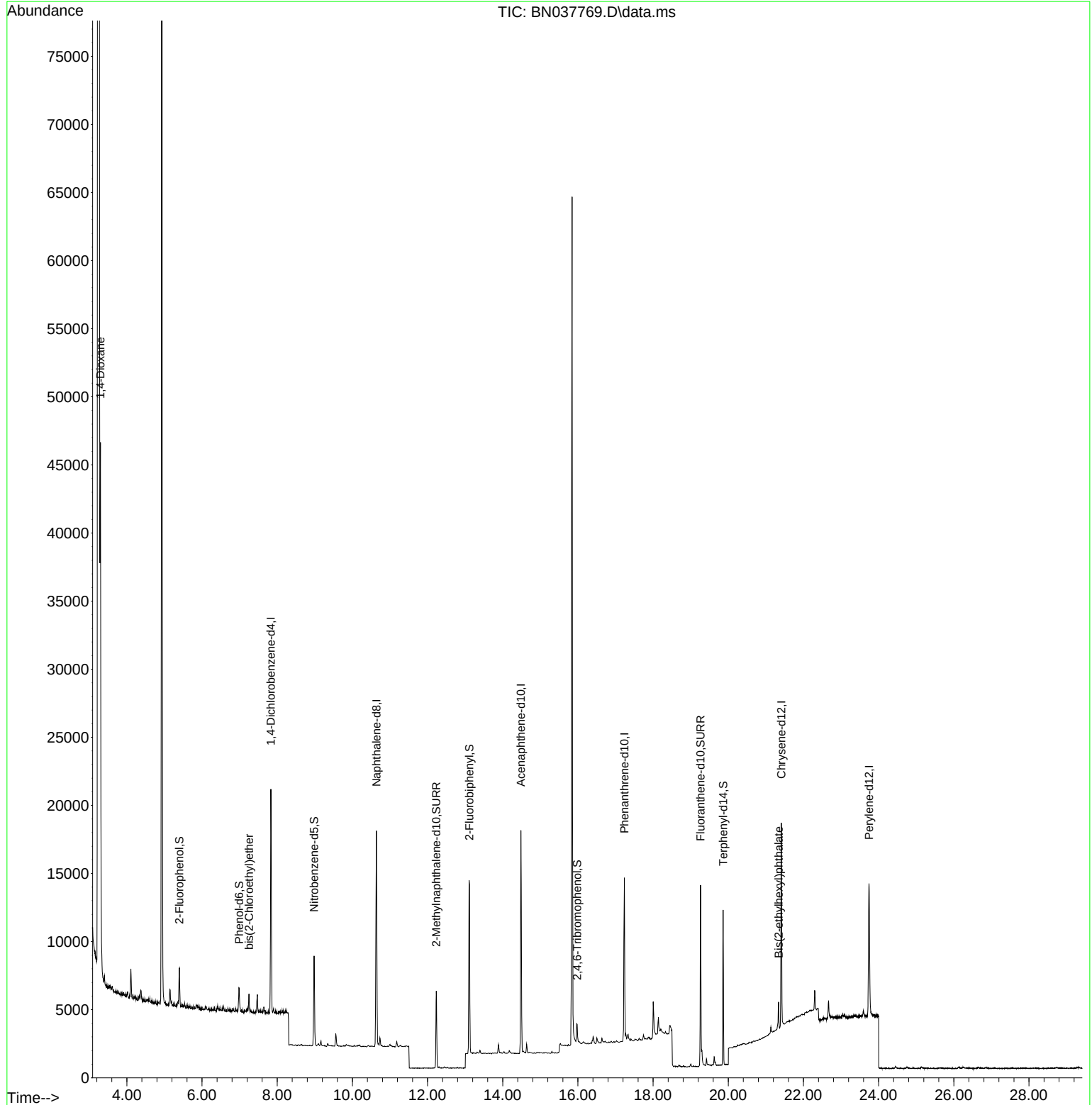
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.833	152	7633	0.400 ng	0.00
7) Naphthalene-d8	10.637	136	20699	0.400 ng	-0.01
13) Acenaphthene-d10	14.484	164	9180	0.400 ng	-0.01
19) Phenanthrene-d10	17.235	188	15761	0.400 ng	# 0.00
29) Chrysene-d12	21.411	240	12936	0.400 ng	# 0.00
35) Perylene-d12	23.744	264	13802	0.400 ng	# 0.00
System Monitoring Compounds					
4) 2-Fluorophenol	5.399	112	2354	0.134 ng	0.00
5) Phenol-d6	6.988	99	1725	0.076 ng	0.00
8) Nitrobenzene-d5	8.982	82	4954	0.327 ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7708	0.281 ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	947	0.396 ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12078	0.315 ng	0.00
27) Fluoranthene-d10	19.262	212	14465	0.366 ng	0.00
31) Terphenyl-d14	19.861	244	10438	0.398 ng	0.00
Target Compounds					
2) 1,4-Dioxane	3.297	88	16466	2.071 ng	96
6) bis(2-Chloroethyl)ether	7.248	93	816	0.040 ng	96
34) Bis(2-ethylhexyl)phtha...	21.340	149	2243	0.168 ng	97

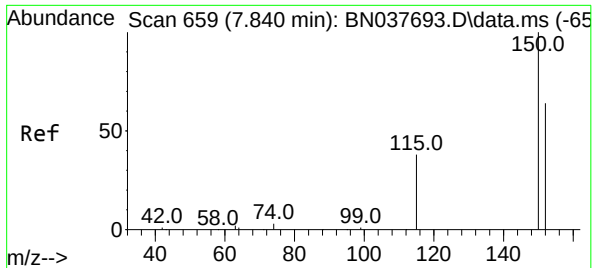
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037769.D
Acq On : 18 Sep 2025 08:47
Operator : RC/JU
Sample : Q3097-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

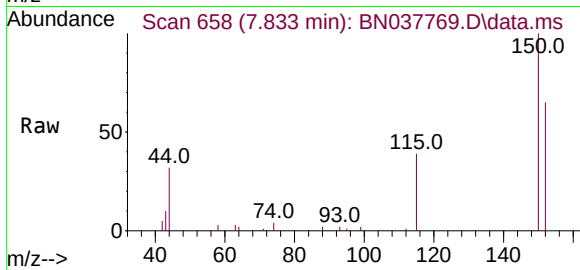
Quant Time: Sep 18 10:45:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



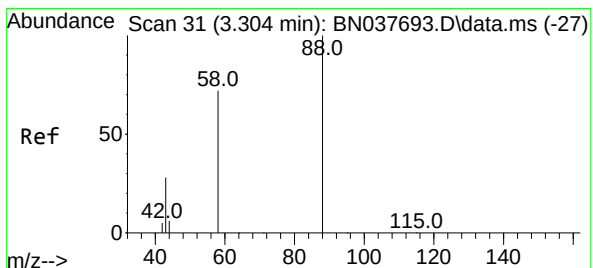
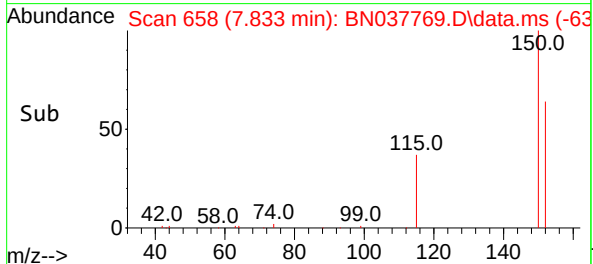
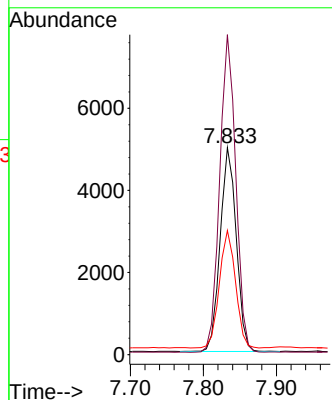


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

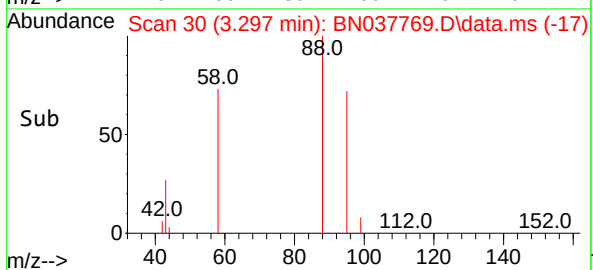
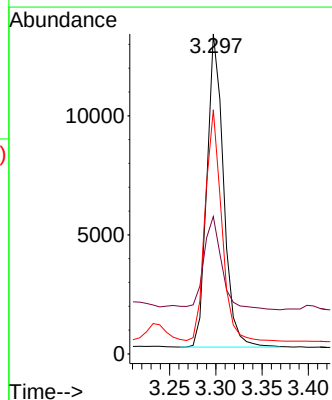
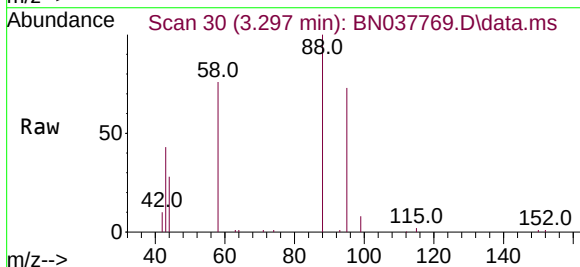


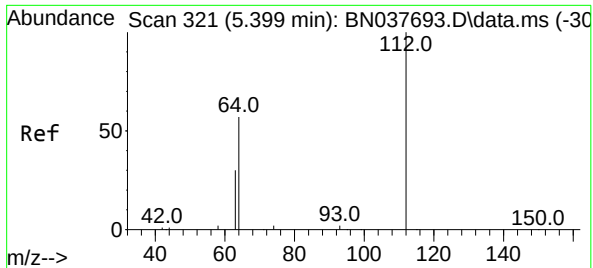
Tgt Ion:152 Resp: 7633
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 59.9 49.2 73.8



#2
1,4-Dioxane
Concen: 2.071 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion: 88 Resp: 16466
Ion Ratio Lower Upper
88 100
43 32.0 26.8 40.2
58 72.9 61.9 92.9

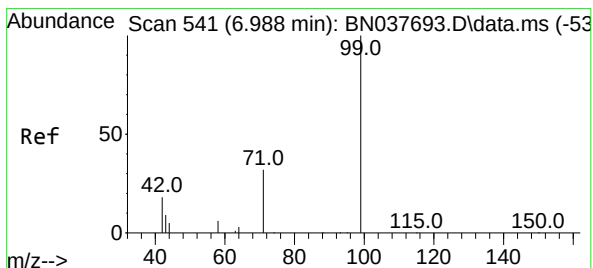
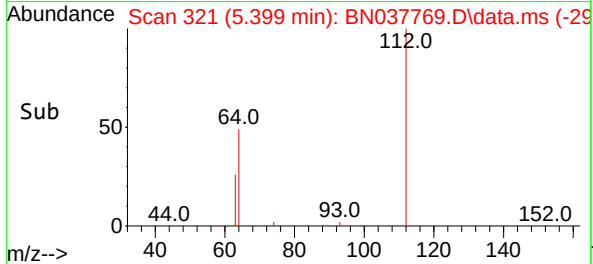
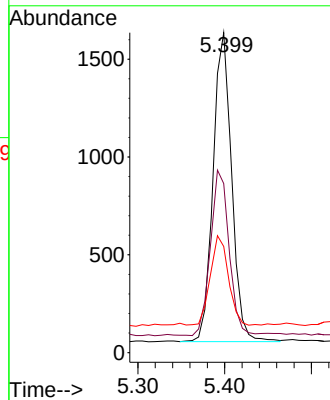
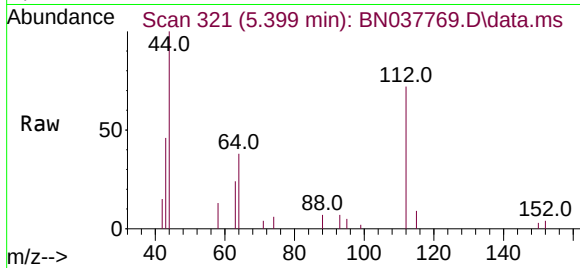




#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

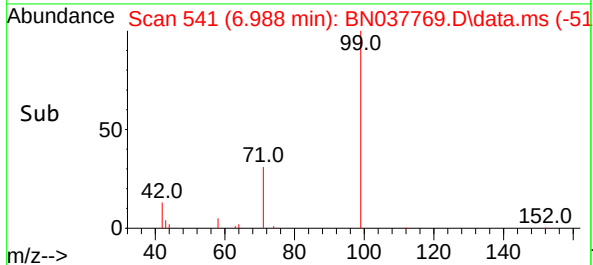
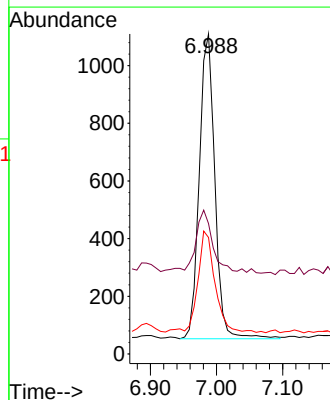
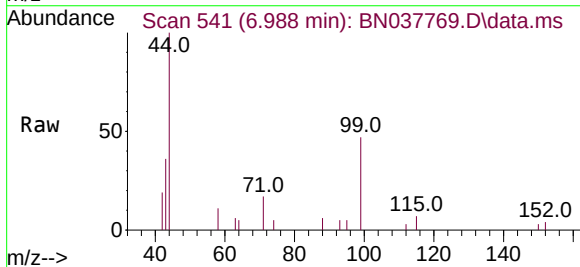
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

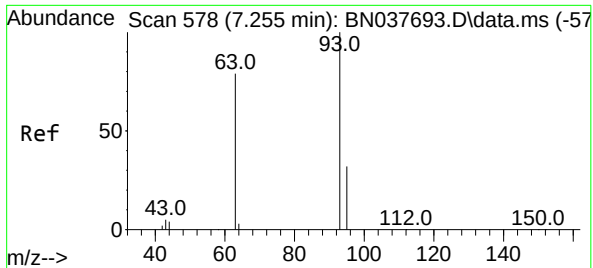
Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.4	44.9	67.3
63	28.0	24.7	37.1



#5
Phenol-d6
Concen: 0.076 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.9	16.6	24.8
71	37.3	26.7	40.1

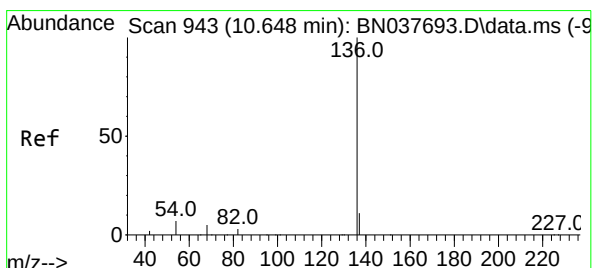
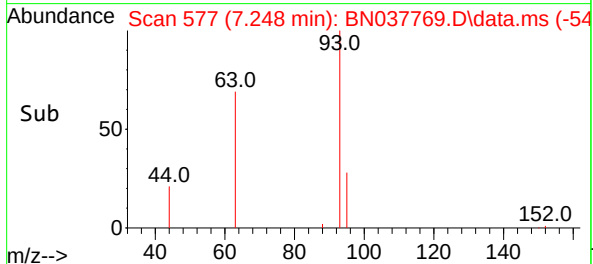
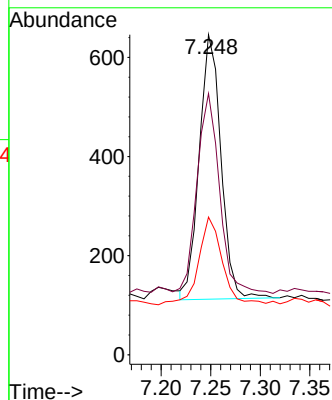
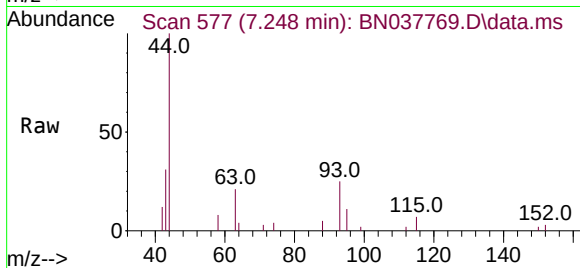




#6
bis(2-Chloroethyl)ether
Concen: 0.040 ng
RT: 7.248 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

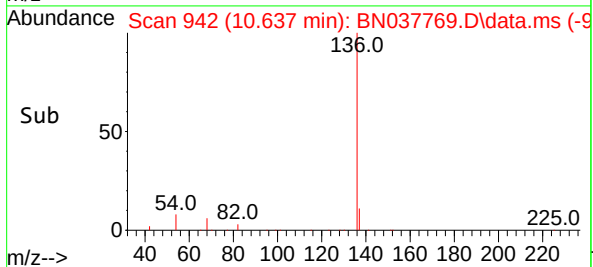
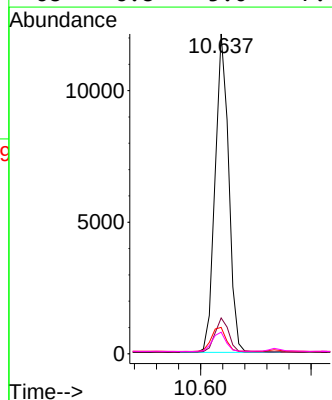
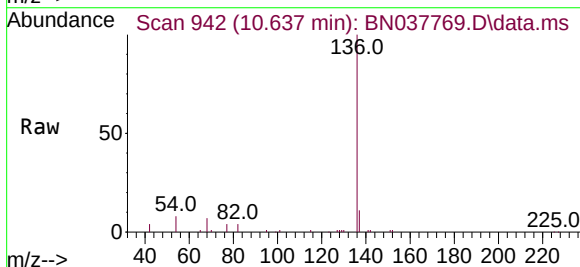
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

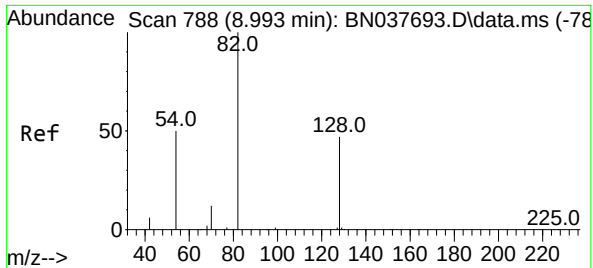
Tgt Ion:	93	Resp:	816
Ion	Ratio	Lower	Upper
93	100		
63	78.1	60.6	90.8
95	36.2	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:	136	Resp:	20699
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.3	6.3	9.5
68	6.8	5.0	7.4

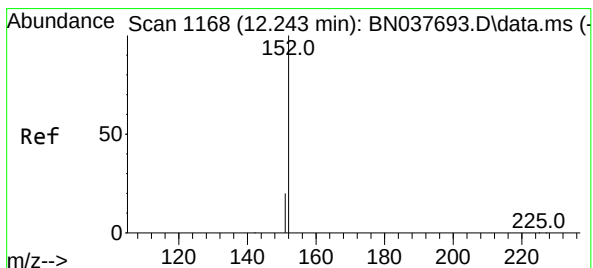
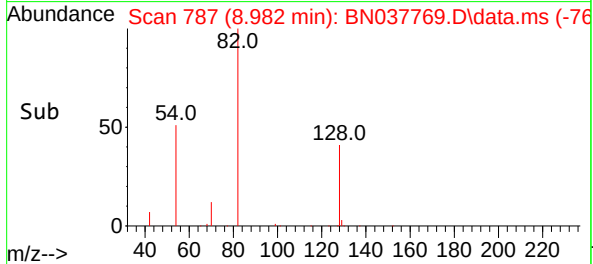
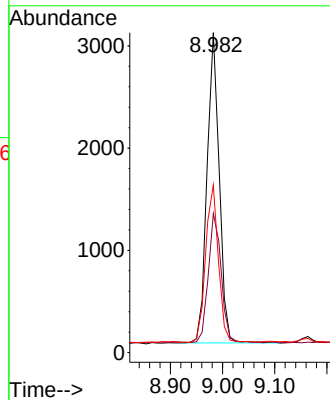
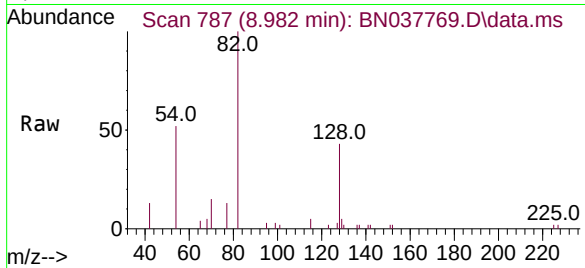




#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 788
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

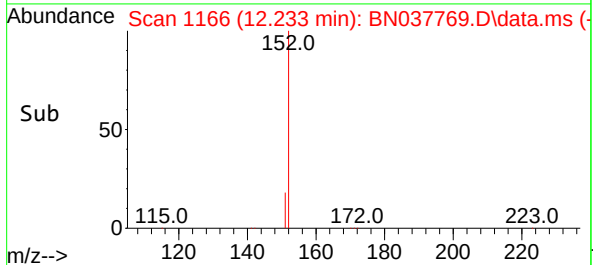
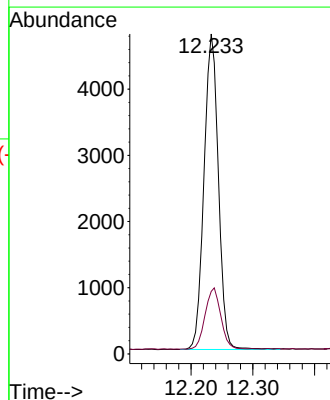
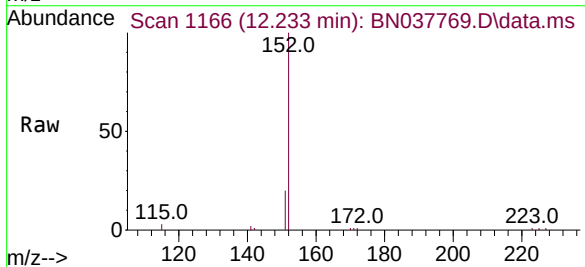
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

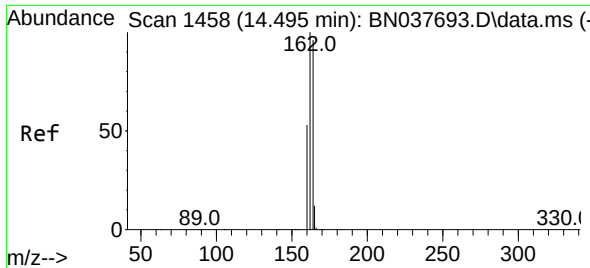
Tgt Ion:	82	Resp:	4954
Ion	Ratio	Lower	Upper
82	100		
128	43.4	38.3	57.5
54	52.4	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.281 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion:	152	Resp:	7708
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

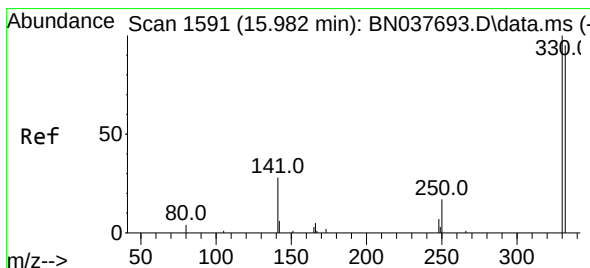
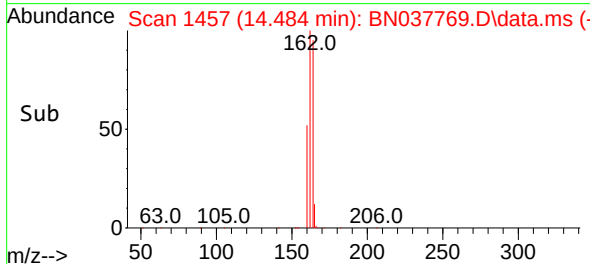
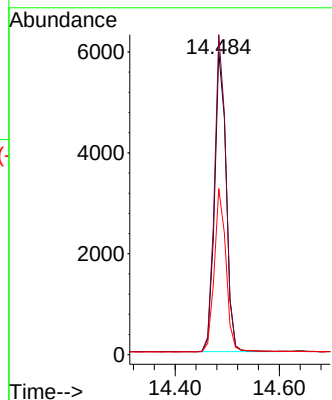
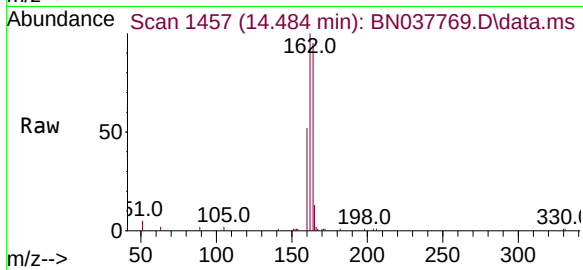




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

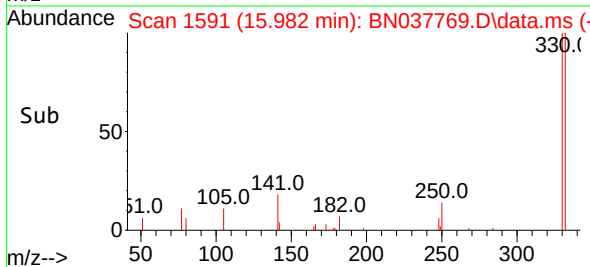
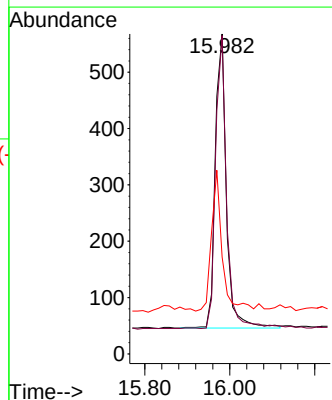
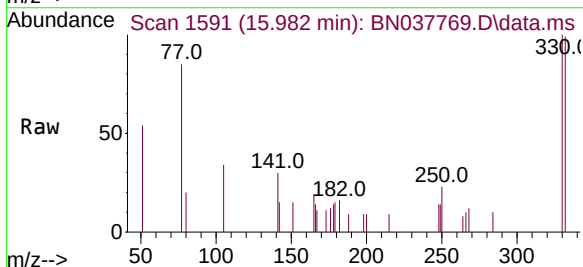
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

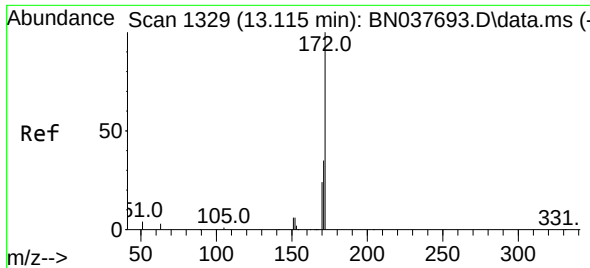
Tgt Ion	164	Resp:	9180
Ion	Ratio	Lower	Upper
164	100		
162	105.8	83.1	124.7
160	54.9	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion	330	Resp:	947
Ion	Ratio	Lower	Upper
330	100		
332	98.4	75.3	112.9
141	46.0	35.0	52.4

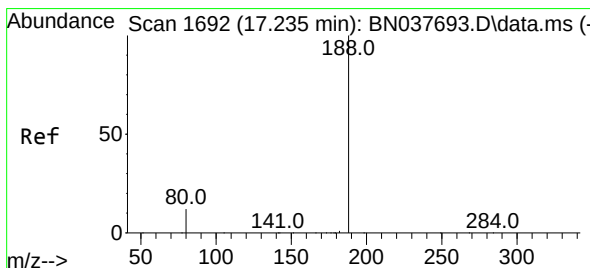
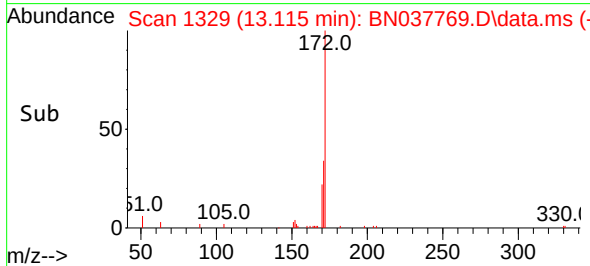
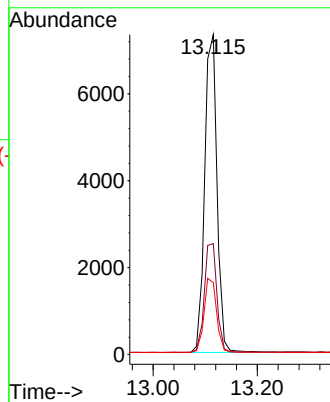
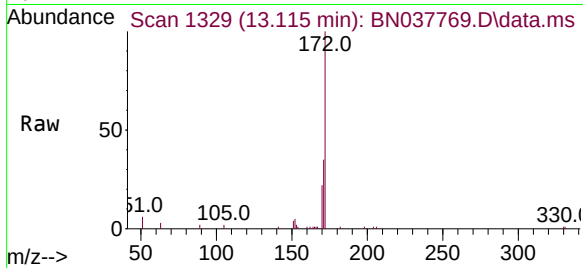




#15
2-Fluorobiphenyl
Concen: 0.315 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

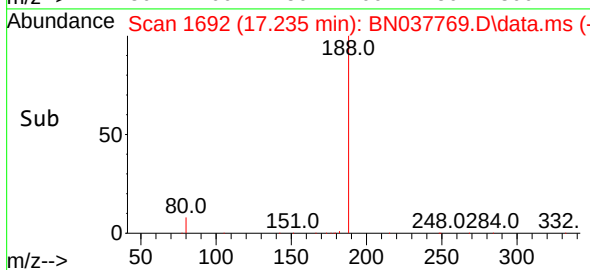
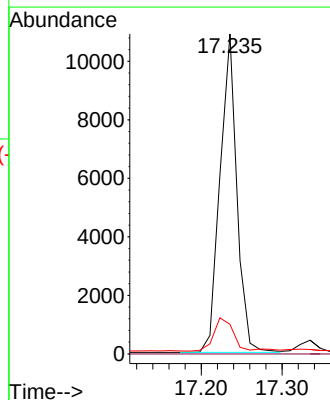
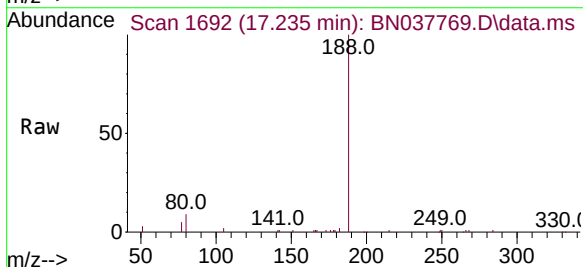
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

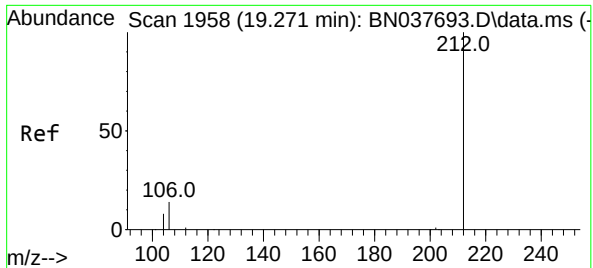
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	22.5	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	10.6	15.8

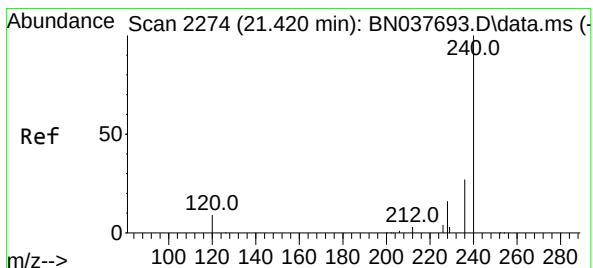
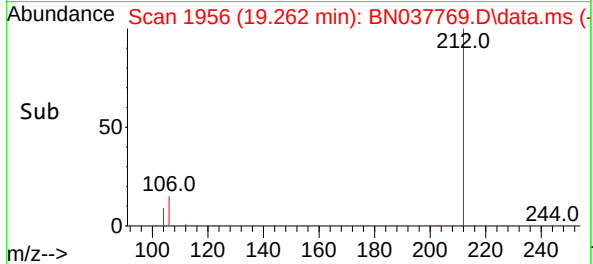
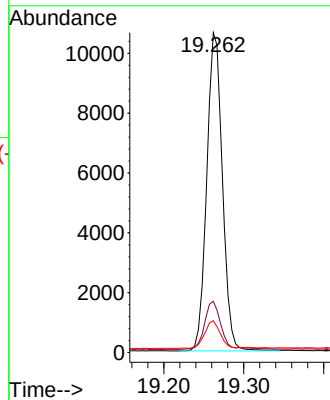
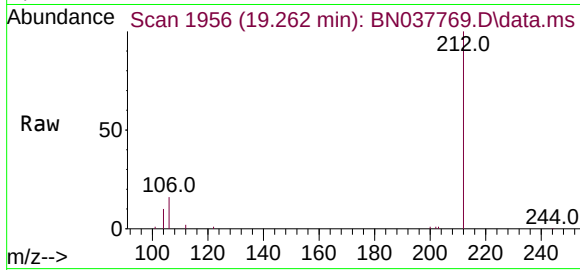




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

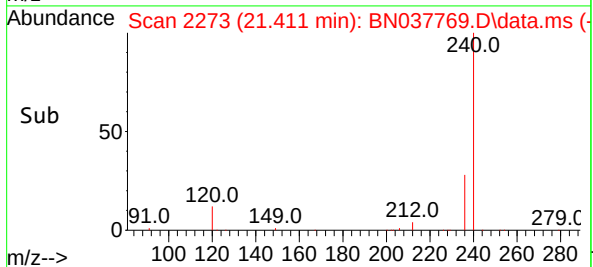
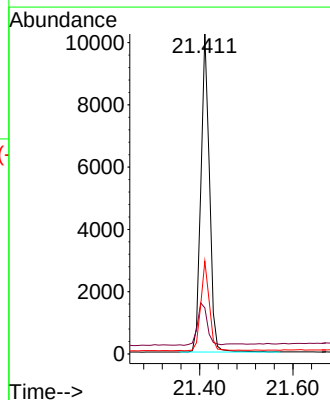
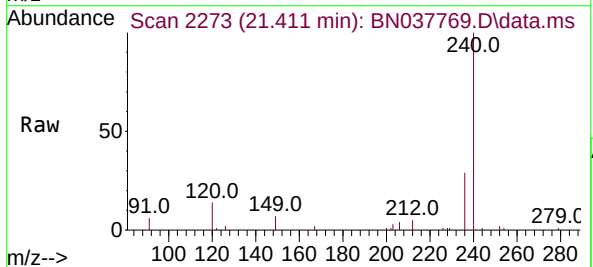
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

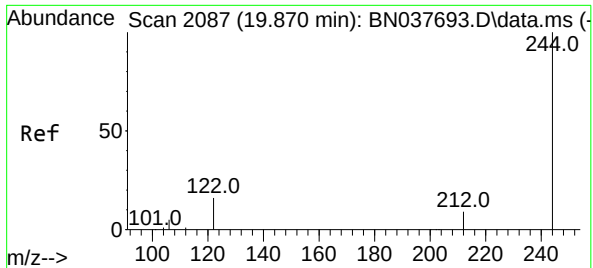
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.4	9.2	13.8
236	29.0	22.6	33.8

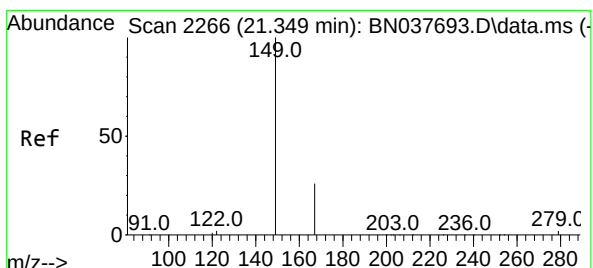
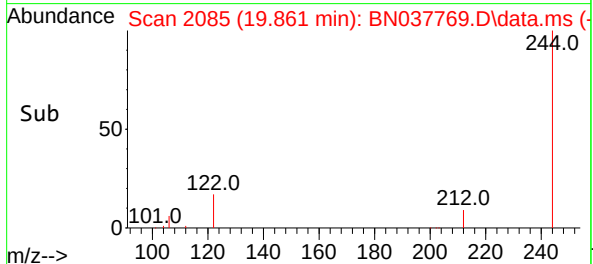
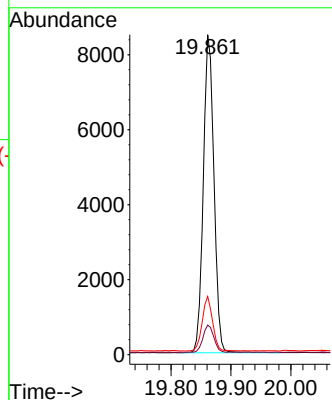
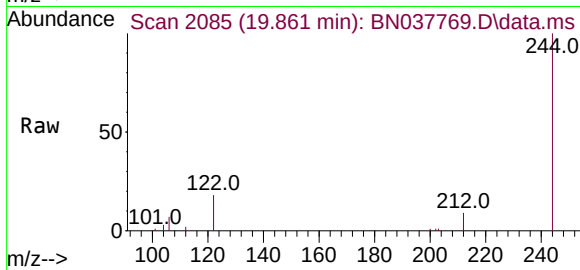




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

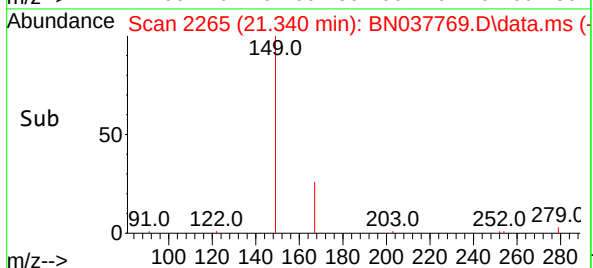
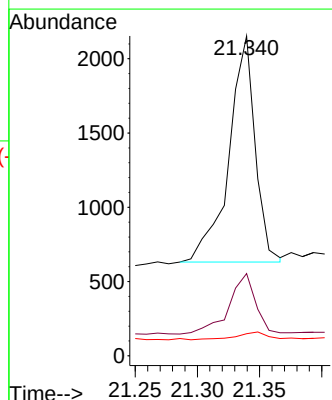
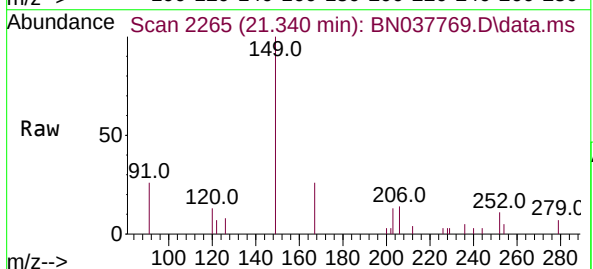
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250911

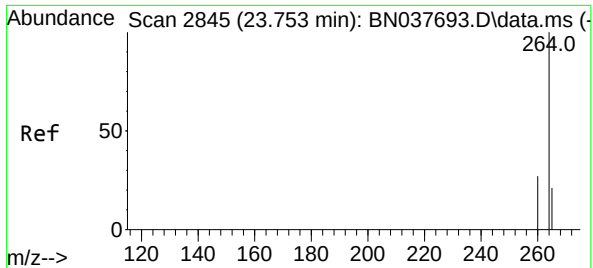
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	18.2	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.168 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037769.D
Acq: 18 Sep 2025 08:47

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.4	20.8	31.2
279	4.5	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.744 min Scan# 2845

Delta R.T. -0.009 min

Lab File: BN037769.D

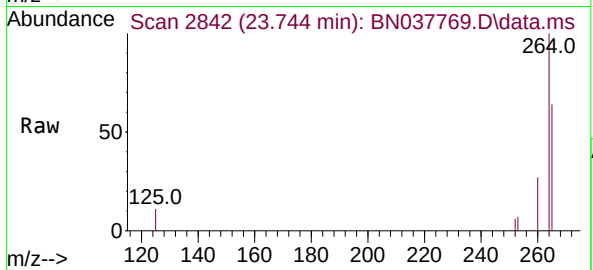
Acq: 18 Sep 2025 08:47

Instrument :

BNA_N

ClientSampleId :

RE108D2-20250911



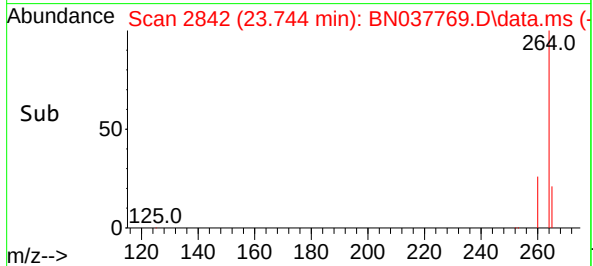
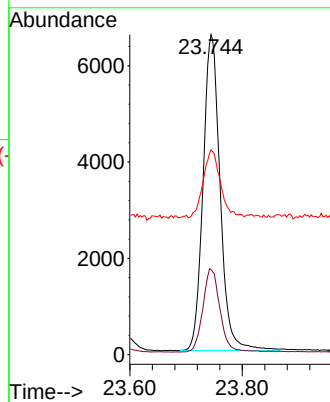
Tgt Ion:264 Resp: 13802

Ion Ratio Lower Upper

264 100

260 26.6 21.8 32.8

265 63.9 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-08	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
BN037770.D	1	09/15/25 12:00	09/18/25 09:23	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	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	6450	7.833				
1146-65-2	Naphthalene-d8	17900	10.637				
15067-26-2	Acenaphthene-d10	8770	14.484				
1517-22-2	Phenanthrene-d10	17400	17.235				
1719-03-5	Chrysene-d12	16000	21.411				
1520-96-3	Perylene-d12	16200	23.744				

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\BN091725\
Data File : BN037770.D
Acq On : 18 Sep 2025 09:23
Operator : RC/JU
Sample : Q3097-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Quant Time: Sep 18 10:46:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

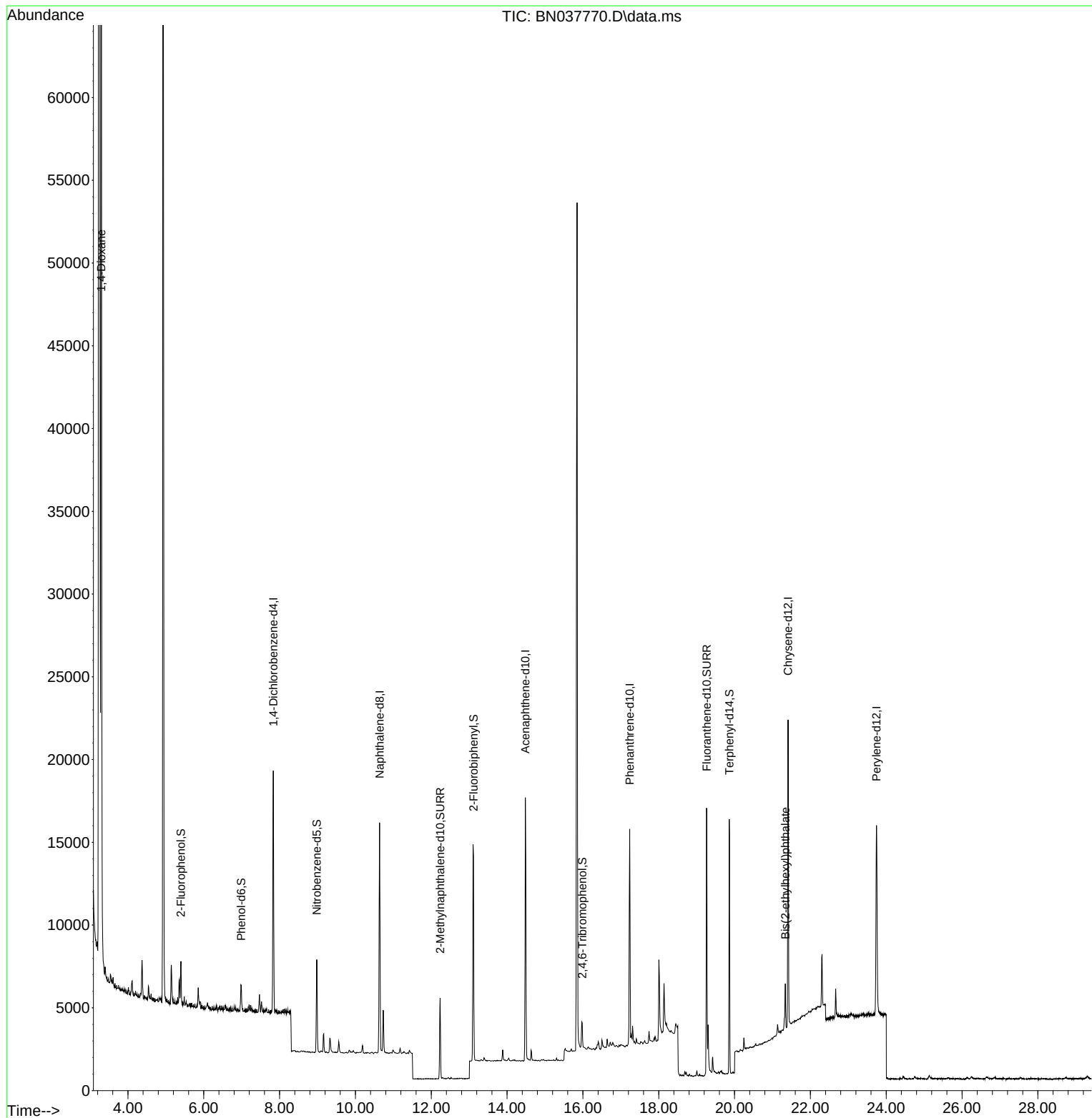
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6450	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17916	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8773	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	17405	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	15996	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	16222	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1985	0.134	ng	0.00
5) Phenol-d6	6.988	99	1468	0.076	ng	0.00
8) Nitrobenzene-d5	8.982	82	4262	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	6501	0.274	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1105	0.483	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12202	0.333	ng	0.00
27) Fluoranthene-d10	19.267	212	17584	0.402	ng	0.00
31) Terphenyl-d14	19.861	244	14051	0.433	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	49729	7.402	ng	95
34) Bis(2-ethylhexyl)phtha...	21.340	149	3261	0.197	ng	100

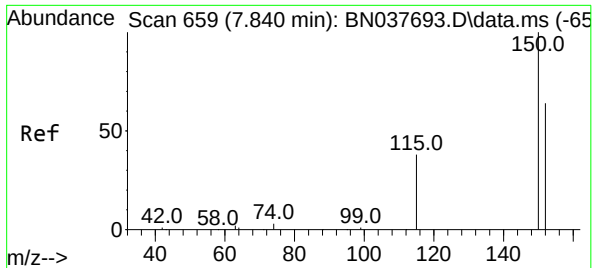
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037770.D
Acq On : 18 Sep 2025 09:23
Operator : RC/JU
Sample : Q3097-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

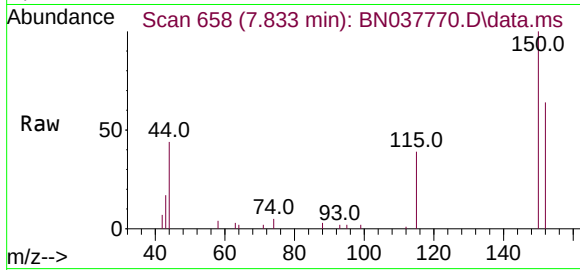
Quant Time: Sep 18 10:46:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



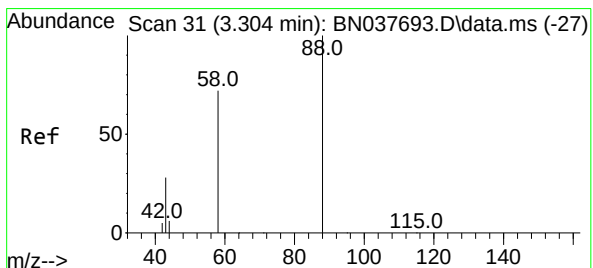
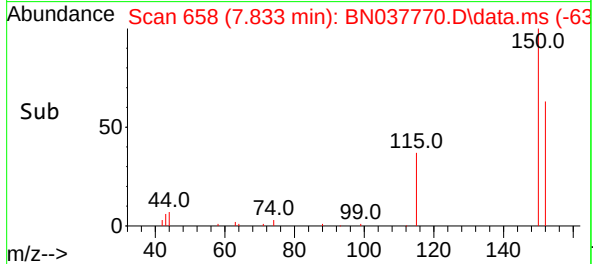
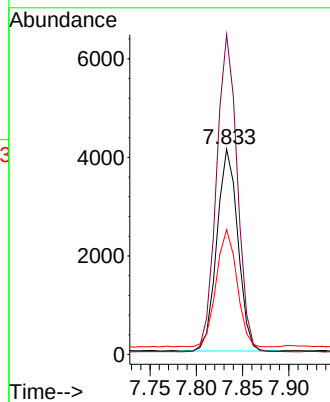


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

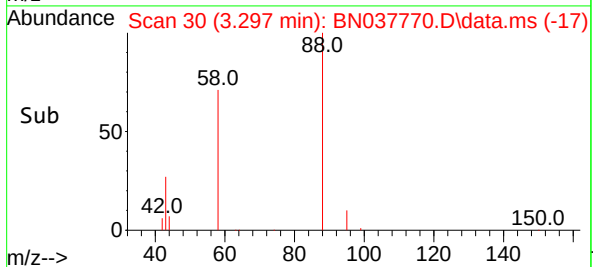
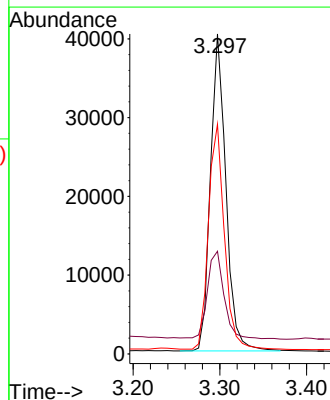
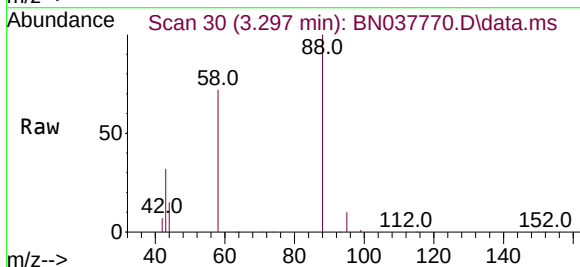


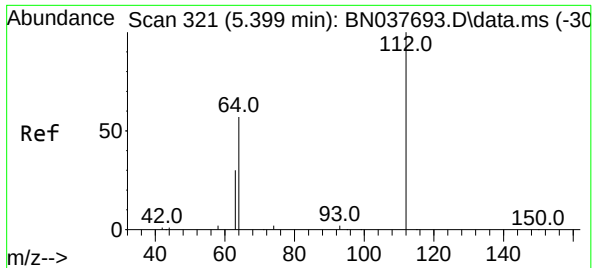
Tgt Ion:152 Resp: 6450
Ion Ratio Lower Upper
152 100
150 155.7 124.5 186.7
115 60.7 49.2 73.8



#2
1,4-Dioxane
Concen: 7.402 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion: 88 Resp: 49729
Ion Ratio Lower Upper
88 100
43 30.2 26.8 40.2
58 73.0 61.9 92.9

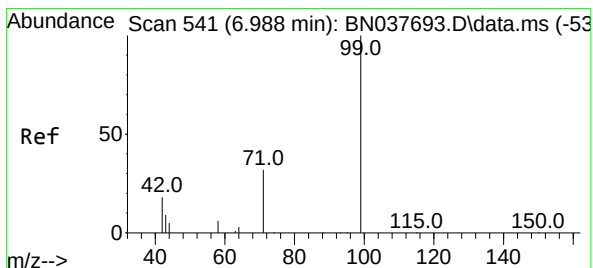
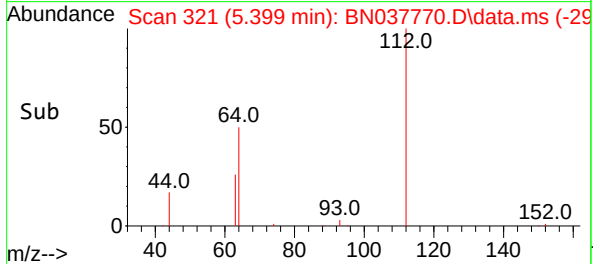
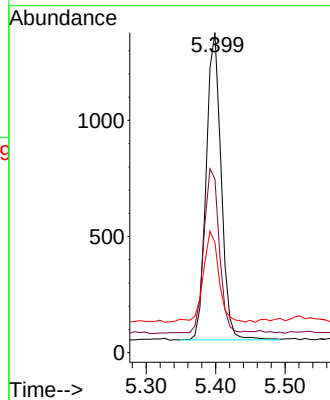
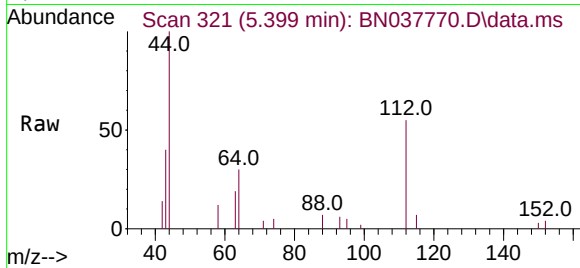




#4
2-Fluorophenol
Concen: 0.134 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

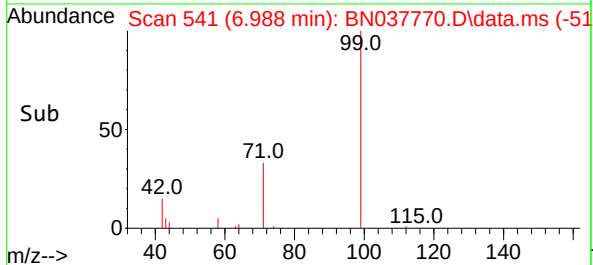
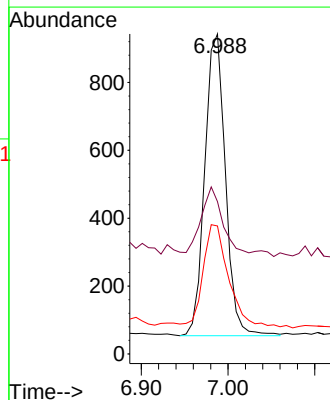
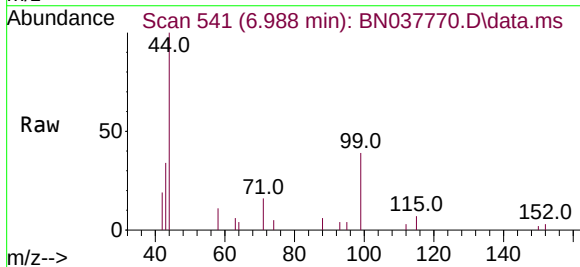
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

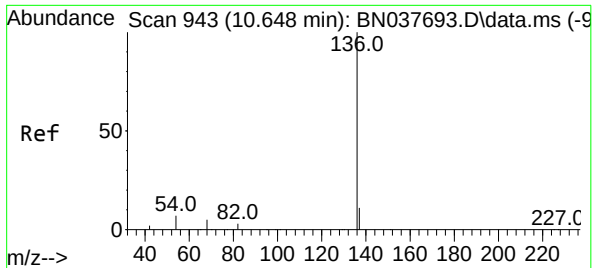
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.8	24.7	37.1



#5
Phenol-d6
Concen: 0.076 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	43.0	26.7	40.1

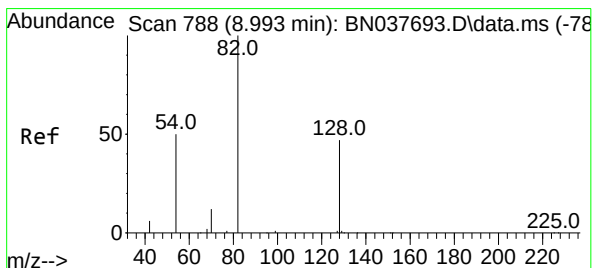
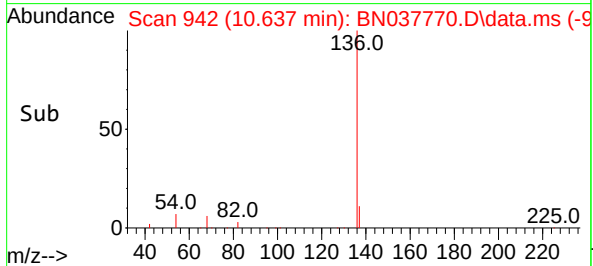
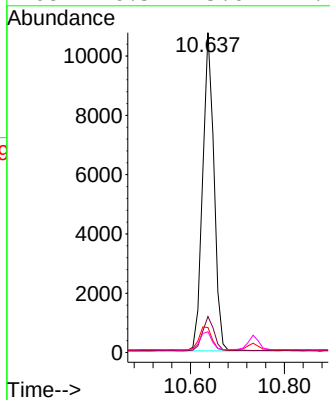
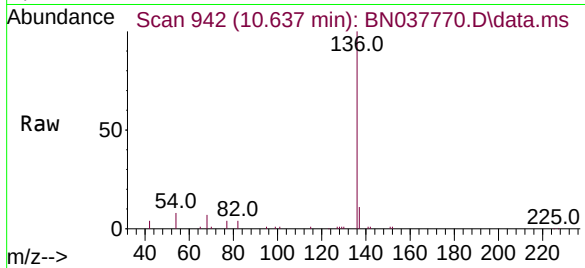




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

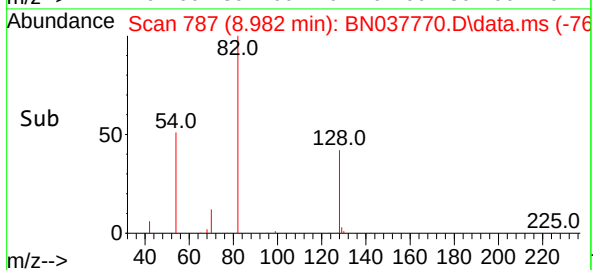
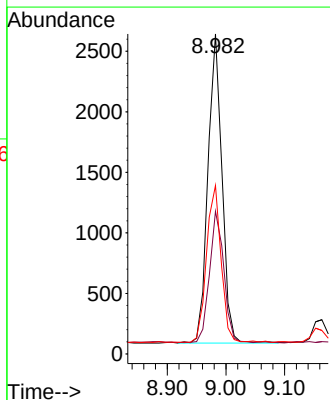
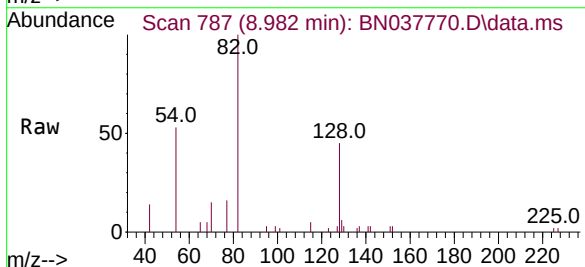
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

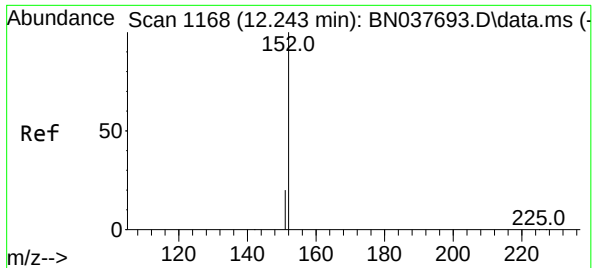
Tgt Ion:136	Resp:	17916
Ion	Ratio	Lower Upper
136	100	
137	11.3	9.1 13.7
54	7.8	6.3 9.5
68	6.5	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion: 82	Resp:	4262
Ion	Ratio	Lower Upper
82	100	
128	44.6	38.3 57.5
54	52.6	41.4 62.2

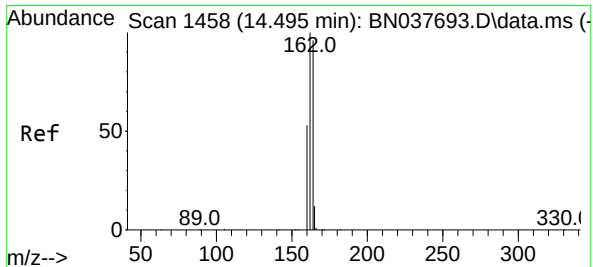
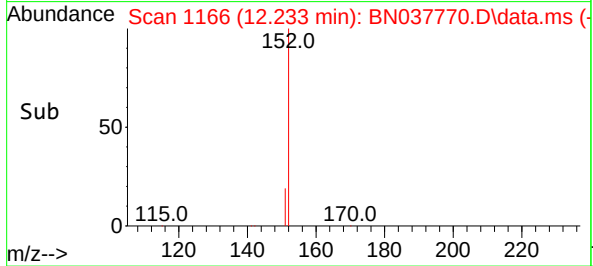
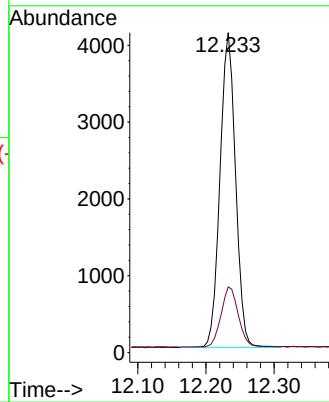
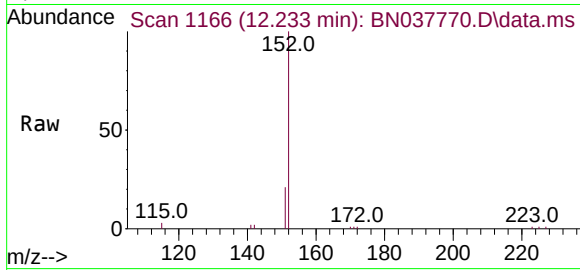




#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

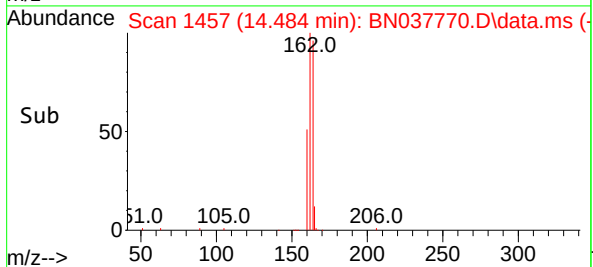
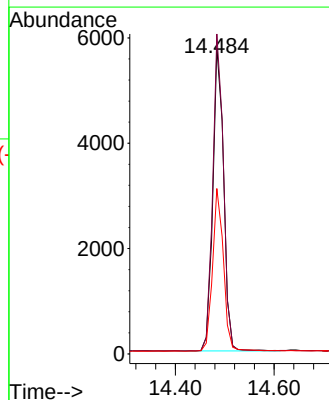
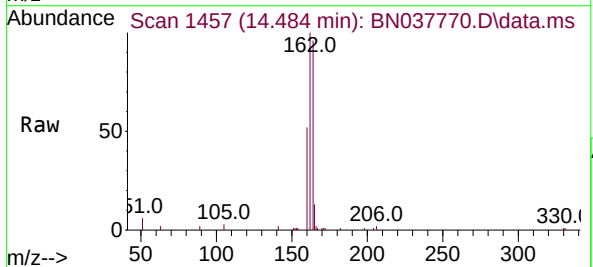
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

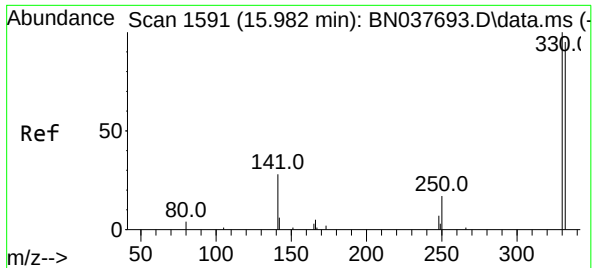
Tgt Ion:152 Resp: 6501
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

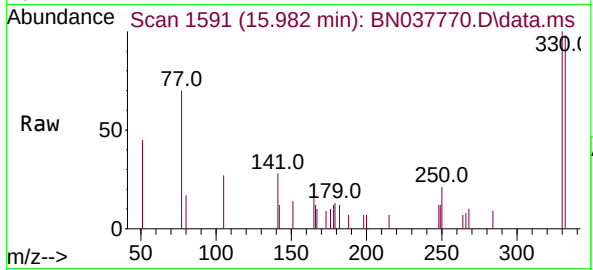
Tgt Ion:164 Resp: 8773
Ion Ratio Lower Upper
164 100
162 104.6 83.1 124.7
160 54.0 44.3 66.5



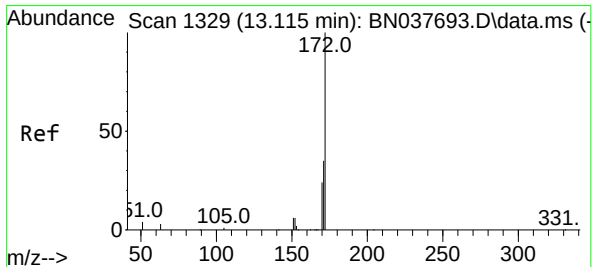
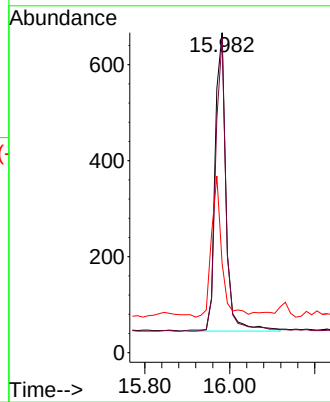
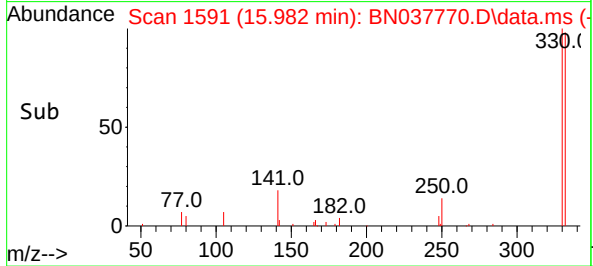


#14
2,4,6-Tribromophenol
Concen: 0.483 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

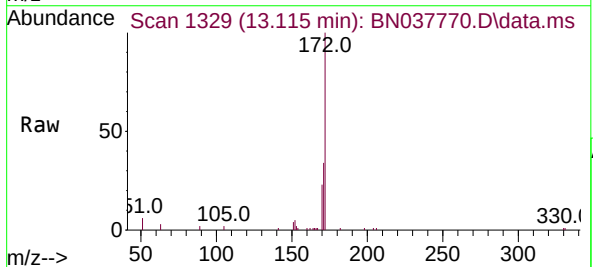
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911



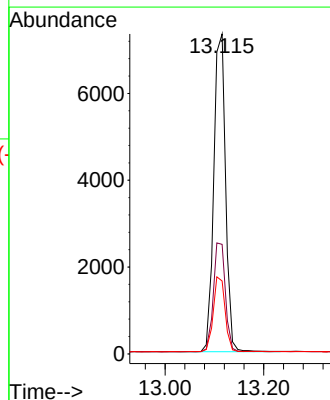
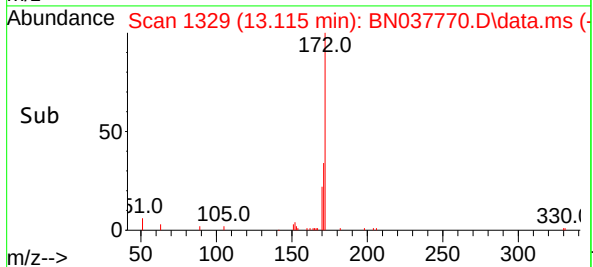
Tgt Ion:330 Resp: 1105
Ion Ratio Lower Upper
330 100
332 93.5 75.3 112.9
141 45.4 35.0 52.4

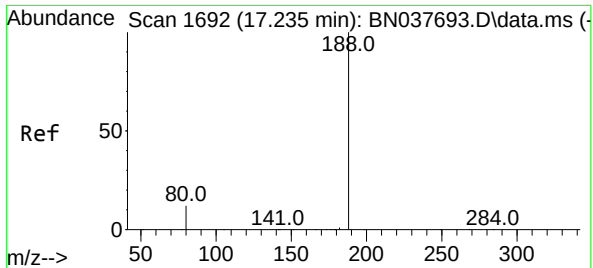


#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23



Tgt Ion:172 Resp: 12202
Ion Ratio Lower Upper
172 100
171 34.2 28.6 43.0
170 22.8 19.8 29.8

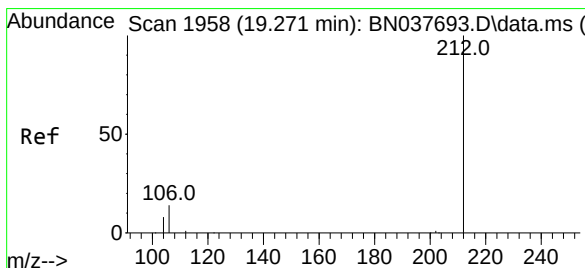
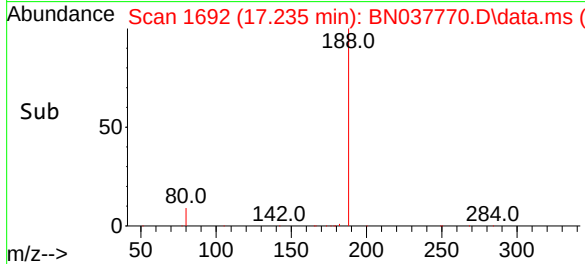
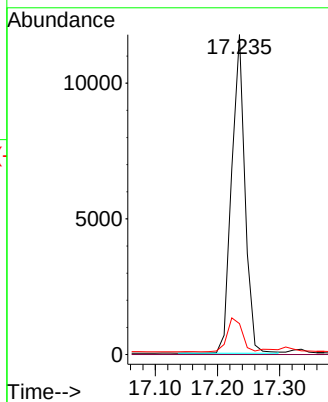
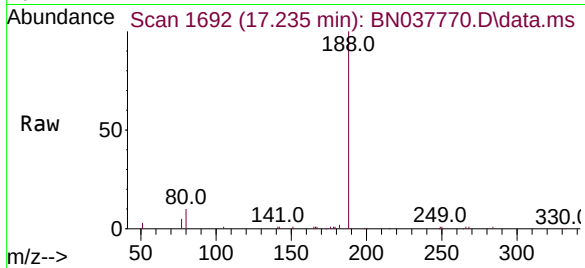




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

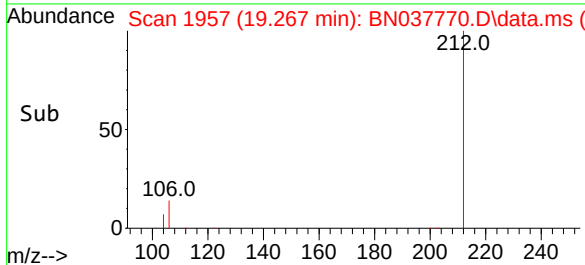
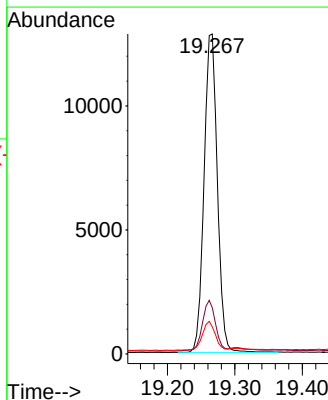
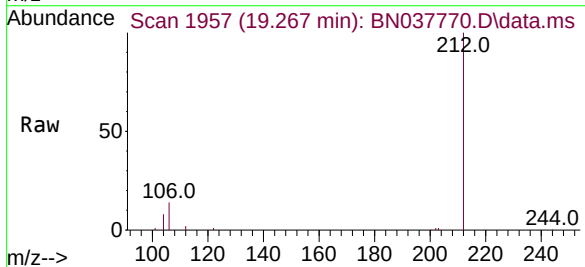
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

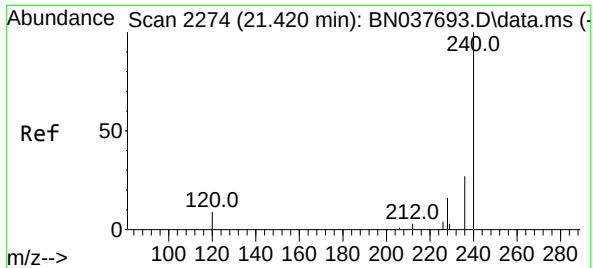
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.267 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	8.9	6.9	10.3

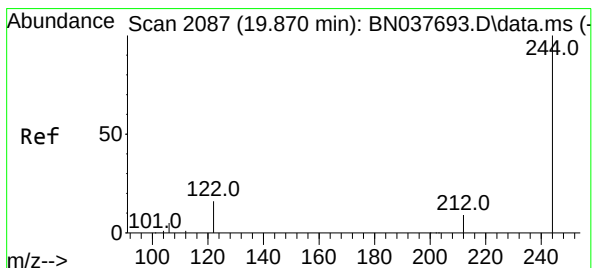
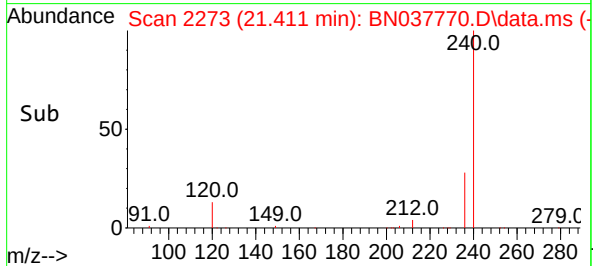
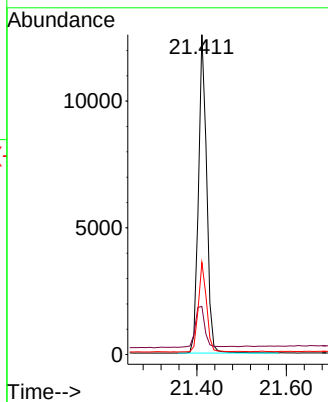
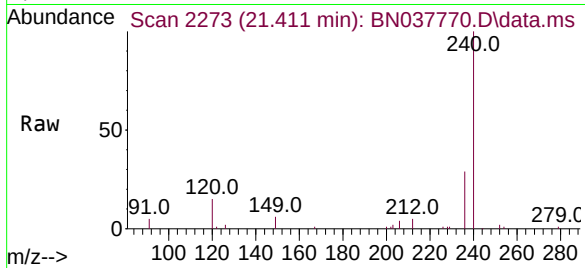




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

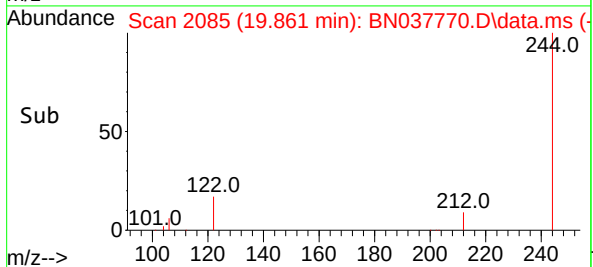
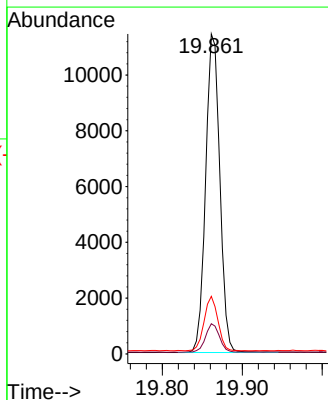
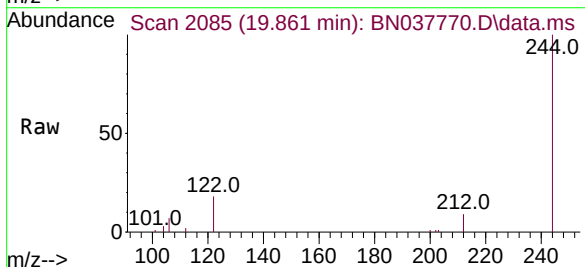
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

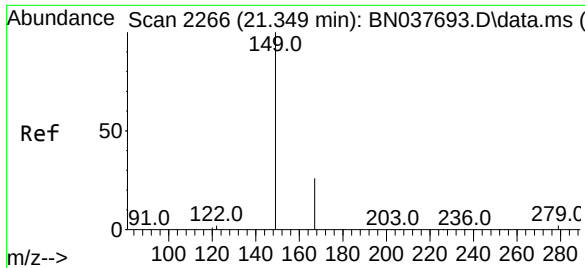
Tgt Ion:240 Resp: 15996
Ion Ratio Lower Upper
240 100
120 15.0 9.2 13.8#
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.433 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:244 Resp: 14051
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 18.0 13.2 19.8

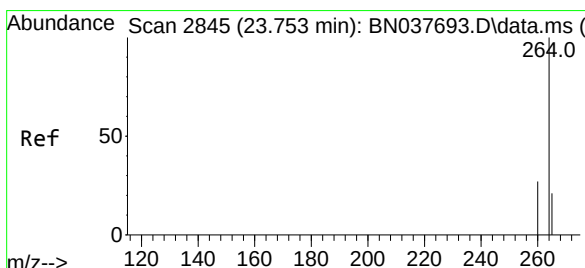
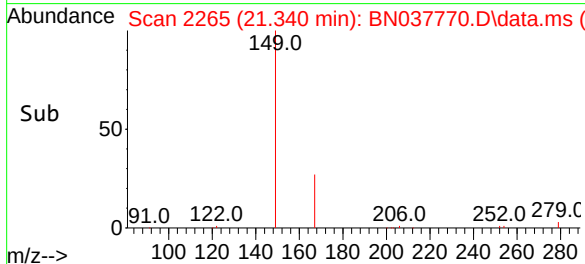
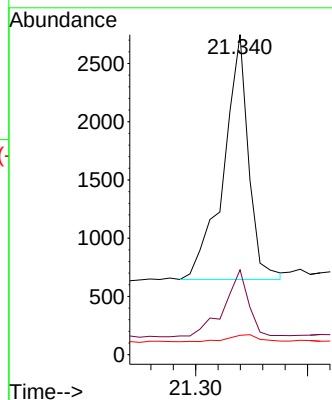
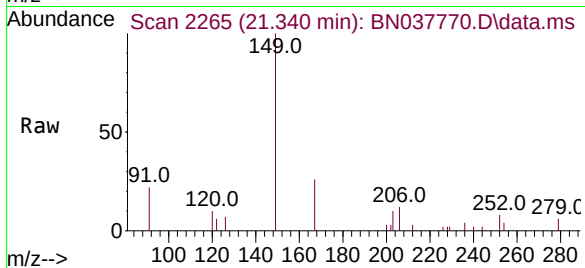




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.197 ng
RT: 21.340 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

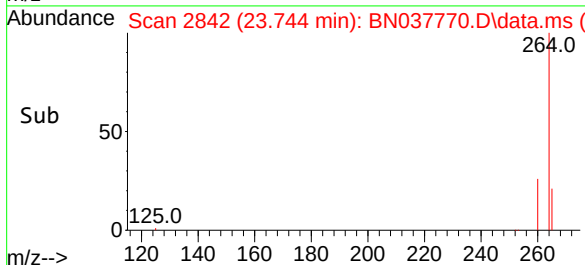
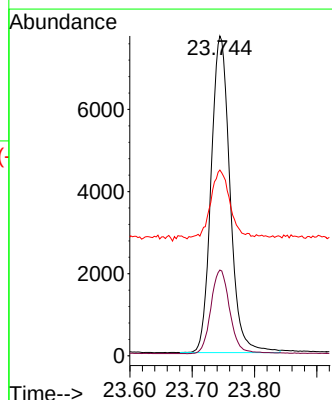
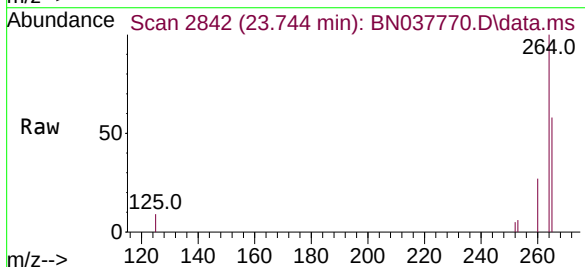
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911

Tgt Ion:149 Resp: 3261
Ion Ratio Lower Upper
149 100
167 25.9 20.8 31.2
279 3.5 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037770.D
Acq: 18 Sep 2025 09:23

Tgt Ion:264 Resp: 16222
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 58.1 39.4 59.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-08DL	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
BN037790.D	5	09/15/25 12:00	09/18/25 23:03	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.20	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6110		7.833			
1146-65-2	Naphthalene-d8	16500		10.637			
15067-26-2	Acenaphthene-d10	7570		14.484			
1517-22-2	Phenanthrene-d10	14900		17.236			
1719-03-5	Chrysene-d12	12900		21.402			
1520-96-3	Perylene-d12	12900		23.739			

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\BN091825\
Data File : BN037790.D
Acq On : 18 Sep 2025 23:03
Operator : RC/JU
Sample : Q3097-08DL 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Quant Time: Sep 19 04:12:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

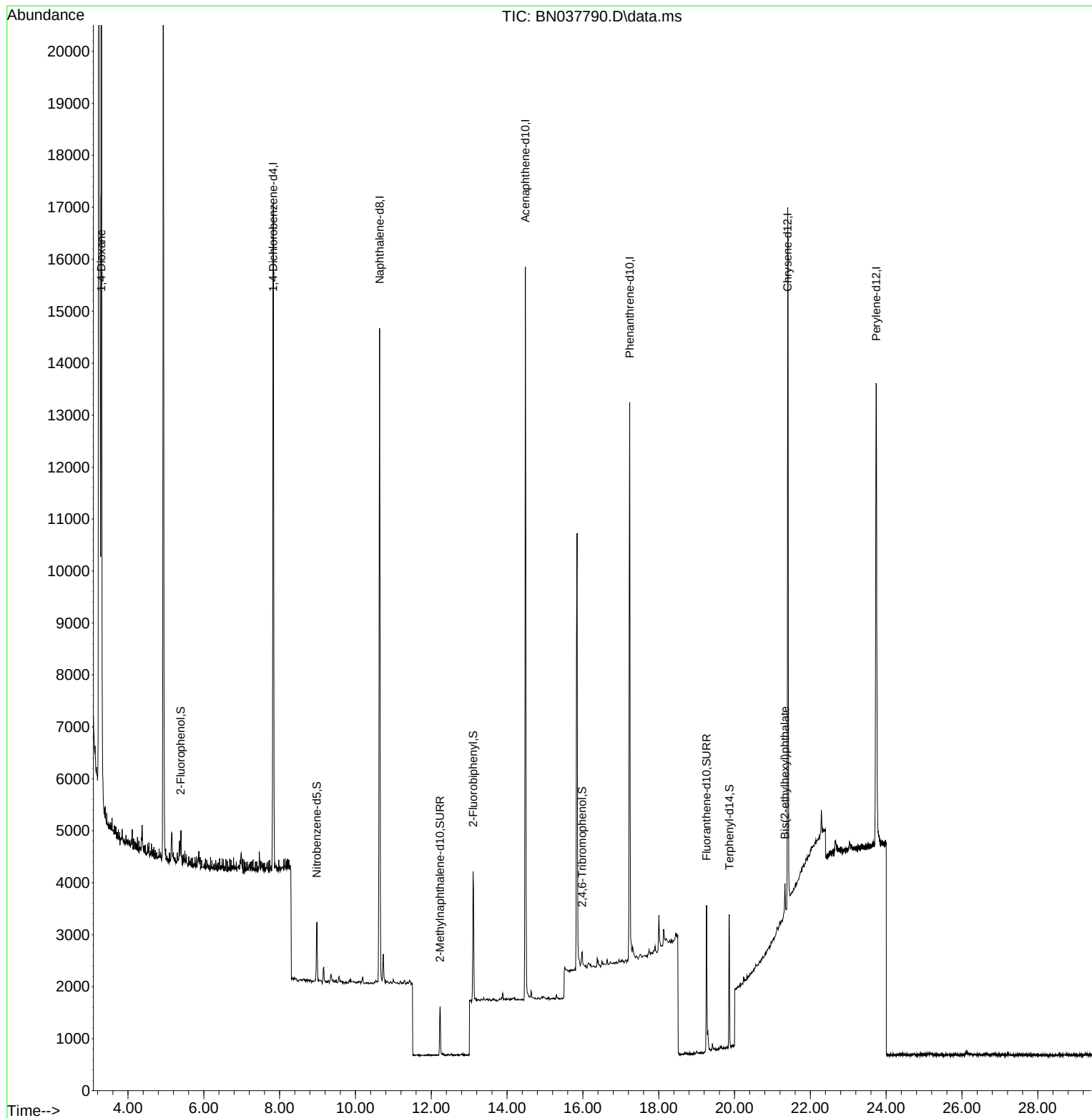
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6110	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16499	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7574	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	14919	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	12875	0.400	ng	#-0.02
35) Perylene-d12	23.739	264	12853	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	411	0.029	ng	0.00
5) Phenol-d6	6.988	99	305	0.017	ng	0.00
8) Nitrobenzene-d5	8.982	82	905	0.075	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	1261	0.058	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	201	0.102	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	2308	0.073	ng	-0.01
27) Fluoranthene-d10	19.262	212	3086	0.082	ng	0.00
31) Terphenyl-d14	19.861	244	2426	0.093	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	10394	1.633	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	764	0.057	ng	98

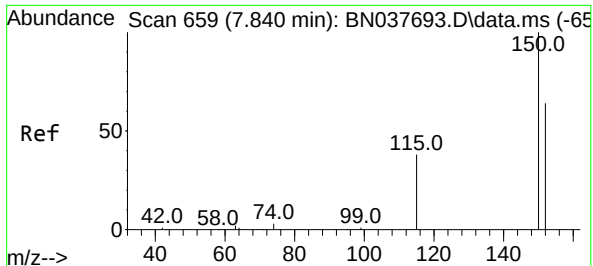
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037790.D
Acq On : 18 Sep 2025 23:03
Operator : RC/JU
Sample : Q3097-08DL 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

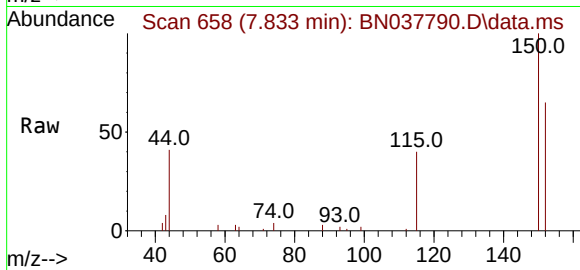
Quant Time: Sep 19 04:12:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



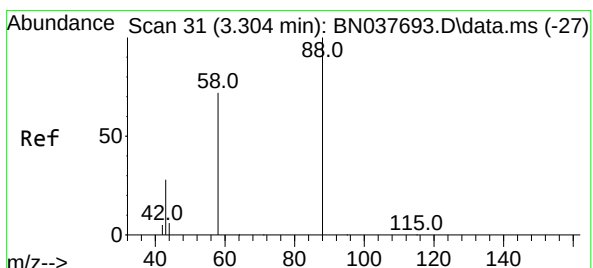
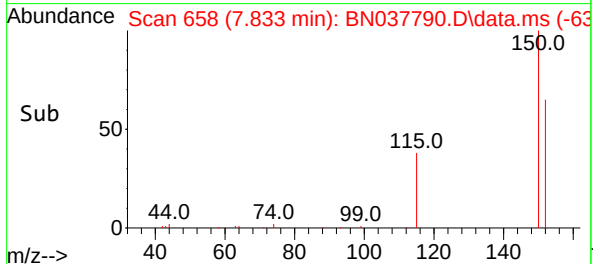
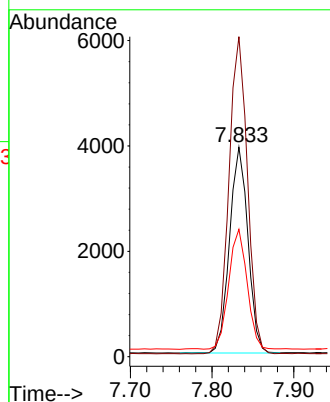


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

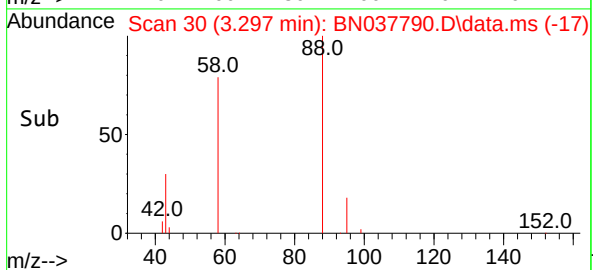
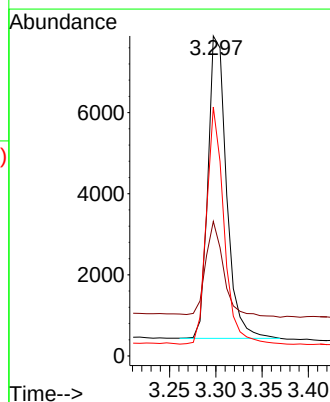
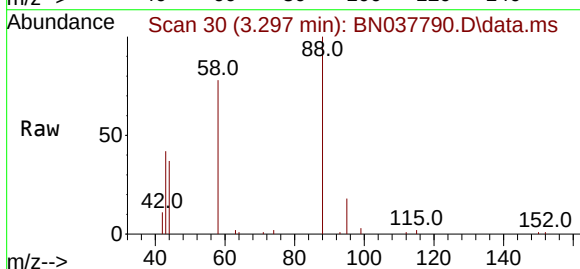


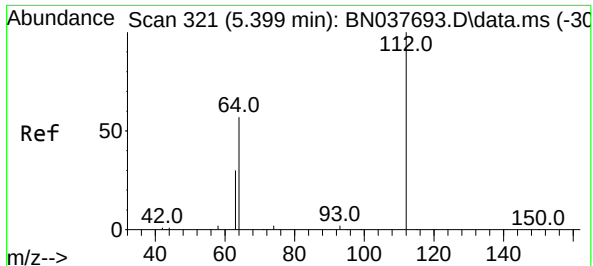
Tgt Ion:152 Resp: 6110
Ion Ratio Lower Upper
152 100
150 152.8 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 1.633 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion: 88 Resp: 10394
Ion Ratio Lower Upper
88 100
43 31.4 26.8 40.2
58 73.8 61.9 92.9

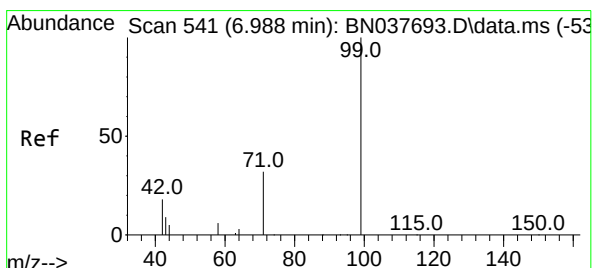
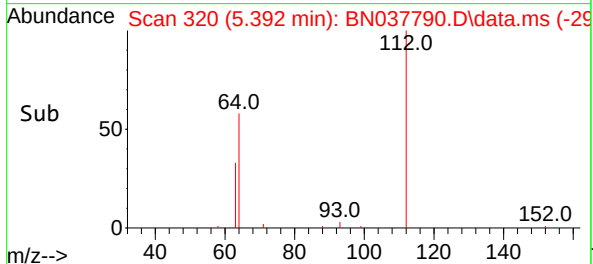
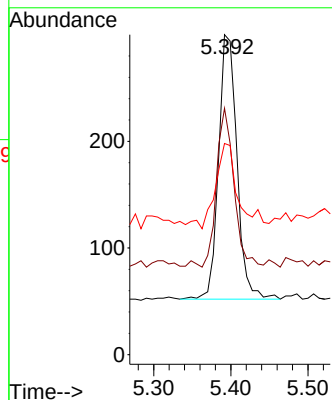
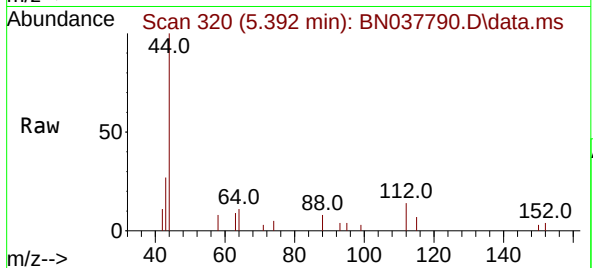




#4
2-Fluorophenol
Concen: 0.029 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

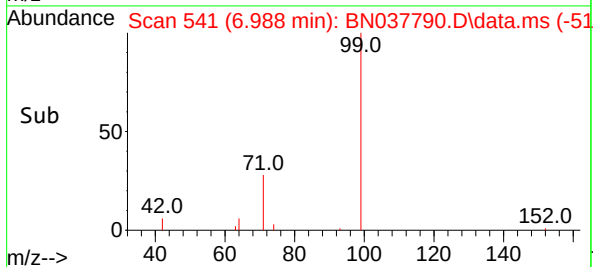
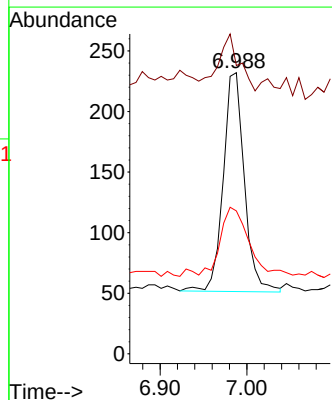
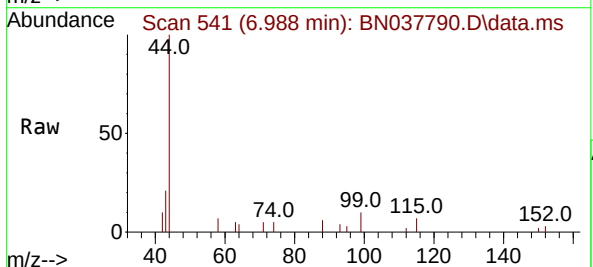
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

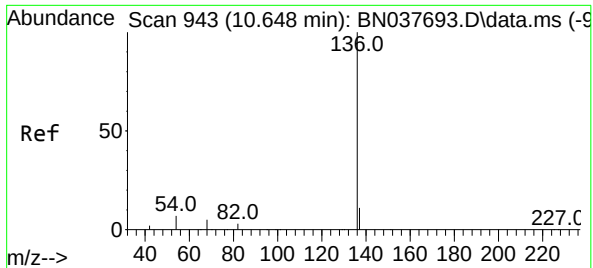
Tgt Ion:112 Resp: 411
Ion Ratio Lower Upper
112 100
64 56.4 44.9 67.3
63 38.7 24.7 37.1#



#5
Phenol-d6
Concen: 0.017 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion: 99 Resp: 305
Ion Ratio Lower Upper
99 100
42 25.6 16.6 24.8#
71 43.9 26.7 40.1#

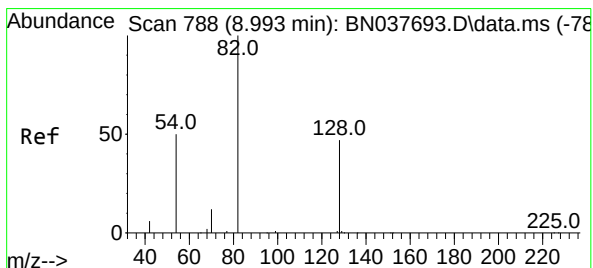
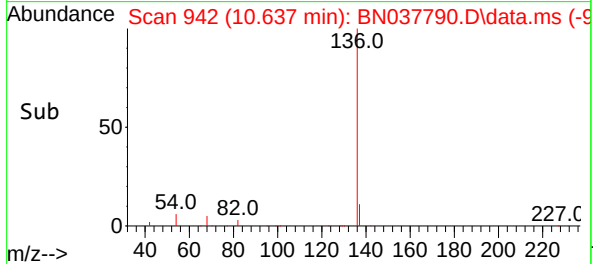
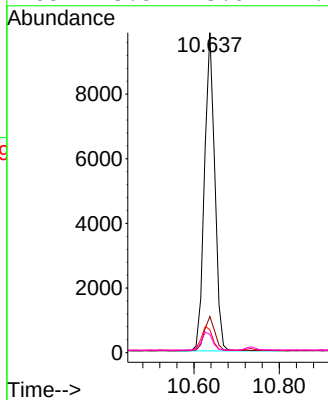
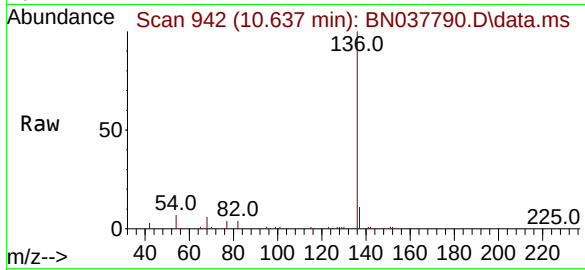




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

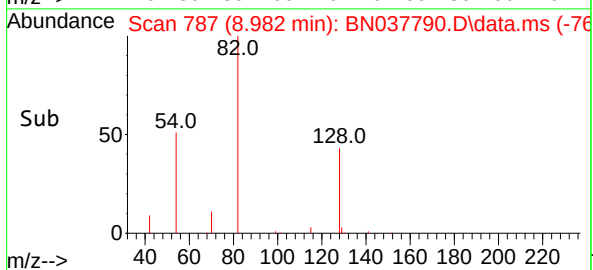
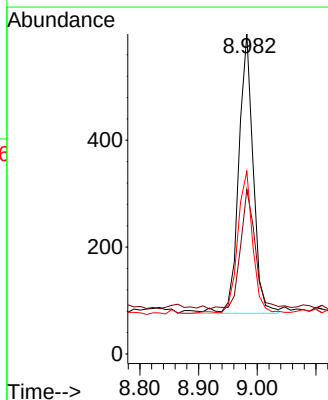
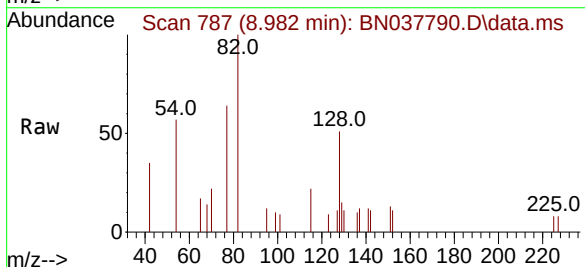
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

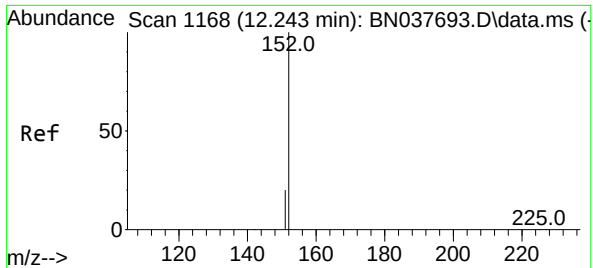
Tgt Ion:	136	Resp:	16499
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.2	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.075 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:	82	Resp:	905
Ion	Ratio	Lower	Upper
82	100		
128	51.4	38.3	57.5
54	57.1	41.4	62.2

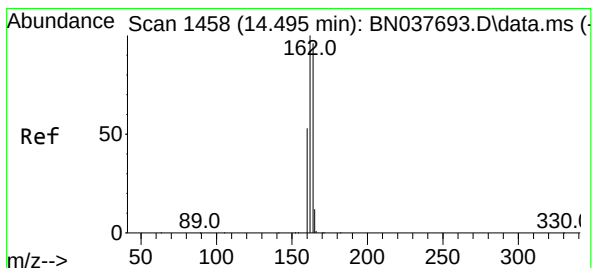
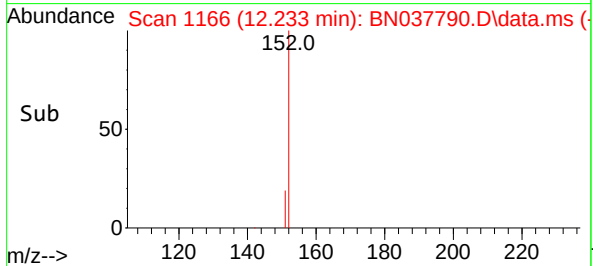
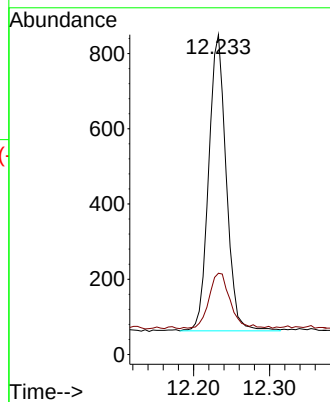
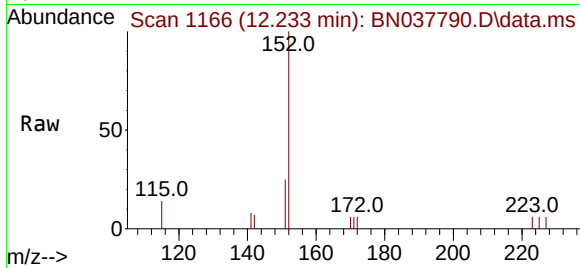




#11
2-Methylnaphthalene-d10
Concen: 0.058 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

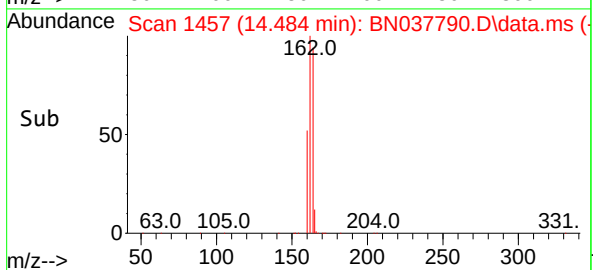
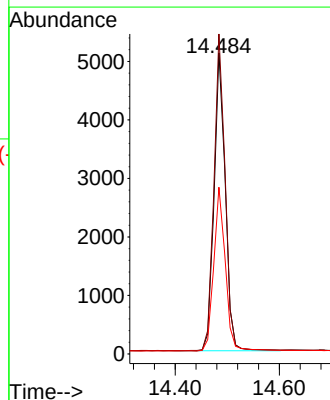
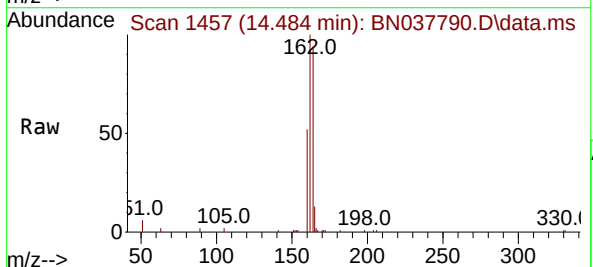
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

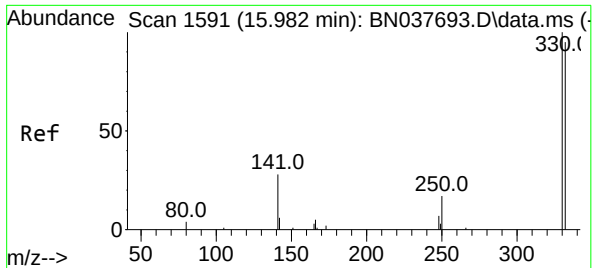
Tgt Ion:152 Resp: 1261
Ion Ratio Lower Upper
152 100
151 22.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:164 Resp: 7574
Ion Ratio Lower Upper
164 100
162 106.3 83.1 124.7
160 55.4 44.3 66.5

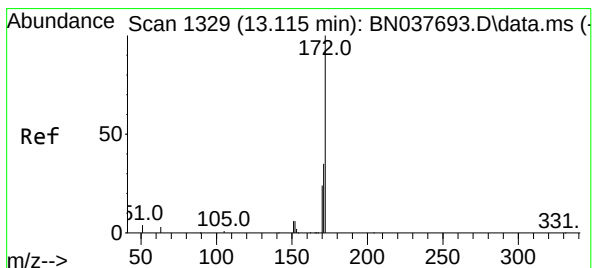
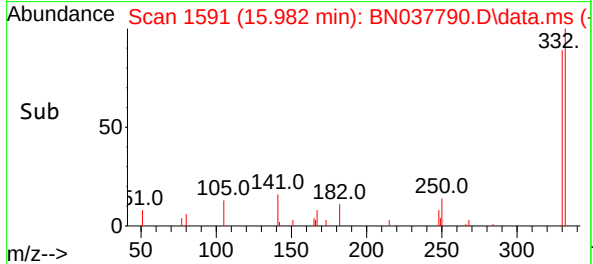
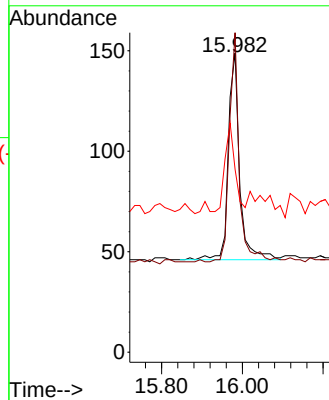
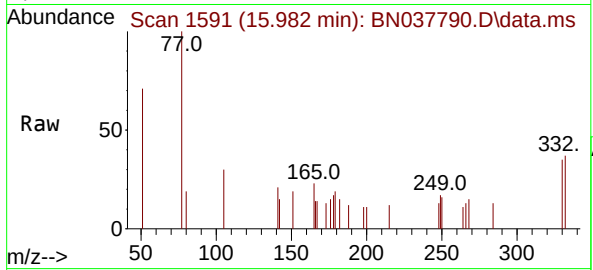




#14
2,4,6-Tribromophenol
Concen: 0.102 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

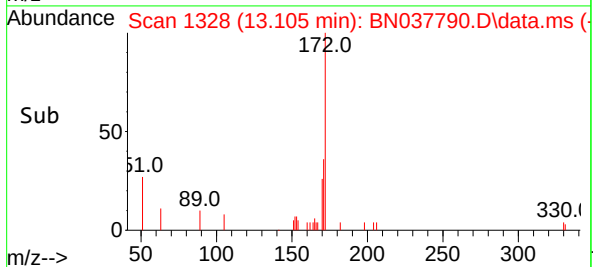
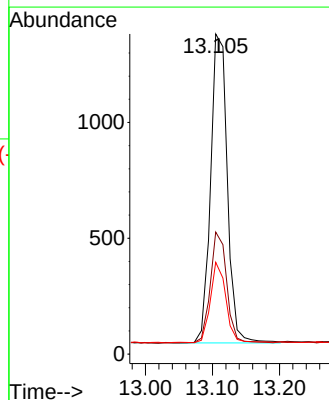
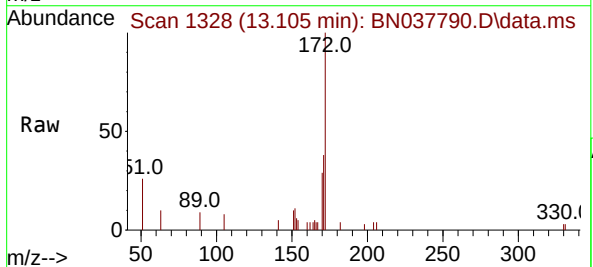
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

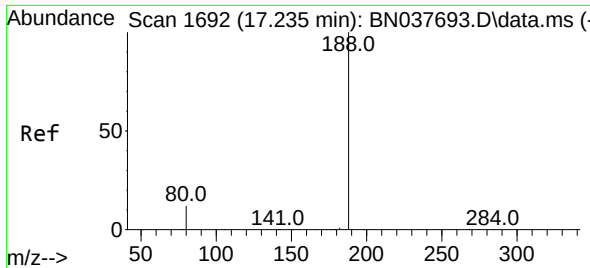
Tgt Ion:	330	Resp:	201
Ion Ratio	Lower	Upper	
330	100		
332	96.5	75.3	112.9
141	41.3	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.073 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:	172	Resp:	2308
Ion Ratio	Lower	Upper	
172	100		
171	38.1	28.6	43.0
170	28.7	19.8	29.8

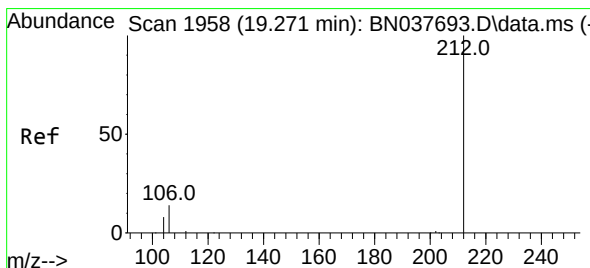
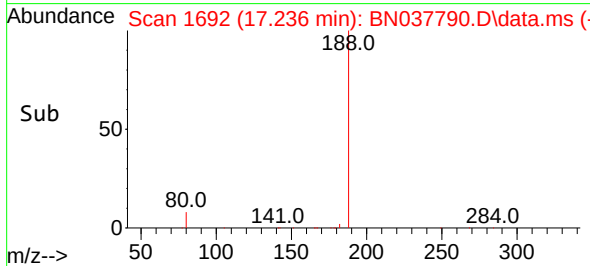
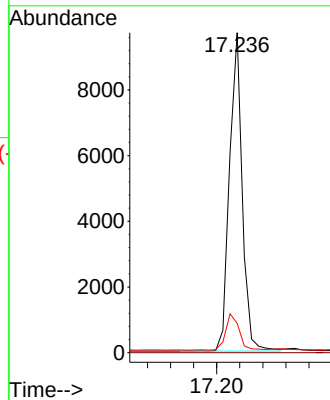
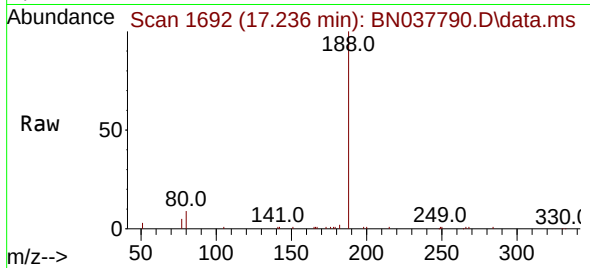




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

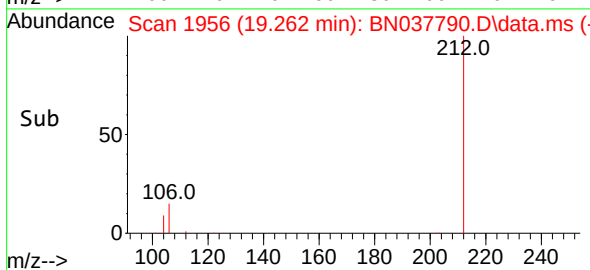
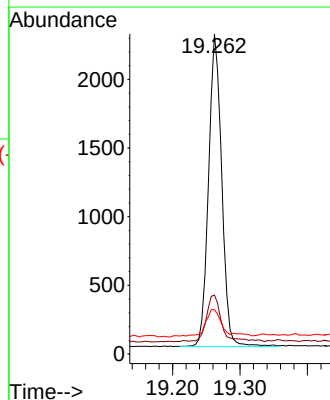
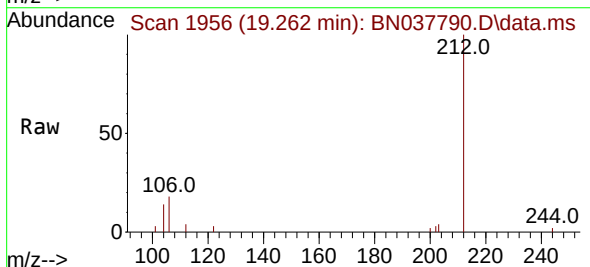
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

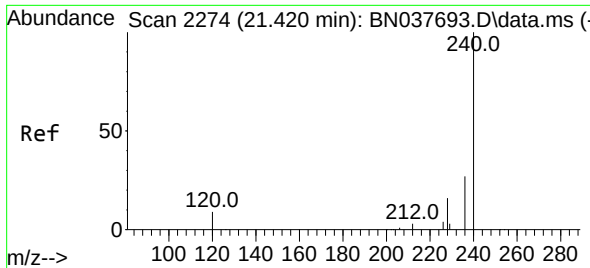
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.082 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.2	18.2
104	10.9	6.9	10.3#

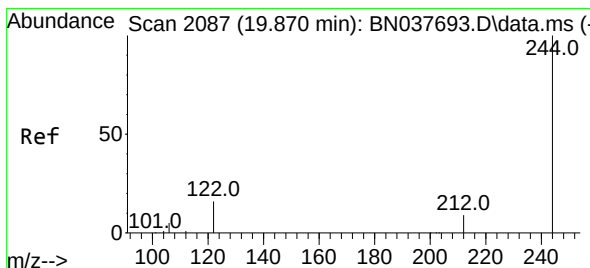
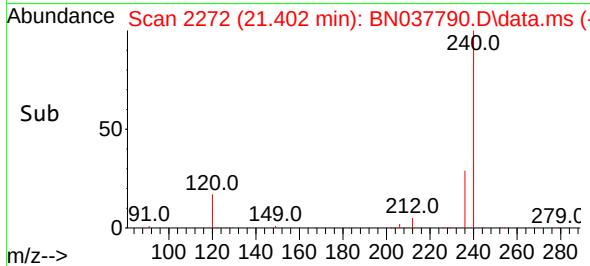
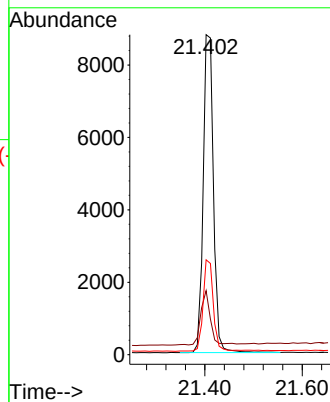
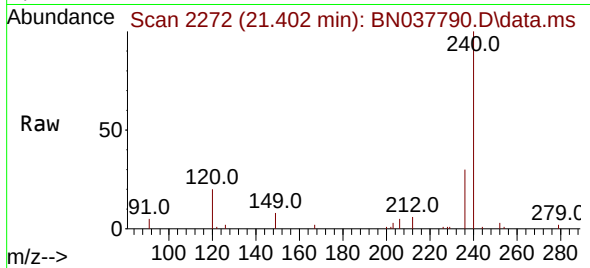




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

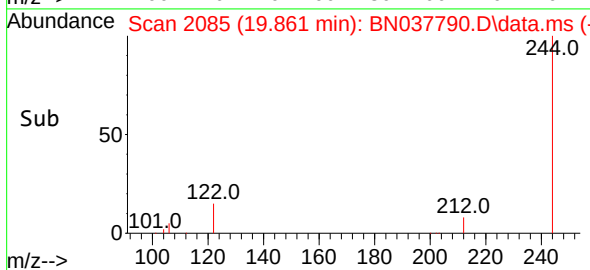
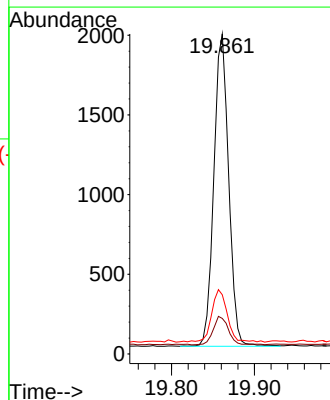
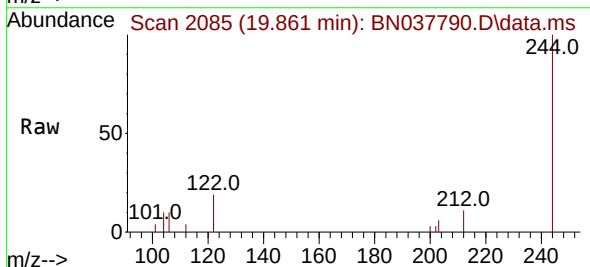
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

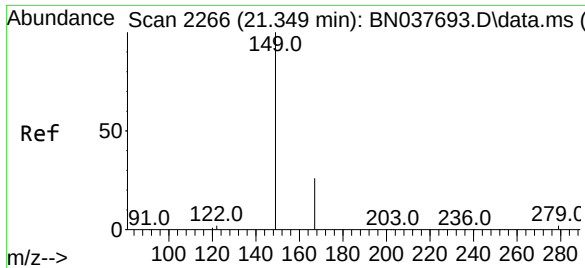
Tgt Ion:240 Resp: 12875
Ion Ratio Lower Upper
240 100
120 20.0 9.2 13.8#
236 29.6 22.6 33.8



#31
Terphenyl-d14
Concen: 0.093 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:244 Resp: 2426
Ion Ratio Lower Upper
244 100
212 11.1 7.5 11.3
122 18.5 13.2 19.8

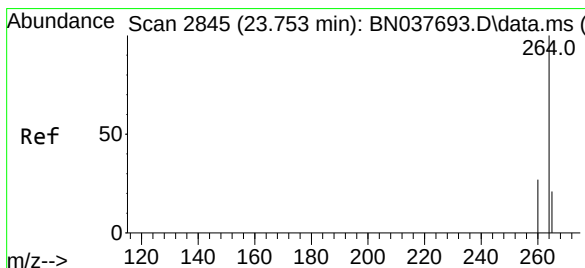
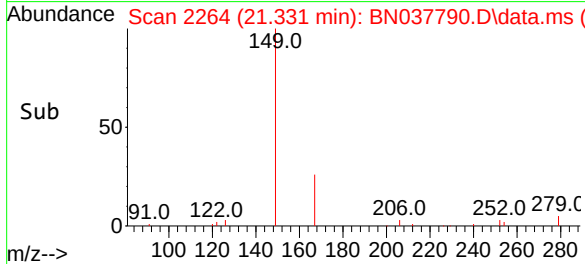
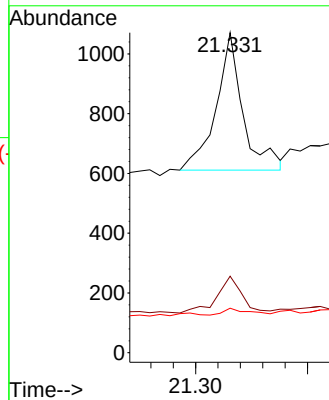
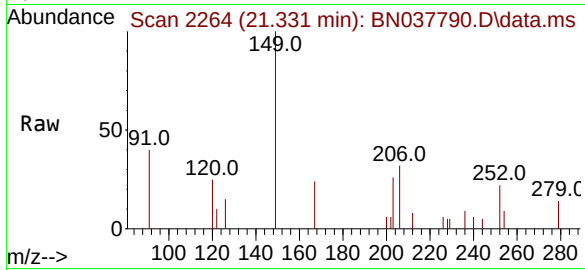




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.057 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

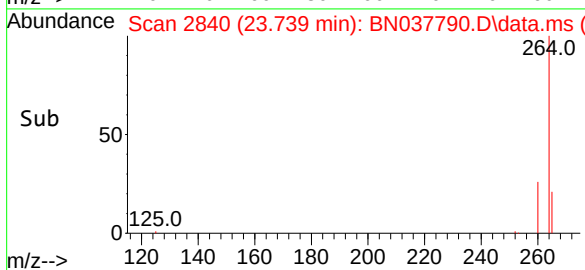
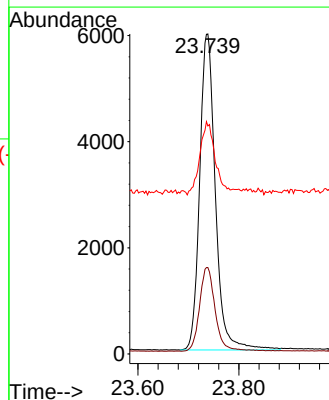
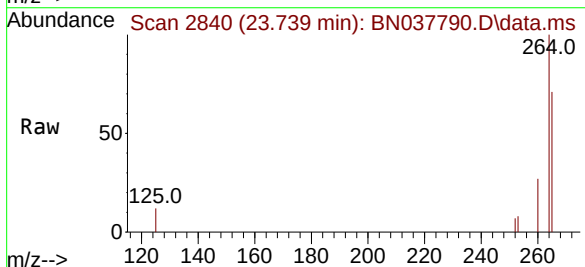
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:149 Resp: 764
Ion Ratio Lower Upper
149 100
167 24.9 20.8 31.2
279 4.6 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037790.D
Acq: 18 Sep 2025 23:03

Tgt Ion:264 Resp: 12853
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 71.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-09	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
BN037778.D	1	09/15/25 12:00	09/18/25 15:47	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.80		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6090	7.833				
1146-65-2	Naphthalene-d8	16100	10.637				
15067-26-2	Acenaphthene-d10	7260	14.484				
1517-22-2	Phenanthrene-d10	13900	17.235				
1719-03-5	Chrysene-d12	12100	21.411				
1520-96-3	Perylene-d12	11400	23.747				

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\BN091825\
Data File : BN037778.D
Acq On : 18 Sep 2025 15:47
Operator : RC/JU
Sample : Q3097-09
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Quant Time: Sep 18 16:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

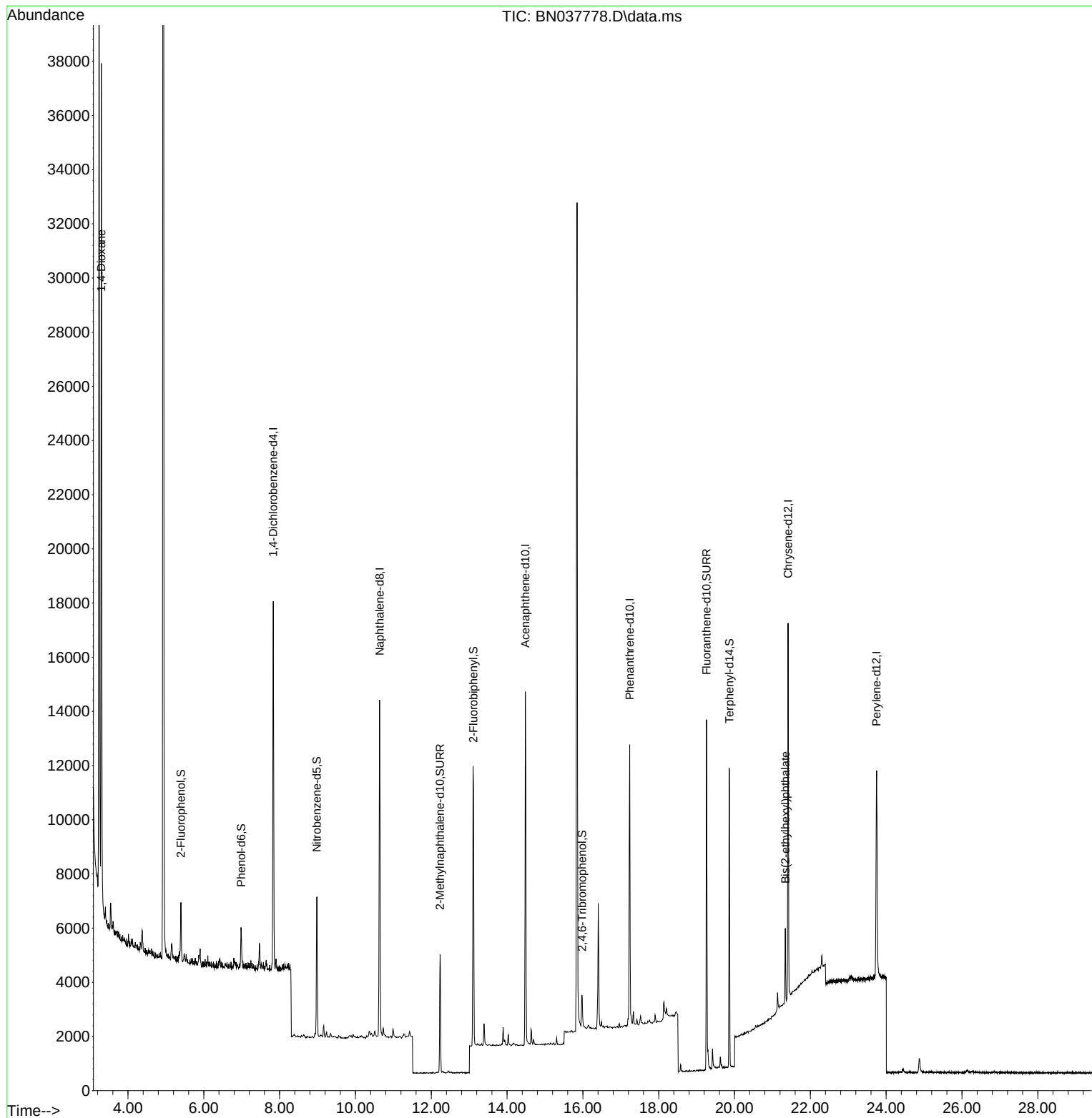
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6091	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16121	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7264	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13940	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	12095	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11352	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1798	0.129	ng	0.00
5) Phenol-d6	6.988	99	1299	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	4001	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	5837	0.273	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	832	0.439	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	9398	0.309	ng	0.00
27) Fluoranthene-d10	19.262	212	13906	0.397	ng	0.00
31) Terphenyl-d14	19.861	244	10262	0.418	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	17609	2.776	ng	95
34) Bis(2-ethylhexyl)phtha...	21.339	149	2423	0.194	ng	99

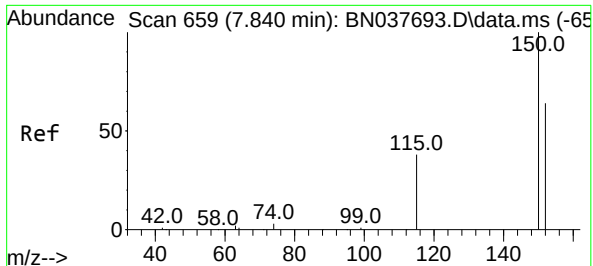
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037778.D
Acq On : 18 Sep 2025 15:47
Operator : RC/JU
Sample : Q3097-09
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

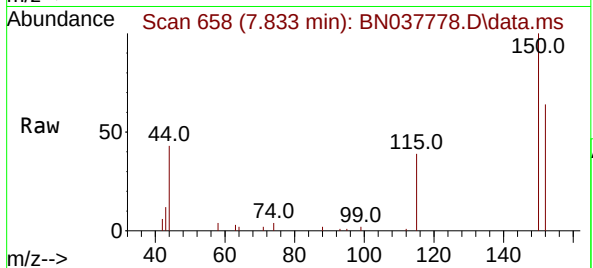
Quant Time: Sep 18 16:12:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



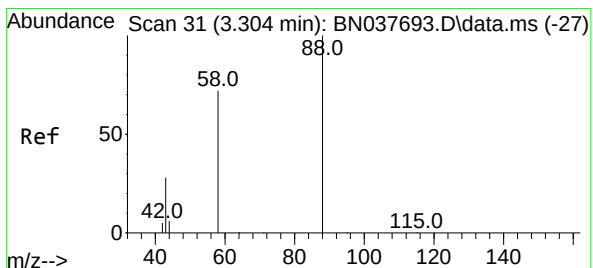
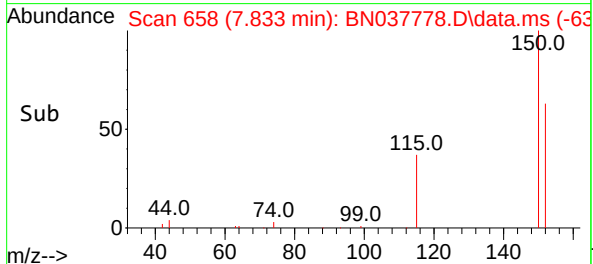
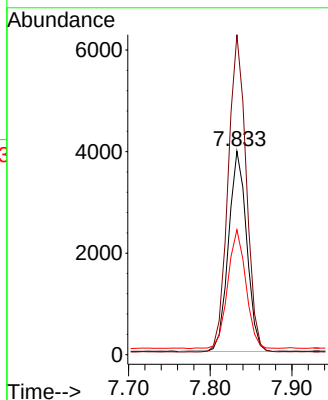


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

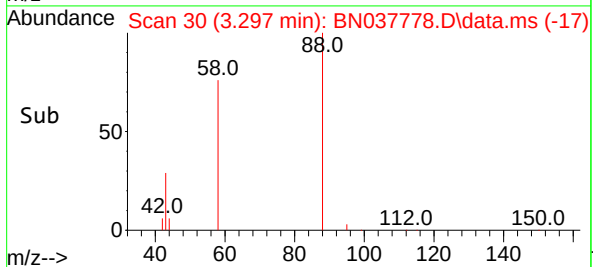
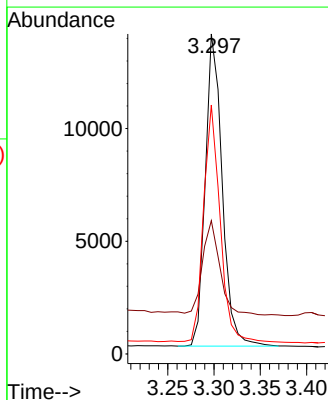
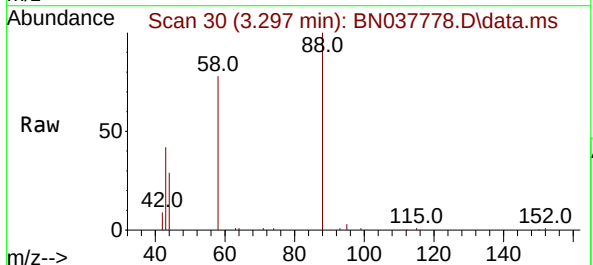


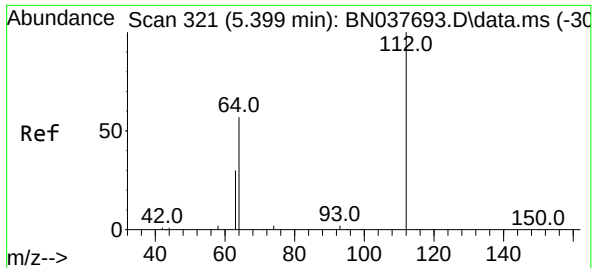
Tgt Ion: 152 Resp: 6091
Ion Ratio Lower Upper
152 100
150 157.2 124.5 186.7
115 61.4 49.2 73.8



#2
1,4-Dioxane
Concen: 2.776 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion: 88 Resp: 17609
Ion Ratio Lower Upper
88 100
43 30.8 26.8 40.2
58 73.6 61.9 92.9

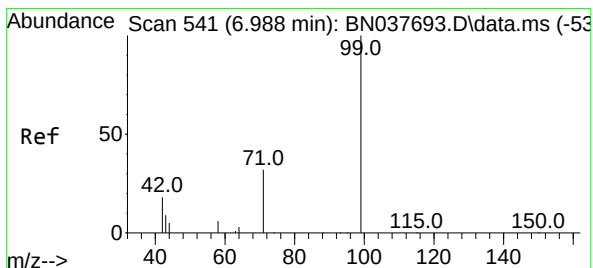
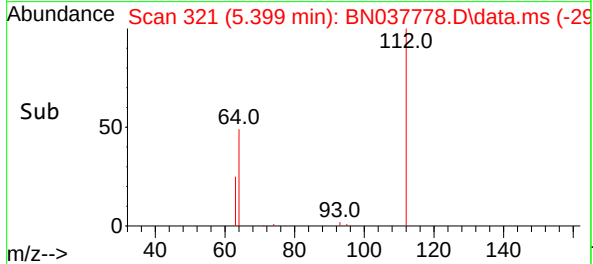
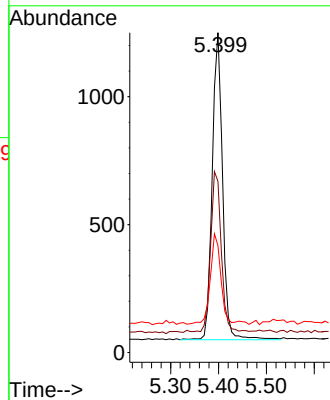
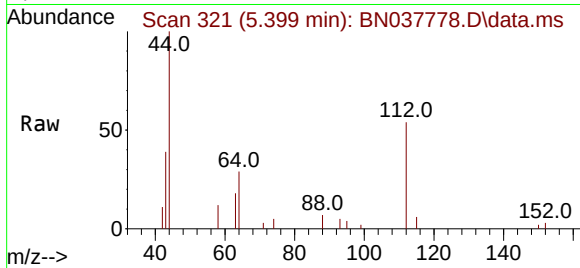




#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

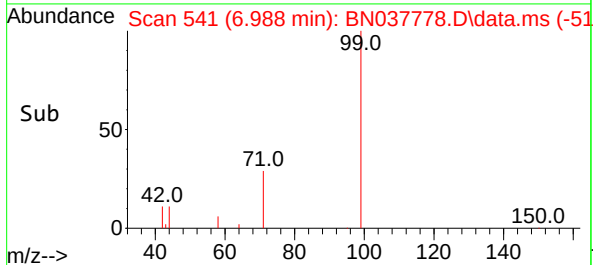
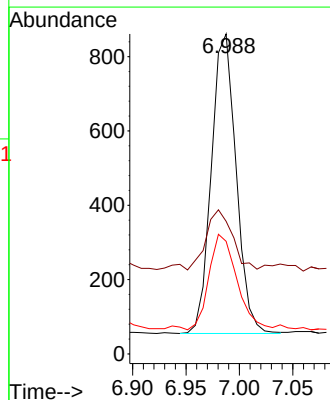
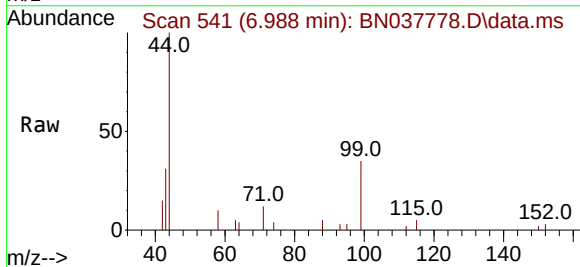
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

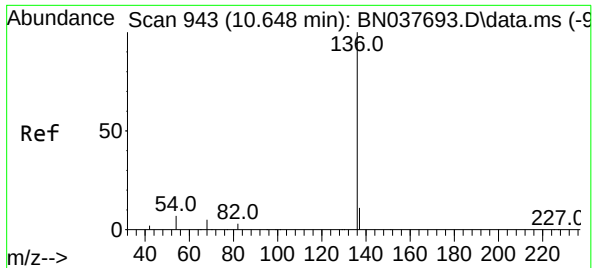
Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.9	44.9	67.3
63	29.9	24.7	37.1



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.2	16.6	24.8
71	37.8	26.7	40.1

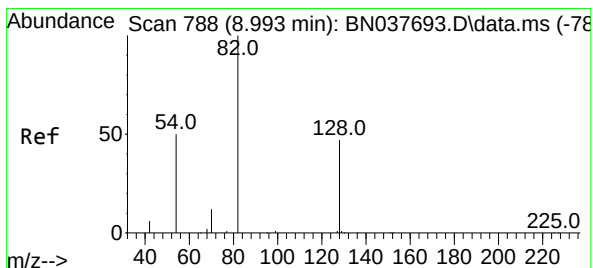
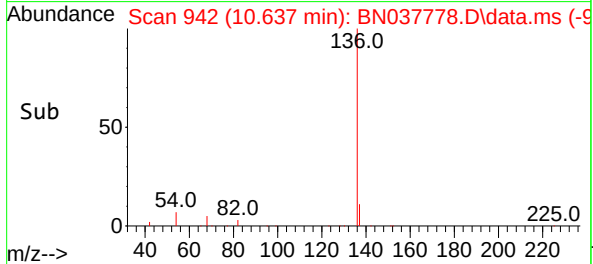
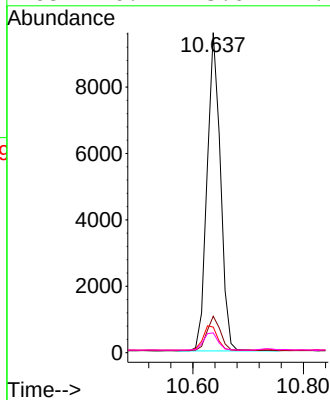
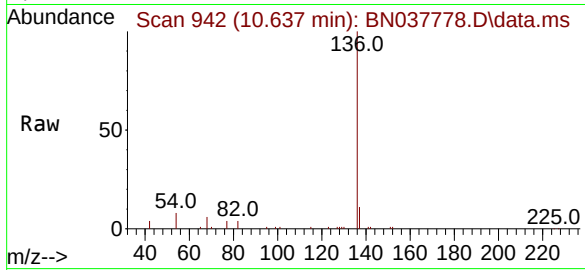




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

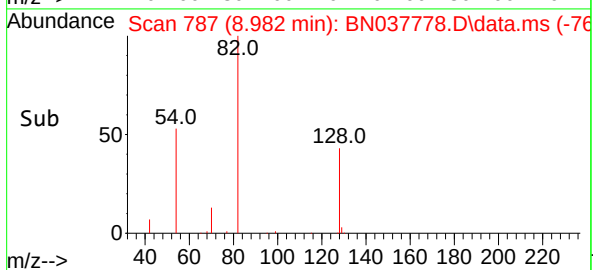
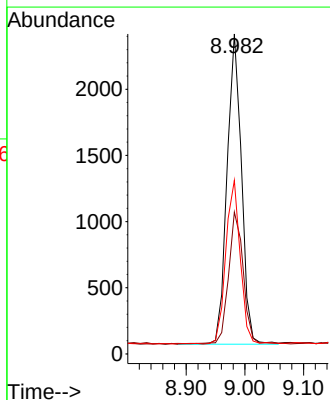
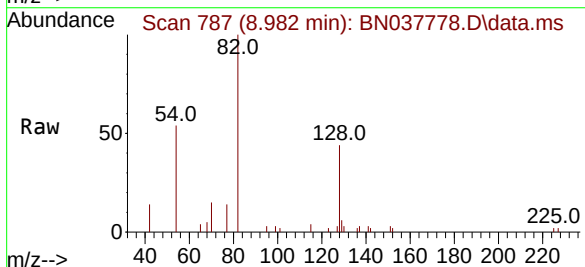
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

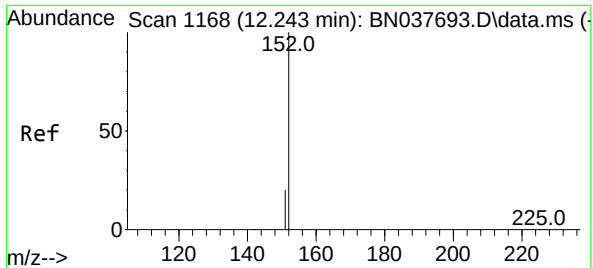
Tgt Ion:	136	Resp:	16121
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.0	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:	82	Resp:	4001
Ion	Ratio	Lower	Upper
82	100		
128	44.3	38.3	57.5
54	54.3	41.4	62.2

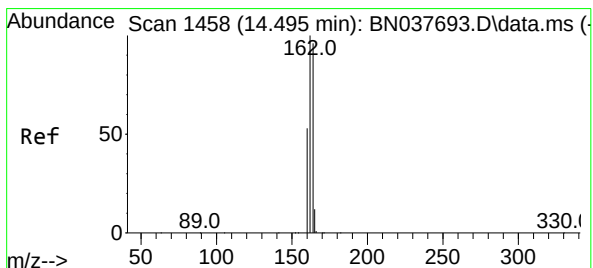
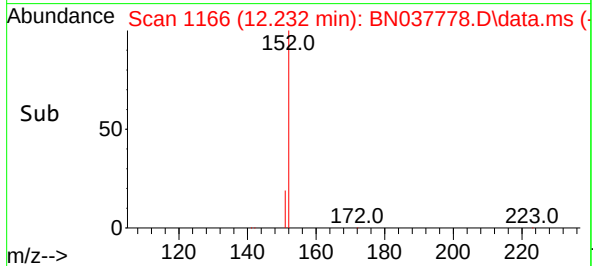
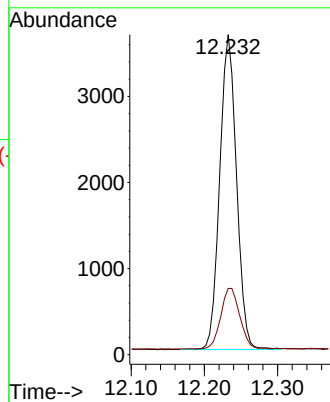
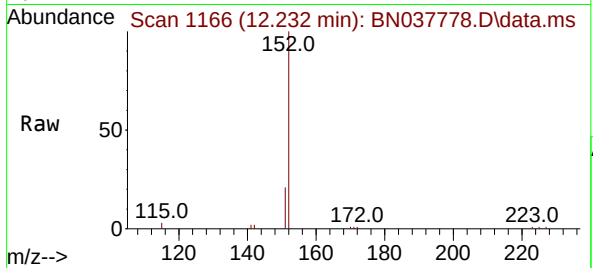




#11
2-Methylnaphthalene-d10
Concen: 0.273 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

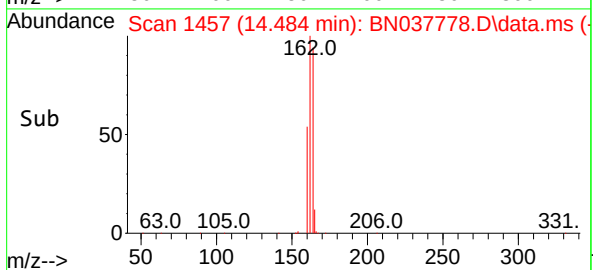
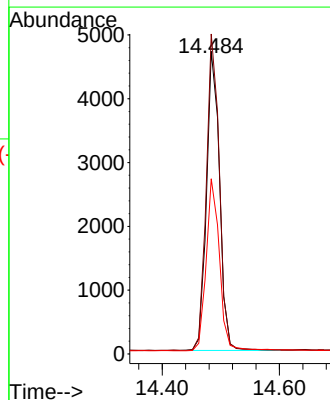
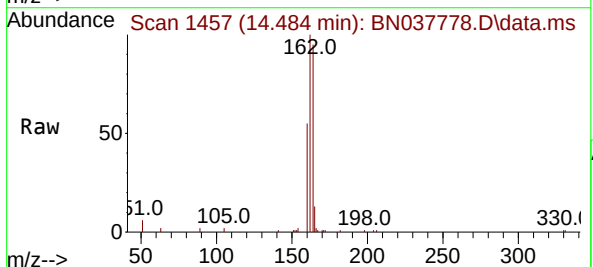
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

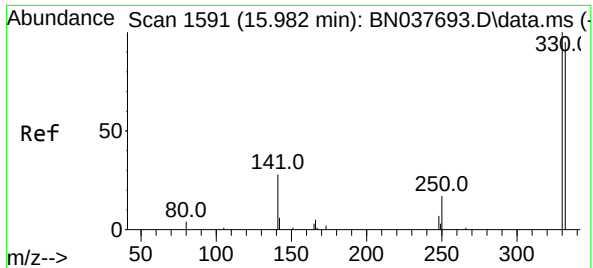
Tgt Ion:152 Resp: 5837
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:164 Resp: 7264
Ion Ratio Lower Upper
164 100
162 105.8 83.1 124.7
160 57.9 44.3 66.5

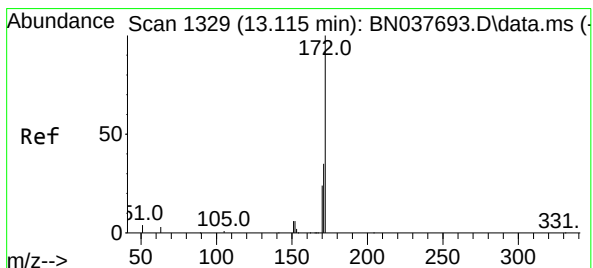
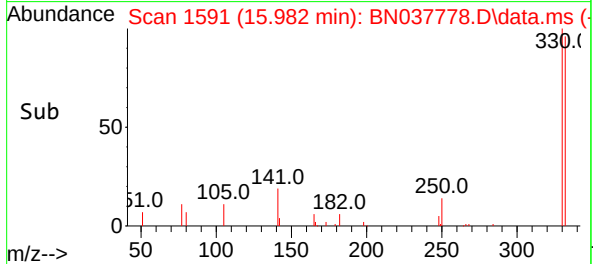
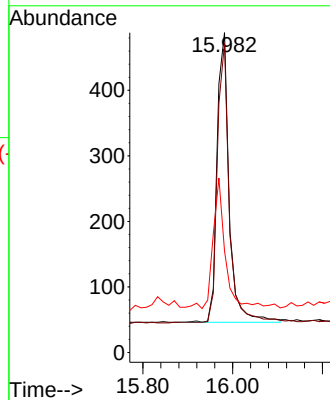
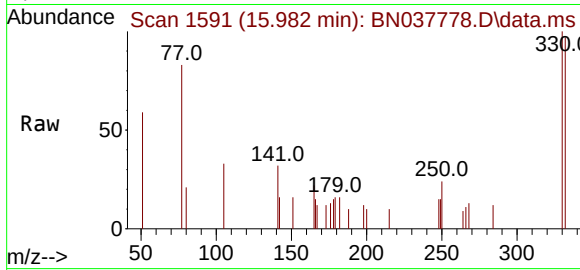




#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

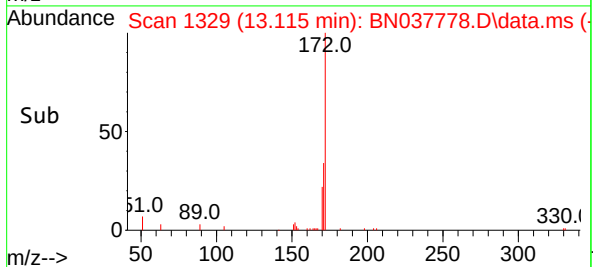
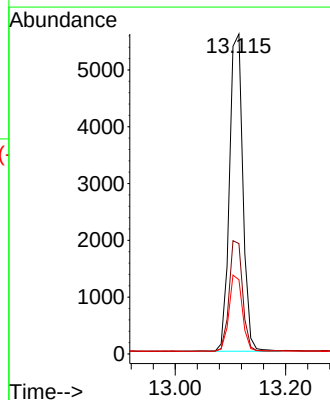
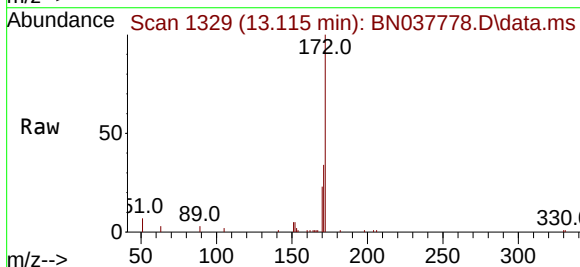
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

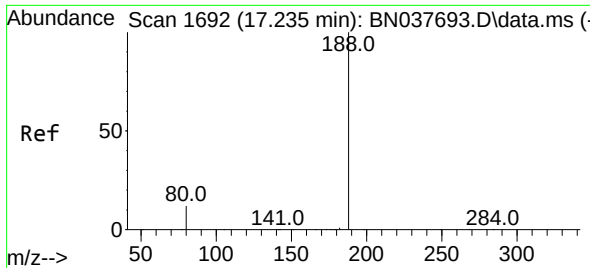
Tgt Ion	330	Resp	832
Ion Ratio	Lower	Upper	
330	100		
332	94.2	75.3	112.9
141	44.8	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion	172	Resp	9398
Ion Ratio	Lower	Upper	
172	100		
171	34.5	28.6	43.0
170	23.2	19.8	29.8

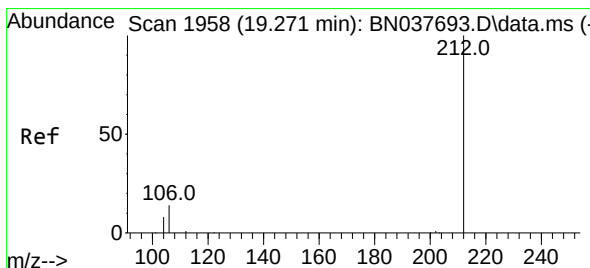
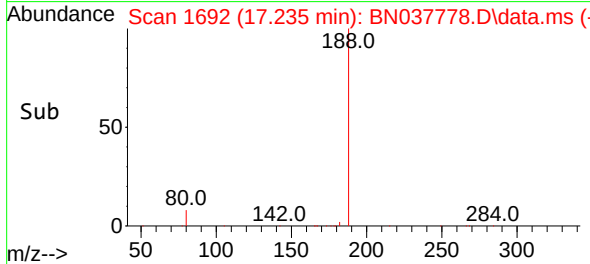
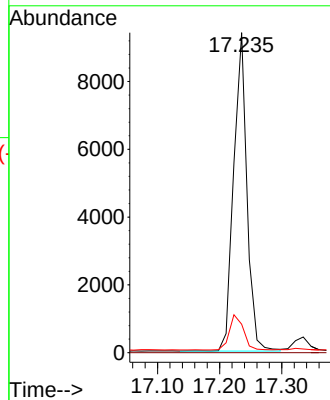
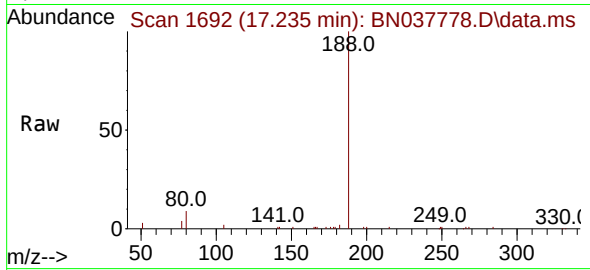




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

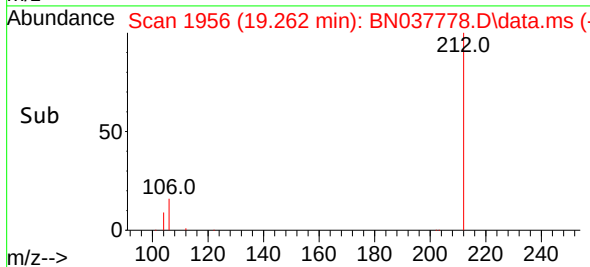
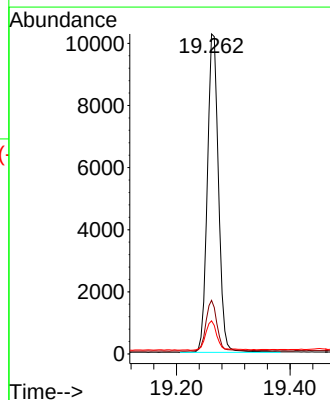
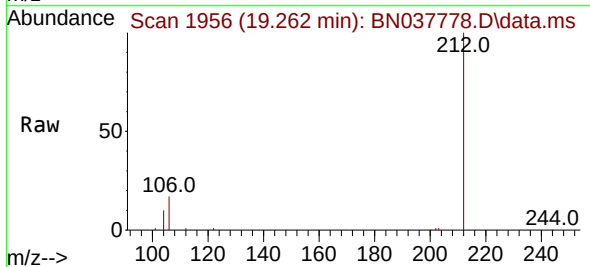
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

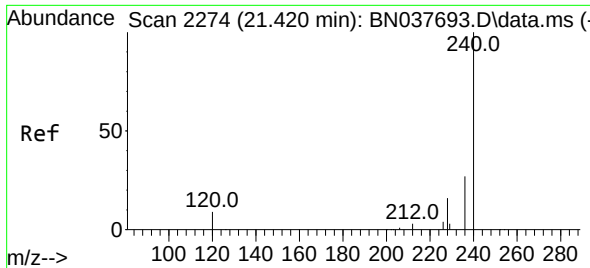
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	9.1	6.9	10.3

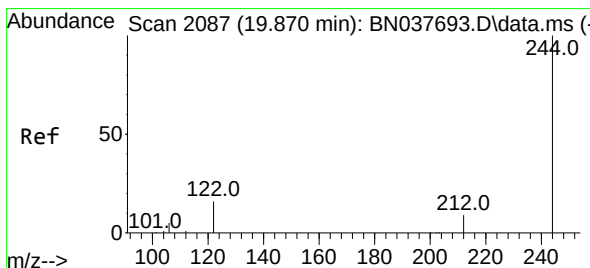
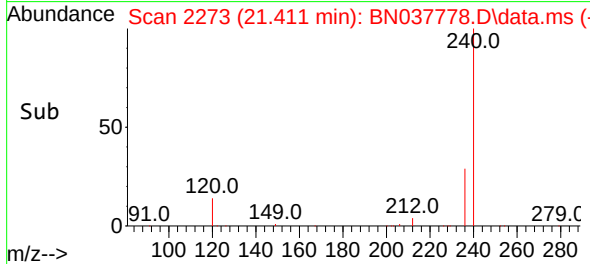
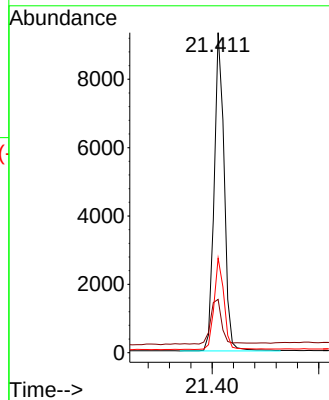
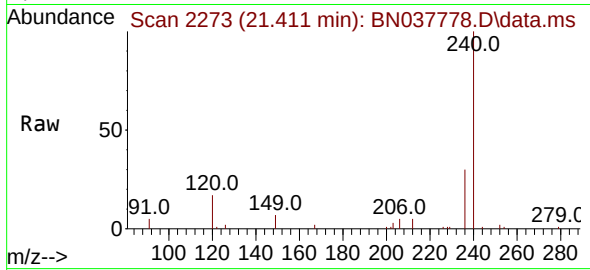




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

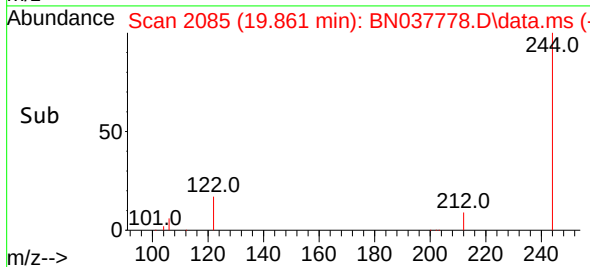
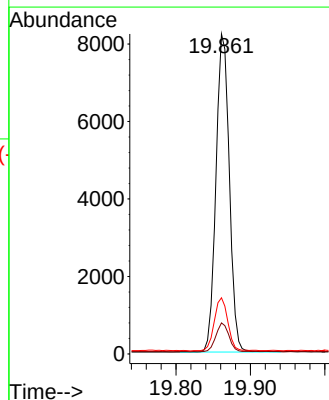
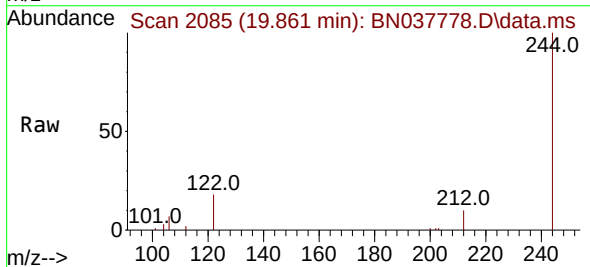
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

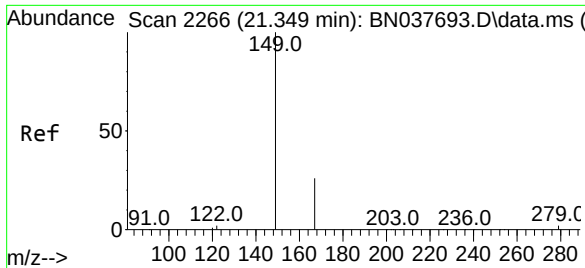
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.7	9.2	13.8#
236	29.5	22.6	33.8



#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	17.6	13.2	19.8

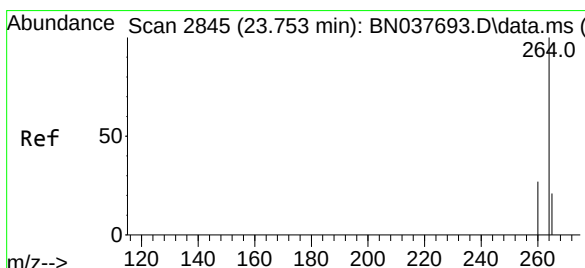
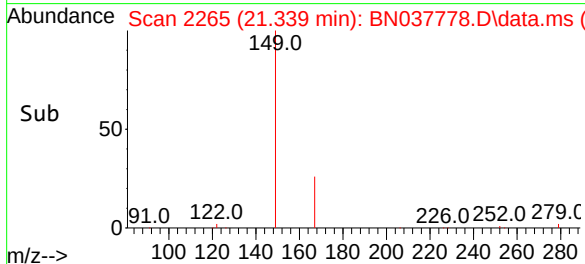
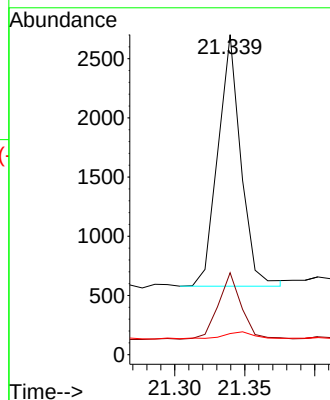
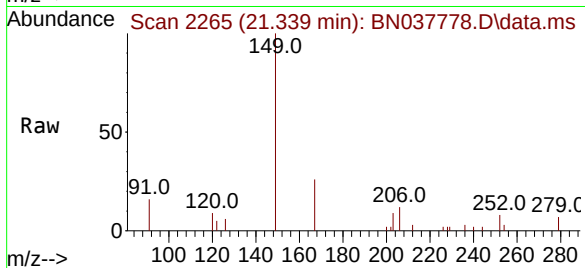




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.194 ng
RT: 21.339 min Scan# 2133
Delta R.T. -0.009 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

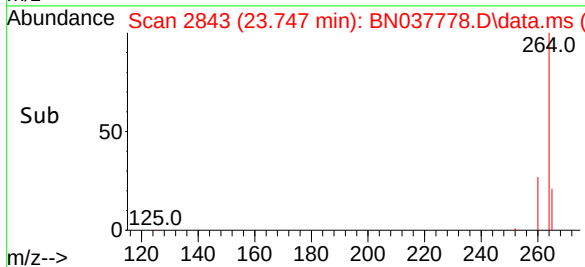
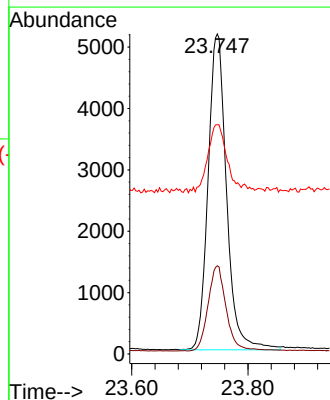
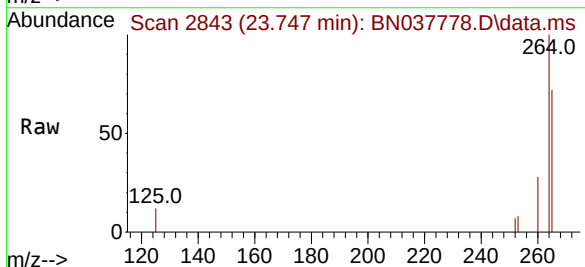
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250911

Tgt Ion:149 Resp: 2423
Ion Ratio Lower Upper
149 100
167 26.3 20.8 31.2
279 4.0 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037778.D
Acq: 18 Sep 2025 15:47

Tgt Ion:264 Resp: 11352
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 71.7 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-10	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
BN037801.D	1	09/16/25 09:39	09/19/25 06:25	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.14	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6810	7.833				
1146-65-2	Naphthalene-d8	16600	10.637				
15067-26-2	Acenaphthene-d10	7360	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	10500	21.411				
1520-96-3	Perylene-d12	10100	23.739				

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\BN091825\
Data File : BN037801.D
Acq On : 19 Sep 2025 06:25
Operator : RC/JU
Sample : Q3097-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Quant Time: Sep 19 07:43:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

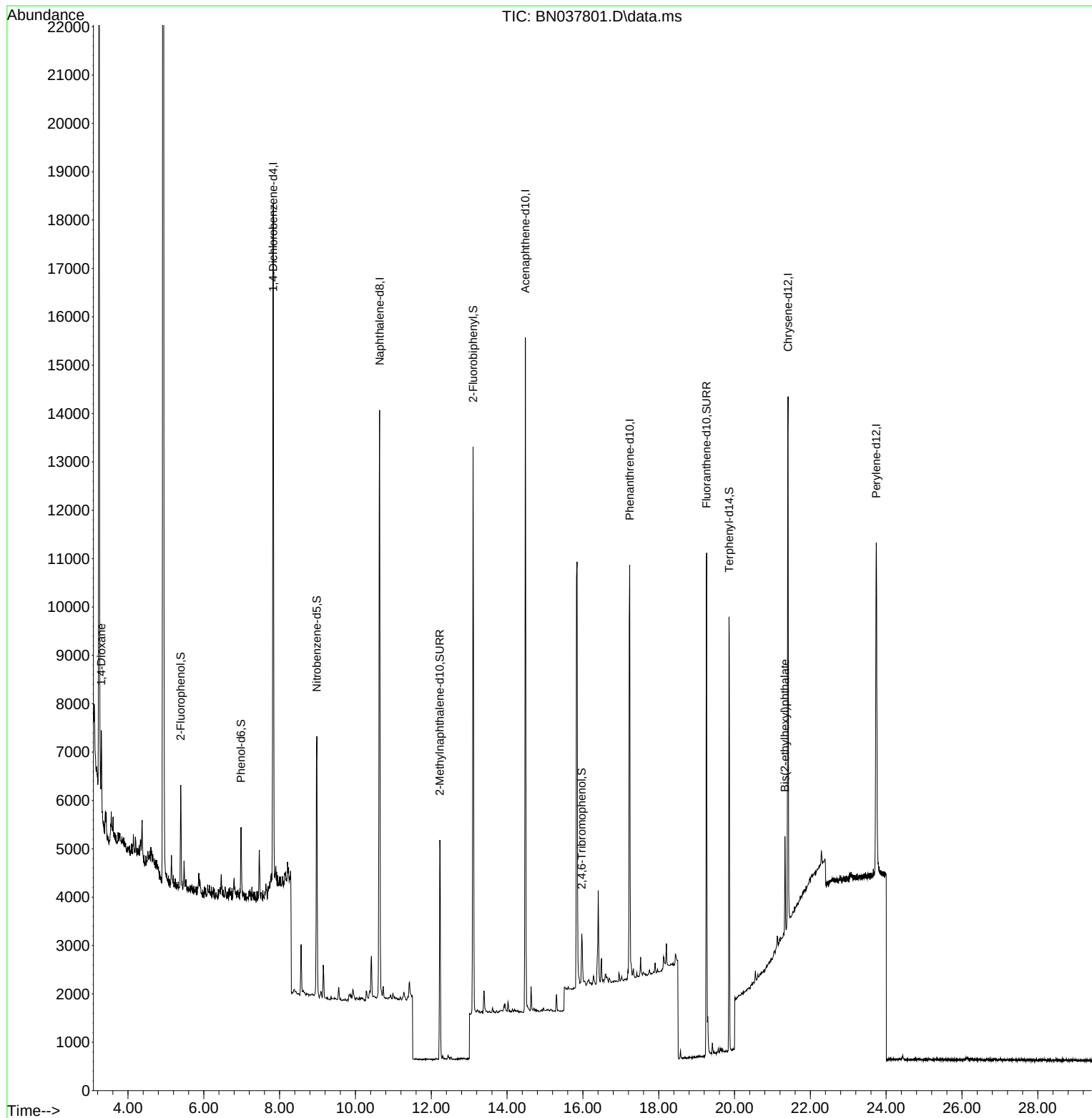
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6805	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16558	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12865	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10547	0.400	ng	0.00
35) Perylene-d12	23.739	264	10142	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1730	0.111	ng	0.00
5) Phenol-d6	6.980	99	1249	0.062	ng	0.00
8) Nitrobenzene-d5	8.982	82	4351	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6125	0.279	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	693	0.361	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9637	0.313	ng	-0.01
27) Fluoranthene-d10	19.262	212	11443	0.354	ng	0.00
31) Terphenyl-d14	19.856	244	8471	0.396	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	1024	0.144	ng	# 87
34) Bis(2-ethylhexyl)phtha...	21.331	149	1817	0.167	ng	98

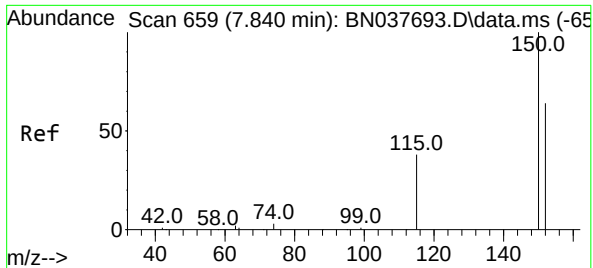
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037801.D
Acq On : 19 Sep 2025 06:25
Operator : RC/JU
Sample : Q3097-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

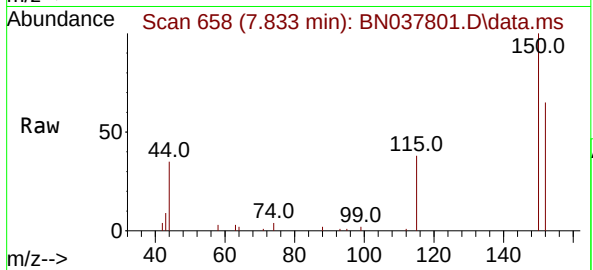
Quant Time: Sep 19 07:43:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



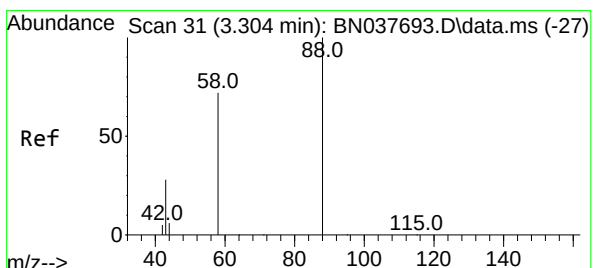
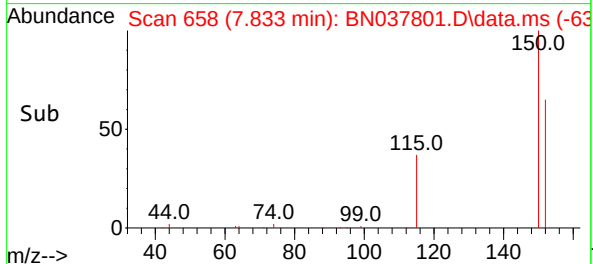
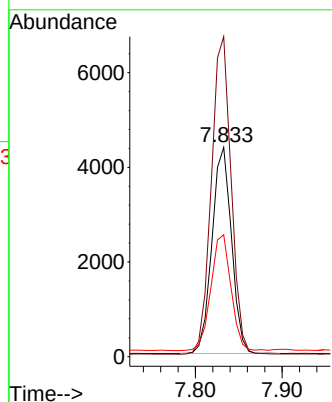


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

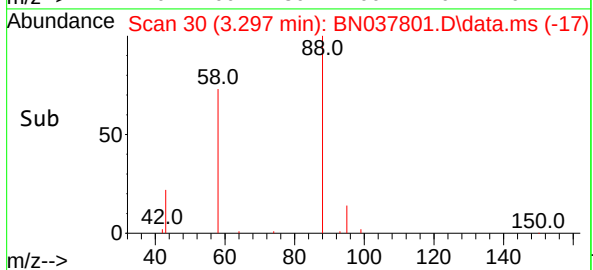
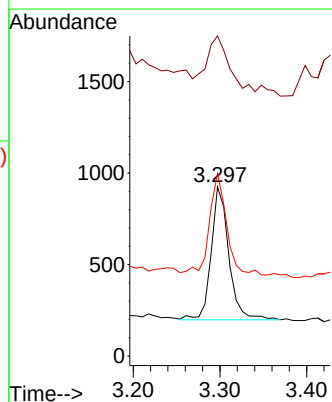
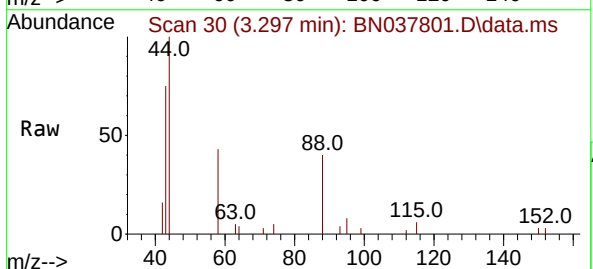


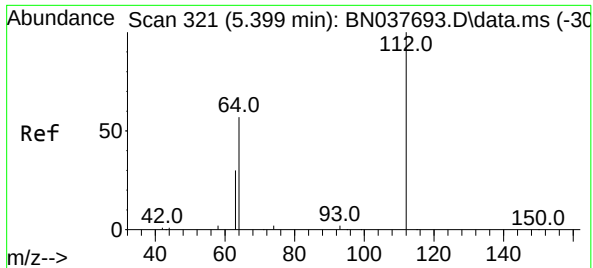
Tgt Ion: 152 Resp: 6805
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 58.3 49.2 73.8



#2
1,4-Dioxane
Concen: 0.144 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion: 88 Resp: 1024
Ion Ratio Lower Upper
88 100
43 53.2 26.8 40.2#
58 74.6 61.9 92.9

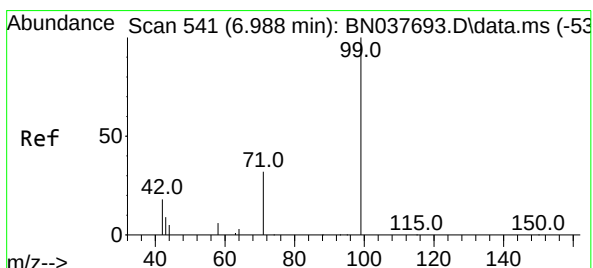
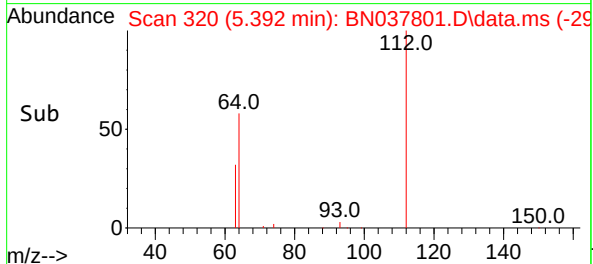
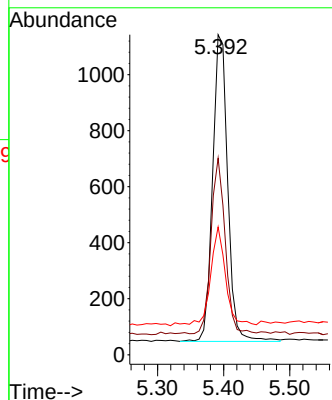
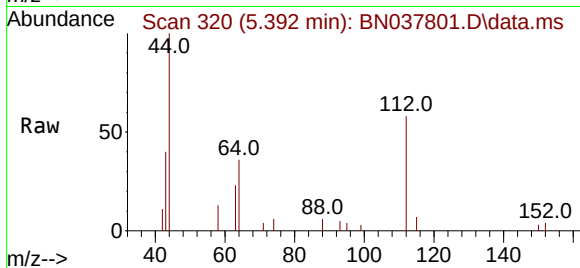




#4
2-Fluorophenol
Concen: 0.111 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

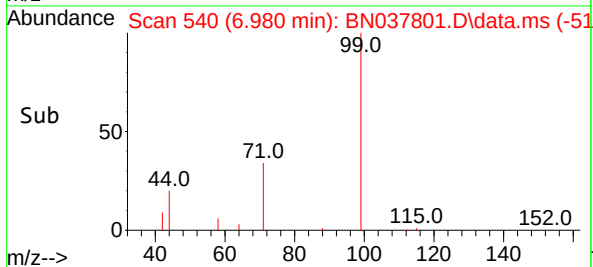
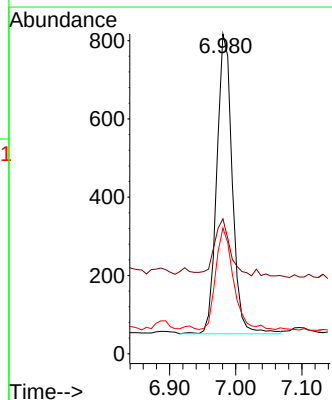
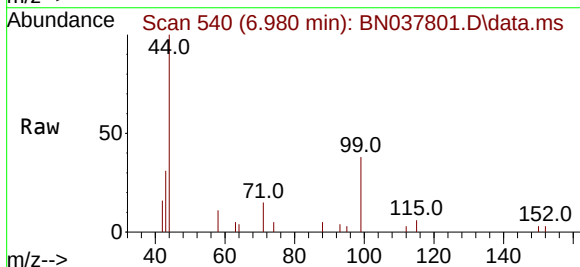
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

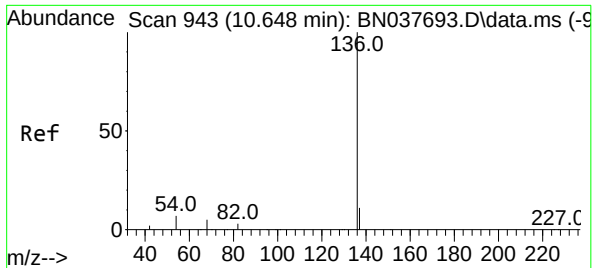
Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	44.9	67.3
63	32.4	24.7	37.1



#5
Phenol-d6
Concen: 0.062 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.6	24.8
71	38.3	26.7	40.1

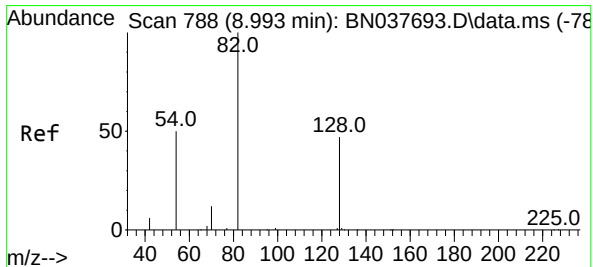
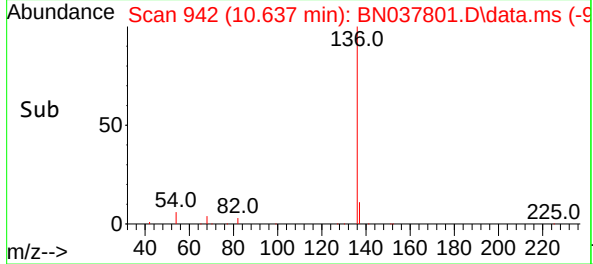
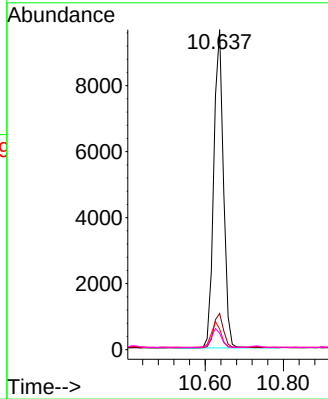
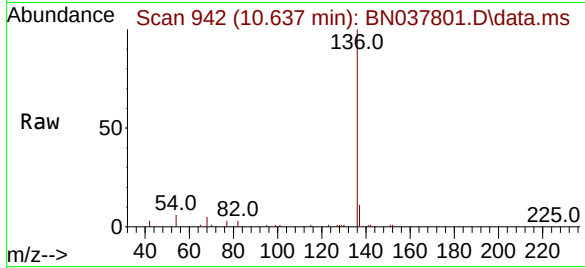




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

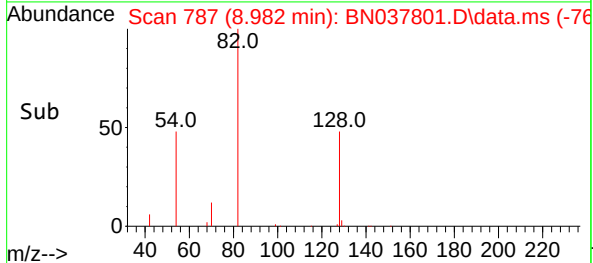
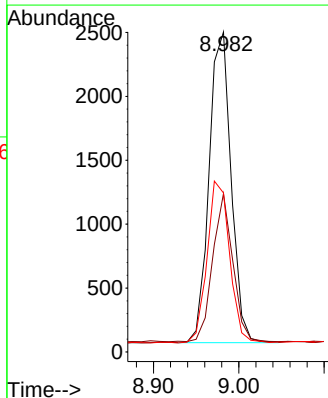
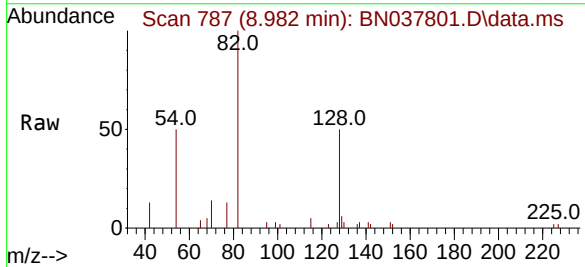
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

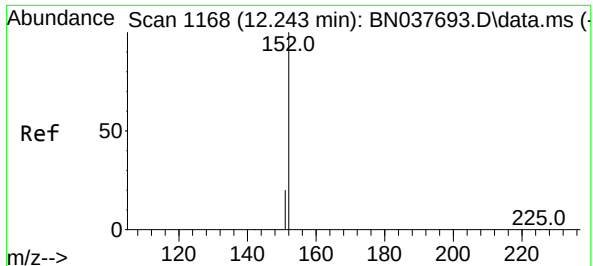
Tgt Ion:	136	Resp:	16558
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.5	6.3	9.5
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:	82	Resp:	4351
Ion	Ratio	Lower	Upper
82	100		
128	49.5	38.3	57.5
54	49.7	41.4	62.2

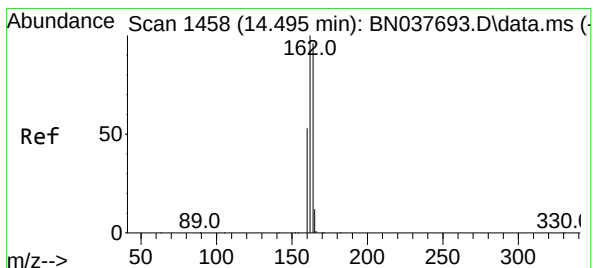
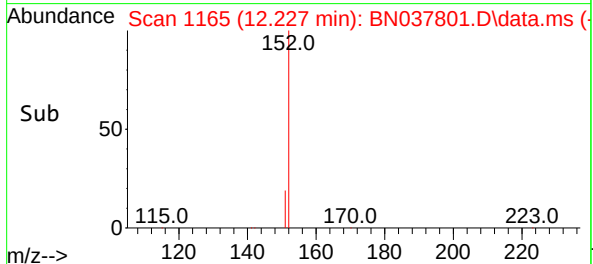
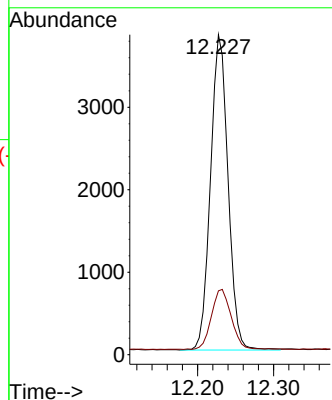
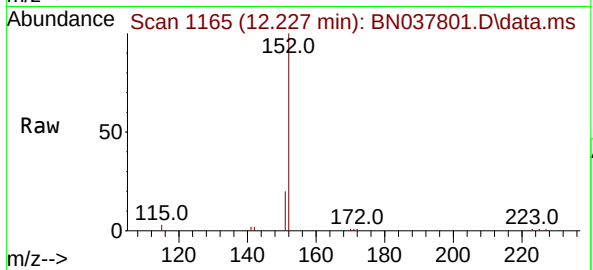




#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

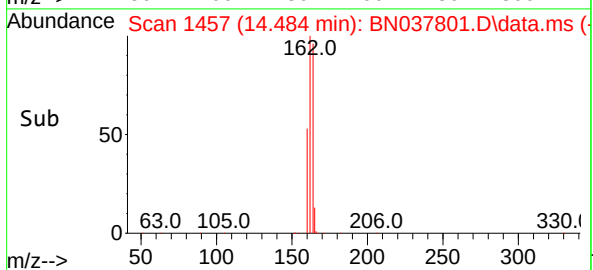
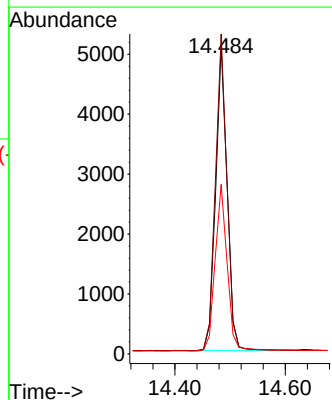
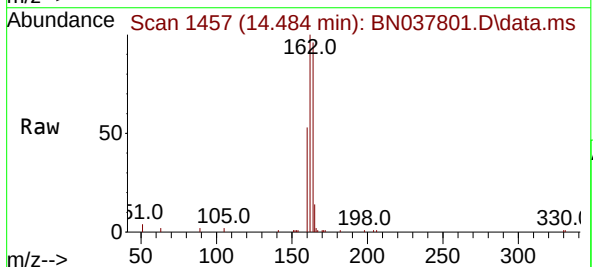
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

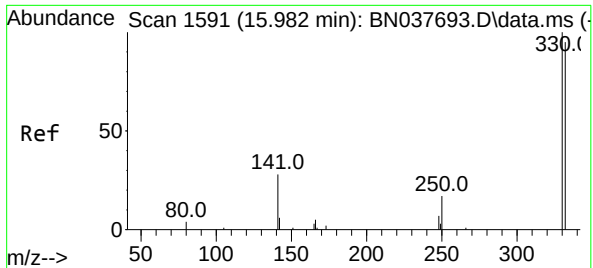
Tgt Ion:152 Resp: 6125
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:164 Resp: 7363
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 55.0 44.3 66.5

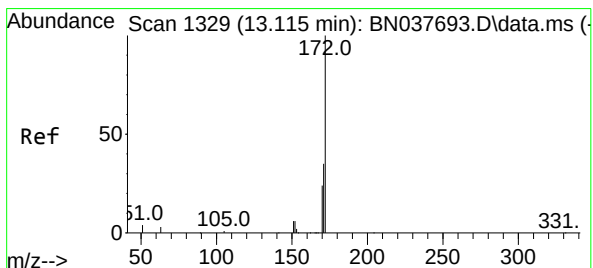
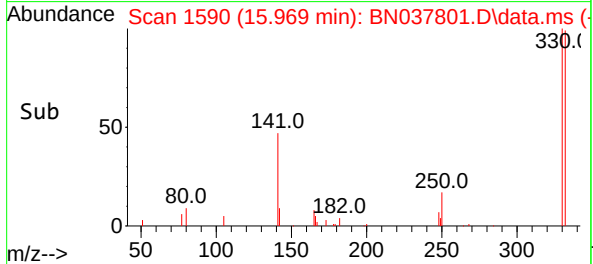
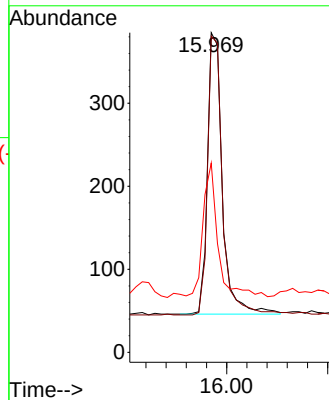
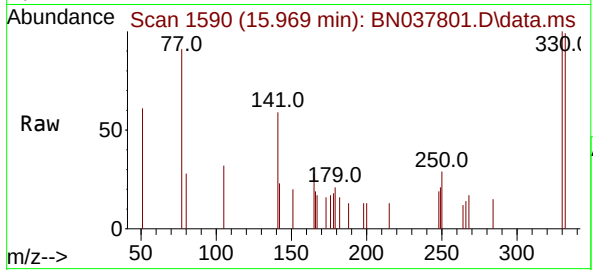




#14
2,4,6-Tribromophenol
Concen: 0.361 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

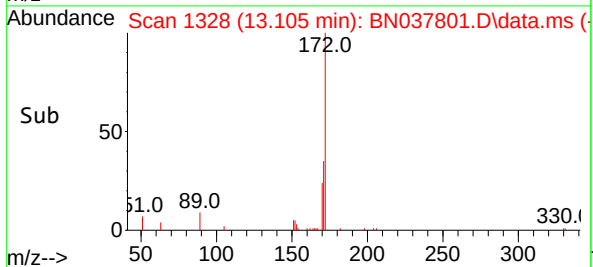
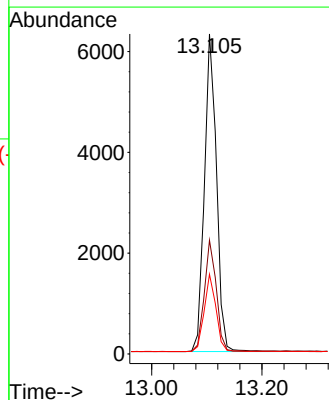
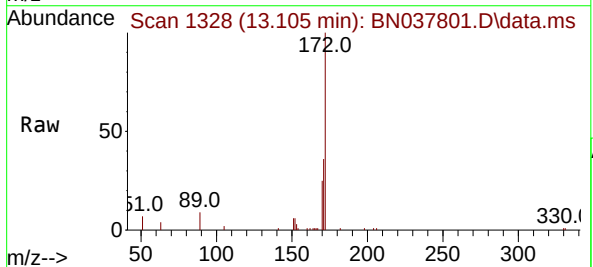
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

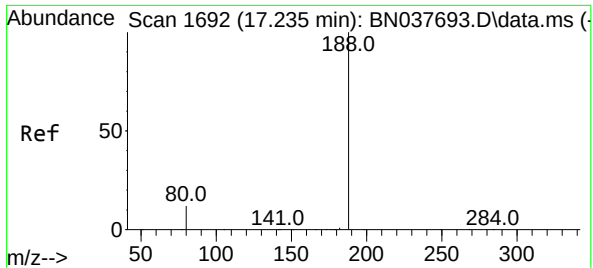
Tgt Ion:330 Resp: 693
Ion Ratio Lower Upper
330 100
332 99.0 75.3 112.9
141 49.4 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:172 Resp: 9637
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 24.9 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037801.D

Acq: 19 Sep 2025 06:25

Instrument :

BNA_N

ClientSampleId :

RE120D3-20250911

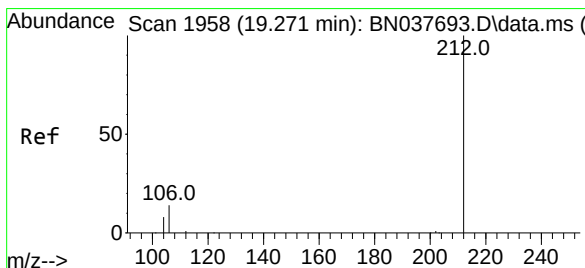
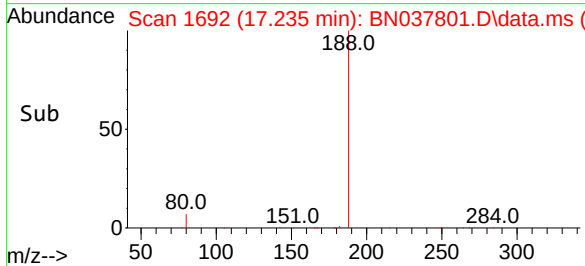
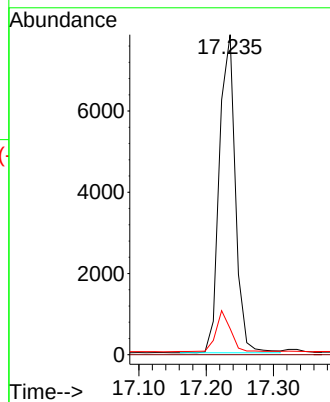
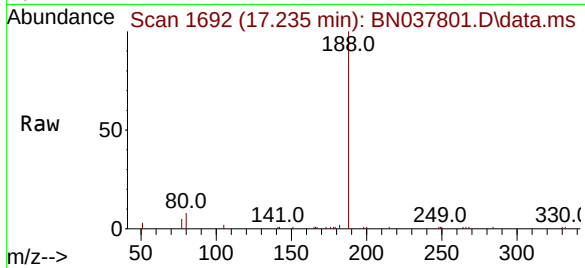
Tgt Ion:188 Resp: 12865

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.1 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037801.D

Acq: 19 Sep 2025 06:25

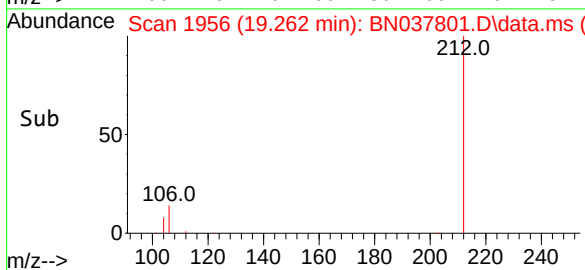
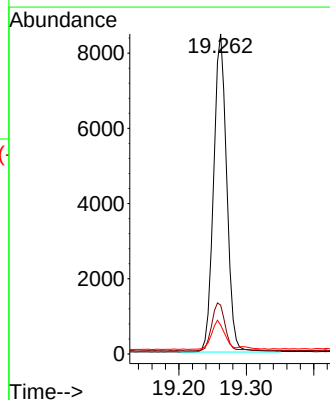
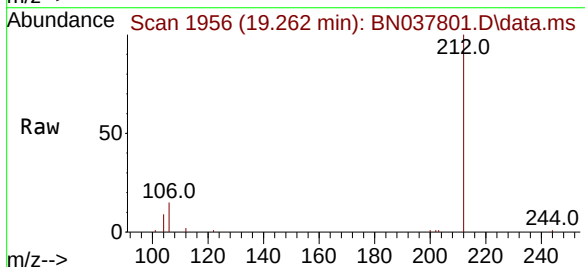
Tgt Ion:212 Resp: 11443

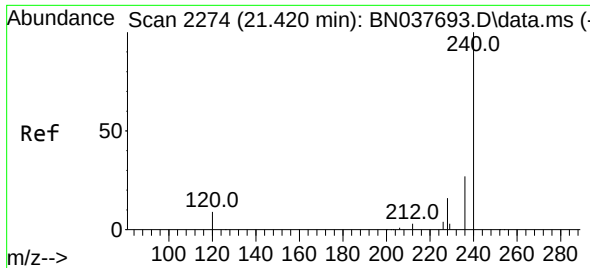
Ion Ratio Lower Upper

212 100

106 15.8 12.2 18.2

104 8.9 6.9 10.3

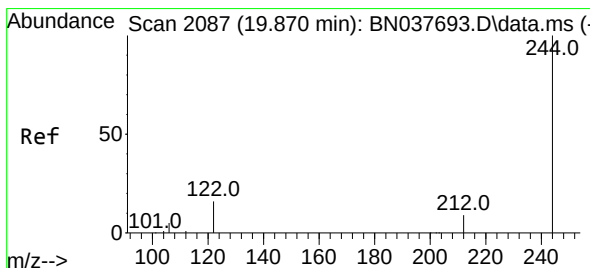
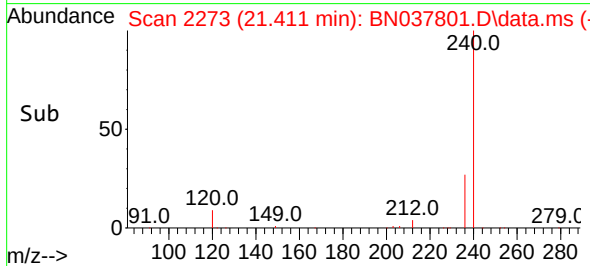
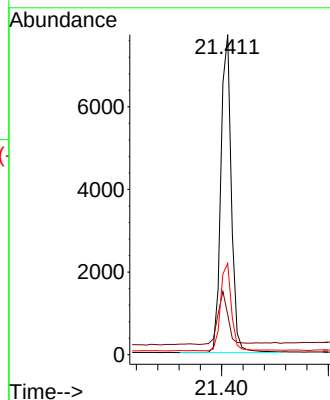
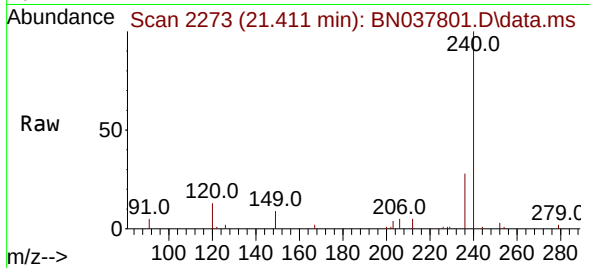




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

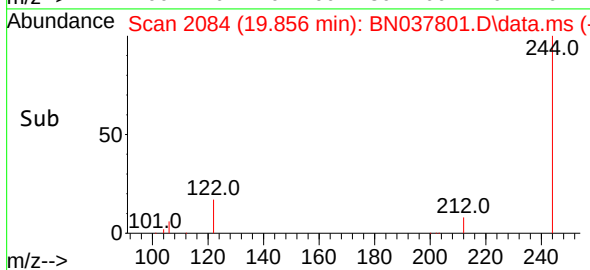
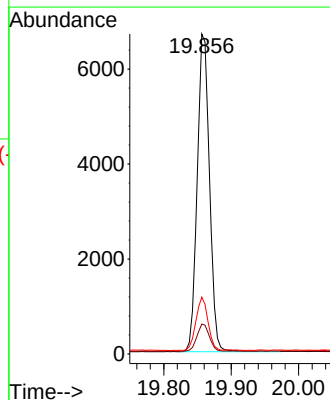
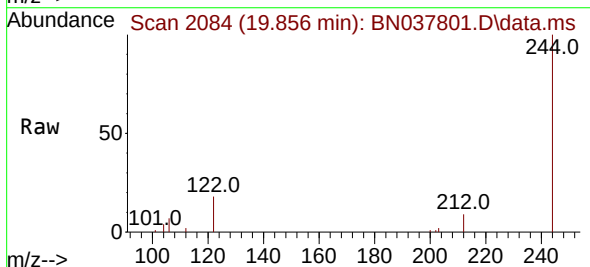
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

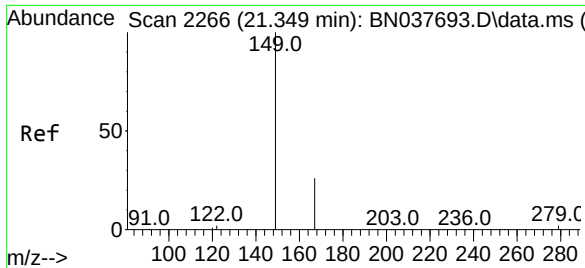
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.2	13.8
236	28.5	22.6	33.8



#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	17.8	13.2	19.8

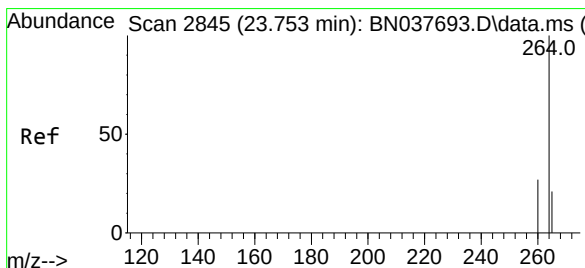
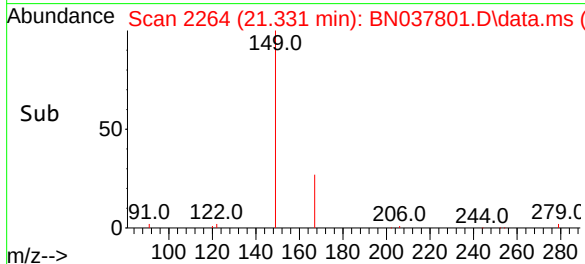
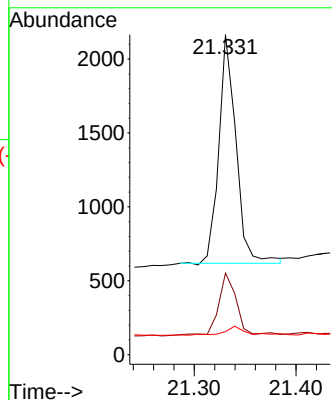
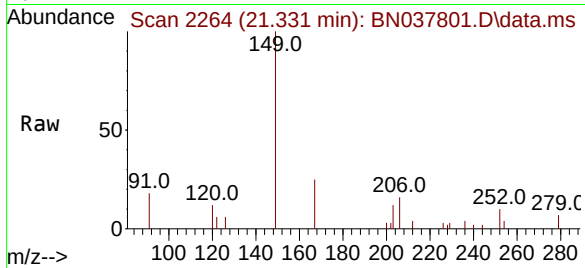




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.167 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

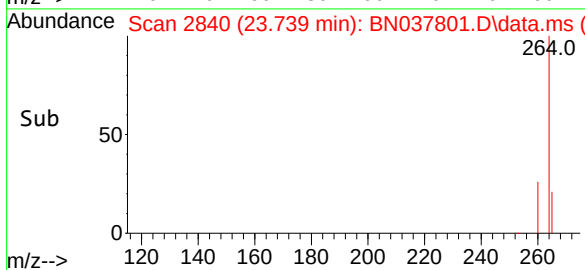
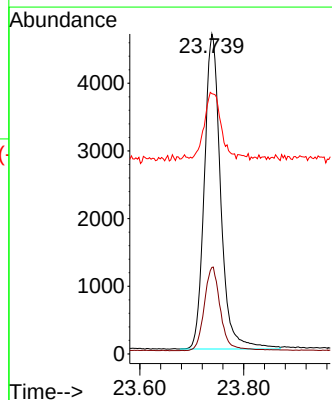
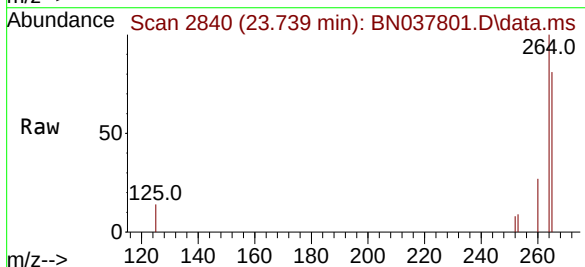
Instrument :
BNA_N
ClientSampleId :
RE120D3-20250911

Tgt Ion:149 Resp: 1817
Ion Ratio Lower Upper
149 100
167 27.0 20.8 31.2
279 4.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037801.D
Acq: 19 Sep 2025 06:25

Tgt Ion:264 Resp: 10142
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 81.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-11	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
BN037802.D	1	09/16/25 09:39	09/19/25 07:01	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6840	7.833				
1146-65-2	Naphthalene-d8	16600	10.637				
15067-26-2	Acenaphthene-d10	7230	14.484				
1517-22-2	Phenanthrene-d10	12400	17.235				
1719-03-5	Chrysene-d12	9970	21.411				
1520-96-3	Perylene-d12	9390	23.741				

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\BN091825\
Data File : BN037802.D
Acq On : 19 Sep 2025 07:01
Operator : RC/JU
Sample : Q3097-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Quant Time: Sep 19 07:43:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

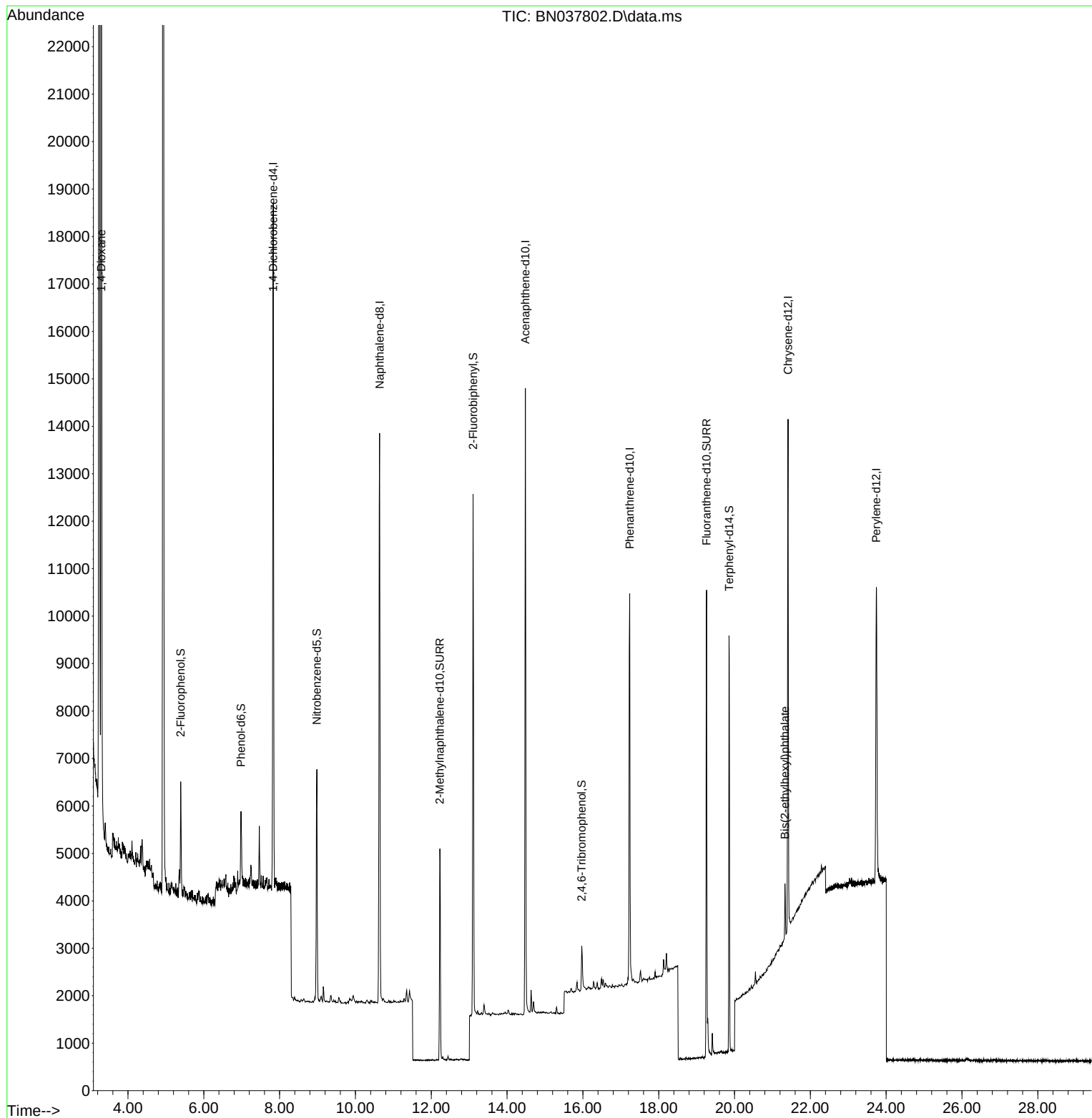
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6841	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16631	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7228	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12396	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9967	0.400	ng	0.00
35) Perylene-d12	23.741	264	9393	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1818	0.116	ng	0.00
5) Phenol-d6	6.980	99	1463	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	3879	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5955	0.270	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	643	0.341	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9283	0.307	ng	-0.01
27) Fluoranthene-d10	19.262	212	11034	0.355	ng	0.00
31) Terphenyl-d14	19.856	244	8243	0.407	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	22600	3.172	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1144	0.111	ng	98

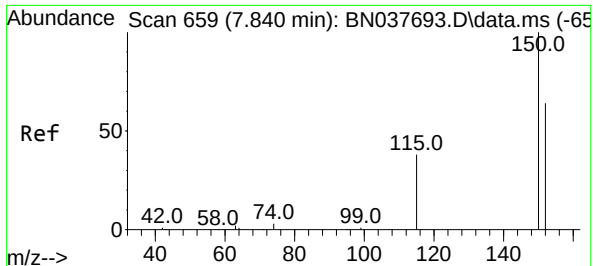
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037802.D
Acq On : 19 Sep 2025 07:01
Operator : RC/JU
Sample : Q3097-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

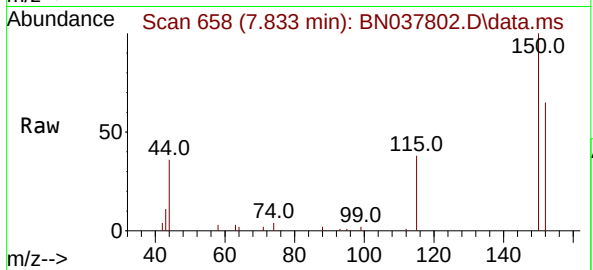
Quant Time: Sep 19 07:43:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



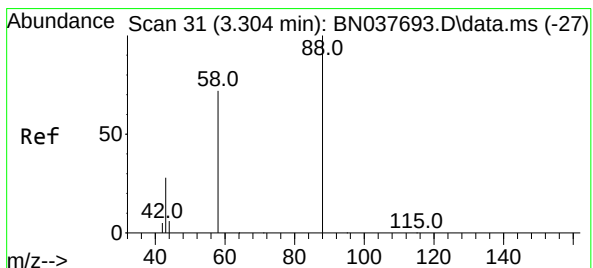
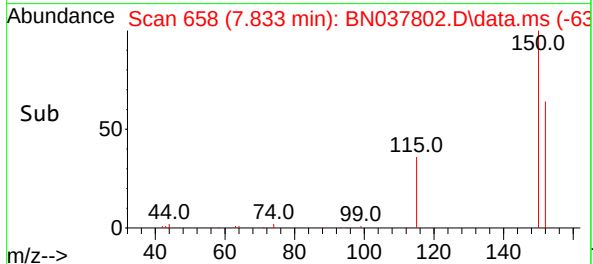
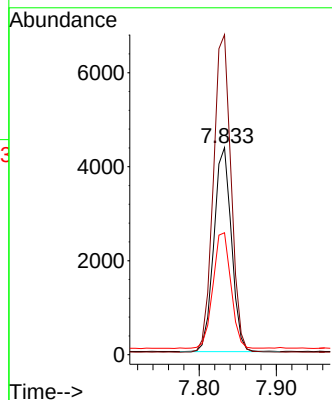


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

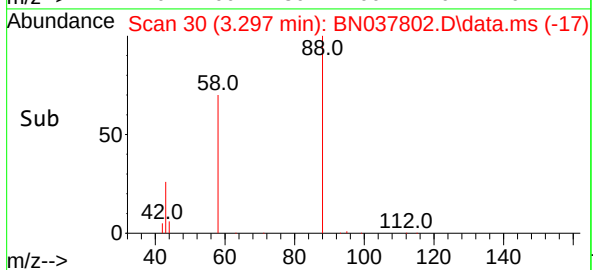
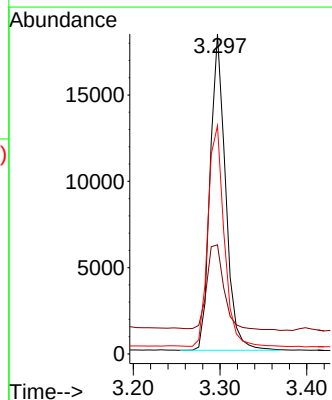
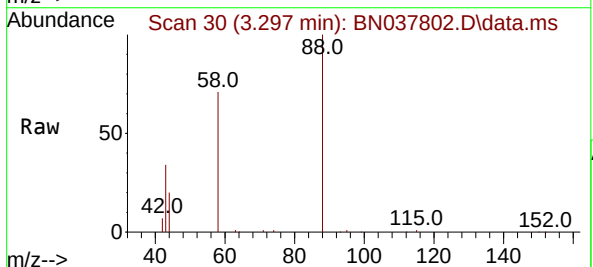


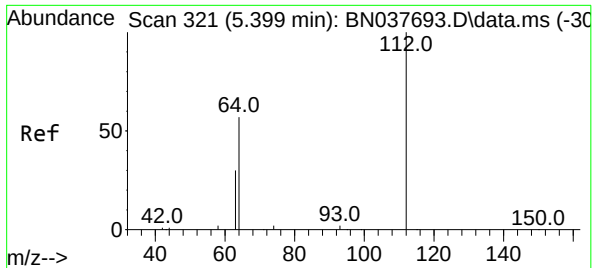
Tgt Ion: 152 Resp: 6841
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 58.9 49.2 73.8



#2
1,4-Dioxane
Concen: 3.172 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion: 88 Resp: 22600
Ion Ratio Lower Upper
88 100
43 31.0 26.8 40.2
58 73.0 61.9 92.9

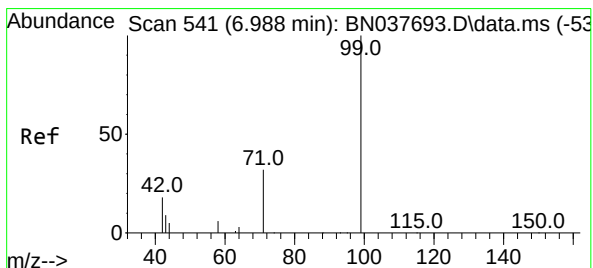
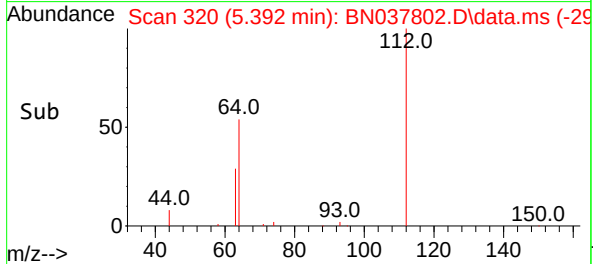
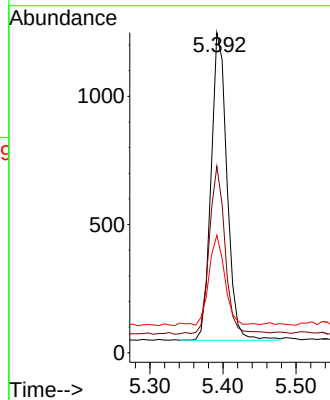
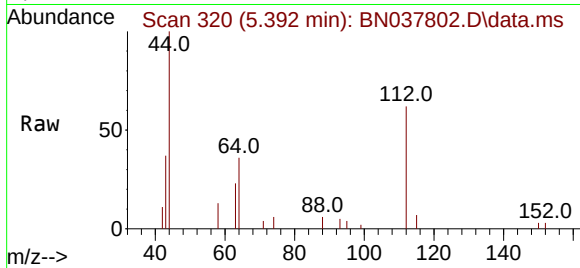




#4
2-Fluorophenol
Concen: 0.116 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

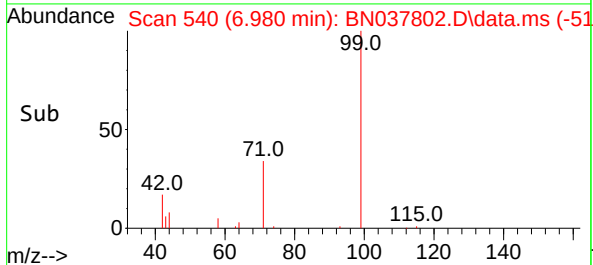
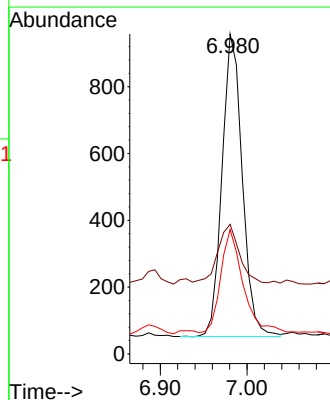
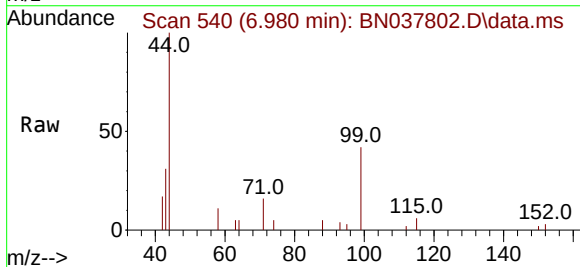
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

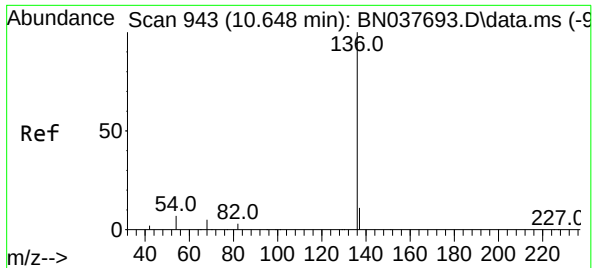
Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	44.9	67.3
63	29.8	24.7	37.1



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.6	24.8
71	37.8	26.7	40.1

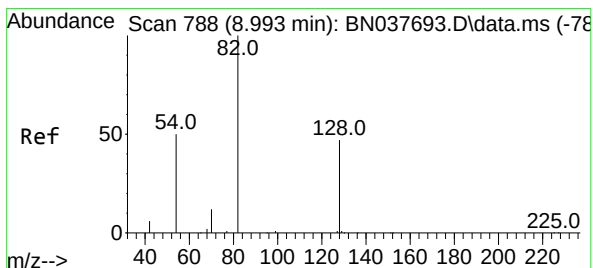
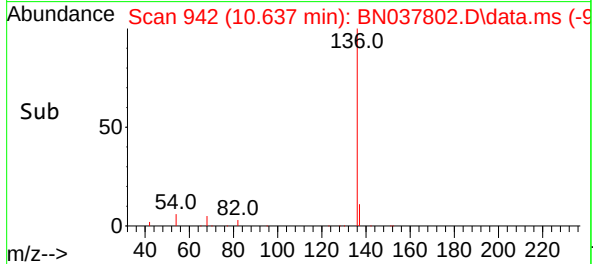
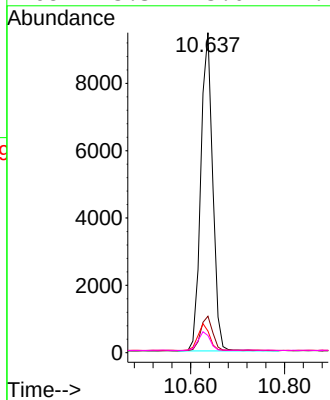
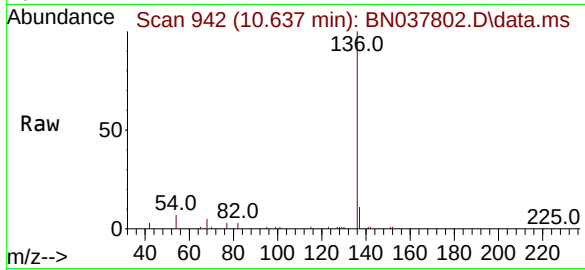




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

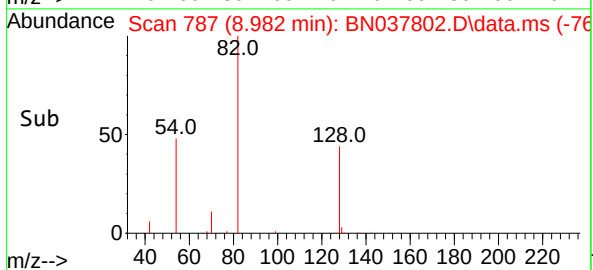
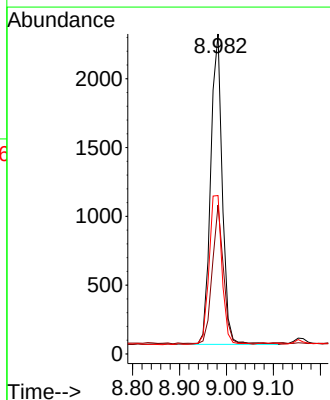
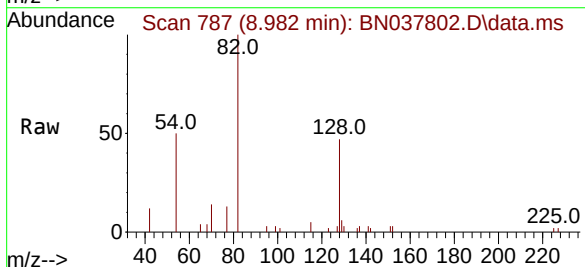
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

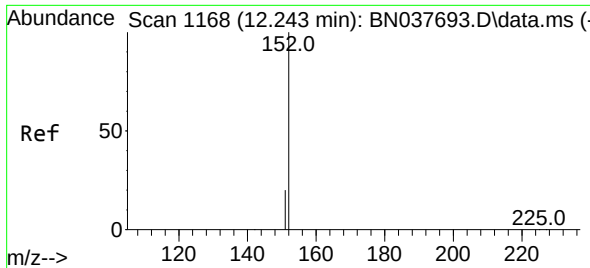
Tgt Ion:	136	Resp:	16631
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.8	6.3	9.5
68	5.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:	82	Resp:	3879
Ion	Ratio	Lower	Upper
82	100		
128	46.5	38.3	57.5
54	49.5	41.4	62.2

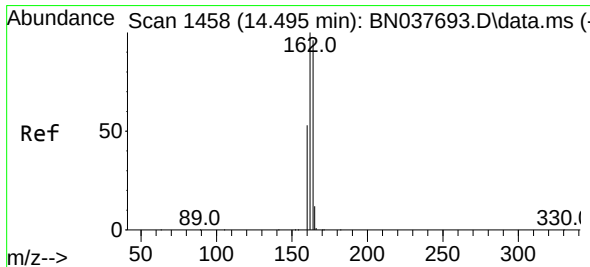
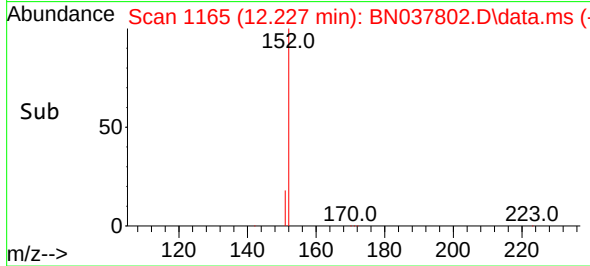
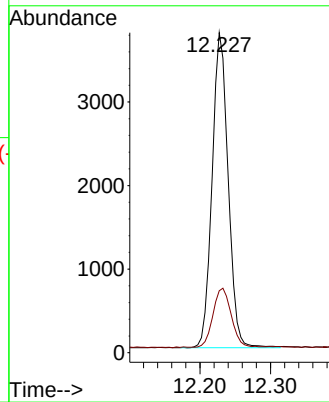
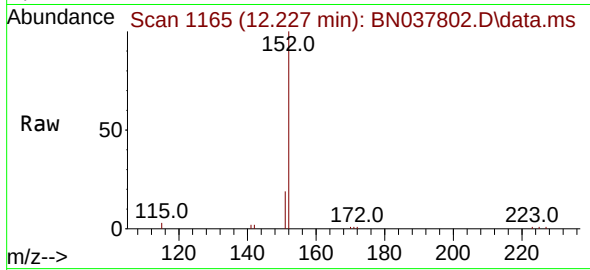




#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

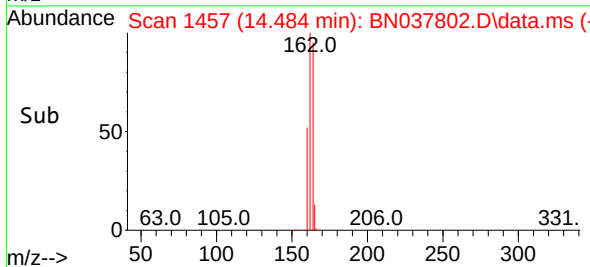
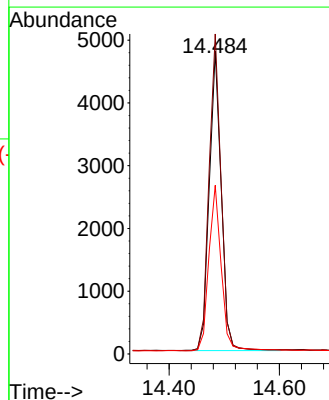
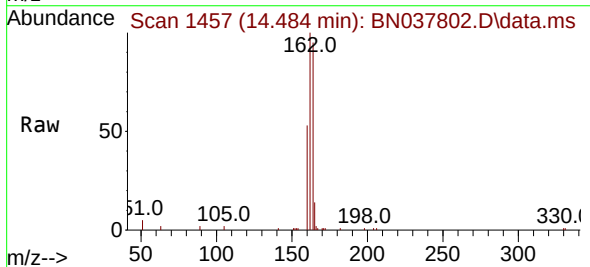
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

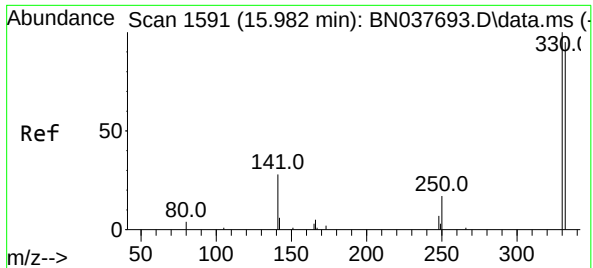
Tgt Ion:152 Resp: 5955
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

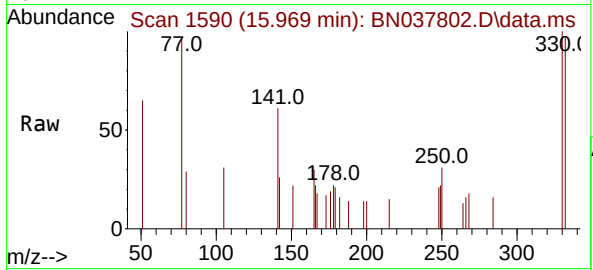
Tgt Ion:164 Resp: 7228
Ion Ratio Lower Upper
164 100
162 105.7 83.1 124.7
160 55.7 44.3 66.5



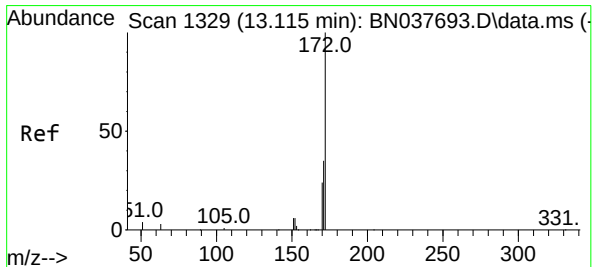
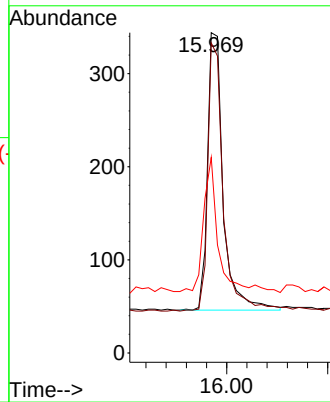
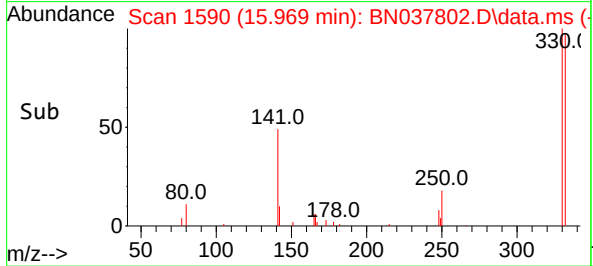


#14
2,4,6-Tribromophenol
Concen: 0.341 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

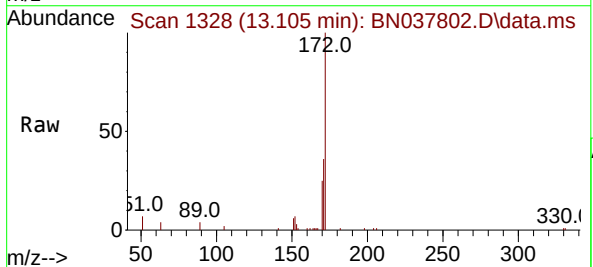
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911



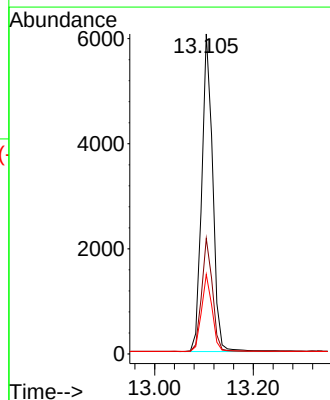
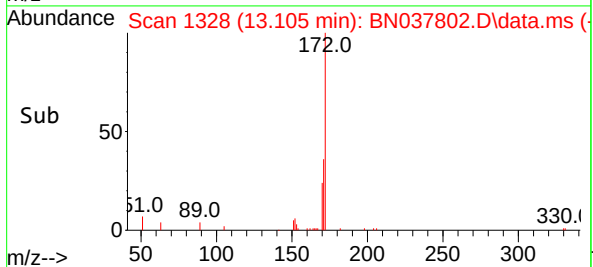
Tgt Ion:330 Resp: 643
Ion Ratio Lower Upper
330 100
332 95.5 75.3 112.9
141 46.8 35.0 52.4

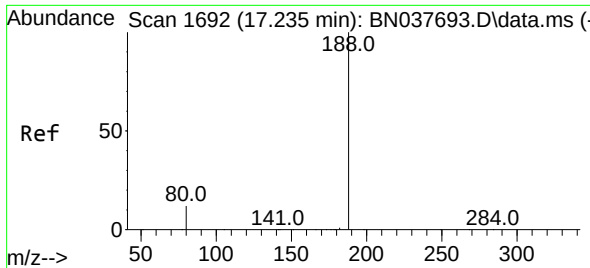


#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01



Tgt Ion:172 Resp: 9283
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.8 19.8 29.8

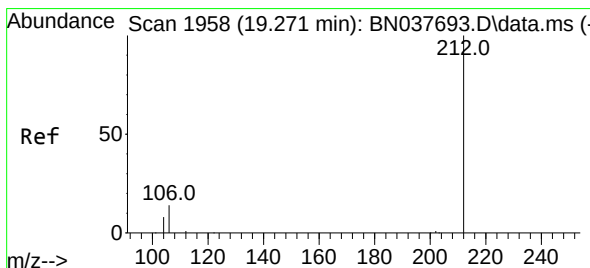
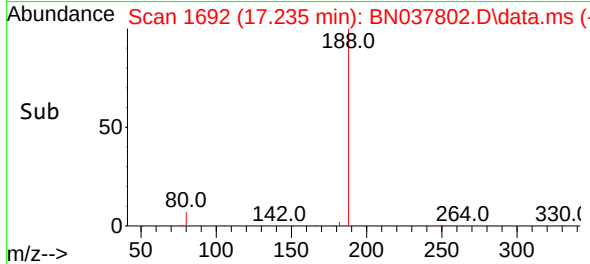
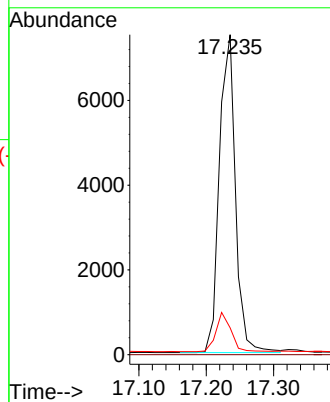
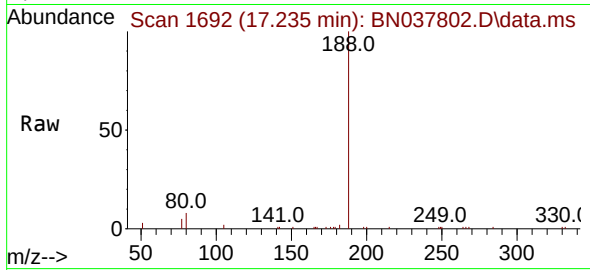




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

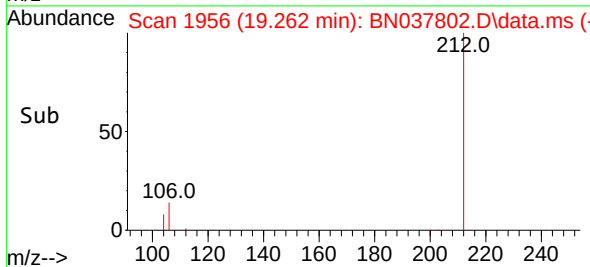
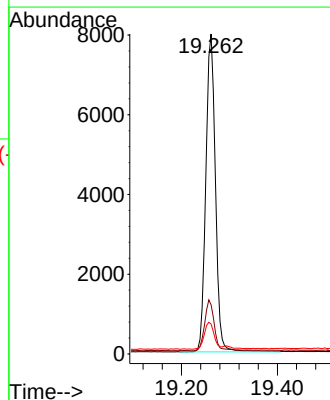
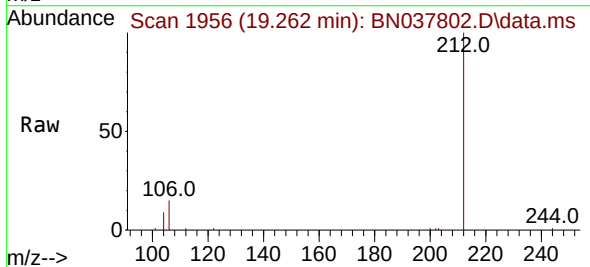
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

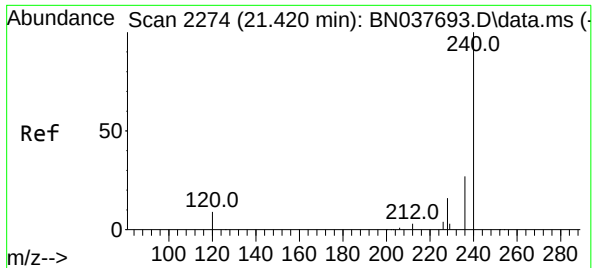
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3

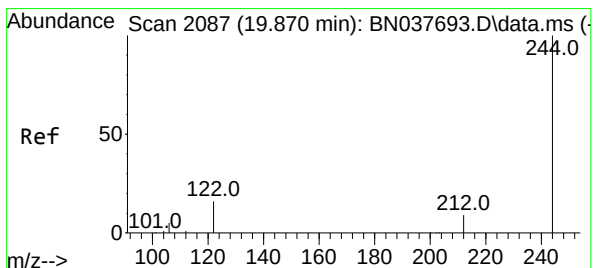
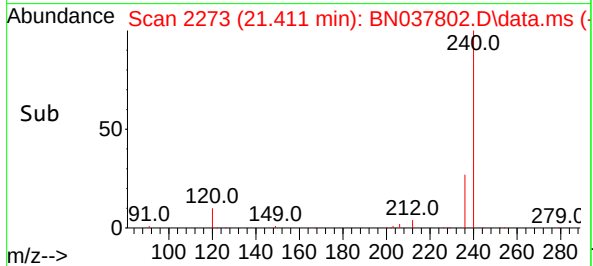
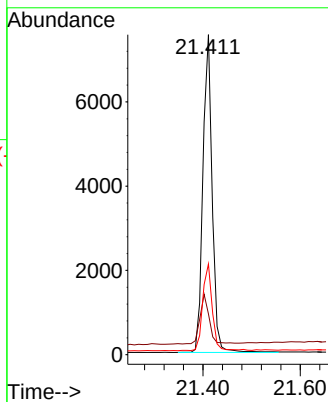
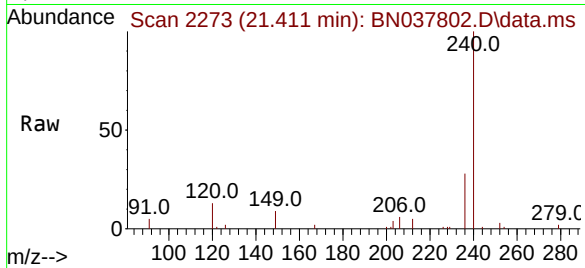




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

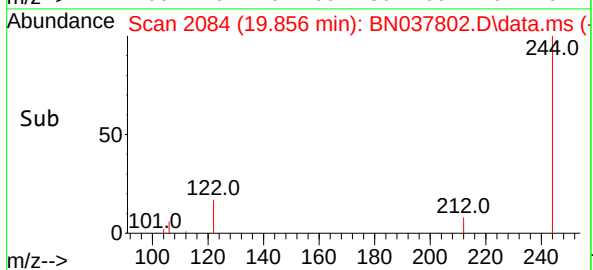
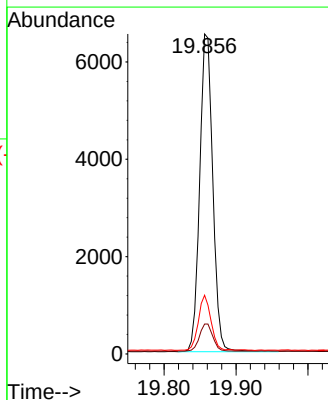
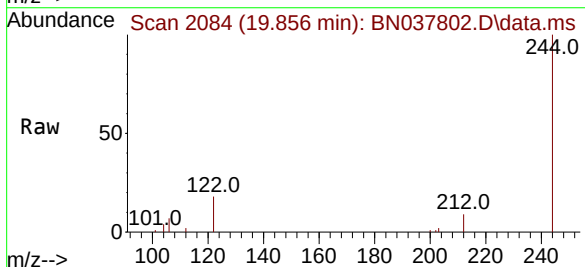
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

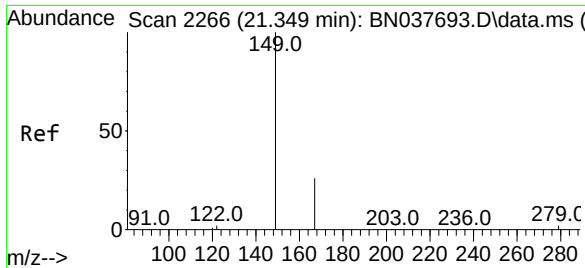
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	28.4	22.6	33.8



#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.5	11.3
122	18.4	13.2	19.8

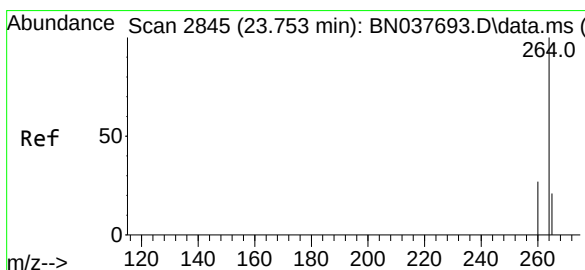
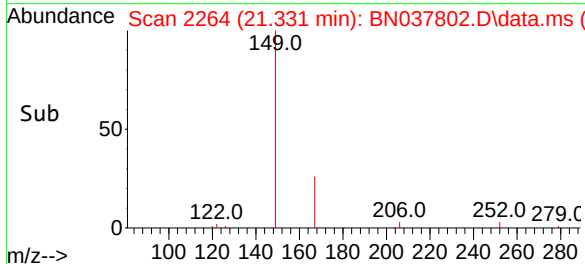
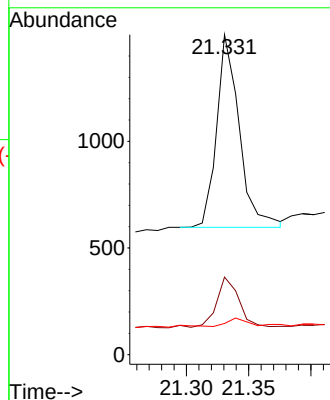
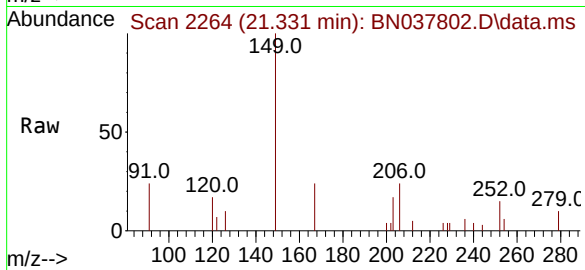




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

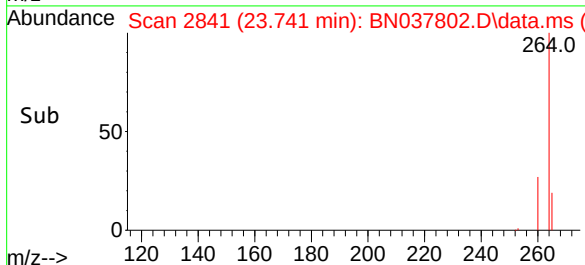
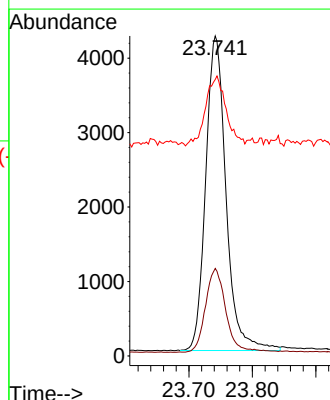
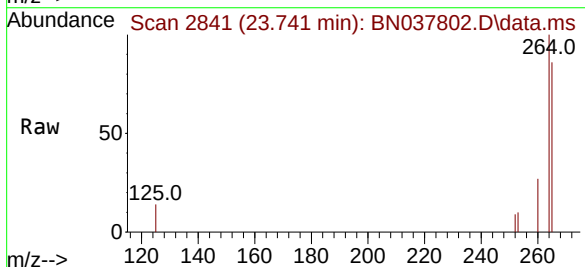
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250911

Tgt Ion:149 Resp: 1144
Ion Ratio Lower Upper
149 100
167 27.0 20.8 31.2
279 4.2 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037802.D
Acq: 19 Sep 2025 07:01

Tgt Ion:264 Resp: 9393
Ion Ratio Lower Upper
264 100
260 27.3 21.8 32.8
265 86.4 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037803.D	1	09/16/25 09:39	09/19/25 07:37	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6420	7.833				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7440	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	10800	21.411				
1520-96-3	Perylene-d12	9930	23.738				

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\BN091825\
Data File : BN037803.D
Acq On : 19 Sep 2025 07:37
Operator : RC/JU
Sample : Q3097-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Quant Time: Sep 19 08:02:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

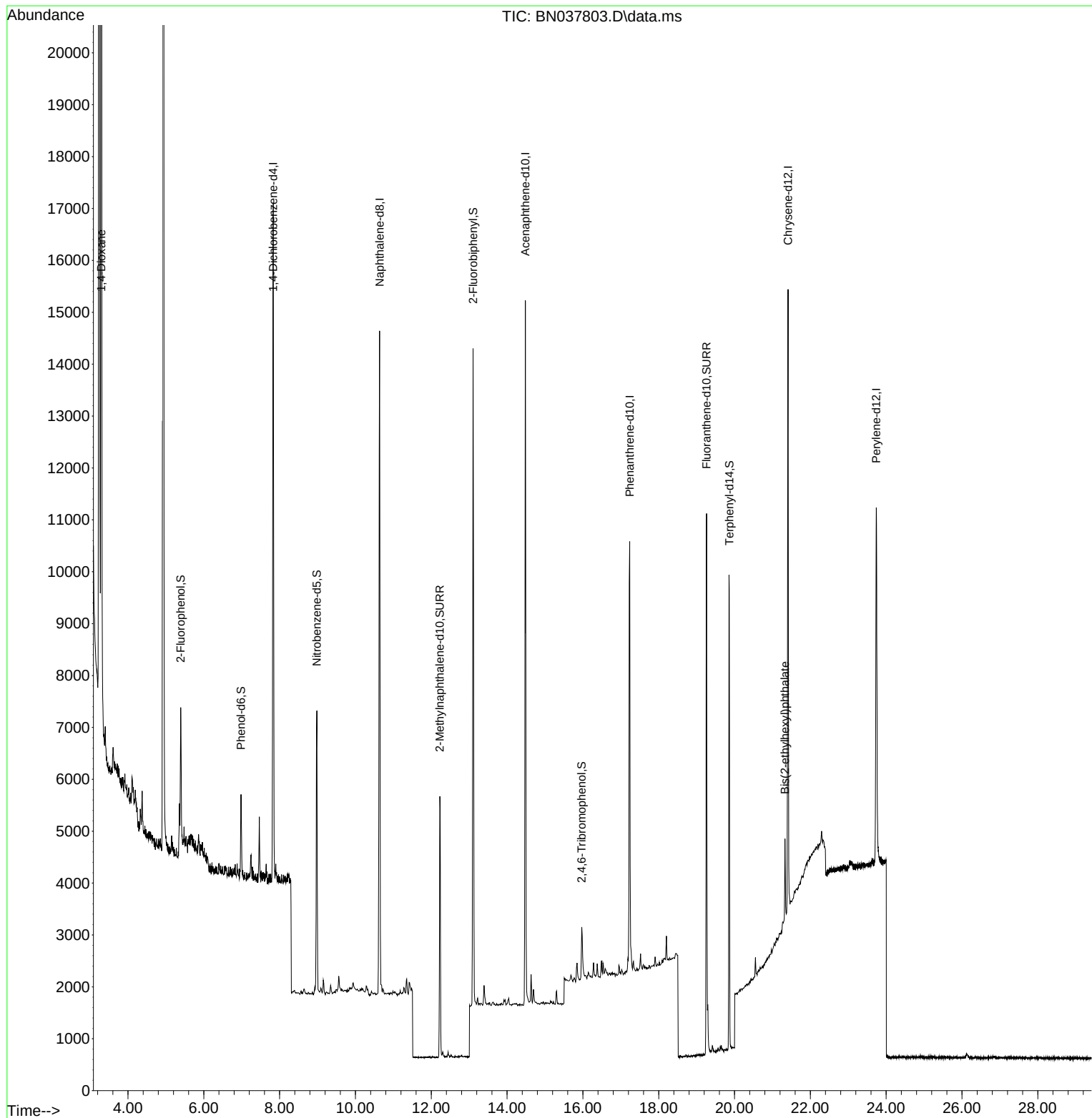
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6422	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16969	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7436	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12905	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10811	0.400	ng	0.00
35) Perylene-d12	23.738	264	9925	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	2057	0.140	ng	0.00
5) Phenol-d6	6.980	99	1389	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	4366	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	6754	0.300	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	693	0.357	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	10701	0.344	ng	-0.01
27) Fluoranthene-d10	19.262	212	11673	0.360	ng	0.00
31) Terphenyl-d14	19.861	244	8702	0.397	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	24827	3.712	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	1471	0.132	ng	# 97

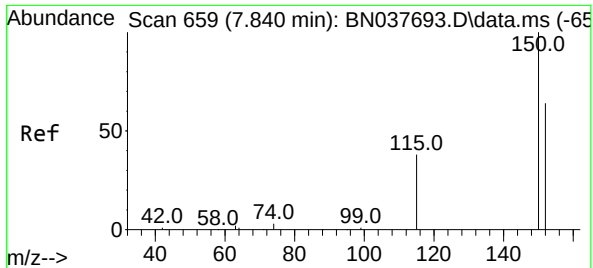
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037803.D
Acq On : 19 Sep 2025 07:37
Operator : RC/JU
Sample : Q3097-12
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Quant Time: Sep 19 08:02:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
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QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

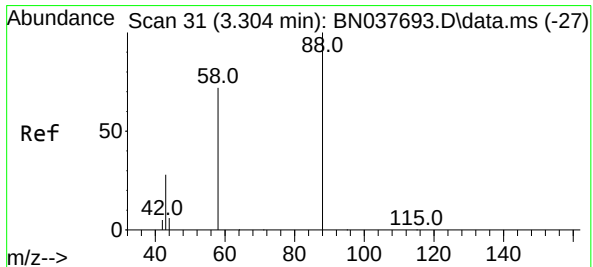
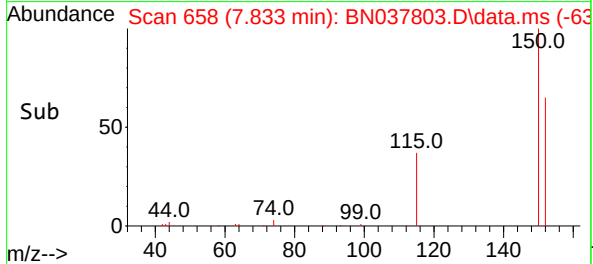
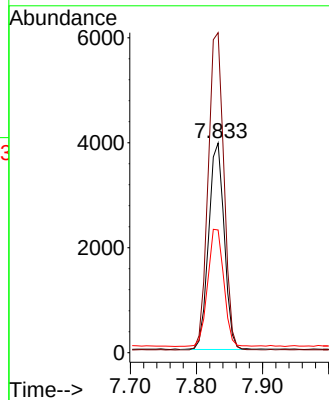
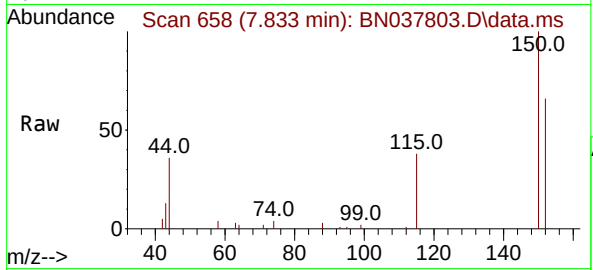




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

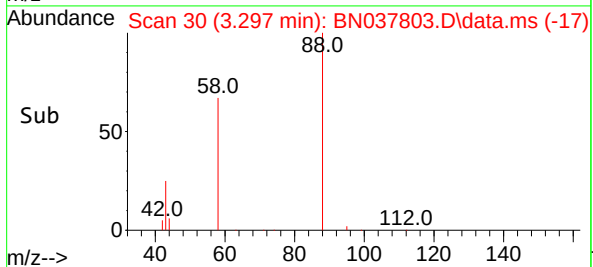
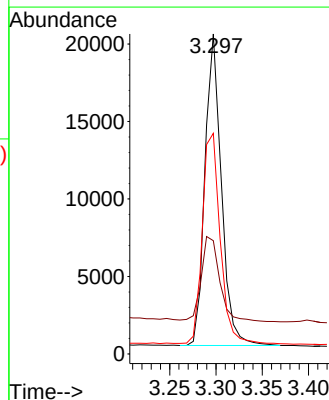
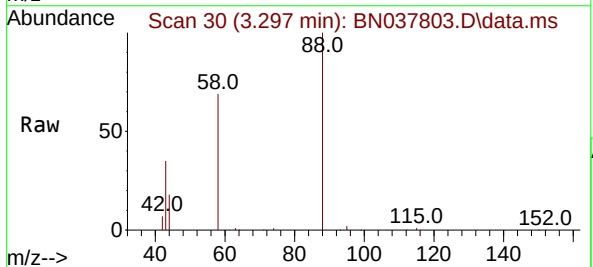
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

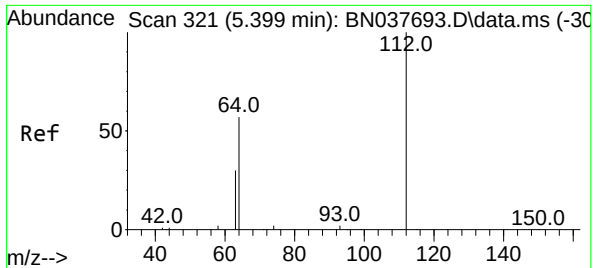
Tgt Ion:152 Resp: 6422
Ion Ratio Lower Upper
152 100
150 152.7 124.5 186.7
115 58.6 49.2 73.8



#2
1,4-Dioxane
Concen: 3.712 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 88 Resp: 24827
Ion Ratio Lower Upper
88 100
43 31.1 26.8 40.2
58 73.4 61.9 92.9

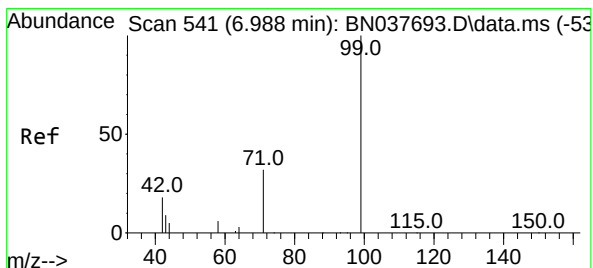
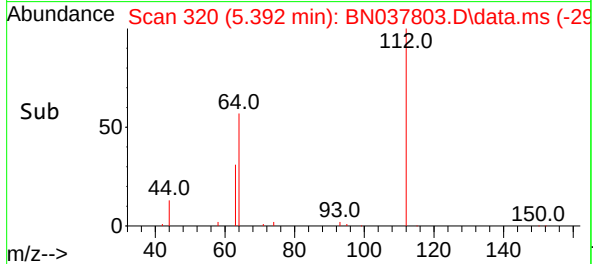
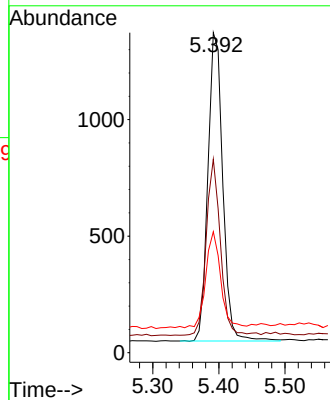
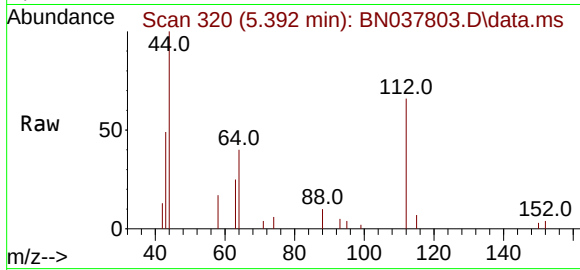




#4
2-Fluorophenol
Concen: 0.140 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

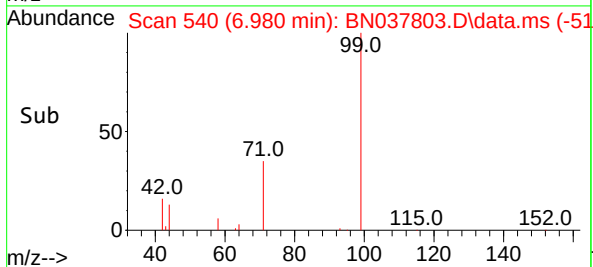
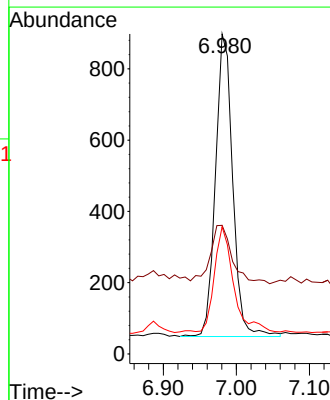
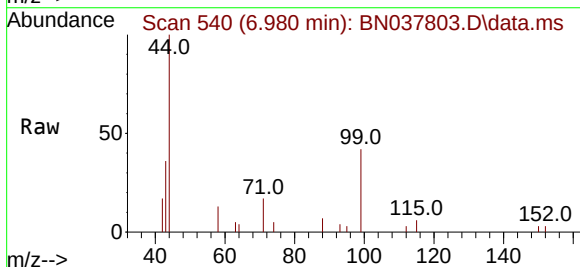
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

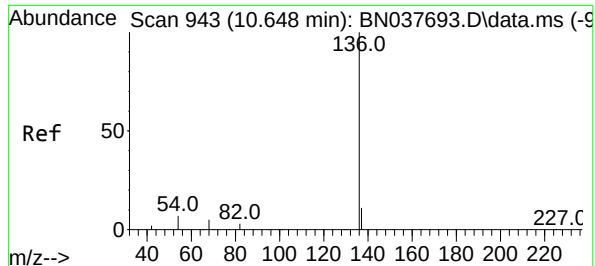
Tgt Ion:112 Resp: 2057
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 31.0 24.7 37.1



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 99 Resp: 1389
Ion Ratio Lower Upper
99 100
42 24.8 16.6 24.8
71 39.8 26.7 40.1

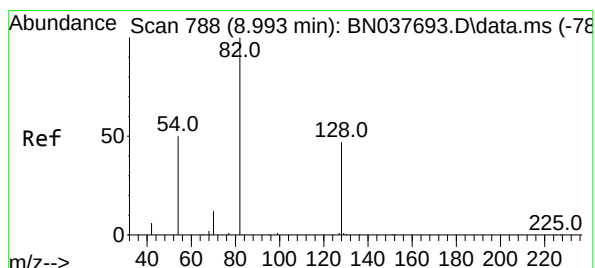
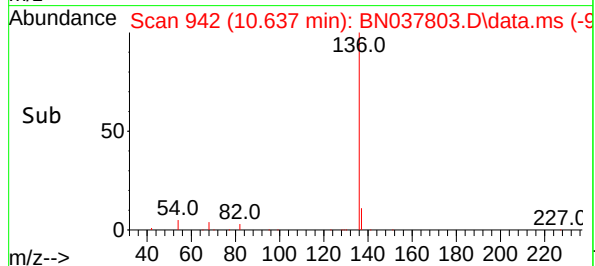
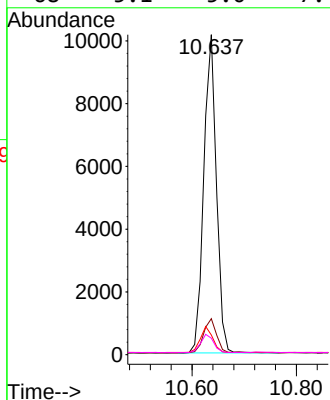
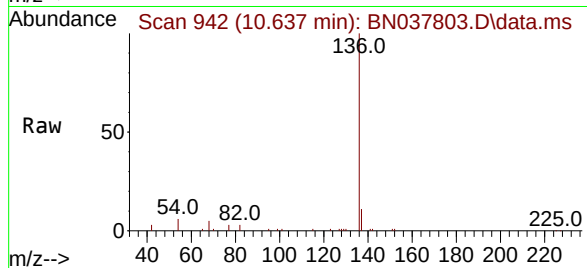




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

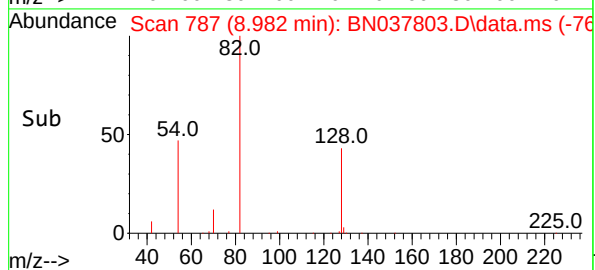
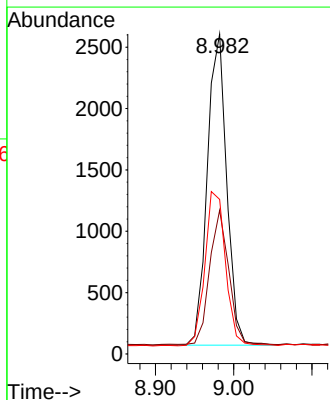
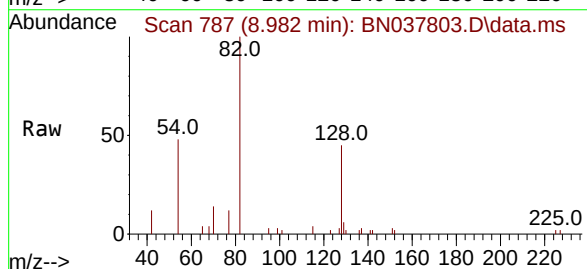
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

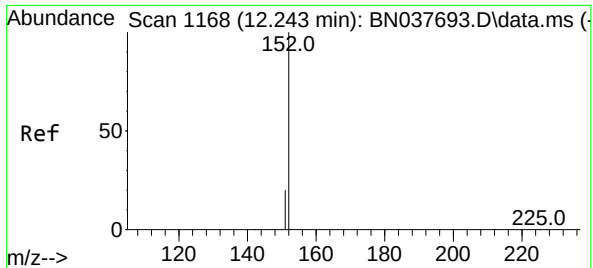
Tgt Ion:	136	Resp:	16969
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.2	6.3	9.5#
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:	82	Resp:	4366
Ion	Ratio	Lower	Upper
82	100		
128	44.9	38.3	57.5
54	48.3	41.4	62.2

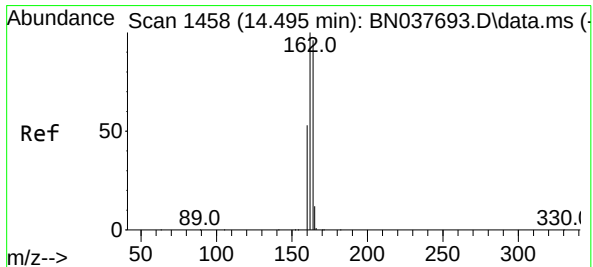
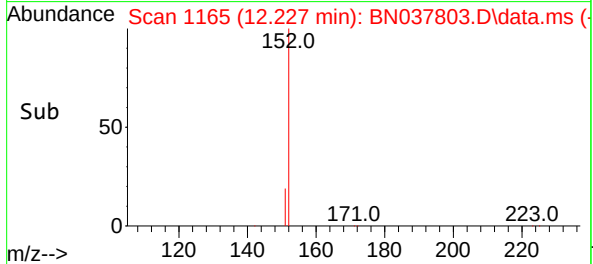
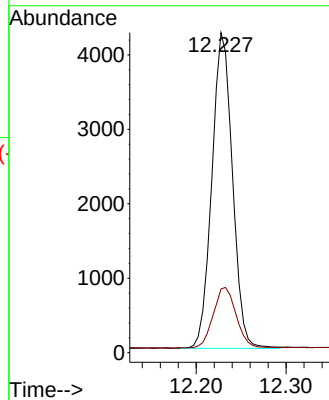
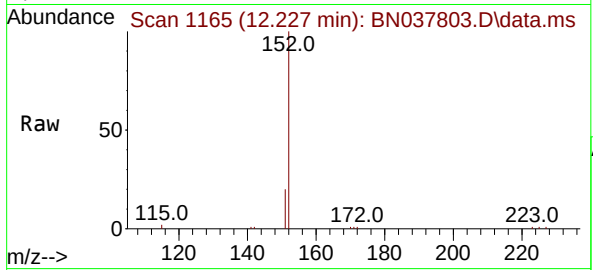




#11
2-Methylnaphthalene-d10
Concen: 0.300 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

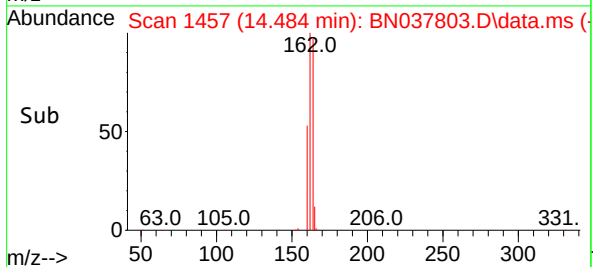
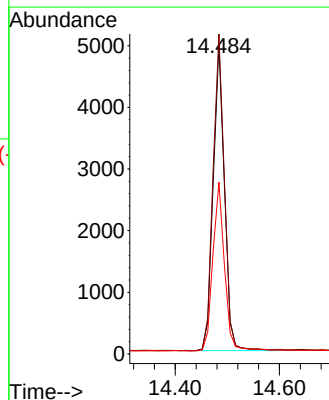
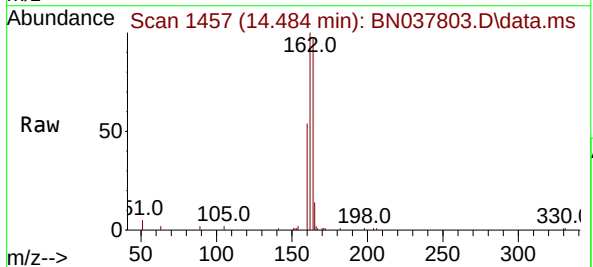
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

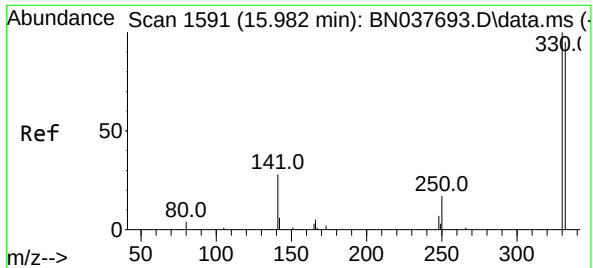
Tgt Ion:152 Resp: 6754
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:164 Resp: 7436
Ion Ratio Lower Upper
164 100
162 103.4 83.1 124.7
160 55.5 44.3 66.5

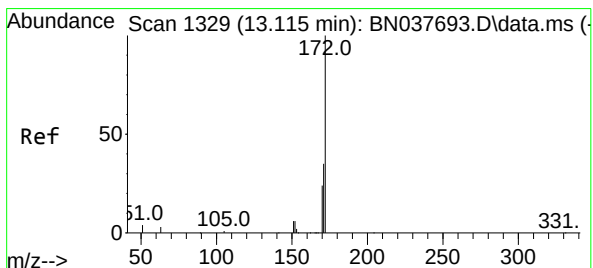
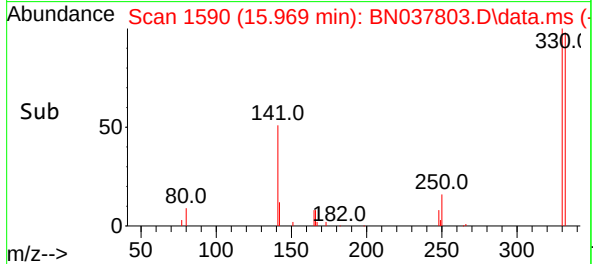
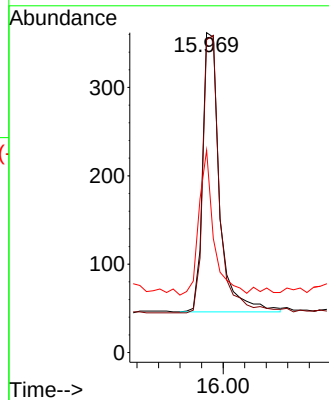
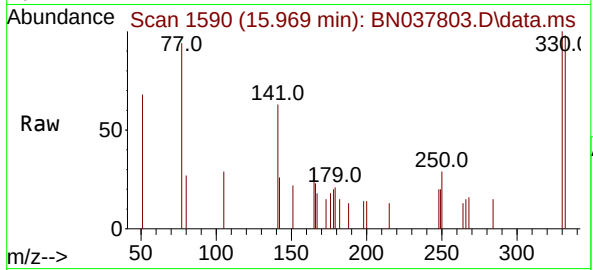




#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

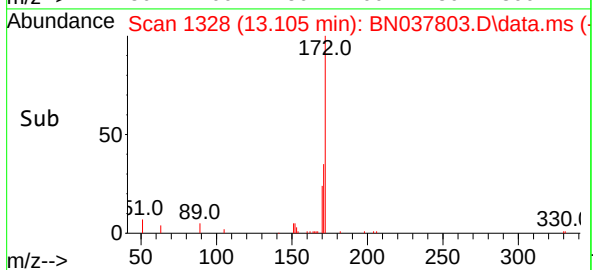
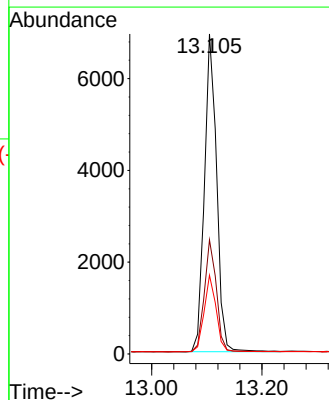
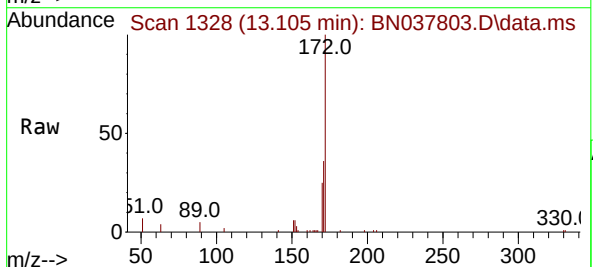
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

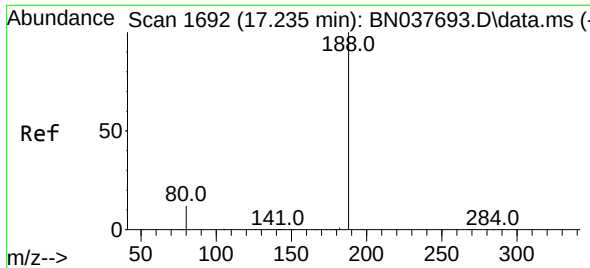
Tgt Ion: 330 Resp: 693
Ion Ratio Lower Upper
330 100
332 97.1 75.3 112.9
141 45.3 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion: 172 Resp: 10701
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 24.6 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037803.D

Acq: 19 Sep 2025 07:37

Instrument :

BNA_N

ClientSampleId :

DUP04-20250911

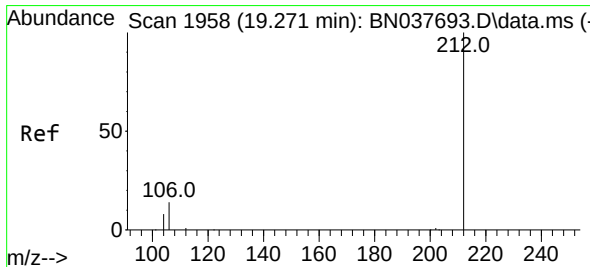
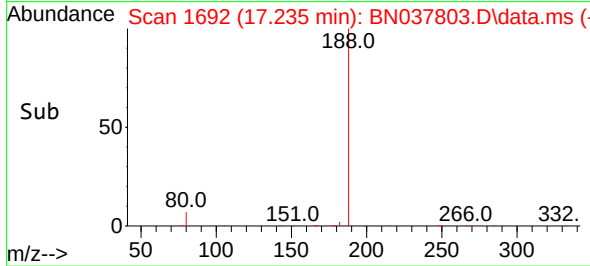
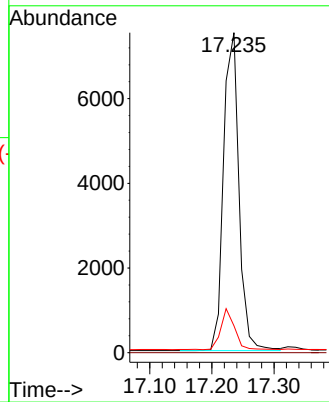
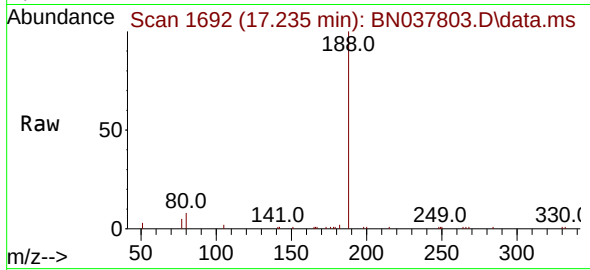
Tgt Ion:188 Resp: 12905

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.4 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037803.D

Acq: 19 Sep 2025 07:37

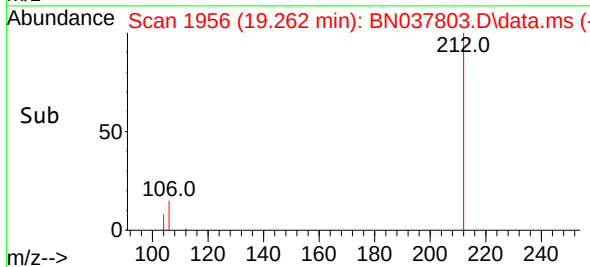
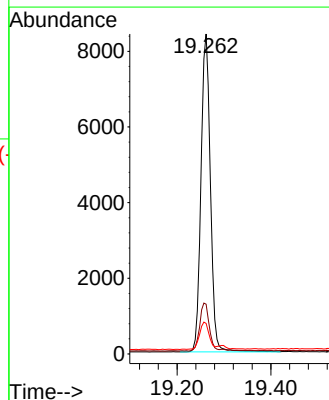
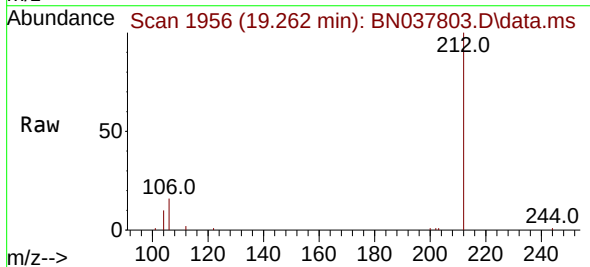
Tgt Ion:212 Resp: 11673

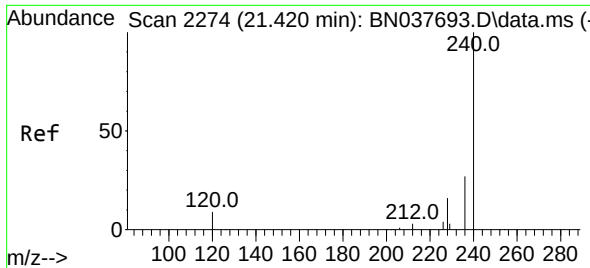
Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

104 8.8 6.9 10.3

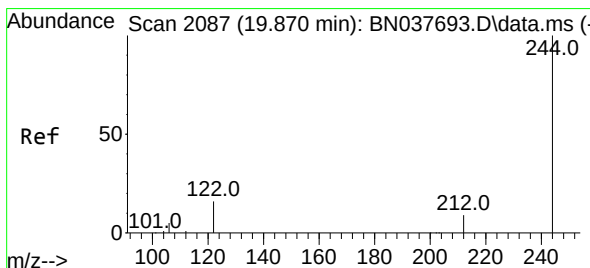
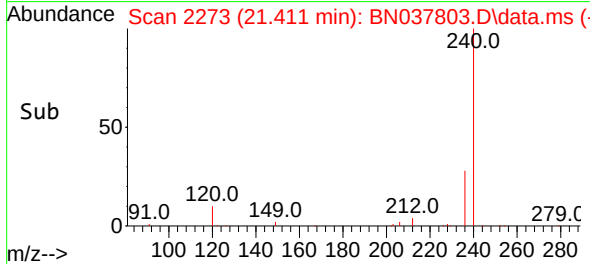
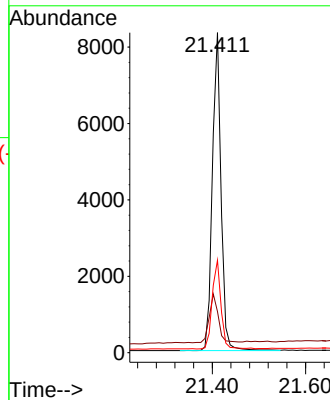
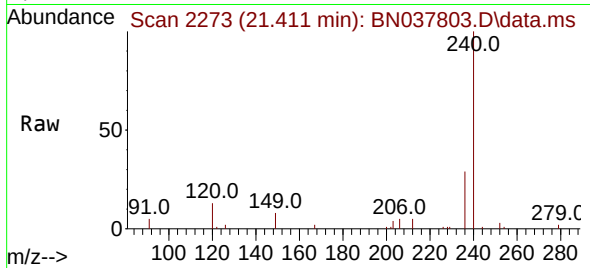




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

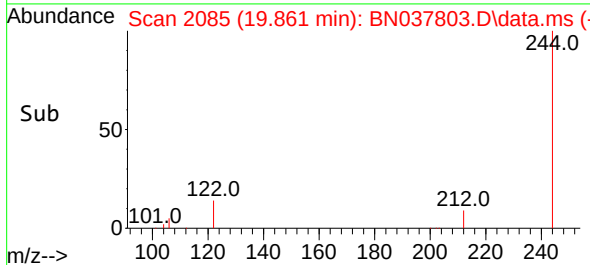
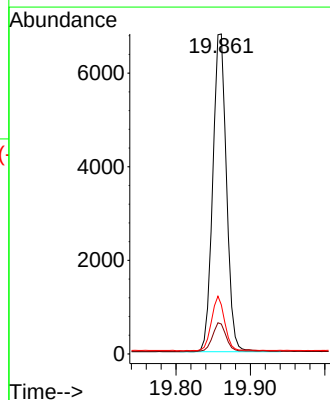
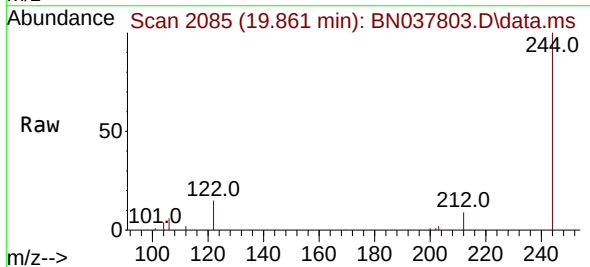
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

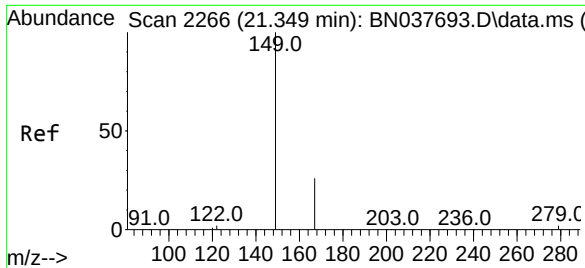
Tgt Ion:	240	Resp:	10811
Ion Ratio	Lower	Upper	
240	100		
120	12.9	9.2	13.8
236	28.9	22.6	33.8



#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:	244	Resp:	8702
Ion Ratio	Lower	Upper	
244	100		
212	9.4	7.5	11.3
122	15.3	13.2	19.8

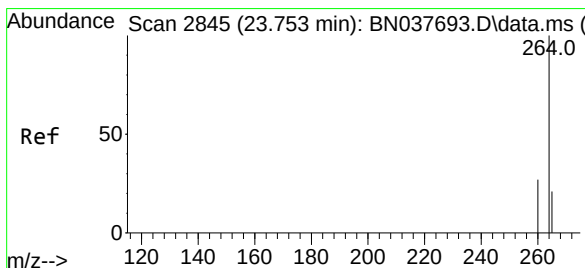
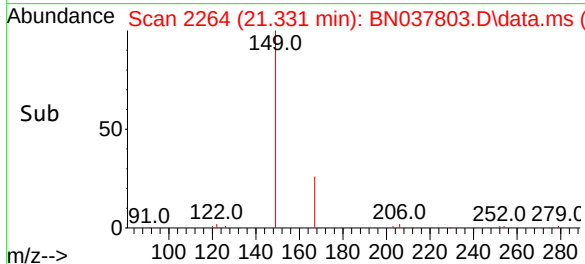
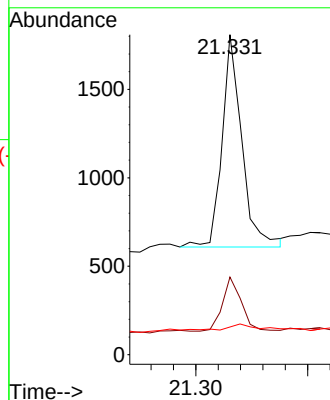
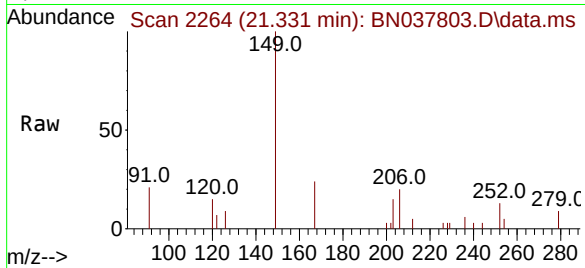




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.132 ng
RT: 21.331 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

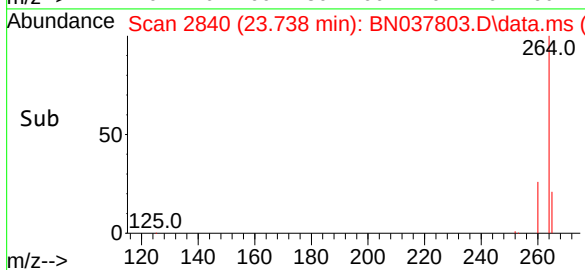
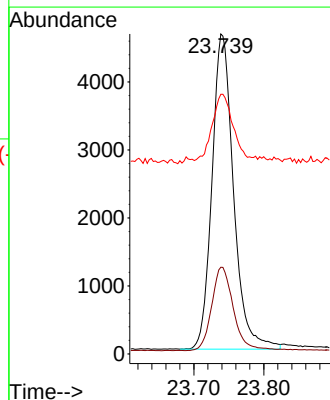
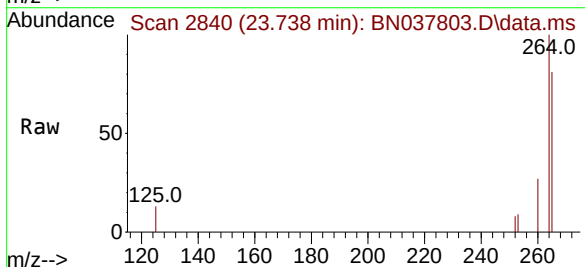
Instrument :
BNA_N
ClientSampleId :
DUP04-20250911

Tgt Ion:149 Resp: 1471
Ion Ratio Lower Upper
149 100
167 24.5 20.8 31.2
279 5.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037803.D
Acq: 19 Sep 2025 07:37

Tgt Ion:264 Resp: 9925
Ion Ratio Lower Upper
264 100
260 27.1 21.8 32.8
265 81.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-13	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
BN037804.D	1	09/16/25 09:39	09/19/25 08:13	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5970	7.833				
1146-65-2	Naphthalene-d8	16000	10.637				
15067-26-2	Acenaphthene-d10	7280	14.484				
1517-22-2	Phenanthrene-d10	14100	17.235				
1719-03-5	Chrysene-d12	13300	21.411				
1520-96-3	Perylene-d12	12200	23.742				

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\BN091825\
Data File : BN037804.D
Acq On : 19 Sep 2025 08:13
Operator : RC/JU
Sample : Q3097-13
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Quant Time: Sep 19 11:08:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

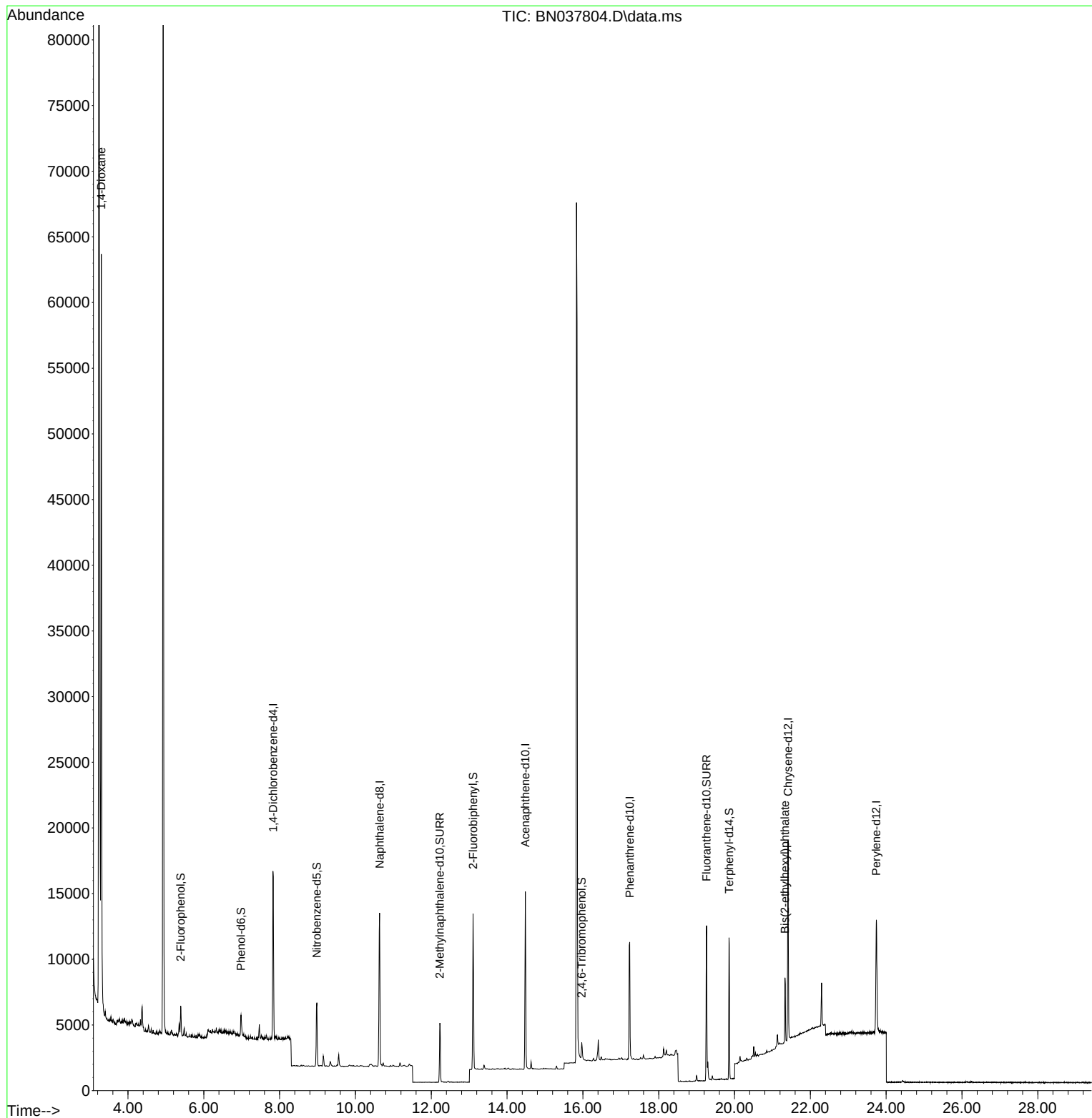
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5966	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15958	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7282	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14121	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13292	0.400	ng	0.00
35) Perylene-d12	23.742	264	12196	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1813	0.132	ng	0.00
5) Phenol-d6	6.981	99	1408	0.079	ng	0.00
8) Nitrobenzene-d5	8.982	82	3995	0.342	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6164	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	788	0.415	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9741	0.320	ng	-0.01
27) Fluoranthene-d10	19.262	212	13091	0.369	ng	0.00
31) Terphenyl-d14	19.857	244	9801	0.363	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	32500	5.230	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	4973	0.362	ng	100

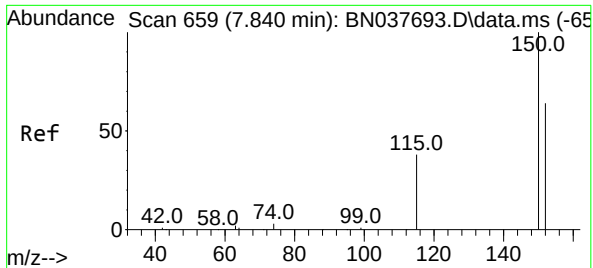
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037804.D
Acq On : 19 Sep 2025 08:13
Operator : RC/JU
Sample : Q3097-13
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Quant Time: Sep 19 11:08:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

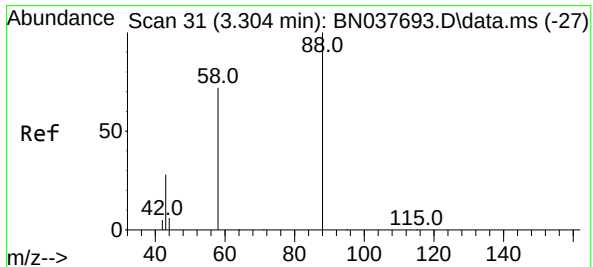
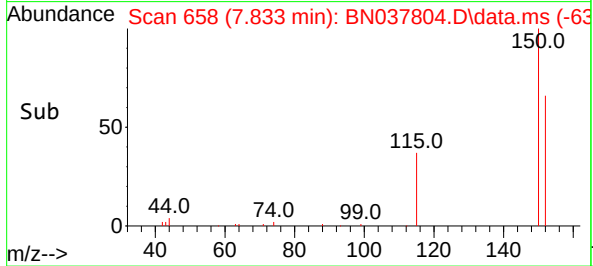
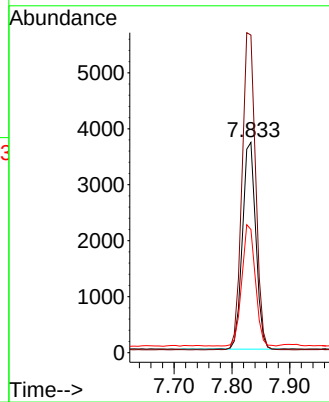
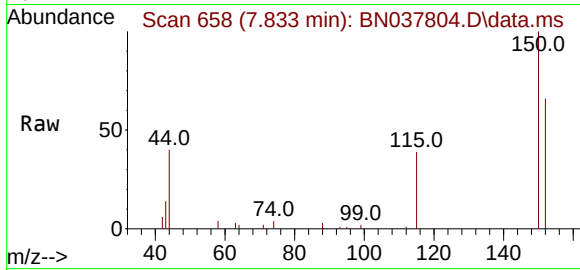




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

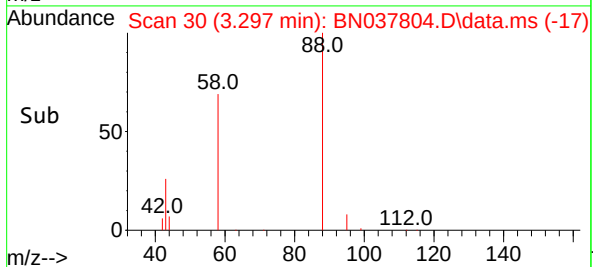
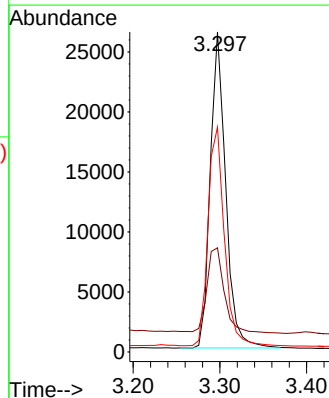
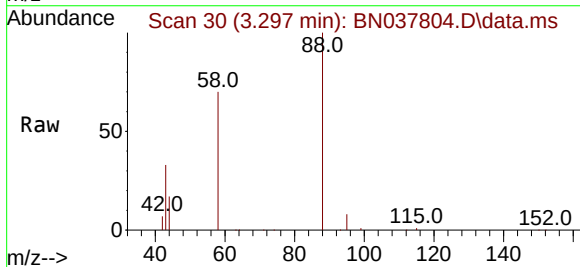
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

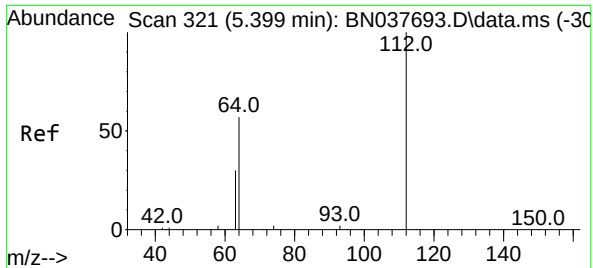
Tgt Ion:152 Resp: 5966
Ion Ratio Lower Upper
152 100
150 151.0 124.5 186.7
115 58.6 49.2 73.8



#2
1,4-Dioxane
Concen: 5.230 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion: 88 Resp: 32500
Ion Ratio Lower Upper
88 100
43 30.8 26.8 40.2
58 73.2 61.9 92.9

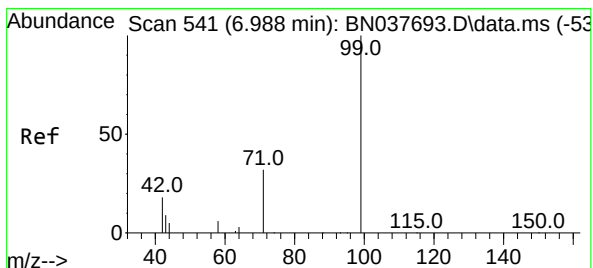
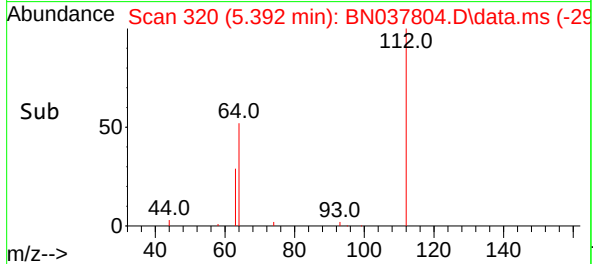
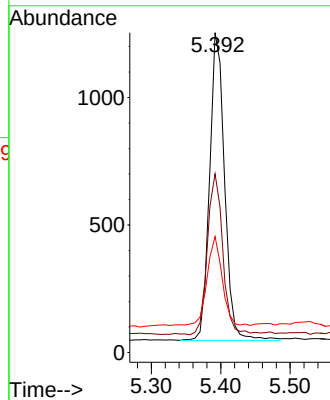
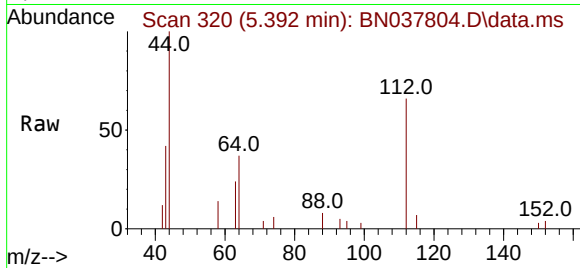




#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

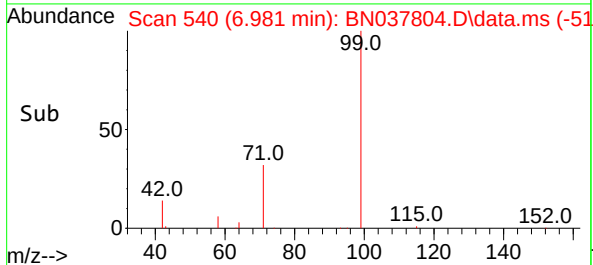
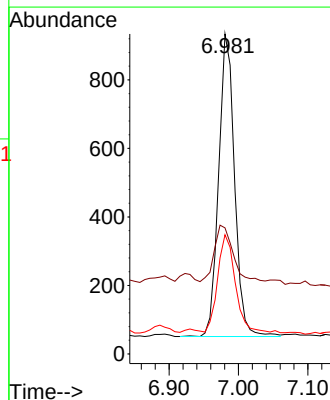
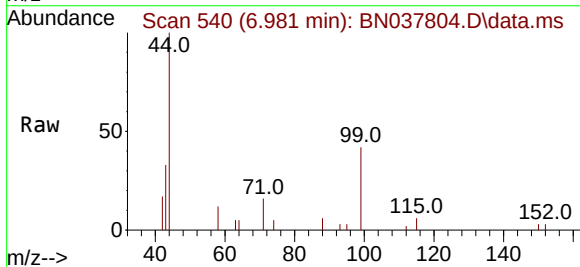
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

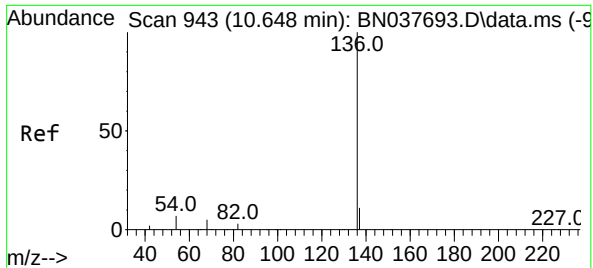
Tgt Ion:112 Resp: 1813
Ion Ratio Lower Upper
112 100
64 53.6 44.9 67.3
63 30.3 24.7 37.1



#5
Phenol-d6
Concen: 0.079 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion: 99 Resp: 1408
Ion Ratio Lower Upper
99 100
42 21.5 16.6 24.8
71 37.4 26.7 40.1

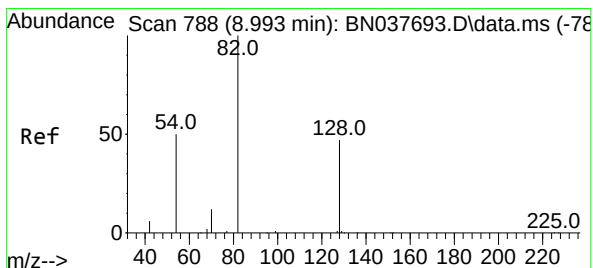
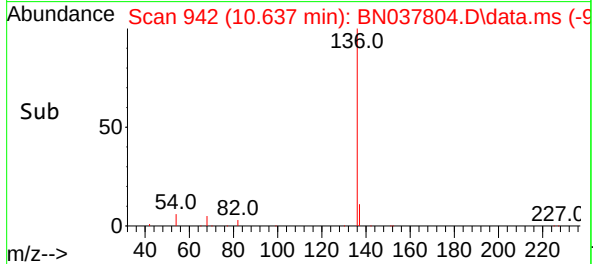
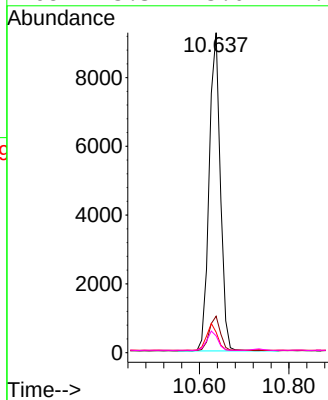
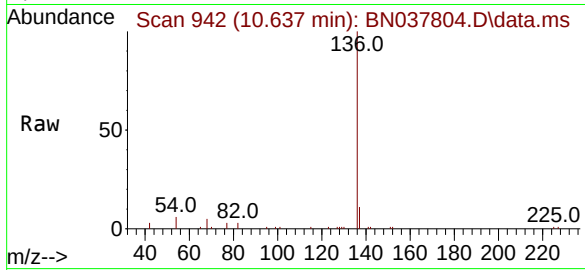




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

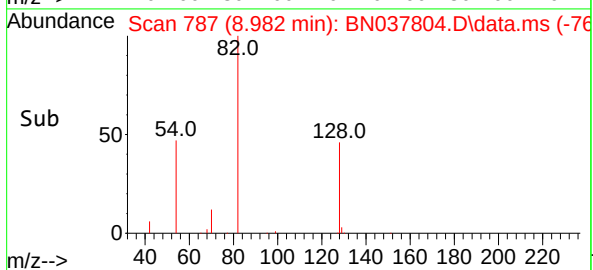
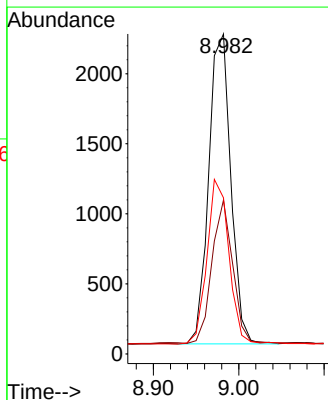
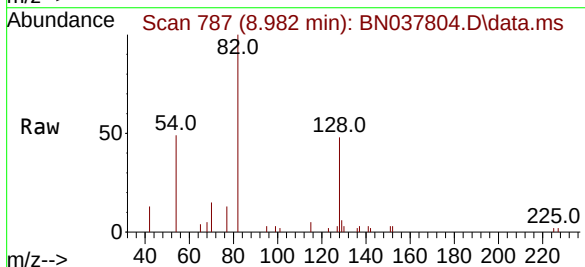
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

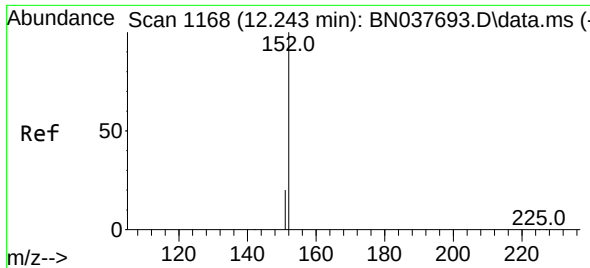
Tgt Ion:	136	Resp:	15958
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.4	6.3	9.5
68	5.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.342 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:	82	Resp:	3995
Ion	Ratio	Lower	Upper
82	100		
128	48.1	38.3	57.5
54	48.8	41.4	62.2

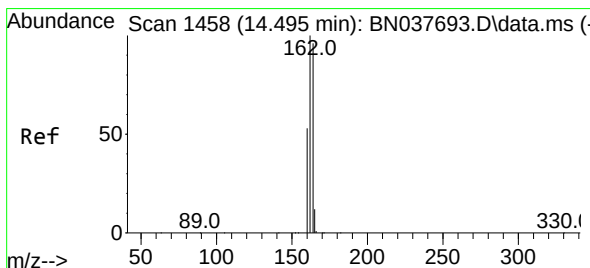
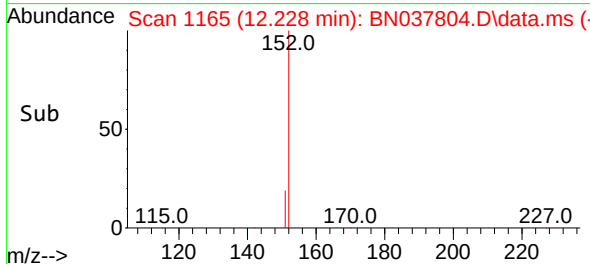
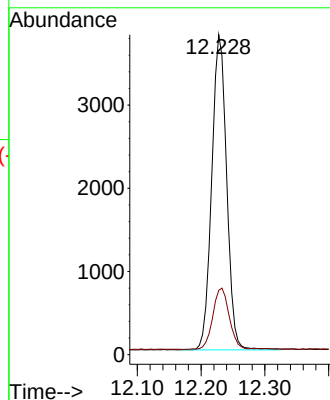
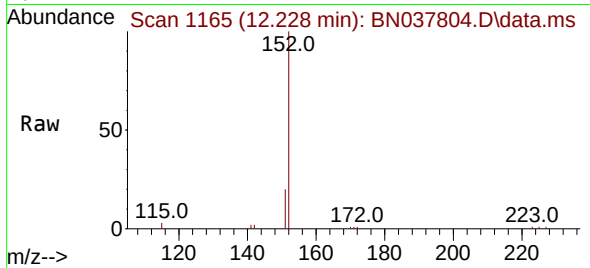




#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

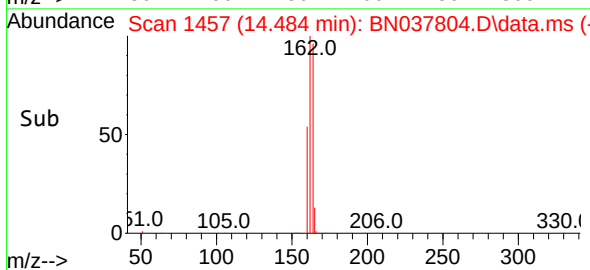
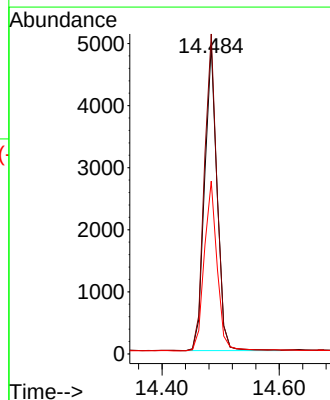
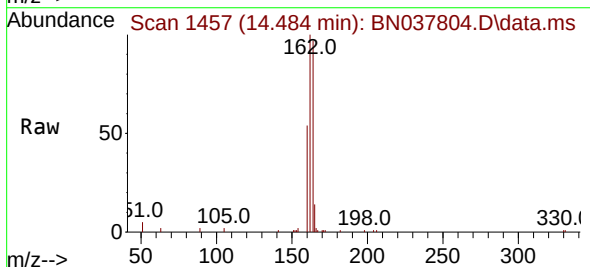
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

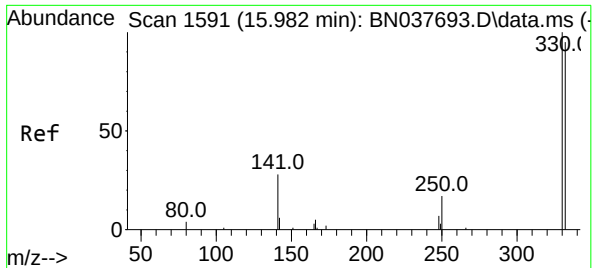
Tgt Ion:152 Resp: 6164
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:164 Resp: 7282
Ion Ratio Lower Upper
164 100
162 103.6 83.1 124.7
160 56.0 44.3 66.5

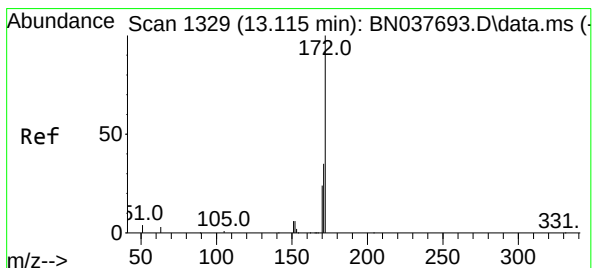
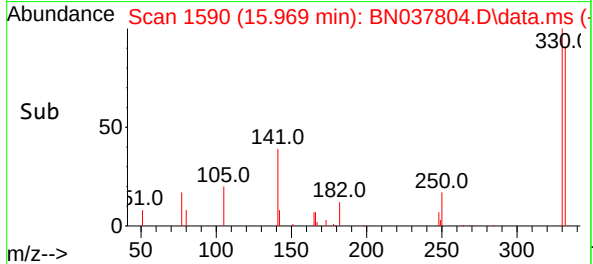
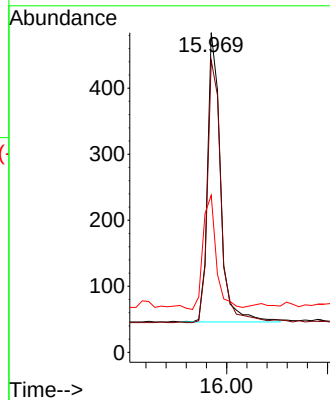
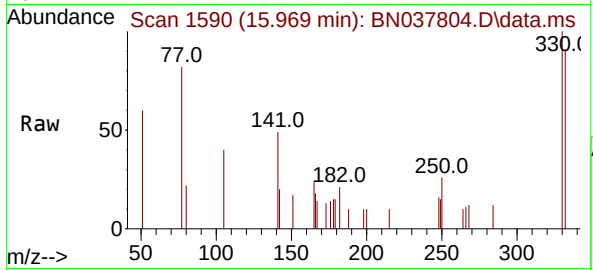




#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

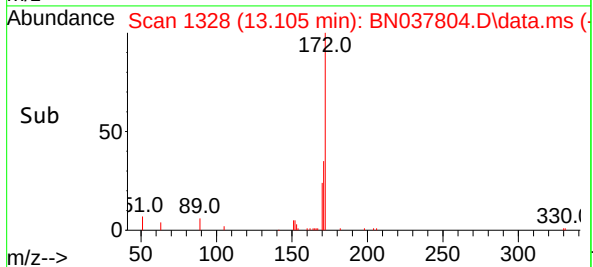
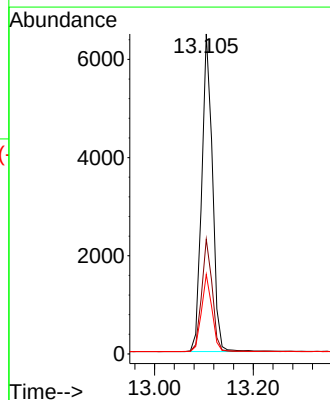
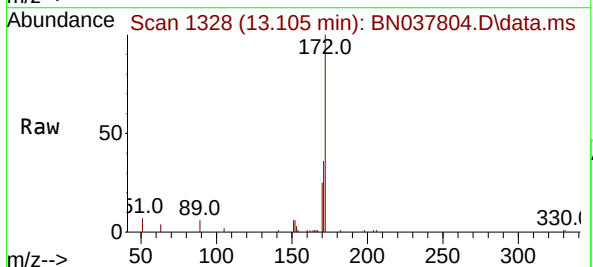
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

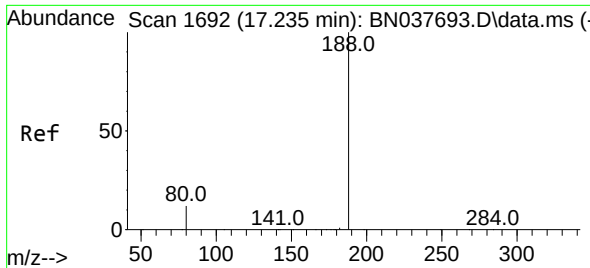
Tgt Ion:330 Resp: 788
Ion Ratio Lower Upper
330 100
332 94.9 75.3 112.9
141 40.2 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:172 Resp: 9741
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 24.9 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037804.D

Acq: 19 Sep 2025 08:13

Instrument :

BNA_N

ClientSampleId :

DUP05-20250911

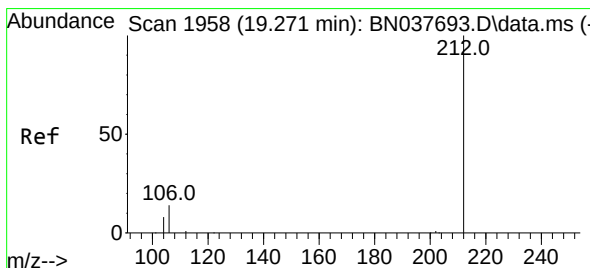
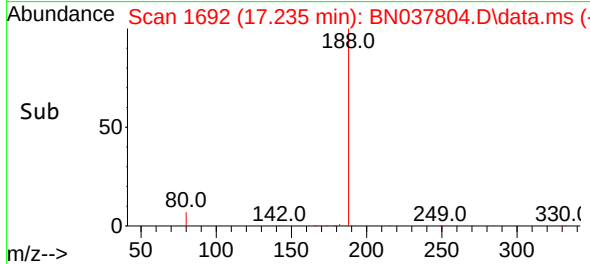
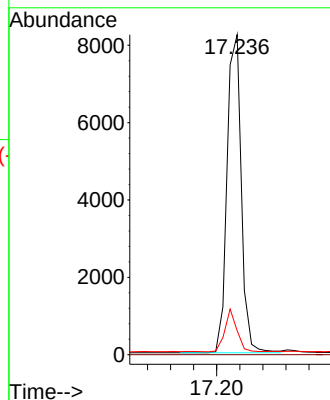
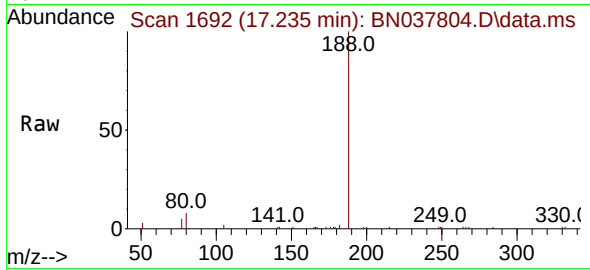
Tgt Ion:188 Resp: 14121

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037804.D

Acq: 19 Sep 2025 08:13

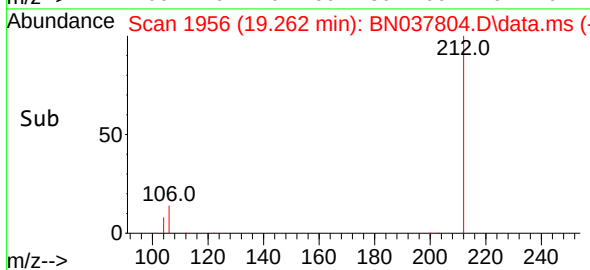
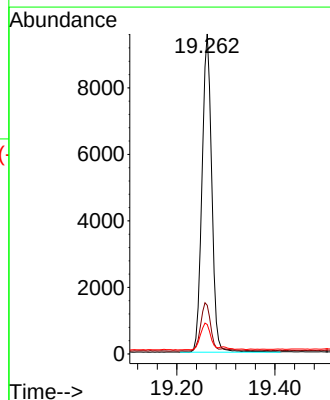
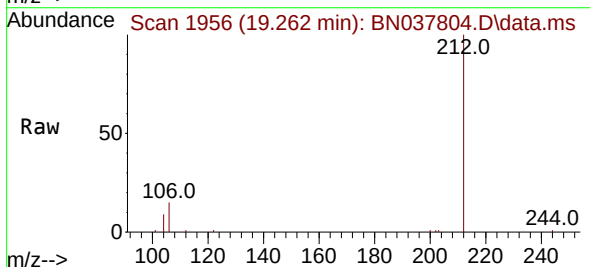
Tgt Ion:212 Resp: 13091

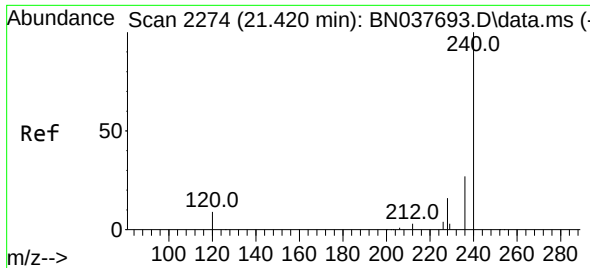
Ion Ratio Lower Upper

212 100

106 15.5 12.2 18.2

104 8.7 6.9 10.3

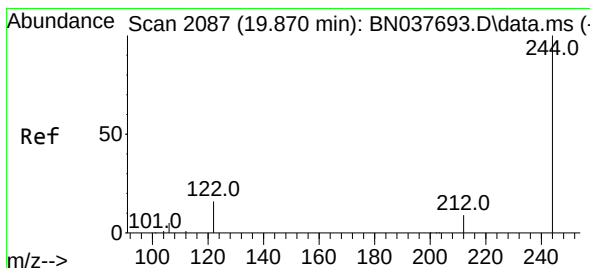
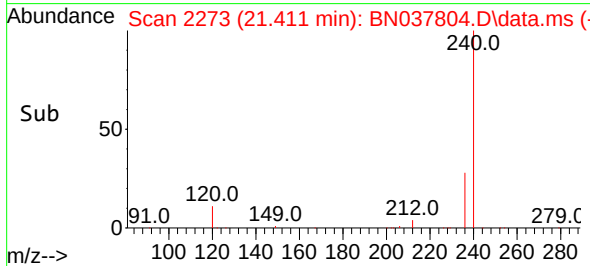
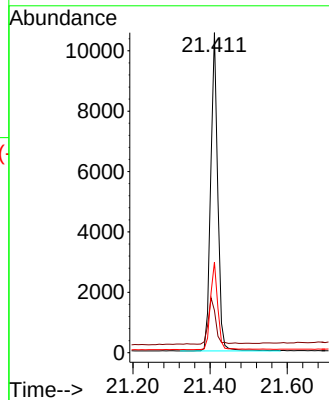
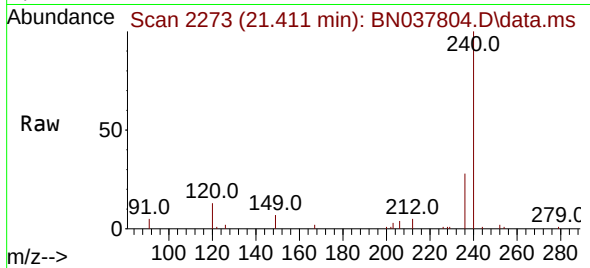




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

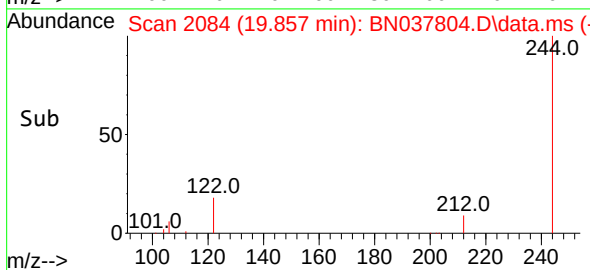
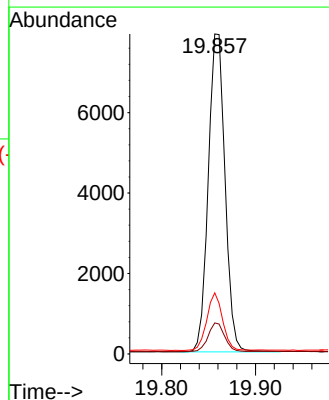
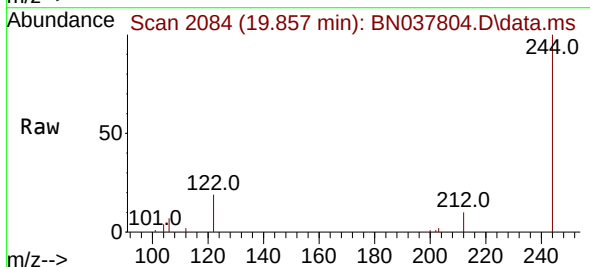
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

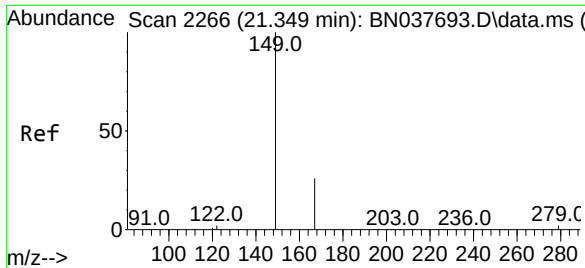
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.2	9.2	13.8
236	28.3	22.6	33.8



#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	19.1	13.2	19.8

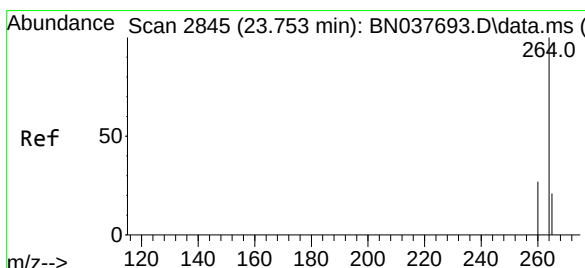
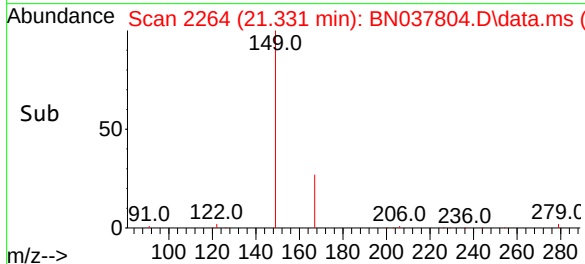
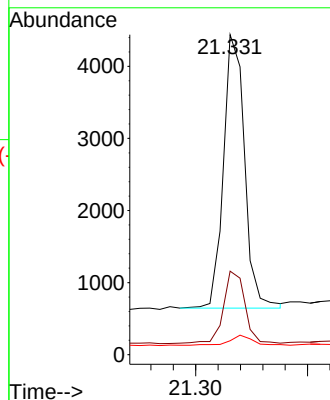
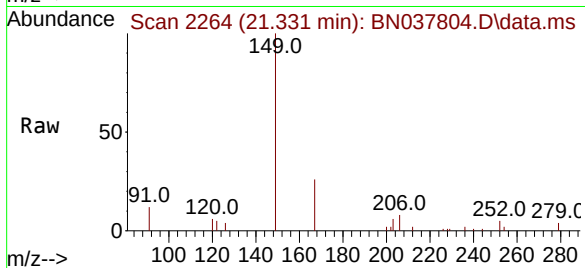




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.362 ng
RT: 21.331 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

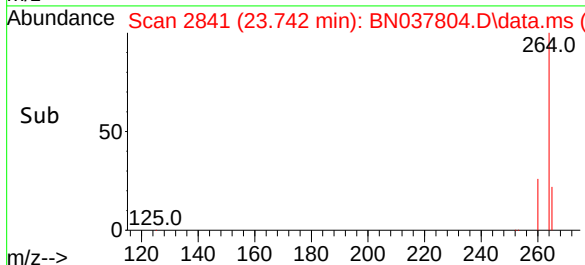
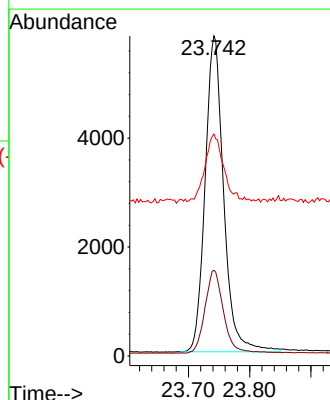
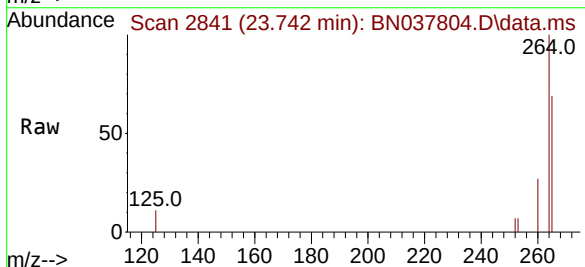
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911

Tgt Ion:149 Resp: 4973
Ion Ratio Lower Upper
149 100
167 26.2 20.8 31.2
279 3.8 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037804.D
Acq: 19 Sep 2025 08:13

Tgt Ion:264 Resp: 12196
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 69.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-13DL	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
BN037817.D	2	09/16/25 09:39	09/19/25 16:45	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		89%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5660	7.833				
1146-65-2	Naphthalene-d8	14800	10.637				
15067-26-2	Acenaphthene-d10	6210	14.484				
1517-22-2	Phenanthrene-d10	10700	17.236				
1719-03-5	Chrysene-d12	9110	21.411				
1520-96-3	Perylene-d12	8980	23.744				

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\BN091925\
Data File : BN037817.D
Acq On : 19 Sep 2025 16:45
Operator : RC/JU
Sample : Q3097-13DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Quant Time: Sep 19 17:15:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

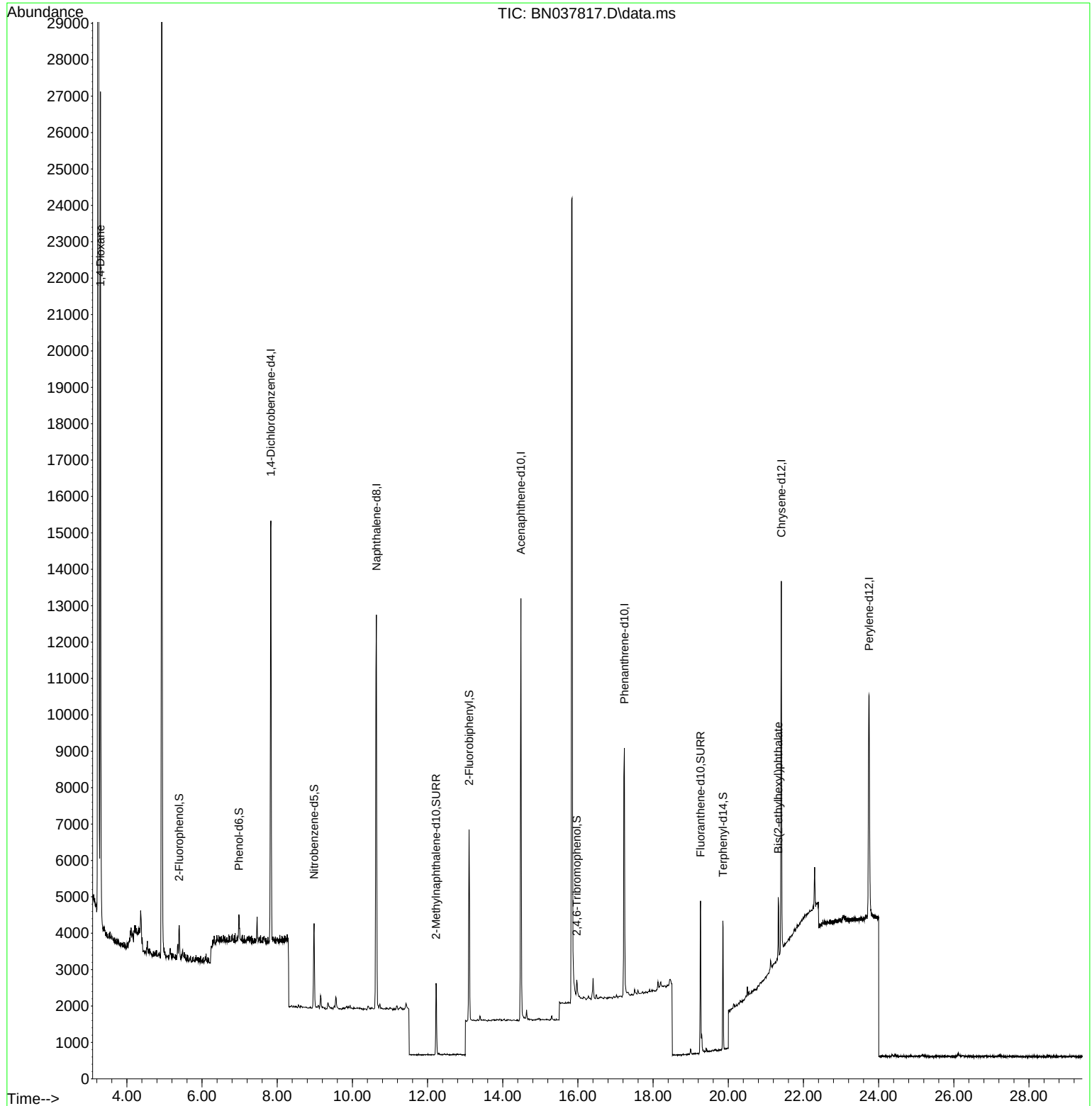
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5661	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	14750	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6209	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	10700	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9109	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	8982	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	744	0.057	ng	0.00
5) Phenol-d6	6.981	99	644	0.038	ng	0.00
8) Nitrobenzene-d5	8.982	82	1914	0.177	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	2732	0.140	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	299	0.185	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4337	0.167	ng	-0.01
27) Fluoranthene-d10	19.262	212	4509	0.168	ng	0.00
31) Terphenyl-d14	19.857	244	3298	0.178	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	13131	2.227	ng	95
34) Bis(2-ethylhexyl)phtha...	21.331	149	1758	0.187	ng	# 96

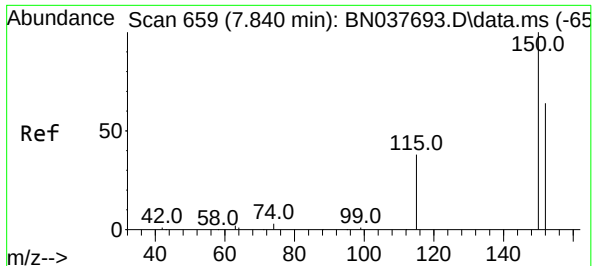
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037817.D
Acq On : 19 Sep 2025 16:45
Operator : RC/JU
Sample : Q3097-13DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

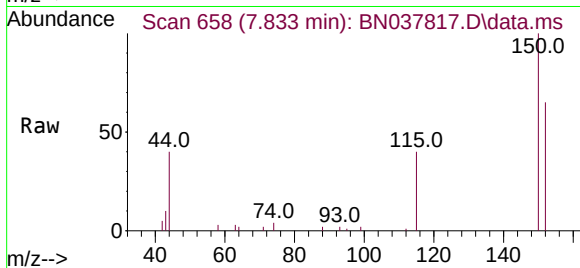
Quant Time: Sep 19 17:15:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



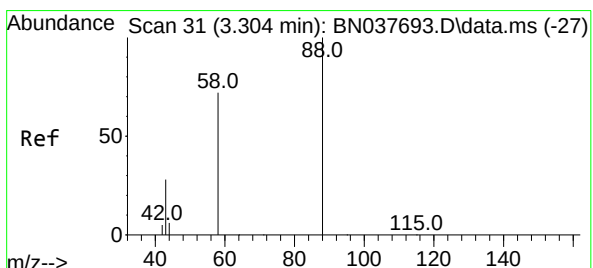
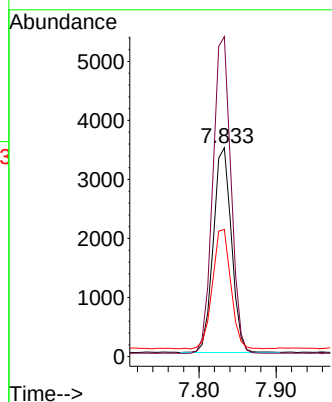
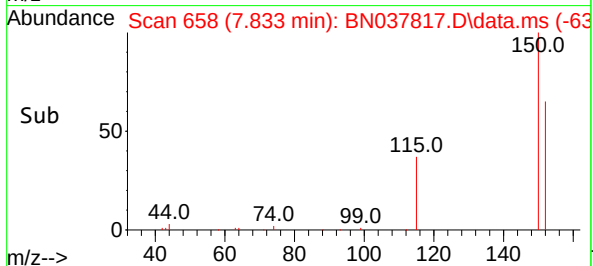


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037817.D
 Acq: 19 Sep 2025 16:45

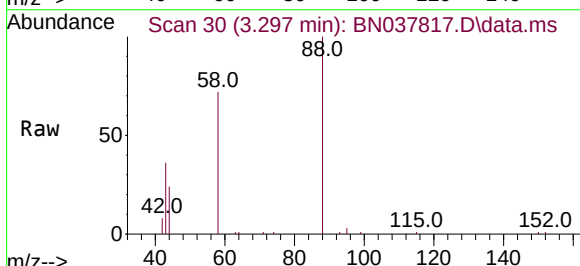
Instrument :
 BNA_N
 ClientSampleId :
 DUP05-20250911DL



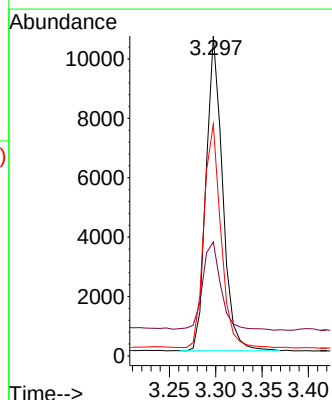
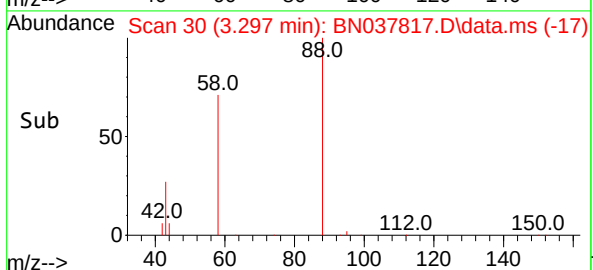
Tgt Ion:152 Resp: 5661
 Ion Ratio Lower Upper
 152 100
 150 153.2 124.5 186.7
 115 60.8 49.2 73.8

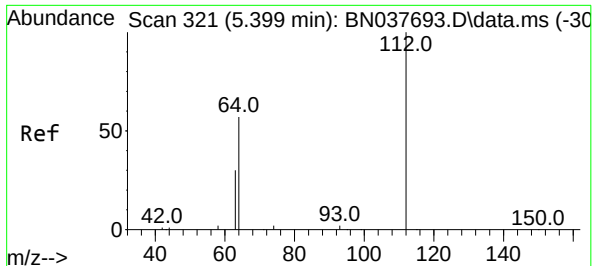


#2
 1,4-Dioxane
 Concen: 2.227 ng
 RT: 3.297 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037817.D
 Acq: 19 Sep 2025 16:45



Tgt Ion: 88 Resp: 13131
 Ion Ratio Lower Upper
 88 100
 43 31.5 26.8 40.2
 58 72.9 61.9 92.9

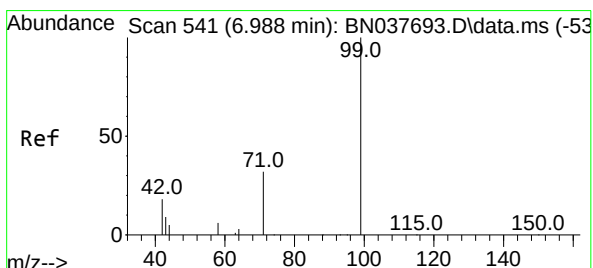
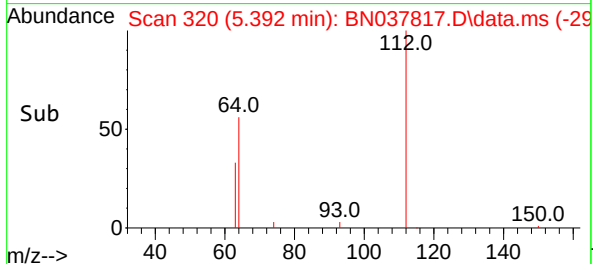
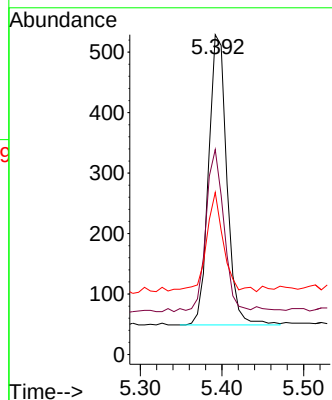
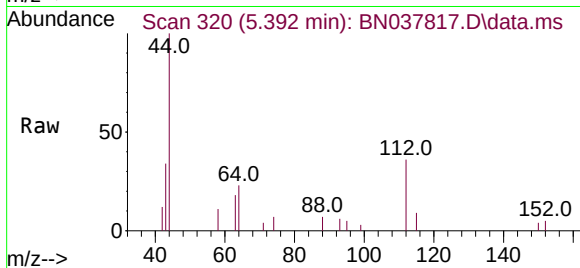




#4
2-Fluorophenol
Concen: 0.057 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

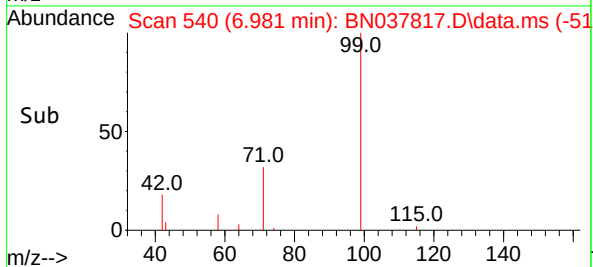
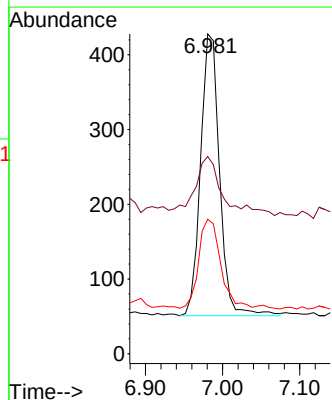
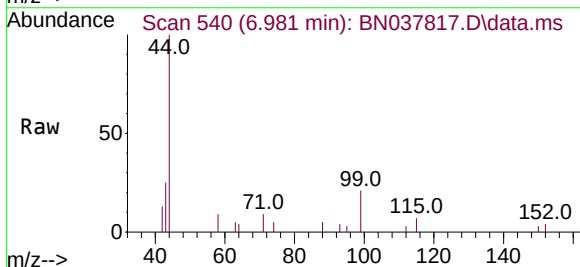
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

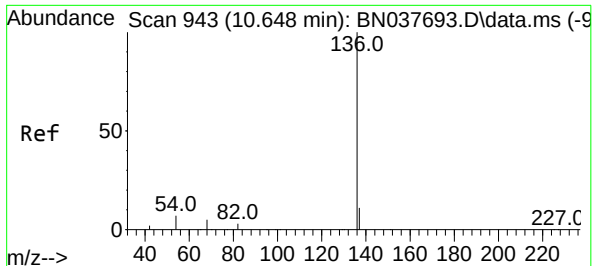
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	44.9	67.3
63	30.1	24.7	37.1



#5
Phenol-d6
Concen: 0.038 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion	Ratio	Lower	Upper
99	100		
42	30.3	16.6	24.8
71	36.2	26.7	40.1

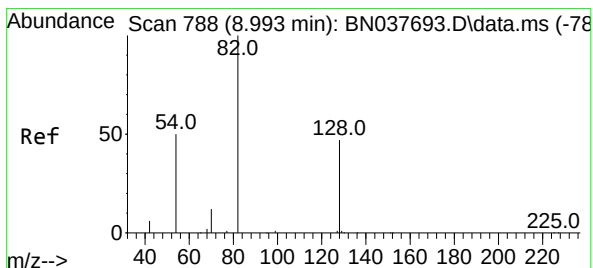
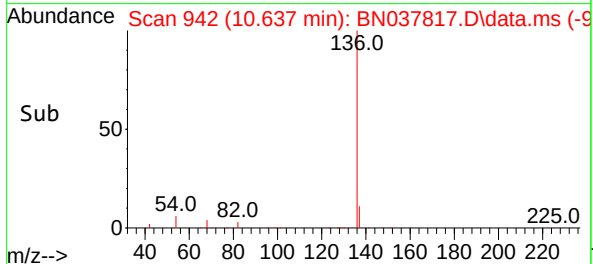
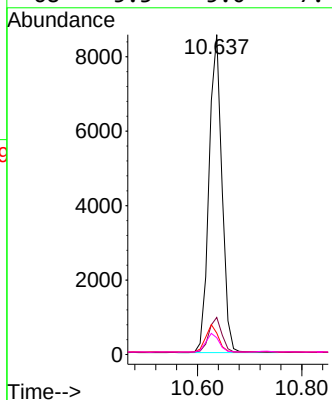
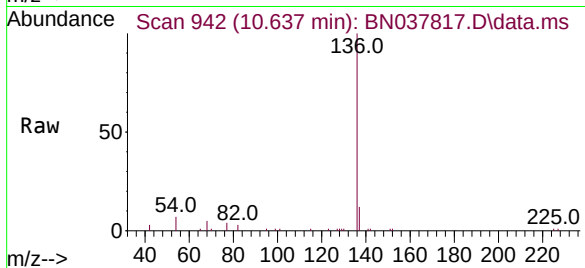




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

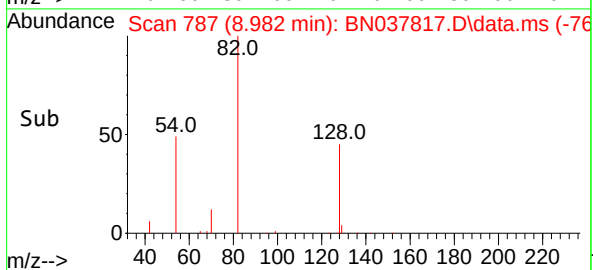
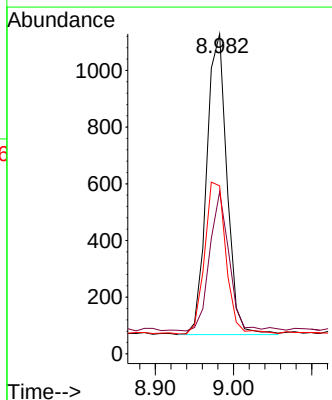
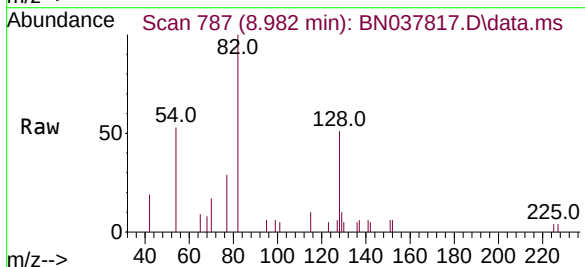
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

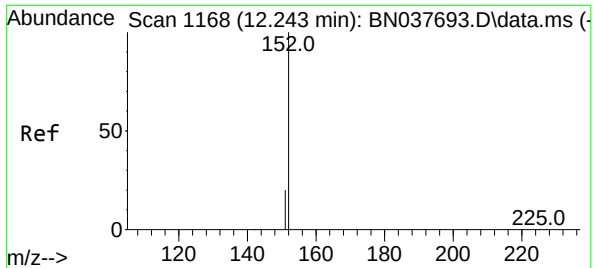
Tgt Ion:136	Resp:	14750
Ion Ratio	Lower	Upper
136	100	
137	11.6	9.1 13.7
54	6.7	6.3 9.5
68	5.3	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.177 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion: 82	Resp:	1914
Ion Ratio	Lower	Upper
82	100	
128	50.7	38.3 57.5
54	52.5	41.4 62.2

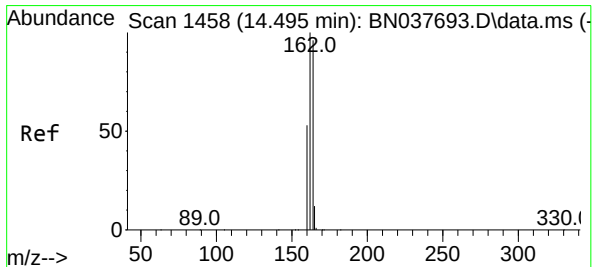
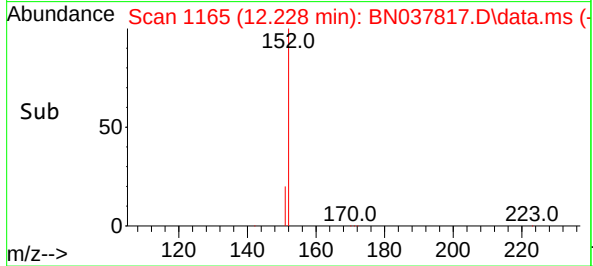
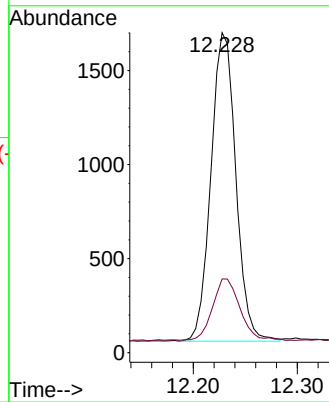
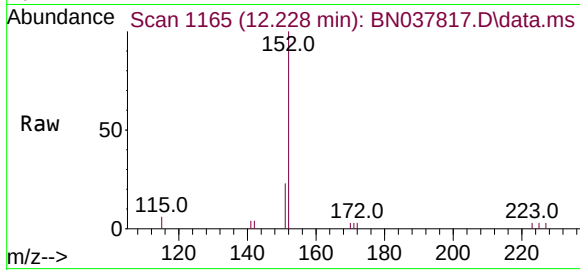




#11
2-Methylnaphthalene-d10
Concen: 0.140 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

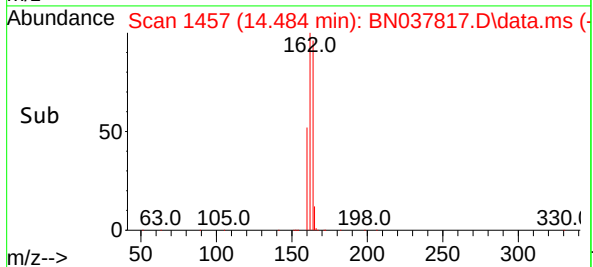
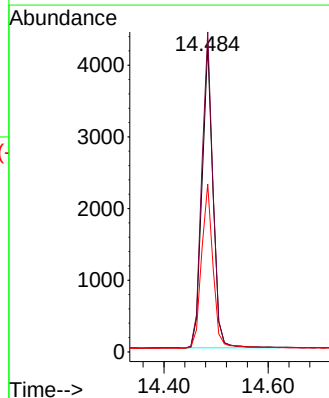
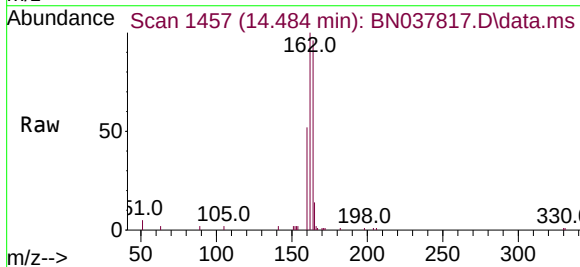
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

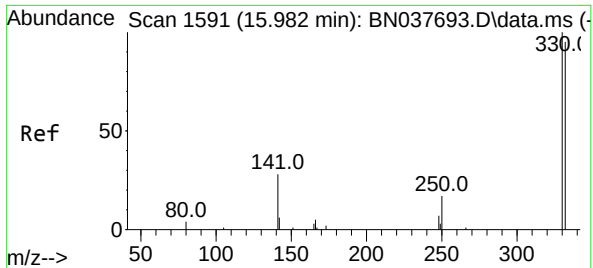
Tgt Ion:152 Resp: 2732
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:164 Resp: 6209
Ion Ratio Lower Upper
164 100
162 104.0 83.1 124.7
160 54.5 44.3 66.5



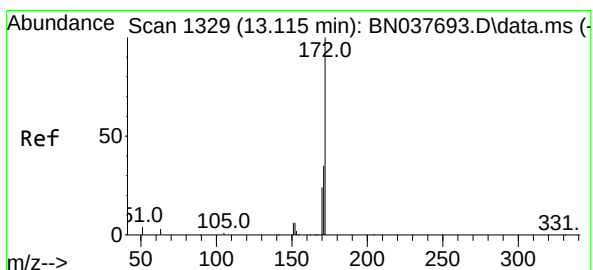
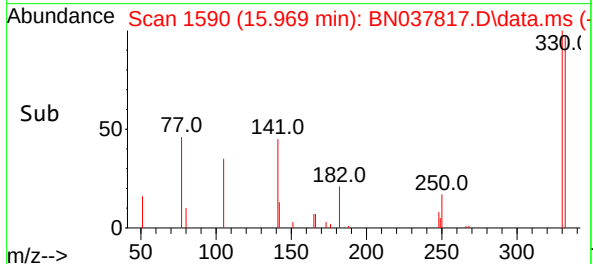
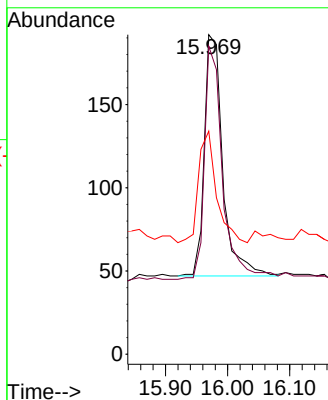
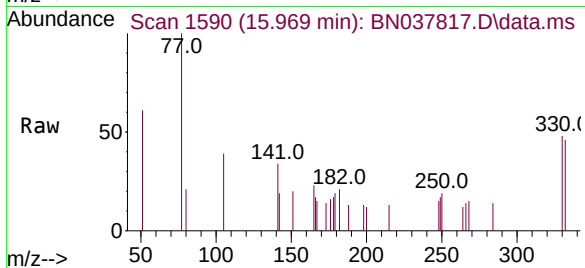


#14
2,4,6-Tribromophenol
Concen: 0.185 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion	330	Resp	299
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

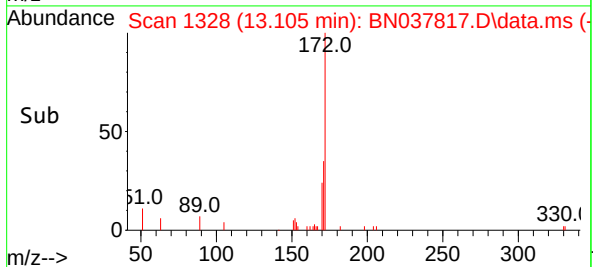
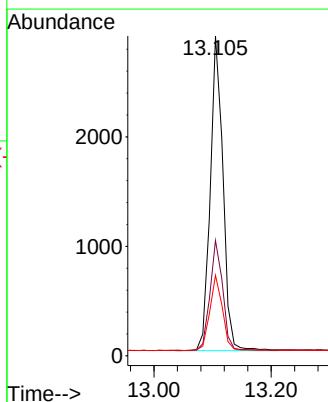
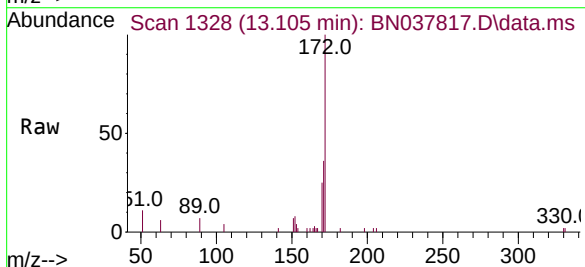
Ion	332	Ratio	Lower	Upper
332	96.7		75.3	112.9
141	44.5		35.0	52.4

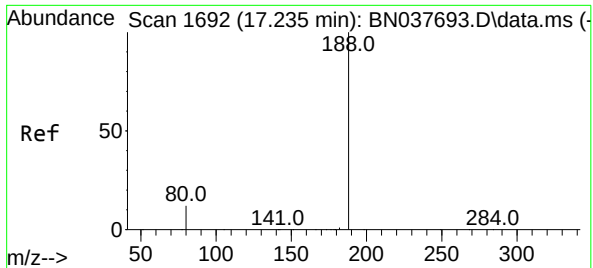


#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion	172	Resp	4337
Ion Ratio	100		
Lower	28.6		
Upper	43.0		

Ion	171	Ratio	Lower	Upper
171	36.1		28.6	43.0
170	25.2		19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037817.D

Acq: 19 Sep 2025 16:45

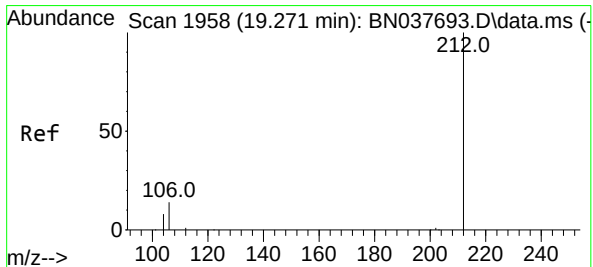
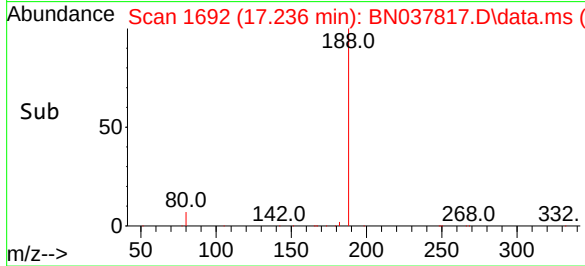
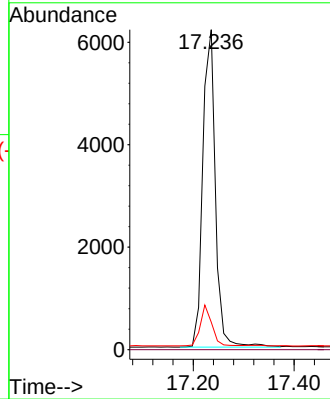
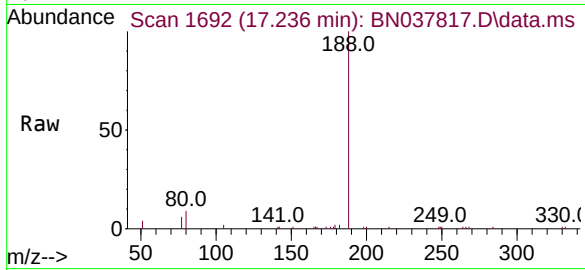
Instrument :

BNA_N

ClientSampleId :

DUP05-20250911DL

Tgt Ion:	188	Resp:	10700
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.6	10.6	15.8#



#27

Fluoranthene-d10

Concen: 0.168 ng

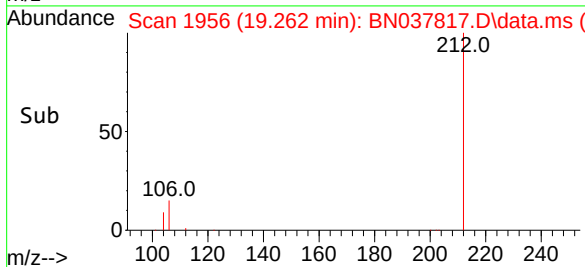
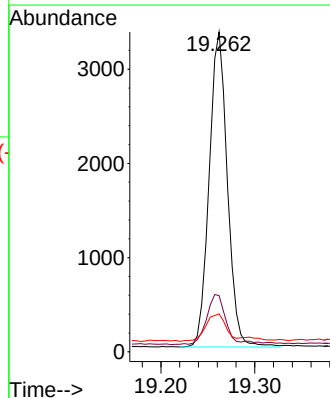
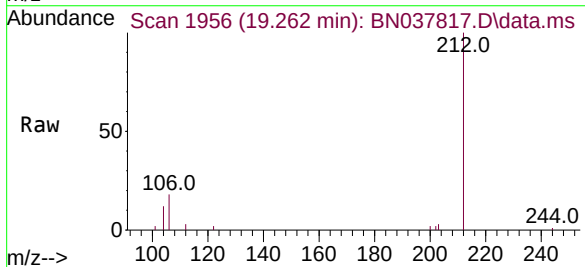
RT: 19.262 min Scan# 1956

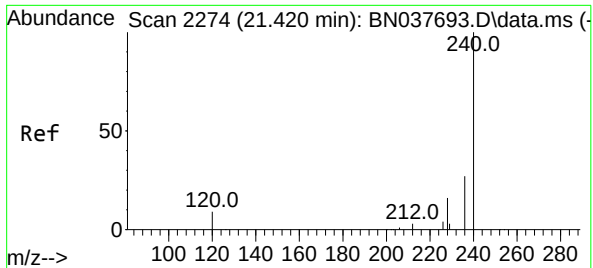
Delta R.T. -0.009 min

Lab File: BN037817.D

Acq: 19 Sep 2025 16:45

Tgt Ion:	212	Resp:	4509
Ion Ratio	Lower	Upper	
212	100		
106	16.3	12.2	18.2
104	9.7	6.9	10.3

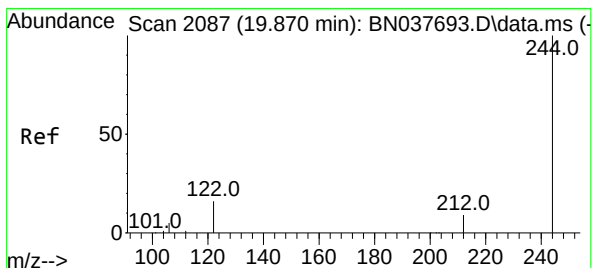
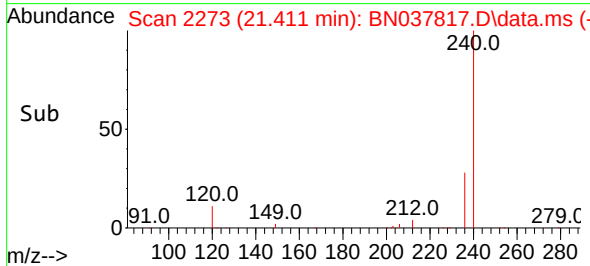
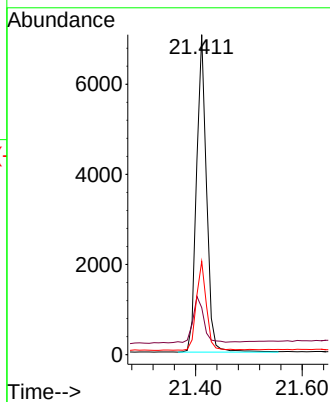
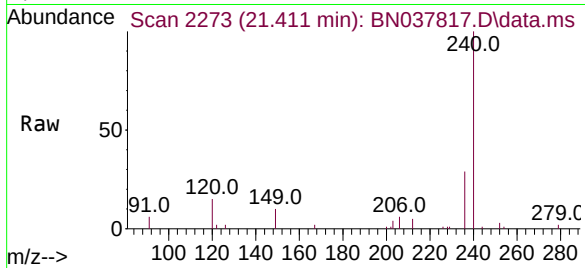




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

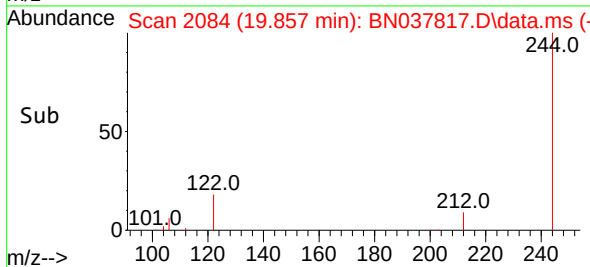
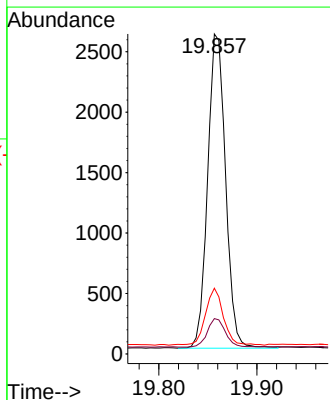
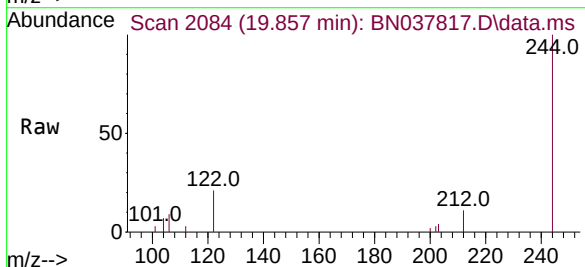
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

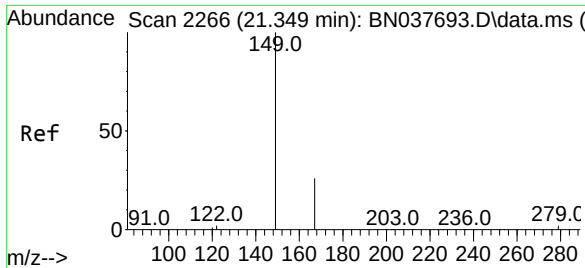
Tgt Ion:240 Resp: 9109
Ion Ratio Lower Upper
240 100
120 14.7 9.2 13.8#
236 29.1 22.6 33.8



#31
Terphenyl-d14
Concen: 0.178 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:244 Resp: 3298
Ion Ratio Lower Upper
244 100
212 11.0 7.5 11.3
122 20.5 13.2 19.8#

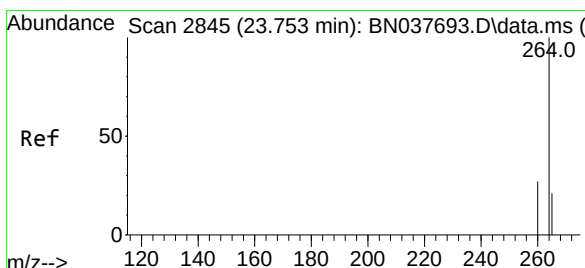
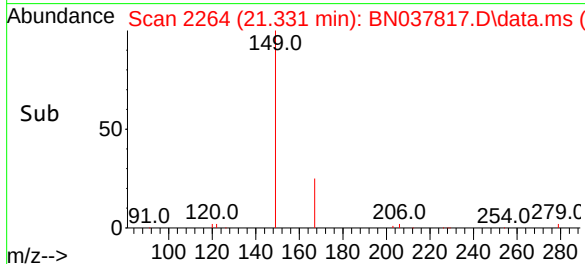
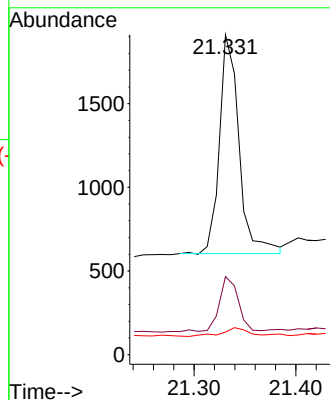
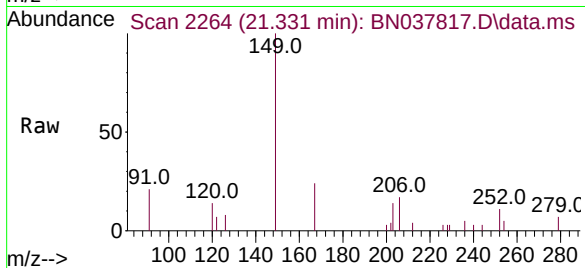




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.187 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

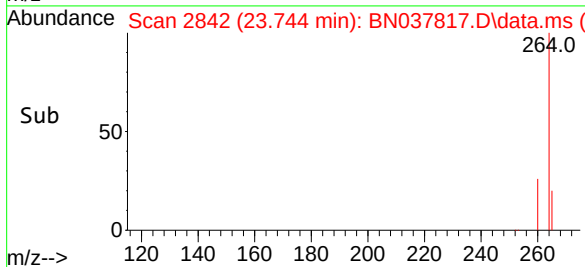
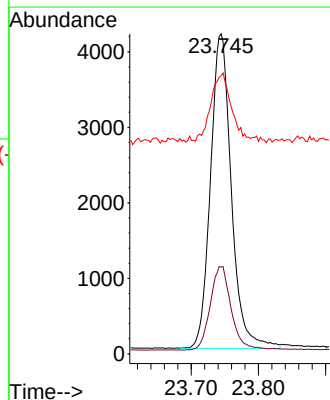
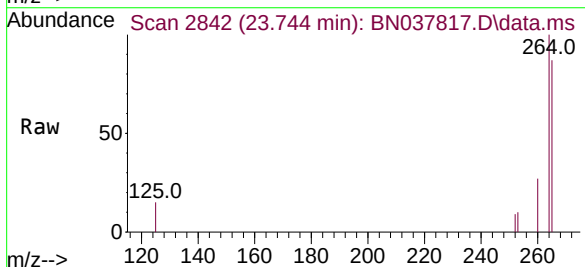
Instrument :
BNA_N
ClientSampleId :
DUP05-20250911DL

Tgt Ion:149 Resp: 1758
Ion Ratio Lower Upper
149 100
167 24.3 20.8 31.2
279 6.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037817.D
Acq: 19 Sep 2025 16:45

Tgt Ion:264 Resp: 8982
Ion Ratio Lower Upper
264 100
260 27.1 21.8 32.8
265 86.9 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-14	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
BN037805.D	1	09/16/25 09:39	09/19/25 08:49	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6730	7.833				
1146-65-2	Naphthalene-d8	16400	10.637				
15067-26-2	Acenaphthene-d10	7360	14.484				
1517-22-2	Phenanthrene-d10	13800	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11300	23.739				

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\BN091825\
Data File : BN037805.D
Acq On : 19 Sep 2025 08:49
Operator : RC/JU
Sample : Q3097-14
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

Quant Time: Sep 19 11:08:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

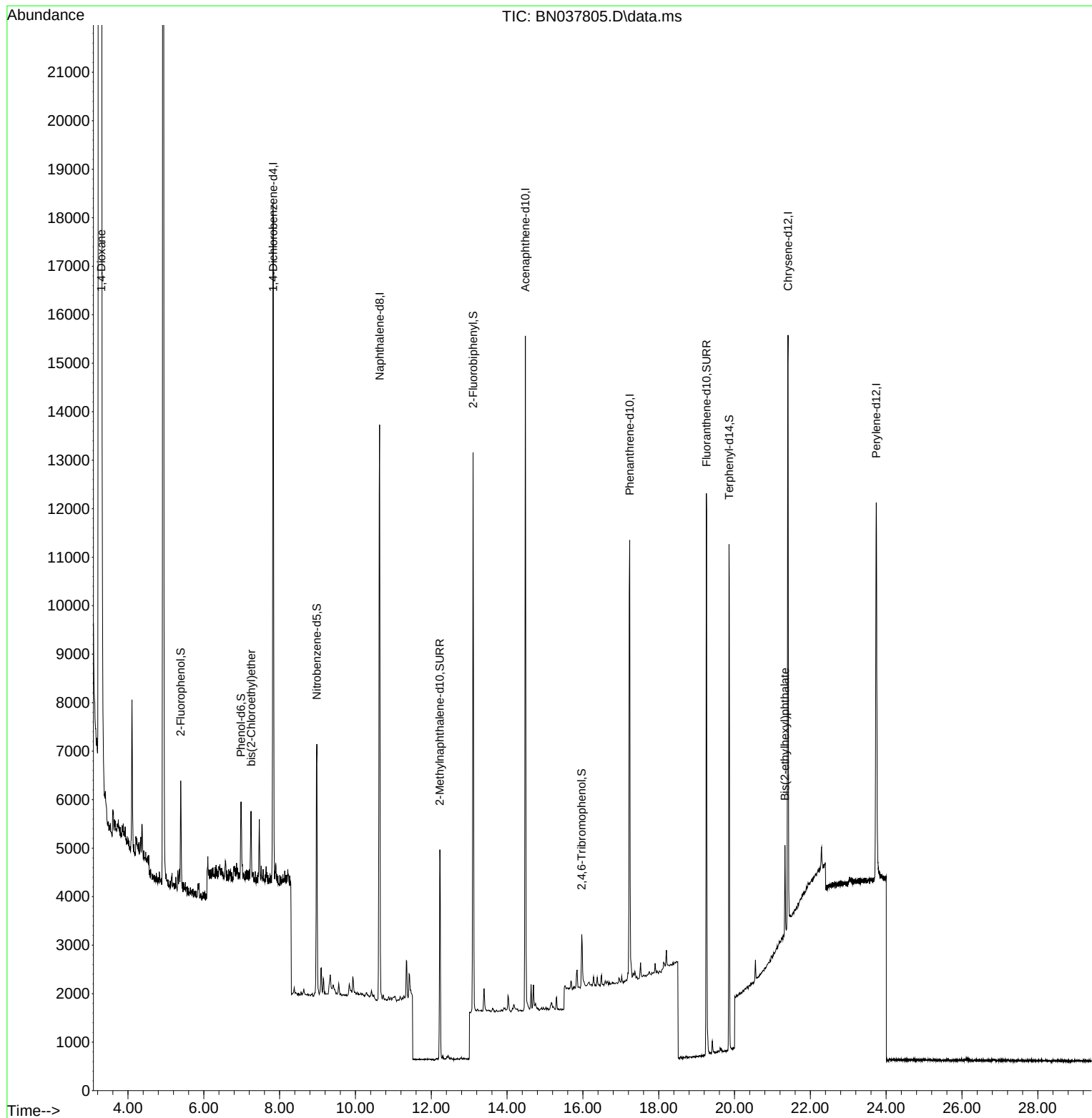
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6733	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	16370	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7362	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13809	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11974	0.400	ng	0.00
35) Perylene-d12	23.739	264	11341	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1751	0.113	ng	0.00
5) Phenol-d6	6.981	99	1476	0.074	ng	0.00
8) Nitrobenzene-d5	8.982	82	4216	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5815	0.268	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	737	0.384	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9254	0.301	ng	-0.01
27) Fluoranthene-d10	19.262	212	12855	0.371	ng	0.00
31) Terphenyl-d14	19.857	244	9718	0.400	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	21754	3.102	ng	95
6) bis(2-Chloroethyl)ether	7.248	93	1000	0.056	ng	93
34) Bis(2-ethylhexyl)phtha...	21.331	149	1657	0.134	ng	99

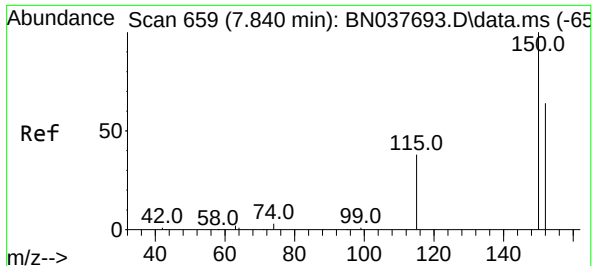
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037805.D
Acq On : 19 Sep 2025 08:49
Operator : RC/JU
Sample : Q3097-14
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

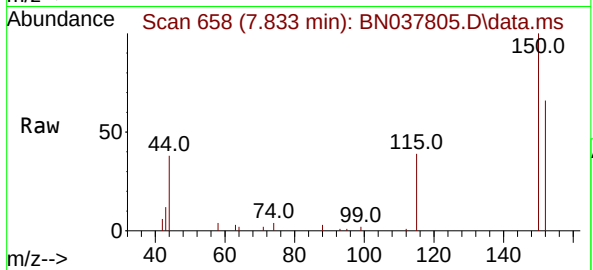
Quant Time: Sep 19 11:08:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



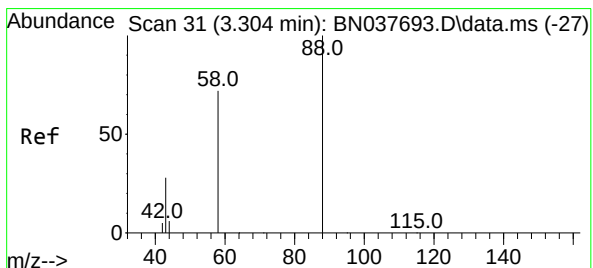
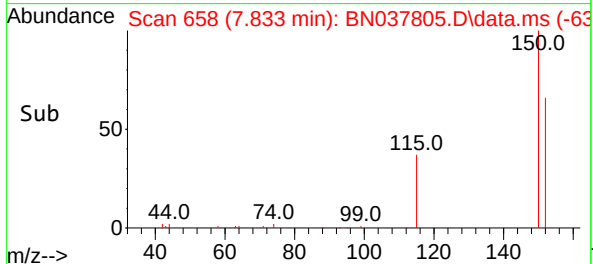
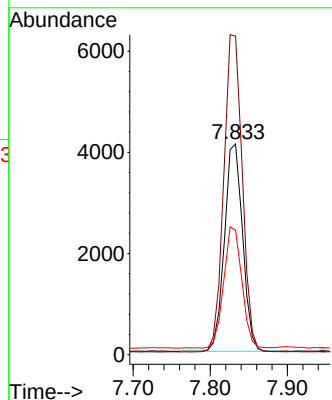


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

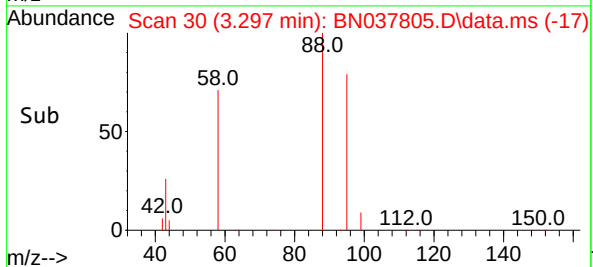
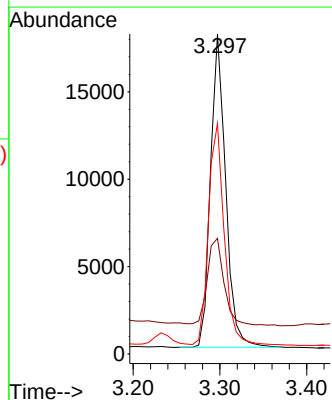
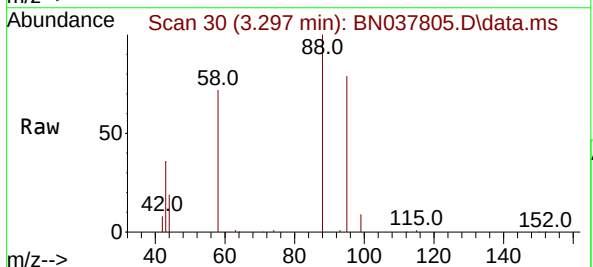


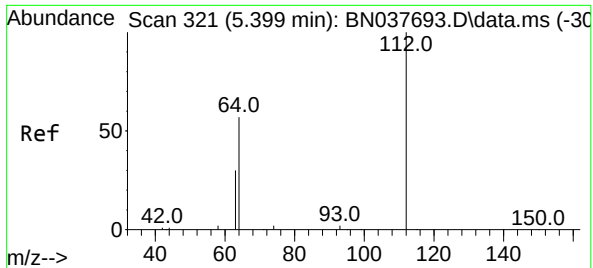
Tgt Ion: 152 Resp: 6733
Ion Ratio Lower Upper
152 100
150 151.2 124.5 186.7
115 59.0 49.2 73.8



#2
1,4-Dioxane
Concen: 3.102 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion: 88 Resp: 21754
Ion Ratio Lower Upper
88 100
43 31.4 26.8 40.2
58 73.0 61.9 92.9

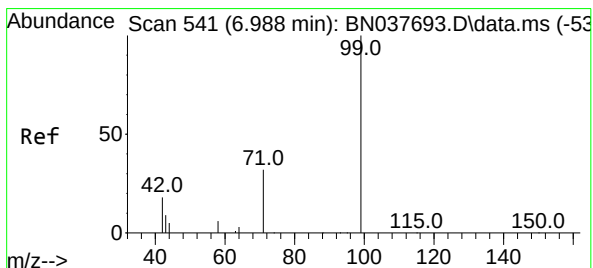
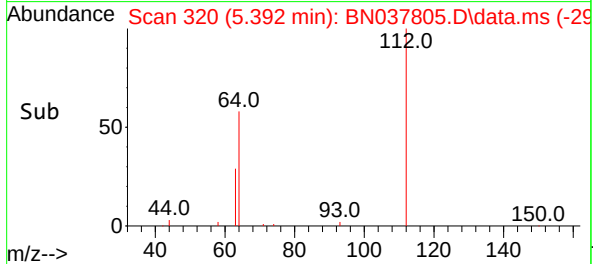
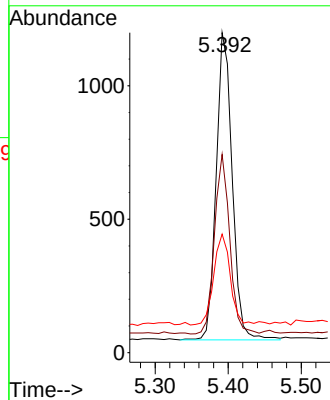
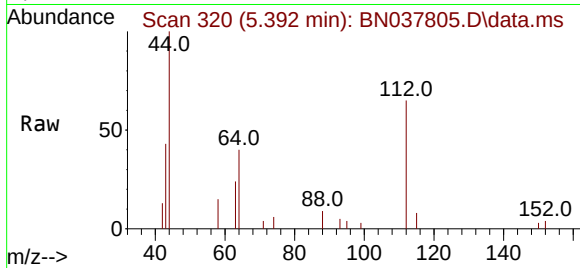




#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

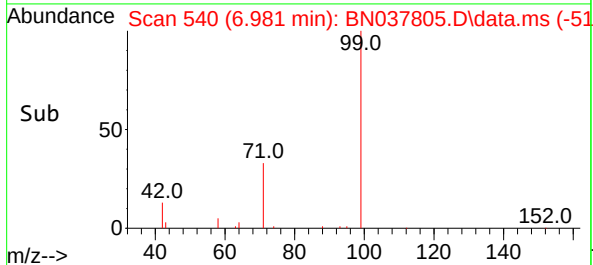
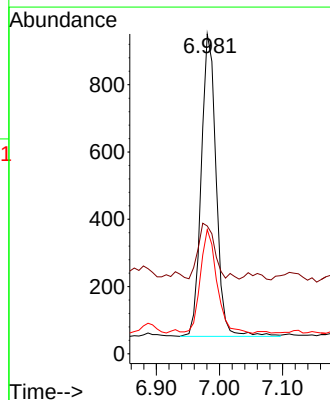
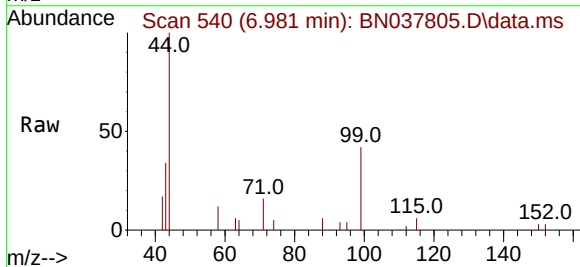
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

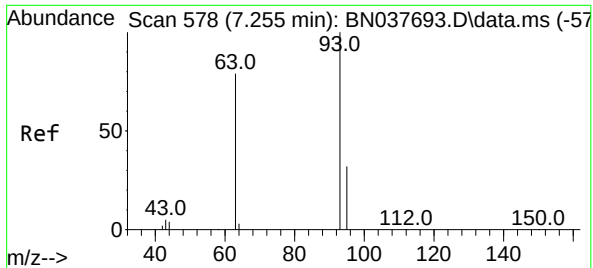
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	30.4	24.7	37.1



#5
Phenol-d6
Concen: 0.074 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.6	24.8
71	37.9	26.7	40.1

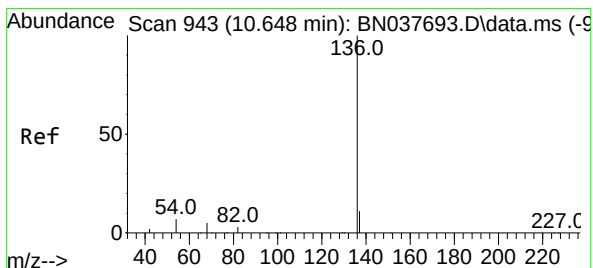
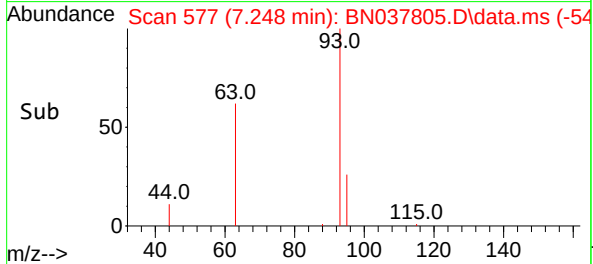
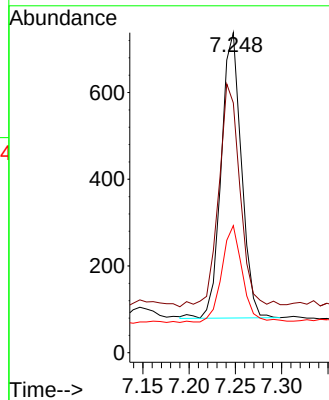
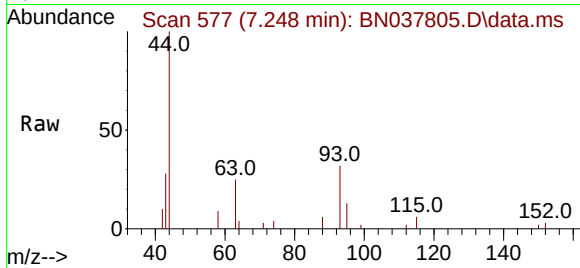




#6
bis(2-Chloroethyl)ether
Concen: 0.056 ng
RT: 7.248 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

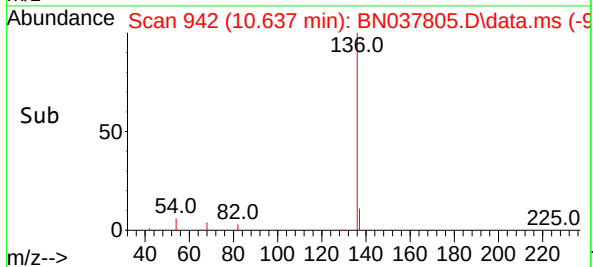
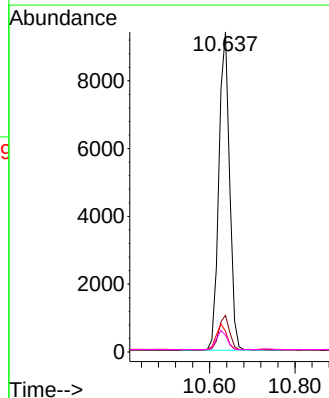
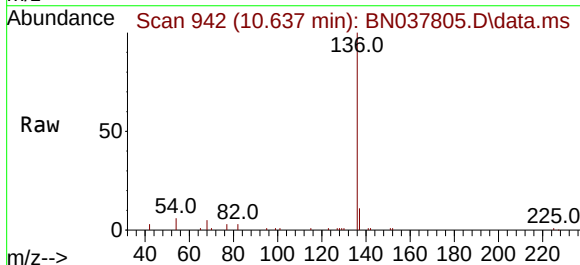
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

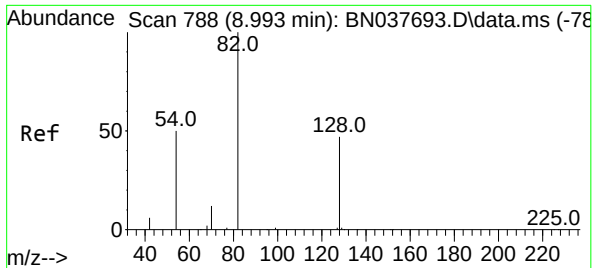
Tgt Ion:	93	Resp:	1000
Ion	Ratio	Lower	Upper
93	100		
63	82.8	60.6	90.8
95	35.4	26.0	39.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:	136	Resp:	16370
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.4	6.3	9.5
68	5.3	5.0	7.4

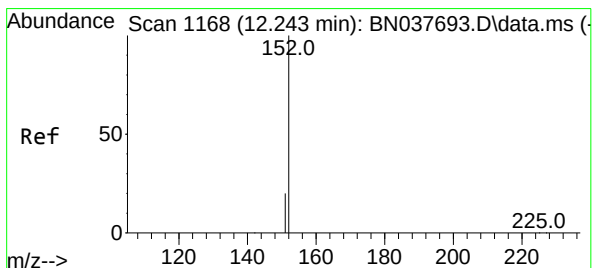
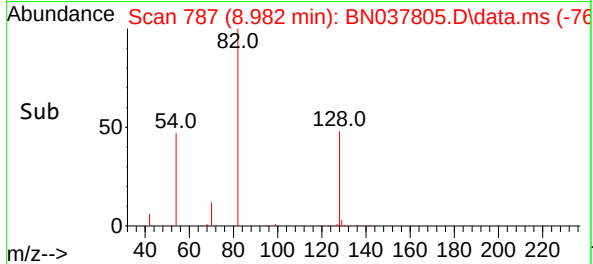
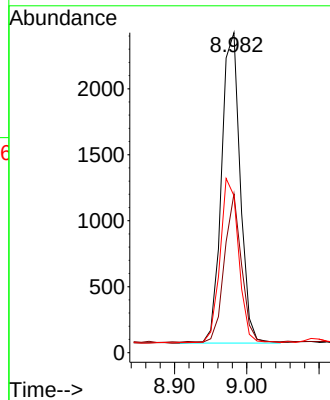
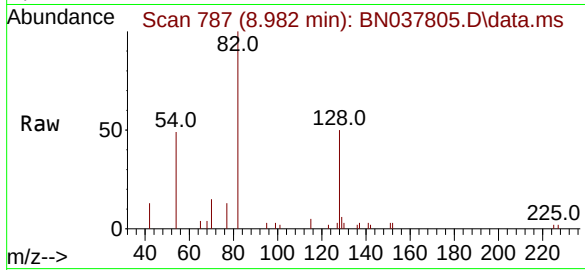




#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

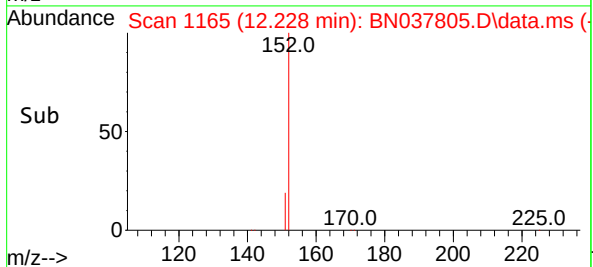
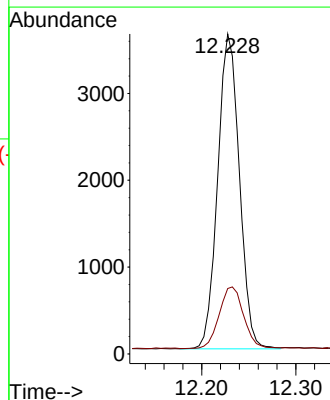
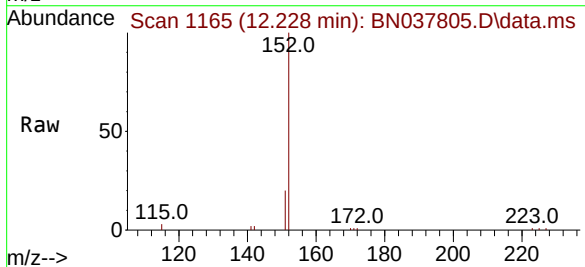
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

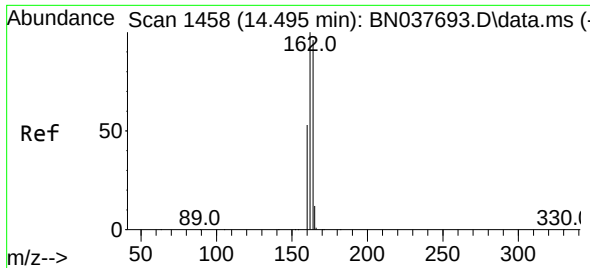
Tgt Ion: 82 Resp: 4216
Ion Ratio Lower Upper
82 100
128 49.6 38.3 57.5
54 49.0 41.4 62.2



#11
2-Methylnaphthalene-d10
Concen: 0.268 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion: 152 Resp: 5815
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6

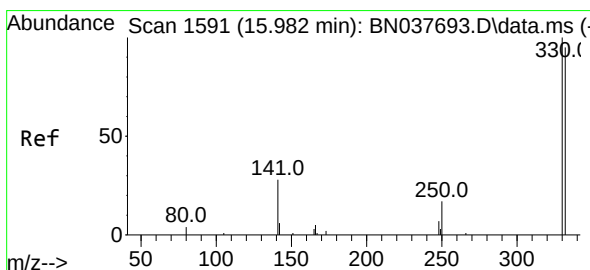
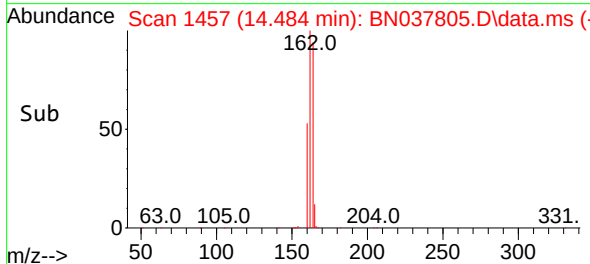
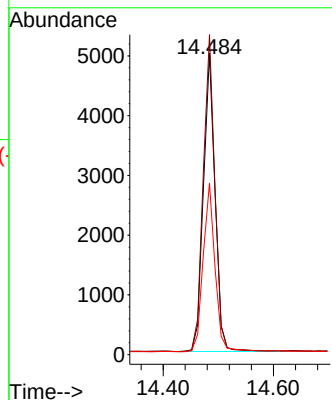
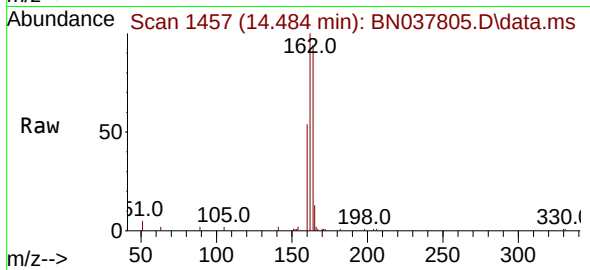




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

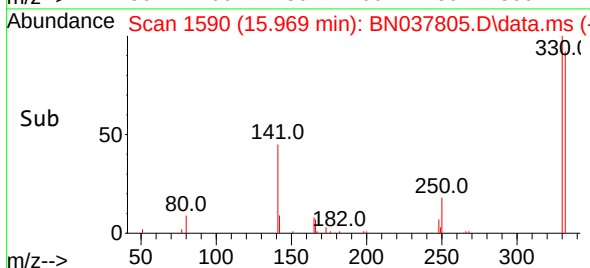
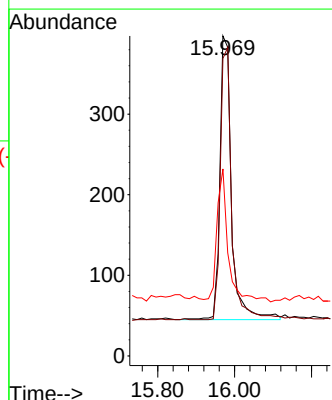
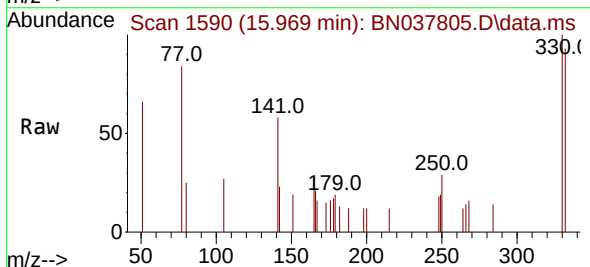
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

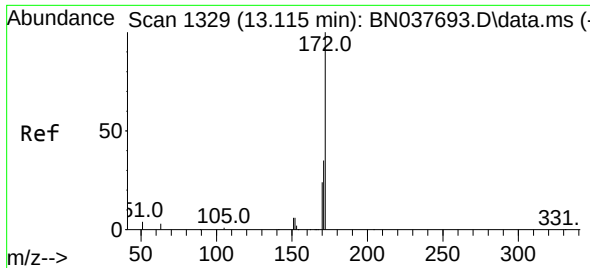
Tgt Ion:164 Resp: 7362
Ion Ratio Lower Upper
164 100
162 106.2 83.1 124.7
160 57.0 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:330 Resp: 737
Ion Ratio Lower Upper
330 100
332 93.5 75.3 112.9
141 45.2 35.0 52.4

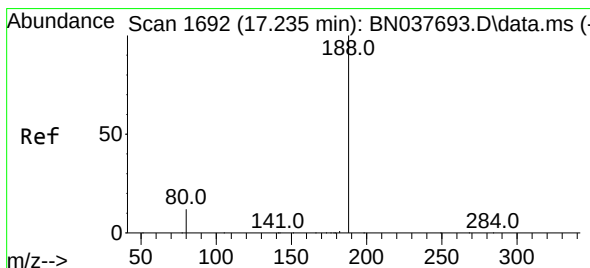
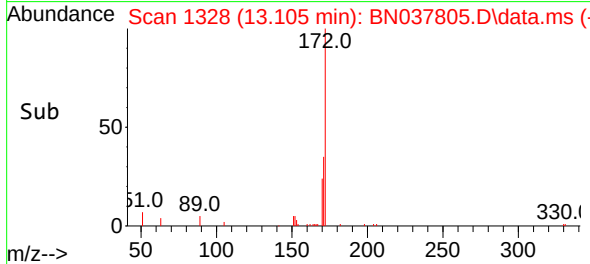
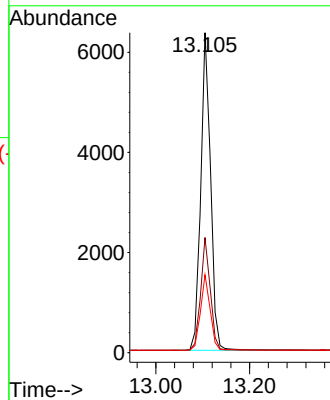
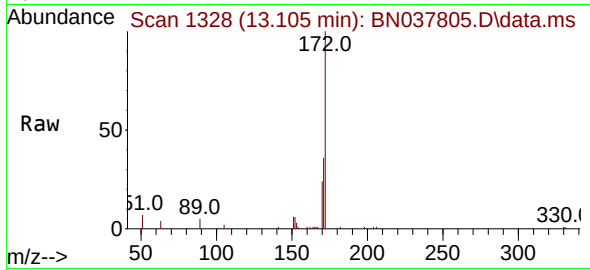




#15
2-Fluorobiphenyl
Concen: 0.301 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

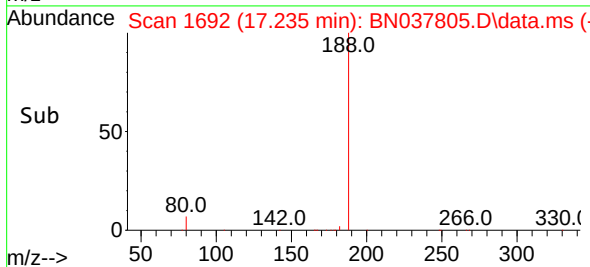
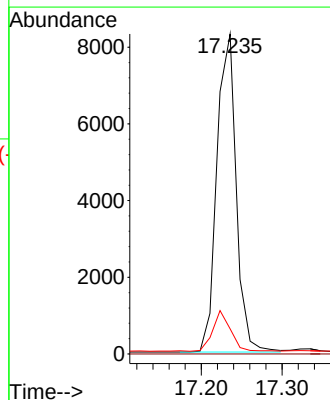
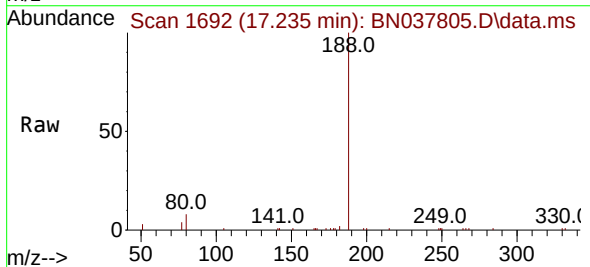
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

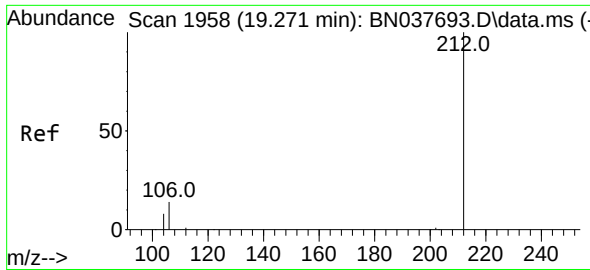
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.4	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	10.6	15.8#





#27

Fluoranthene-d10

Concen: 0.371 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037805.D

Acq: 19 Sep 2025 08:49

Instrument :

BNA_N

ClientSampleId :

RE105D2-20250911

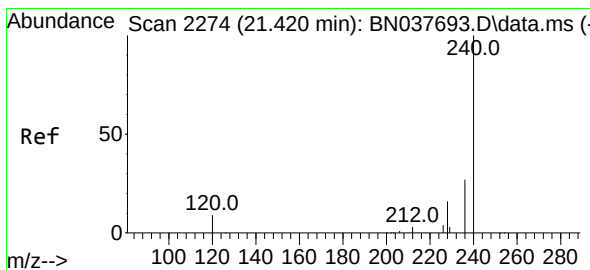
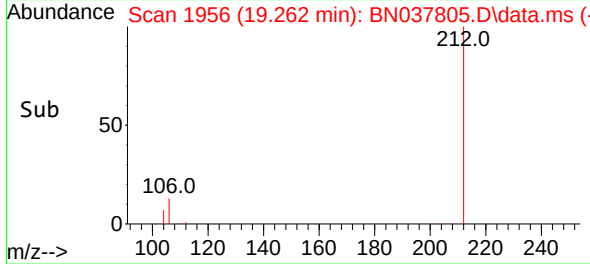
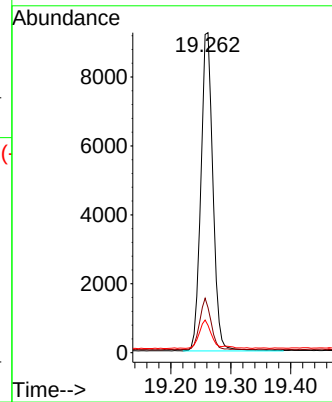
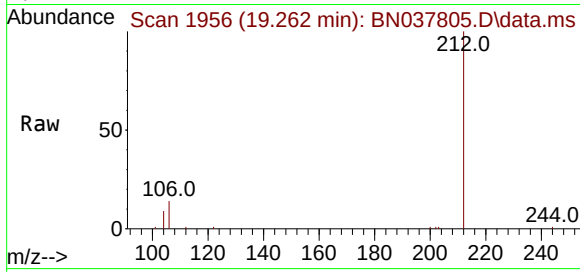
Tgt Ion:212 Resp: 12855

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037805.D

Acq: 19 Sep 2025 08:49

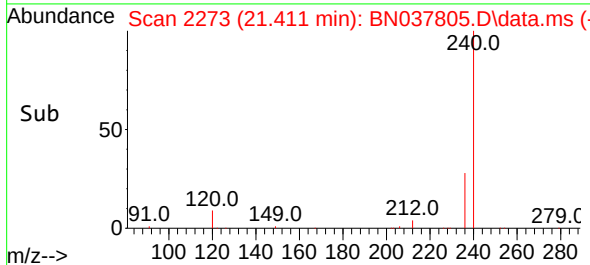
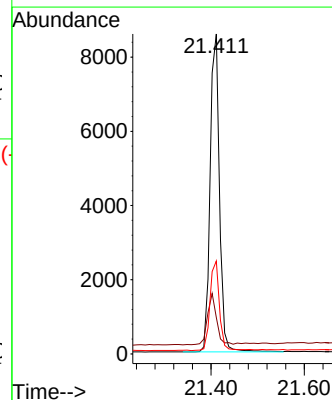
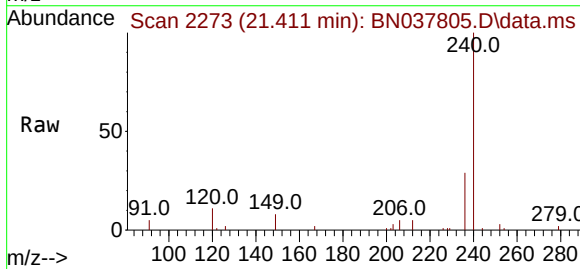
Tgt Ion:240 Resp: 11974

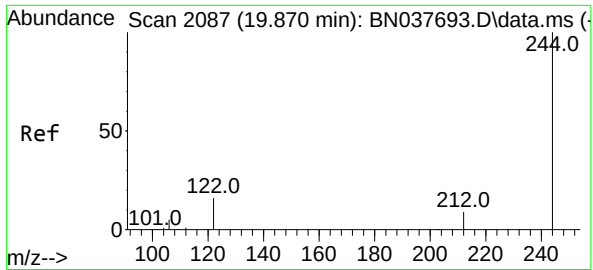
Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

236 29.0 22.6 33.8

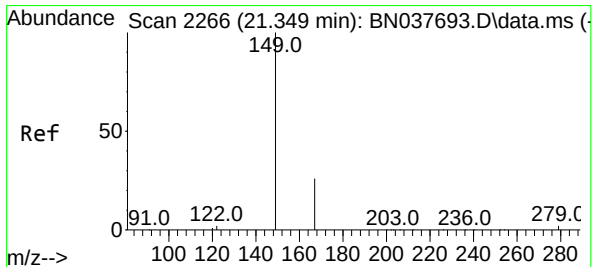
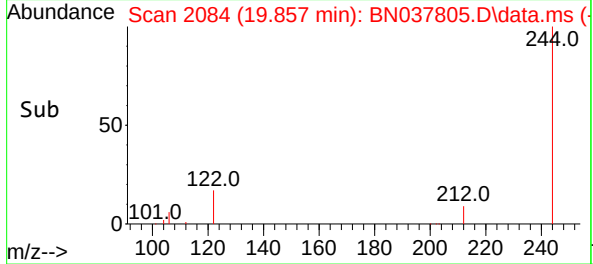
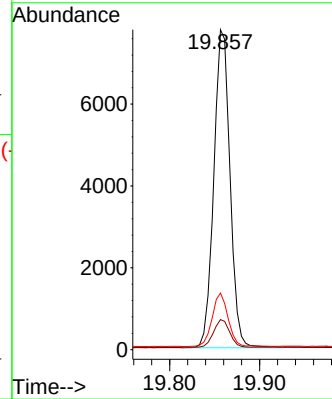
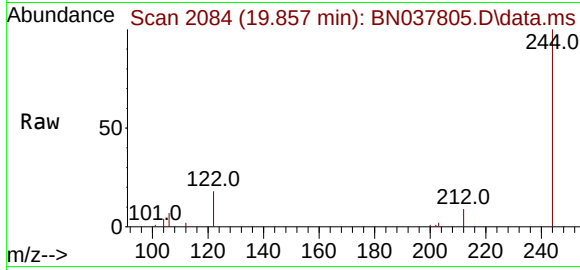




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

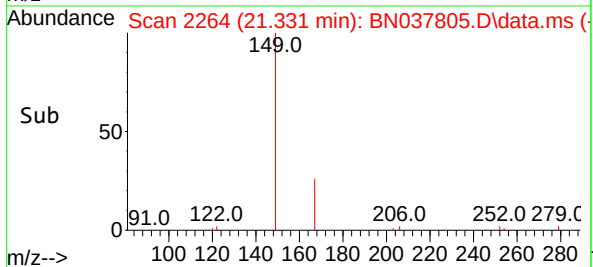
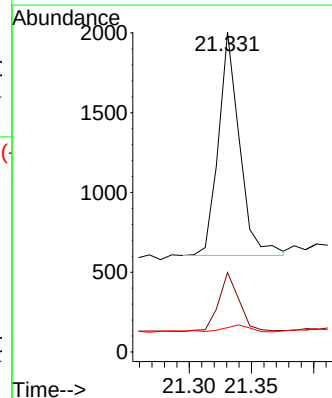
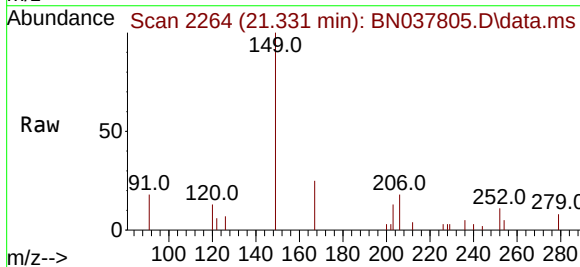
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250911

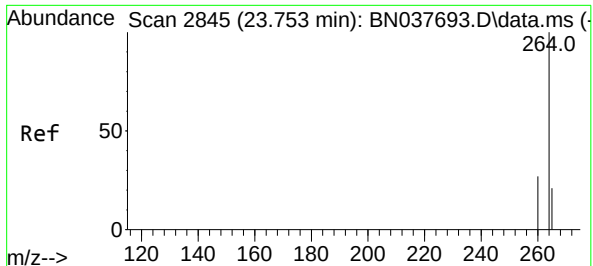
Tgt Ion:	244	Resp:	9718
Ion Ratio	Lower	Upper	
244	100		
212	9.4	7.5	11.3
122	17.7	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.134 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037805.D
Acq: 19 Sep 2025 08:49

Tgt Ion:	149	Resp:	1657
Ion Ratio	Lower	Upper	
149	100		
167	25.5	20.8	31.2
279	3.6	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.739 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037805.D

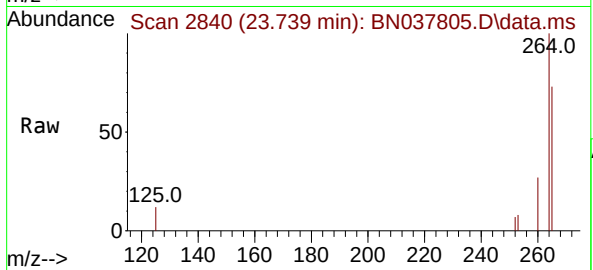
Acq: 19 Sep 2025 08:49

Instrument :

BNA_N

ClientSampleId :

RE105D2-20250911



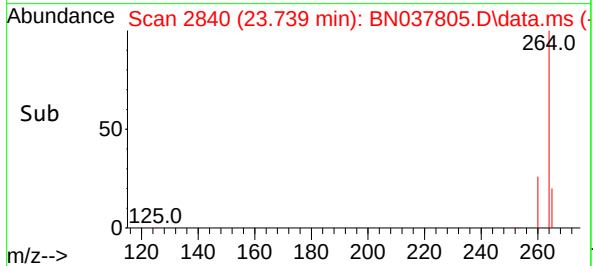
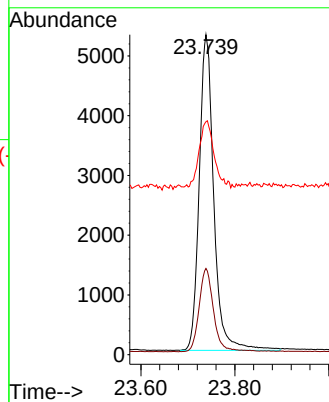
Tgt Ion:264 Resp: 11341

Ion Ratio Lower Upper

264 100

260 26.9 21.8 32.8

265 72.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-15	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
BN037806.D	1	09/16/25 09:39	09/19/25 09:25	PB169712

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	0.28		30 - 150		69%	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		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		58 - 132		86%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5760	7.832				
1146-65-2	Naphthalene-d8	15400	10.637				
15067-26-2	Acenaphthene-d10	7100	14.483				
1517-22-2	Phenanthrene-d10	13300	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11200	23.741				

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\BN091825\
Data File : BN037806.D
Acq On : 19 Sep 2025 09:25
Operator : RC/JU
Sample : Q3097-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

Quant Time: Sep 19 11:09:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

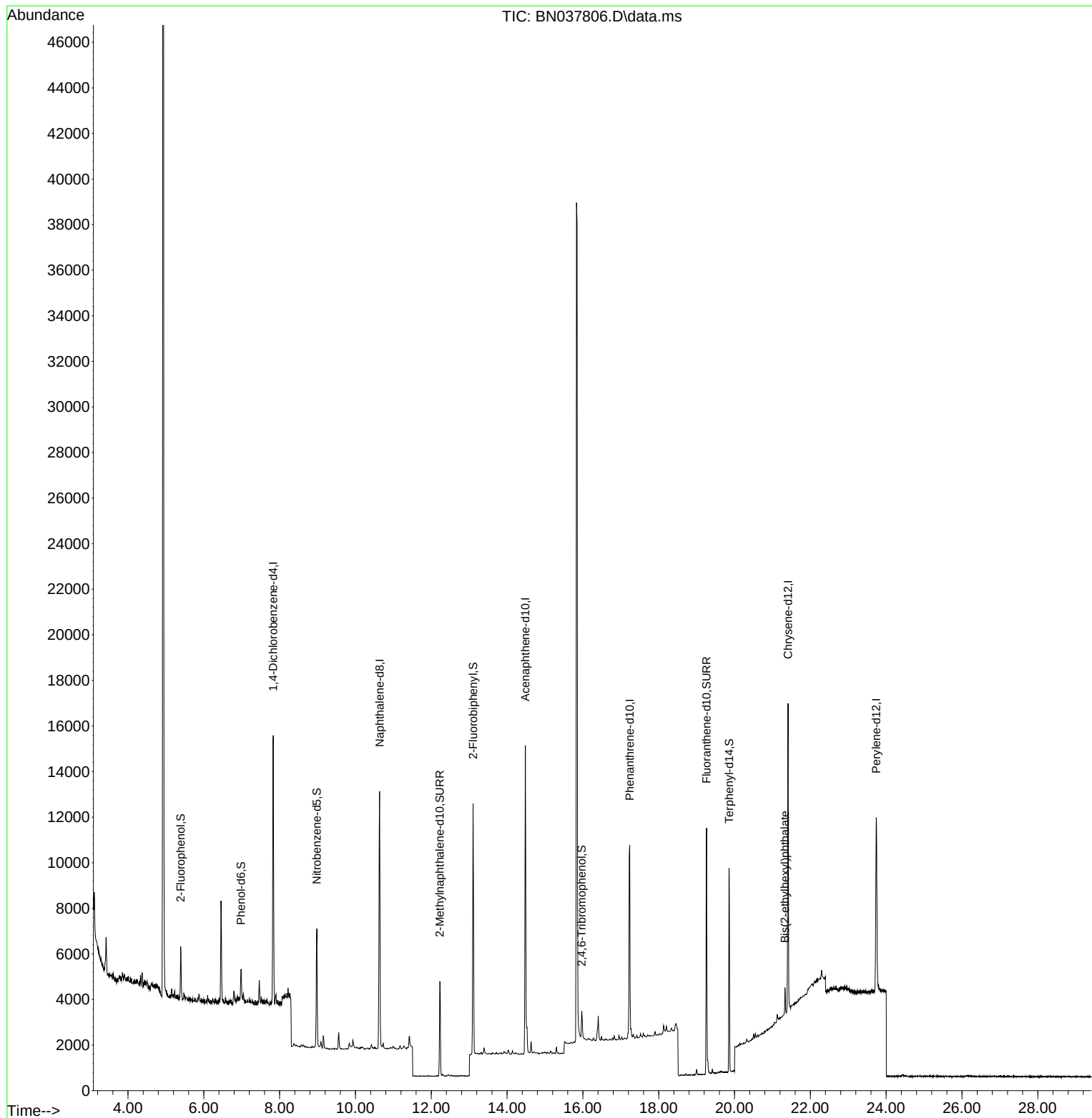
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	5758	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15439	0.400	ng	-0.01
13) Acenaphthene-d10	14.483	164	7097	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13316	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11984	0.400	ng	0.00
35) Perylene-d12	23.741	264	11150	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1792	0.136	ng	0.00
5) Phenol-d6	6.980	99	1316	0.077	ng	0.00
8) Nitrobenzene-d5	8.982	82	4139	0.367	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5661	0.277	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	734	0.397	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	8973	0.302	ng	-0.01
27) Fluoranthene-d10	19.262	212	12036	0.360	ng	0.00
31) Terphenyl-d14	19.856	244	8422	0.346	ng	-0.01
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.330	149	1143	0.092	ng	# 96

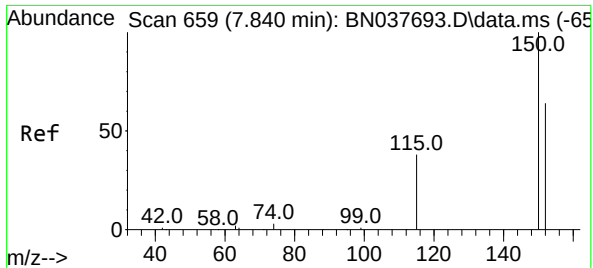
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037806.D
Acq On : 19 Sep 2025 09:25
Operator : RC/JU
Sample : Q3097-15
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

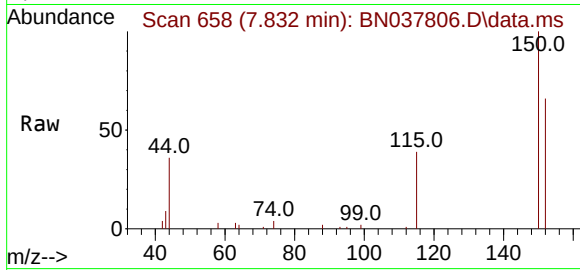
Quant Time: Sep 19 11:09:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



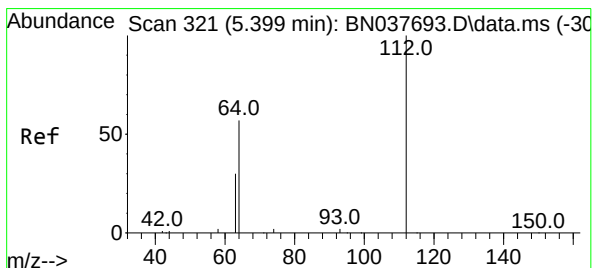
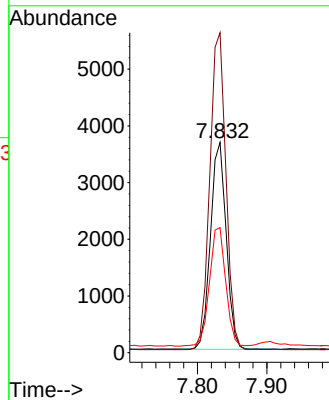
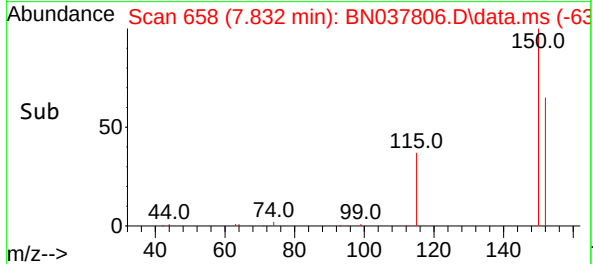


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

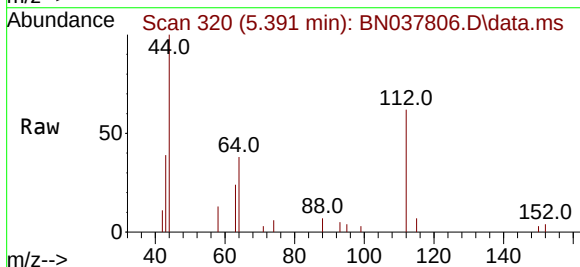
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911



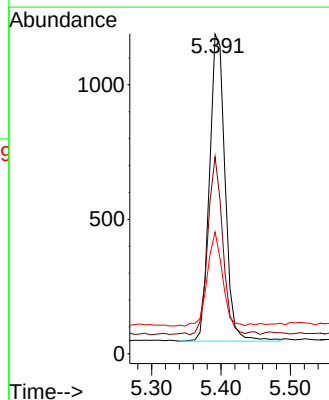
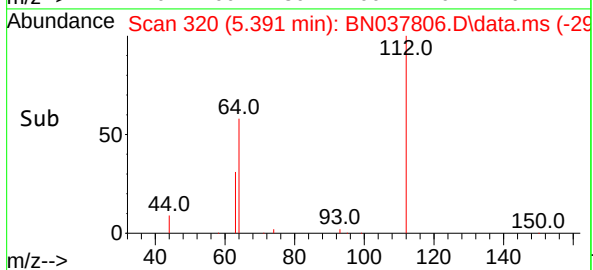
Tgt Ion:152 Resp: 5758
Ion Ratio Lower Upper
152 100
150 152.2 124.5 186.7
115 59.5 49.2 73.8

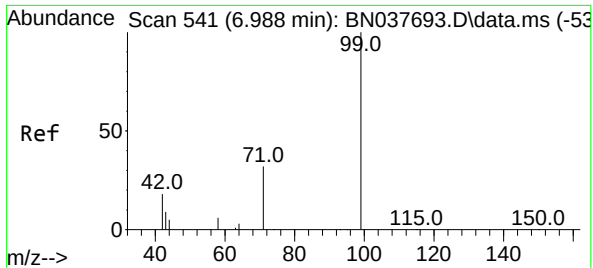


#4
2-Fluorophenol
Concen: 0.136 ng
RT: 5.391 min Scan# 320
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25



Tgt Ion:112 Resp: 1792
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 29.1 24.7 37.1

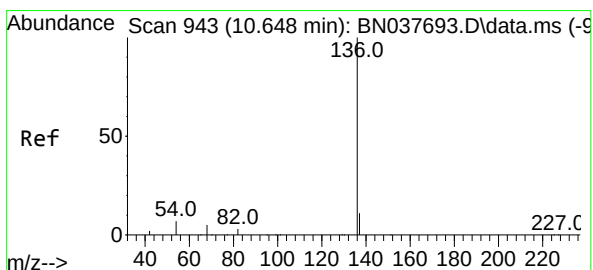
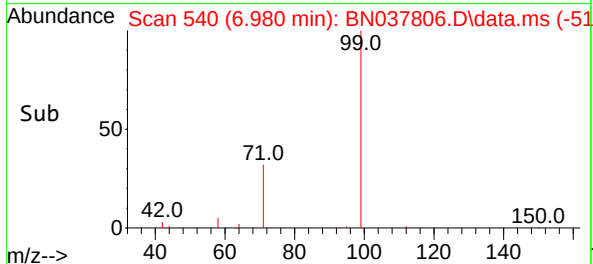
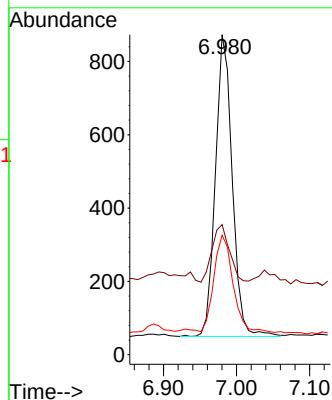
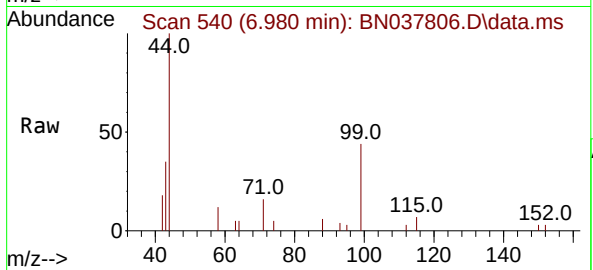




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.008 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

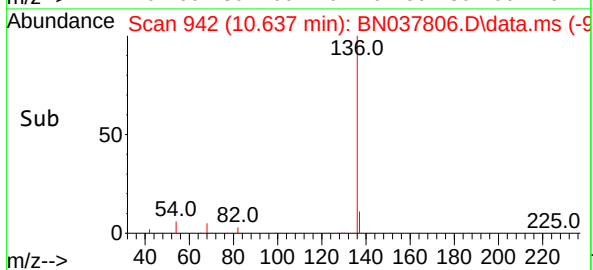
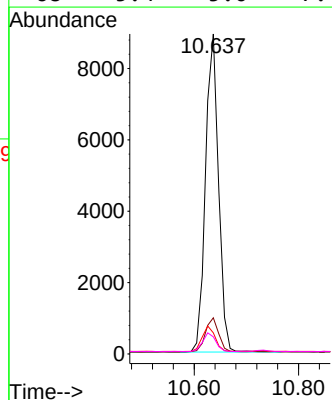
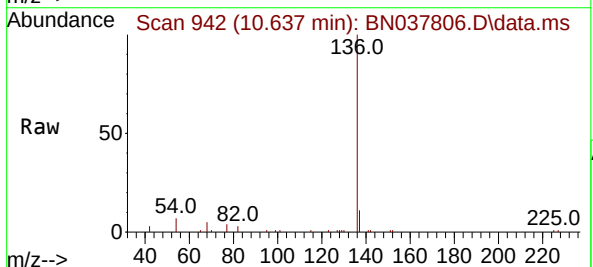
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

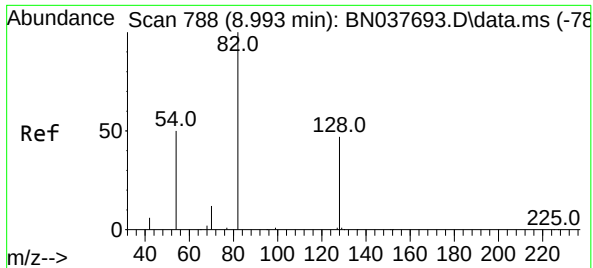
Tgt Ion:	99	Resp:	1316
Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.6	24.8
71	39.1	26.7	40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion:	136	Resp:	15439
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.6	6.3	9.5
68	5.4	5.0	7.4

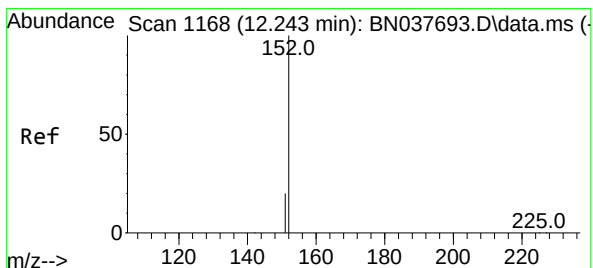
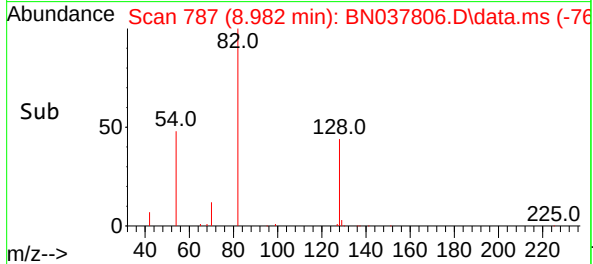
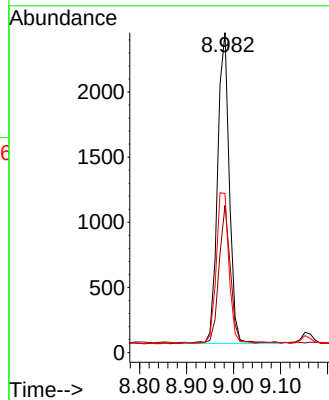
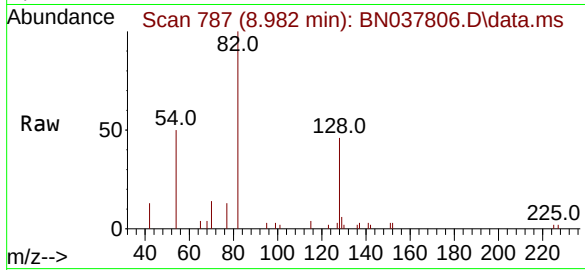




#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

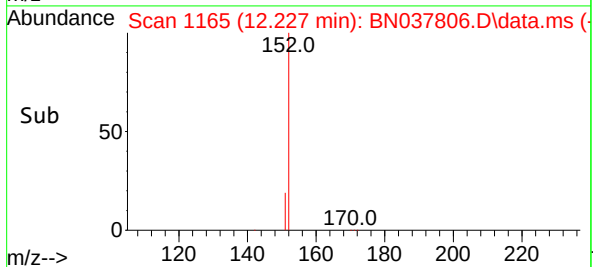
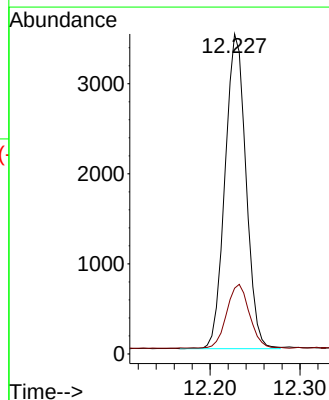
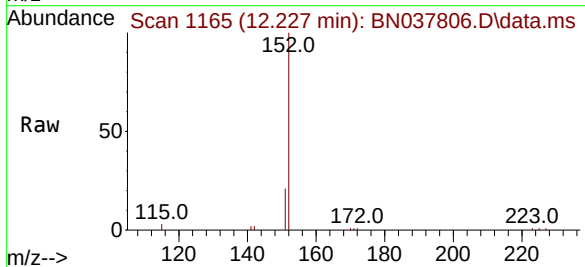
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

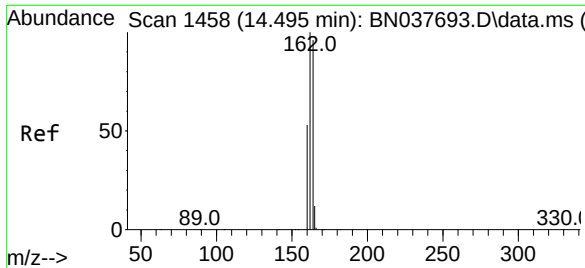
Tgt Ion	82	Resp:	4139
Ion Ratio	Lower	Upper	
82	100		
128	46.0	38.3	57.5
54	49.7	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.016 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion	152	Resp:	5661
Ion Ratio	Lower	Upper	
152	100		
151	22.1	17.0	25.6

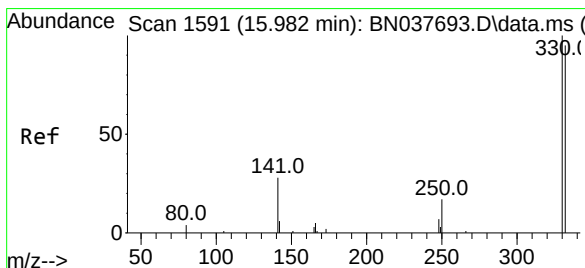
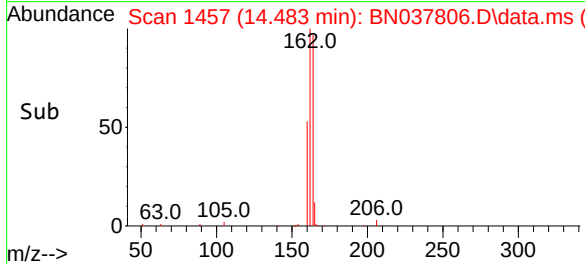
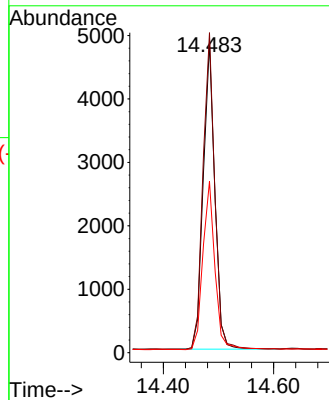
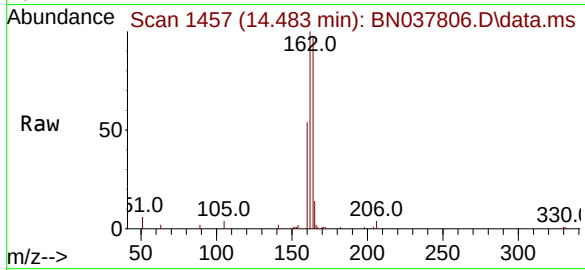




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.483 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

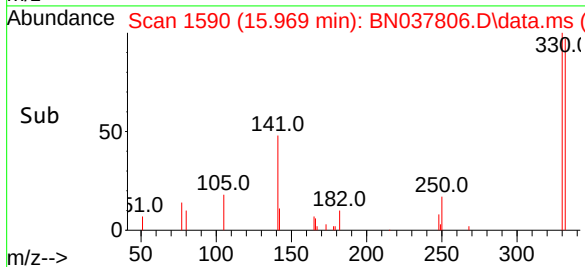
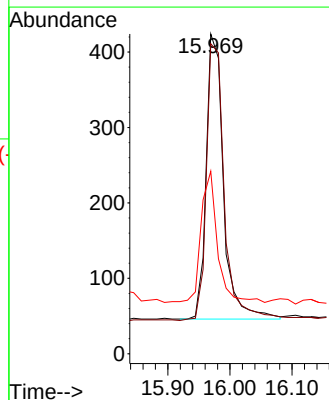
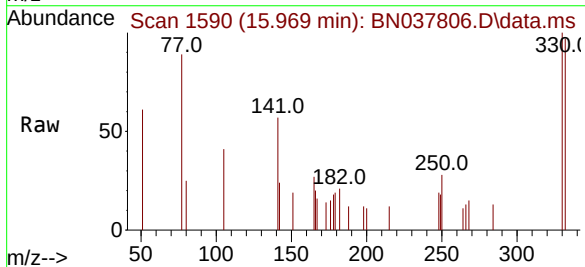
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

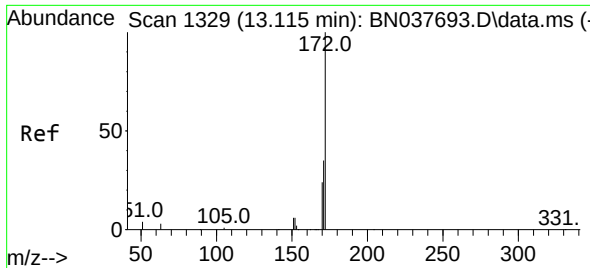
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	83.1	124.7
160	55.3	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.0	75.3	112.9
141	44.8	35.0	52.4

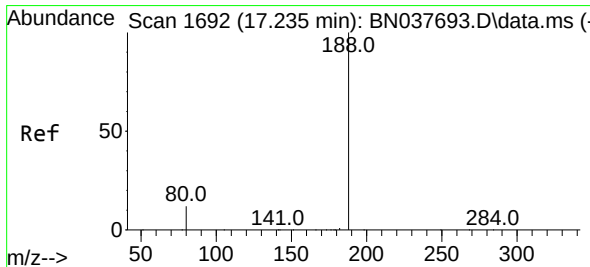
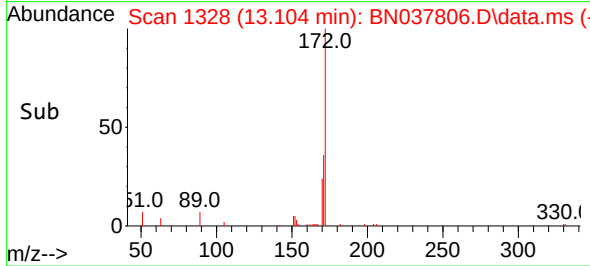
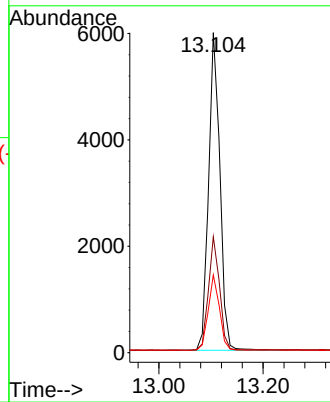
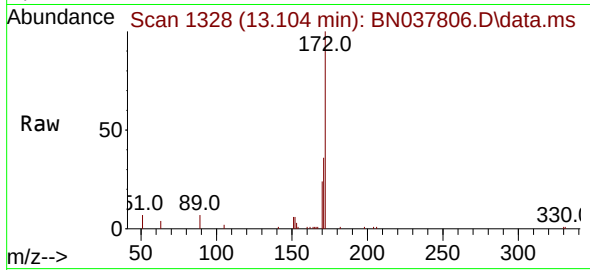




#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 13.104 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

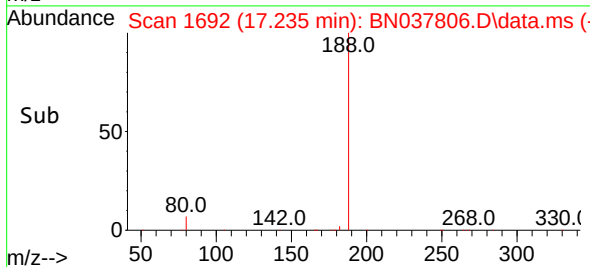
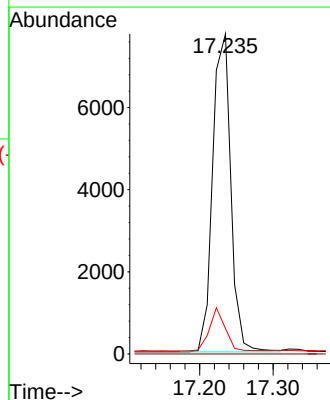
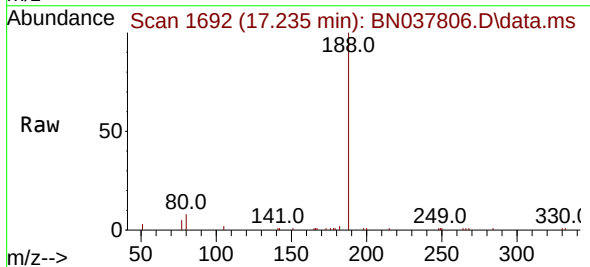
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

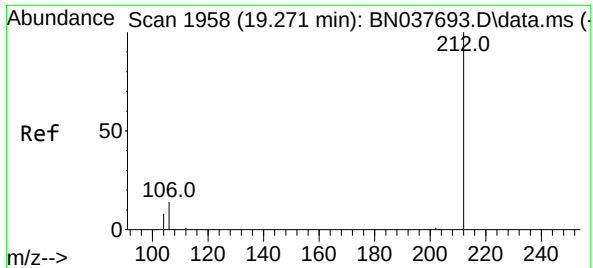
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.3	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	10.6	15.8#





#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.010 min

Lab File: BN037806.D

Acq: 19 Sep 2025 09:25

Instrument :

BNA_N

ClientSampleId :

RE117D2-20250911

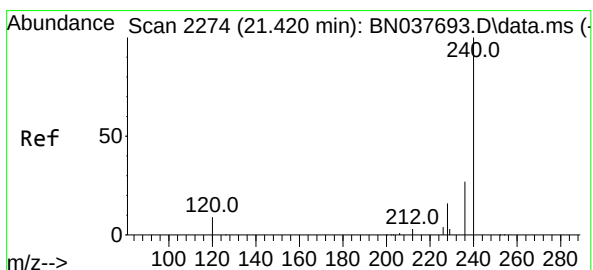
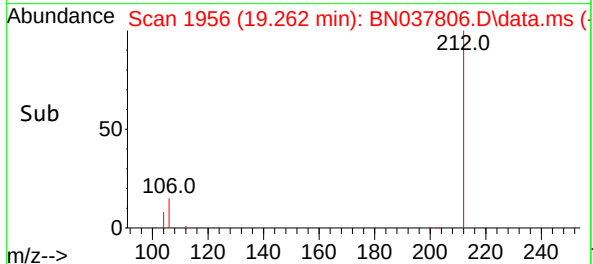
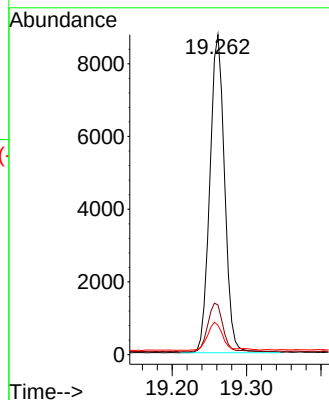
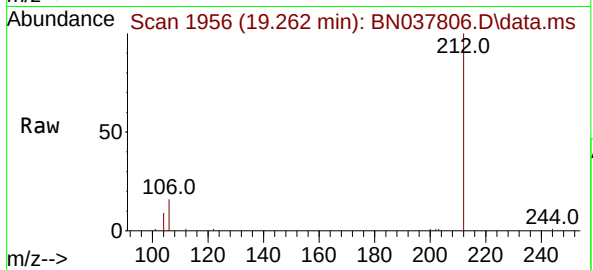
Tgt Ion:212 Resp: 12036

Ion Ratio Lower Upper

212 100

106 16.0 12.2 18.2

104 8.7 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037806.D

Acq: 19 Sep 2025 09:25

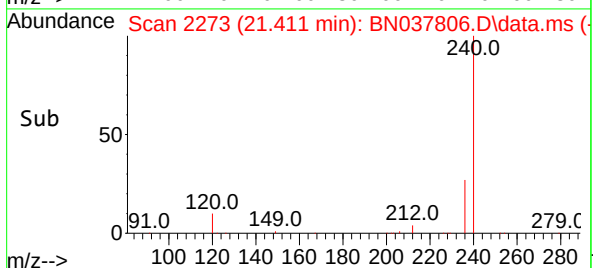
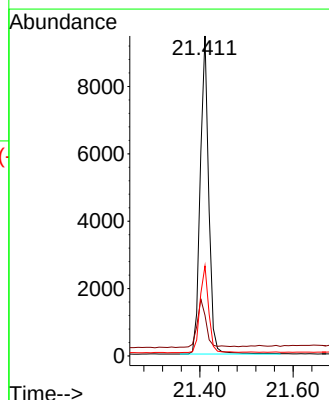
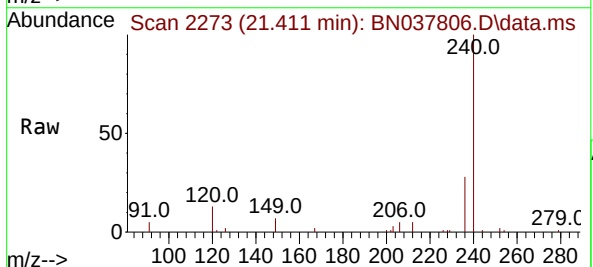
Tgt Ion:240 Resp: 11984

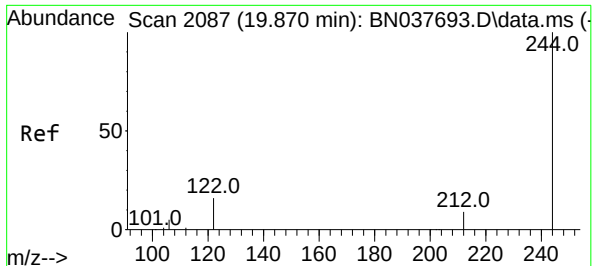
Ion Ratio Lower Upper

240 100

120 12.7 9.2 13.8

236 28.2 22.6 33.8

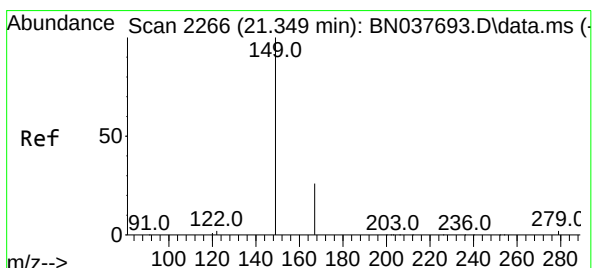
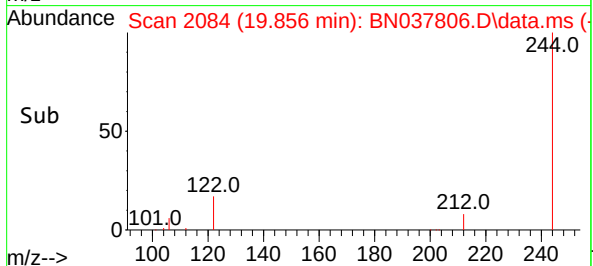
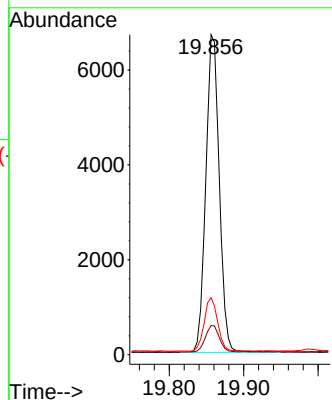
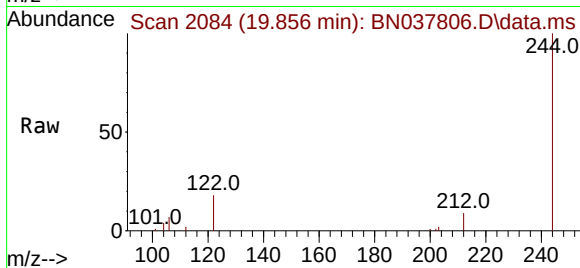




#31
Terphenyl-d14
Concen: 0.346 ng
RT: 19.856 min Scan# 2087
Delta R.T. -0.014 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

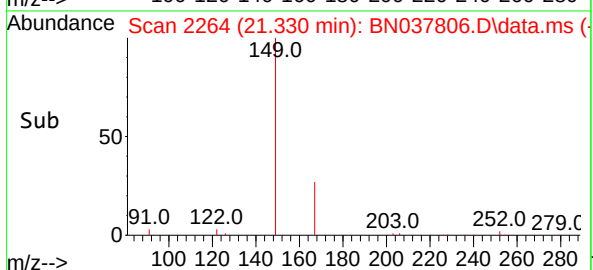
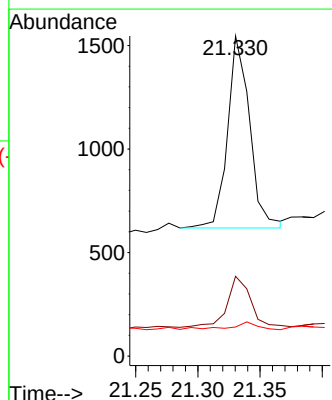
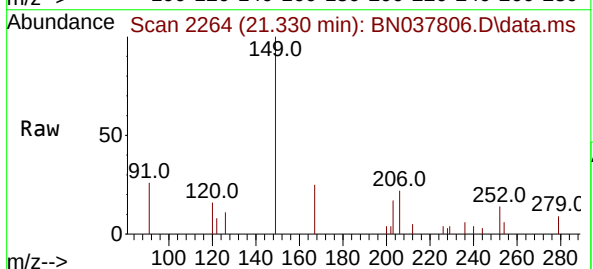
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911

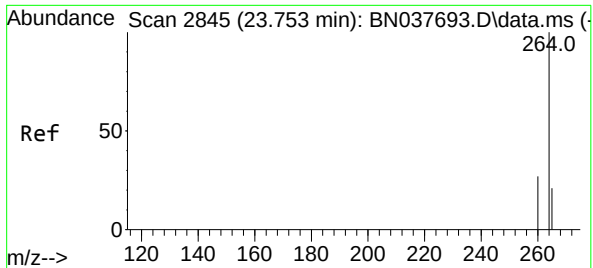
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.8	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

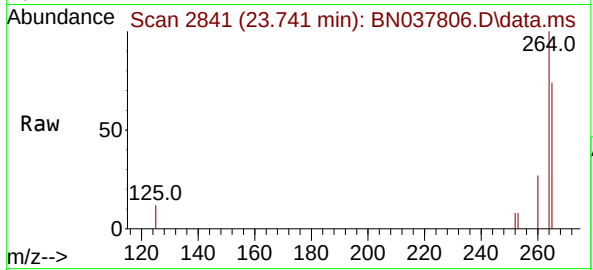
Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.1	20.8	31.2
279	5.0	3.3	4.9



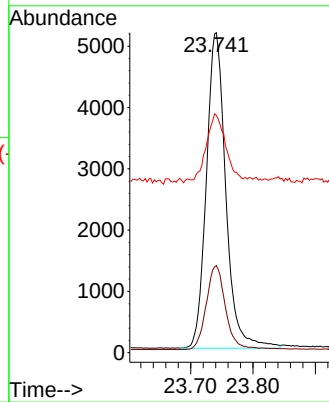
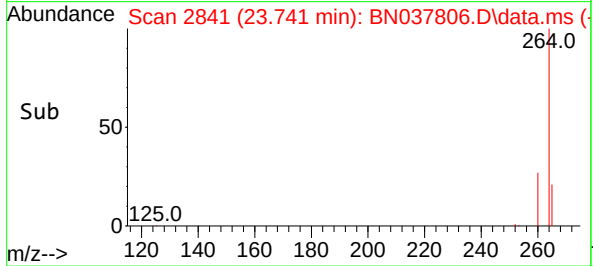


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037806.D
Acq: 19 Sep 2025 09:25

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250911



Tgt Ion:264 Resp: 11150
Ion Ratio Lower Upper
264 100
260 27.2 21.8 32.8
265 74.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-19	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
BN037807.D	1	09/16/25 09:39	09/19/25 10:02	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5780	7.833				
1146-65-2	Naphthalene-d8	15300	10.637				
15067-26-2	Acenaphthene-d10	6860	14.484				
1517-22-2	Phenanthrene-d10	12900	17.235				
1719-03-5	Chrysene-d12	11100	21.411				
1520-96-3	Perylene-d12	10400	23.738				

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\BN091825\
Data File : BN037807.D
Acq On : 19 Sep 2025 10:02
Operator : RC/JU
Sample : Q3097-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Quant Time: Sep 19 11:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

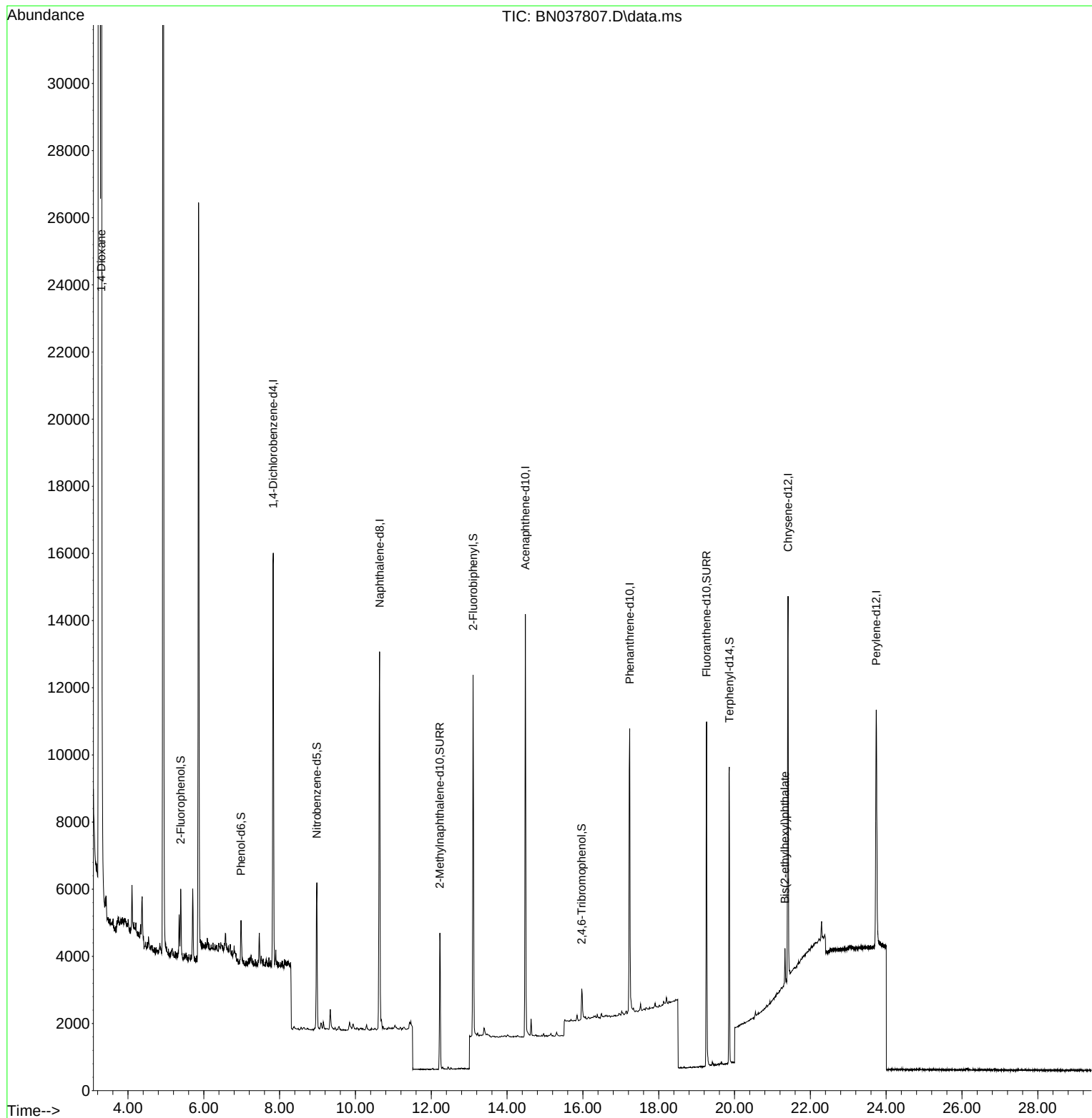
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5776	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15322	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6856	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12918	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11066	0.400	ng	0.00
35) Perylene-d12	23.738	264	10367	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1604	0.121	ng	0.00
5) Phenol-d6	6.980	99	1181	0.069	ng	0.00
8) Nitrobenzene-d5	8.982	82	3535	0.315	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	5315	0.262	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	664	0.371	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8978	0.313	ng	-0.01
27) Fluoranthene-d10	19.262	212	11202	0.345	ng	0.00
31) Terphenyl-d14	19.861	244	8410	0.374	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	42084	6.995	ng	94
34) Bis(2-ethylhexyl)phtha...	21.331	149	1043	0.091	ng	99

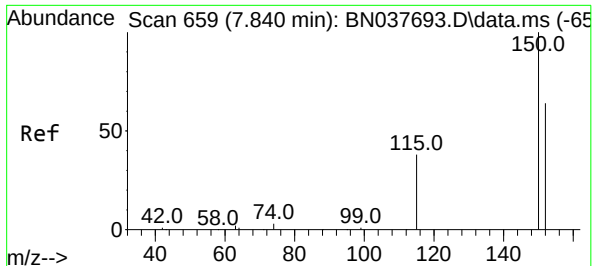
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037807.D
Acq On : 19 Sep 2025 10:02
Operator : RC/JU
Sample : Q3097-19
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

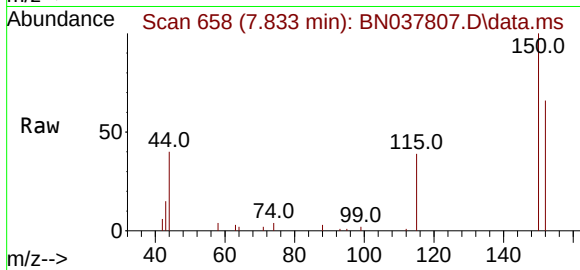
Quant Time: Sep 19 11:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



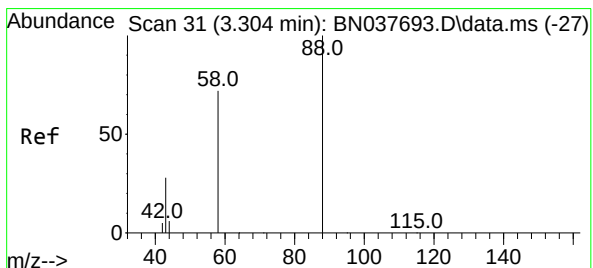
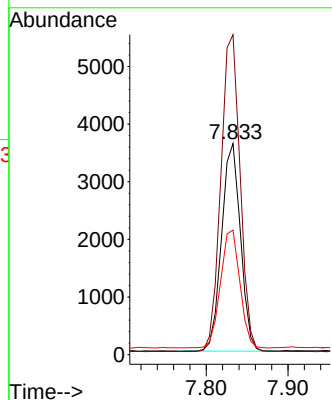
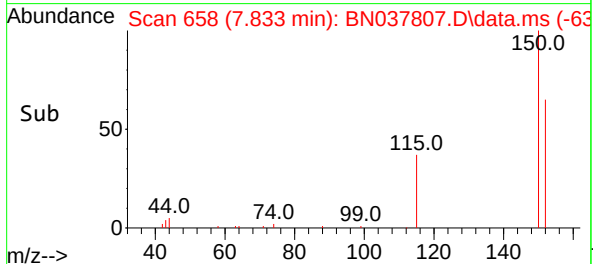


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

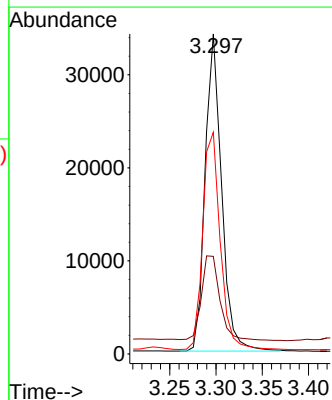
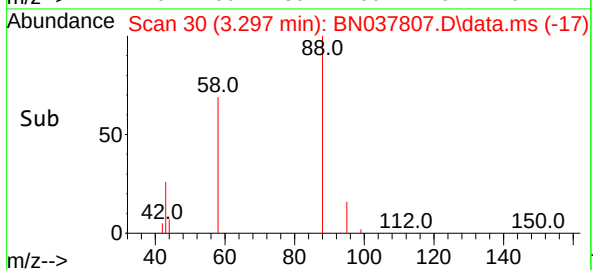
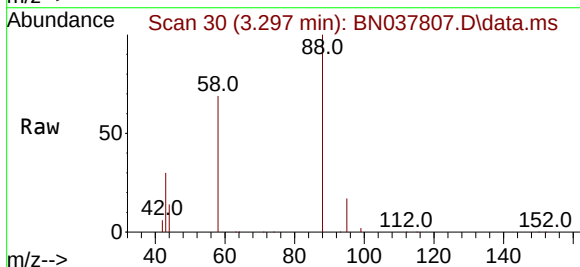


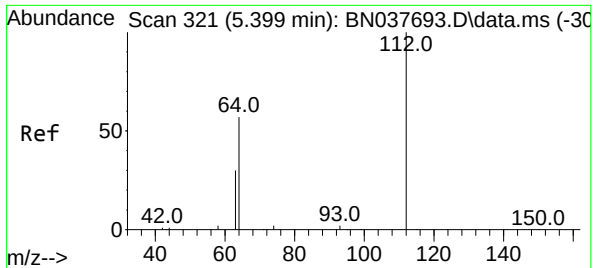
Tgt Ion:152 Resp: 5776
Ion Ratio Lower Upper
152 100
150 151.5 124.5 186.7
115 59.0 49.2 73.8



#2
1,4-Dioxane
Concen: 6.995 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion: 88 Resp: 42084
Ion Ratio Lower Upper
88 100
43 29.9 26.8 40.2
58 72.6 61.9 92.9

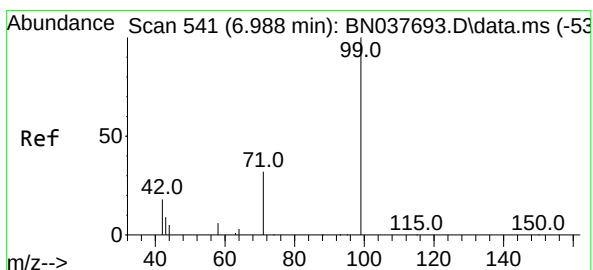
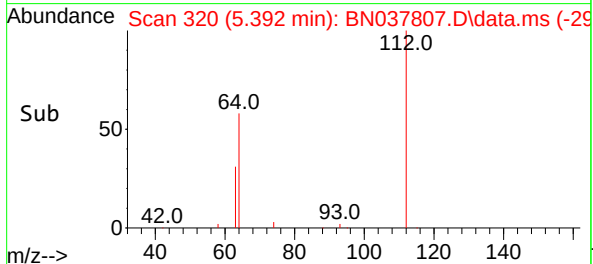
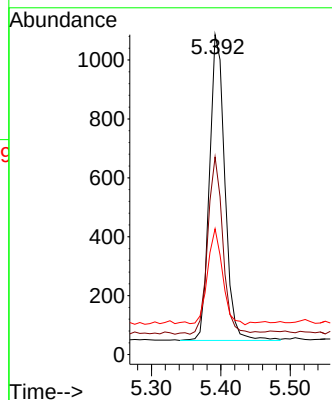
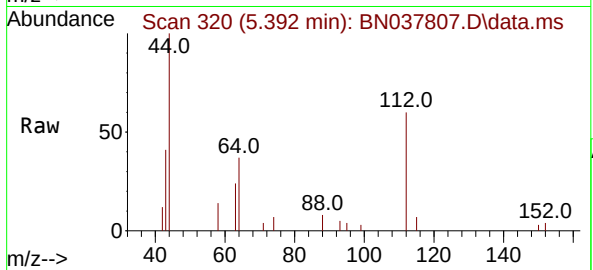




#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

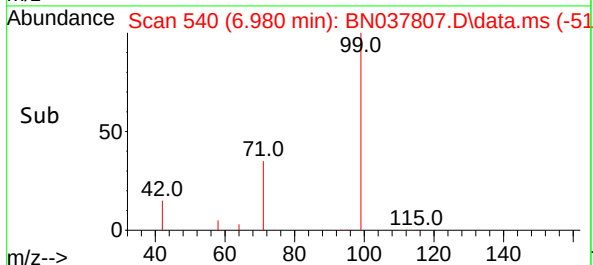
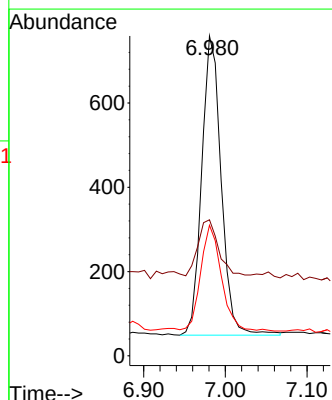
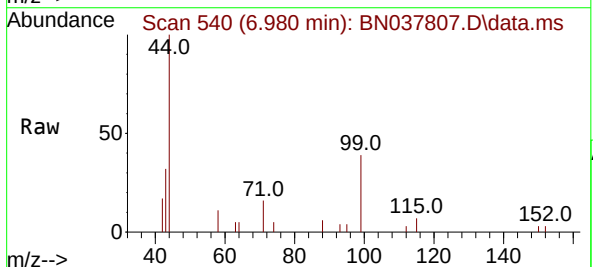
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

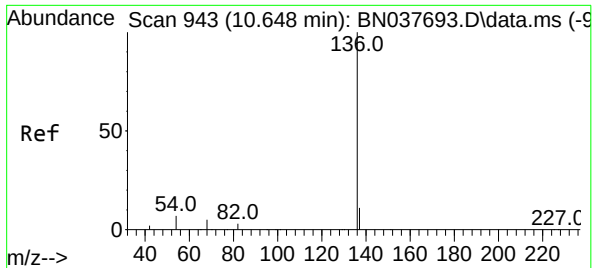
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.9	67.3
63	30.5	24.7	37.1



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.6	24.8
71	38.7	26.7	40.1

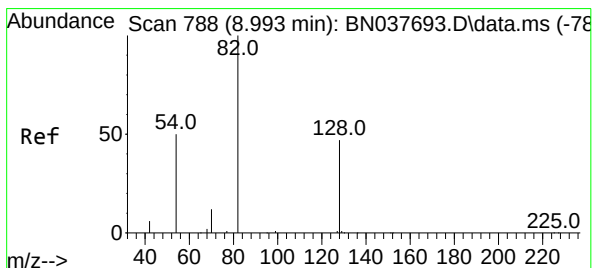
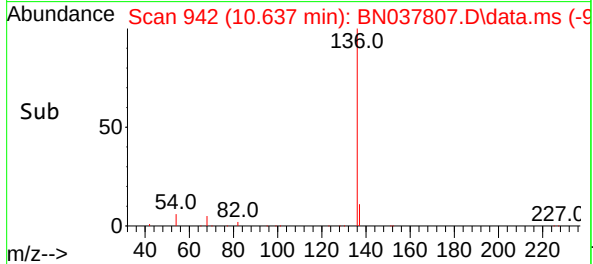
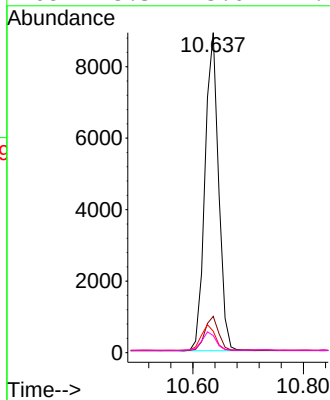
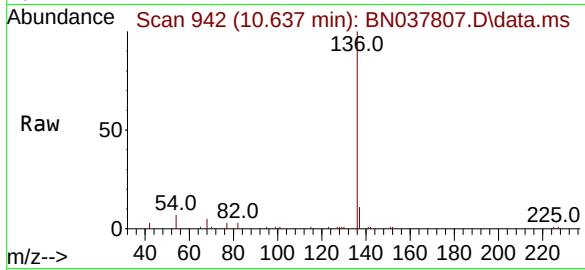




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

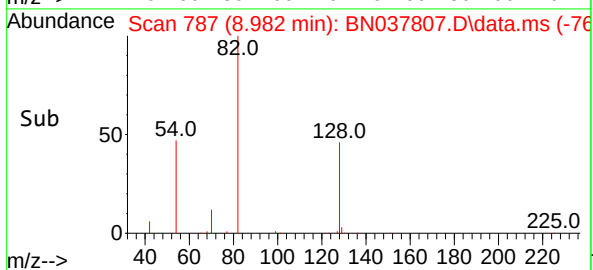
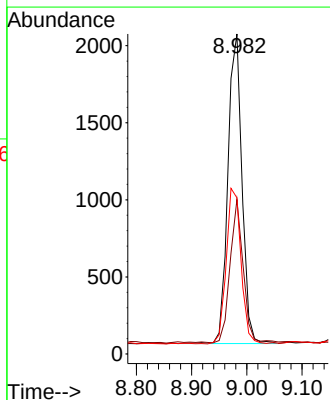
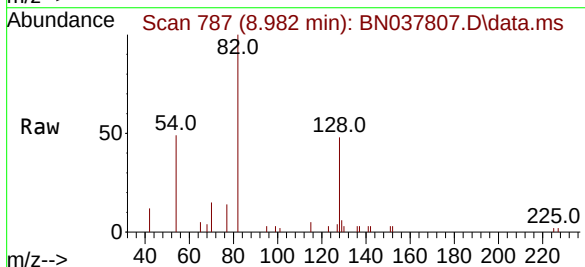
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

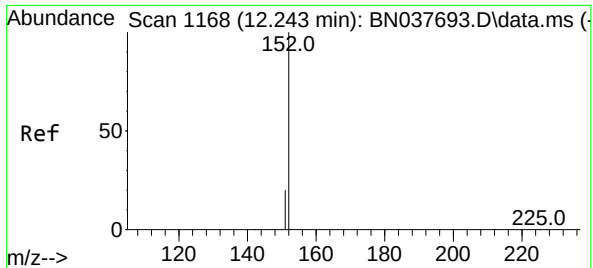
Tgt Ion:	136	Resp:	15322
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.7	6.3	9.5
68	5.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:	82	Resp:	3535
Ion	Ratio	Lower	Upper
82	100		
128	48.3	38.3	57.5
54	48.8	41.4	62.2

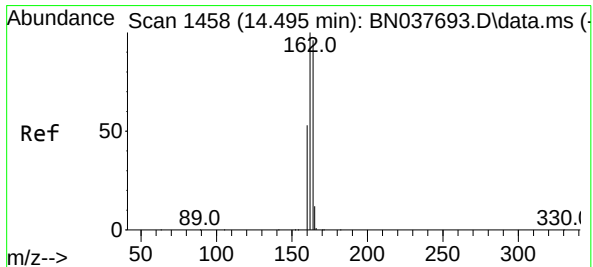
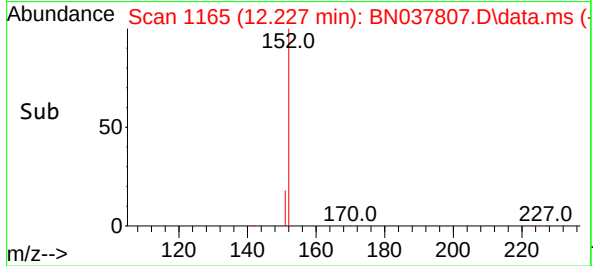
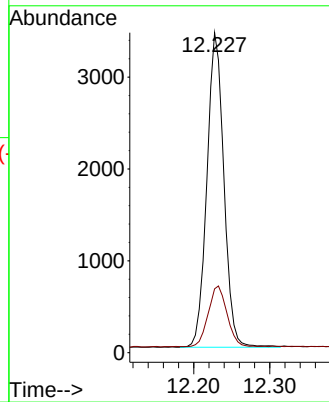
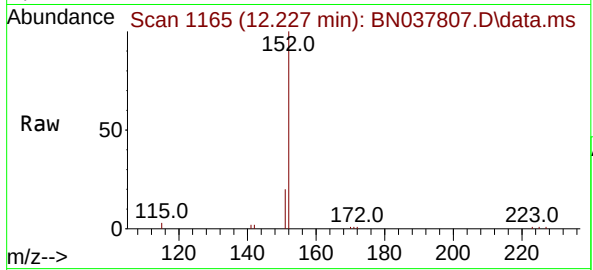




#11
2-Methylnaphthalene-d10
Concen: 0.262 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

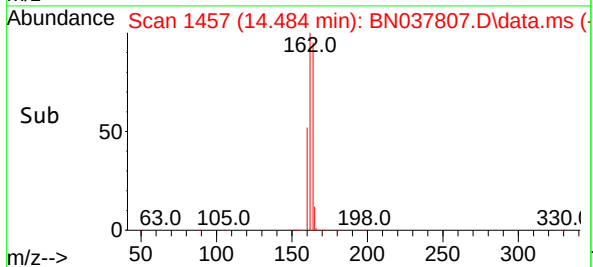
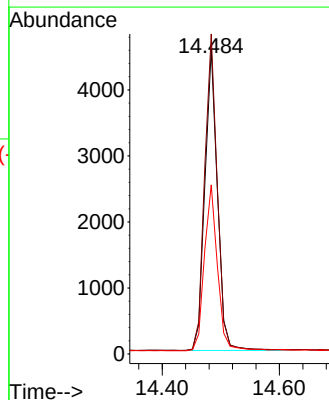
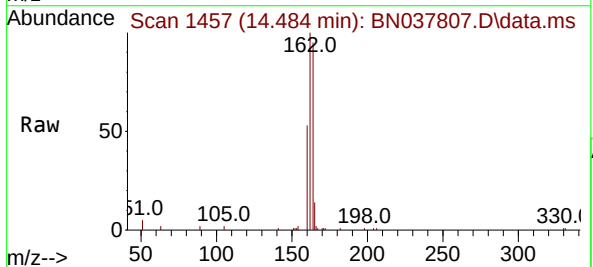
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

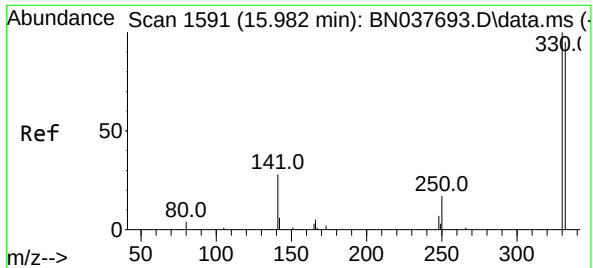
Tgt Ion:152 Resp: 5315
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:164 Resp: 6856
Ion Ratio Lower Upper
164 100
162 104.9 83.1 124.7
160 55.4 44.3 66.5

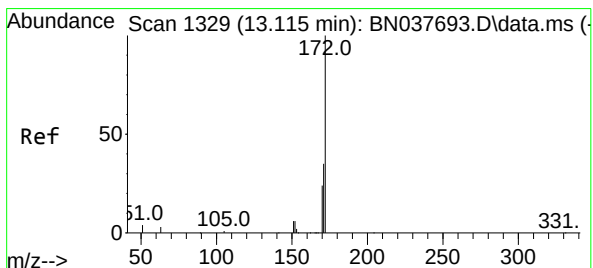
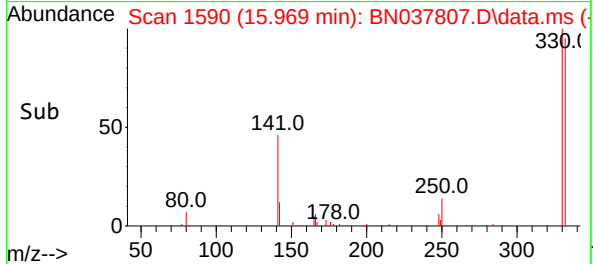
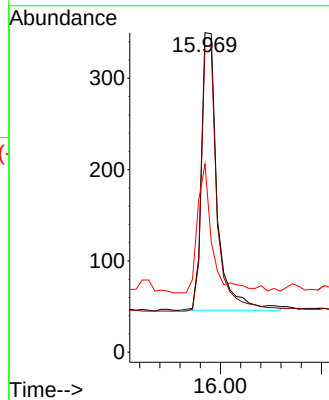
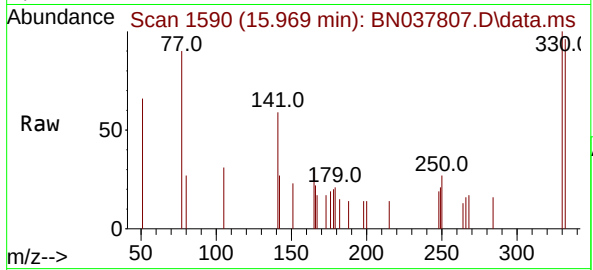




#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

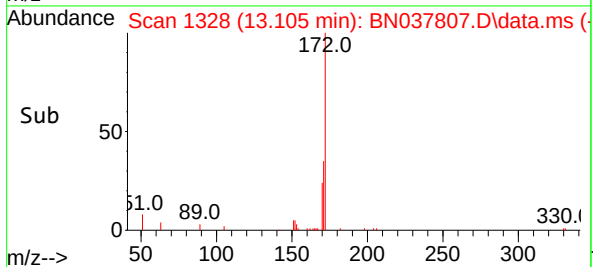
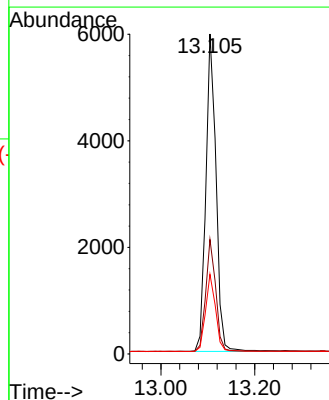
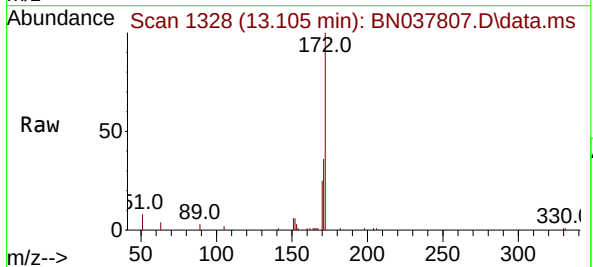
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

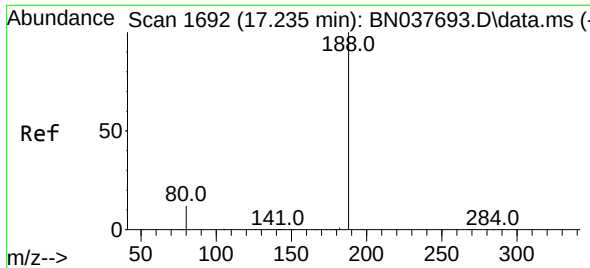
Tgt Ion:330 Resp: 664
Ion Ratio Lower Upper
330 100
332 94.6 75.3 112.9
141 43.2 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:172 Resp: 8978
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 24.9 19.8 29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037807.D

Acq: 19 Sep 2025 10:02

Instrument :

BNA_N

ClientSampleId :

RE120D1-20250912

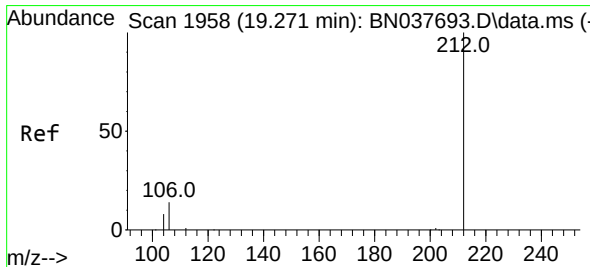
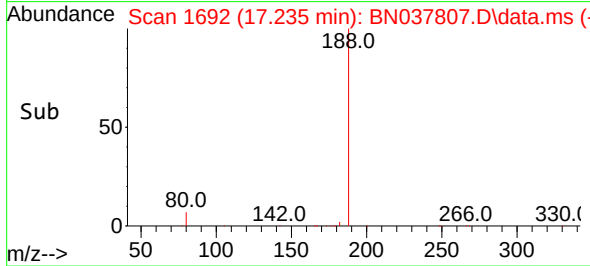
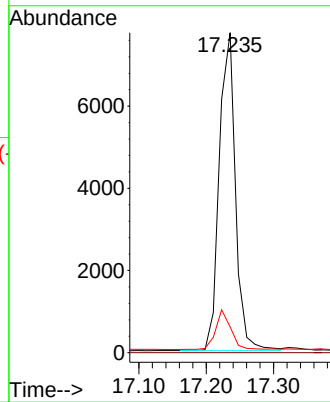
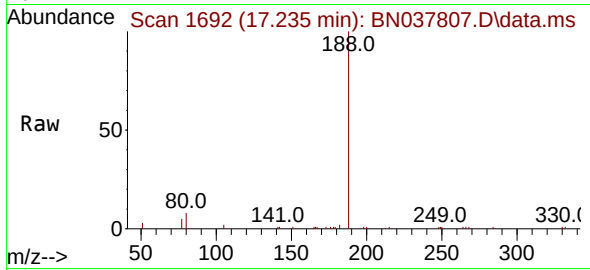
Tgt Ion:188 Resp: 12918

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.345 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037807.D

Acq: 19 Sep 2025 10:02

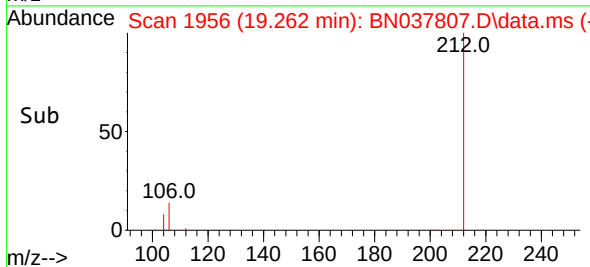
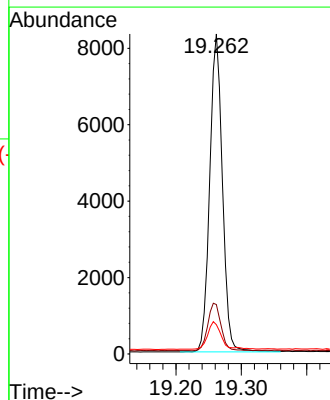
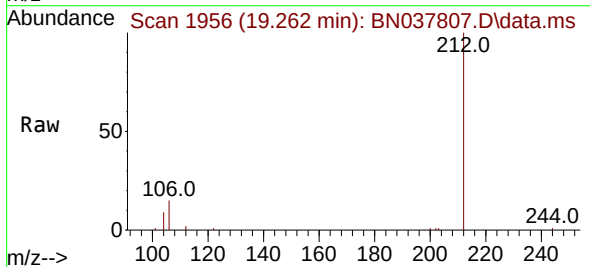
Tgt Ion:212 Resp: 11202

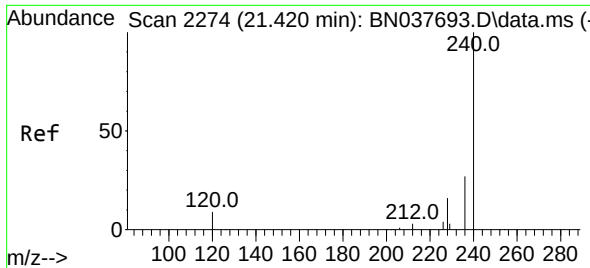
Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 9.2 6.9 10.3

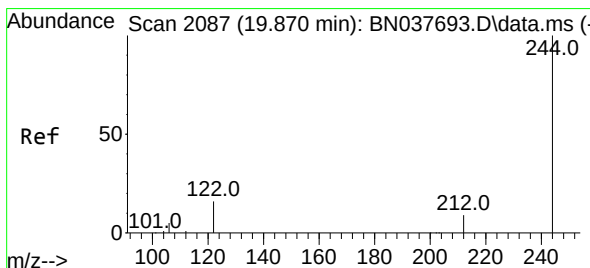
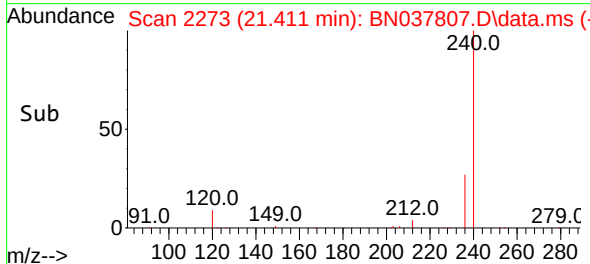
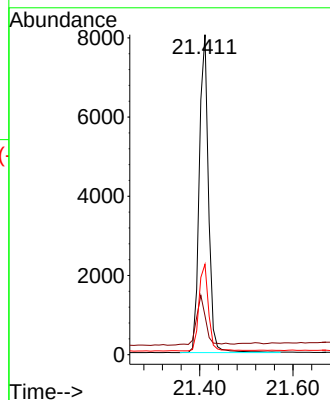
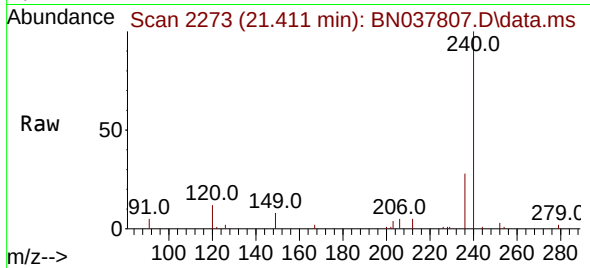




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

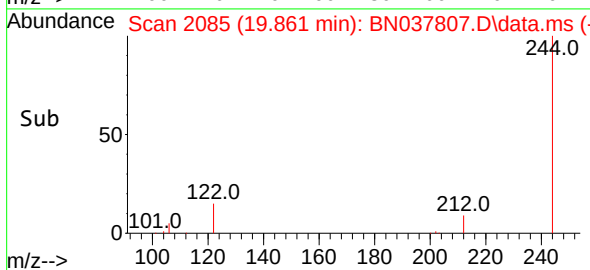
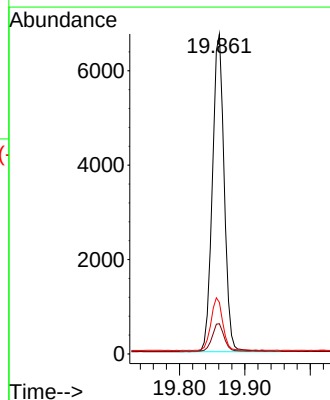
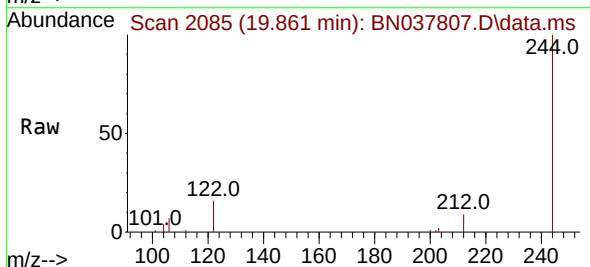
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

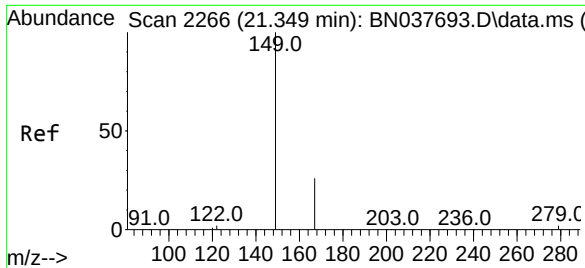
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.2	13.8
236	28.3	22.6	33.8



#31
Terphenyl-d14
Concen: 0.374 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.1	13.2	19.8

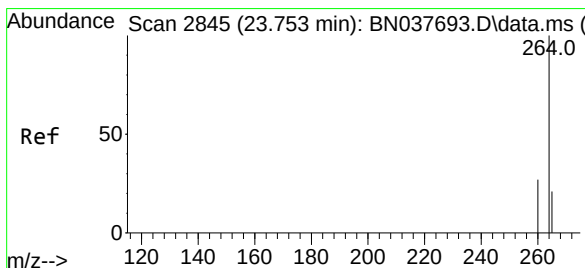
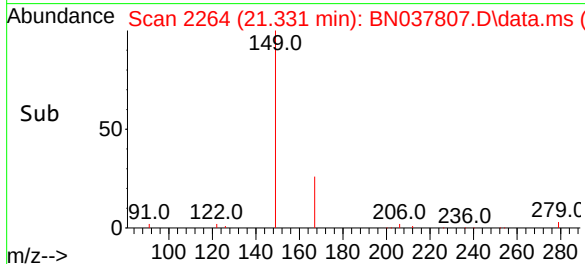
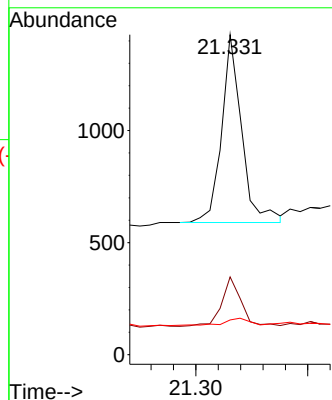
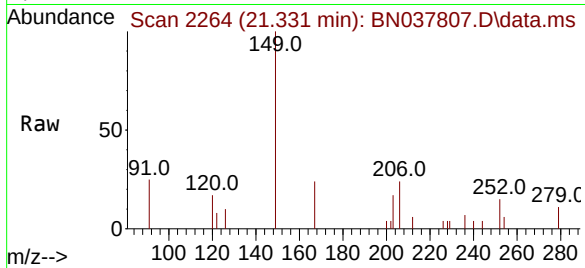




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.091 ng
RT: 21.331 min Scan# 2133
Delta R.T. -0.018 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

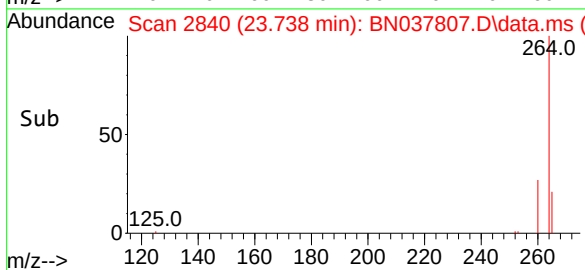
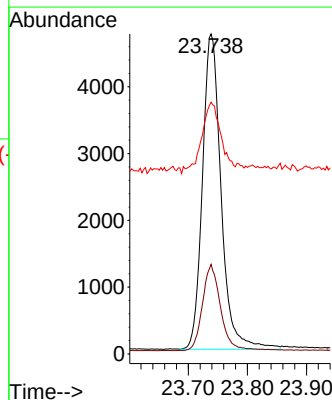
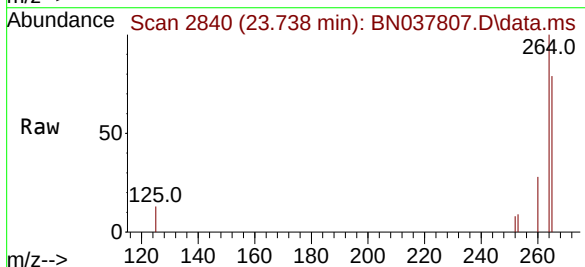
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912

Tgt Ion:149 Resp: 1043
Ion Ratio Lower Upper
149 100
167 25.7 20.8 31.2
279 4.4 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037807.D
Acq: 19 Sep 2025 10:02

Tgt Ion:264 Resp: 10367
Ion Ratio Lower Upper
264 100
260 28.0 21.8 32.8
265 78.6 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-19DL	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
BN037818.D	2	09/16/25 09:39	09/19/25 17:21	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.10	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.18		30 - 150		46%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.22		30 - 150		56%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		58%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.22		53 - 106		54%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.27		58 - 132		67%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8130	7.833				
1146-65-2	Naphthalene-d8	21300	10.637				
15067-26-2	Acenaphthene-d10	9040	14.484				
1517-22-2	Phenanthrene-d10	15100	17.235				
1719-03-5	Chrysene-d12	11400	21.411				
1520-96-3	Perylene-d12	11400	23.744				

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\BN091925\
Data File : BN037818.D
Acq On : 19 Sep 2025 17:21
Operator : RC/JU
Sample : Q3097-19DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Quant Time: Sep 19 18:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

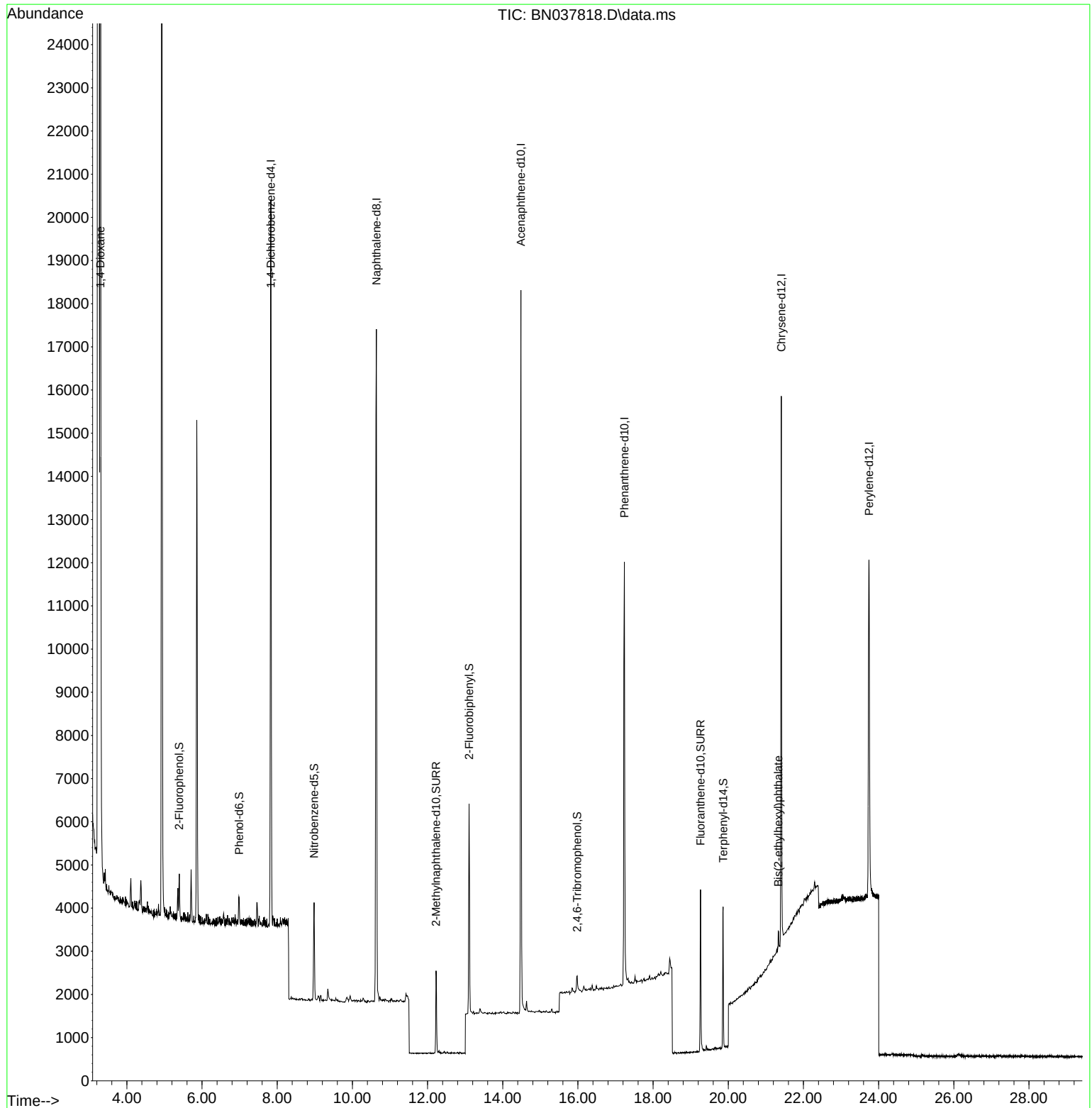
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8131	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21334	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9041	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	15081	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11372	0.400	ng	0.00
35) Perylene-d12	23.744	264	11377	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	836	0.045	ng	0.00
5) Phenol-d6	6.988	99	601	0.025	ng	0.00
8) Nitrobenzene-d5	8.982	82	1832	0.117	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	2602	0.092	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	298	0.126	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	4101	0.108	ng	-0.01
27) Fluoranthene-d10	19.262	212	4190	0.111	ng	0.00
31) Terphenyl-d14	19.861	244	3082	0.134	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	21691	2.561	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	479	0.041	ng	# 96

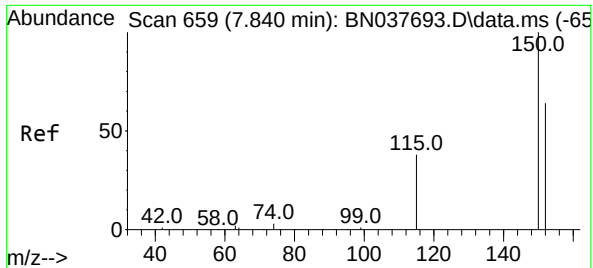
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037818.D
Acq On : 19 Sep 2025 17:21
Operator : RC/JU
Sample : Q3097-19DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

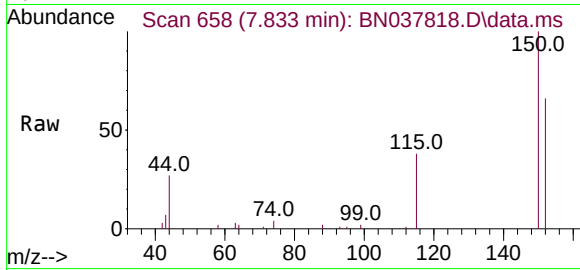
Quant Time: Sep 19 18:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



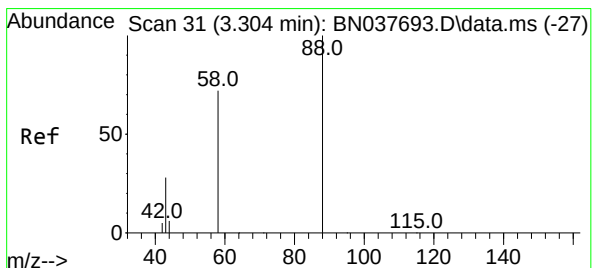
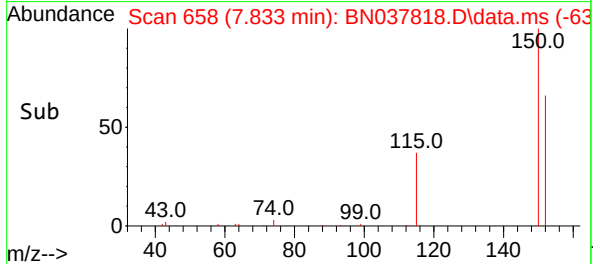
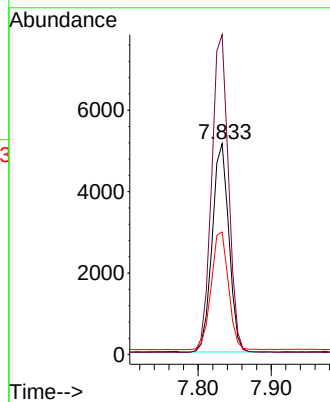


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

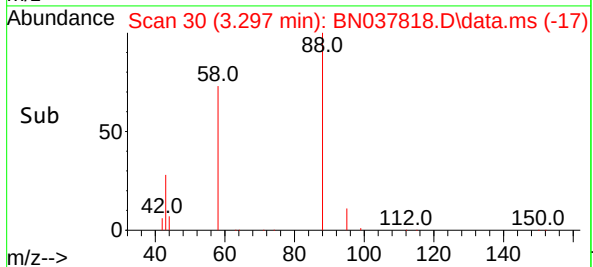
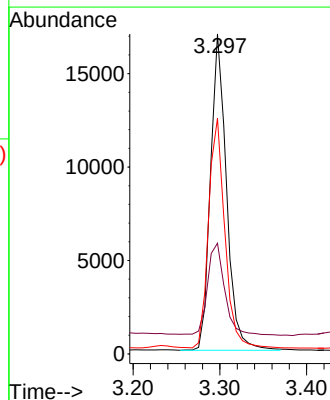
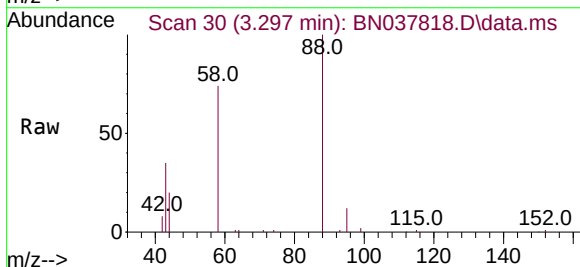


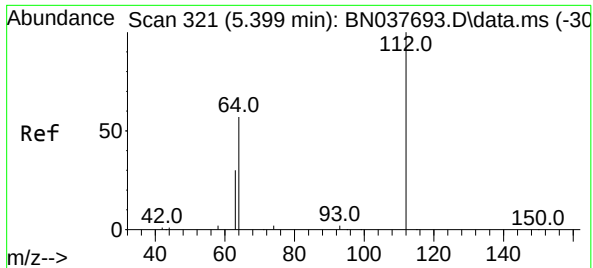
Tgt Ion: 152 Resp: 8131
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 58.1 49.2 73.8



#2
1,4-Dioxane
Concen: 2.561 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion: 88 Resp: 21691
Ion Ratio Lower Upper
88 100
43 31.2 26.8 40.2
58 73.4 61.9 92.9

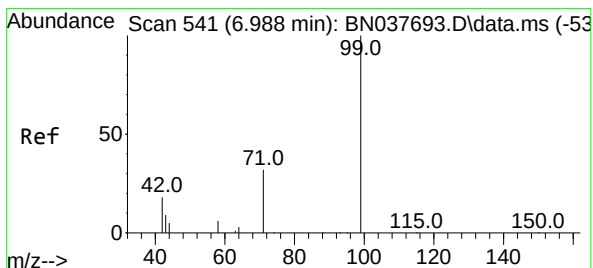
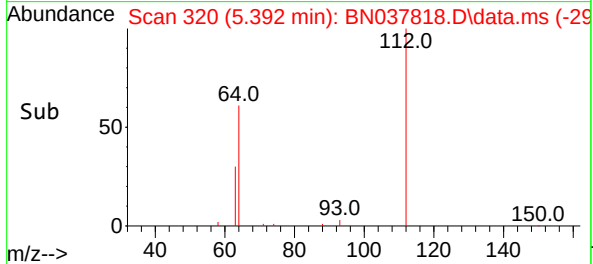
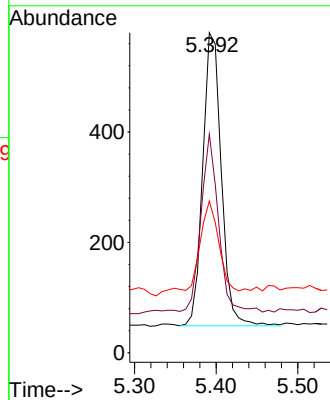
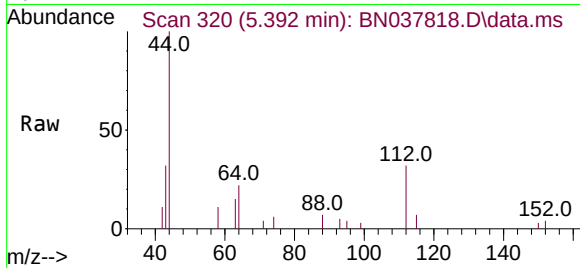




#4
2-Fluorophenol
Concen: 0.045 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

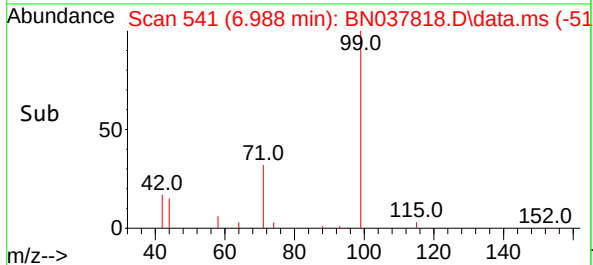
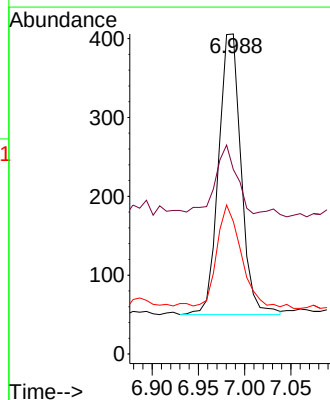
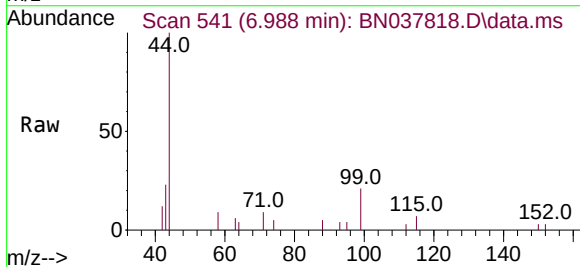
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

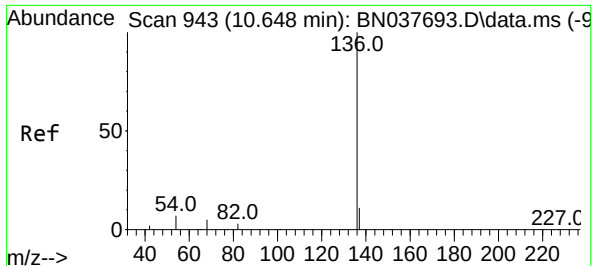
Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	44.9	67.3
63	36.5	24.7	37.1



#5
Phenol-d6
Concen: 0.025 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.0	16.6	24.8
71	41.3	26.7	40.1

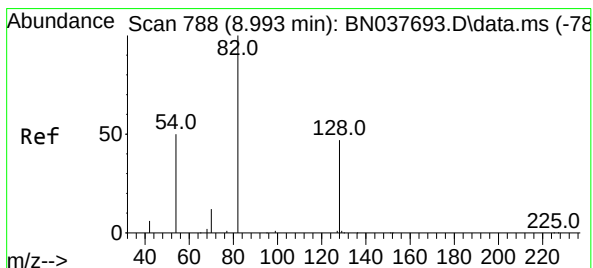
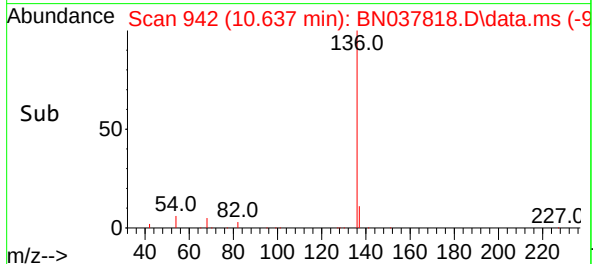
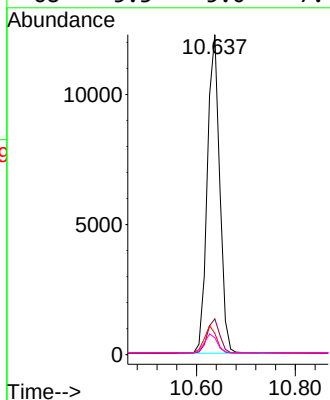
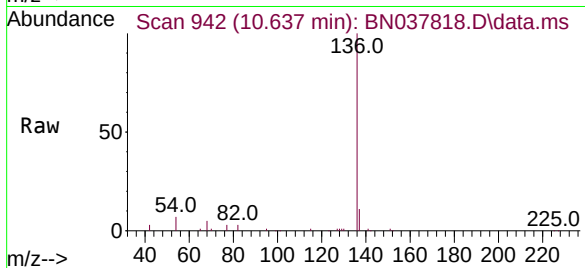




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

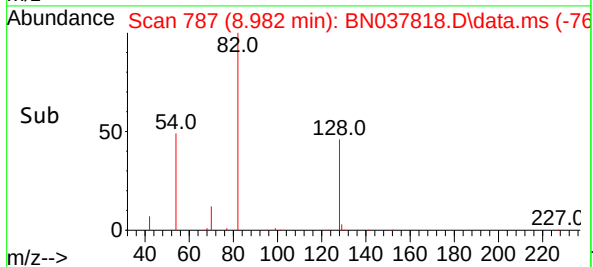
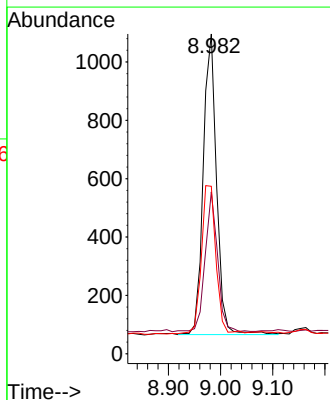
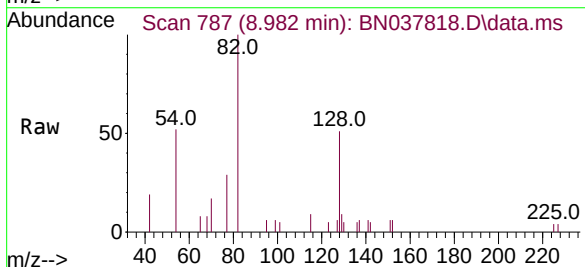
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

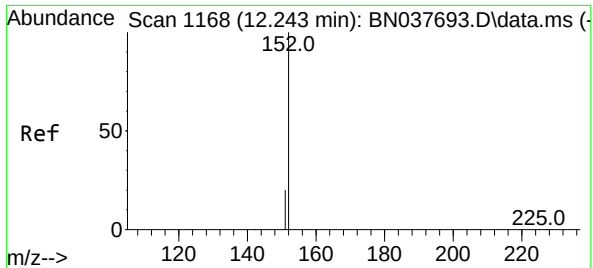
Tgt Ion:	136	Resp:	21334
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.6	6.3	9.5
68	5.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.117 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:	82	Resp:	1832
Ion	Ratio	Lower	Upper
82	100		
128	50.6	38.3	57.5
54	52.4	41.4	62.2

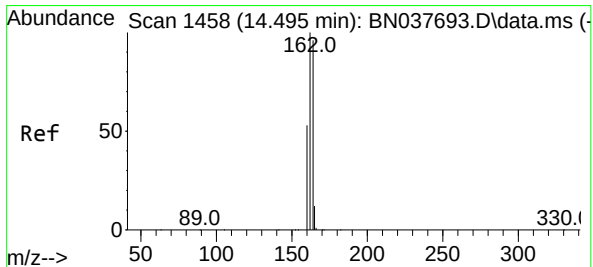
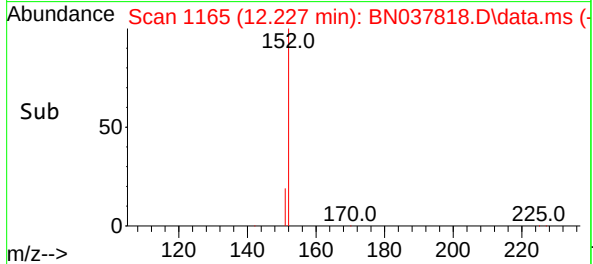
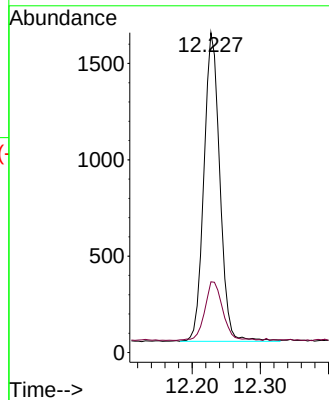
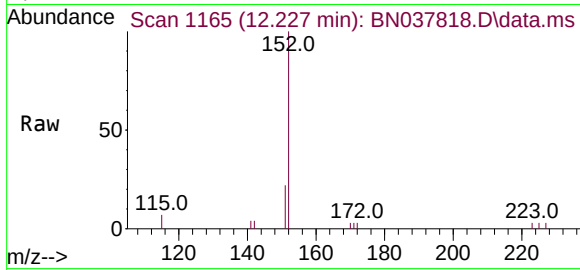




#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

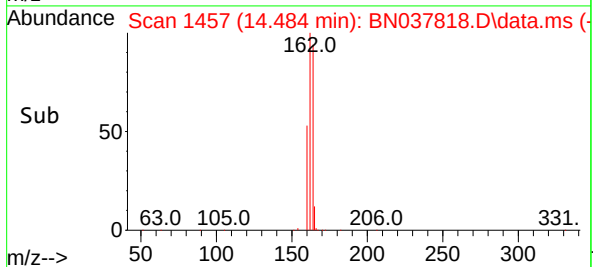
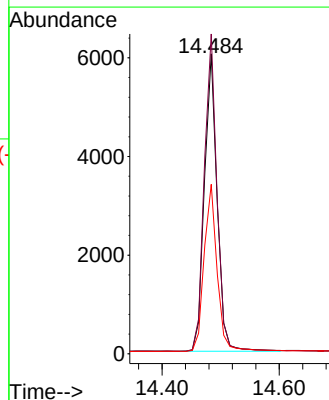
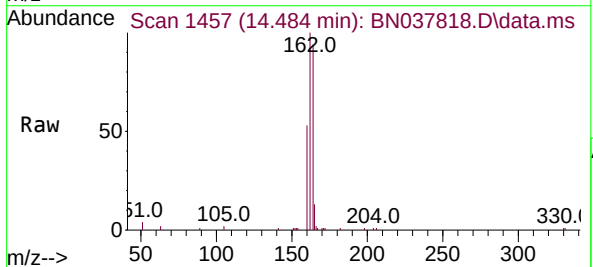
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

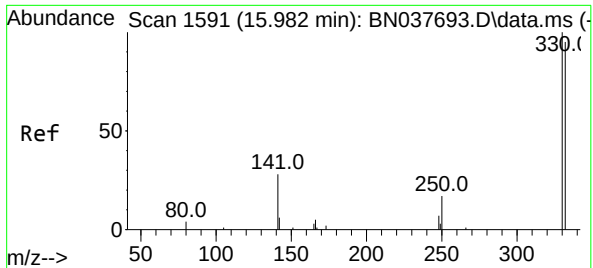
Tgt Ion:152 Resp: 2602
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:164 Resp: 9041
Ion Ratio Lower Upper
164 100
162 106.6 83.1 124.7
160 56.5 44.3 66.5

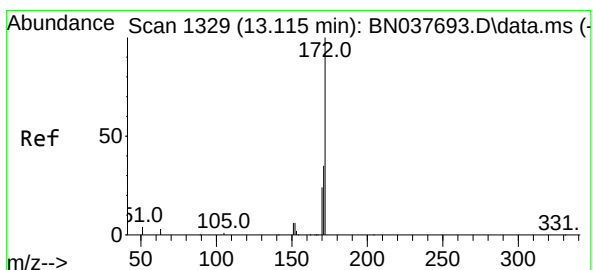
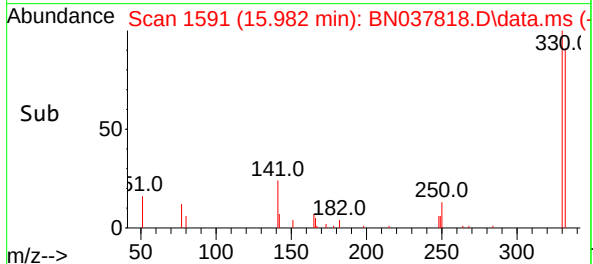
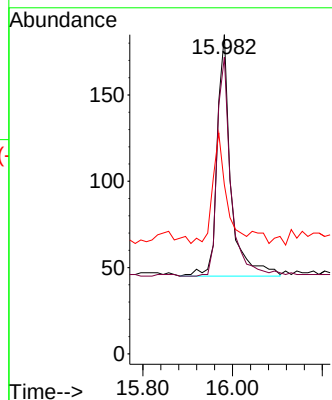
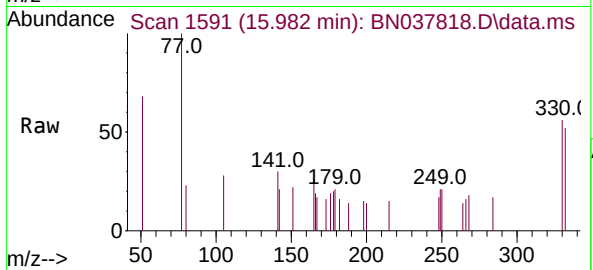




#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

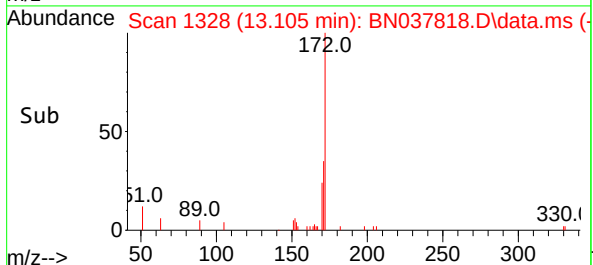
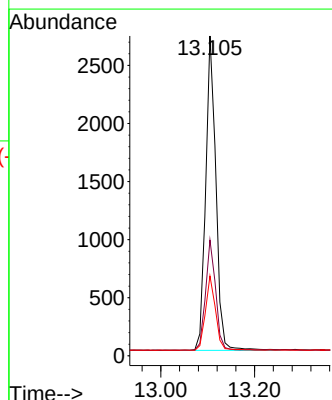
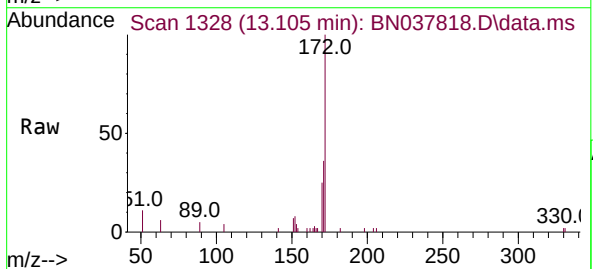
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

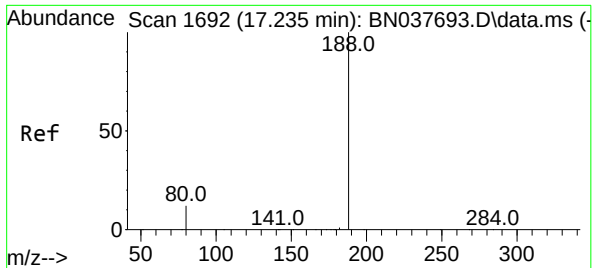
Tgt Ion:	330	Resp:	298
Ion Ratio	Lower	Upper	
330	100		
332	91.6	75.3	112.9
141	46.0	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.108 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:	172	Resp:	4101
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8

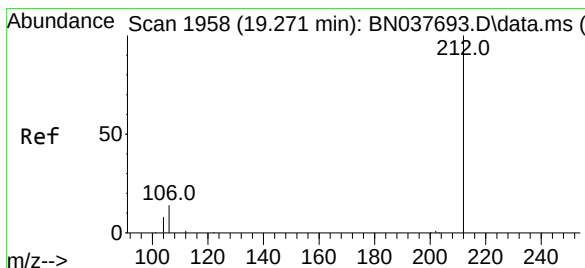
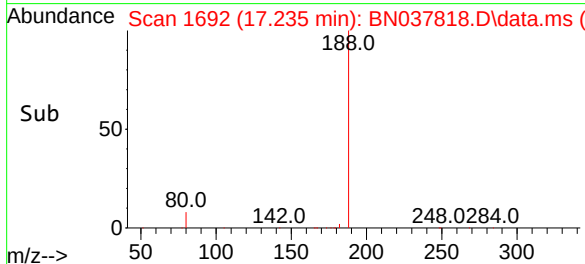
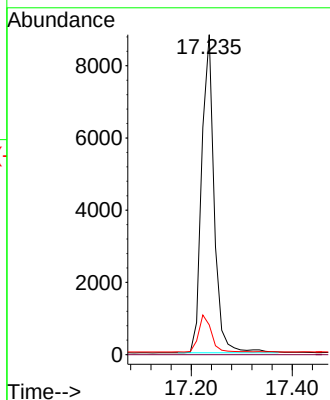
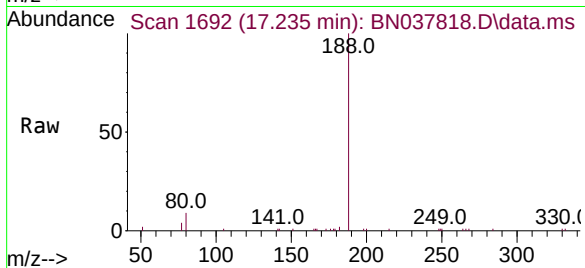




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

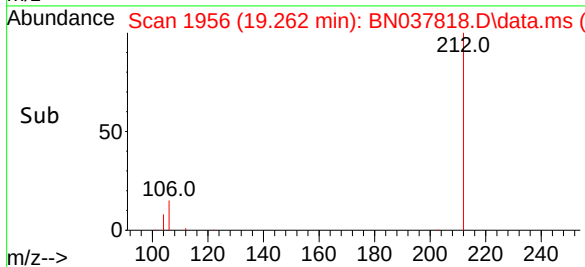
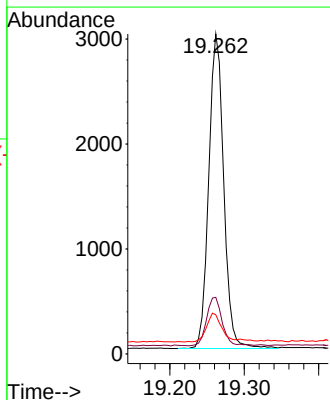
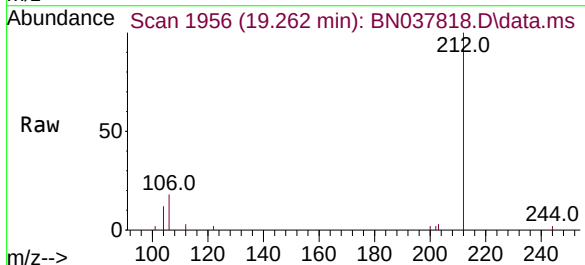
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

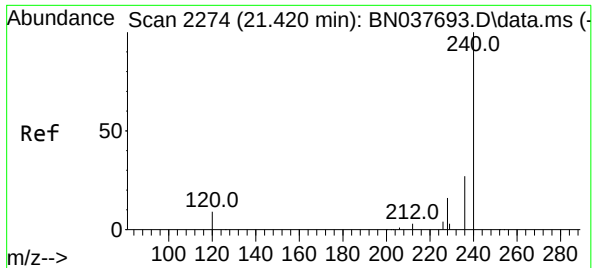
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.111 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.2	18.2
104	9.2	6.9	10.3

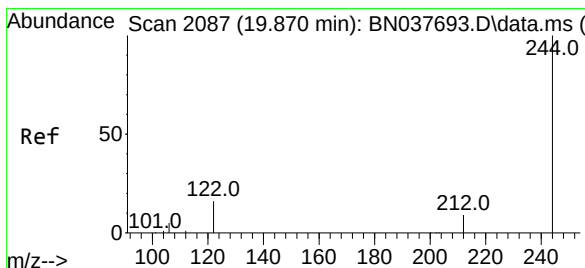
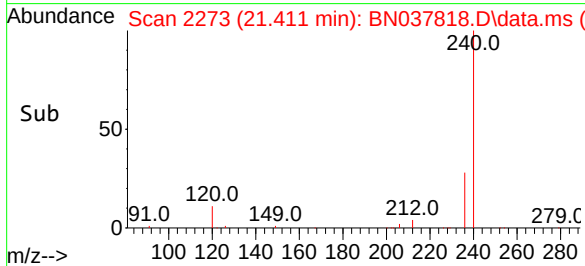
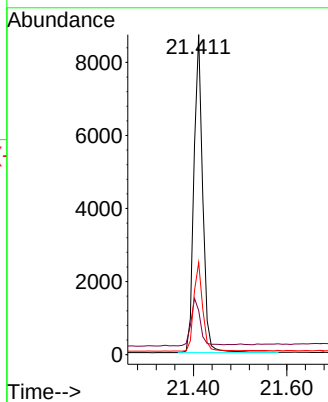
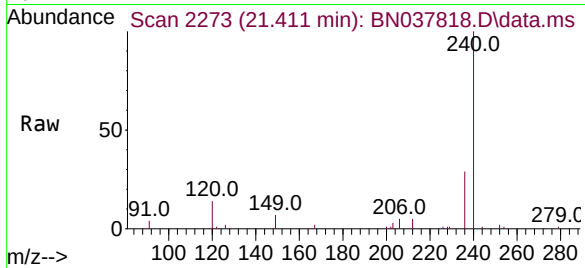




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

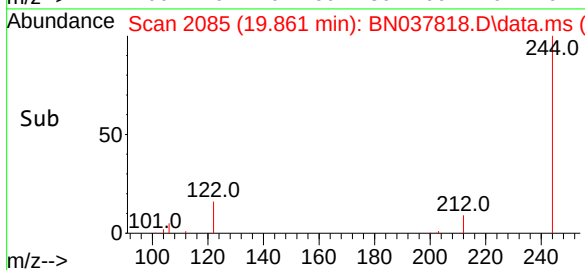
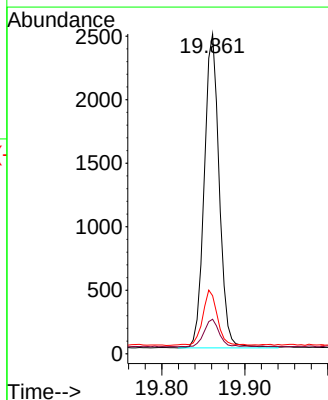
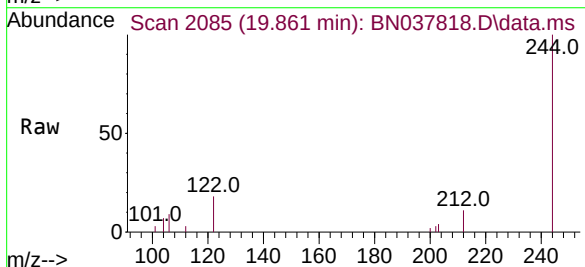
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

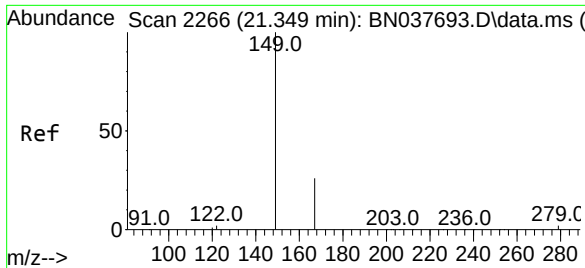
Tgt Ion:240 Resp: 11372
Ion Ratio Lower Upper
240 100
120 13.8 9.2 13.8
236 28.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.134 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:244 Resp: 3082
Ion Ratio Lower Upper
244 100
212 10.8 7.5 11.3
122 18.1 13.2 19.8

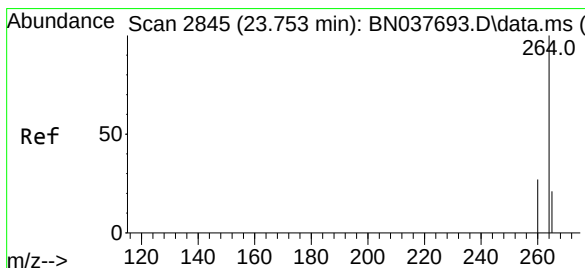
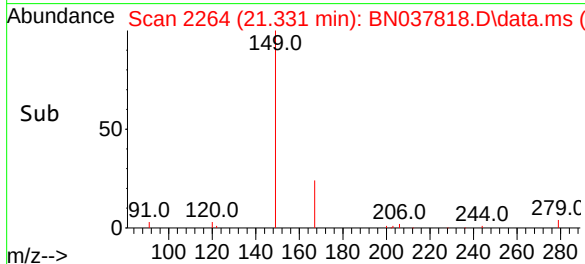
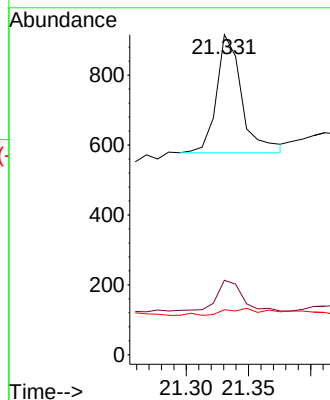
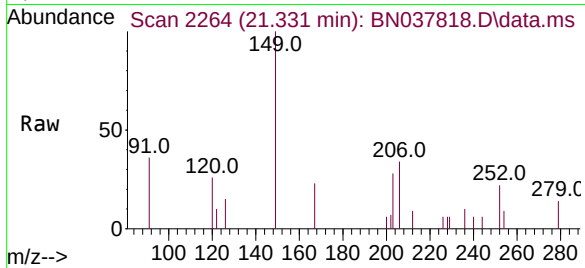




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

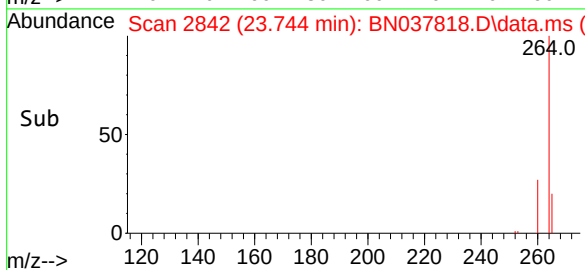
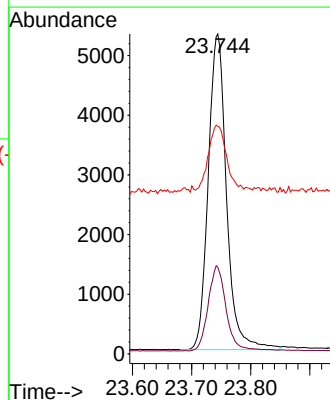
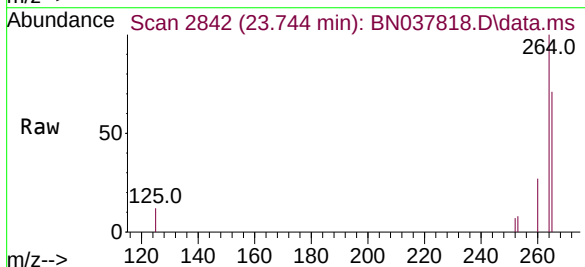
Instrument :
BNA_N
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:149 Resp: 479
Ion Ratio Lower Upper
149 100
167 25.9 20.8 31.2
279 13.8 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037818.D
Acq: 19 Sep 2025 17:21

Tgt Ion:264 Resp: 11377
Ion Ratio Lower Upper
264 100
260 27.1 21.8 32.8
265 71.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-20	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
BN037844.D	1	09/16/25 09:39	09/20/25 09:51	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5680	7.825				
1146-65-2	Naphthalene-d8	14800	10.626				
15067-26-2	Acenaphthene-d10	5980	14.484				
1517-22-2	Phenanthrene-d10	10300	17.223				
1719-03-5	Chrysene-d12	8650	21.402				
1520-96-3	Perylene-d12	8410	23.738				

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\BN091925\
Data File : BN037844.D
Acq On : 20 Sep 2025 09:51
Operator : RC/JU
Sample : Q3097-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Quant Time: Sep 22 00:37:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

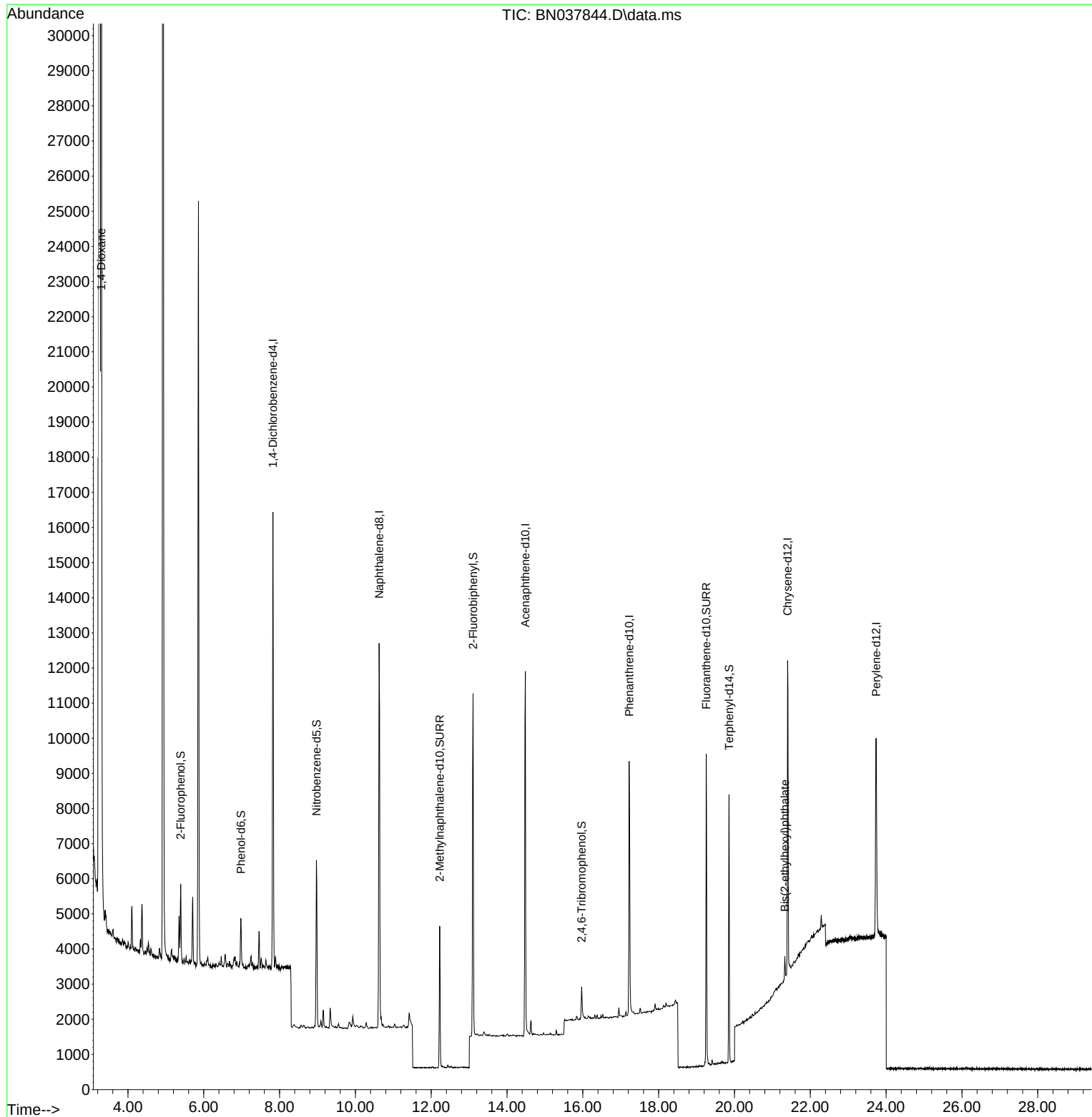
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5678	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	14769	0.400	ng	#-0.02
13) Acenaphthene-d10	14.484	164	5979	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	10331	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8651	0.400	ng	#-0.02
35) Perylene-d12	23.738	264	8407	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1684	0.129	ng	0.00
5) Phenol-d6	6.980	99	1204	0.071	ng	0.00
8) Nitrobenzene-d5	8.971	82	3919	0.363	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	5475	0.280	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	594	0.381	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8318	0.333	ng	-0.01
27) Fluoranthene-d10	19.257	212	9565	0.369	ng	-0.01
31) Terphenyl-d14	19.856	244	6944	0.395	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	43571	7.367	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	753	0.084	ng	# 96

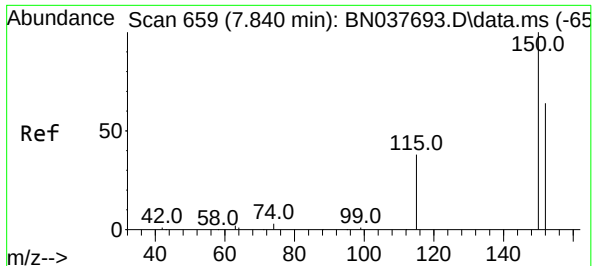
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037844.D
Acq On : 20 Sep 2025 09:51
Operator : RC/JU
Sample : Q3097-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

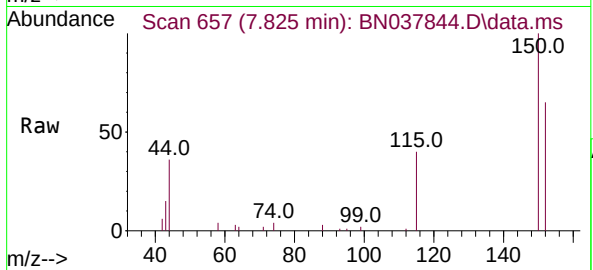
Quant Time: Sep 22 00:37:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



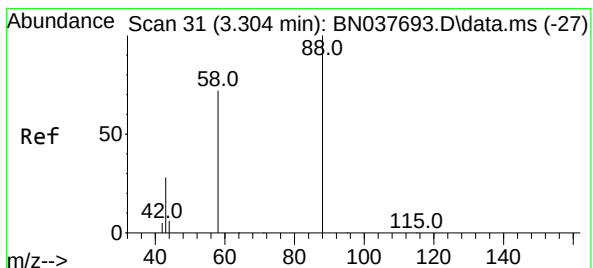
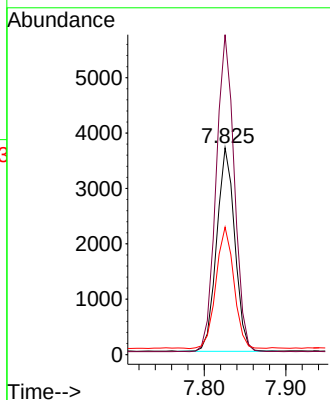
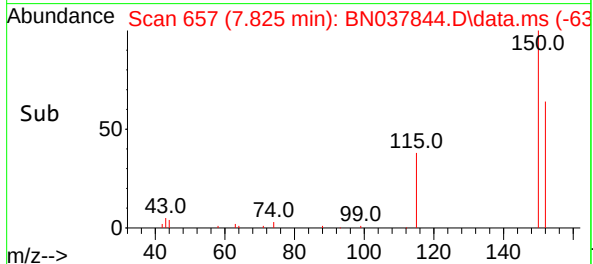


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

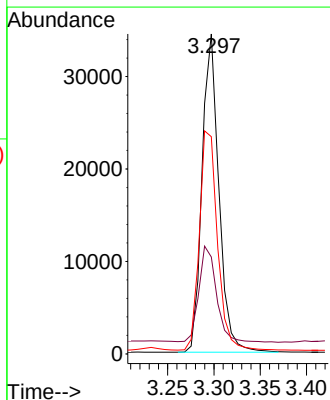
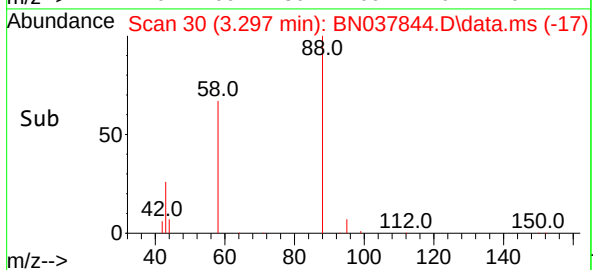
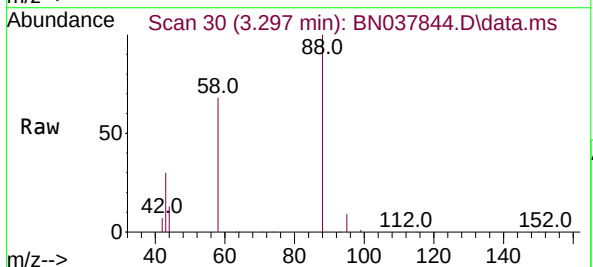


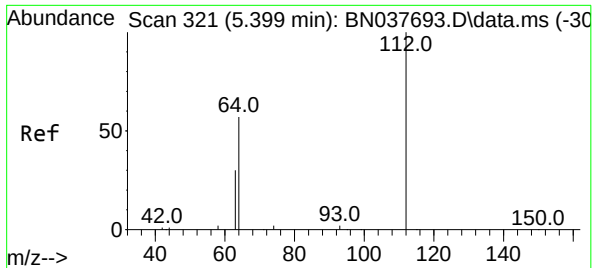
Tgt Ion:152 Resp: 5678
Ion Ratio Lower Upper
152 100
150 154.7 124.5 186.7
115 61.6 49.2 73.8



#2
1,4-Dioxane
Concen: 7.367 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 88 Resp: 43571
Ion Ratio Lower Upper
88 100
43 31.8 26.8 40.2
58 73.8 61.9 92.9

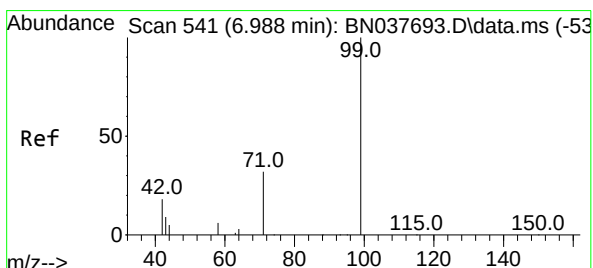
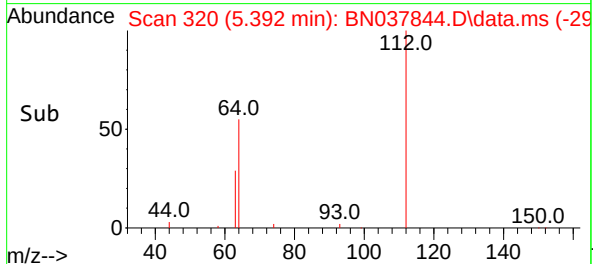
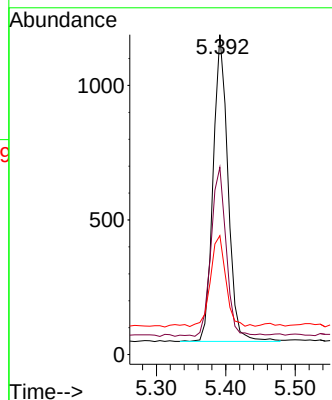
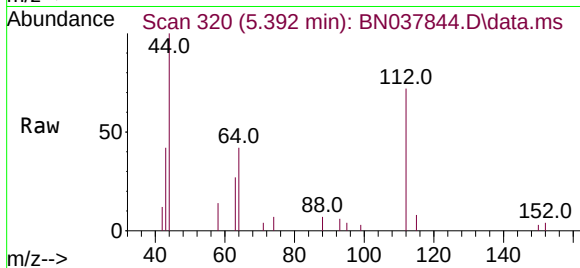




#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

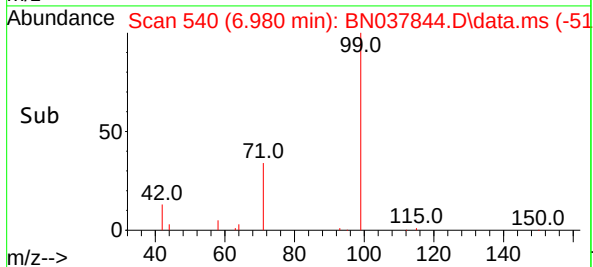
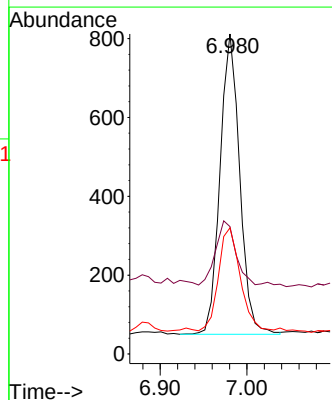
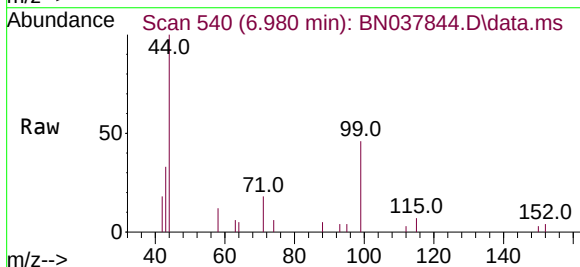
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

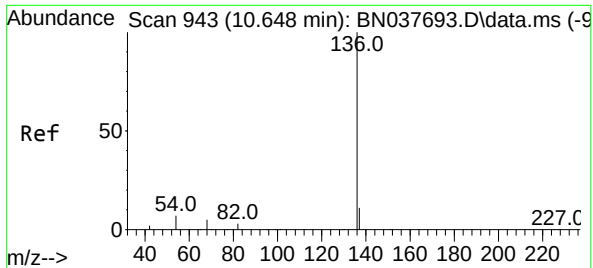
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.5	44.9	67.3
63	31.1	24.7	37.1



#5
Phenol-d6
Concen: 0.071 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.6	24.8
71	37.7	26.7	40.1

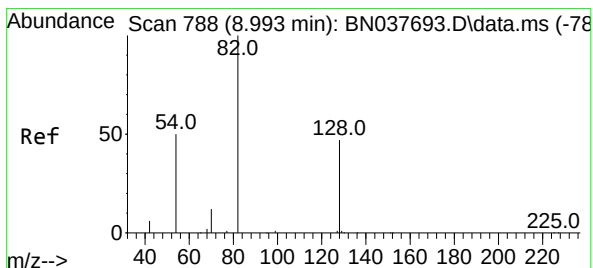
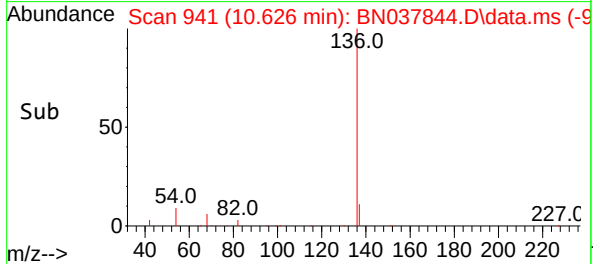
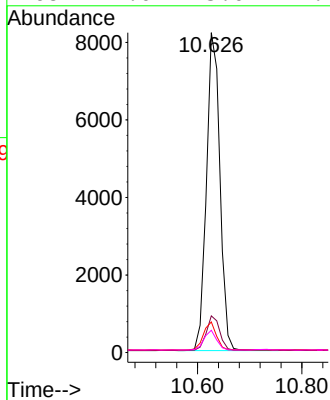
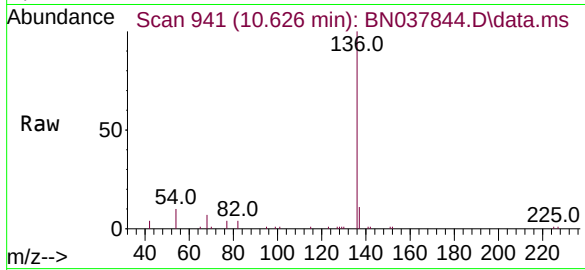




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

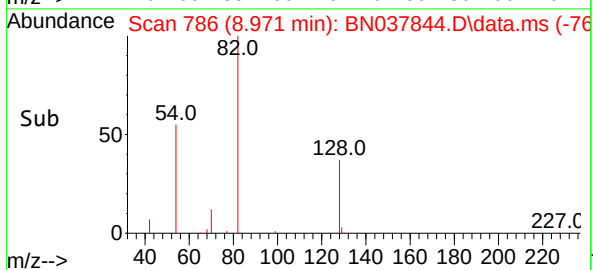
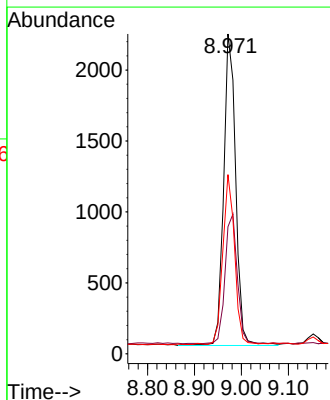
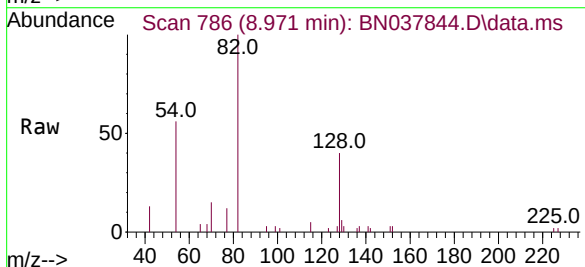
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

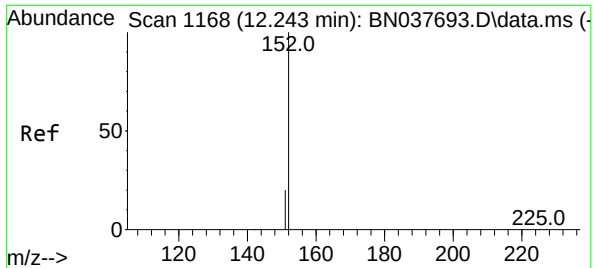
Tgt Ion:136	Resp:	14769
Ion Ratio	Lower	Upper
136	100	
137	11.5	9.1 13.7
54	9.6	6.3 9.5#
68	7.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 82	Resp:	3919
Ion Ratio	Lower	Upper
82	100	
128	39.7	38.3 57.5
54	56.0	41.4 62.2

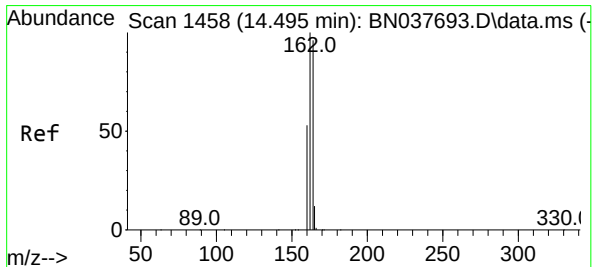
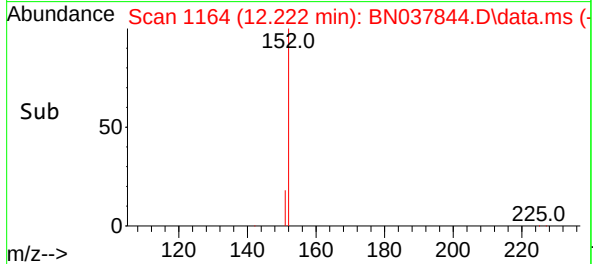
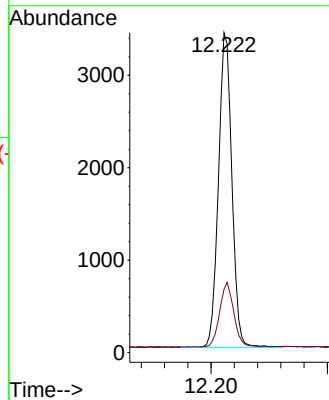
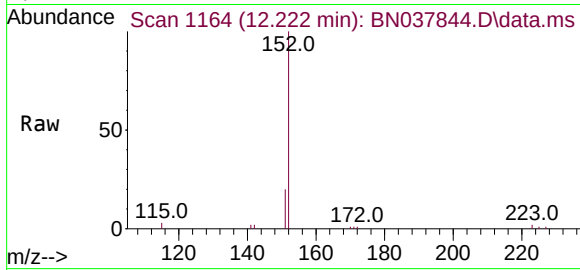




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

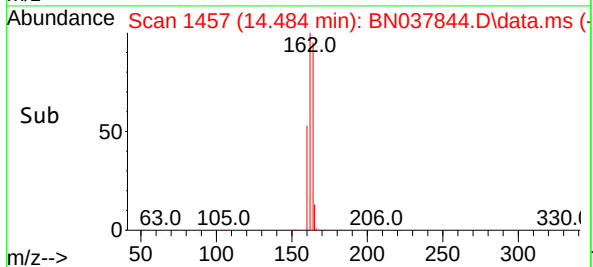
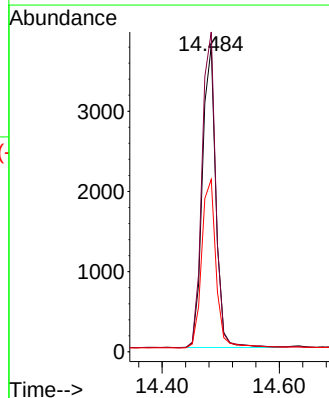
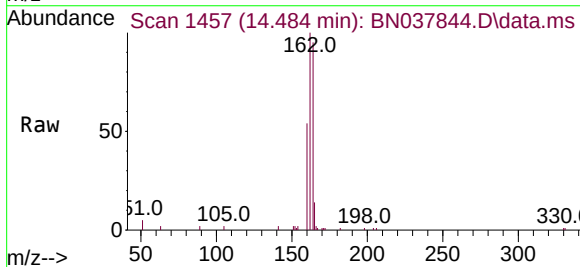
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

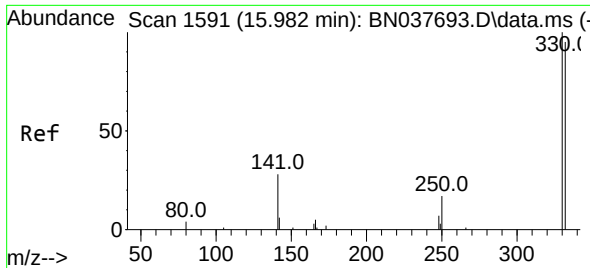
Tgt Ion:152 Resp: 5475
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:164 Resp: 5979
Ion Ratio Lower Upper
164 100
162 104.9 83.1 124.7
160 56.5 44.3 66.5

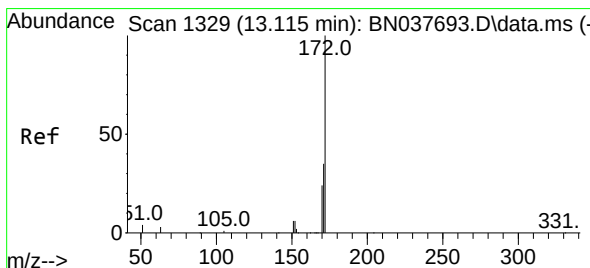
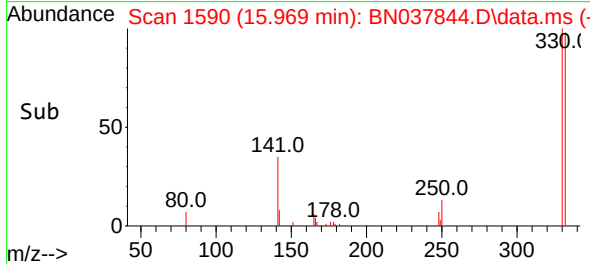
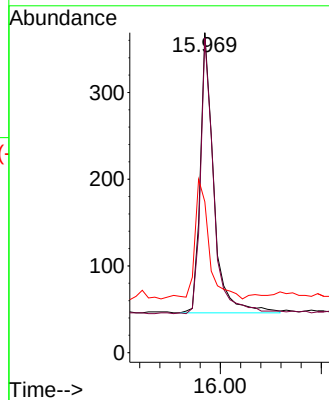
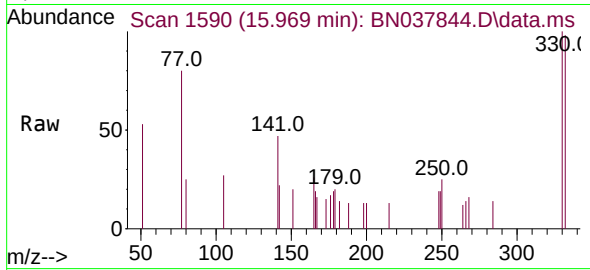




#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

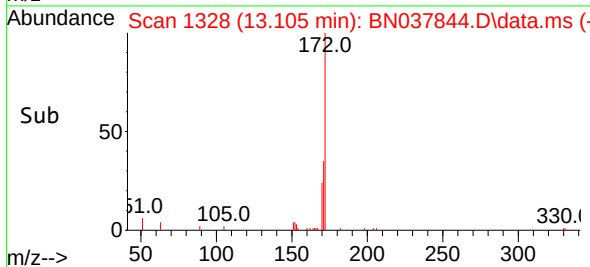
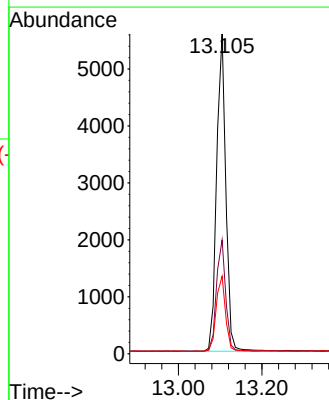
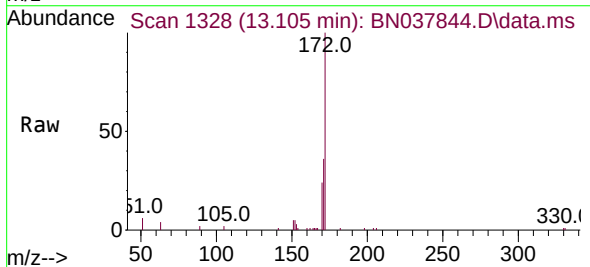
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

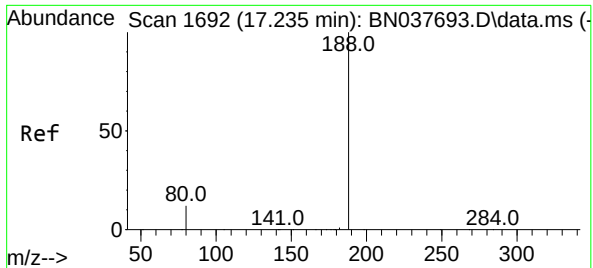
Tgt Ion: 330 Resp: 594
Ion Ratio Lower Upper
330 100
332 97.0 75.3 112.9
141 44.9 35.0 52.4



#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion: 172 Resp: 8318
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 24.3 19.8 29.8

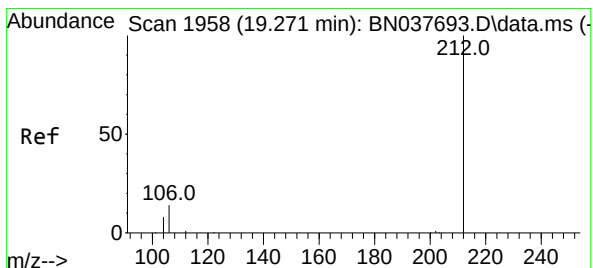
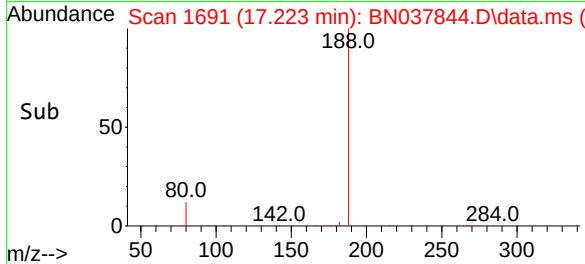
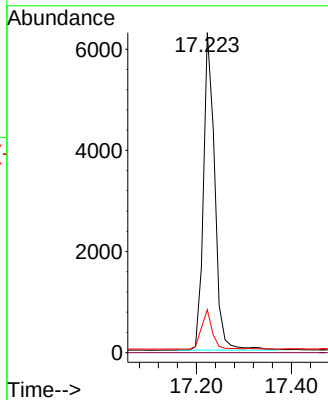
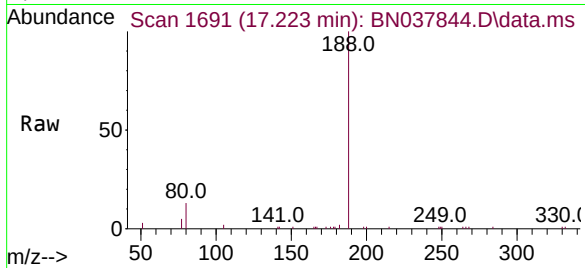




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.013 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

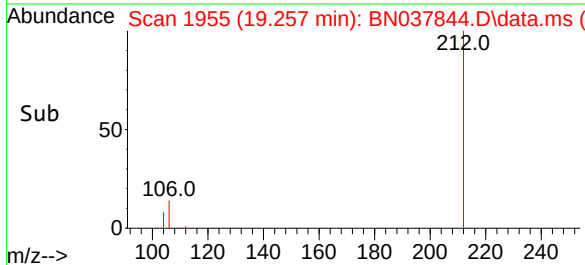
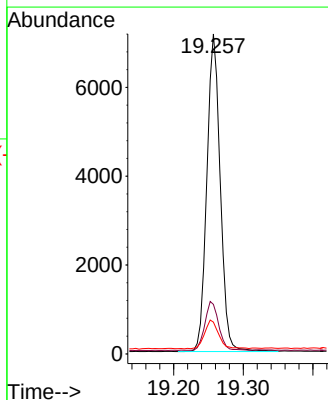
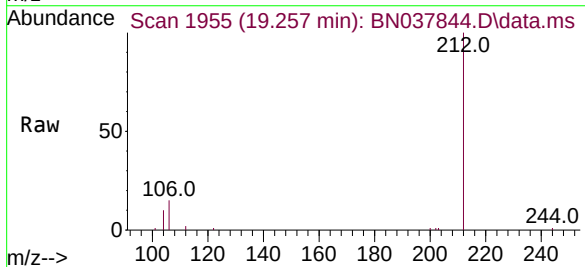
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

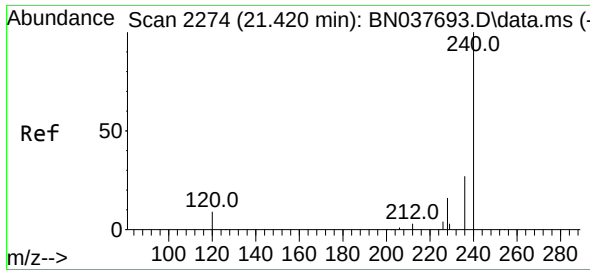
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.5	6.9	10.3

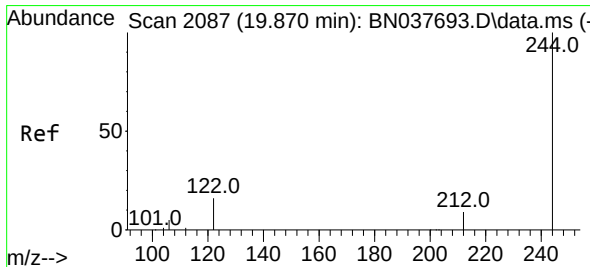
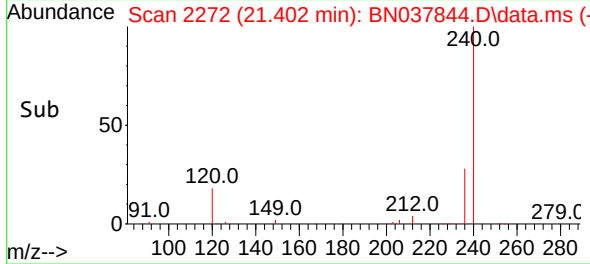
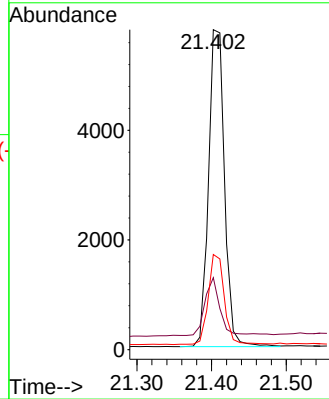
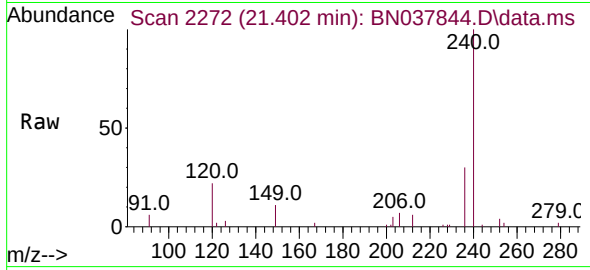




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

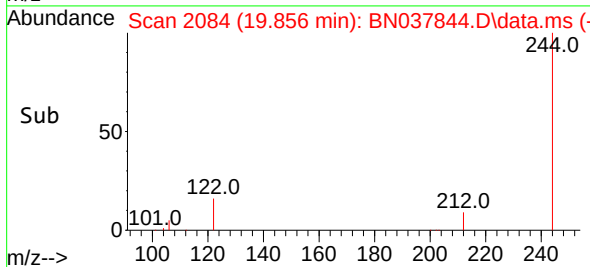
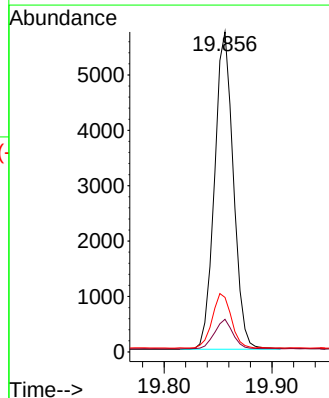
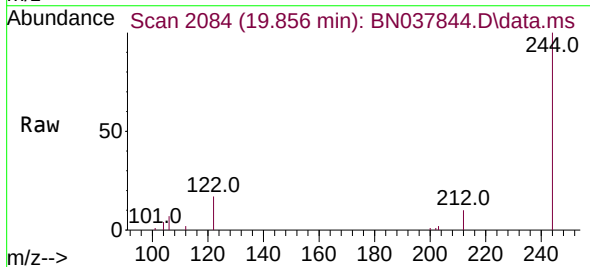
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

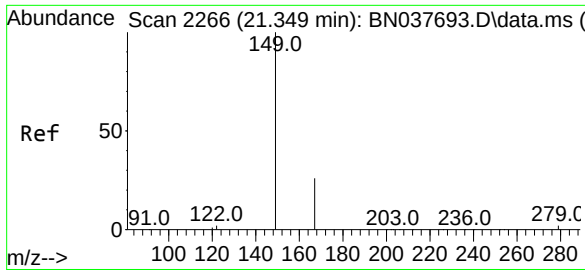
Tgt Ion:240 Resp: 8651
Ion Ratio Lower Upper
240 100
120 22.5 9.2 13.8#
236 29.7 22.6 33.8



#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:244 Resp: 6944
Ion Ratio Lower Upper
244 100
212 10.2 7.5 11.3
122 17.1 13.2 19.8

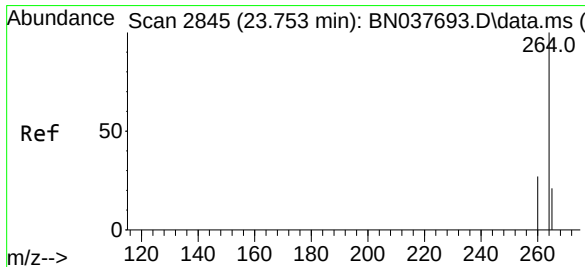
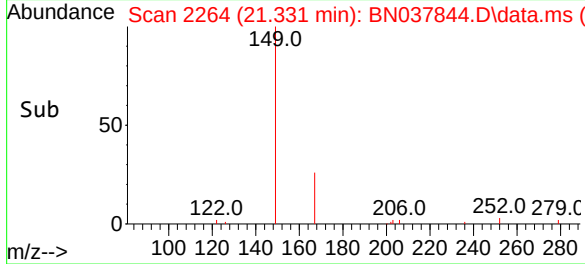
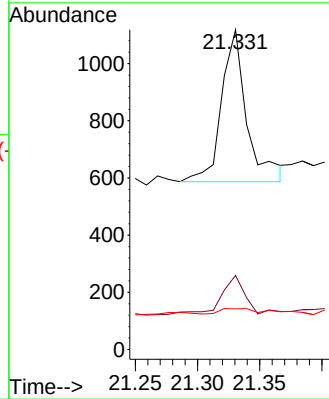
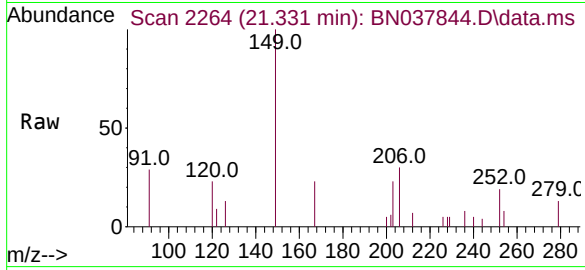




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

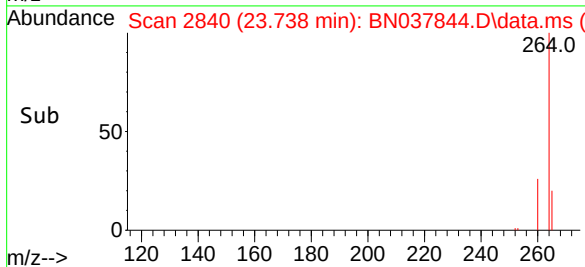
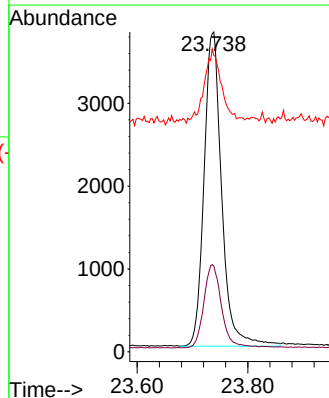
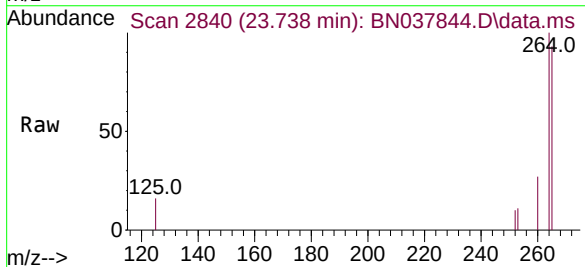
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912

Tgt Ion:149 Resp: 753
Ion Ratio Lower Upper
149 100
167 24.6 20.8 31.2
279 8.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037844.D
Acq: 20 Sep 2025 09:51

Tgt Ion:264 Resp: 8407
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 92.7 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	DUP06-20250912DL		SDG No.:	Q3097
Lab Sample ID:	Q3097-20DL		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
BN037858.D	2	09/16/25 09:39	09/22/25 15:45	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.70	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5110		7.825			
1146-65-2	Naphthalene-d8	13200		10.626			
15067-26-2	Acenaphthene-d10	5440		14.473			
1517-22-2	Phenanthrene-d10	9910		17.223			
1719-03-5	Chrysene-d12	8650		21.402			
1520-96-3	Perylene-d12	8020		23.735			

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\BN092225\
Data File : BN037858.D
Acq On : 22 Sep 2025 15:45
Operator : RC/JU
Sample : Q3097-20DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Quant Time: Sep 22 16:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

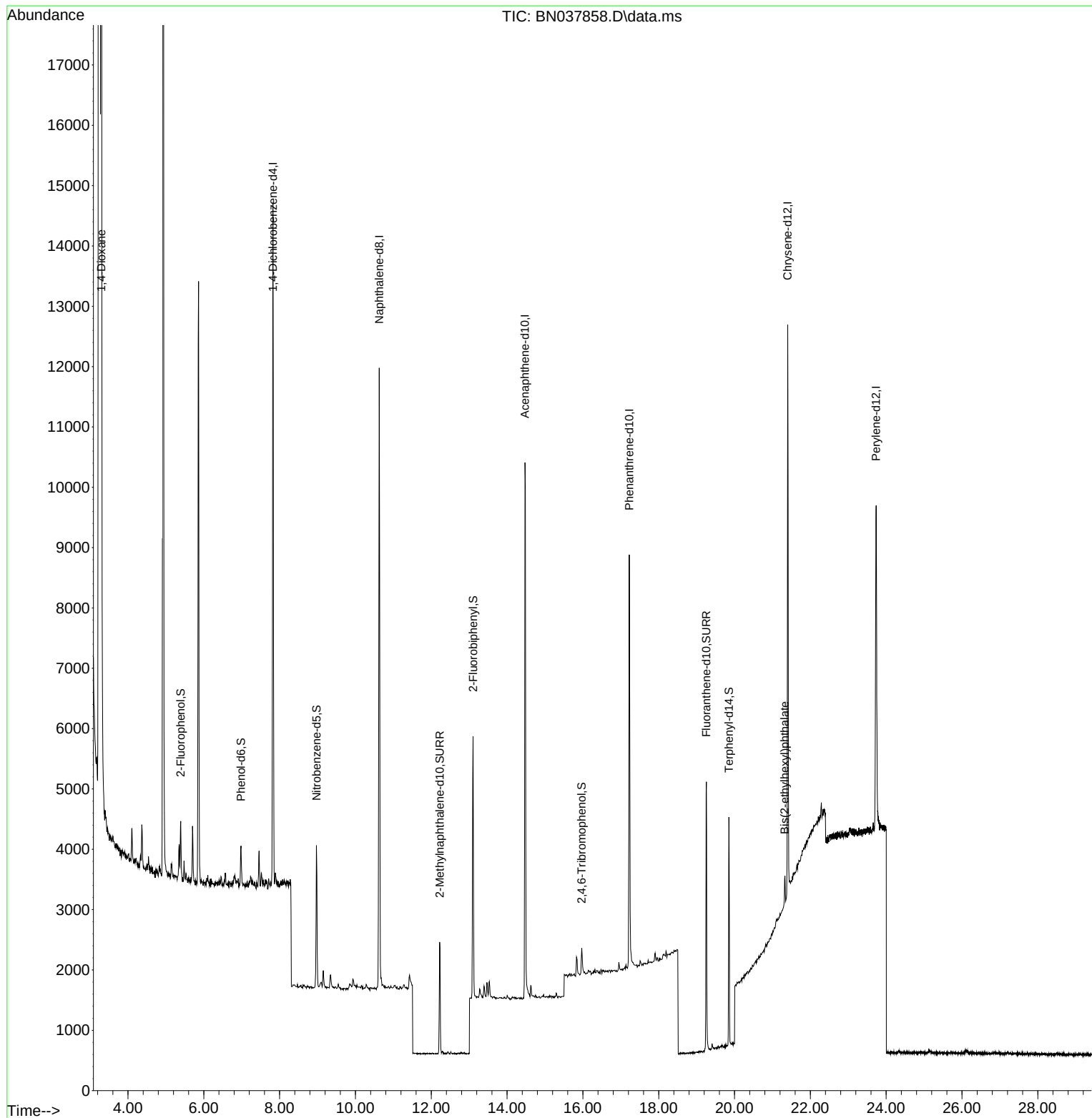
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5114	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	13234	0.400	ng	-0.02
13) Acenaphthene-d10	14.473	164	5436	0.400	ng	-0.02
19) Phenanthrene-d10	17.223	188	9913	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8645	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	8016	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	810	0.069	ng	0.00
5) Phenol-d6	6.980	99	617	0.041	ng	0.00
8) Nitrobenzene-d5	8.971	82	1888	0.195	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2540	0.145	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	303	0.214	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4017	0.177	ng	-0.01
27) Fluoranthene-d10	19.257	212	4937	0.198	ng	-0.01
31) Terphenyl-d14	19.852	244	3674	0.209	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.297	88	20584	3.864	ng	97
34) Bis(2-ethylhexyl)phtha...	21.322	149	604	0.068	ng	# 90

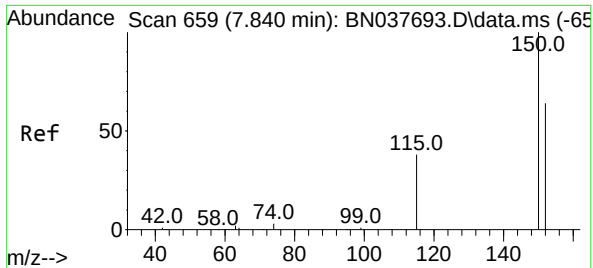
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037858.D
Acq On : 22 Sep 2025 15:45
Operator : RC/JU
Sample : Q3097-20DL 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

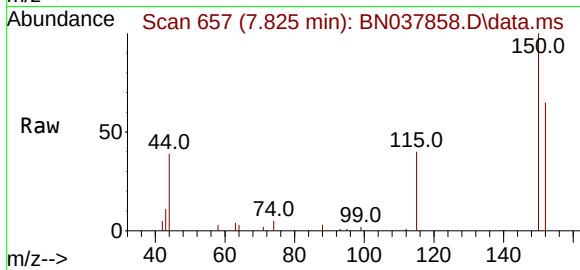
Quant Time: Sep 22 16:49:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



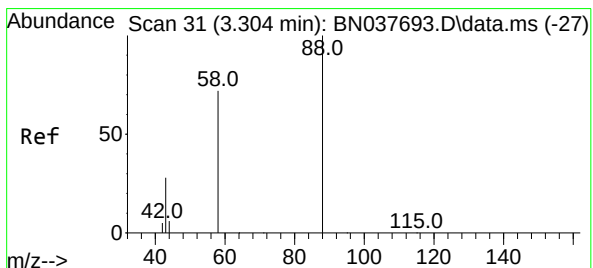
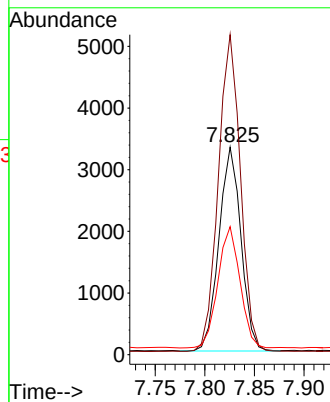
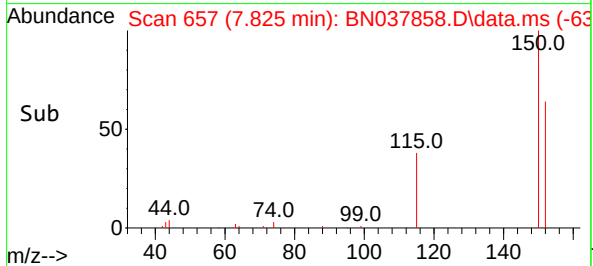


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

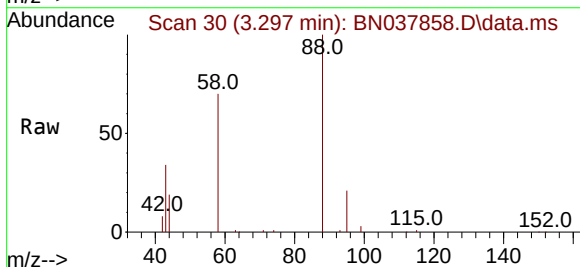
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL



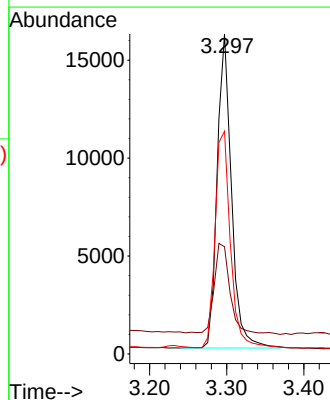
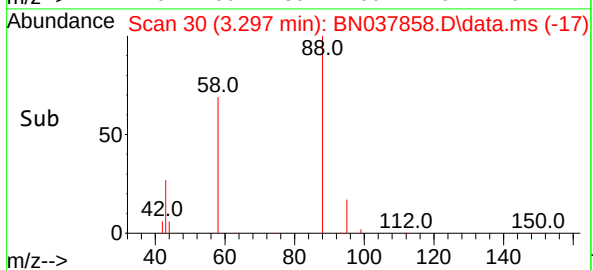
Tgt Ion:152 Resp: 5114
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 61.6 49.2 73.8

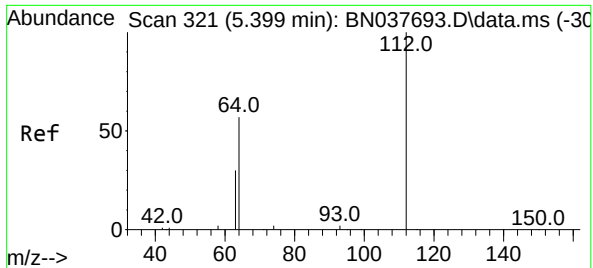


#2
1,4-Dioxane
Concen: 3.864 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45



Tgt Ion: 88 Resp: 20584
Ion Ratio Lower Upper
88 100
43 32.5 26.8 40.2
58 73.7 61.9 92.9

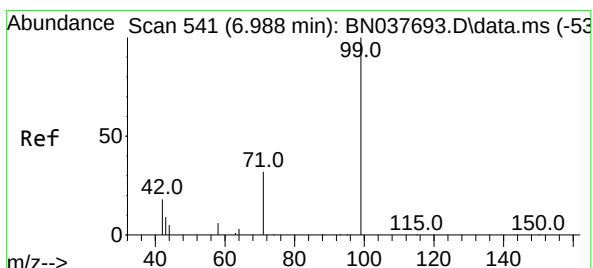
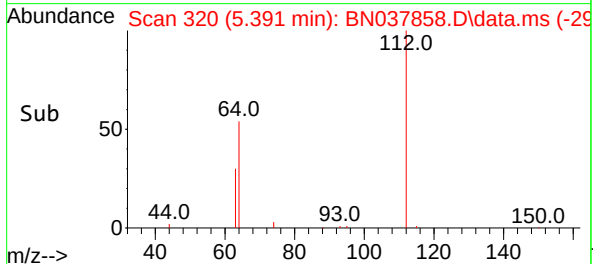
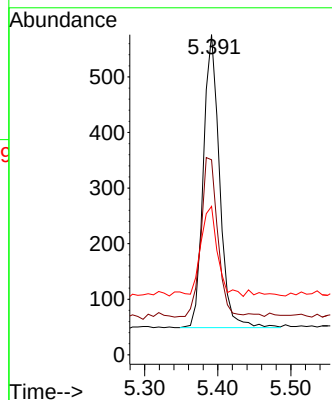
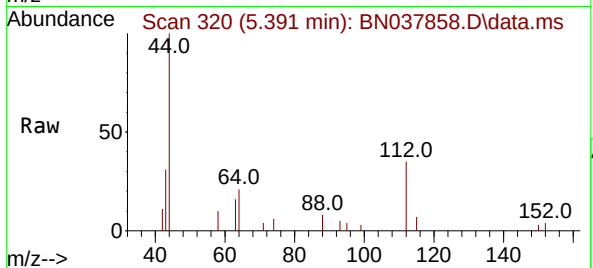




#4
2-Fluorophenol
Concen: 0.069 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

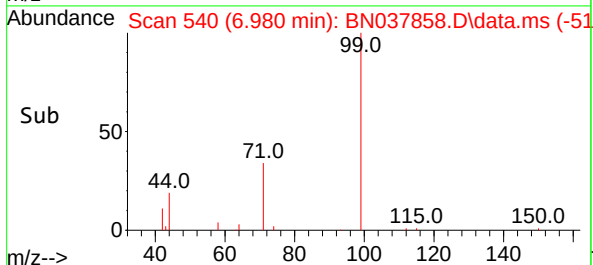
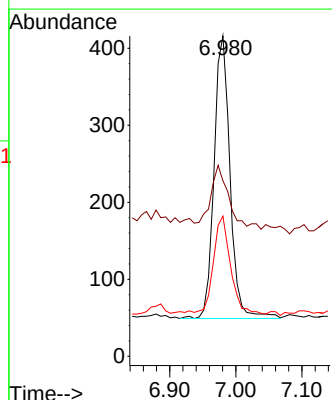
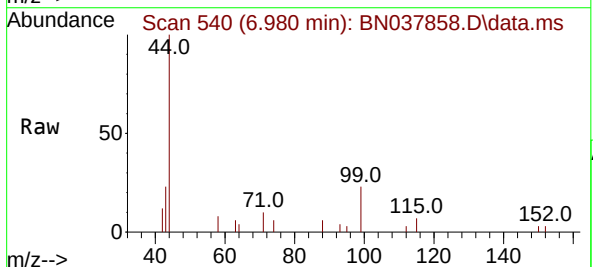
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

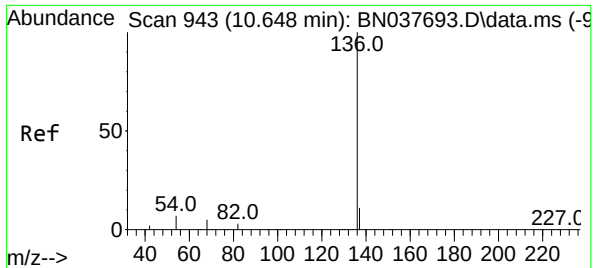
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	44.9	67.3
63	33.0	24.7	37.1



#5
Phenol-d6
Concen: 0.041 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.3	16.6	24.8
71	37.4	26.7	40.1

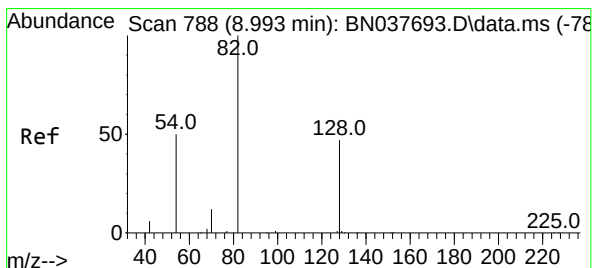
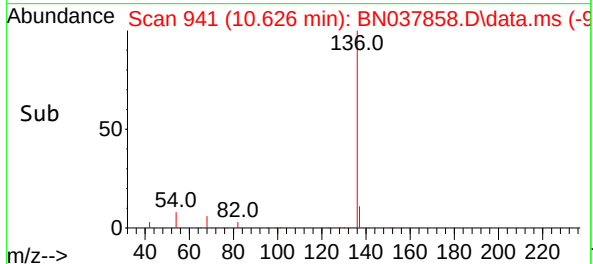
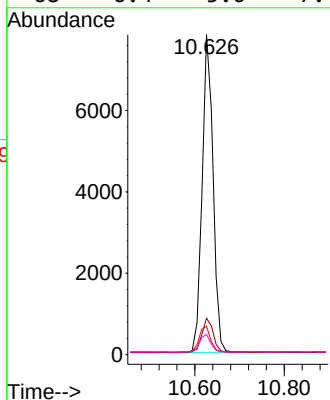
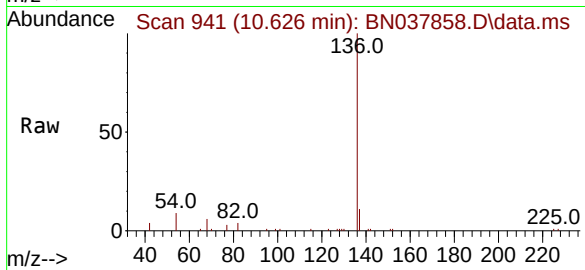




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

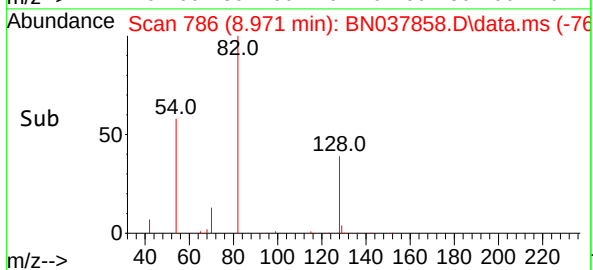
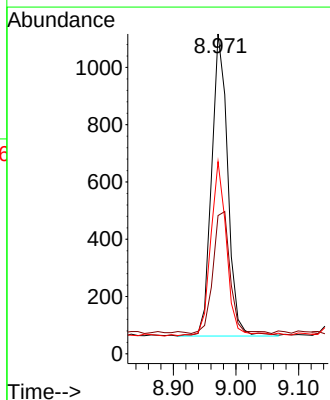
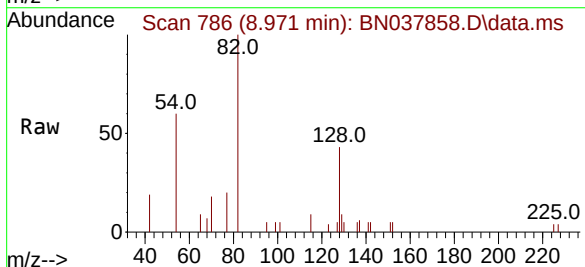
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

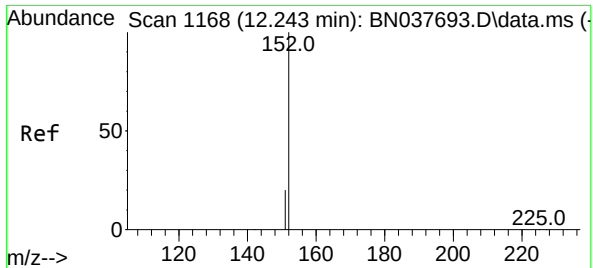
Tgt Ion:	136	Resp:	13234
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.9	6.3	9.5
68	6.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:	82	Resp:	1888
Ion	Ratio	Lower	Upper
82	100		
128	43.2	38.3	57.5
54	60.1	41.4	62.2

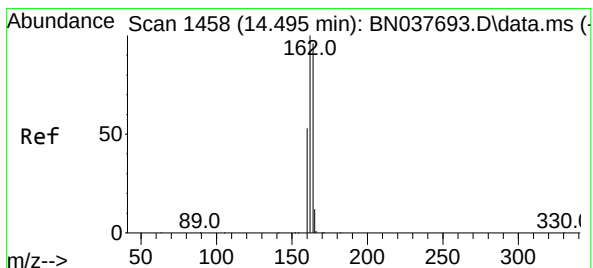
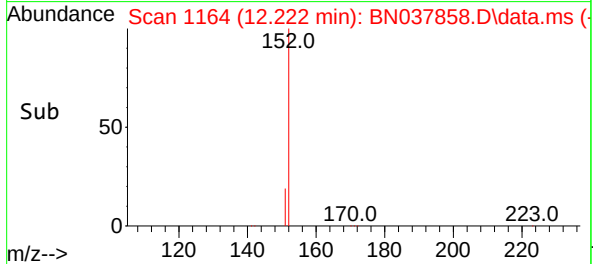
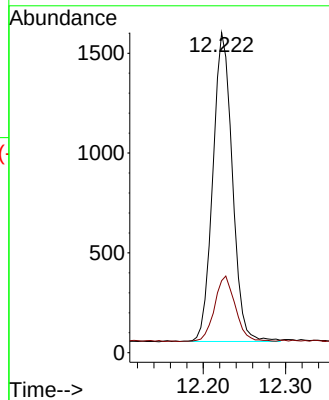
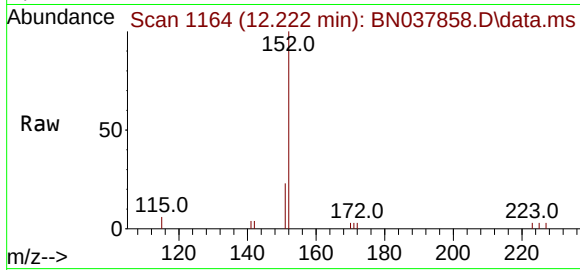




#11
2-Methylnaphthalene-d10
Concen: 0.145 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

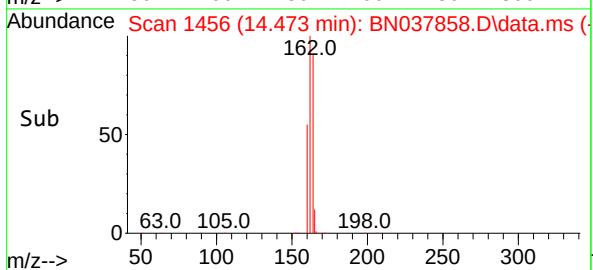
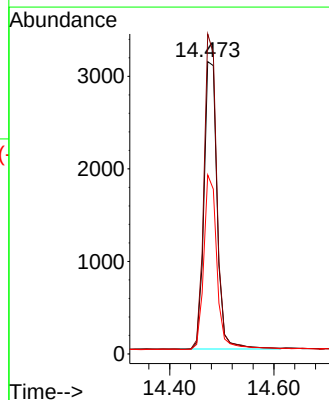
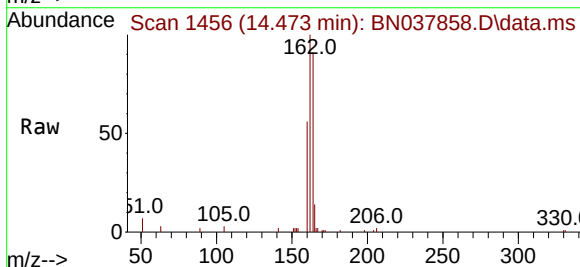
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

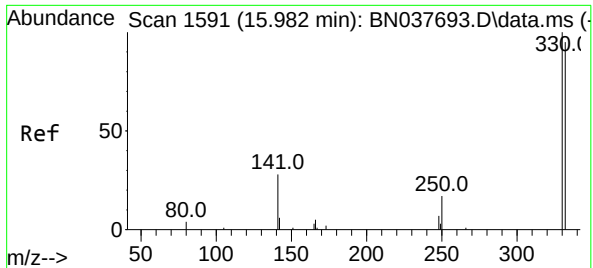
Tgt Ion:152 Resp: 2540
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.022 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:164 Resp: 5436
Ion Ratio Lower Upper
164 100
162 109.5 83.1 124.7
160 61.3 44.3 66.5

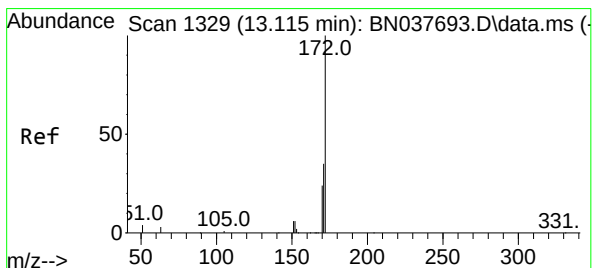
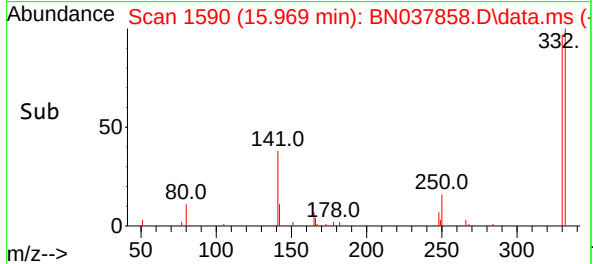
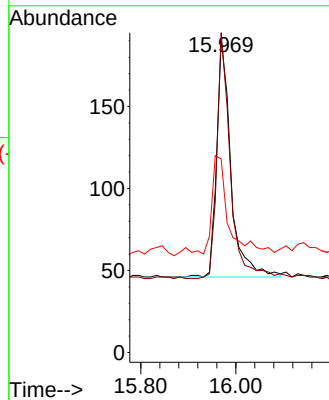
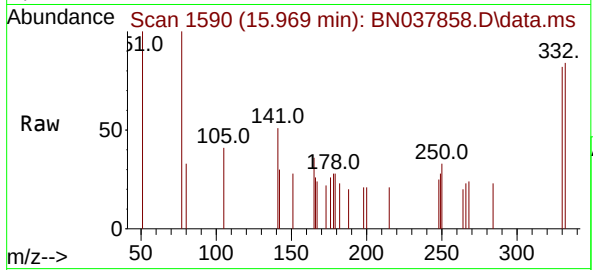




#14
2,4,6-Tribromophenol
Concen: 0.214 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

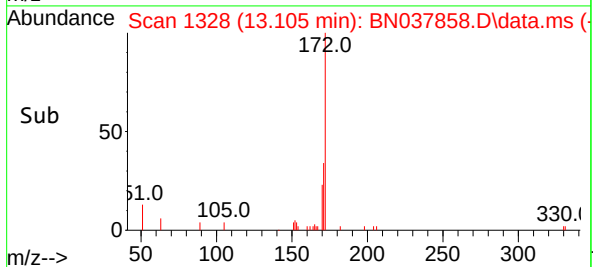
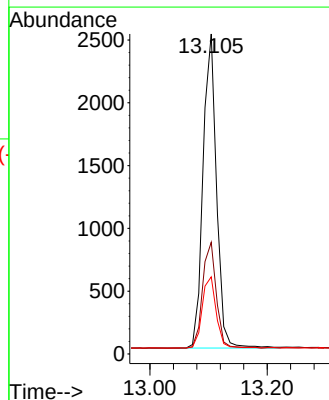
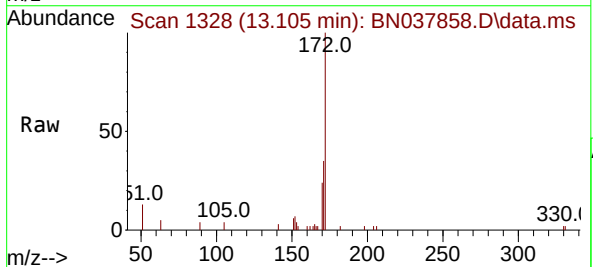
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

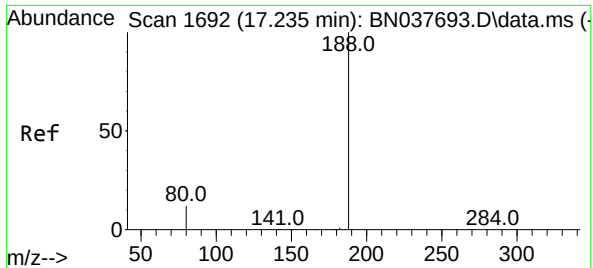
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	97.7		75.3	112.9	
141	45.9		35.0	52.4	



#15
2-Fluorobiphenyl
Concen: 0.177 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	34.9		28.6	43.0	
170	24.1		19.8	29.8	

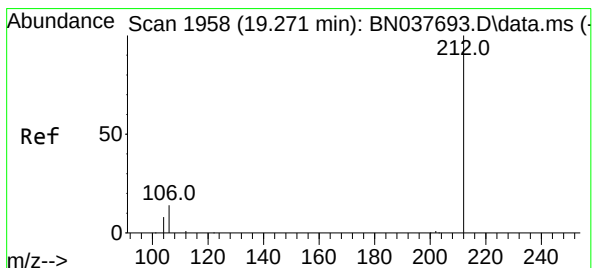
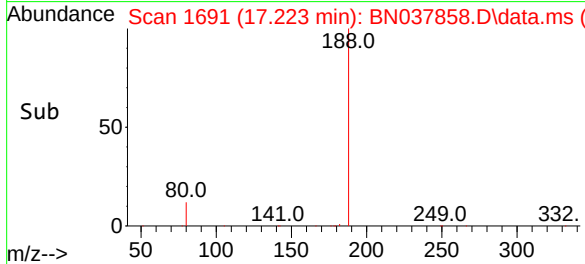
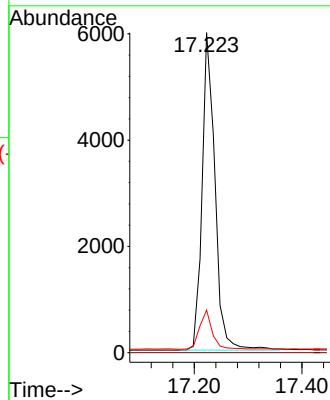
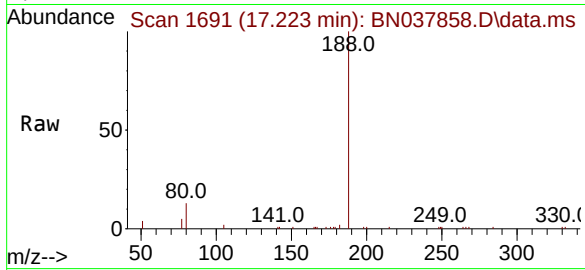




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 10
Delta R.T. -0.013 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

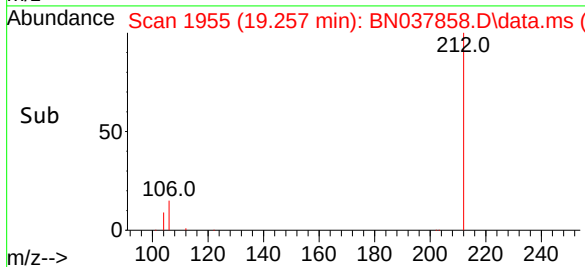
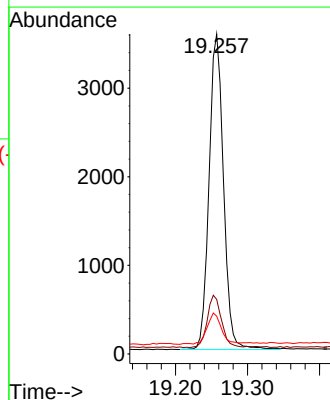
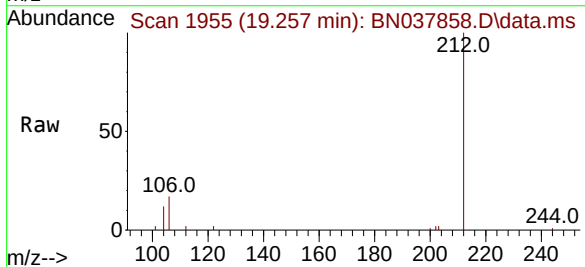
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

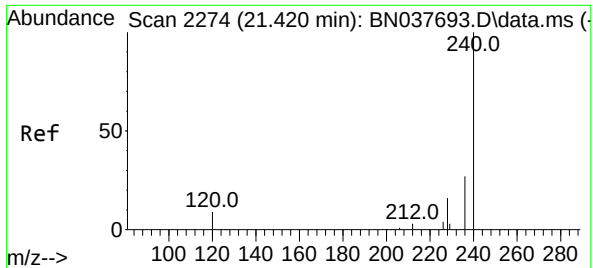
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.198 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.3	12.2	18.2
104	10.0	6.9	10.3

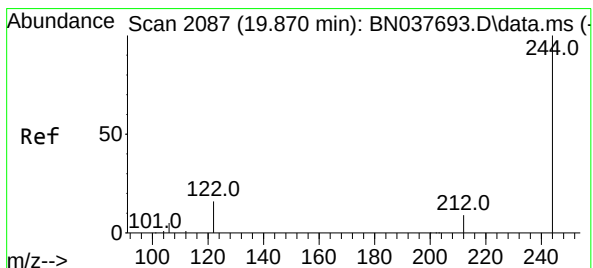
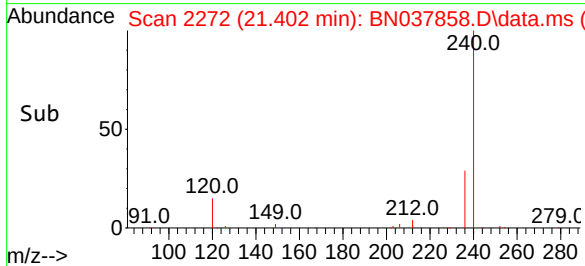
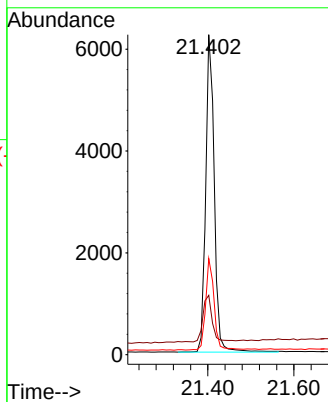
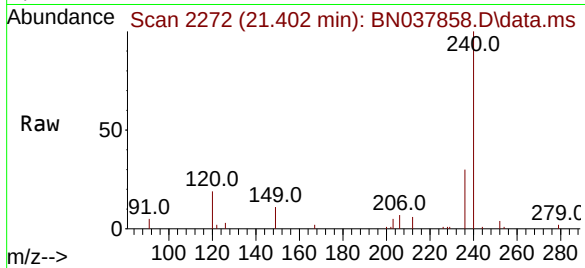




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

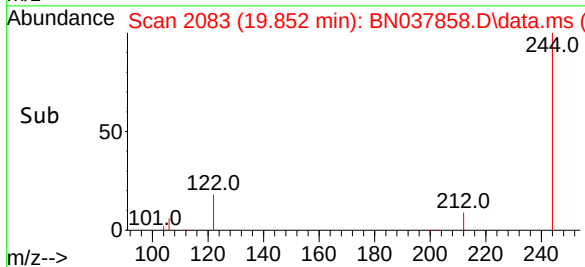
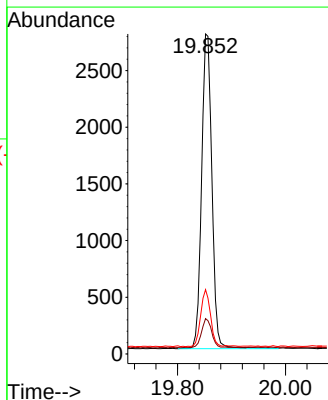
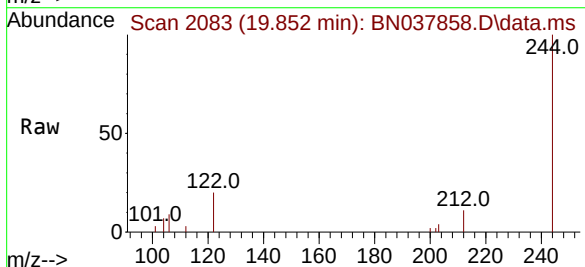
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

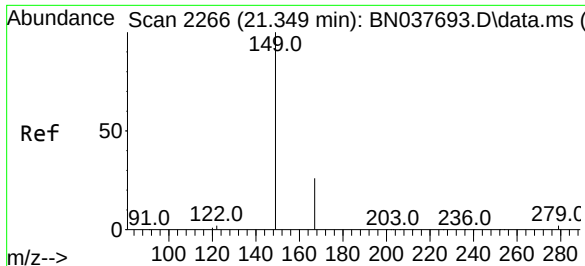
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.5	9.2	13.8#
236	30.0	22.6	33.8



#31
Terphenyl-d14
Concen: 0.209 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.5	11.3
122	20.1	13.2	19.8#

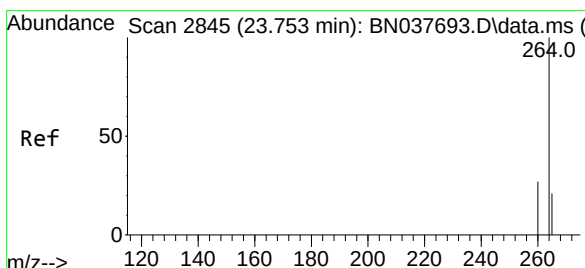
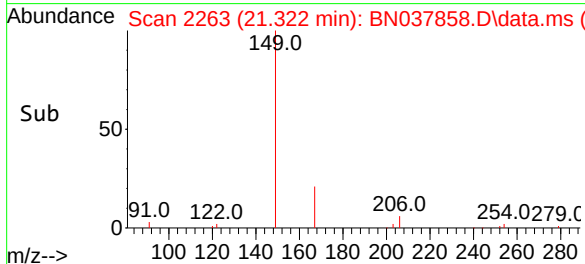
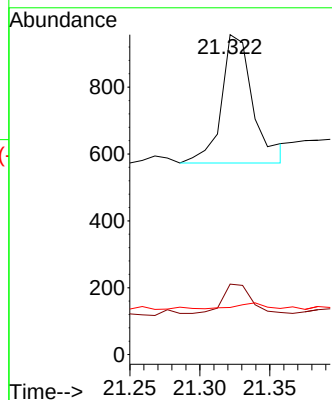
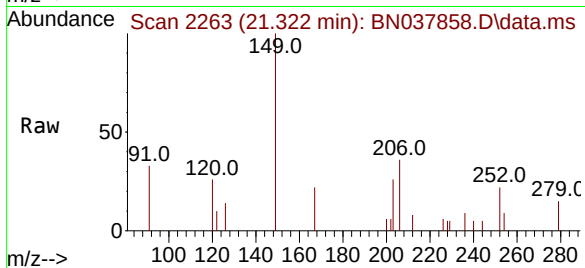




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.068 ng
RT: 21.322 min Scan# 21322
Delta R.T. -0.027 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

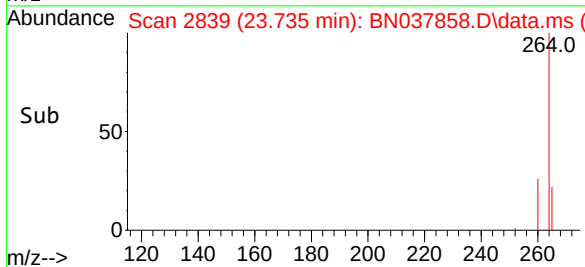
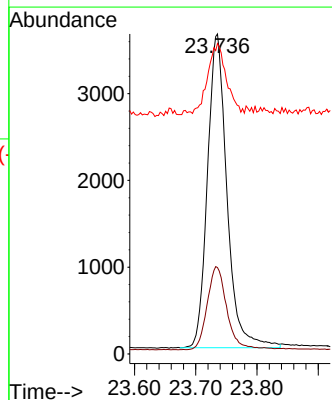
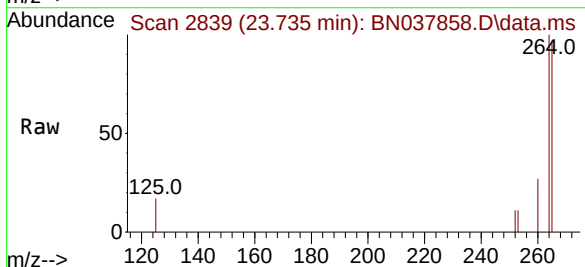
Instrument :
BNA_N
ClientSampleId :
DUP06-20250912DL

Tgt Ion:149 Resp: 604
Ion Ratio Lower Upper
149 100
167 20.4 20.8 31.2#
279 3.8 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037858.D
Acq: 22 Sep 2025 15:45

Tgt Ion:264 Resp: 8016
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 97.0 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-21	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
BN037819.D	1	09/16/25 09:39	09/19/25 17:58	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	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	4690	7.833				
1146-65-2	Naphthalene-d8	12200	10.637				
15067-26-2	Acenaphthene-d10	5200	14.484				
1517-22-2	Phenanthrene-d10	9590	17.235				
1719-03-5	Chrysene-d12	7870	21.411				
1520-96-3	Perylene-d12	7670	23.744				

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\BN091925\
Data File : BN037819.D
Acq On : 19 Sep 2025 17:58
Operator : RC/JU
Sample : Q3097-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Quant Time: Sep 19 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

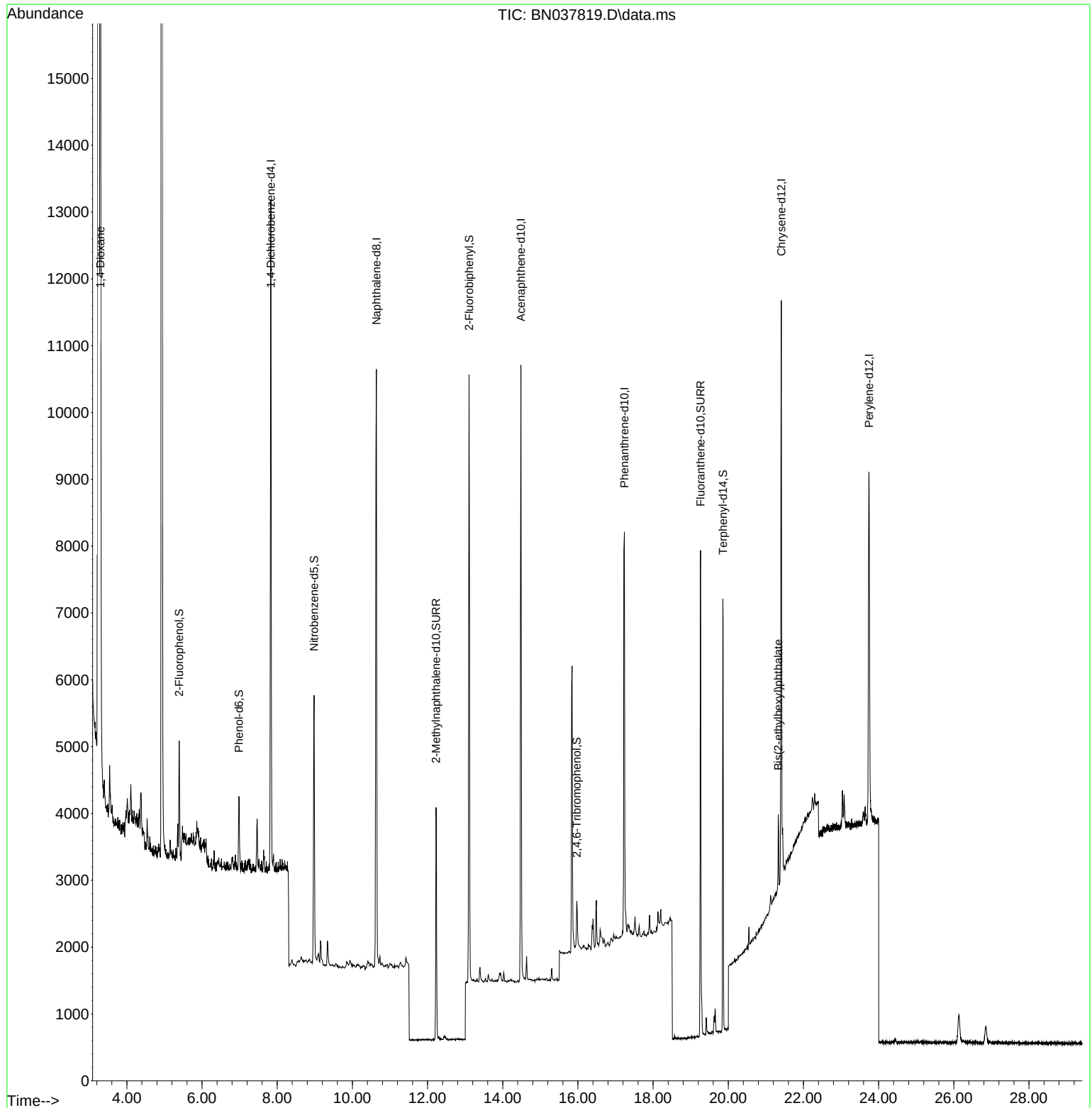
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4690	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12247	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5203	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9585	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	7866	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	7673	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1407	0.131	ng	0.00
5) Phenol-d6	6.981	99	1025	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	3219	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4735	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	492	0.363	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7423	0.341	ng	-0.01
27) Fluoranthene-d10	19.262	212	8095	0.336	ng	0.00
31) Terphenyl-d14	19.857	244	6189	0.388	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	15832	3.241	ng	97
34) Bis(2-ethylhexyl)phtha...	21.331	149	1054	0.130	ng	# 98

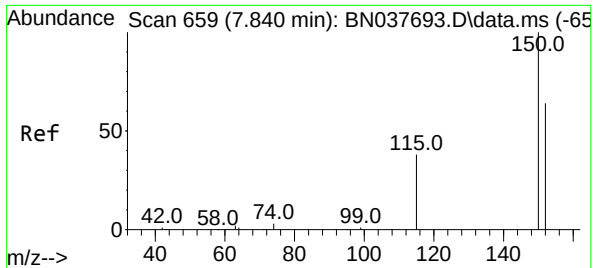
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037819.D
Acq On : 19 Sep 2025 17:58
Operator : RC/JU
Sample : Q3097-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

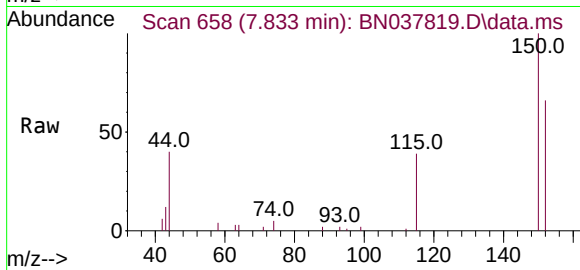
Quant Time: Sep 19 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



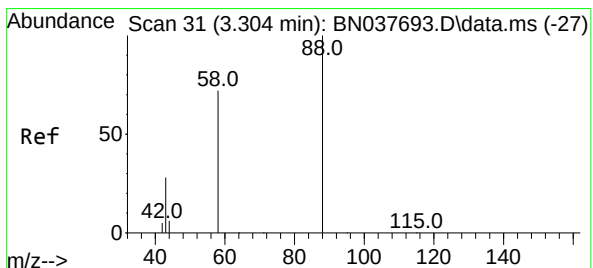
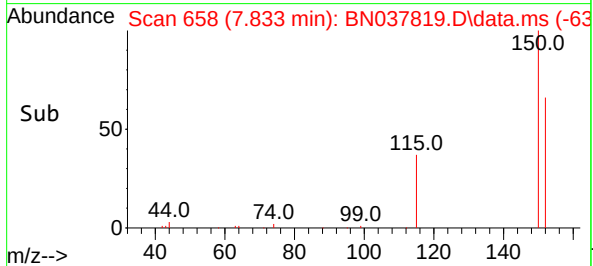
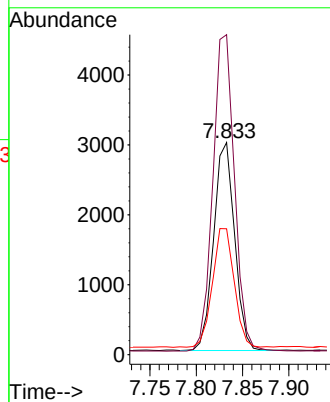


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

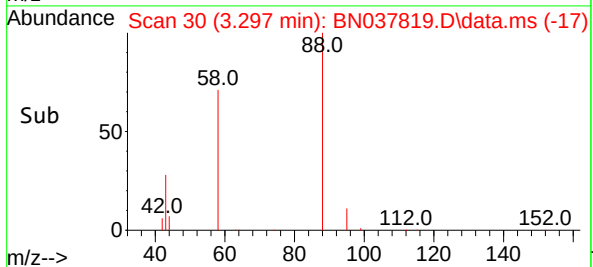
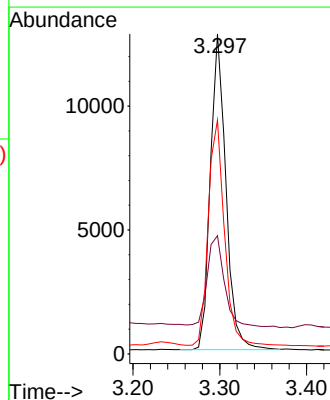
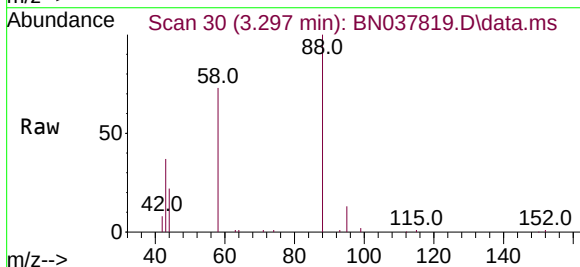


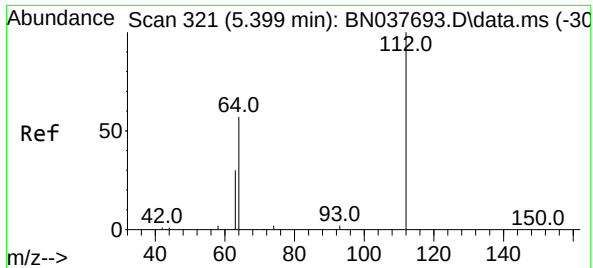
Tgt Ion:152 Resp: 4690
Ion Ratio Lower Upper
152 100
150 150.8 124.5 186.7
115 59.3 49.2 73.8



#2
1,4-Dioxane
Concen: 3.241 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion: 88 Resp: 15832
Ion Ratio Lower Upper
88 100
43 32.9 26.8 40.2
58 73.5 61.9 92.9

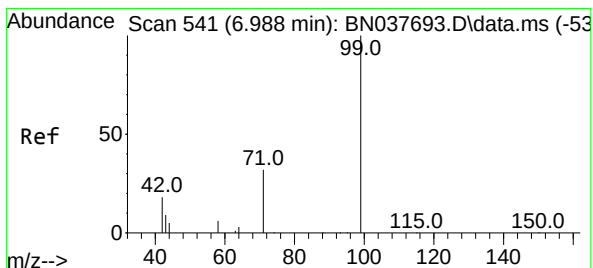
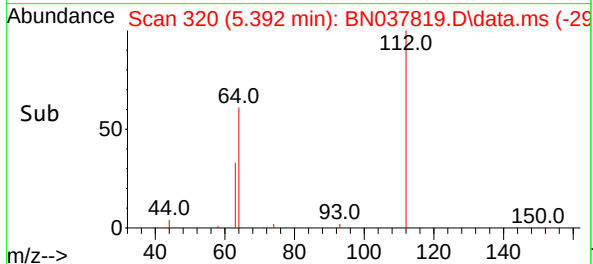
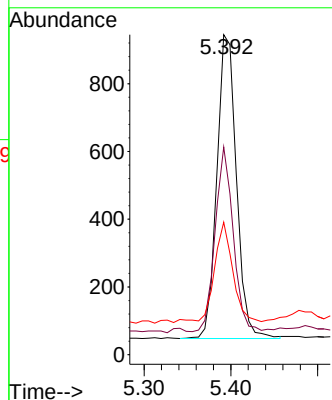
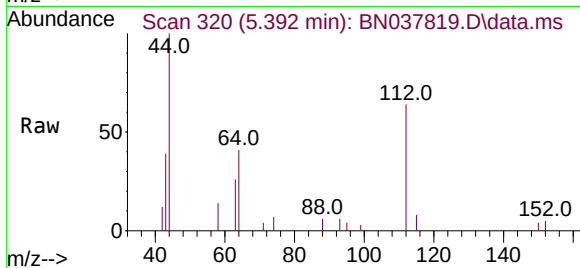




#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

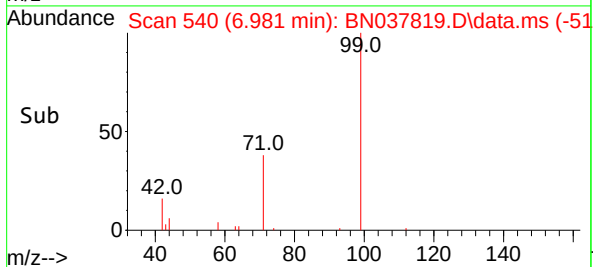
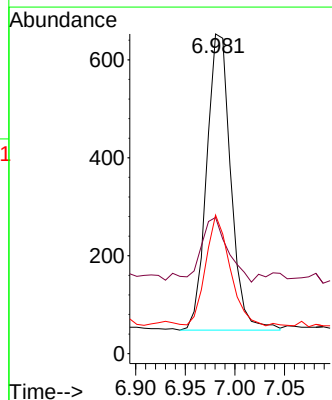
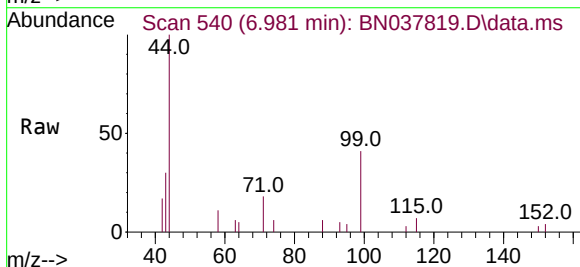
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

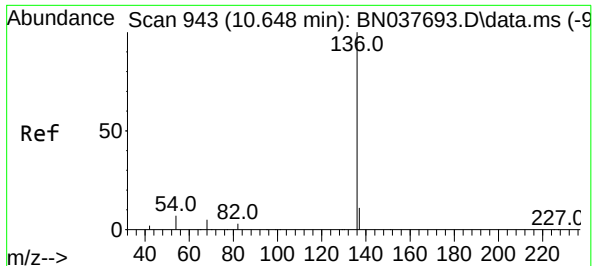
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.9	67.3
63	31.4	24.7	37.1



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.1	16.6	24.8#
71	37.9	26.7	40.1

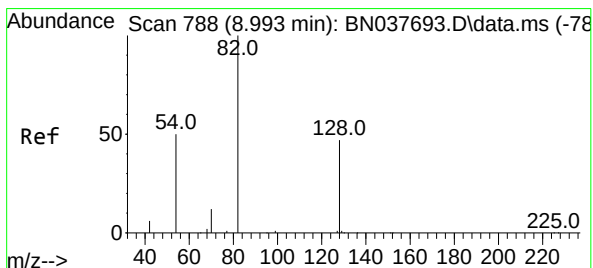
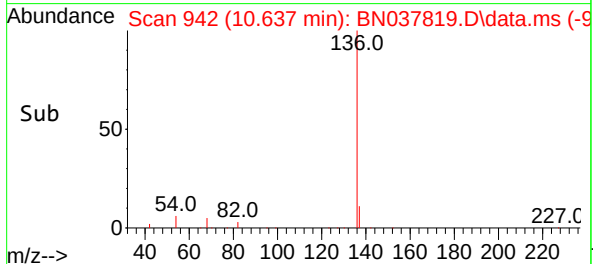
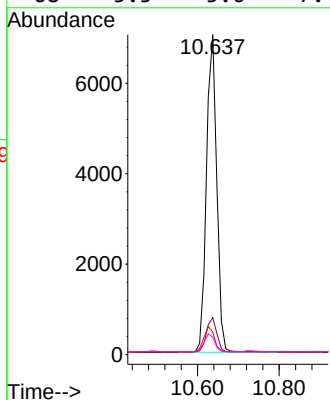
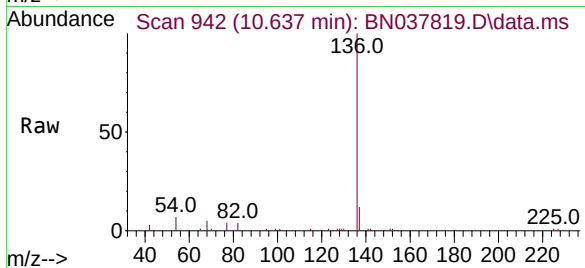




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

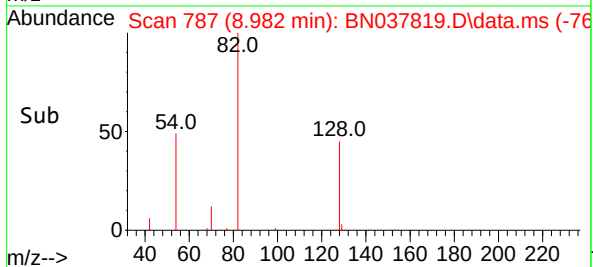
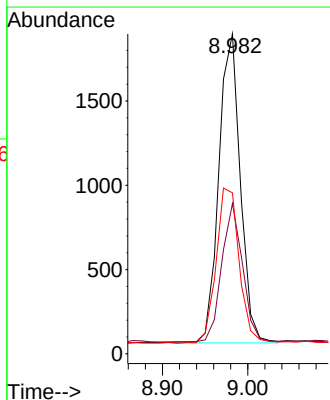
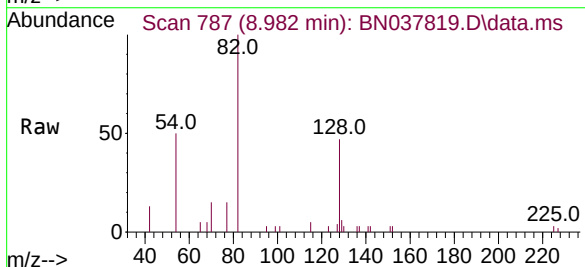
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

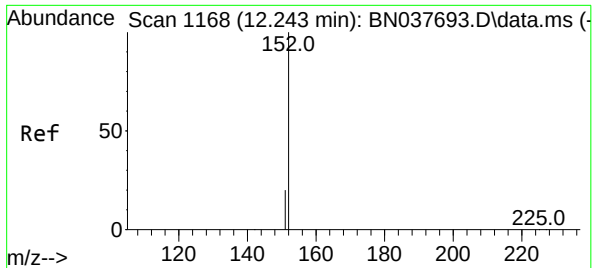
Tgt Ion:	136	Resp:	12247
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.1	6.3	9.5
68	5.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:	82	Resp:	3219
Ion	Ratio	Lower	Upper
82	100		
128	47.0	38.3	57.5
54	50.3	41.4	62.2

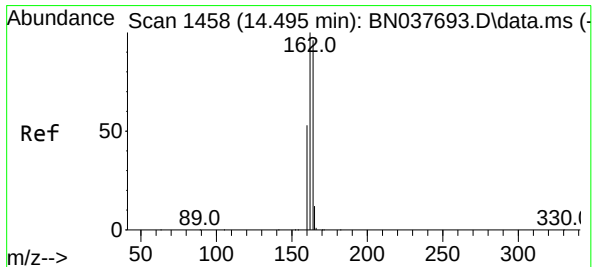
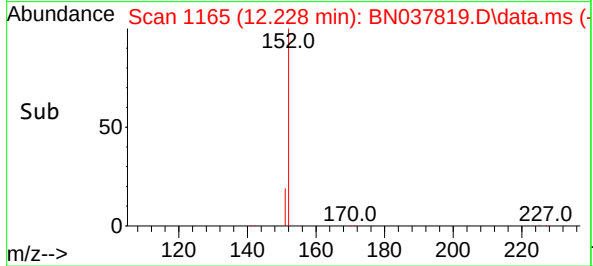
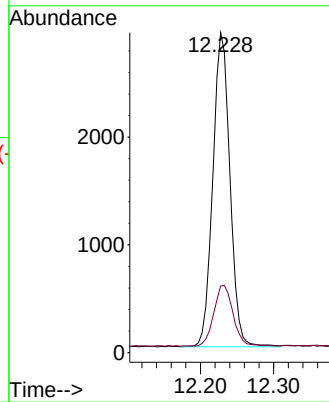
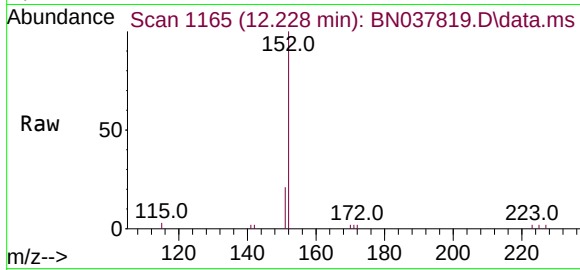




#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

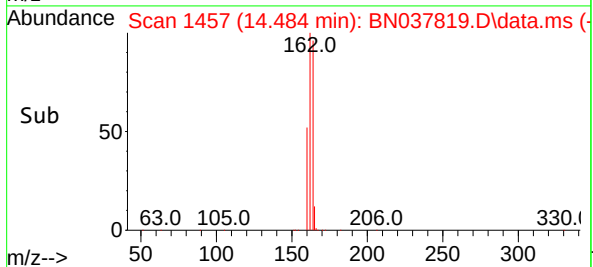
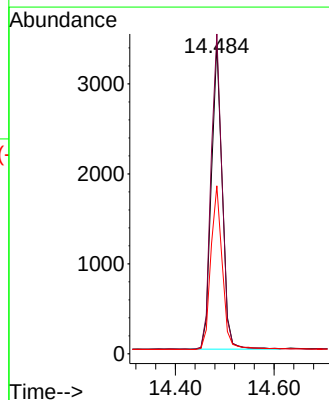
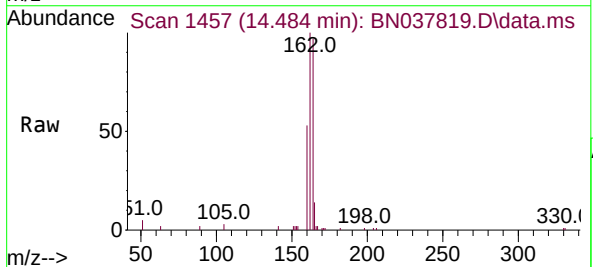
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

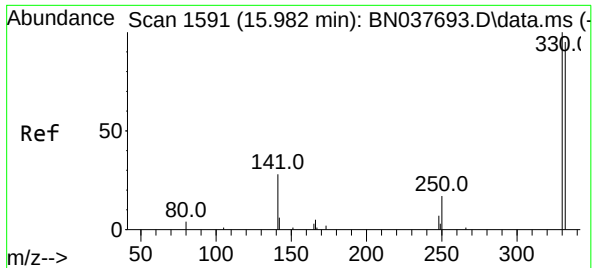
Tgt Ion:152 Resp: 4735
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:164 Resp: 5203
Ion Ratio Lower Upper
164 100
162 103.5 83.1 124.7
160 54.3 44.3 66.5

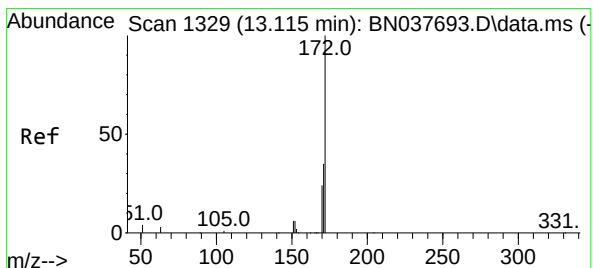
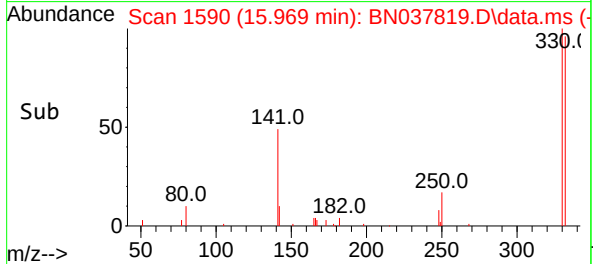
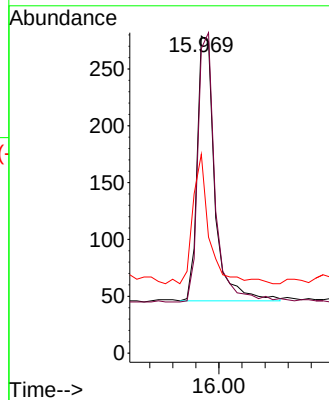
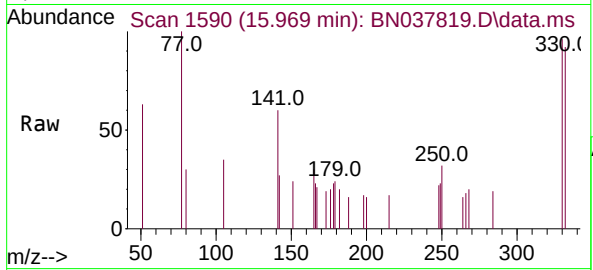




#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

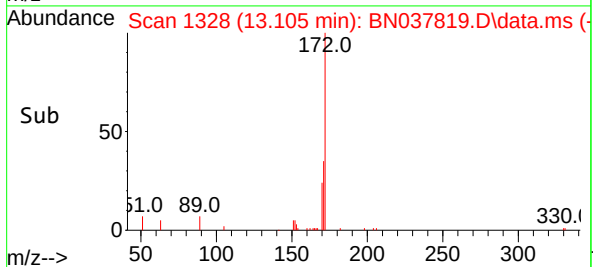
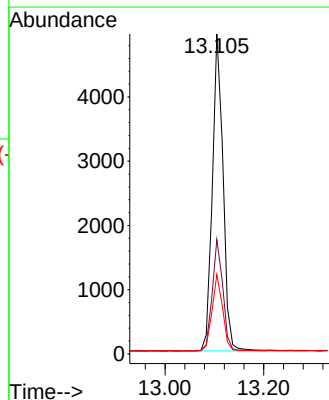
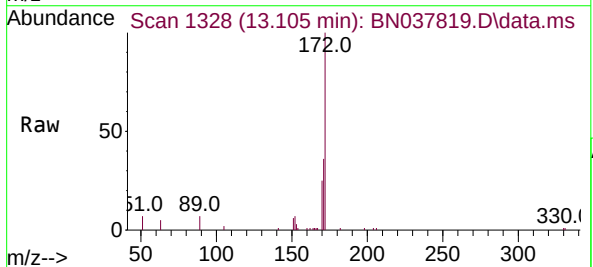
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

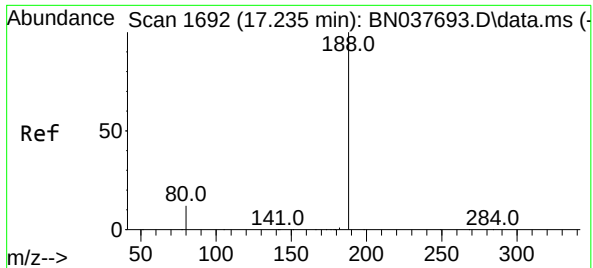
Tgt Ion	330	Resp	492
Ion Ratio	Lower	Upper	
330	100		
332	99.6	75.3	112.9
141	47.2	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion	172	Resp	7423
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	43.0
170	24.8	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037819.D

Acq: 19 Sep 2025 17:58

Instrument :

BNA_N

ClientSampleId :

RE120D2-20250912

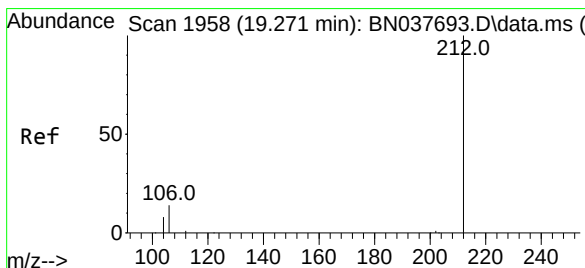
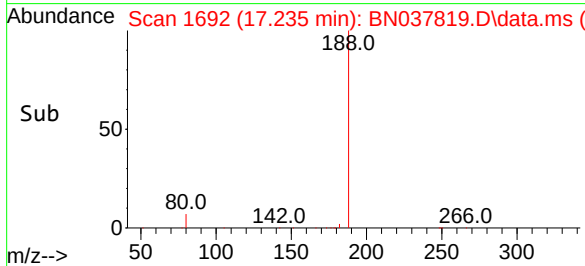
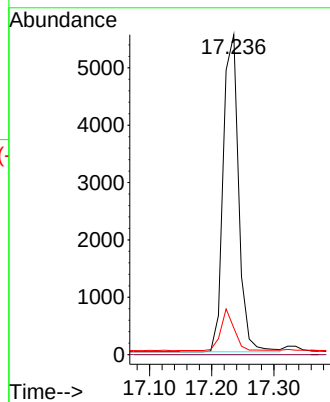
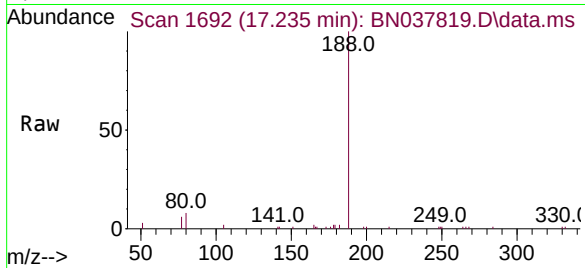
Tgt Ion:188 Resp: 9585

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.336 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037819.D

Acq: 19 Sep 2025 17:58

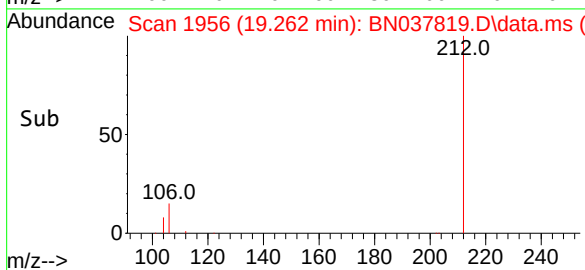
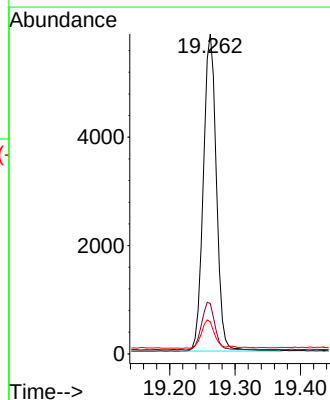
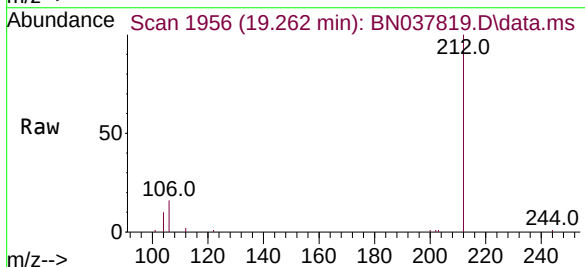
Tgt Ion:212 Resp: 8095

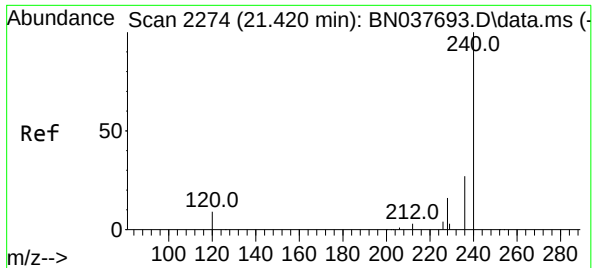
Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.8 6.9 10.3

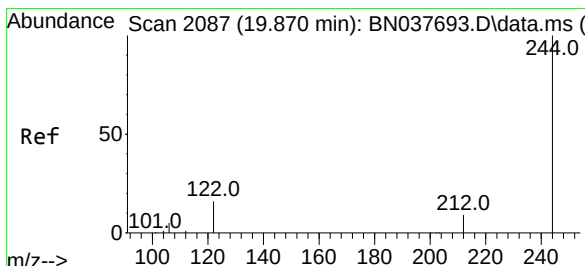
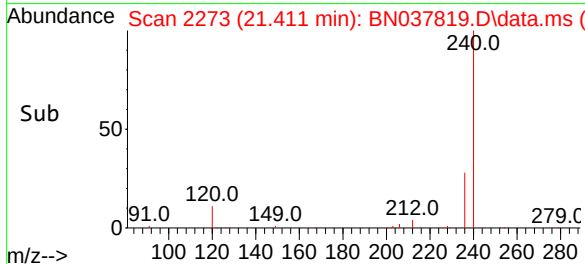
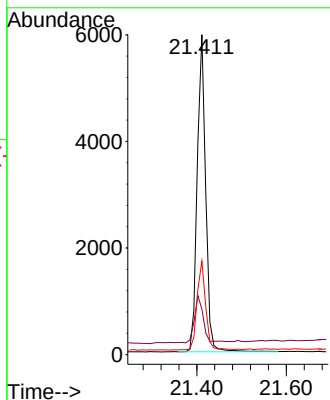
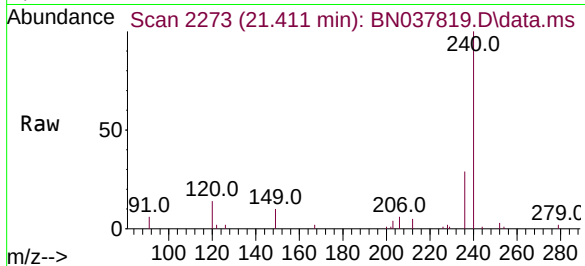




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

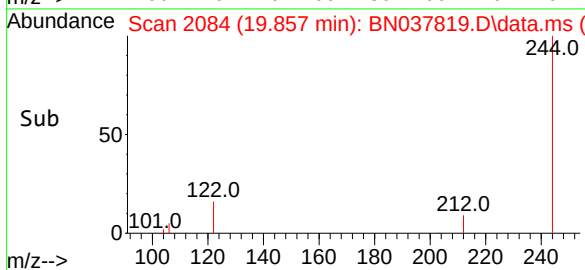
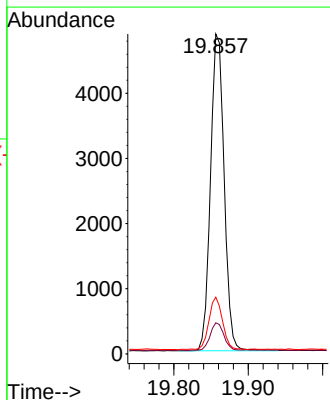
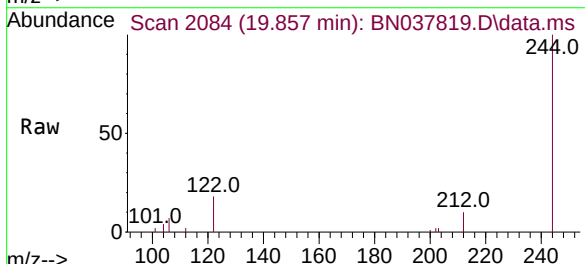
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

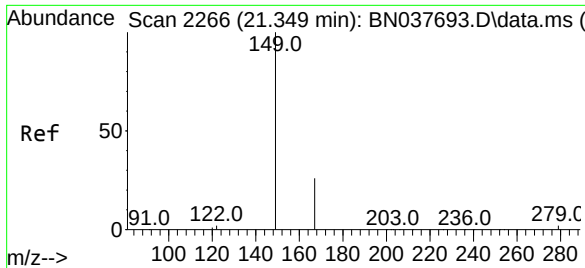
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.2	9.2	13.8#
236	29.2	22.6	33.8



#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.5	11.3
122	17.7	13.2	19.8

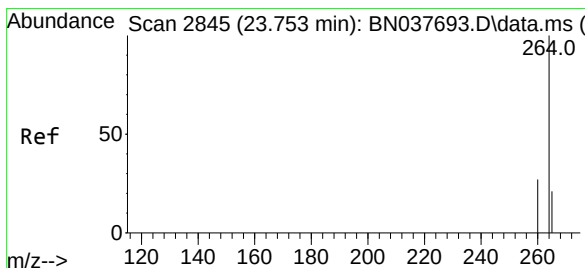
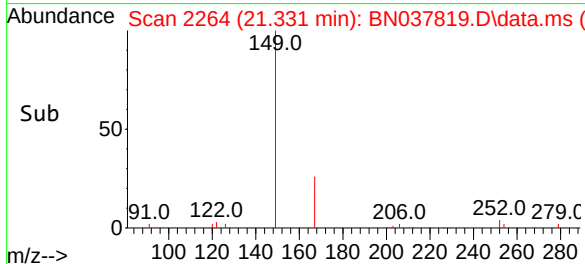
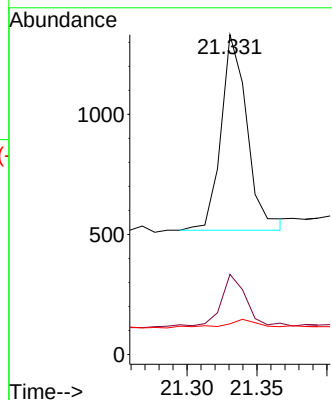
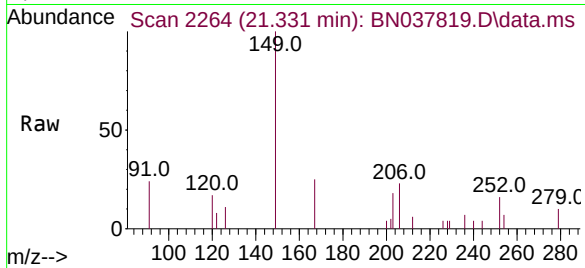




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.130 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

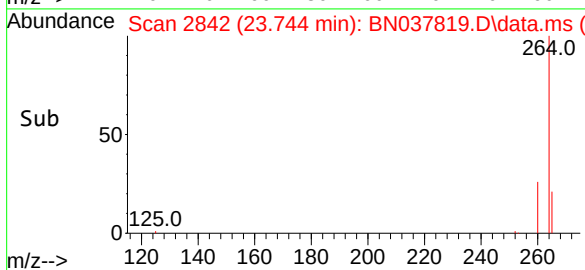
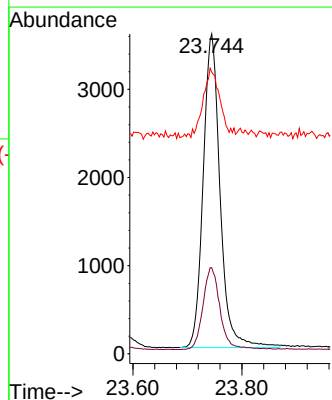
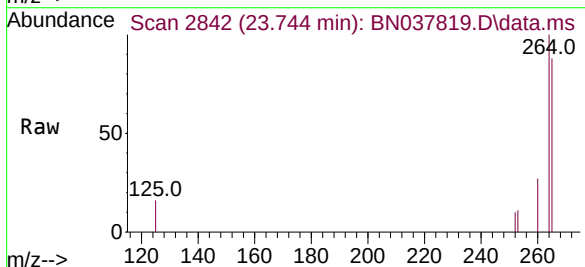
Instrument :
BNA_N
ClientSampleId :
RE120D2-20250912

Tgt Ion:149 Resp: 1054
Ion Ratio Lower Upper
149 100
167 25.3 20.8 31.2
279 5.8 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037819.D
Acq: 19 Sep 2025 17:58

Tgt Ion:264 Resp: 7673
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 88.1 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/12/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25	
Client Sample ID:	RE134D1-20250912		SDG No.:	Q3097	
Lab Sample ID:	Q3097-22		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037820.D	1	09/16/25 09:39	09/19/25 18:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4620	7.833				
1146-65-2	Naphthalene-d8	12200	10.637				
15067-26-2	Acenaphthene-d10	5320	14.484				
1517-22-2	Phenanthrene-d10	10200	17.235				
1719-03-5	Chrysene-d12	9410	21.411				
1520-96-3	Perylene-d12	8970	23.744				

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\BN091925\
Data File : BN037820.D
Acq On : 19 Sep 2025 18:34
Operator : RC/JU
Sample : Q3097-22
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Quant Time: Sep 19 23:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

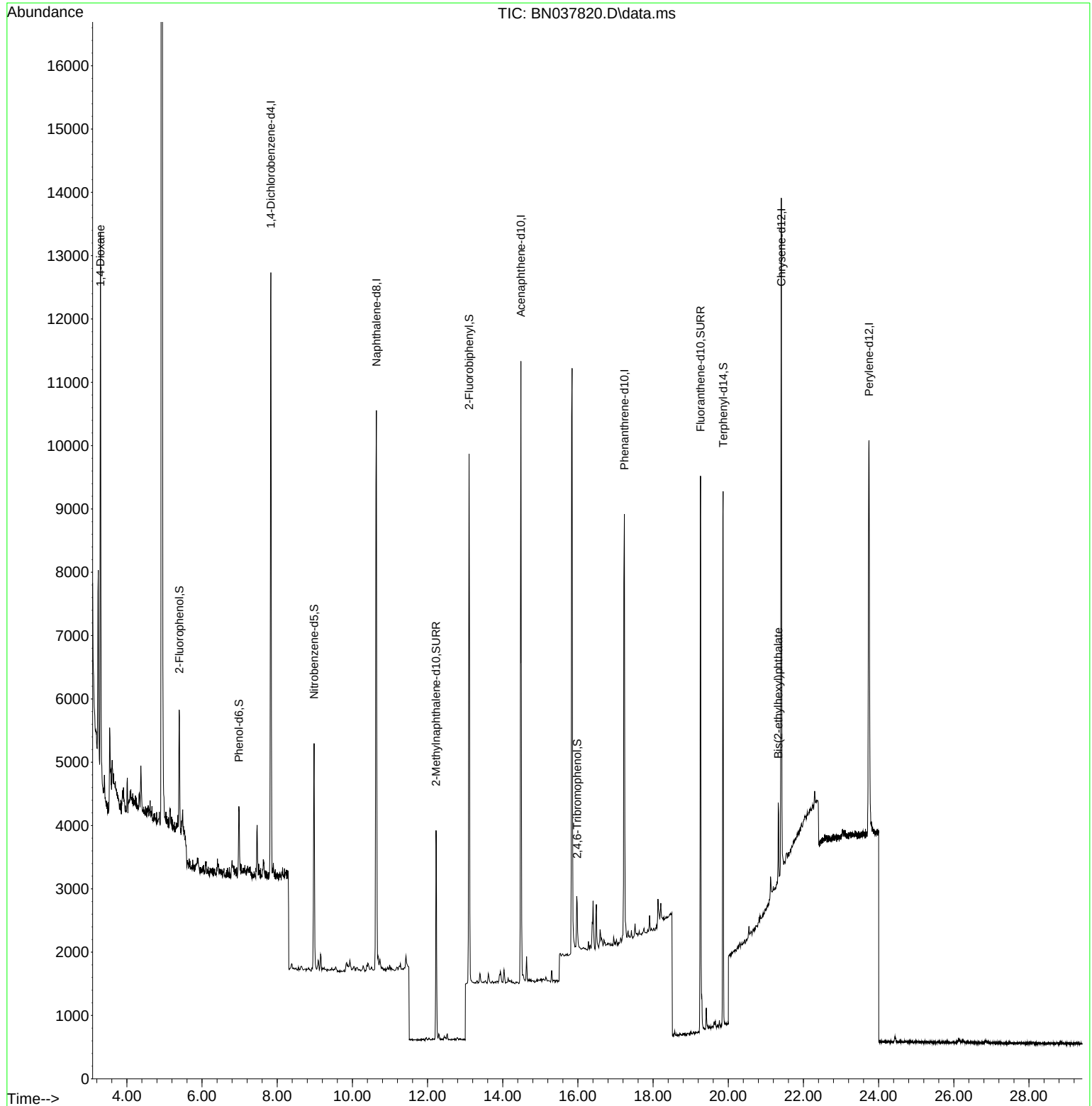
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4623	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12153	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5319	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	10150	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	9405	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	8969	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1553	0.146	ng	0.00
5) Phenol-d6	6.980	99	986	0.072	ng	0.00
8) Nitrobenzene-d5	8.982	82	2786	0.313	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	4358	0.271	ng	-0.02
14) 2,4,6-Tribromophenol	15.982	330	573	0.413	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	6855	0.308	ng	-0.01
27) Fluoranthene-d10	19.262	212	9689	0.380	ng	0.00
31) Terphenyl-d14	19.861	244	7908	0.414	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	5022	1.043	ng	94
34) Bis(2-ethylhexyl)phtha...	21.331	149	1373	0.141	ng	99

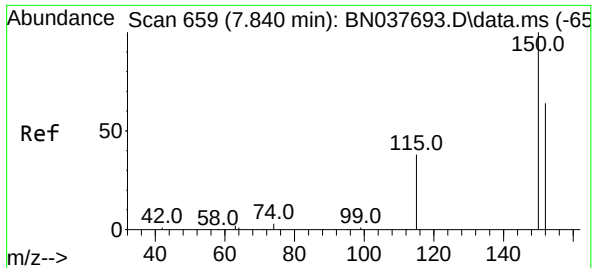
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037820.D
Acq On : 19 Sep 2025 18:34
Operator : RC/JU
Sample : Q3097-22
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

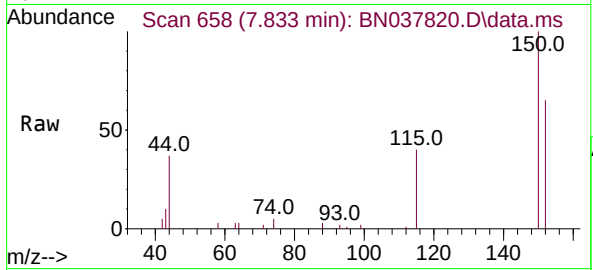
Quant Time: Sep 19 23:55:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



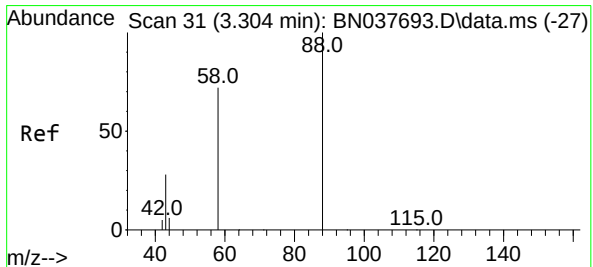
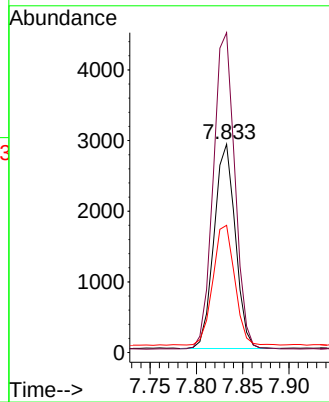
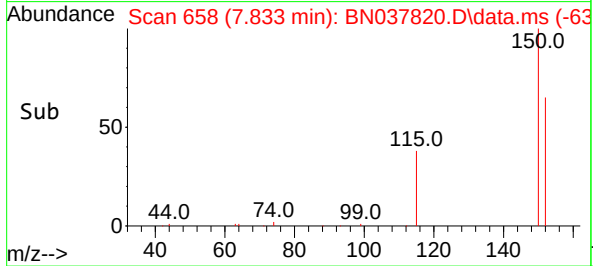


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

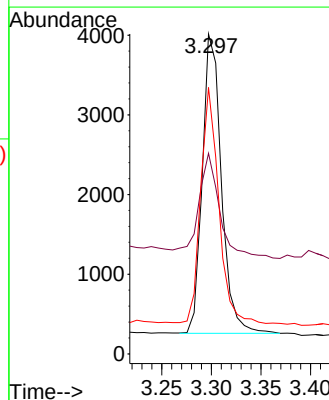
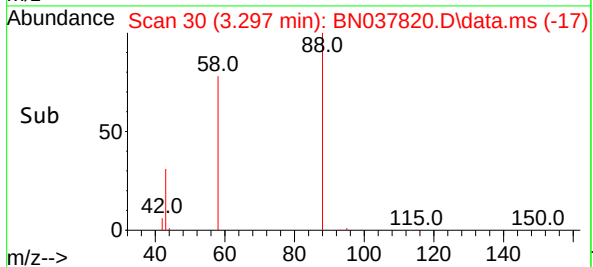
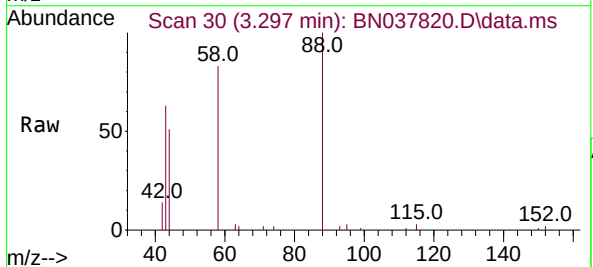


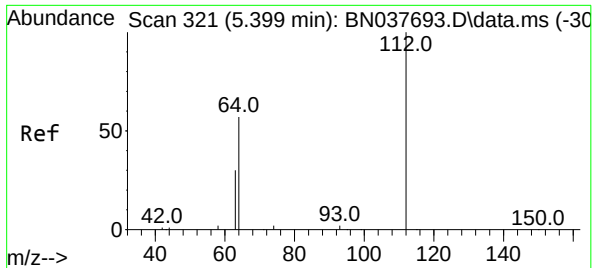
Tgt Ion:152 Resp: 4623
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 61.1 49.2 73.8



#2
1,4-Dioxane
Concen: 1.043 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion: 88 Resp: 5022
Ion Ratio Lower Upper
88 100
43 39.4 26.8 40.2
58 74.2 61.9 92.9

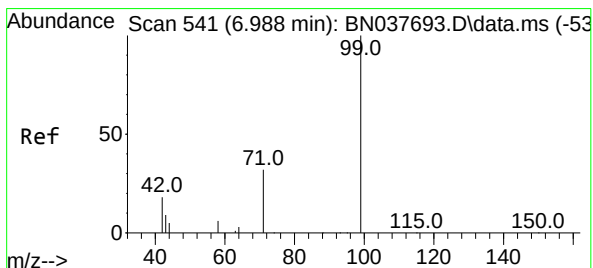
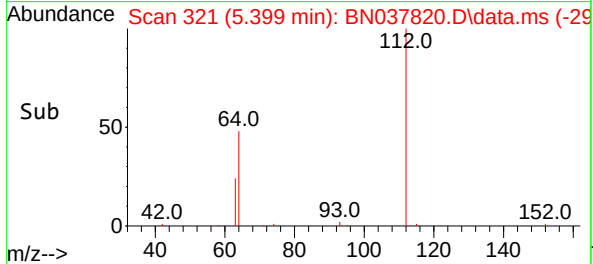
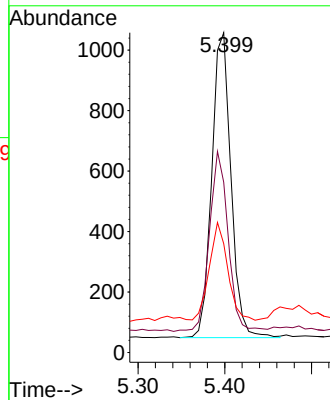
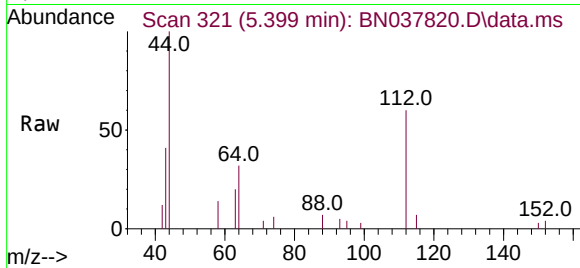




#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.399 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

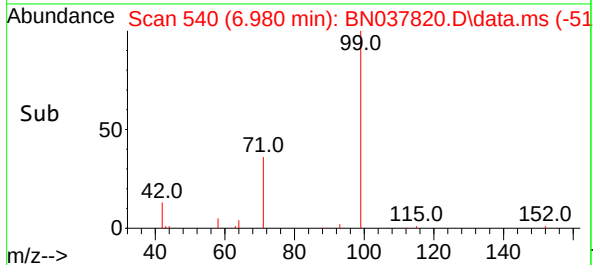
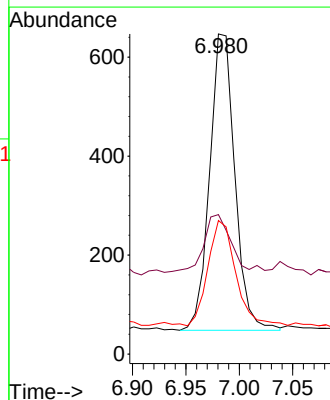
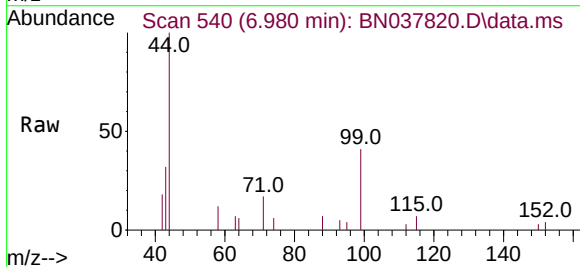
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

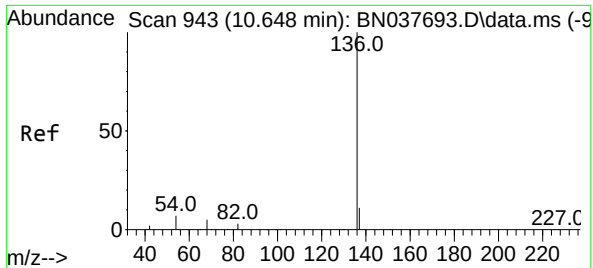
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	44.9	67.3
63	30.8	24.7	37.1



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.8	16.6	24.8
71	38.7	26.7	40.1

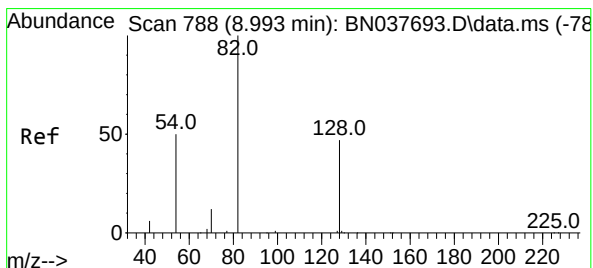
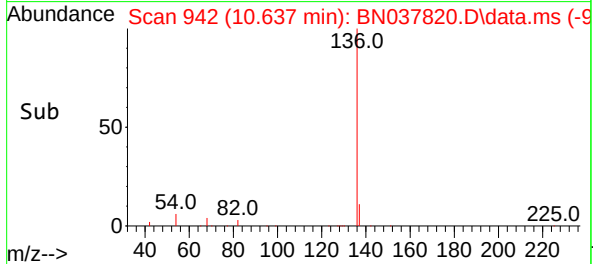
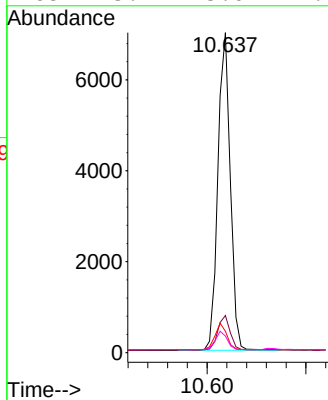
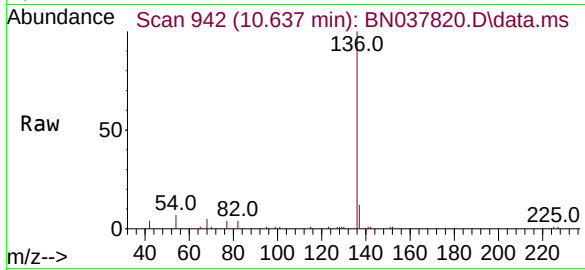




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

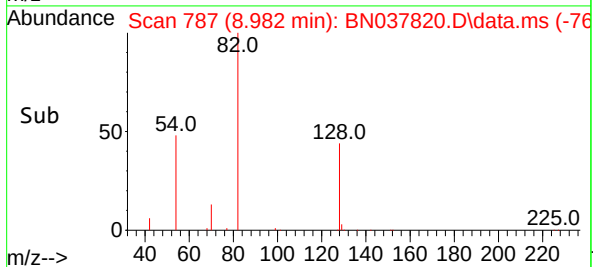
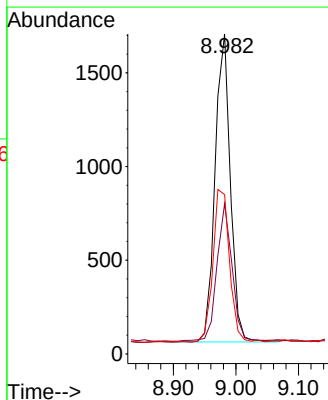
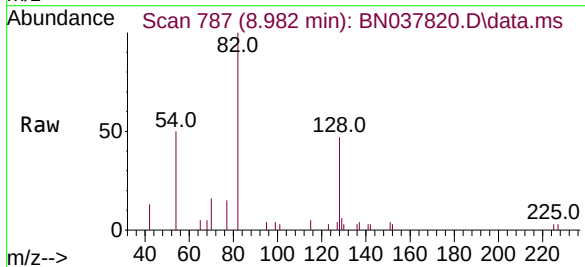
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

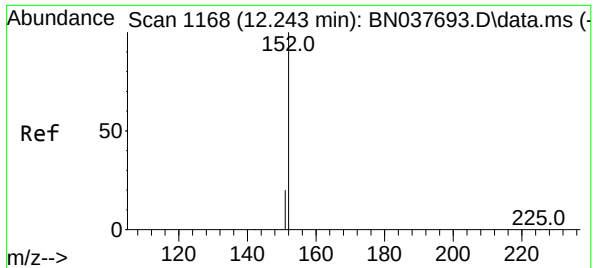
Tgt Ion:136	Resp:	12153
Ion Ratio	Lower	Upper
136	100	
137	11.6	9.1 13.7
54	6.7	6.3 9.5
68	5.2	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion: 82	Resp:	2786
Ion Ratio	Lower	Upper
82	100	
128	47.0	38.3 57.5
54	49.8	41.4 62.2

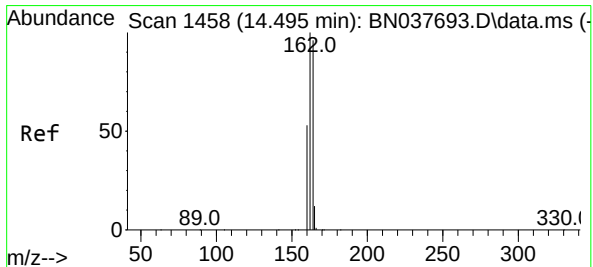
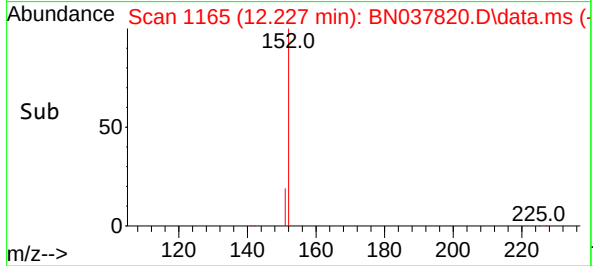
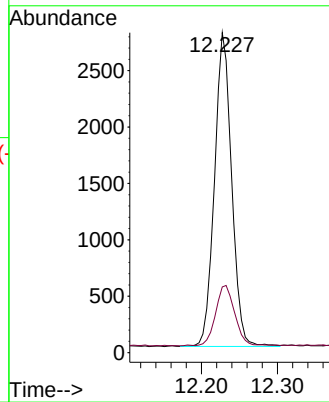
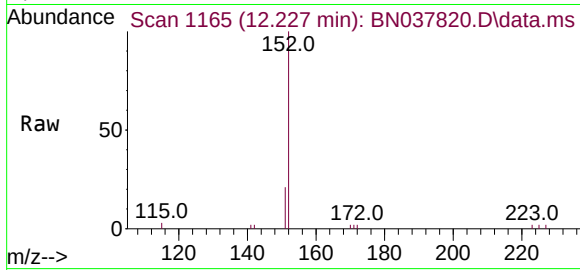




#11
2-Methylnaphthalene-d10
Concen: 0.271 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

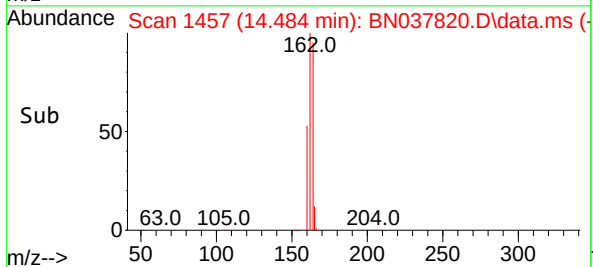
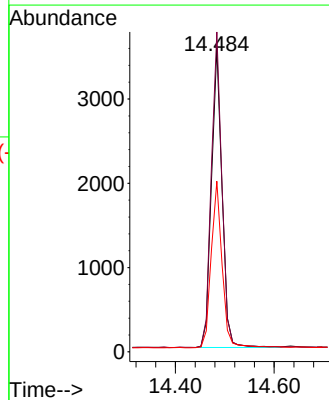
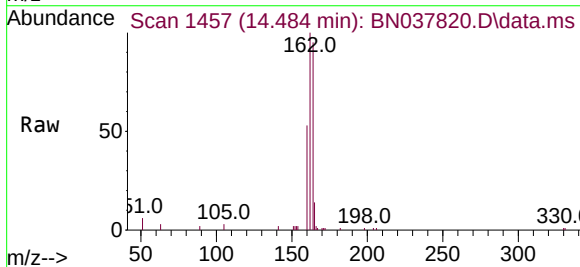
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

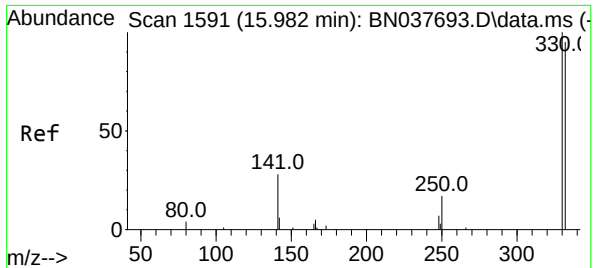
Tgt Ion:152 Resp: 4358
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:164 Resp: 5319
Ion Ratio Lower Upper
164 100
162 105.3 83.1 124.7
160 56.1 44.3 66.5

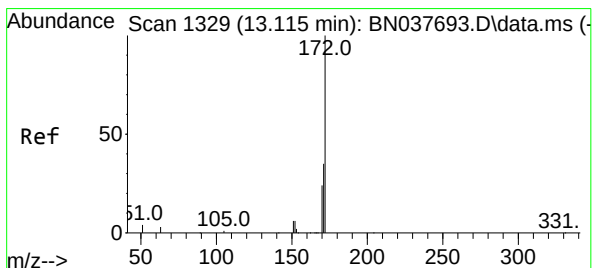
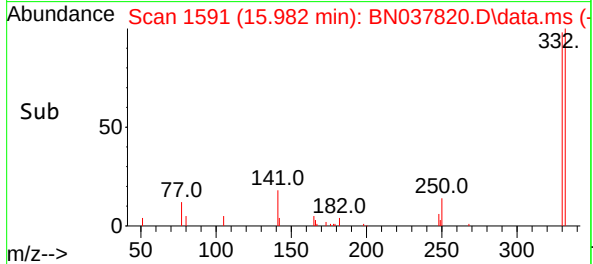
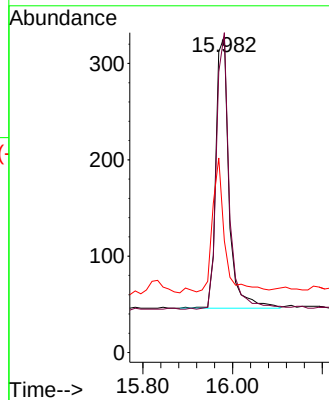
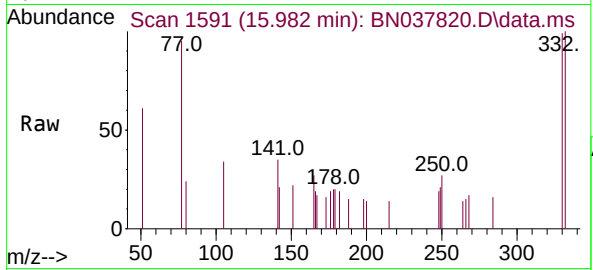




#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

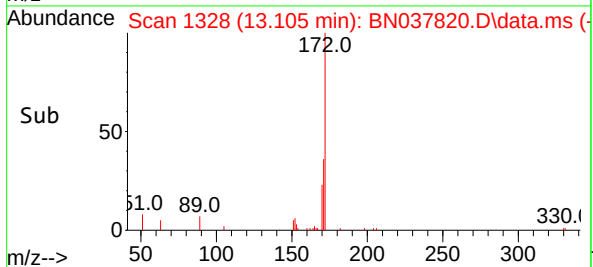
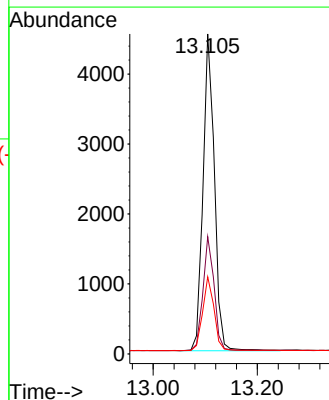
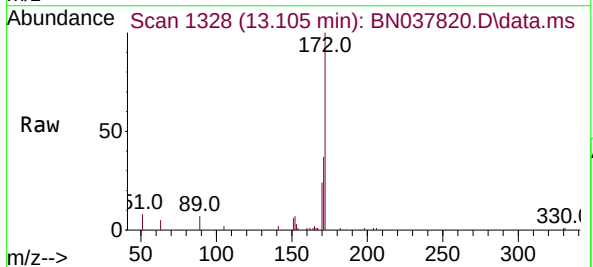
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

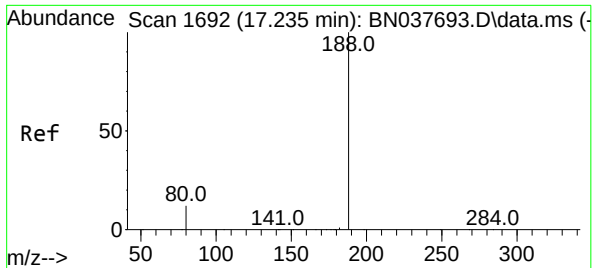
Tgt Ion	330	332	141
Resp:	573		
Ratio	100	100.0	45.2
Lower		75.3	35.0
Upper		112.9	52.4



#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion	172	171	170
Resp:	6855		
Ratio	100	36.6	24.1
Lower		28.6	19.8
Upper		43.0	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037820.D

Acq: 19 Sep 2025 18:34

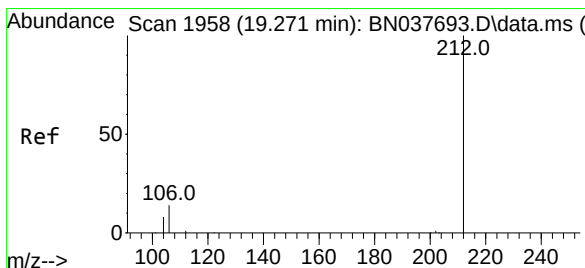
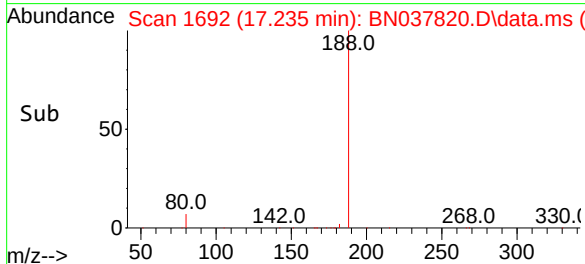
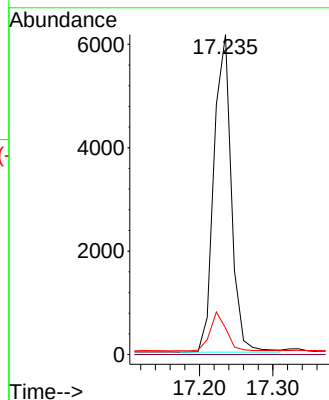
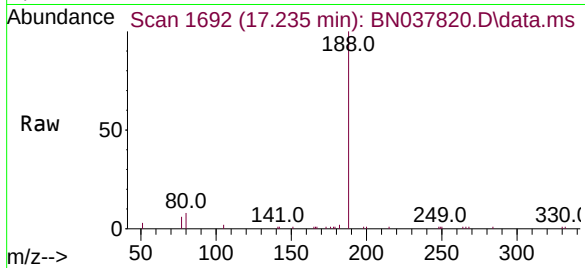
Instrument :

BNA_N

ClientSampleId :

RE134D1-20250912

Tgt Ion:	188	Resp:	10150
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#



#27

Fluoranthene-d10

Concen: 0.380 ng

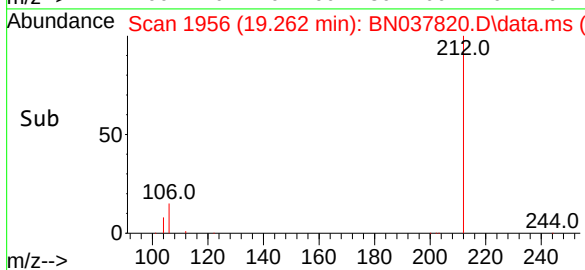
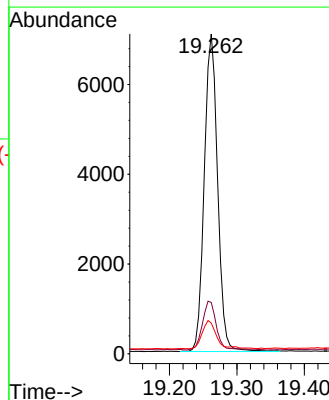
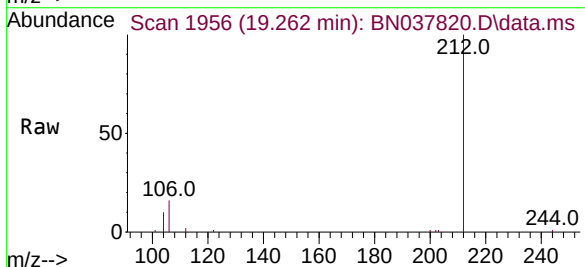
RT: 19.262 min Scan# 1956

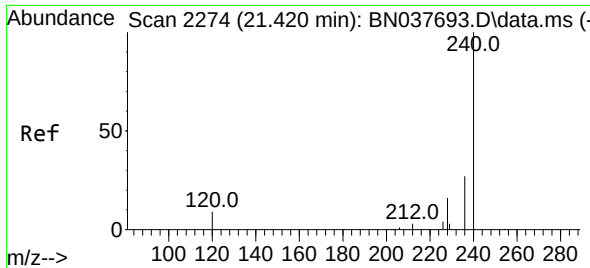
Delta R.T. -0.009 min

Lab File: BN037820.D

Acq: 19 Sep 2025 18:34

Tgt Ion:	212	Resp:	9689
Ion Ratio	Lower	Upper	
212	100		
106	16.1	12.2	18.2
104	9.5	6.9	10.3

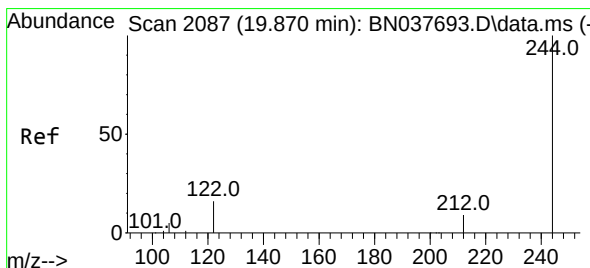
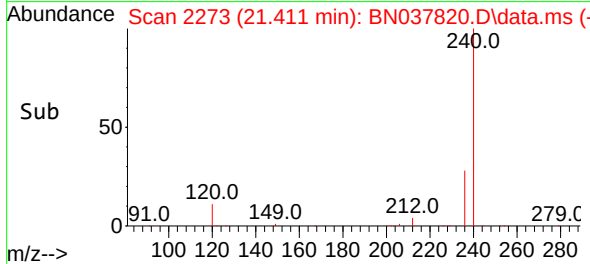
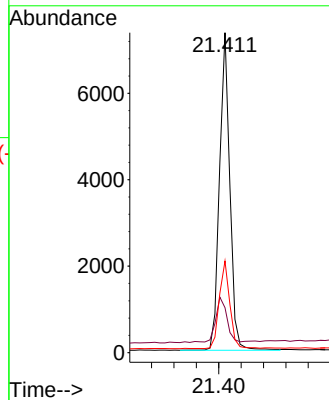
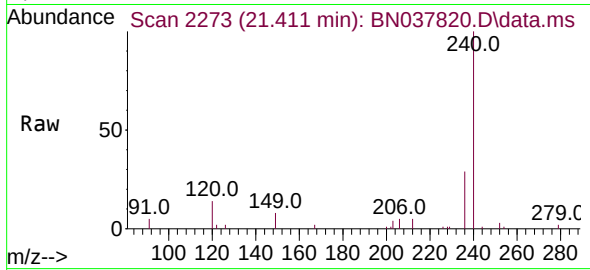




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

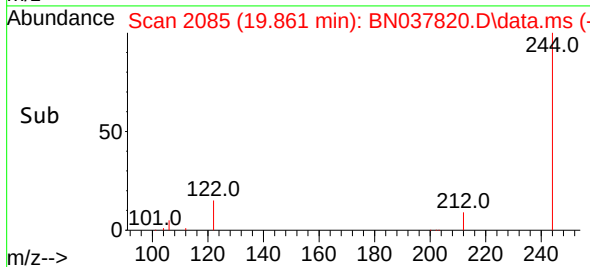
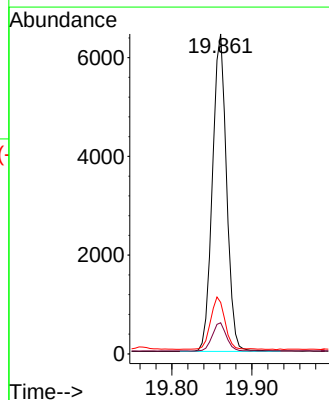
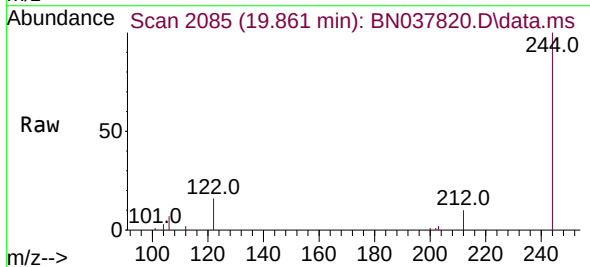
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

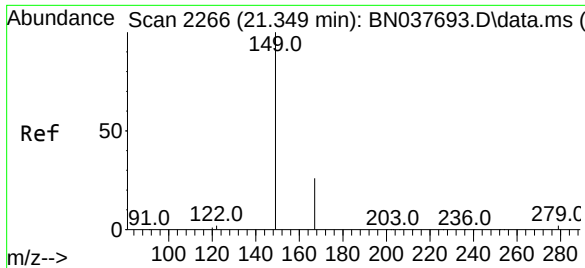
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.0	9.2	13.8#
236	28.7	22.6	33.8



#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	16.1	13.2	19.8

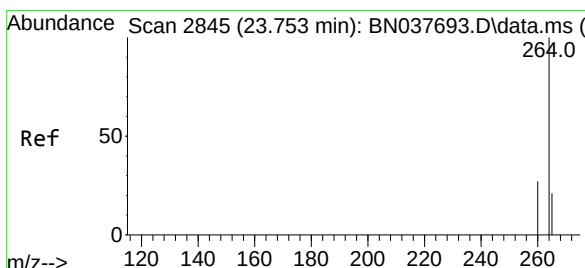
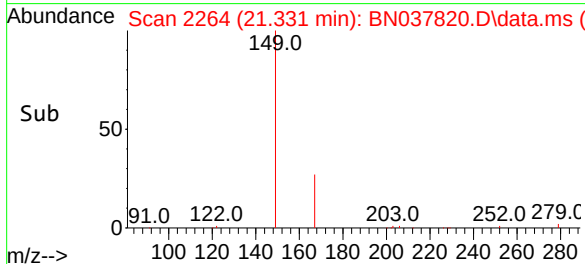
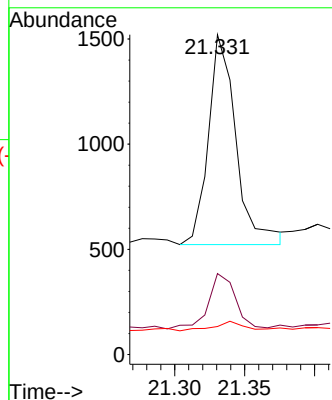
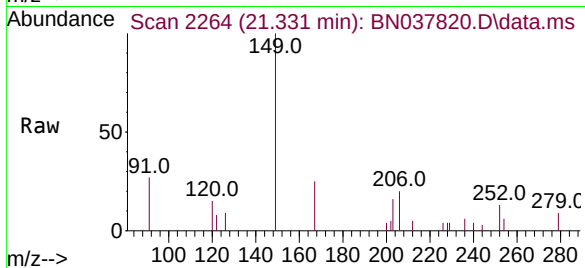




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.141 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

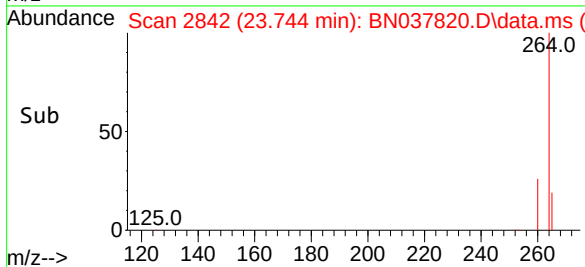
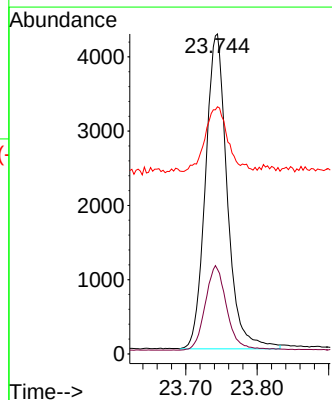
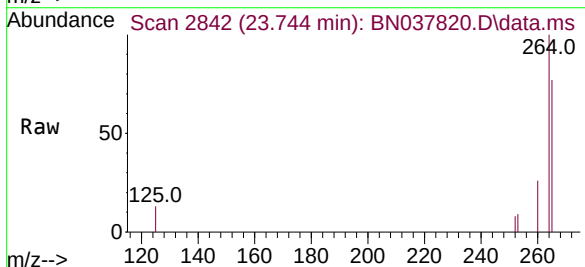
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250912

Tgt Ion:149 Resp: 1373
Ion Ratio Lower Upper
149 100
167 25.7 20.8 31.2
279 4.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037820.D
Acq: 19 Sep 2025 18:34

Tgt Ion:264 Resp: 8969
Ion Ratio Lower Upper
264 100
260 26.5 21.8 32.8
265 77.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-23	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
BN037821.D	1	09/16/25 09:39	09/19/25 19:11	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4710	7.833				
1146-65-2	Naphthalene-d8	14500	10.637				
15067-26-2	Acenaphthene-d10	6240	14.484				
1517-22-2	Phenanthrene-d10	11900	17.236				
1719-03-5	Chrysene-d12	10000	21.411				
1520-96-3	Perylene-d12	9360	23.739				

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\BN091925\
Data File : BN037821.D
Acq On : 19 Sep 2025 19:11
Operator : RC/JU
Sample : Q3097-23
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Quant Time: Sep 19 23:55:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

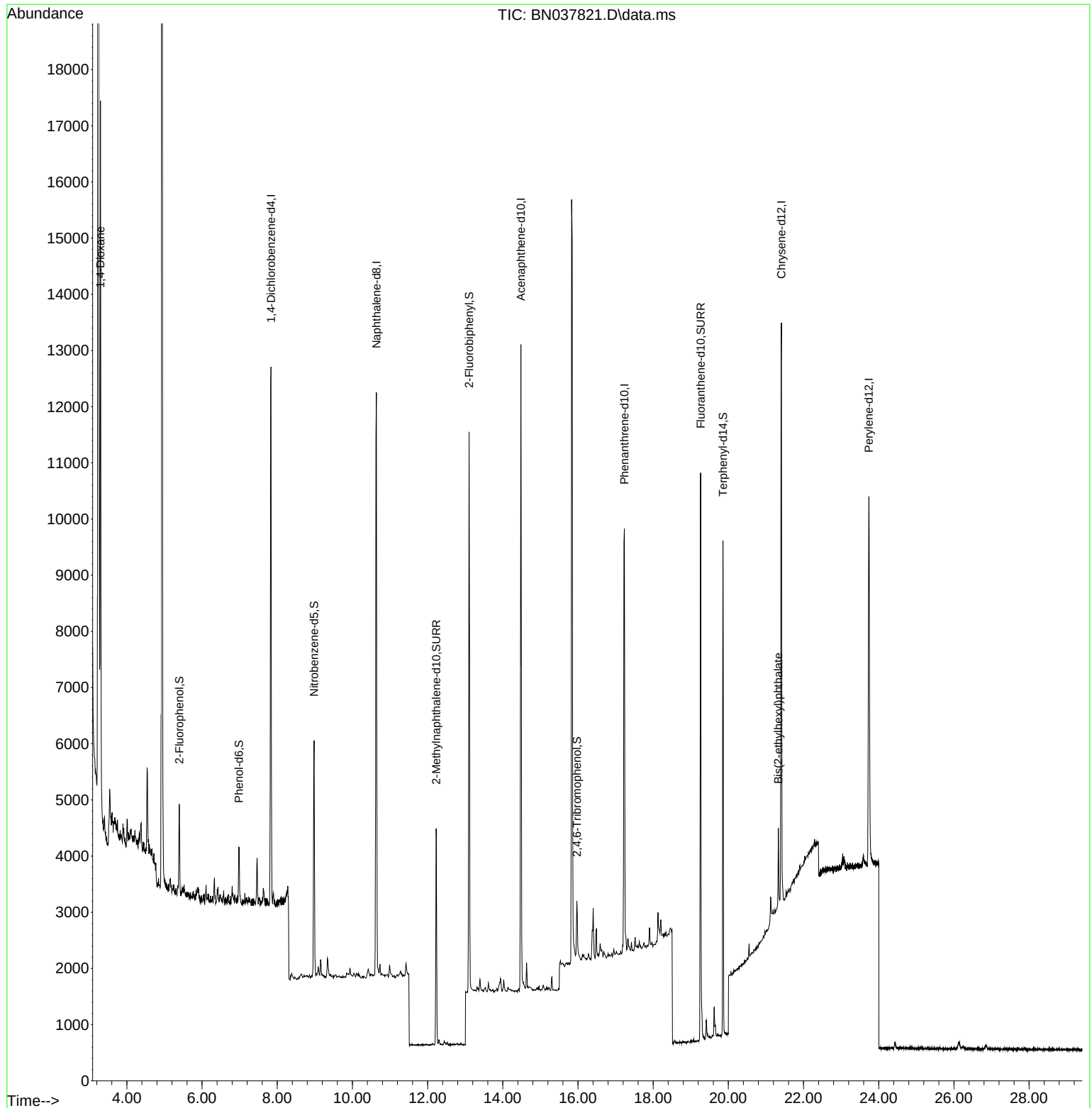
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4710	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	14487	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	6237	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11940	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10042	0.400	ng	0.00
35) Perylene-d12	23.739	264	9356	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1273	0.118	ng	0.00
5) Phenol-d6	6.981	99	914	0.065	ng	0.00
8) Nitrobenzene-d5	8.982	82	3334	0.315	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5135	0.268	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	651	0.400	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8107	0.311	ng	-0.01
27) Fluoranthene-d10	19.262	212	10926	0.364	ng	0.00
31) Terphenyl-d14	19.857	244	8235	0.404	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	7222	1.472	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	1333	0.128	ng	# 99

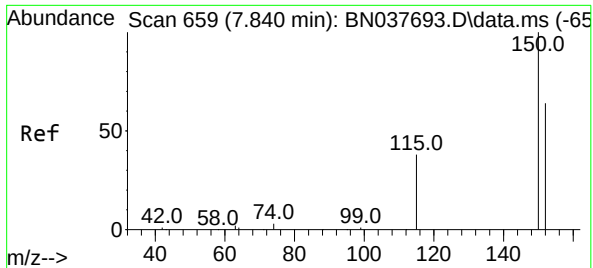
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037821.D
Acq On : 19 Sep 2025 19:11
Operator : RC/JU
Sample : Q3097-23
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

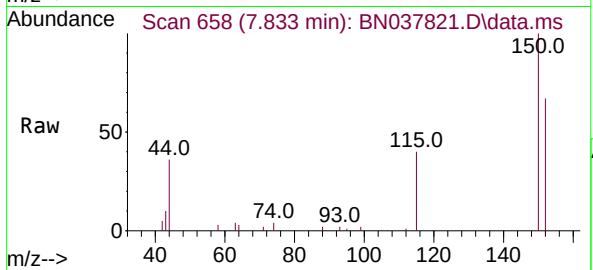
Quant Time: Sep 19 23:55:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



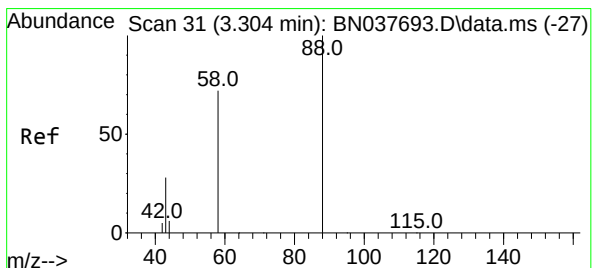
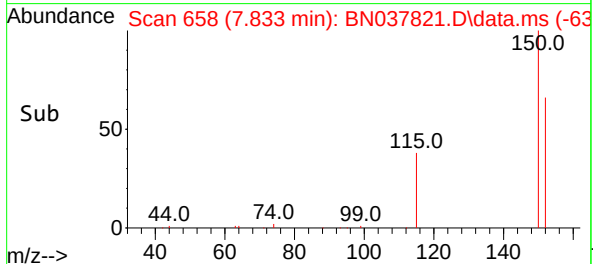
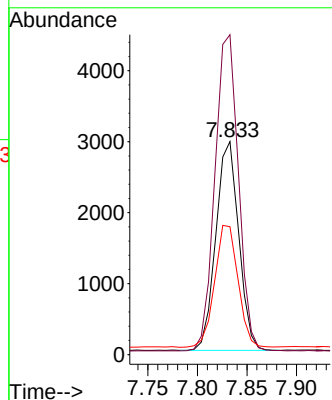


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

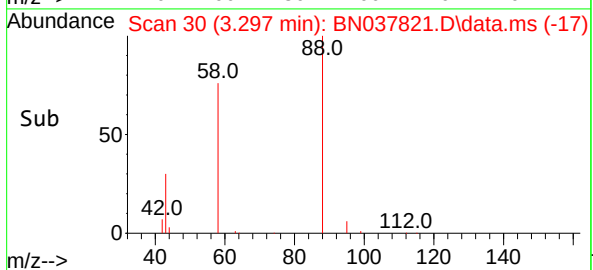
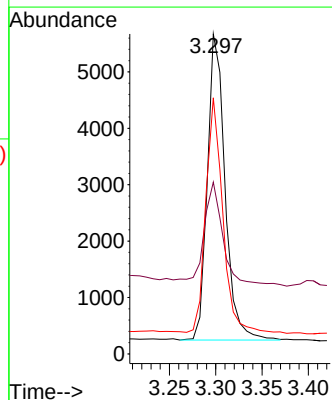
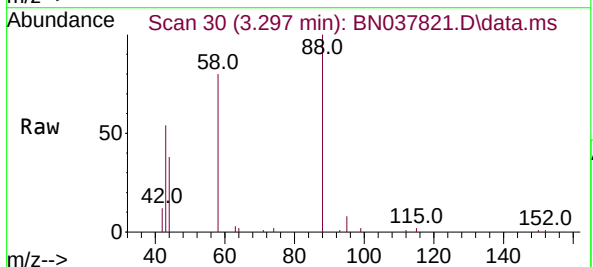


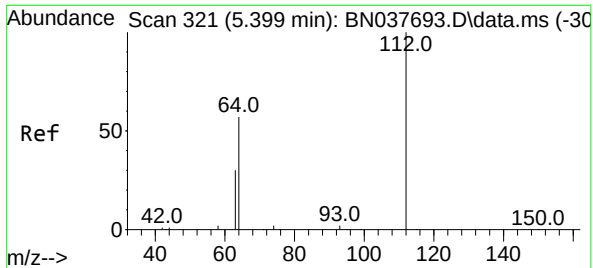
Tgt Ion: 152 Resp: 4710
Ion Ratio Lower Upper
152 100
150 150.2 124.5 186.7
115 60.1 49.2 73.8



#2
1,4-Dioxane
Concen: 1.472 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion: 88 Resp: 7222
Ion Ratio Lower Upper
88 100
43 34.0 26.8 40.2
58 72.7 61.9 92.9

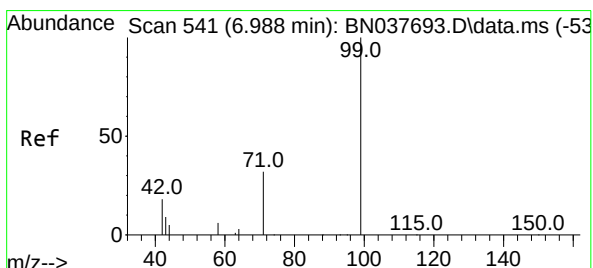
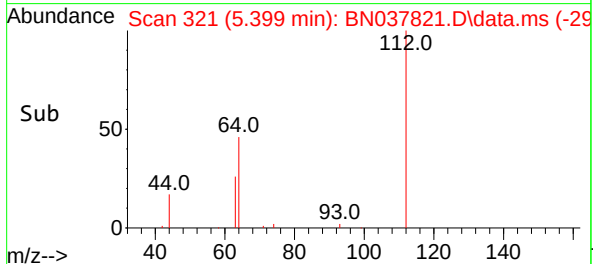
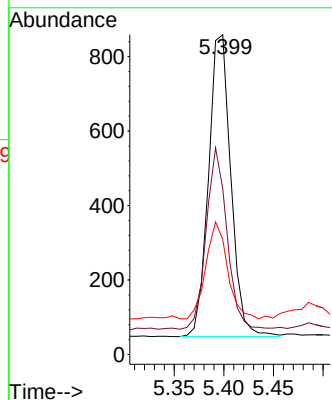
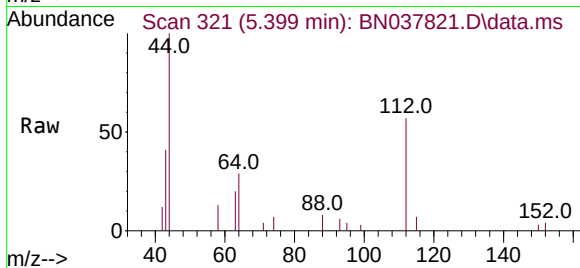




#4
2-Fluorophenol
Concen: 0.118 ng
RT: 5.399 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

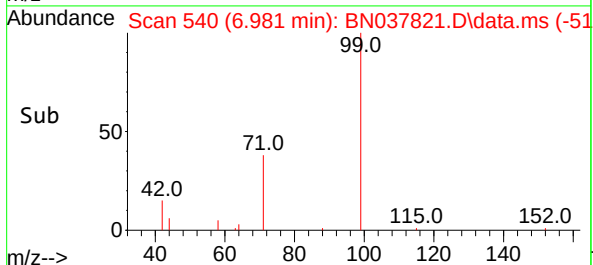
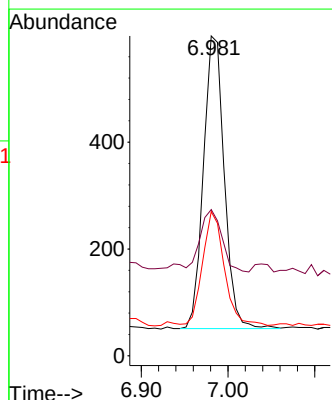
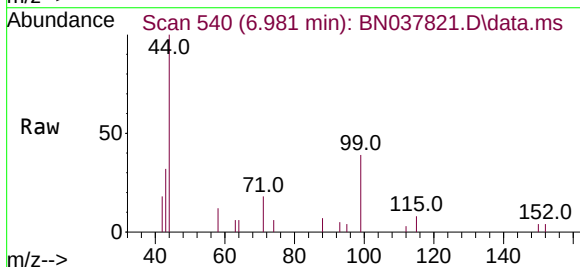
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

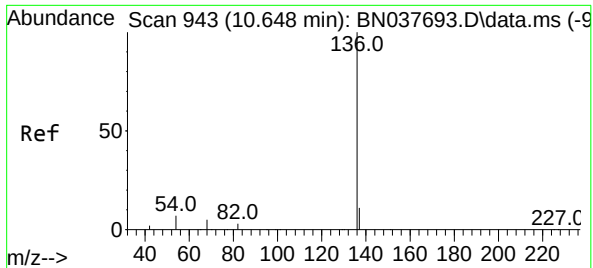
Tgt Ion:	112	Resp:	1273
Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	31.0	24.7	37.1



#5
Phenol-d6
Concen: 0.065 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:	99	Resp:	914
Ion	Ratio	Lower	Upper
99	100		
42	24.4	16.6	24.8
71	40.5	26.7	40.1

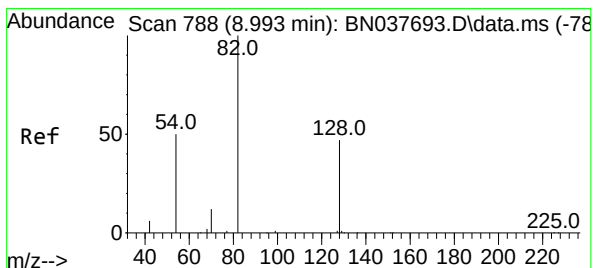
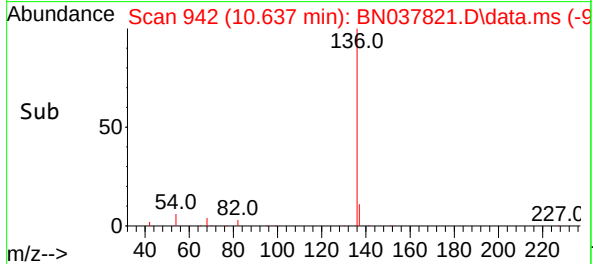
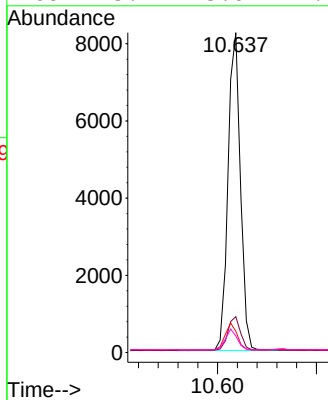
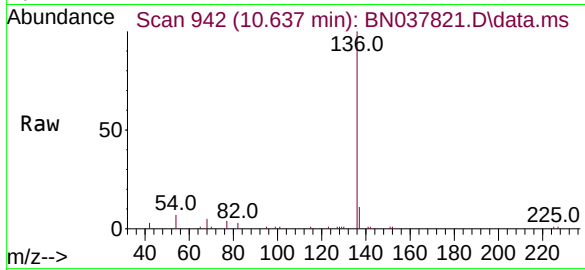




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

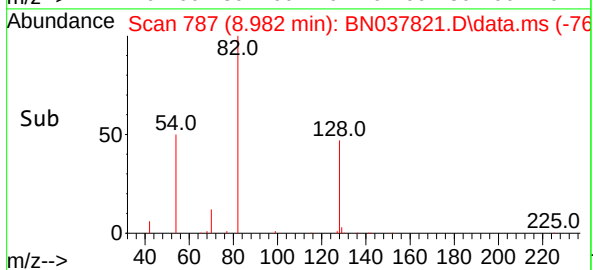
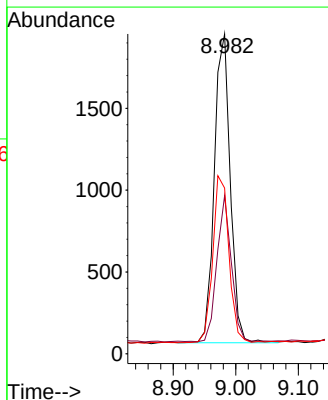
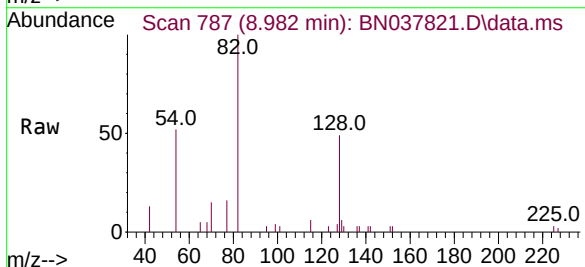
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

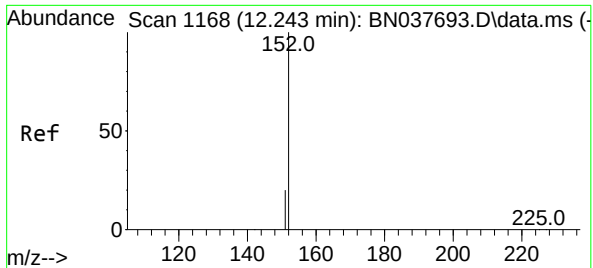
Tgt Ion:	136	Resp:	14487
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.7	6.3	9.5
68	5.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.315 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:	82	Resp:	3334
Ion	Ratio	Lower	Upper
82	100		
128	49.4	38.3	57.5
54	51.8	41.4	62.2

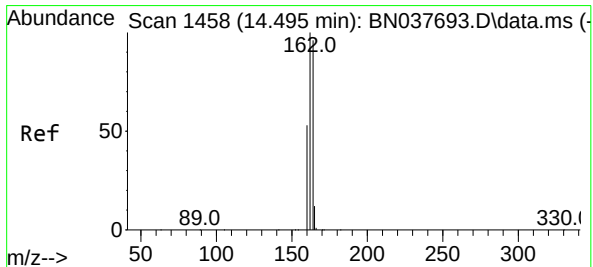
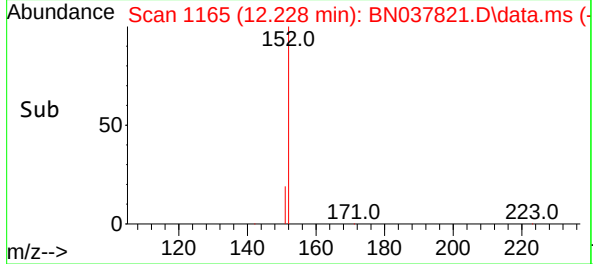
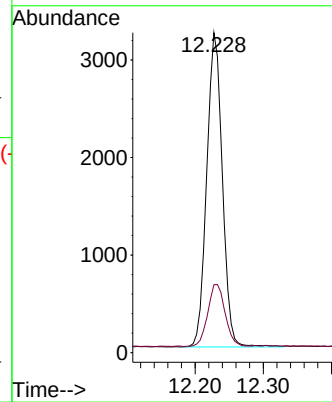
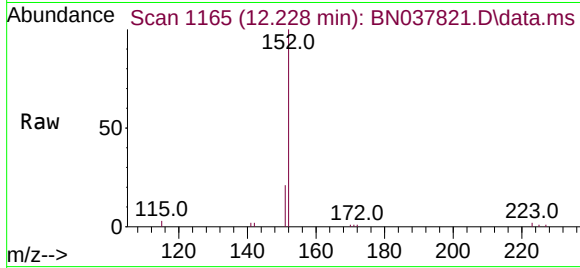




#11
2-Methylnaphthalene-d10
Concen: 0.268 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

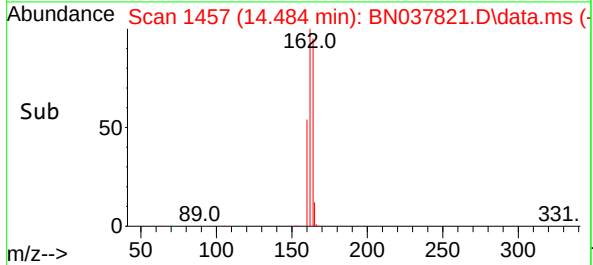
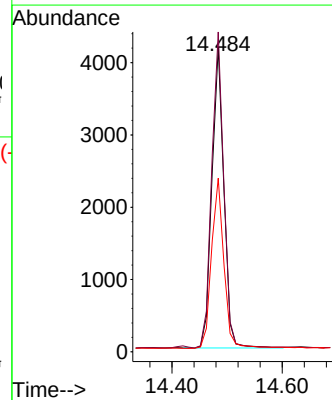
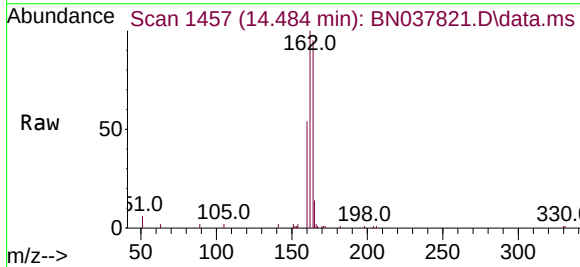
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

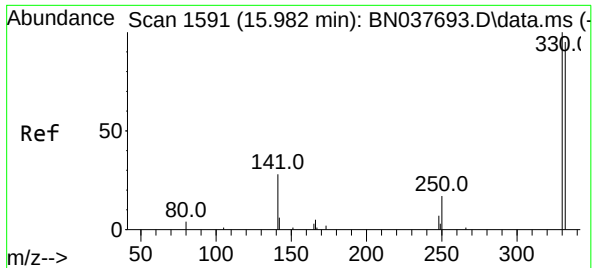
Tgt Ion:152 Resp: 5135
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:164 Resp: 6237
Ion Ratio Lower Upper
164 100
162 105.0 83.1 124.7
160 57.0 44.3 66.5

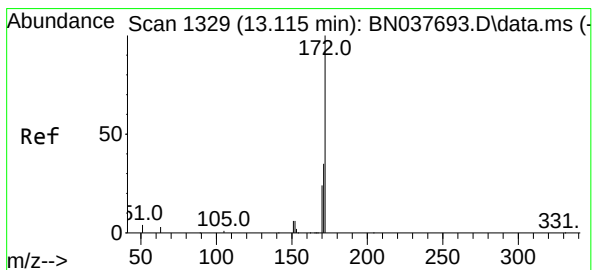
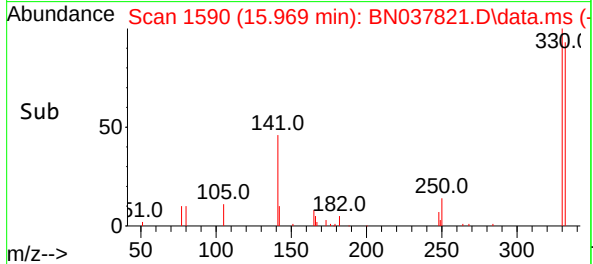
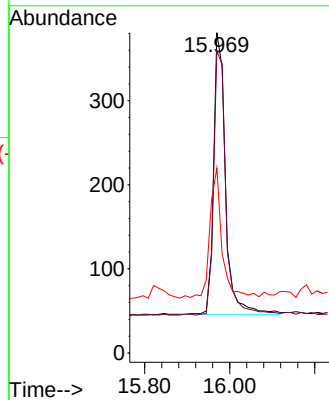
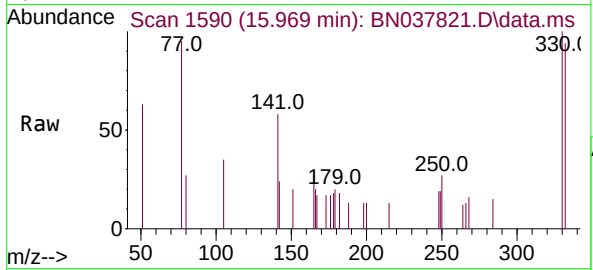




#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

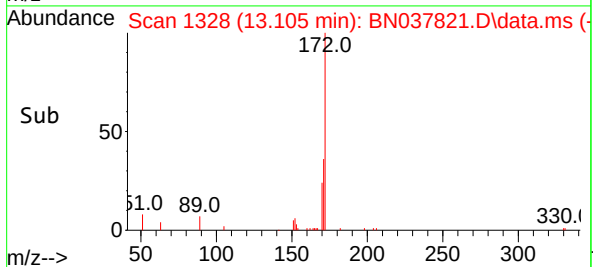
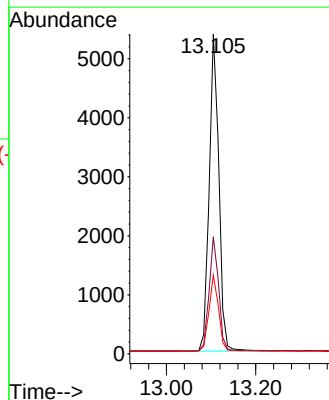
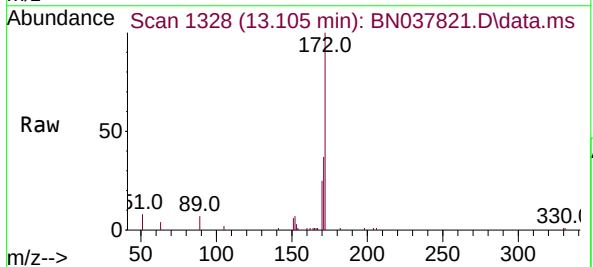
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

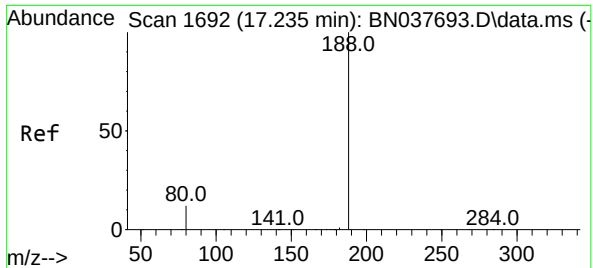
Tgt Ion	330	Resp	651
Ion Ratio	Lower	Upper	
330	100		
332	96.6	75.3	112.9
141	47.6	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion	172	Resp	8107
Ion Ratio	Lower	Upper	
172	100		
171	36.6	28.6	43.0
170	24.6	19.8	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 10

Delta R.T. 0.000 min

Lab File: BN037821.D

Acq: 19 Sep 2025 19:11

Instrument :

BNA_N

ClientSampleId :

RE134D4-20250912

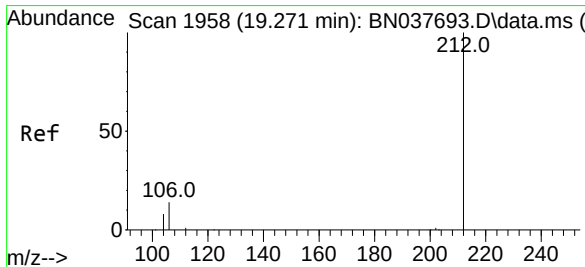
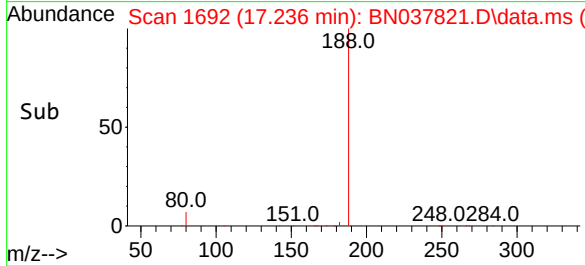
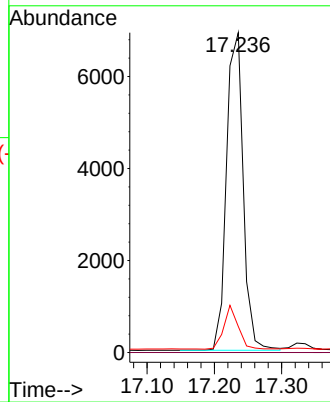
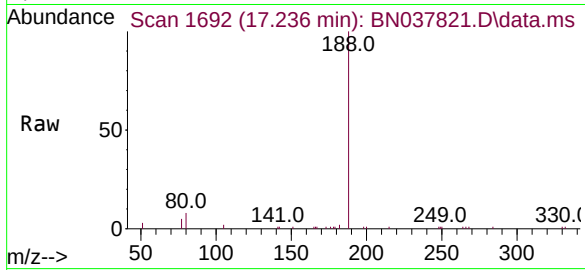
Tgt Ion:188 Resp: 11940

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 10.6 15.8#



#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037821.D

Acq: 19 Sep 2025 19:11

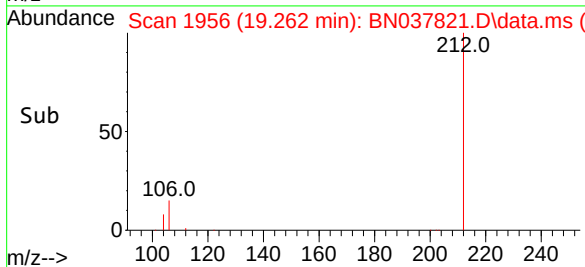
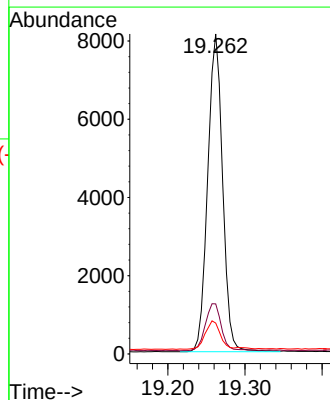
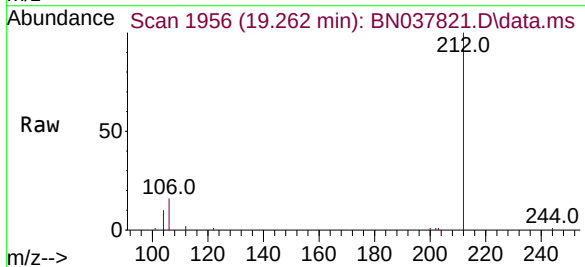
Tgt Ion:212 Resp: 10926

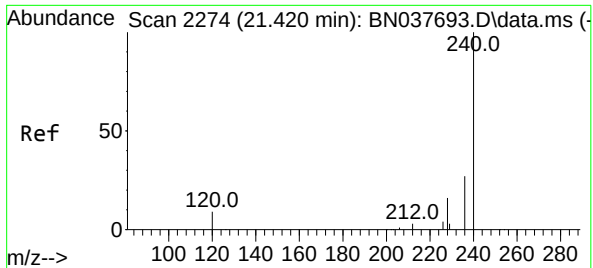
Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

104 8.8 6.9 10.3

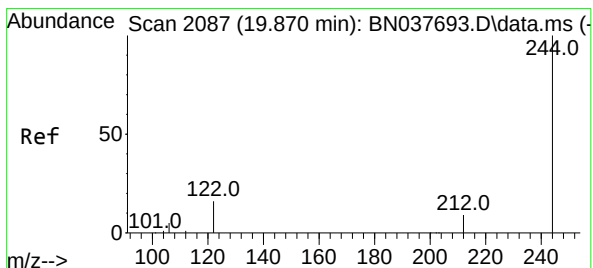
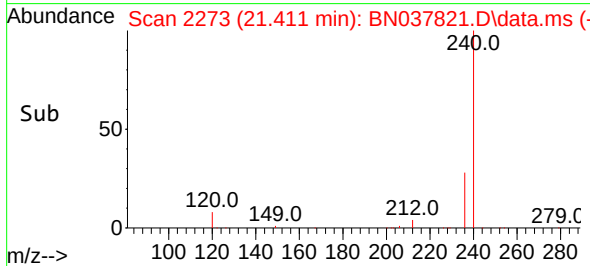
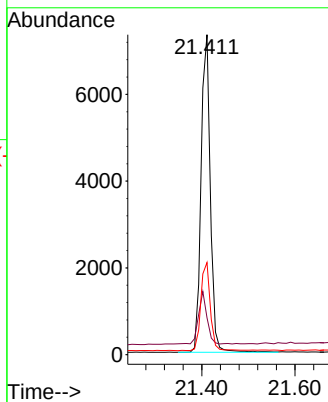
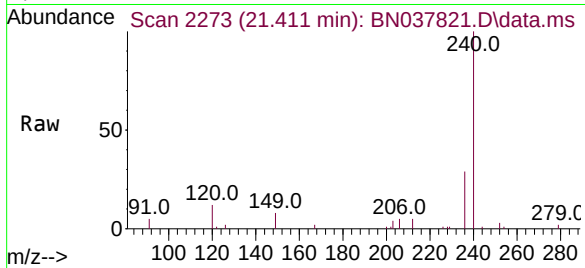




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

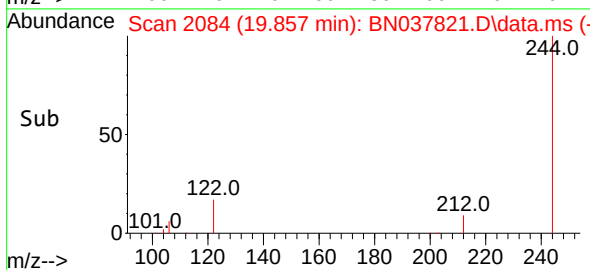
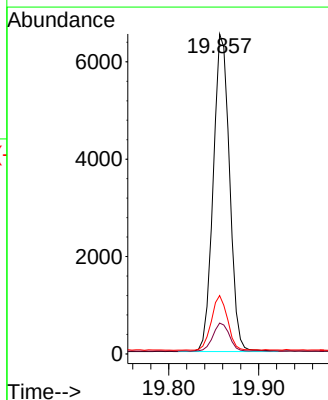
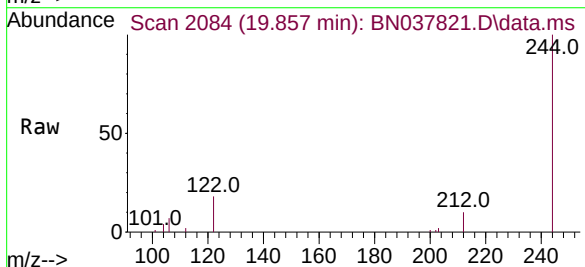
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

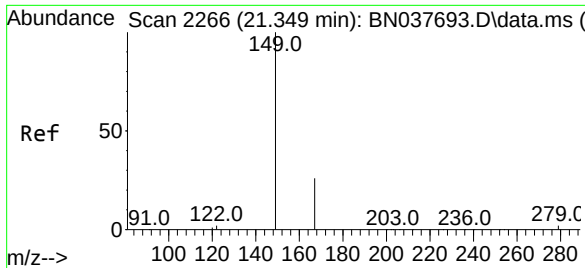
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.8	22.6	33.8



#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	18.2	13.2	19.8

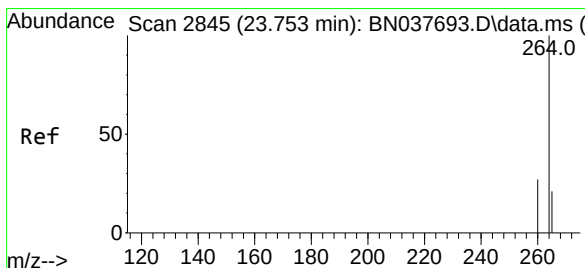
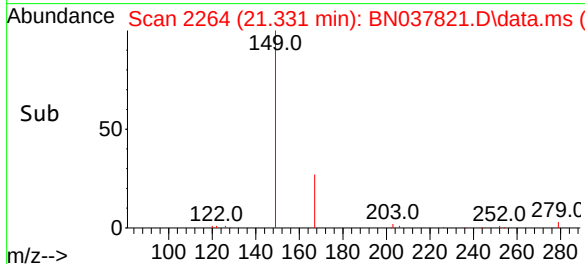
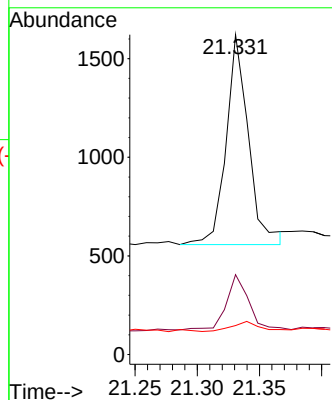
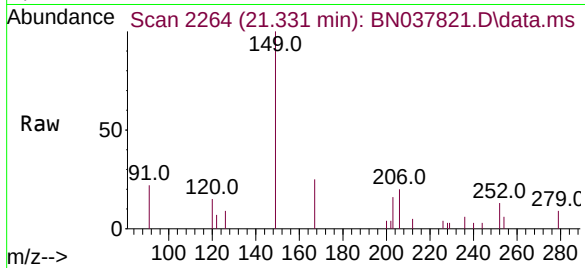




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.128 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

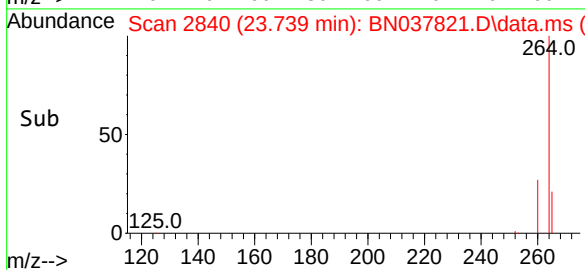
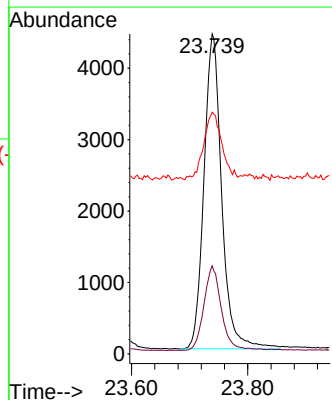
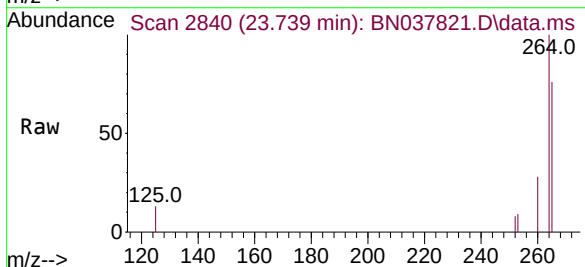
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250912

Tgt Ion:149 Resp: 1333
Ion Ratio Lower Upper
149 100
167 26.0 20.8 31.2
279 6.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037821.D
Acq: 19 Sep 2025 19:11

Tgt Ion:264 Resp: 9356
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 75.5 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-24	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
BN037822.D	1	09/16/25 09:39	09/19/25 19:47	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4340		7.833			
1146-65-2	Naphthalene-d8	12500		10.637			
15067-26-2	Acenaphthene-d10	4960		14.484			
1517-22-2	Phenanthrene-d10	9440		17.235			
1719-03-5	Chrysene-d12	8490		21.411			
1520-96-3	Perylene-d12	8220		23.739			

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\BN091925\
Data File : BN037822.D
Acq On : 19 Sep 2025 19:47
Operator : RC/JU
Sample : Q3097-24
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Quant Time: Sep 19 23:55:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

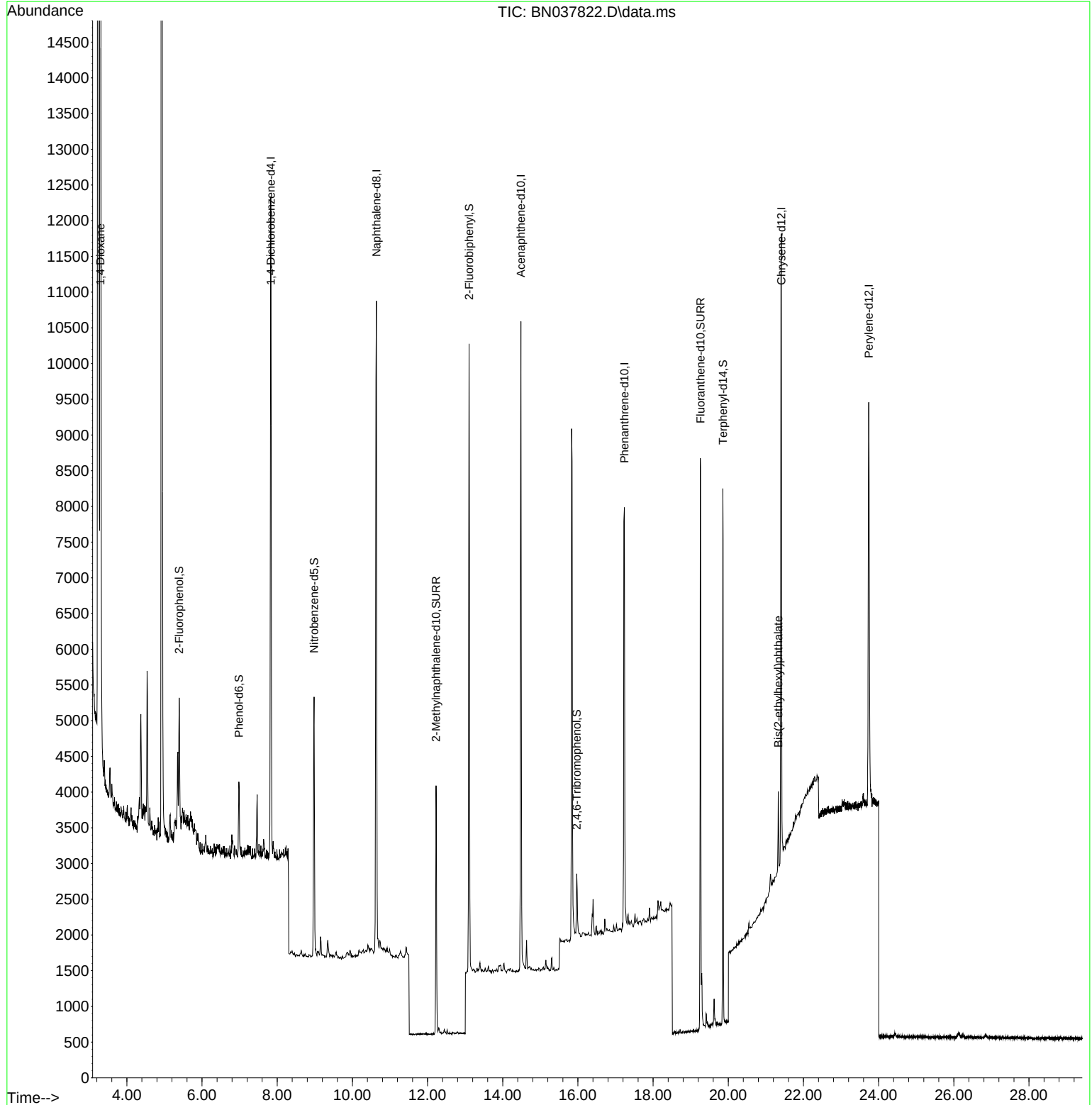
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4342	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12538	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	4964	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9435	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8486	0.400	ng	0.00
35) Perylene-d12	23.739	264	8219	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	1445	0.145	ng	0.00
5) Phenol-d6	6.981	99	972	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	2947	0.321	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4608	0.277	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	585	0.452	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7279	0.351	ng	-0.01
27) Fluoranthene-d10	19.262	212	8902	0.376	ng	0.00
31) Terphenyl-d14	19.857	244	6782	0.394	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	30135	6.663	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	945	0.108	ng	# 99

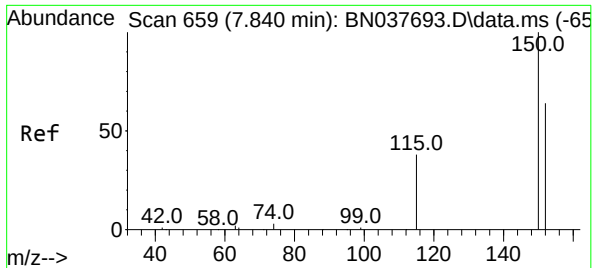
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037822.D
Acq On : 19 Sep 2025 19:47
Operator : RC/JU
Sample : Q3097-24
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

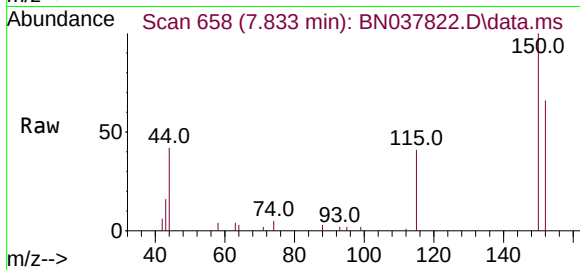
Quant Time: Sep 19 23:55:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



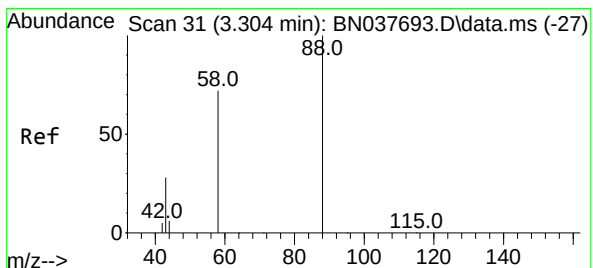
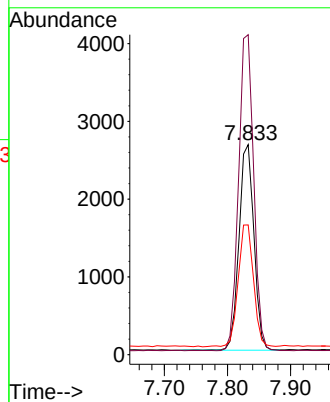
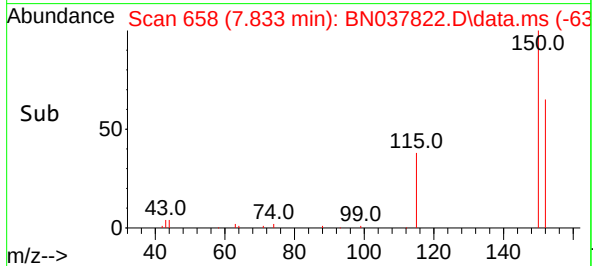


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

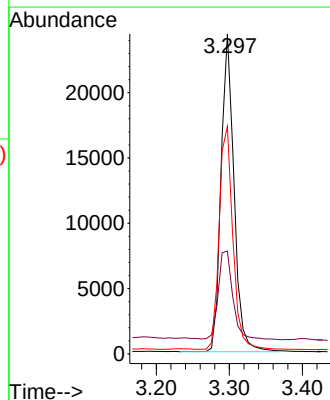
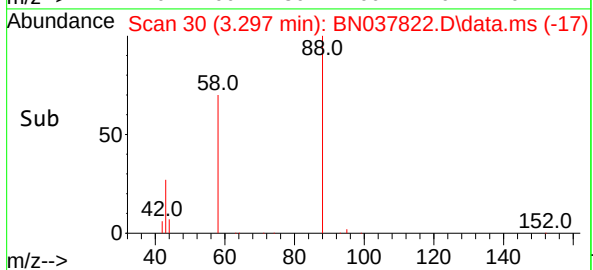
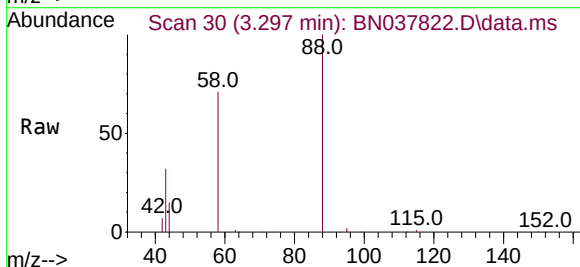


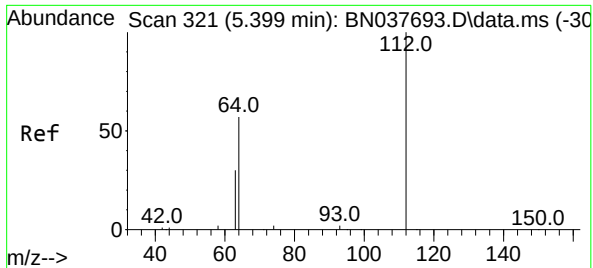
Tgt Ion:152 Resp: 4342
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 61.8 49.2 73.8



#2
1,4-Dioxane
Concen: 6.663 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion: 88 Resp: 30135
Ion Ratio Lower Upper
88 100
43 31.4 26.8 40.2
58 73.7 61.9 92.9

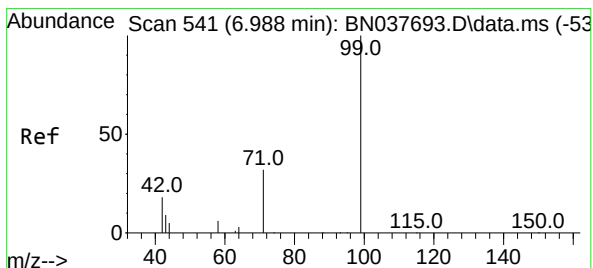
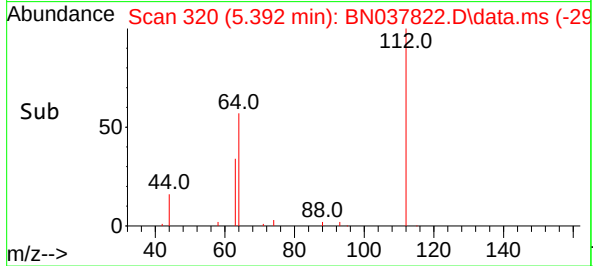
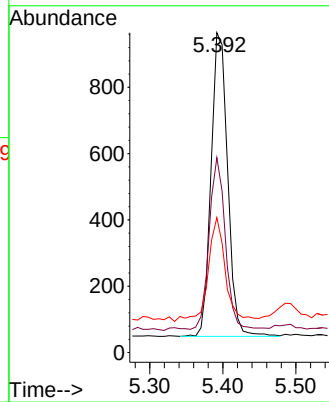
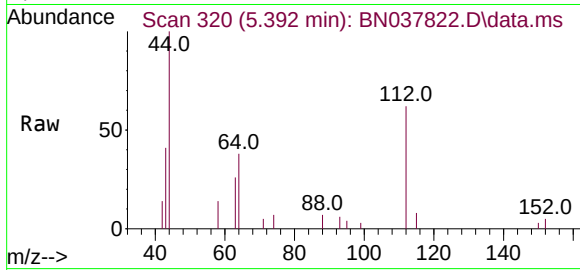




#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

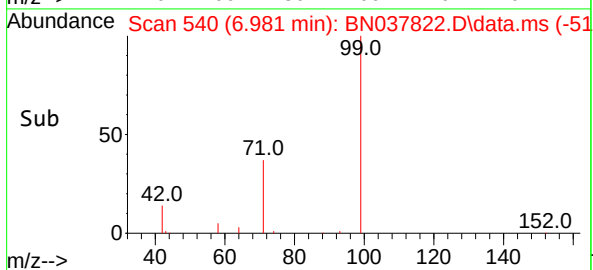
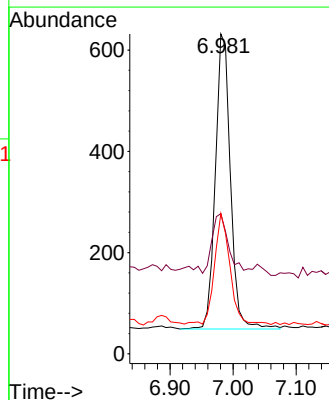
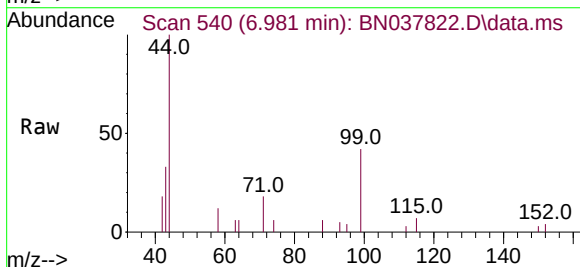
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

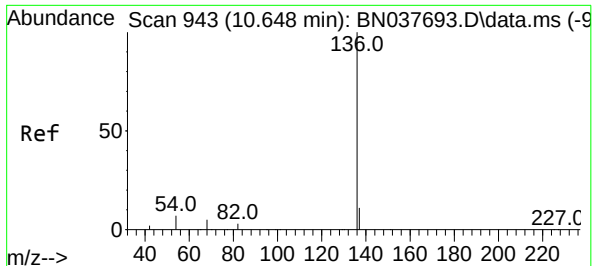
Tgt Ion:	112	Resp:	1445
Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	35.7	24.7	37.1



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:	99	Resp:	972
Ion	Ratio	Lower	Upper
99	100		
42	22.3	16.6	24.8
71	39.0	26.7	40.1

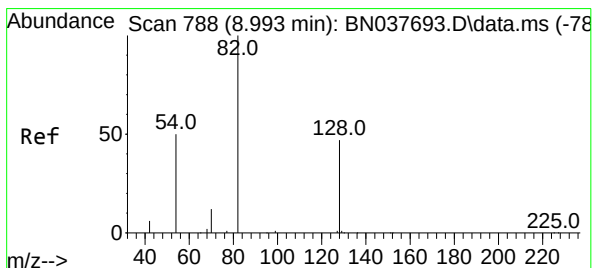
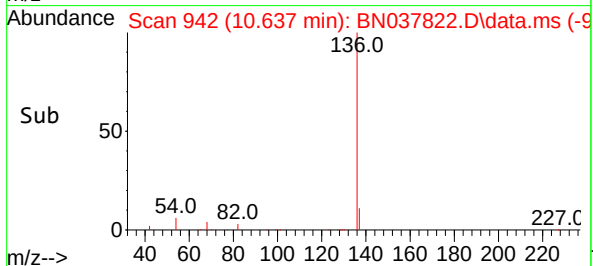
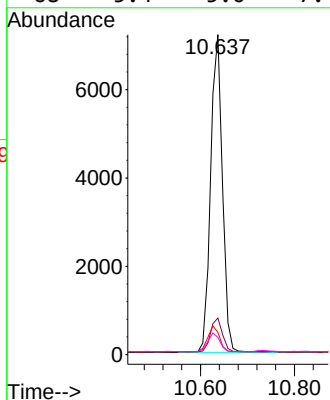
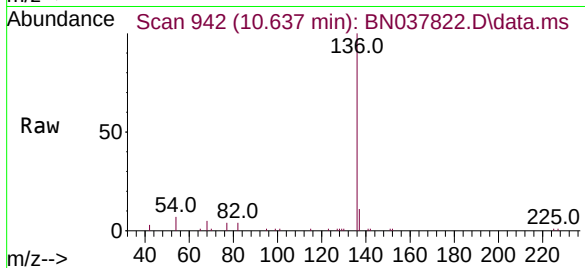




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

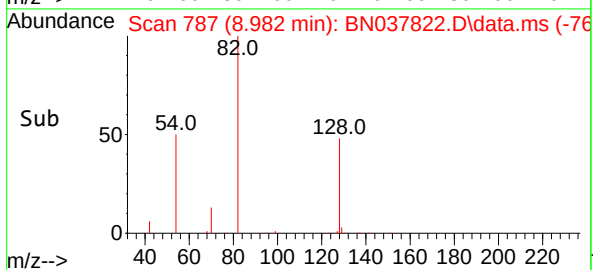
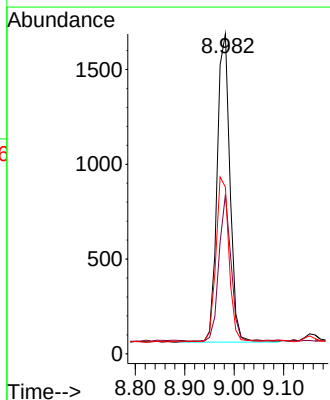
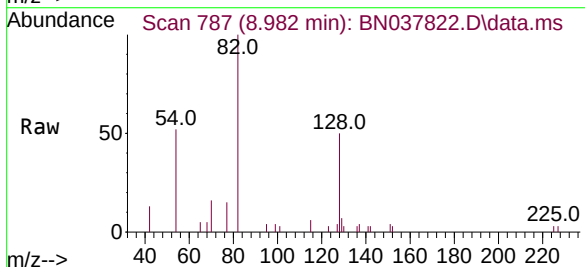
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

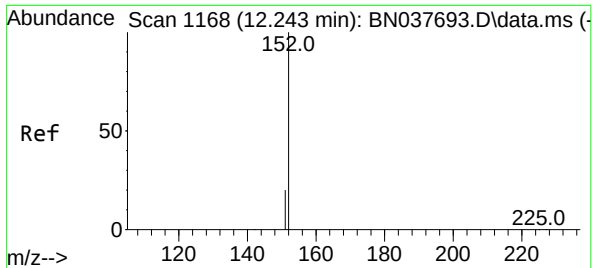
Tgt Ion:	136	Resp:	12538
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.9	6.3	9.5
68	5.4	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:	82	Resp:	2947
Ion	Ratio	Lower	Upper
82	100		
128	49.8	38.3	57.5
54	52.1	41.4	62.2

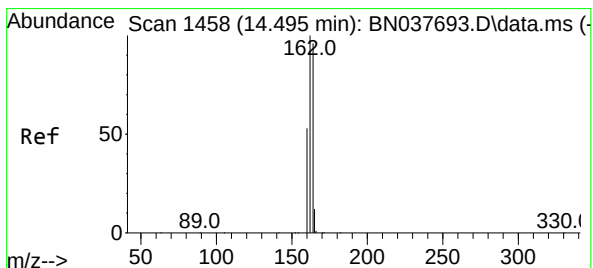
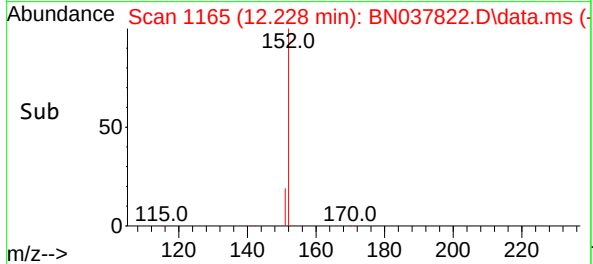
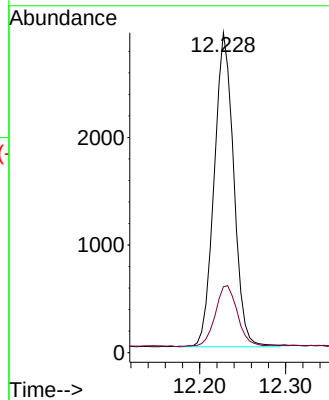
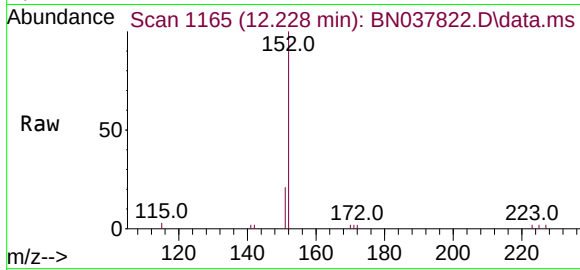




#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

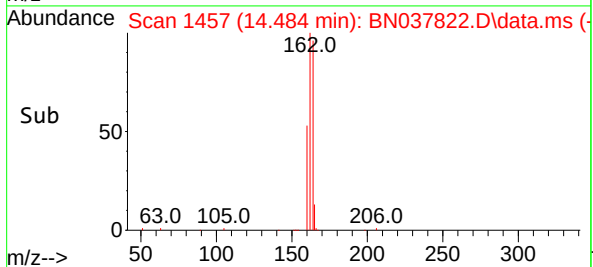
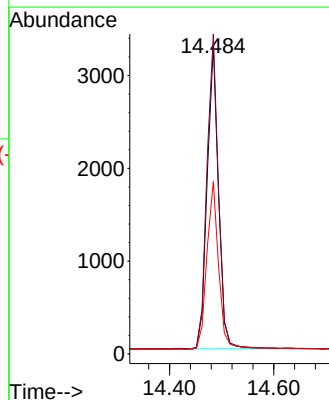
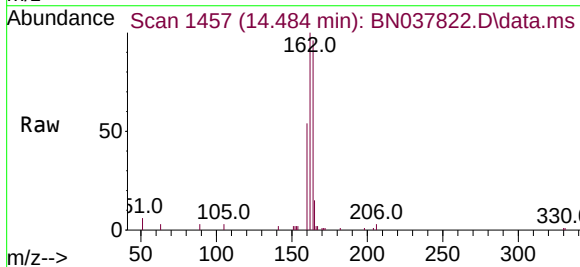
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

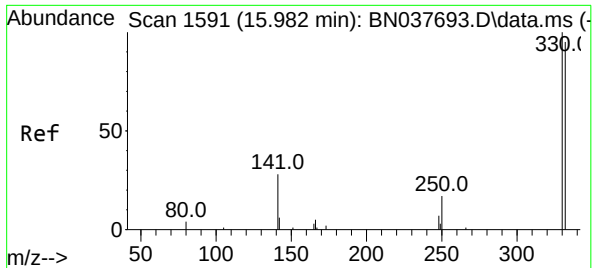
Tgt Ion:152 Resp: 4608
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:164 Resp: 4964
Ion Ratio Lower Upper
164 100
162 103.7 83.1 124.7
160 55.8 44.3 66.5

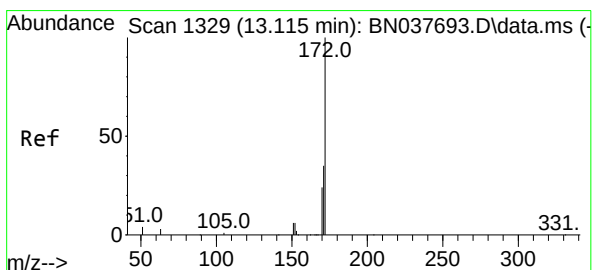
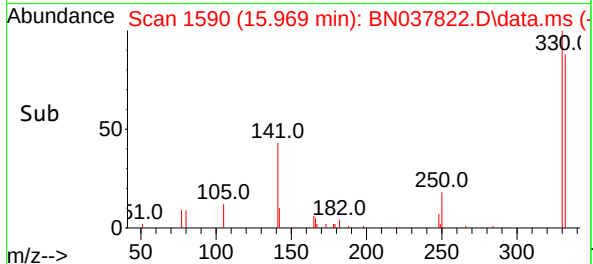
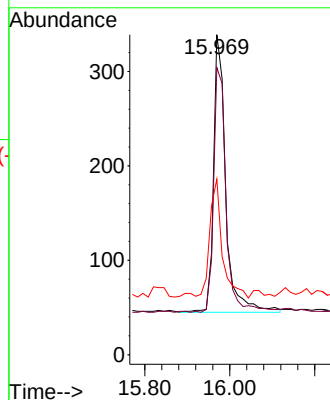
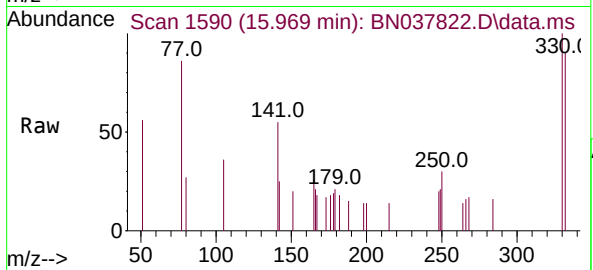




#14
2,4,6-Tribromophenol
Concen: 0.452 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

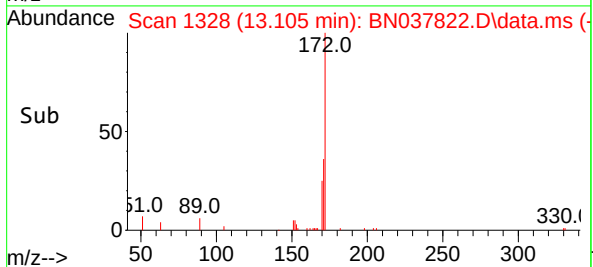
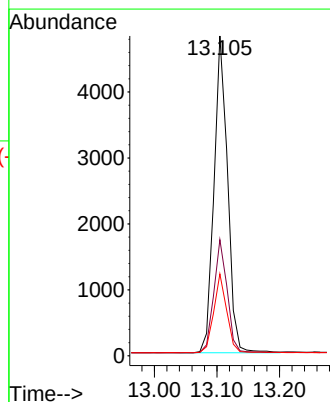
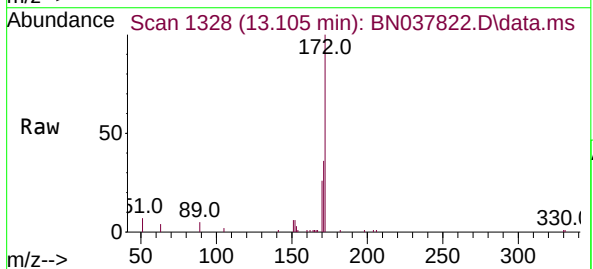
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

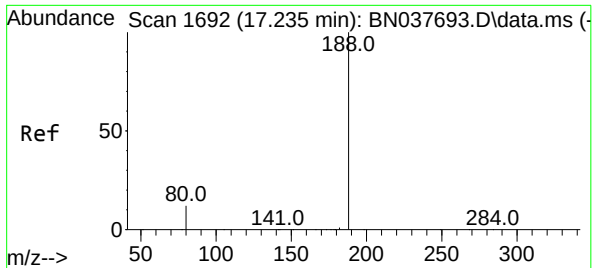
Tgt Ion	330	Resp	585
Ion Ratio	100		
Lower	75.3		
Upper	112.9		



#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion	172	Resp	7279
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		

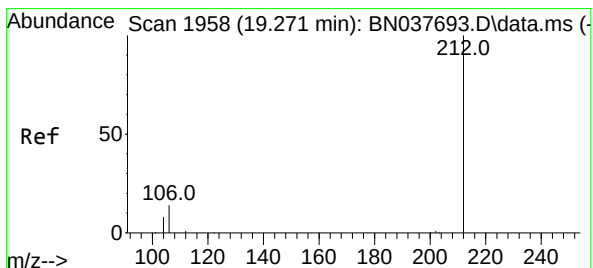
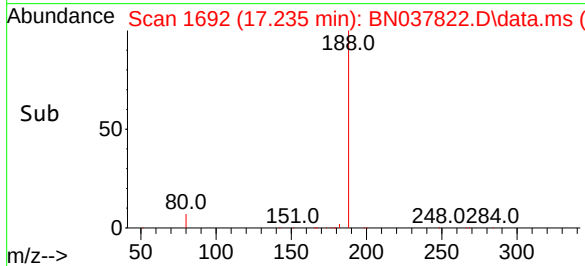
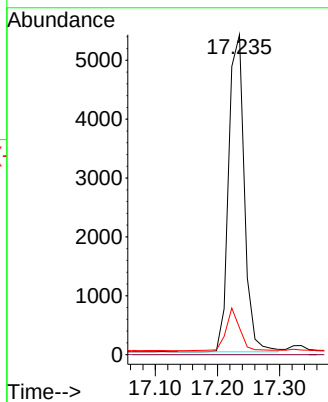
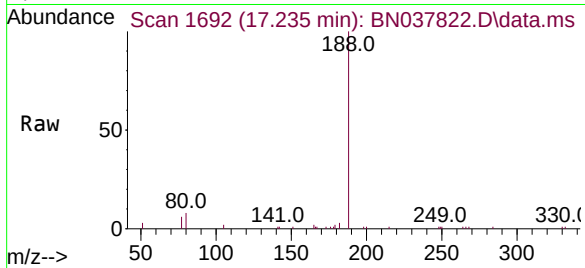




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

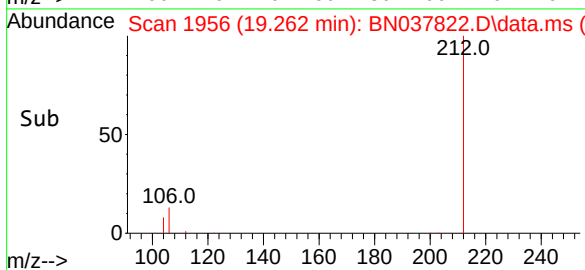
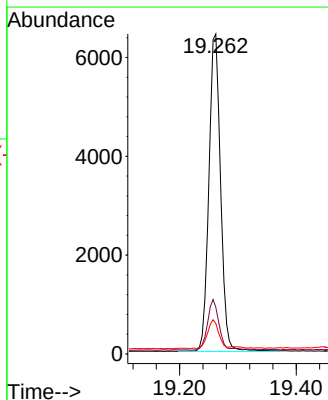
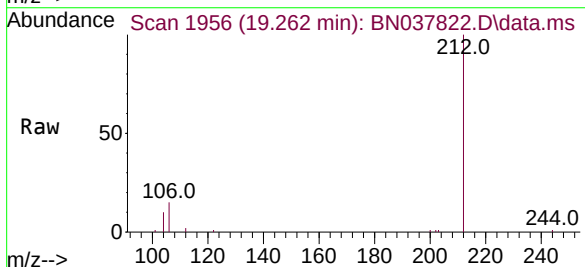
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

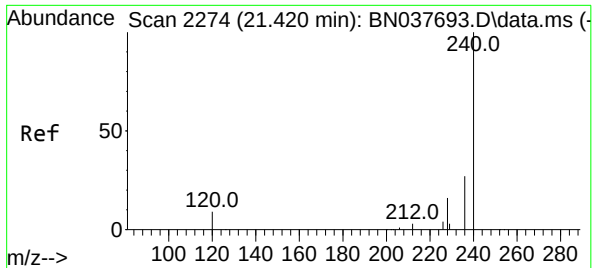
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	10.6	15.8#



#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.2	18.2
104	8.6	6.9	10.3

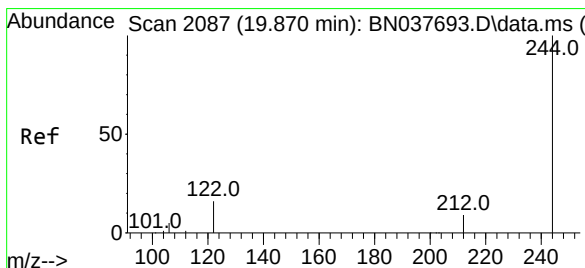
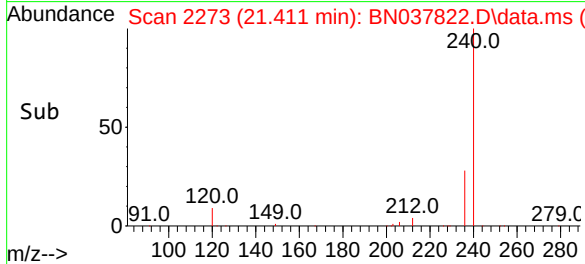
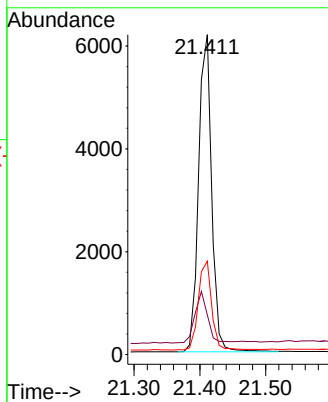
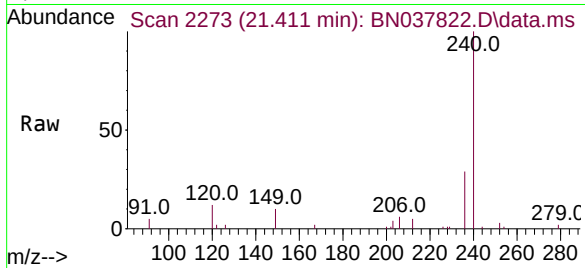




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

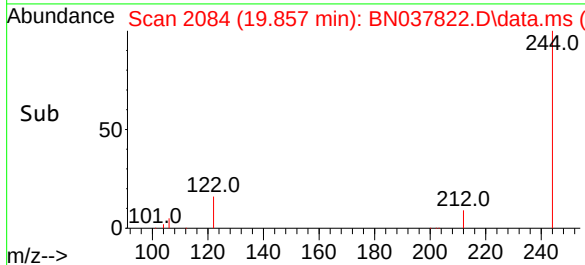
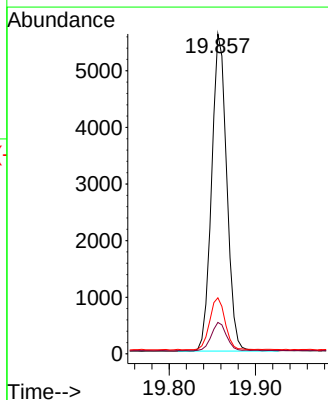
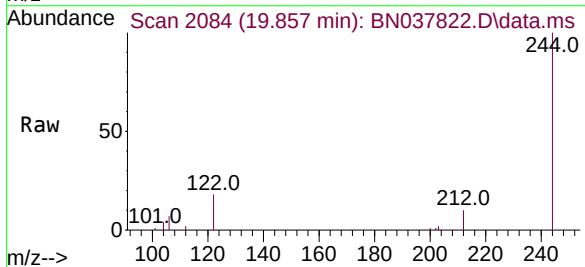
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

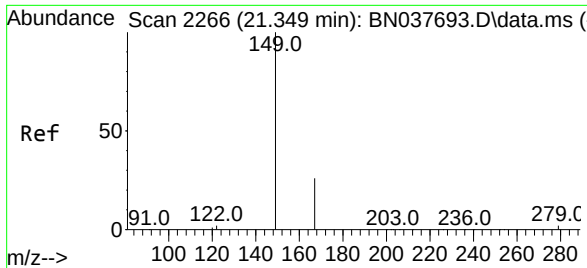
Tgt Ion:240 Resp: 8486
Ion Ratio Lower Upper
240 100
120 12.4 9.2 13.8
236 29.2 22.6 33.8



#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:244 Resp: 6782
Ion Ratio Lower Upper
244 100
212 9.8 7.5 11.3
122 17.5 13.2 19.8

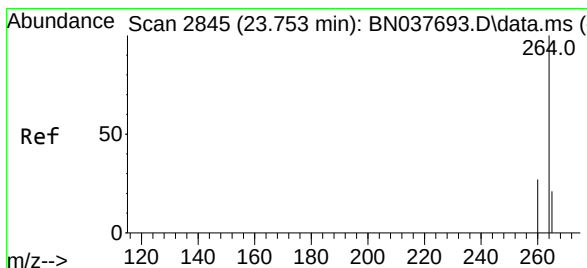
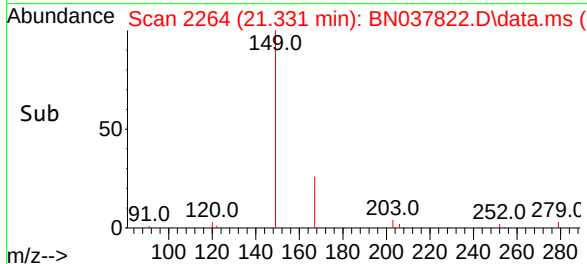
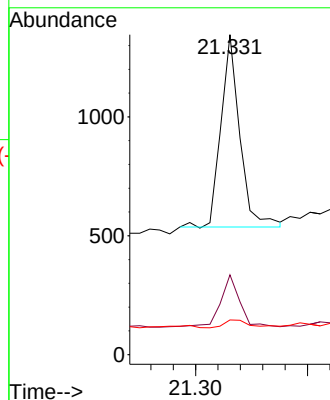
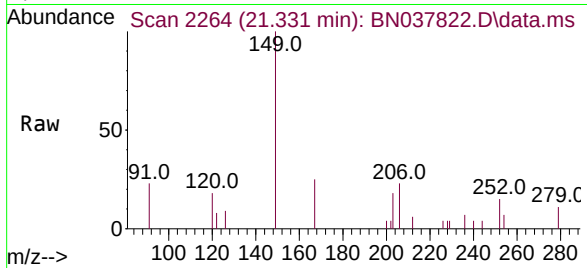




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.108 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

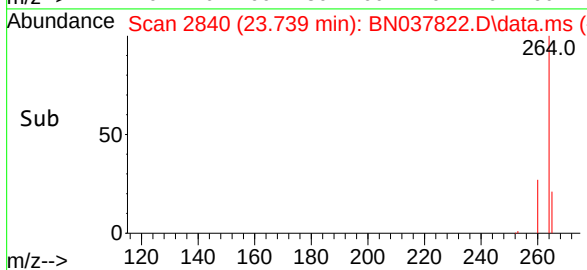
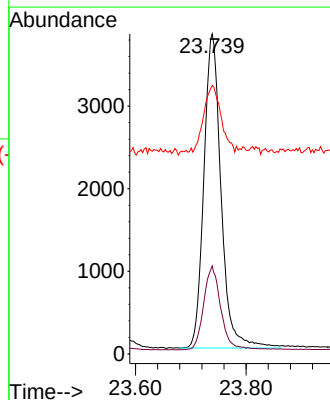
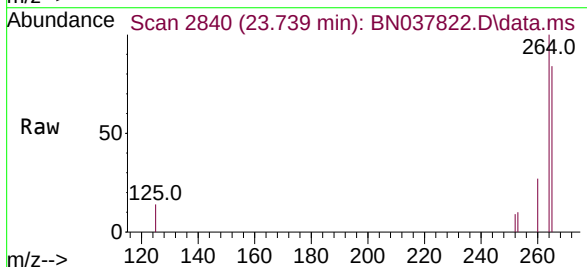
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912

Tgt Ion:149 Resp: 945
Ion Ratio Lower Upper
149 100
167 26.2 20.8 31.2
279 5.1 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2840
Delta R.T. -0.015 min
Lab File: BN037822.D
Acq: 19 Sep 2025 19:47

Tgt Ion:264 Resp: 8219
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 83.9 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912DL		SDG No.:	Q3097
Lab Sample ID:	Q3097-24DL		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
BN037851.D	2	09/16/25 09:39	09/22/25 11:31	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5950		7.826			
1146-65-2	Naphthalene-d8	15400		10.626			
15067-26-2	Acenaphthene-d10	6320		14.484			
1517-22-2	Phenanthrene-d10	11500		17.223			
1719-03-5	Chrysene-d12	10100		21.402			
1520-96-3	Perylene-d12	9650		23.736			

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\BN092225\
Data File : BN037851.D
Acq On : 22 Sep 2025 11:31
Operator : RC/JU
Sample : Q3097-24DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Quant Time: Sep 22 12:11:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

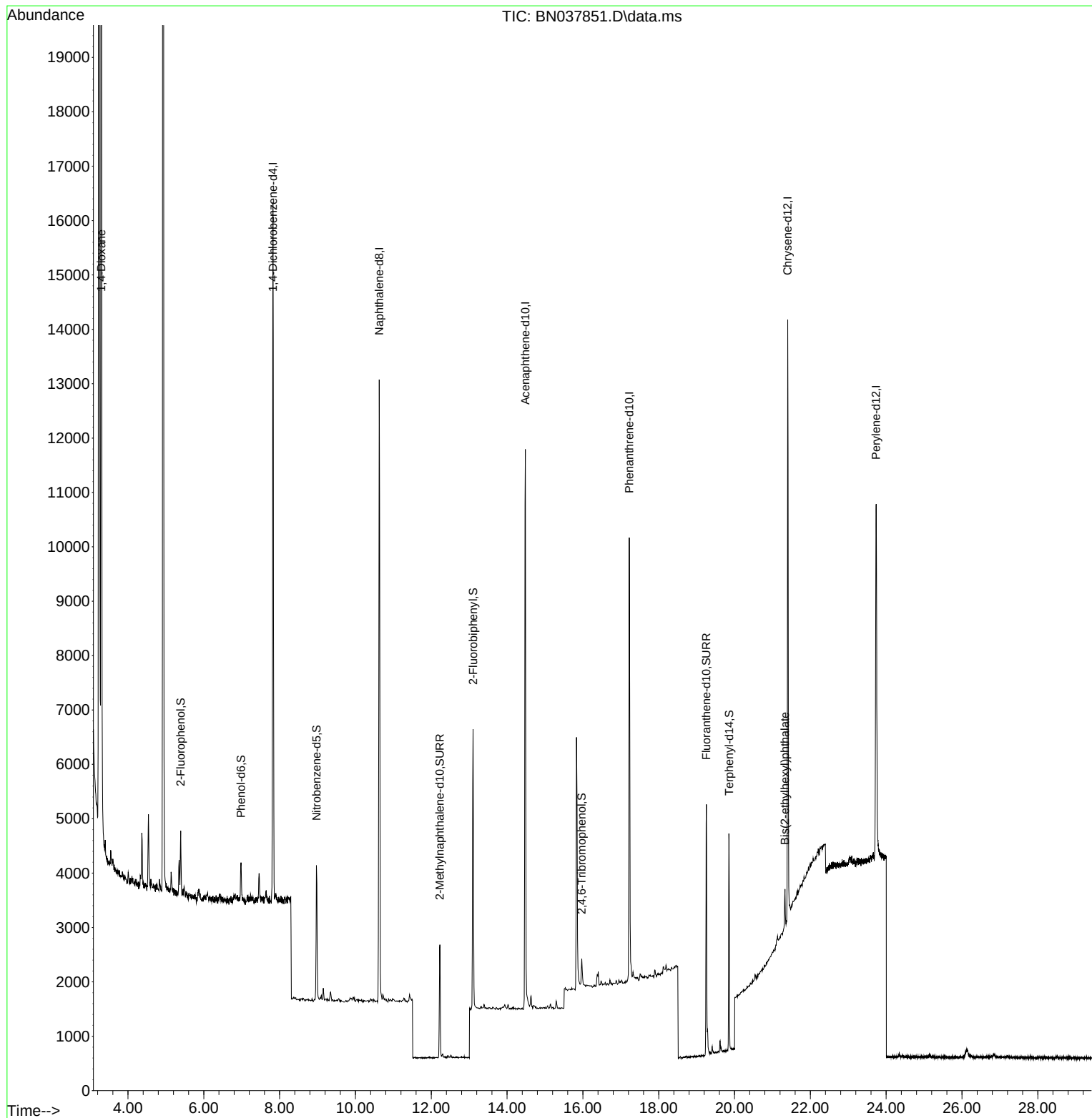
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5950	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	15397	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6317	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11463	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	10054	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9647	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	889	0.065	ng	0.00
5) Phenol-d6	6.981	99	658	0.037	ng	0.00
8) Nitrobenzene-d5	8.971	82	2011	0.179	ng	-0.02
11) 2-Methylnaphthalene-d10	12.228	152	2884	0.141	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	360	0.218	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4578	0.173	ng	-0.01
27) Fluoranthene-d10	19.257	212	5111	0.178	ng	-0.01
31) Terphenyl-d14	19.856	244	3791	0.186	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	20276	3.272	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	700	0.067	ng	# 96

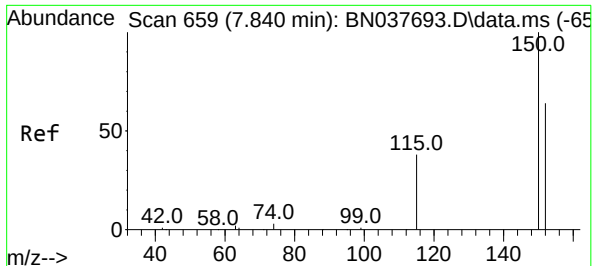
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037851.D
Acq On : 22 Sep 2025 11:31
Operator : RC/JU
Sample : Q3097-24DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

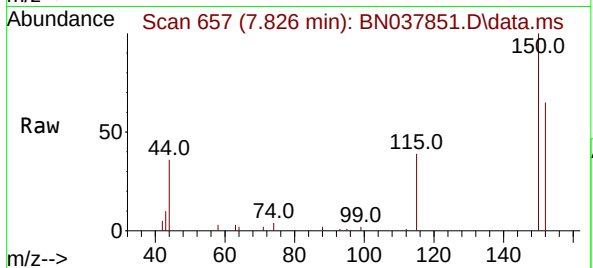
Quant Time: Sep 22 12:11:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



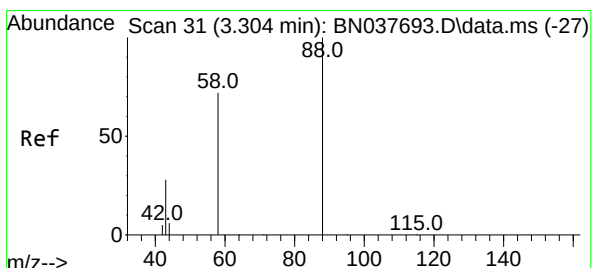
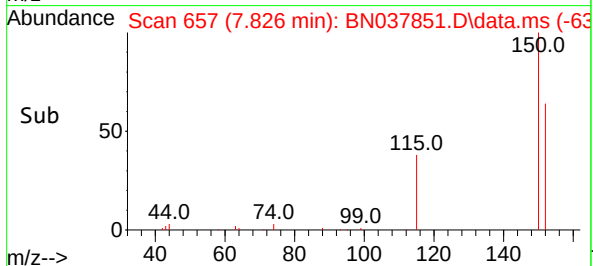
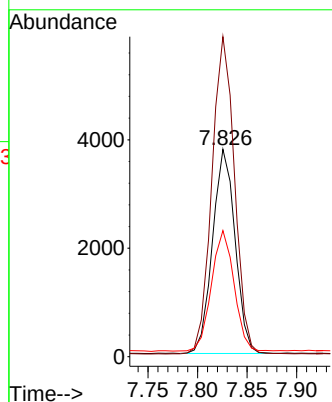


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

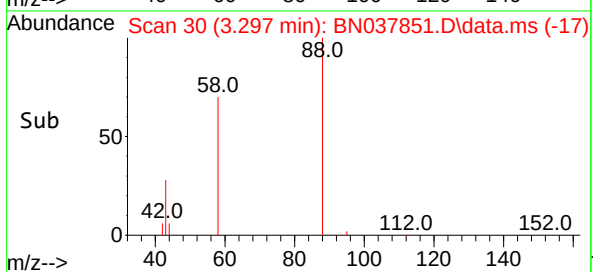
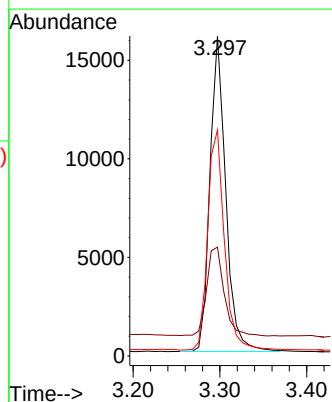
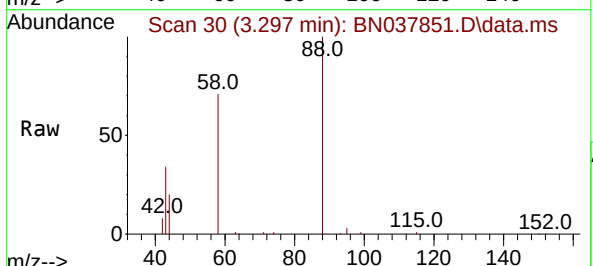


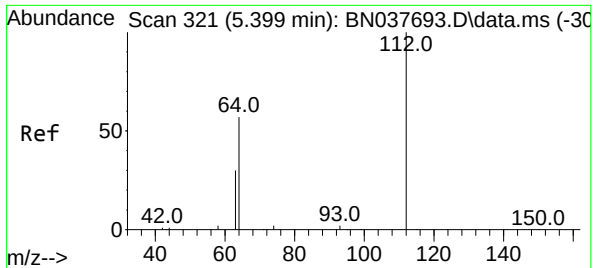
Tgt Ion:152 Resp: 5950
Ion Ratio Lower Upper
152 100
150 154.3 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 3.272 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion: 88 Resp: 20276
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 73.7 61.9 92.9

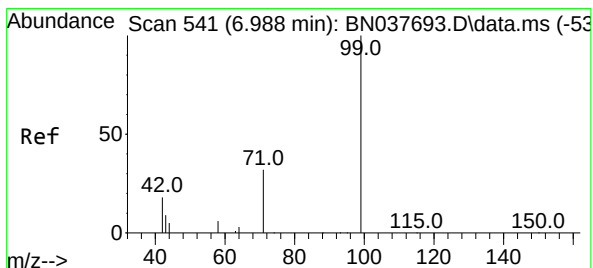
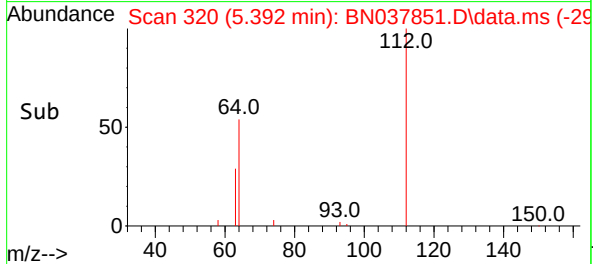
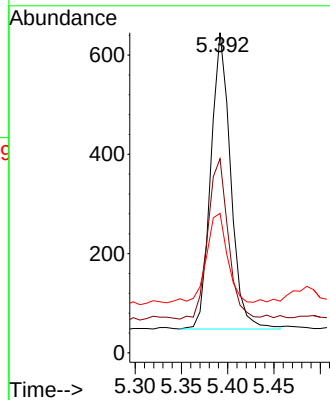
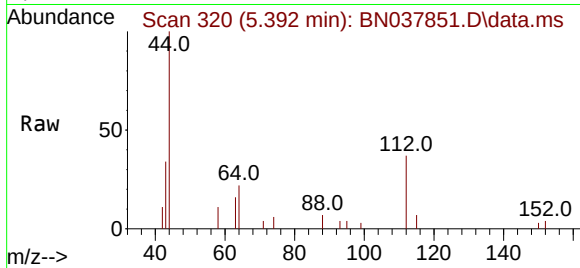




#4
2-Fluorophenol
Concen: 0.065 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

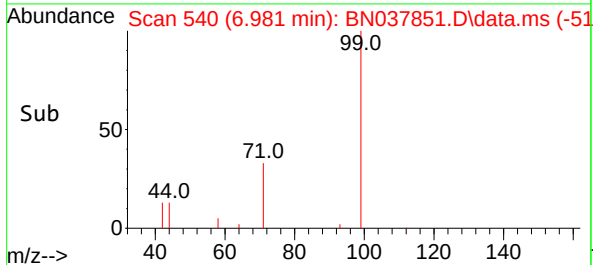
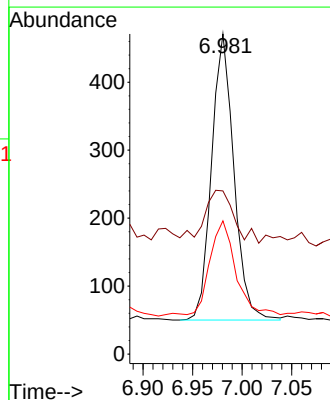
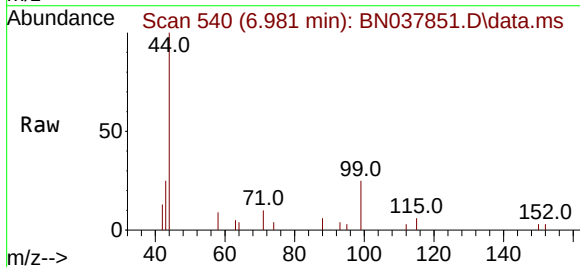
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

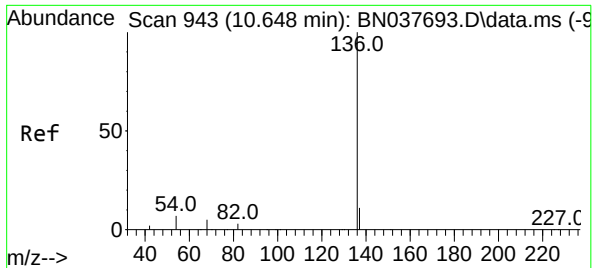
Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	44.9	67.3
63	33.4	24.7	37.1



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.8	16.6	24.8
71	38.9	26.7	40.1

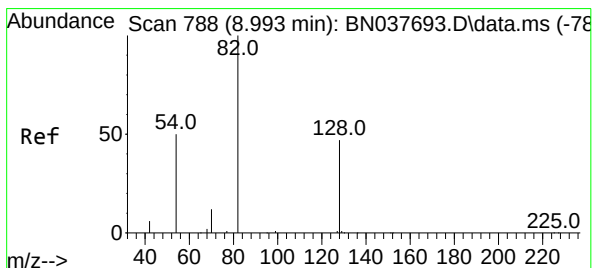
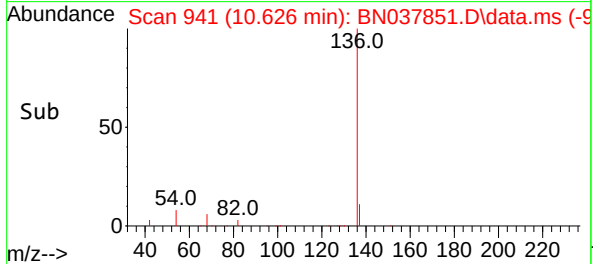
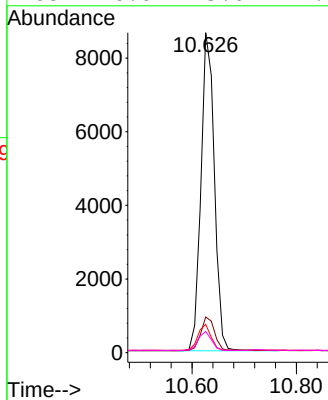
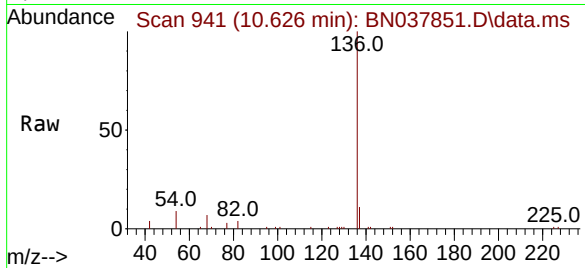




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

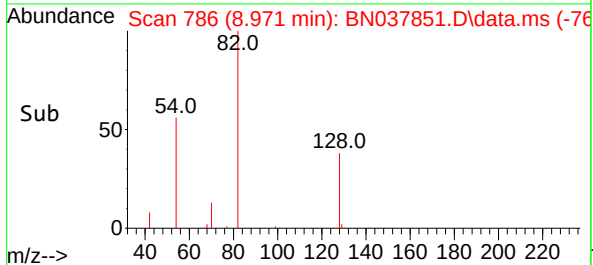
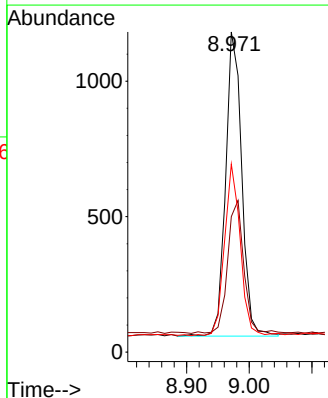
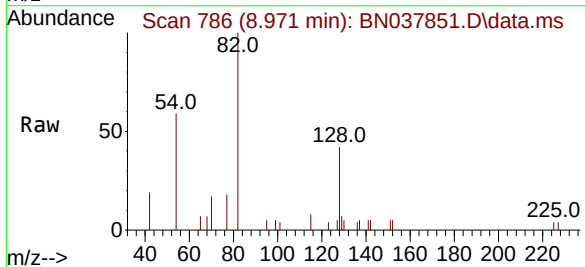
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

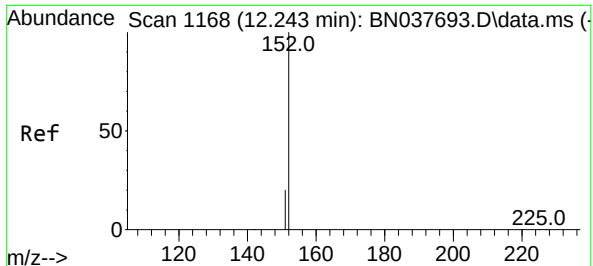
Tgt Ion:	136	Resp:	15397
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	8.8	6.3	9.5
68	6.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.179 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:	82	Resp:	2011
Ion	Ratio	Lower	Upper
82	100		
128	42.3	38.3	57.5
54	58.7	41.4	62.2

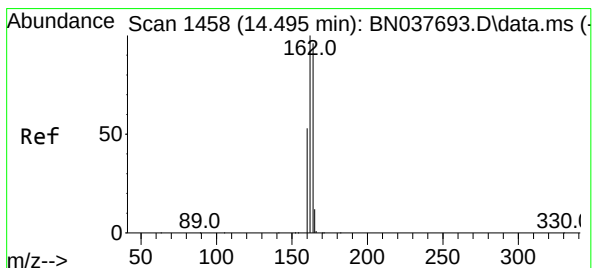
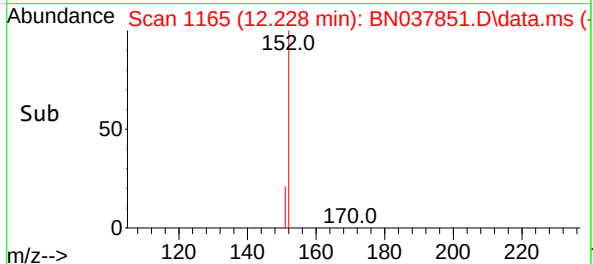
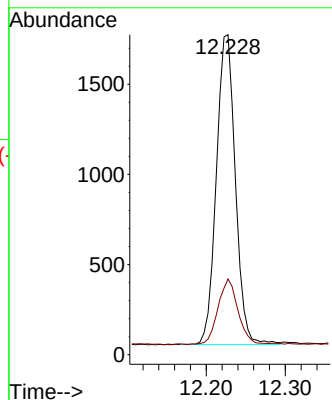
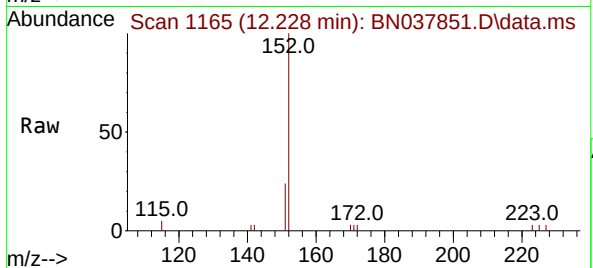




#11
2-Methylnaphthalene-d10
Concen: 0.141 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

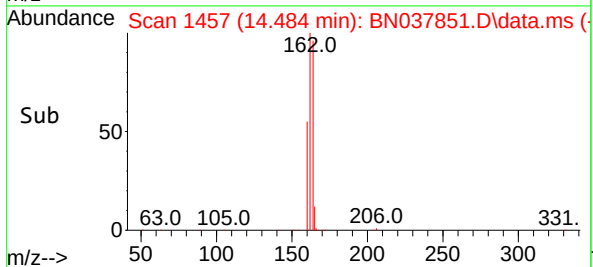
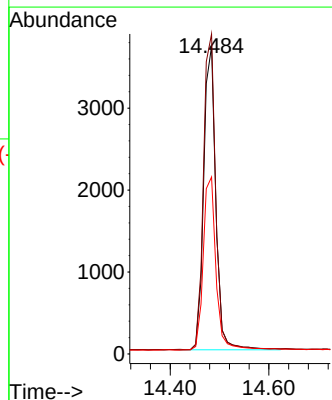
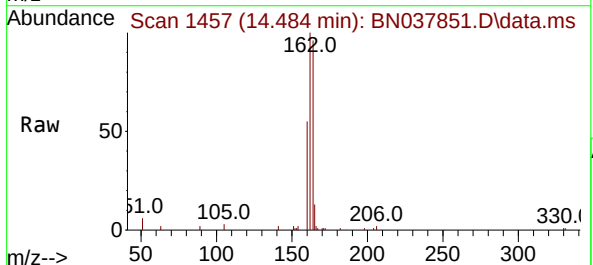
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

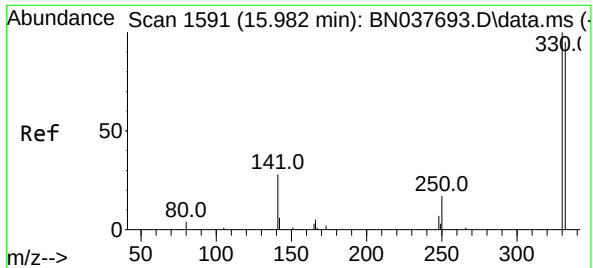
Tgt Ion:152 Resp: 2884
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:164 Resp: 6317
Ion Ratio Lower Upper
164 100
162 104.1 83.1 124.7
160 57.5 44.3 66.5

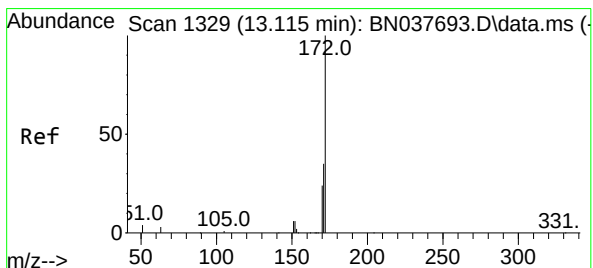
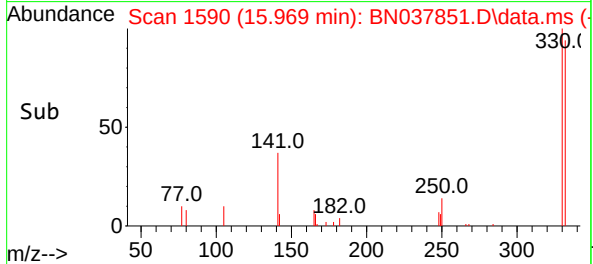
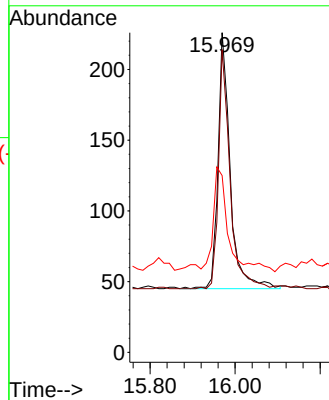
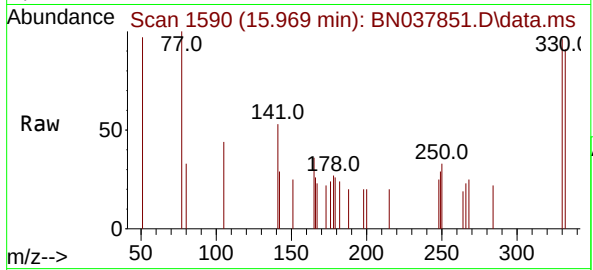




#14
2,4,6-Tribromophenol
Concen: 0.218 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

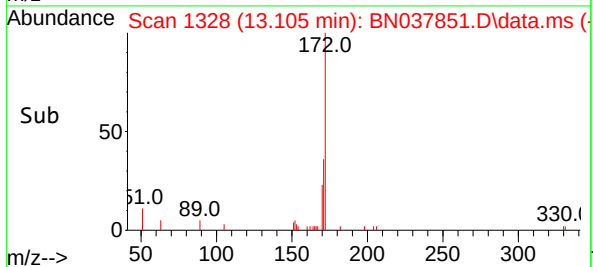
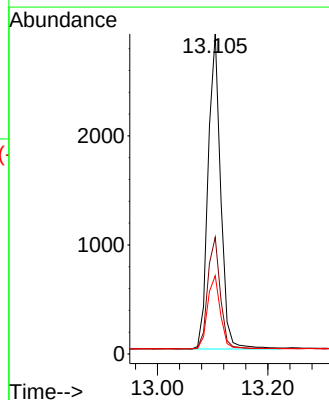
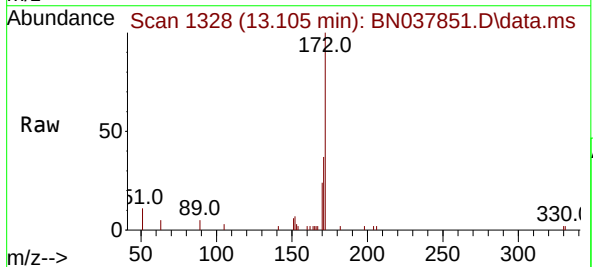
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

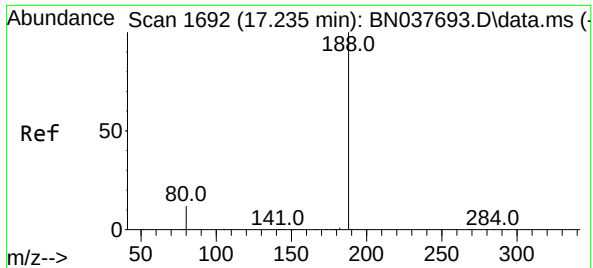
Tgt Ion:	330	Resp:	360
Ion Ratio	Lower	Upper	
330	100		
332	88.3	75.3	112.9
141	50.3	35.0	52.4



#15
2-Fluorobiphenyl
Concen: 0.173 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:	172	Resp:	4578
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.6	43.0
170	24.4	19.8	29.8

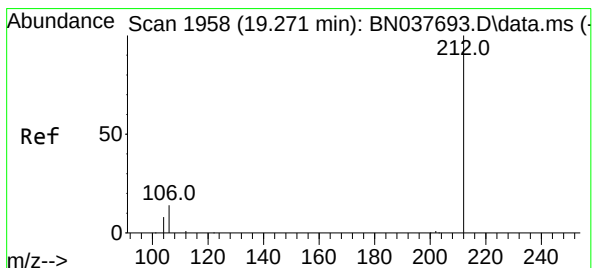
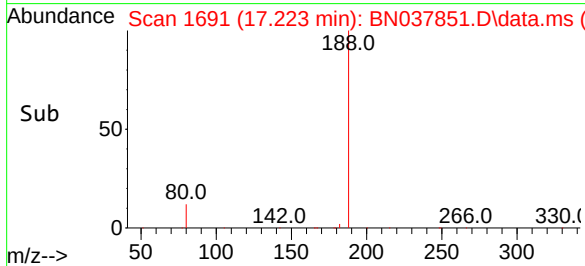
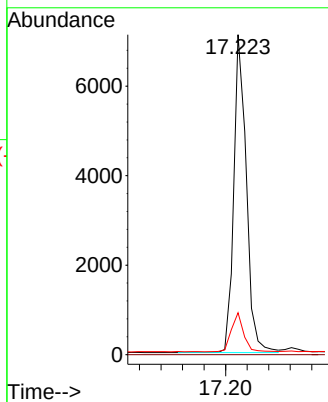
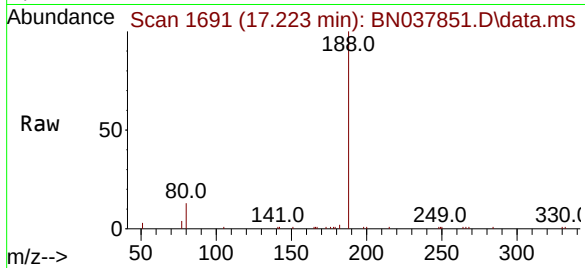




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

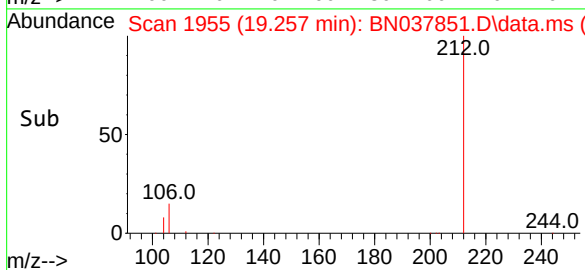
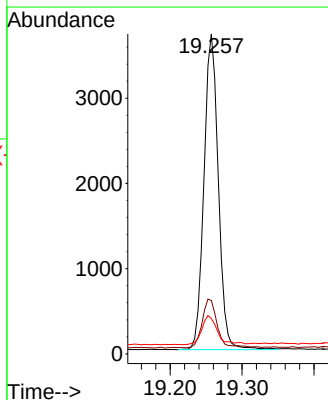
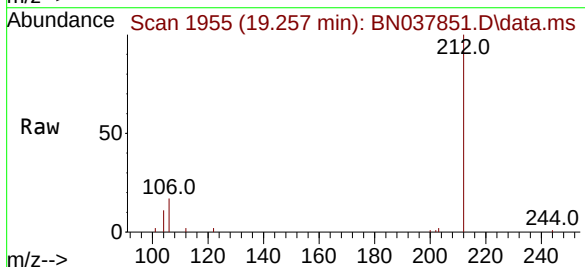
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

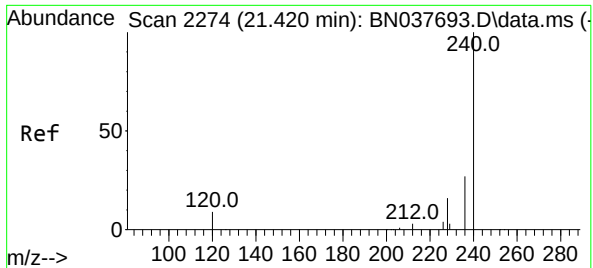
Tgt Ion:	188	Resp:	11463
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.1	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.178 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:	212	Resp:	5111
Ion Ratio	Lower	Upper	
212	100		
106	16.2	12.2	18.2
104	10.0	6.9	10.3

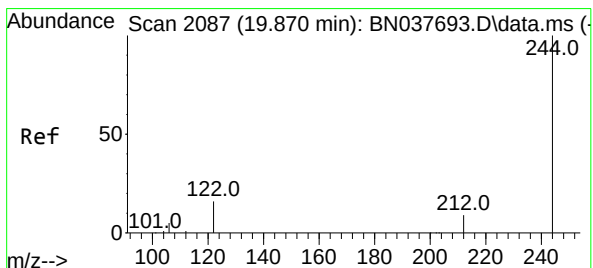
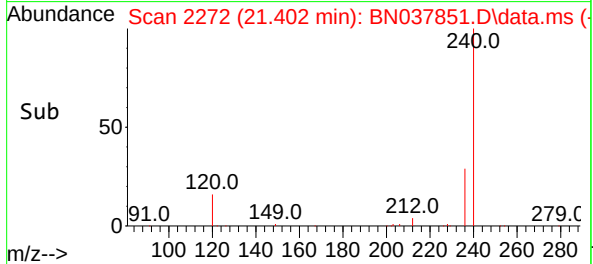
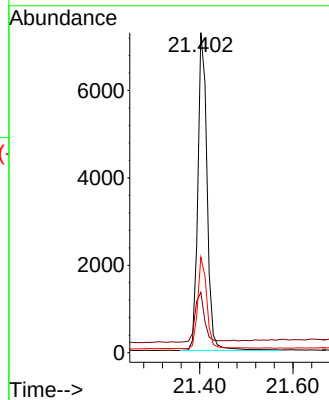
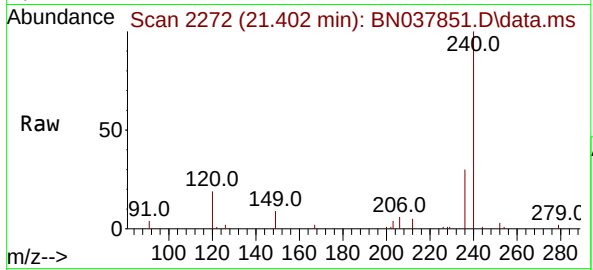




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

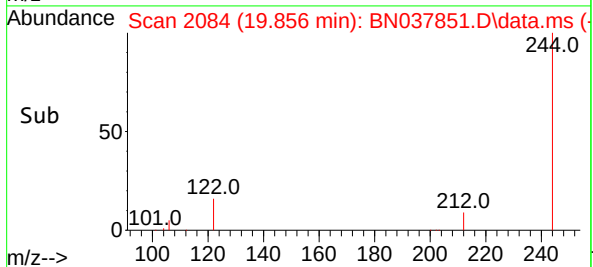
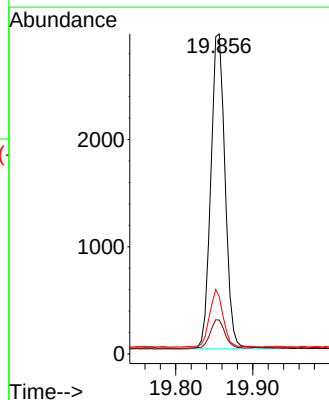
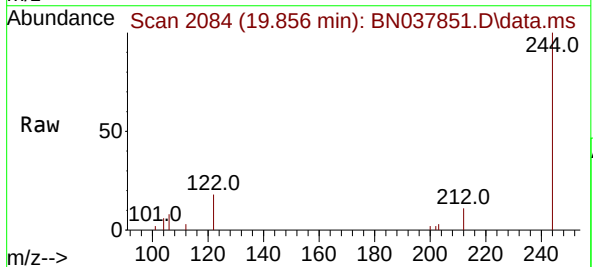
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

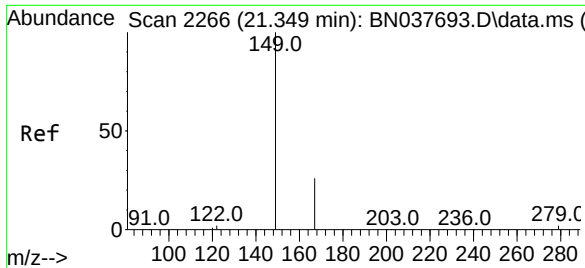
Tgt Ion:240 Resp: 10054
Ion Ratio Lower Upper
240 100
120 18.8 9.2 13.8#
236 29.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.186 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:244 Resp: 3791
Ion Ratio Lower Upper
244 100
212 10.6 7.5 11.3
122 17.9 13.2 19.8

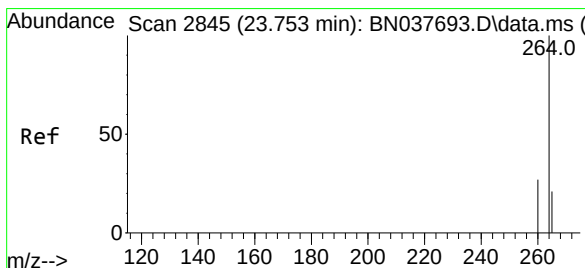
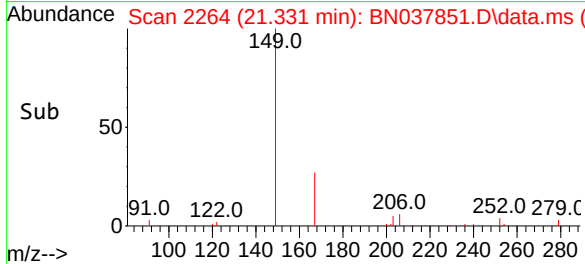
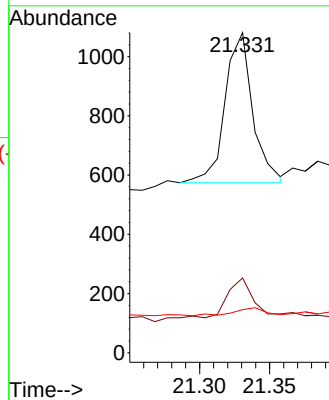
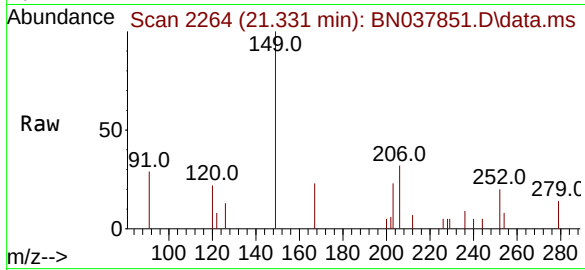




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 21.331 min Scan# 21331
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

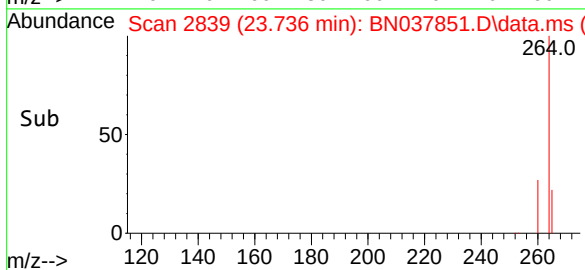
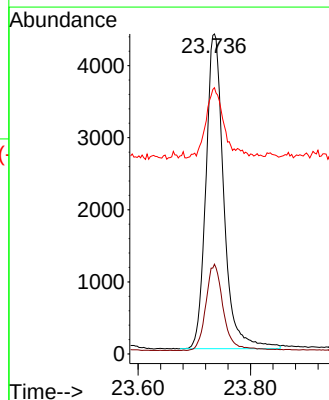
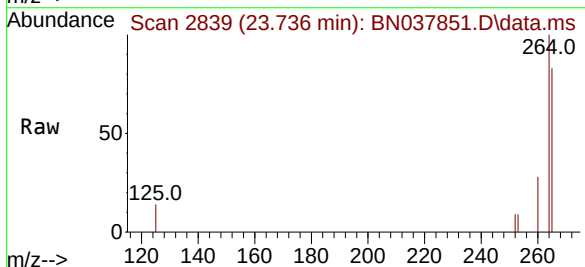
Instrument :
BNA_N
ClientSampleId :
RE134D2-20250912DL

Tgt Ion:149 Resp: 700
Ion Ratio Lower Upper
149 100
167 28.0 20.8 31.2
279 6.0 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037851.D
Acq: 22 Sep 2025 11:31

Tgt Ion:264 Resp: 9647
Ion Ratio Lower Upper
264 100
260 28.0 21.8 32.8
265 83.2 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-25	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
BN037823.D	1	09/16/25 09:39	09/19/25 20:24	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5220	7.832				
1146-65-2	Naphthalene-d8	13500	10.637				
15067-26-2	Acenaphthene-d10	5080	14.484				
1517-22-2	Phenanthrene-d10	9520	17.223				
1719-03-5	Chrysene-d12	8590	21.402				
1520-96-3	Perylene-d12	8160	23.735				

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\BN091925\
Data File : BN037823.D
Acq On : 19 Sep 2025 20:24
Operator : RC/JU
Sample : Q3097-25
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Quant Time: Sep 19 23:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

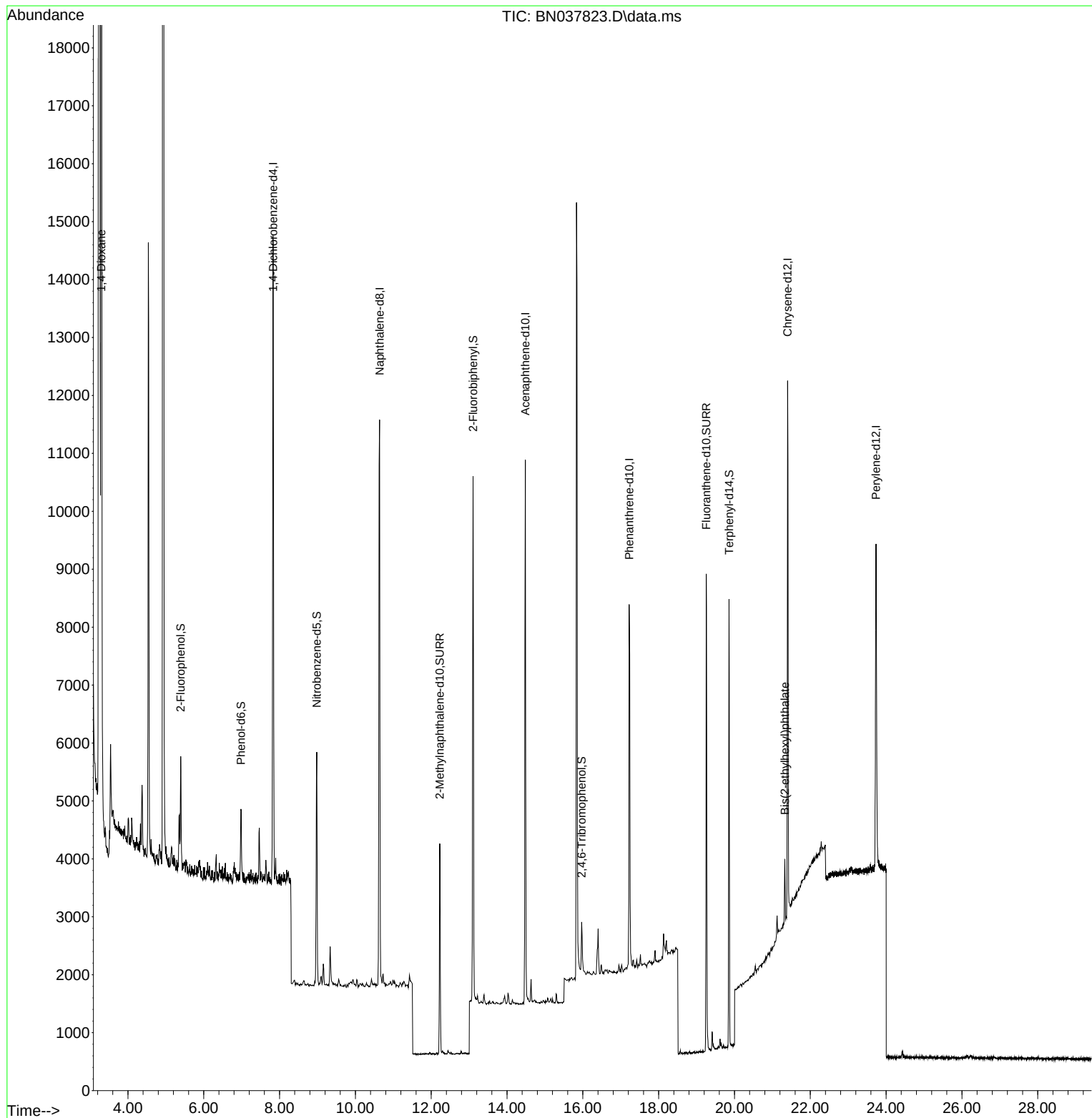
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	5215	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	13534	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5080	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9523	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8588	0.400	ng	#-0.02
35) Perylene-d12	23.735	264	8162	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	1523	0.127	ng	0.00
5) Phenol-d6	6.980	99	1128	0.073	ng	0.00
8) Nitrobenzene-d5	8.982	82	3274	0.331	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	4921	0.274	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	576	0.435	ng	-0.01
15) 2-Fluorobiphenyl	13.104	172	7504	0.353	ng	-0.01
27) Fluoranthene-d10	19.257	212	8915	0.373	ng	-0.01
31) Terphenyl-d14	19.856	244	7135	0.409	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	30782	5.667	ng	95
34) Bis(2-ethylhexyl)phtha...	21.330	149	1168	0.132	ng	96

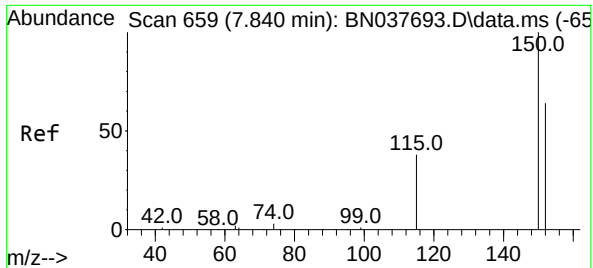
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037823.D
Acq On : 19 Sep 2025 20:24
Operator : RC/JU
Sample : Q3097-25
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

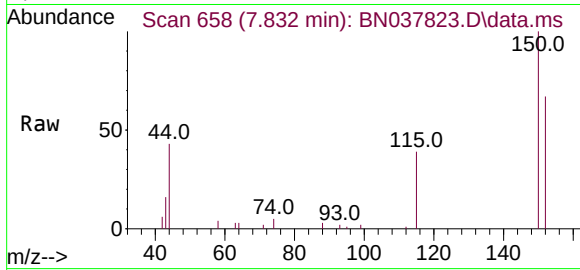
Quant Time: Sep 19 23:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



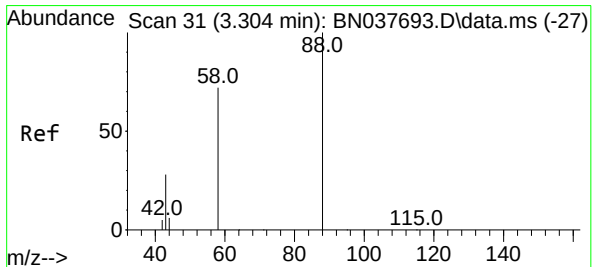
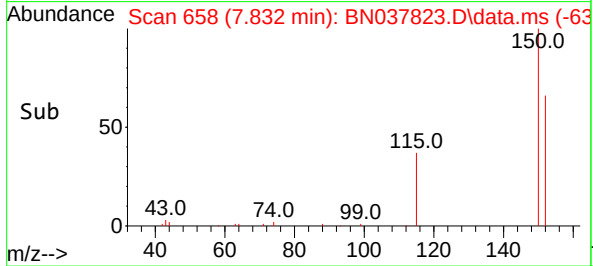
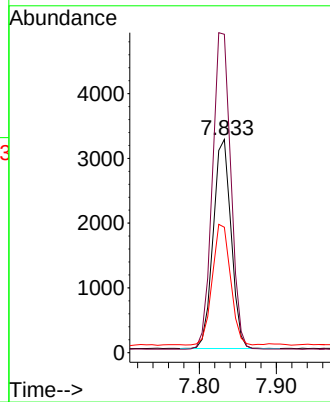


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

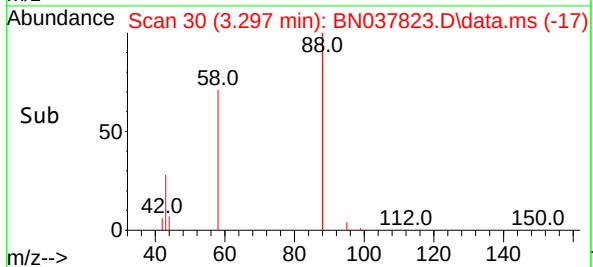
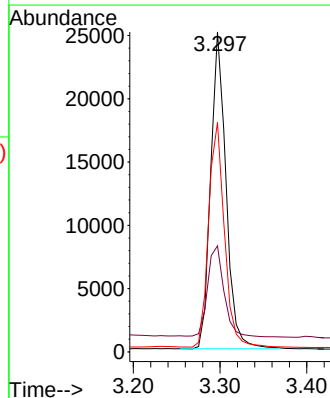
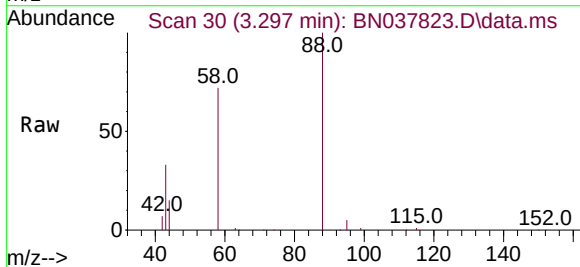


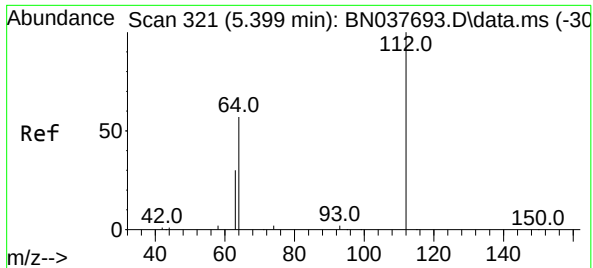
Tgt Ion:152 Resp: 5215
Ion Ratio Lower Upper
152 100
150 149.3 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 5.667 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.008 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion: 88 Resp: 30782
Ion Ratio Lower Upper
88 100
43 30.9 26.8 40.2
58 72.8 61.9 92.9

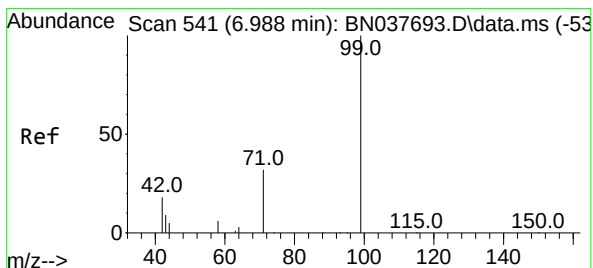
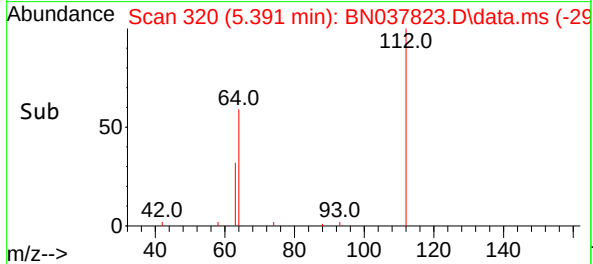
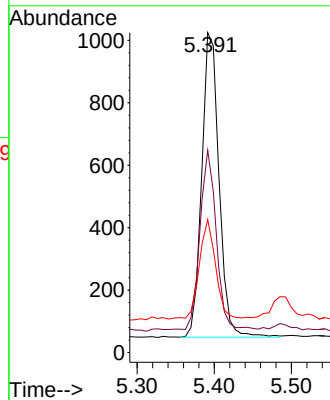
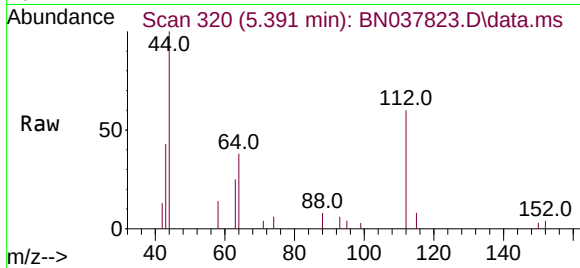




#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.391 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

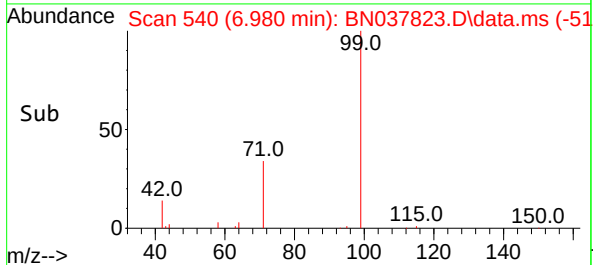
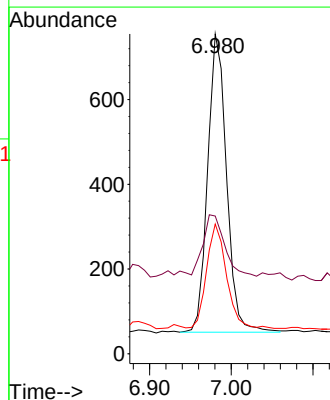
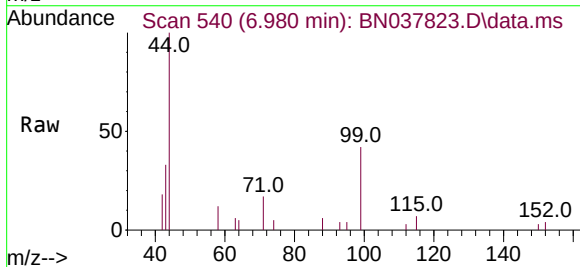
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

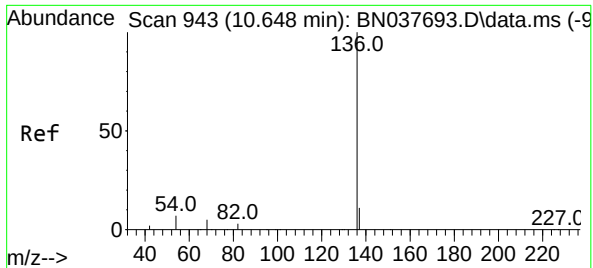
Tgt Ion:	112	Resp:	1523
Ion	Ratio	Lower	Upper
112	100		
64	55.2	44.9	67.3
63	31.7	24.7	37.1



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:	99	Resp:	1128
Ion	Ratio	Lower	Upper
99	100		
42	23.7	16.6	24.8
71	38.4	26.7	40.1

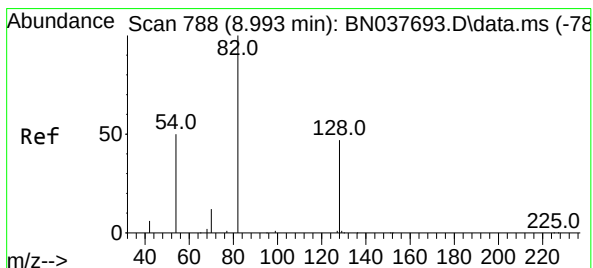
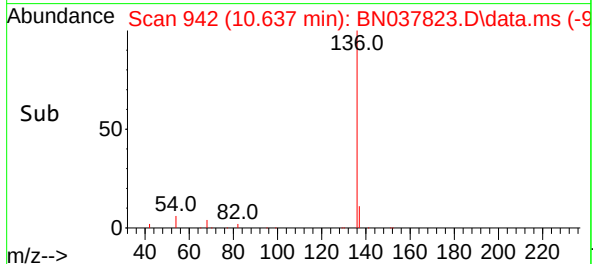
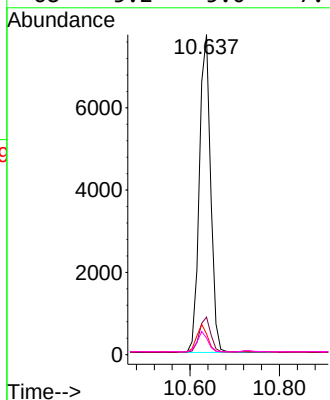
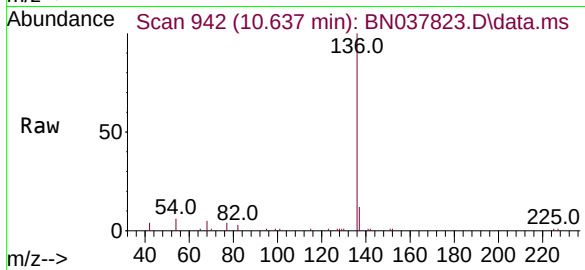




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

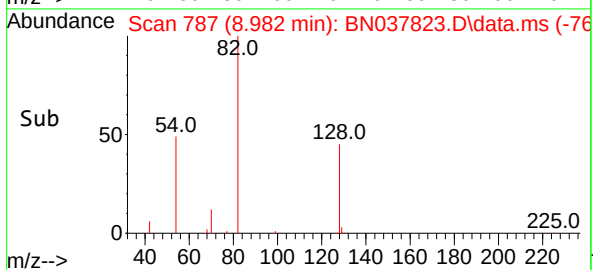
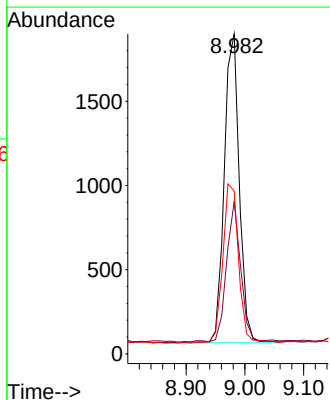
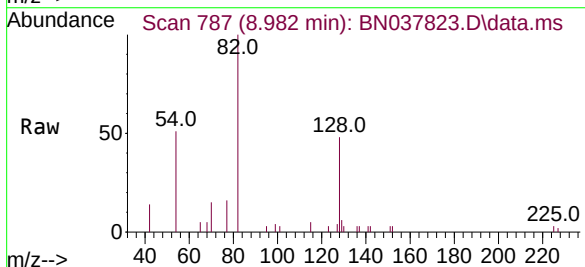
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

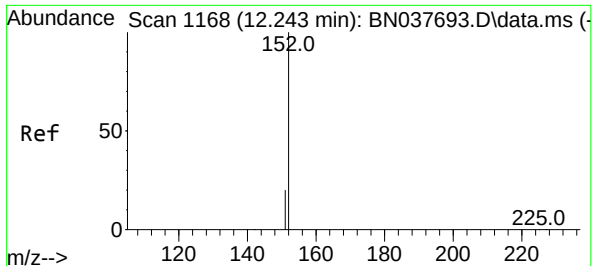
Tgt Ion:136	Resp:	13534
Ion Ratio	Lower	Upper
136	100	
137	11.7	9.1 13.7
54	6.5	6.3 9.5
68	5.2	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion: 82	Resp:	3274
Ion Ratio	Lower	Upper
82	100	
128	47.6	38.3 57.5
54	50.9	41.4 62.2

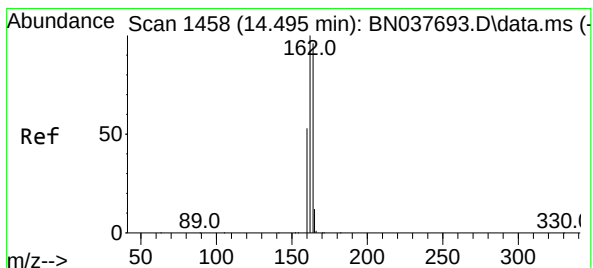
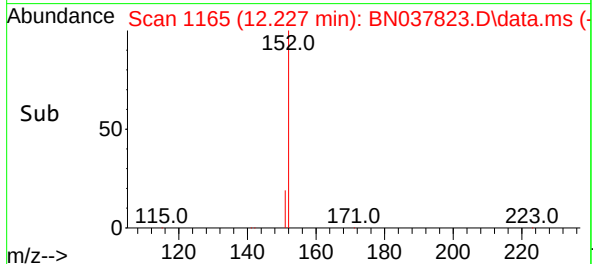
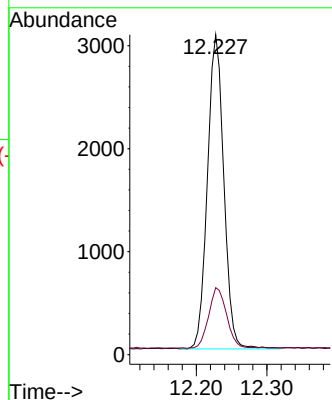
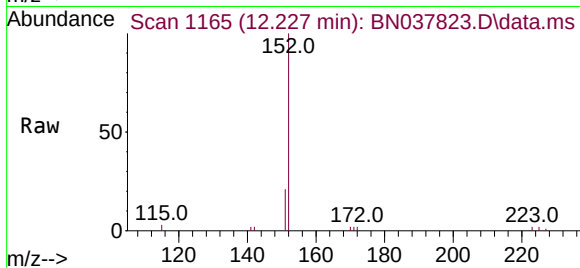




#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

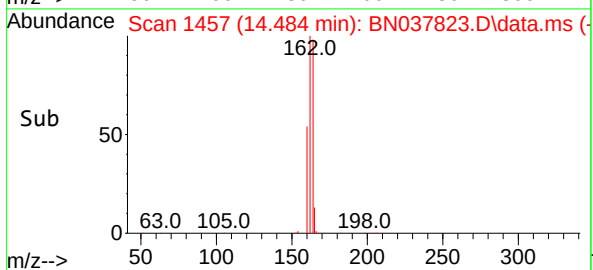
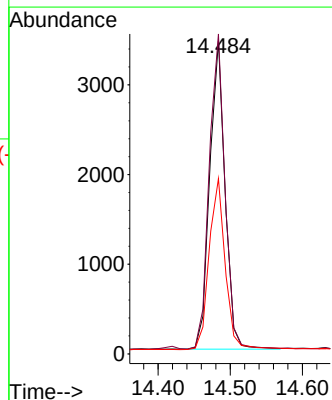
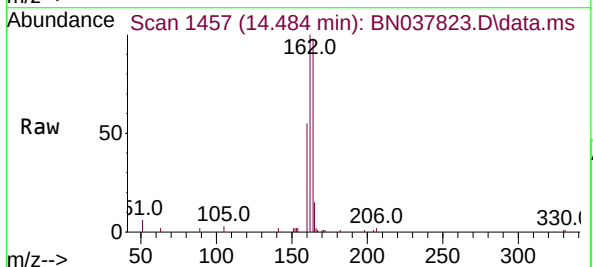
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

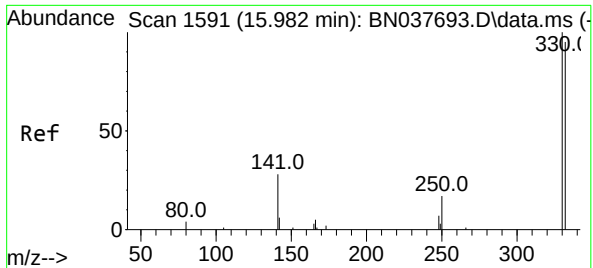
Tgt Ion:152 Resp: 4921
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

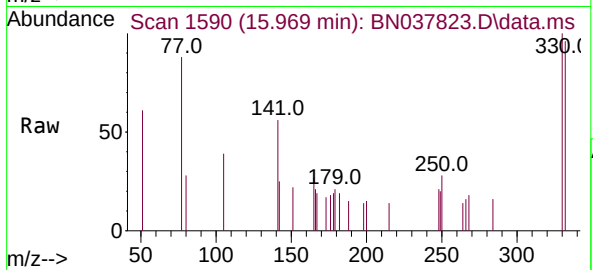
Tgt Ion:164 Resp: 5080
Ion Ratio Lower Upper
164 100
162 102.2 83.1 124.7
160 56.0 44.3 66.5



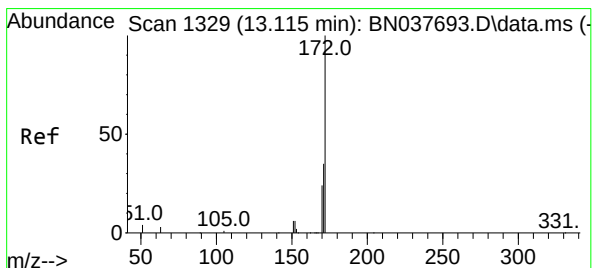
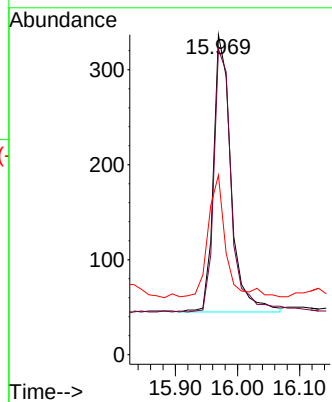
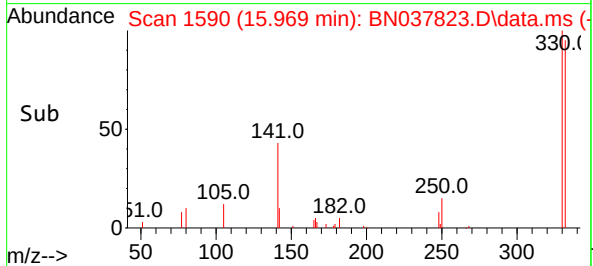


#14
2,4,6-Tribromophenol
Concen: 0.435 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

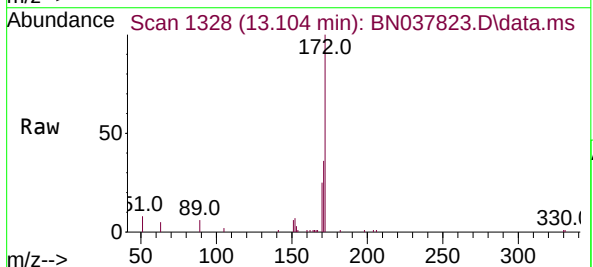
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912



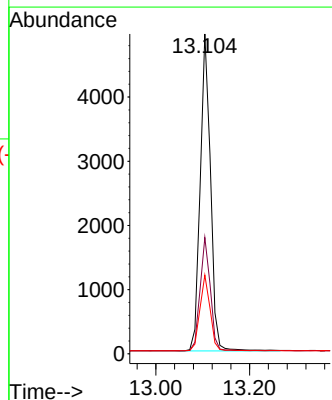
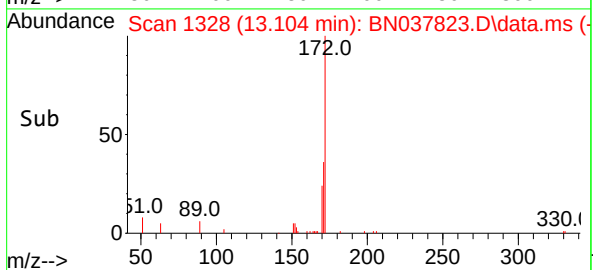
Tgt Ion:330 Resp: 576
Ion Ratio Lower Upper
330 100
332 96.7 75.3 112.9
141 44.1 35.0 52.4

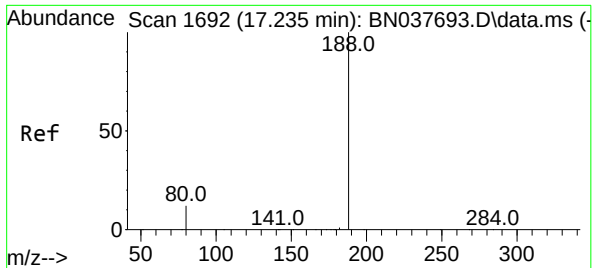


#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 13.104 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24



Tgt Ion:172 Resp: 7504
Ion Ratio Lower Upper
172 100
171 36.4 28.6 43.0
170 24.6 19.8 29.8

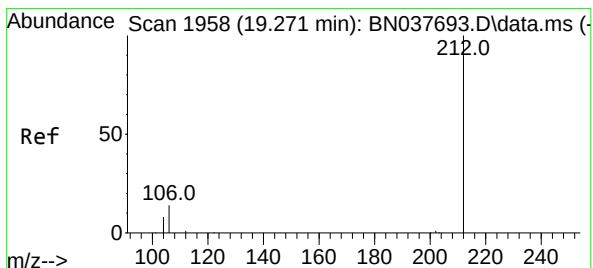
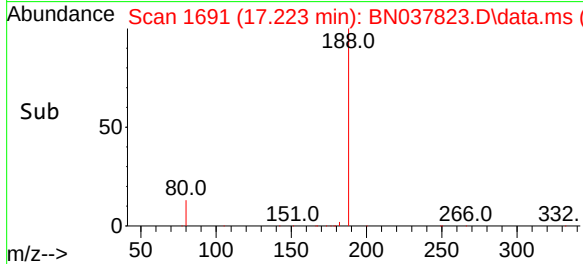
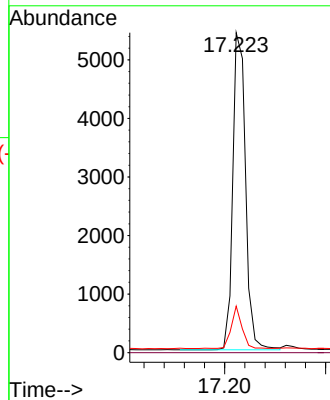
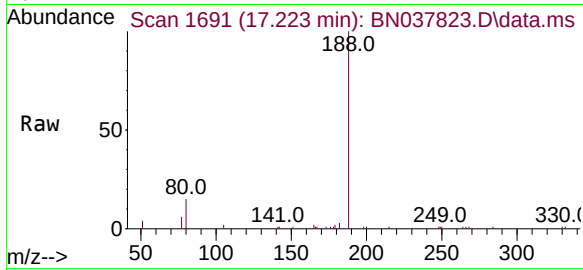




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1692
Delta R.T. -0.013 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

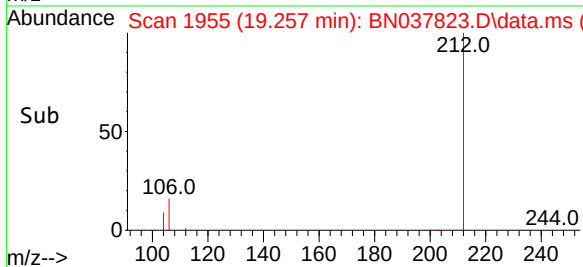
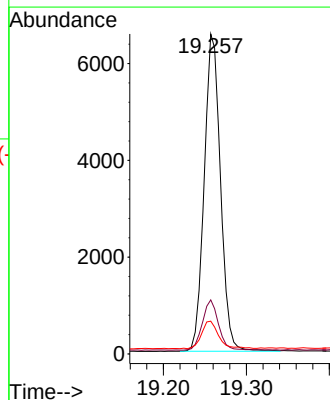
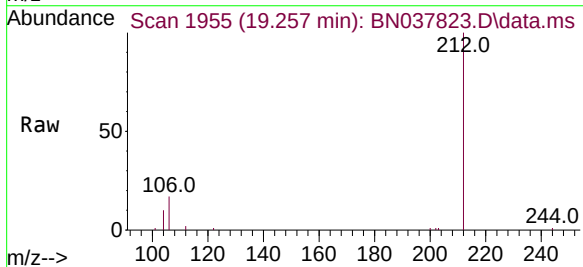
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

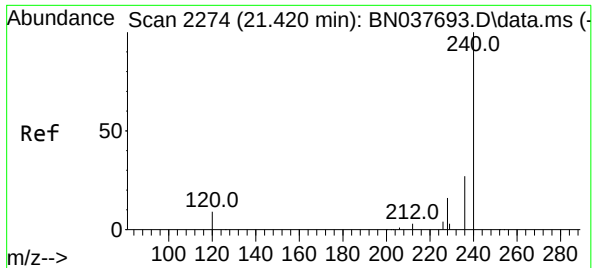
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	10.6	15.8



#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	9.2	6.9	10.3

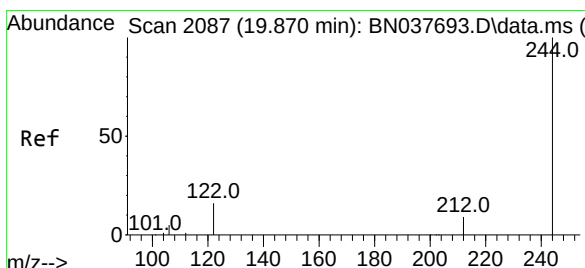
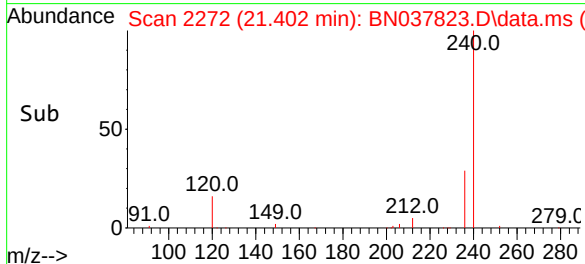
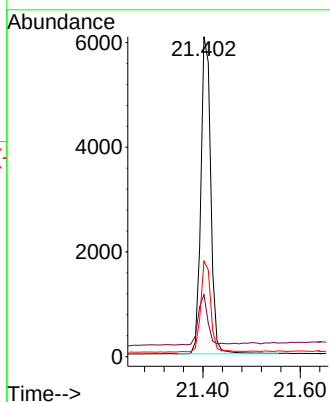
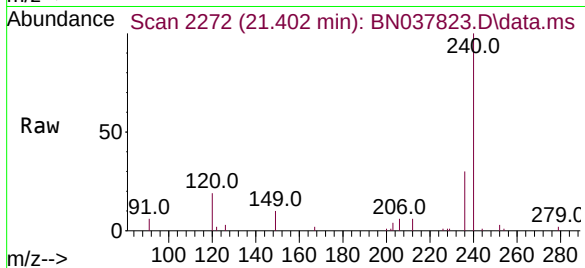




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

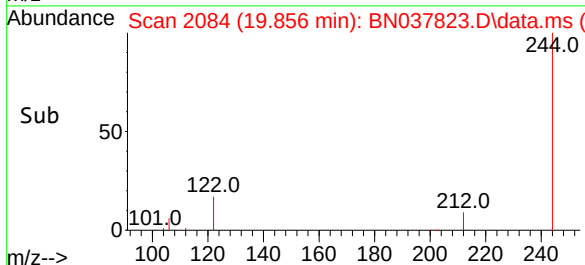
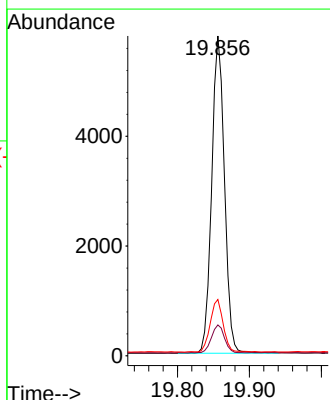
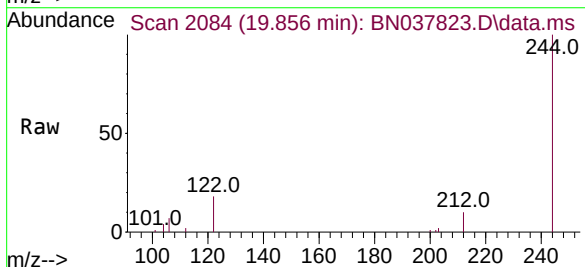
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

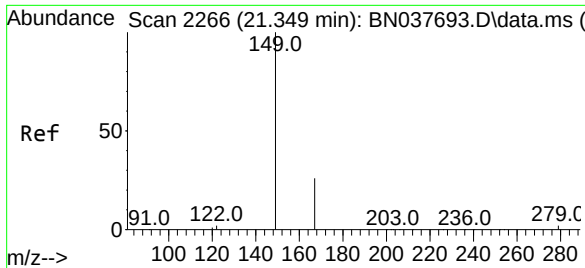
Tgt Ion:240 Resp: 8588
Ion Ratio Lower Upper
240 100
120 19.4 9.2 13.8#
236 29.8 22.6 33.8



#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:244 Resp: 7135
Ion Ratio Lower Upper
244 100
212 9.7 7.5 11.3
122 17.6 13.2 19.8

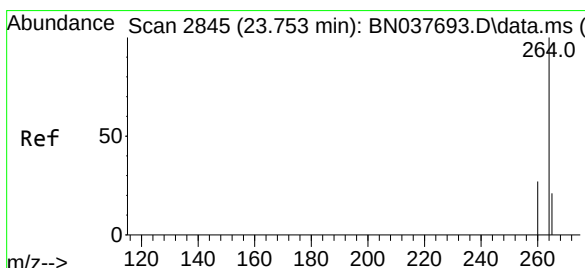
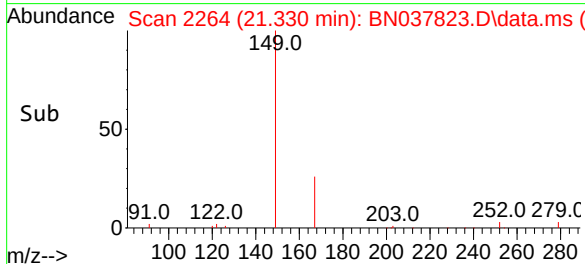
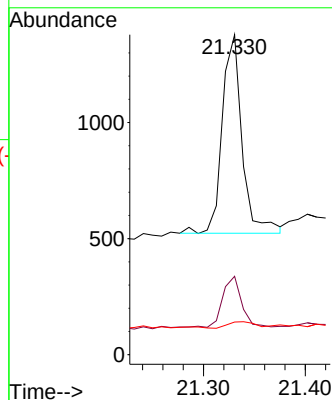
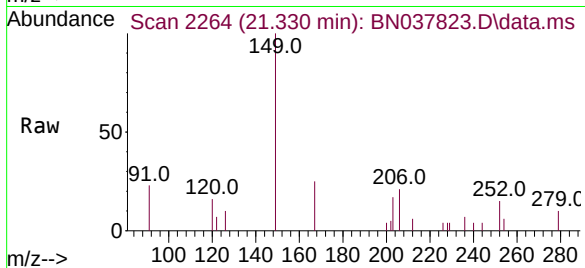




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.132 ng
RT: 21.330 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

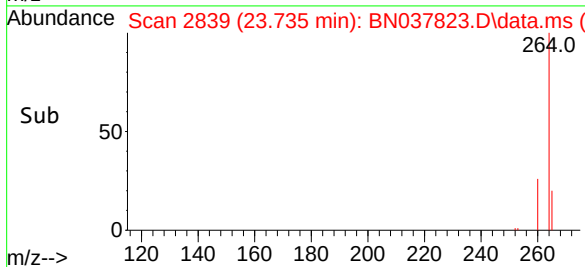
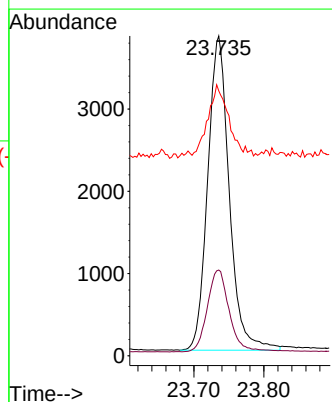
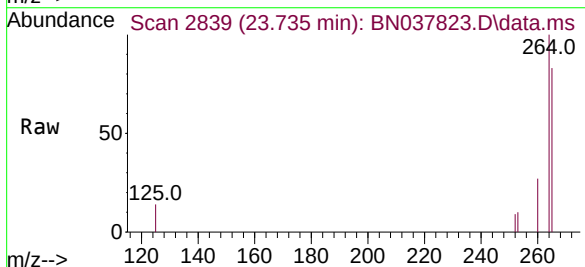
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912

Tgt Ion:149 Resp: 1168
Ion Ratio Lower Upper
149 100
167 23.9 20.8 31.2
279 4.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037823.D
Acq: 19 Sep 2025 20:24

Tgt Ion:264 Resp: 8162
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 82.8 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912DL		SDG No.:	Q3097
Lab Sample ID:	Q3097-25DL		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
BN037852.D	2	09/16/25 09:39	09/22/25 12:08	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.80	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6180		7.825			
1146-65-2	Naphthalene-d8	16300		10.626			
15067-26-2	Acenaphthene-d10	6730		14.484			
1517-22-2	Phenanthrene-d10	12100		17.223			
1719-03-5	Chrysene-d12	10400		21.402			
1520-96-3	Perylene-d12	9990		23.736			

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\BN092225\
Data File : BN037852.D
Acq On : 22 Sep 2025 12:08
Operator : RC/JU
Sample : Q3097-25DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Quant Time: Sep 22 12:41:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

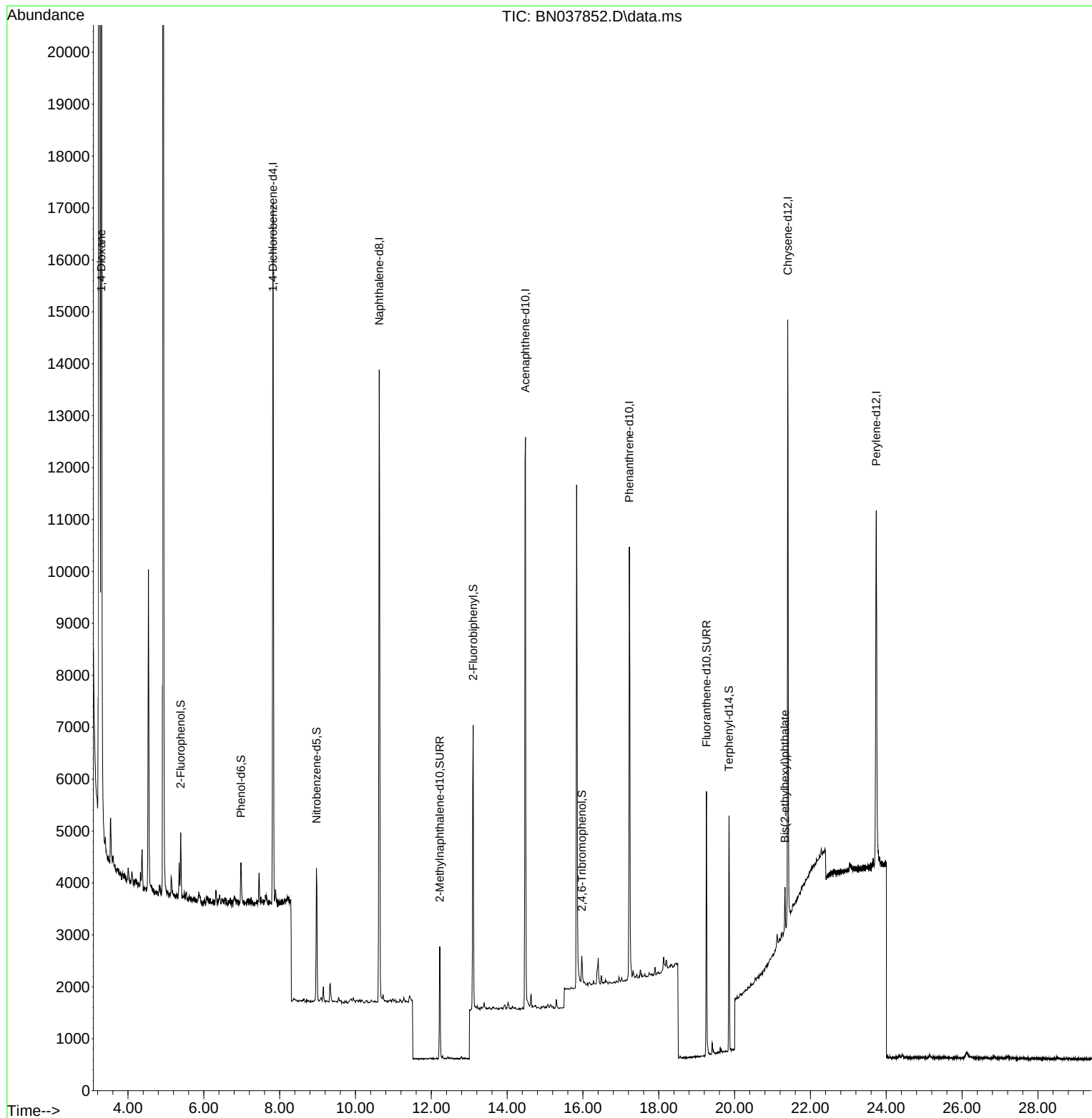
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6180	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16337	0.400	ng	-0.02
13) Acenaphthene-d10	14.484	164	6729	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	12081	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	10388	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	9986	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	936	0.066	ng	0.00
5) Phenol-d6	6.980	99	748	0.041	ng	0.00
8) Nitrobenzene-d5	8.971	82	2084	0.174	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	2999	0.139	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	387	0.221	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	4709	0.167	ng	-0.01
27) Fluoranthene-d10	19.257	212	5524	0.182	ng	-0.01
31) Terphenyl-d14	19.852	244	4298	0.204	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.297	88	21770	3.382	ng	96
34) Bis(2-ethylhexyl)phtha...	21.331	149	839	0.078	ng	# 92

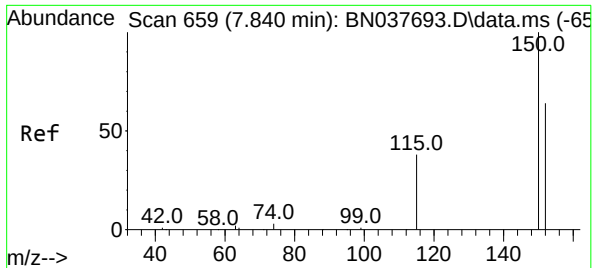
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037852.D
Acq On : 22 Sep 2025 12:08
Operator : RC/JU
Sample : Q3097-25DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

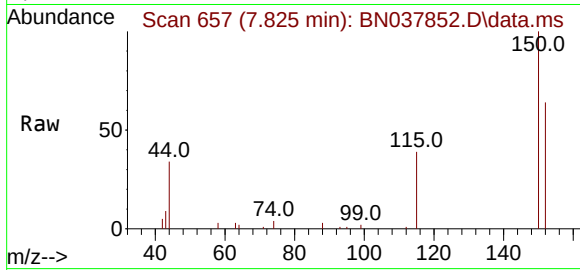
Quant Time: Sep 22 12:41:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



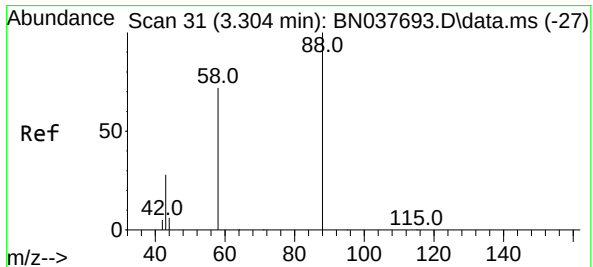
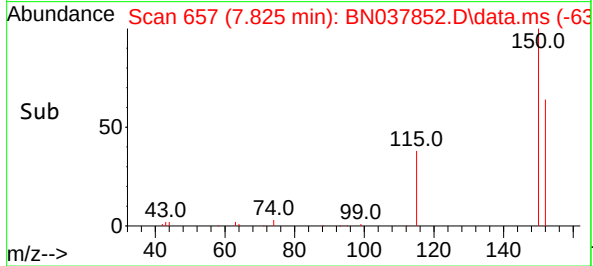
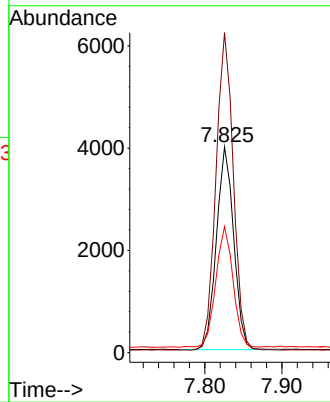


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

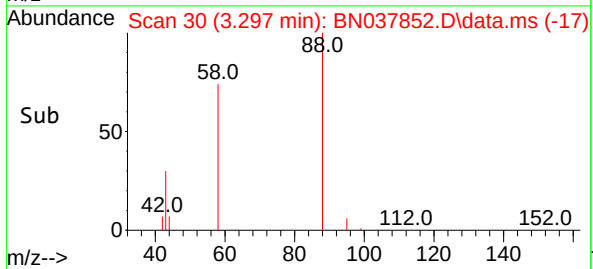
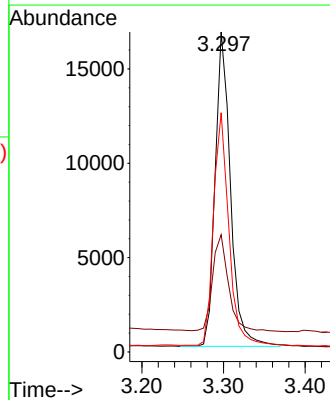
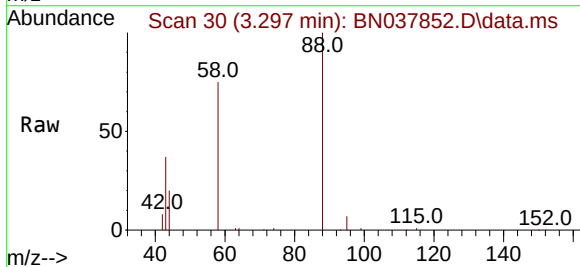


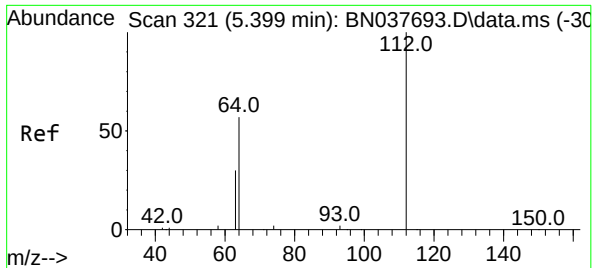
Tgt Ion:152 Resp: 6180
Ion Ratio Lower Upper
152 100
150 155.5 124.5 186.7
115 61.3 49.2 73.8



#2
1,4-Dioxane
Concen: 3.382 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion: 88 Resp: 21770
Ion Ratio Lower Upper
88 100
43 31.9 26.8 40.2
58 73.6 61.9 92.9

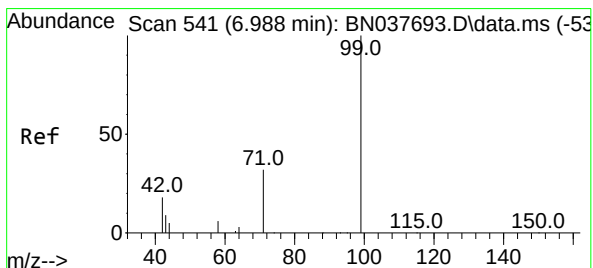
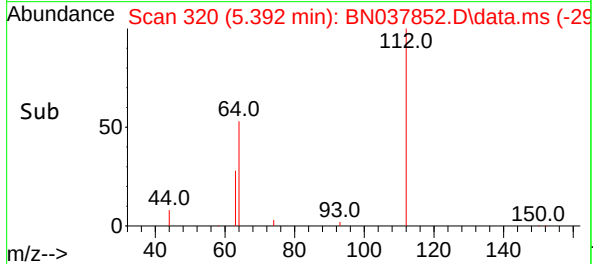
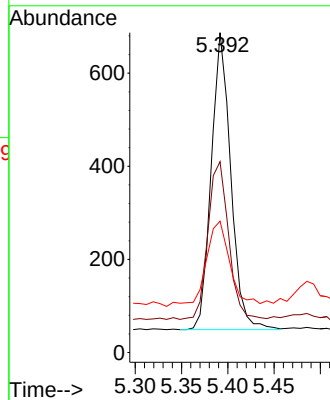
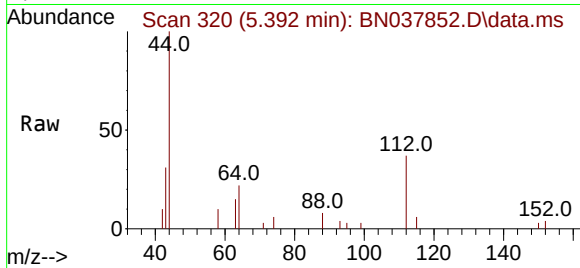




#4
2-Fluorophenol
Concen: 0.066 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

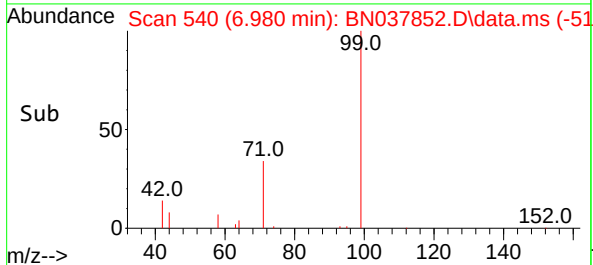
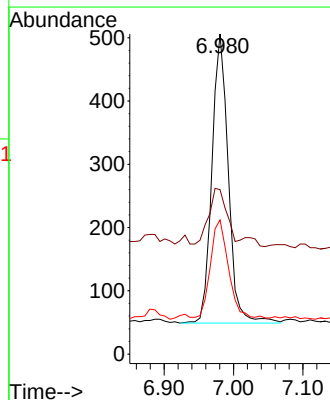
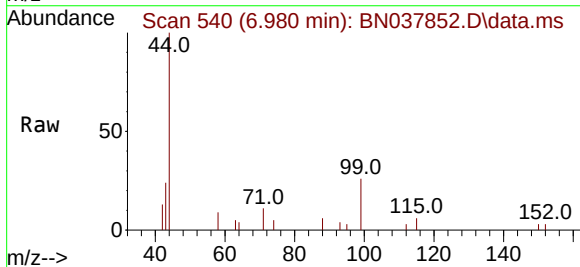
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

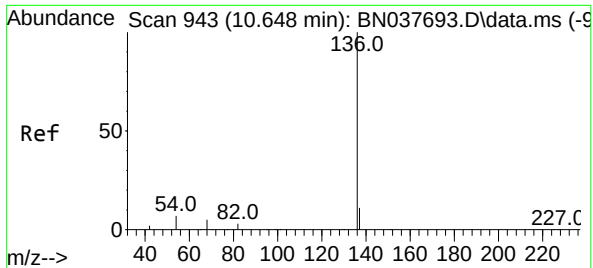
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	44.9	67.3
63	35.3	24.7	37.1



#5
Phenol-d6
Concen: 0.041 ng
RT: 6.980 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.9	16.6	24.8
71	36.9	26.7	40.1

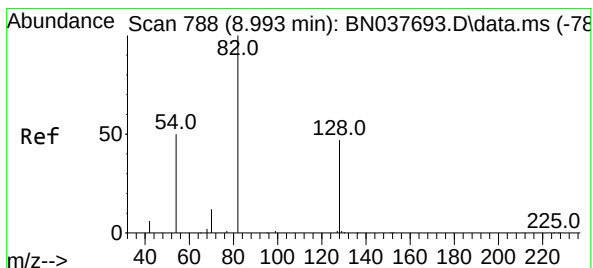
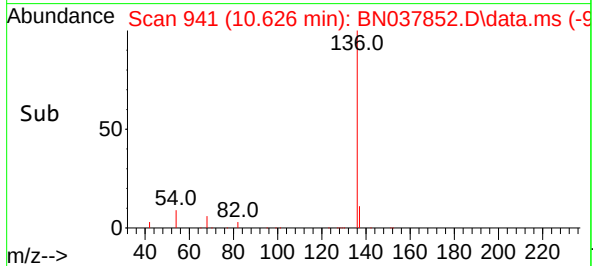
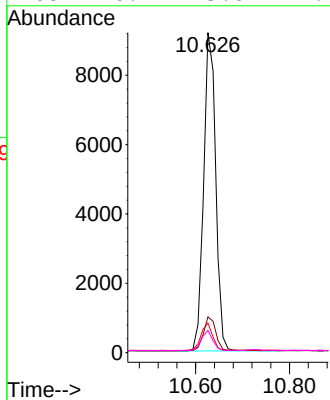
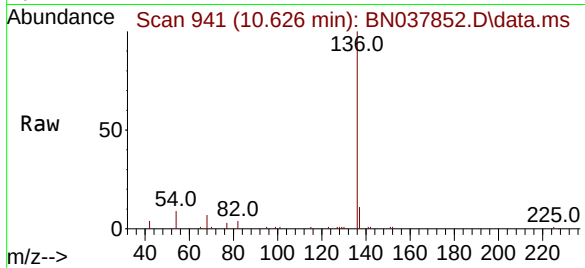




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

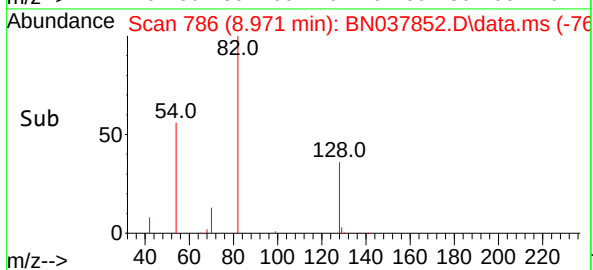
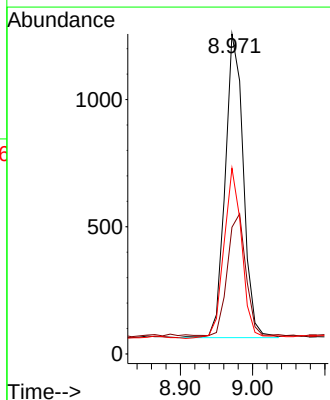
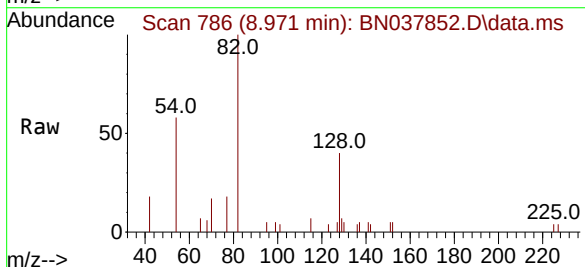
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

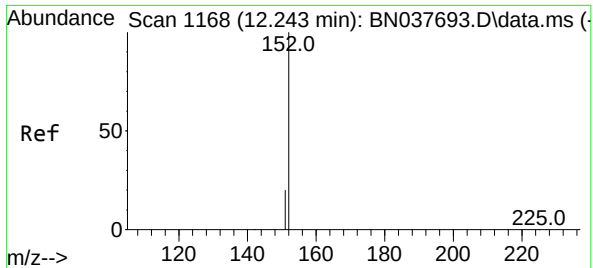
Tgt Ion:	136	Resp:	16337
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	9.2	6.3	9.5
68	6.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:	82	Resp:	2084
Ion	Ratio	Lower	Upper
82	100		
128	39.6	38.3	57.5
54	58.0	41.4	62.2

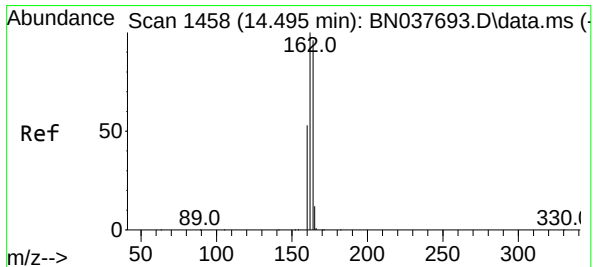
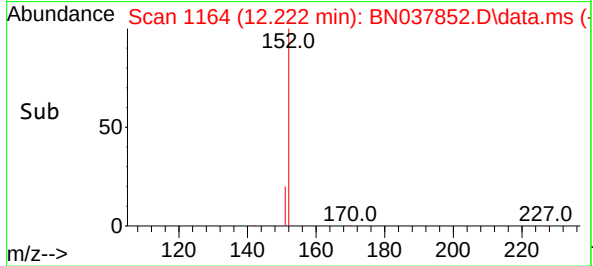
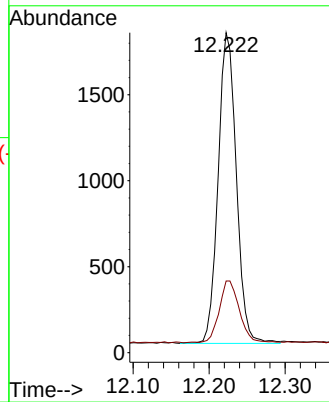
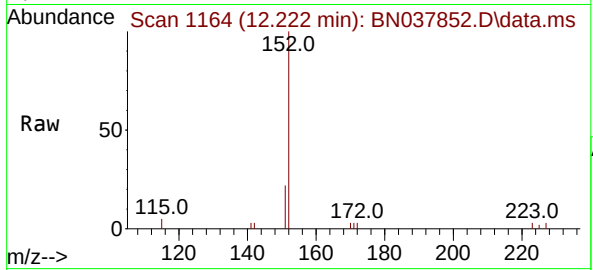




#11
2-Methylnaphthalene-d10
Concen: 0.139 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

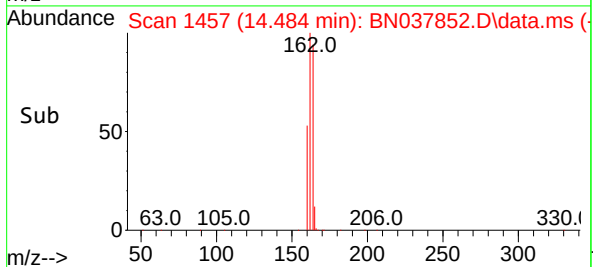
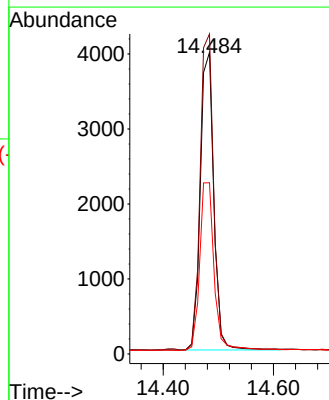
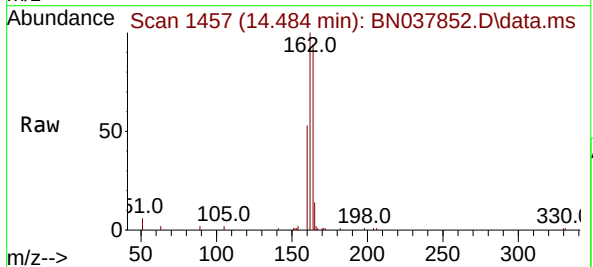
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

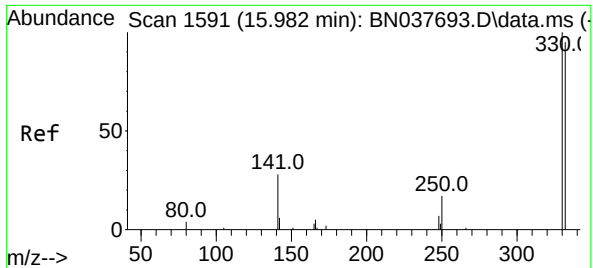
Tgt Ion:152 Resp: 2999
Ion Ratio Lower Upper
152 100
151 22.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:164 Resp: 6729
Ion Ratio Lower Upper
164 100
162 106.1 83.1 124.7
160 56.7 44.3 66.5



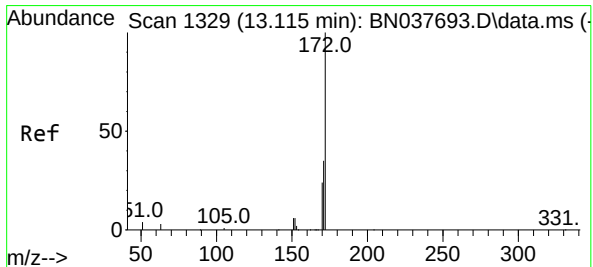
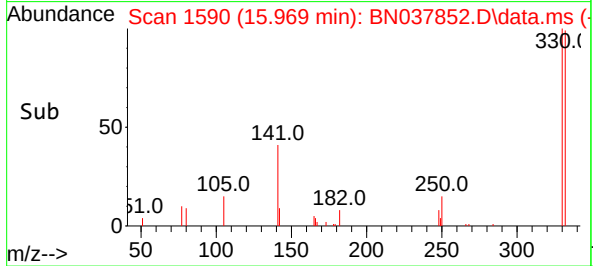
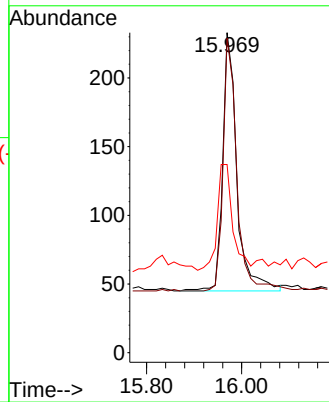
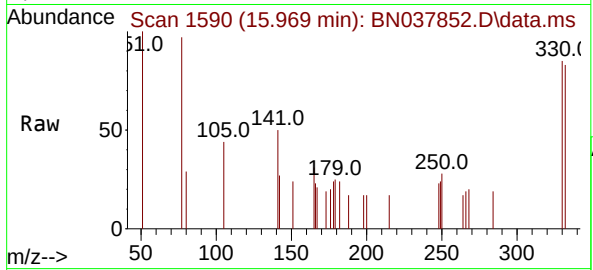


#14
2,4,6-Tribromophenol
Concen: 0.221 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion	330	Resp	387
Ion Ratio	100		
Lower	75.3		
Upper	112.9		

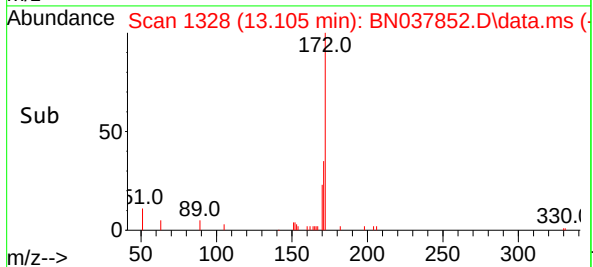
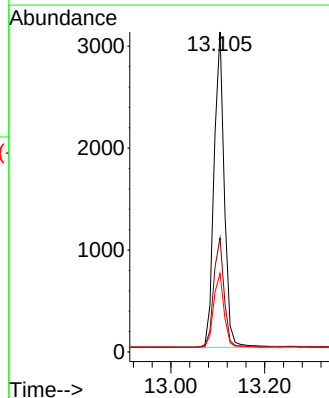
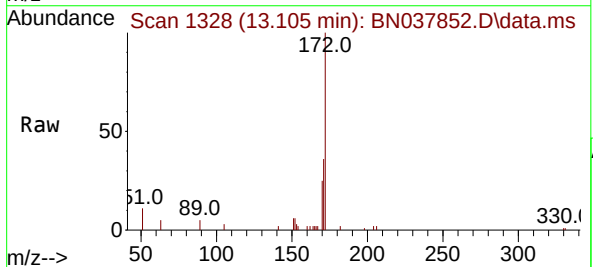
Ion	332	141
Ratio	95.1	44.4
Lower	75.3	35.0
Upper	112.9	52.4

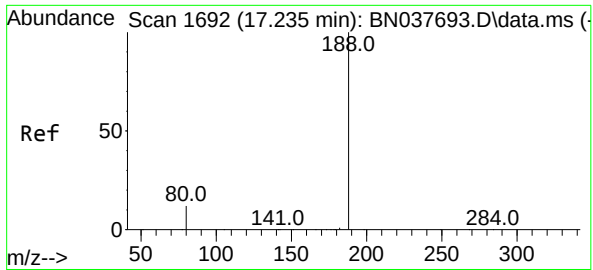


#15
2-Fluorobiphenyl
Concen: 0.167 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion	172	Resp	4709
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	28.6		
Upper	43.0		

Ion	171	170
Ratio <td>35.6</td> <td>24.6</td>	35.6	24.6
Lower <td>28.6</td> <td>19.8</td>	28.6	19.8
Upper <td>43.0</td> <td>29.8</td>	43.0	29.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037852.D

Acq: 22 Sep 2025 12:08

Instrument :

BNA_N

ClientSampleId :

RE134D3-20250912DL

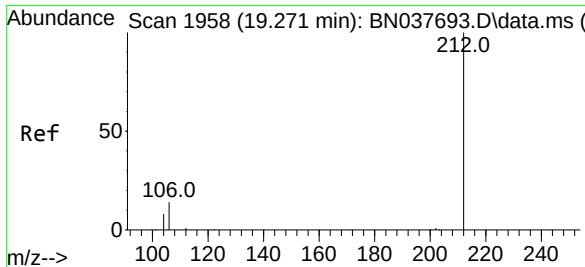
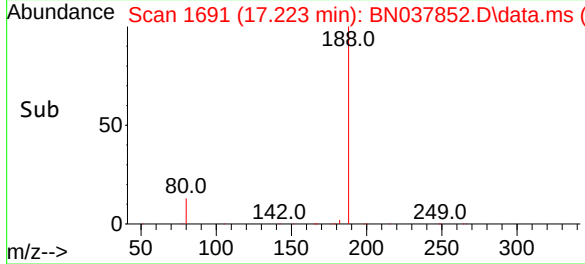
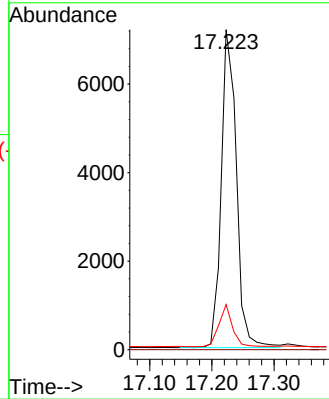
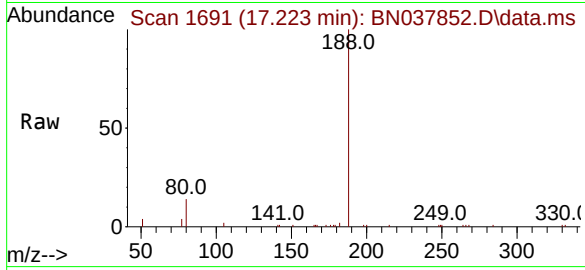
Tgt Ion:188 Resp: 12081

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 10.6 15.8



#27

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037852.D

Acq: 22 Sep 2025 12:08

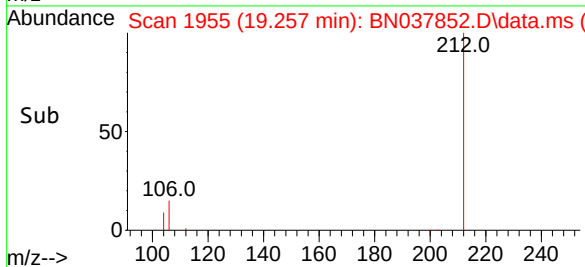
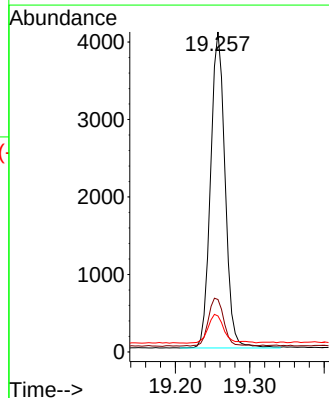
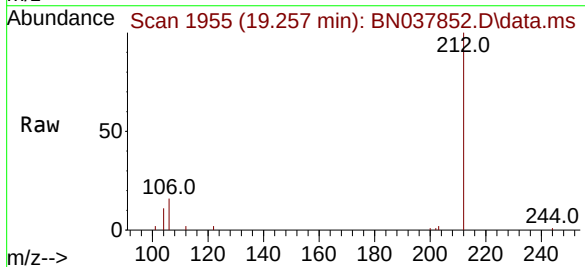
Tgt Ion:212 Resp: 5524

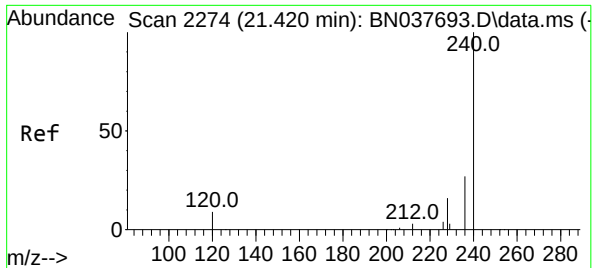
Ion Ratio Lower Upper

212 100

106 16.3 12.2 18.2

104 9.7 6.9 10.3

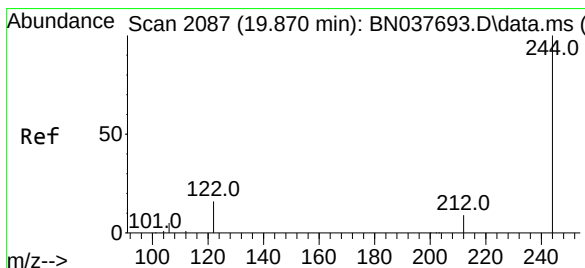
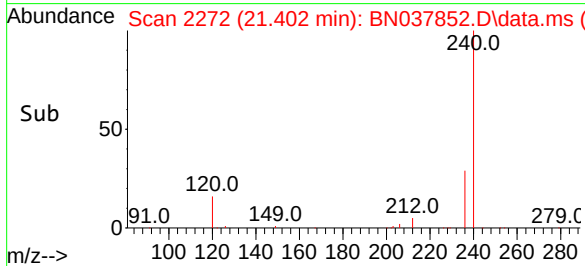
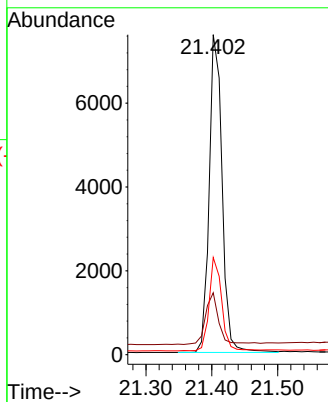
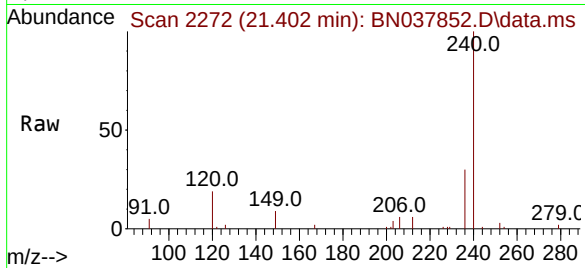




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

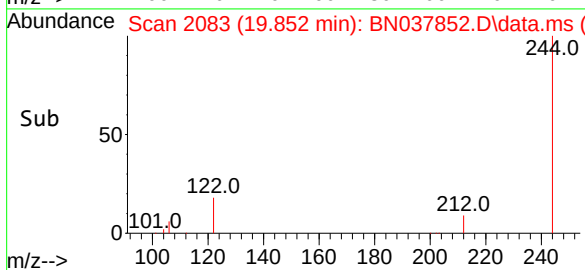
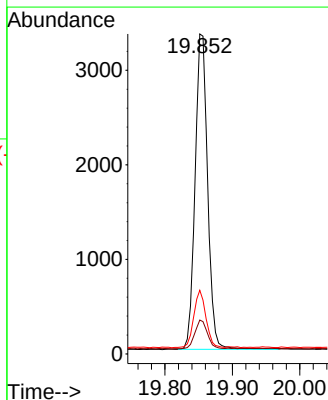
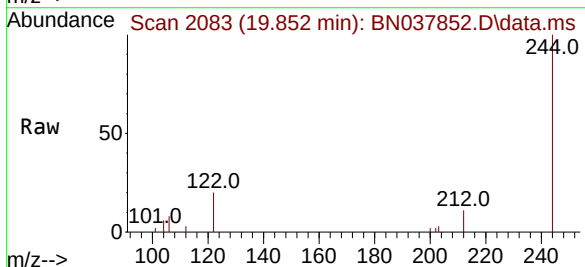
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

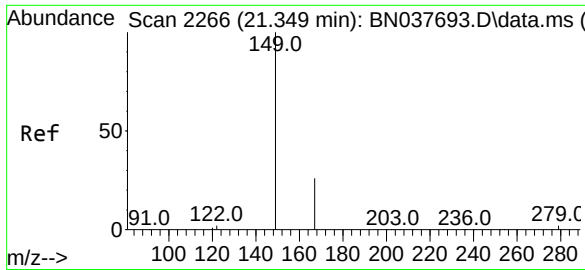
Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.4	9.2	13.8#
236	30.4	22.6	33.8



#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.019 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	7.5	11.3
122	19.9	13.2	19.8#

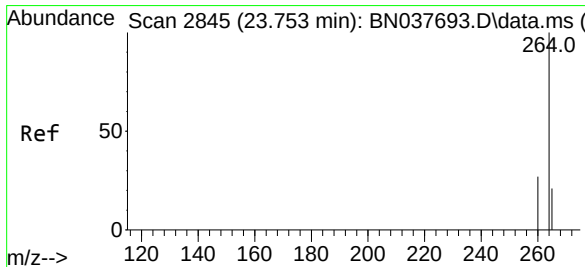
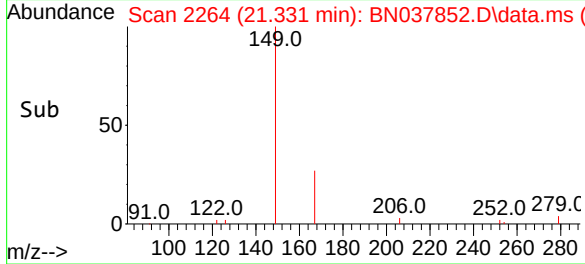
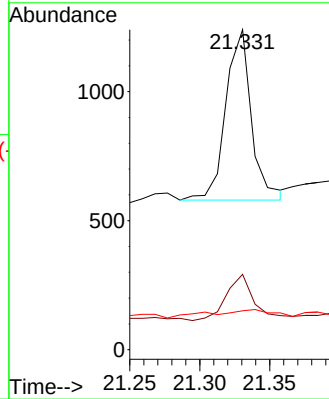
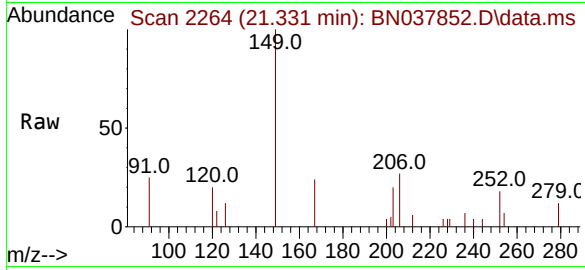




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.078 ng
RT: 21.331 min Scan# 2131
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

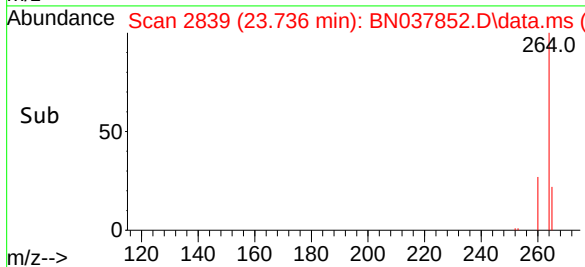
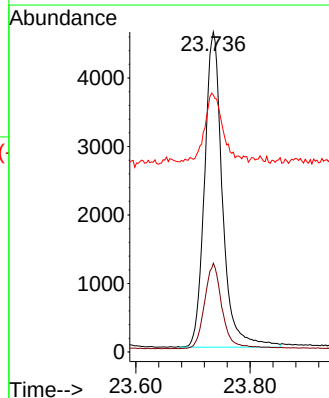
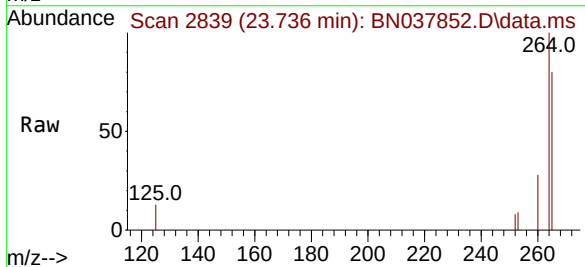
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:149 Resp: 839
Ion Ratio Lower Upper
149 100
167 30.3 20.8 31.2
279 6.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037852.D
Acq: 22 Sep 2025 12:08

Tgt Ion:264 Resp: 9986
Ion Ratio Lower Upper
264 100
260 27.7 21.8 32.8
265 80.3 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	EB01-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-26	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
BN037824.D	1	09/16/25 09:39	09/19/25 21:00	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4520		7.833			
1146-65-2	Naphthalene-d8	12000		10.637			
15067-26-2	Acenaphthene-d10	5000		14.484			
1517-22-2	Phenanthrene-d10	8480		17.223			
1719-03-5	Chrysene-d12	7500		21.402			
1520-96-3	Perylene-d12	7190		23.736			

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\BN091925\
Data File : BN037824.D
Acq On : 19 Sep 2025 21:00
Operator : RC/JU
Sample : Q3097-26
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

Quant Time: Sep 19 23:56:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

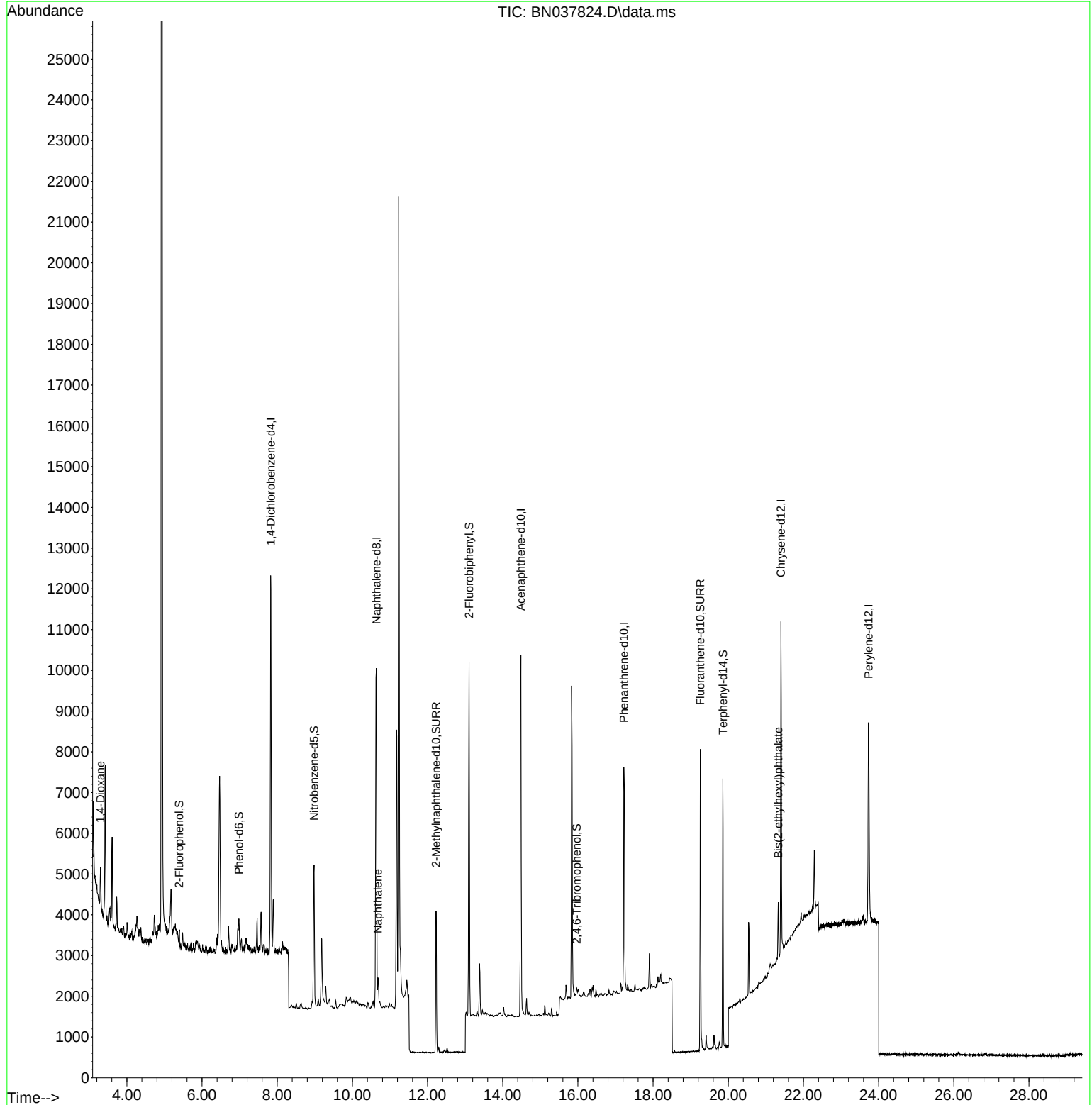
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4515	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12030	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5004	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	8479	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	7497	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	7192	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	266	0.026	ng	0.00
5) Phenol-d6	6.981	99	627	0.047	ng	0.00
8) Nitrobenzene-d5	8.982	82	2876	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	4628	0.290	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	109	0.084	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	7099	0.339	ng	-0.01
27) Fluoranthene-d10	19.257	212	7876	0.370	ng	-0.01
31) Terphenyl-d14	19.856	244	5974	0.393	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	501	0.107	ng	# 34
9) Naphthalene	10.680	128	905	0.028	ng	# 80
34) Bis(2-ethylhexyl)phtha...	21.331	149	1356	0.175	ng	# 99

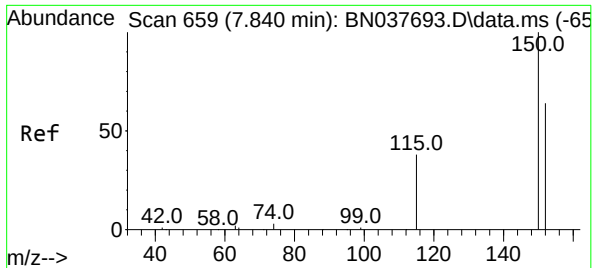
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037824.D
Acq On : 19 Sep 2025 21:00
Operator : RC/JU
Sample : Q3097-26
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

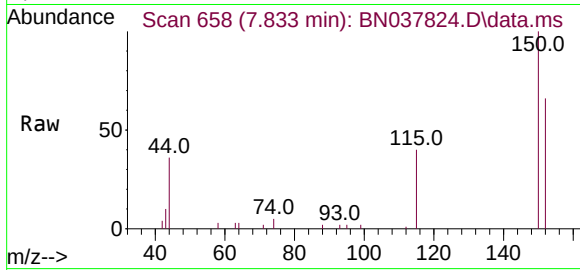
Quant Time: Sep 19 23:56:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



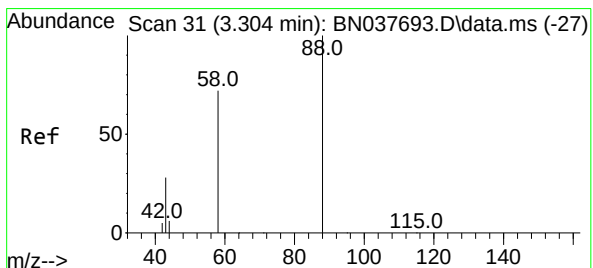
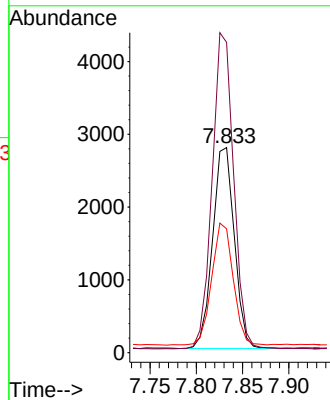
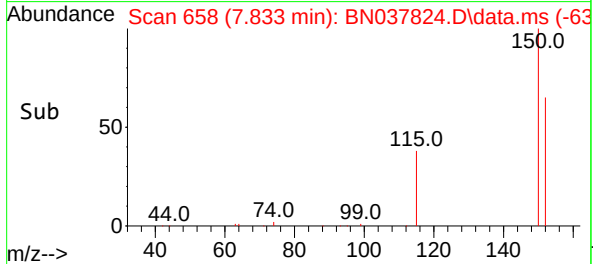


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Instrument :
BNA_N
ClientSampleId :
EB01-20250912

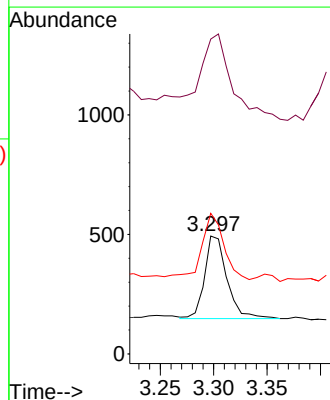
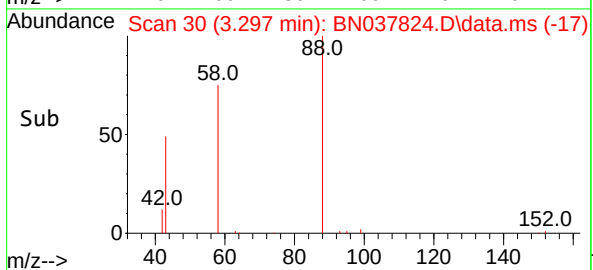
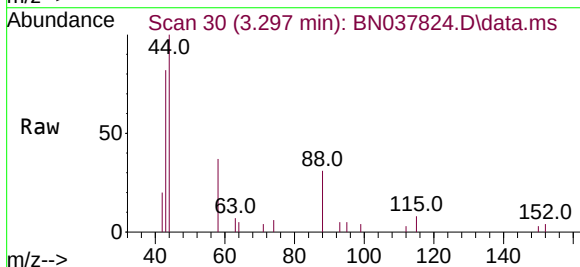


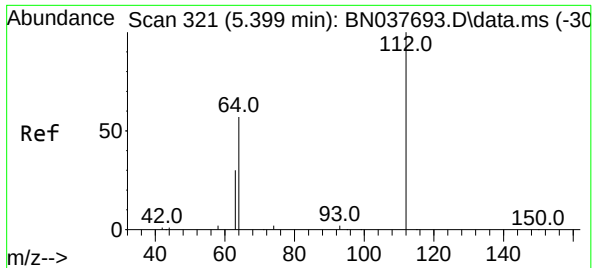
Tgt Ion: 152 Resp: 4515
Ion Ratio Lower Upper
152 100
150 151.3 124.5 186.7
115 60.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.107 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 88 Resp: 501
Ion Ratio Lower Upper
88 100
43 152.1 26.8 40.2#
58 81.4 61.9 92.9

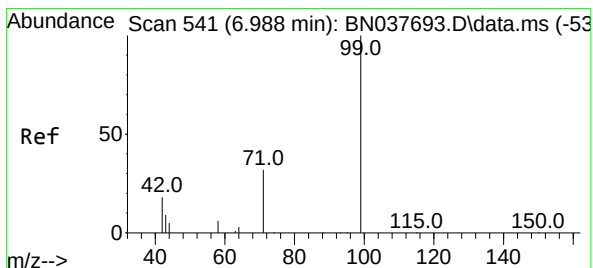
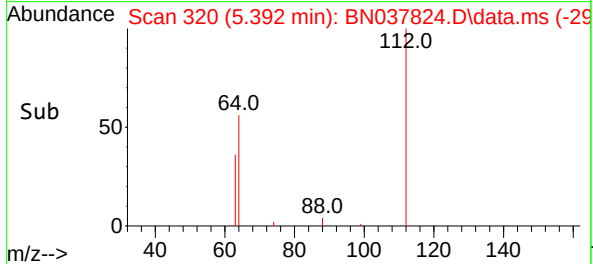
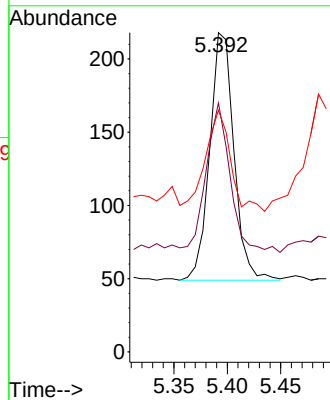
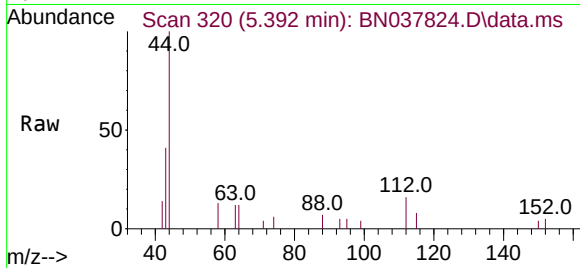




#4
2-Fluorophenol
Concen: 0.026 ng
RT: 5.392 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

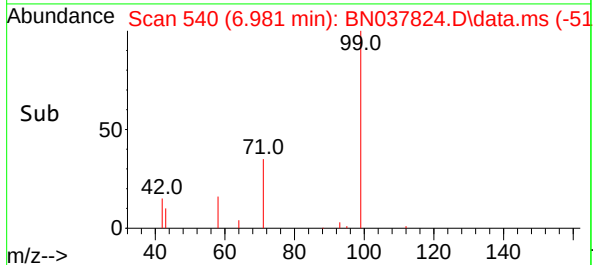
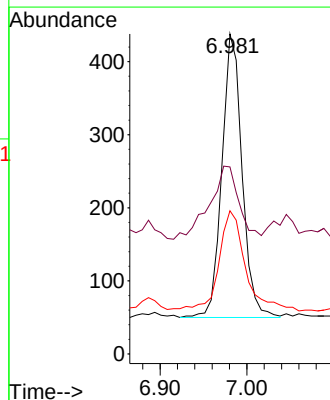
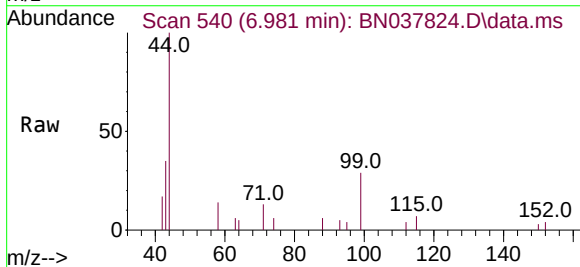
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

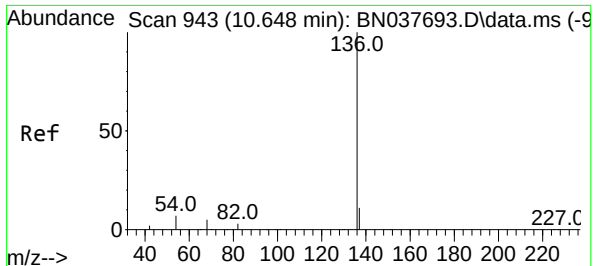
Tgt Ion:112 Resp: 266
Ion Ratio Lower Upper
112 100
64 62.0 44.9 67.3
63 42.5 24.7 37.1#



#5
Phenol-d6
Concen: 0.047 ng
RT: 6.981 min Scan# 540
Delta R.T. -0.007 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 99 Resp: 627
Ion Ratio Lower Upper
99 100
42 37.6 16.6 24.8#
71 46.3 26.7 40.1#

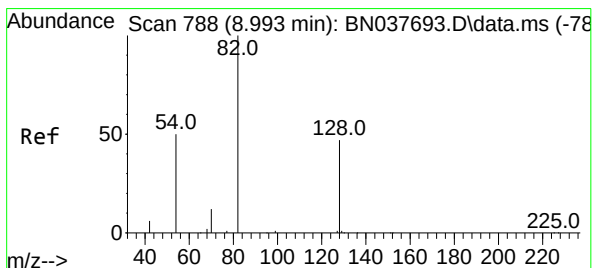
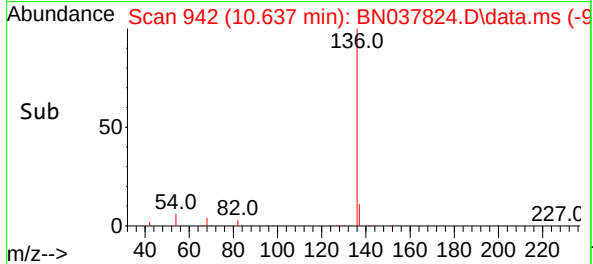
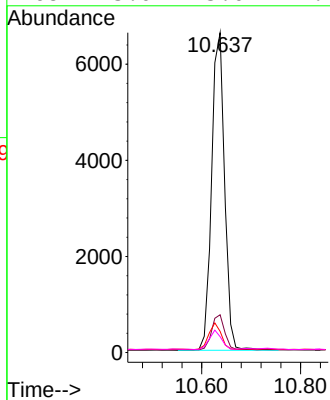
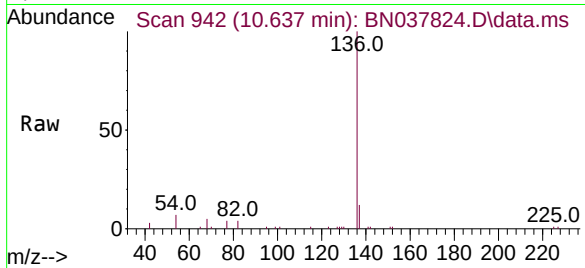




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

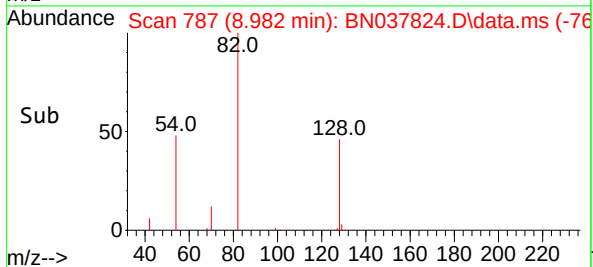
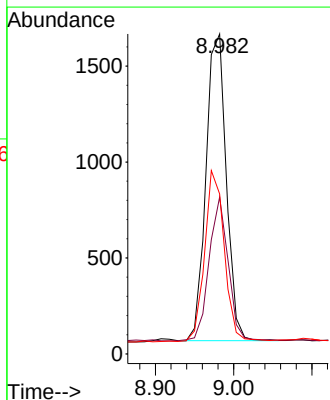
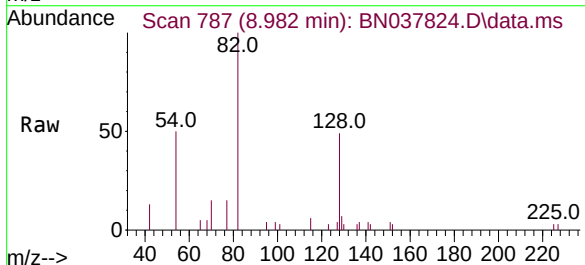
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

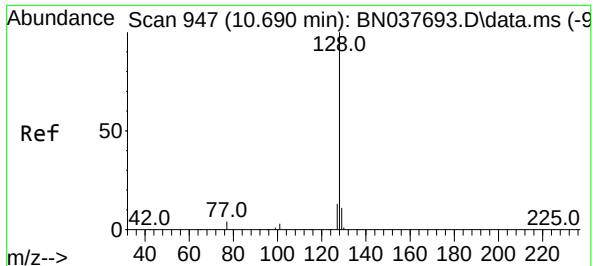
Tgt Ion:136	Resp:	12030
Ion Ratio	Lower	Upper
136	100	
137	11.8	9.1 13.7
54	6.6	6.3 9.5
68	5.0	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion: 82	Resp:	2876
Ion Ratio	Lower	Upper
82	100	
128	49.0	38.3 57.5
54	50.0	41.4 62.2

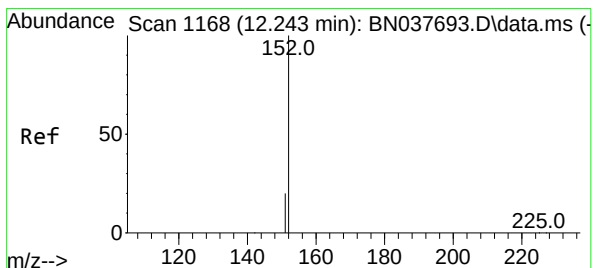
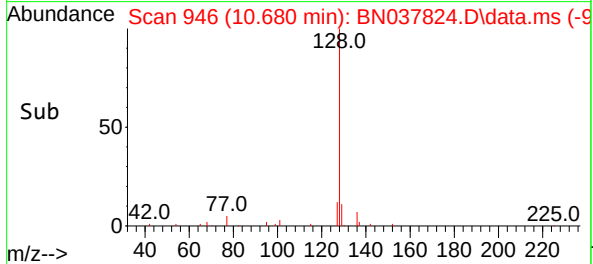
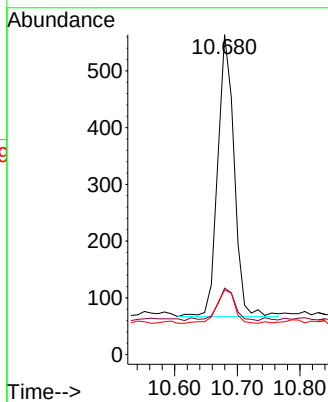
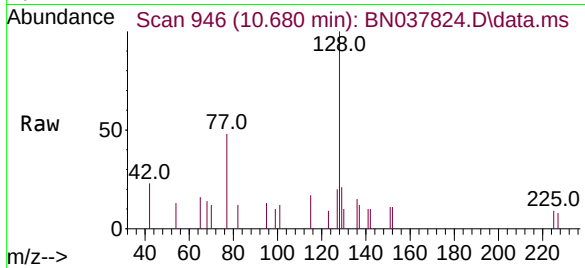




#9
Naphthalene
Concen: 0.028 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

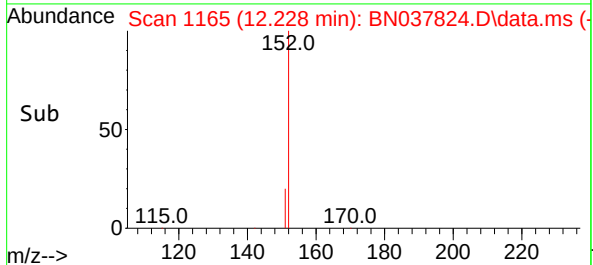
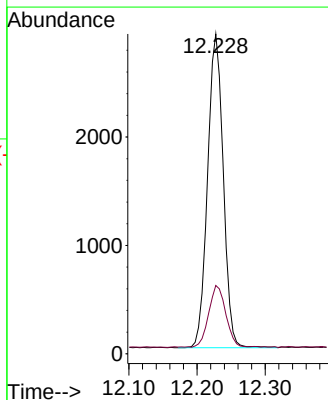
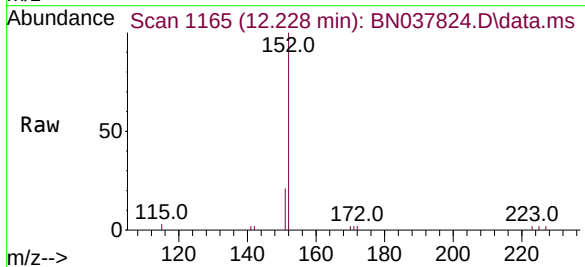
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

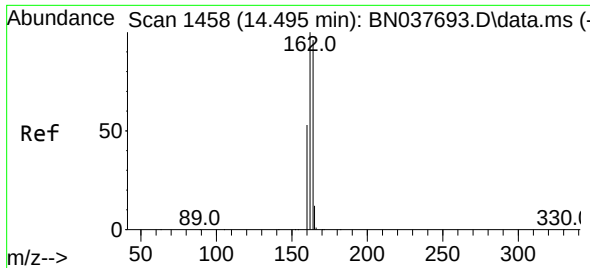
Tgt Ion	128	129	127
Resp:	905		
Ion Ratio	100	20.7	20.2
Lower		9.1	10.9
Upper		13.7#	16.3#



#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion	152	151
Resp:	4628	
Ion Ratio	100	21.2
Lower		17.0
Upper		25.6

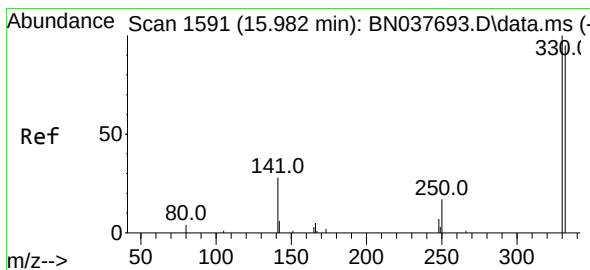
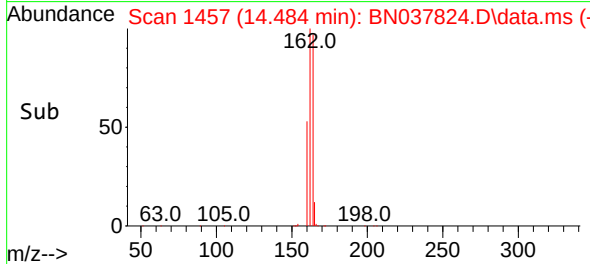
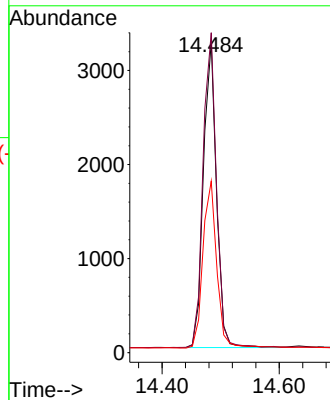
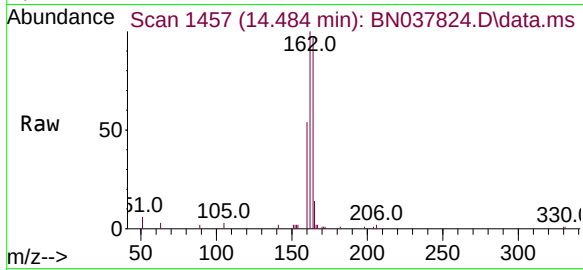




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

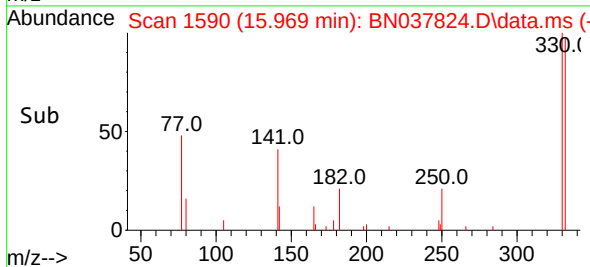
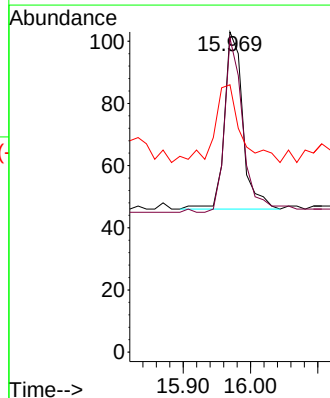
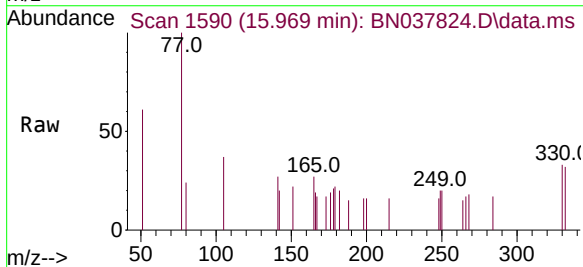
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

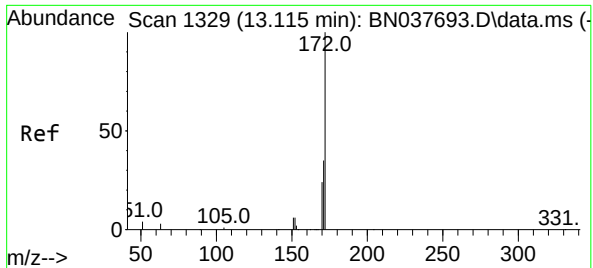
Tgt Ion	164	Resp:	5004
Ion Ratio	Lower	Upper	
164	100		
162	102.9	83.1	124.7
160	55.2	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion	330	Resp:	109
Ion Ratio	Lower	Upper	
330	100		
332	102.8	75.3	112.9
141	60.6	35.0	52.4

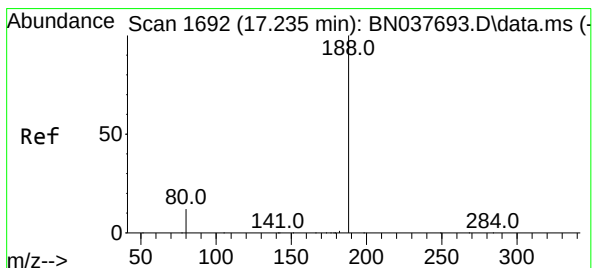
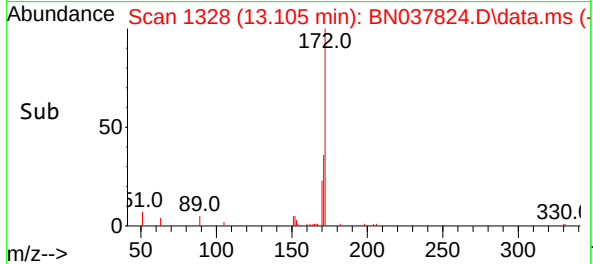
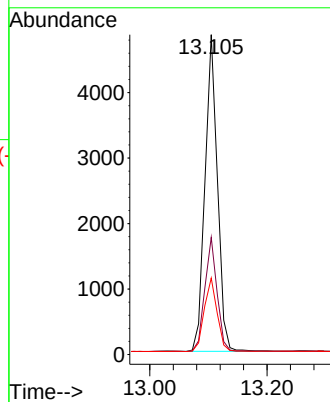
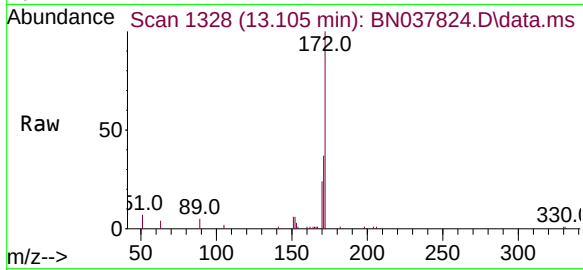




#15
2-Fluorobiphenyl
Concen: 0.339 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

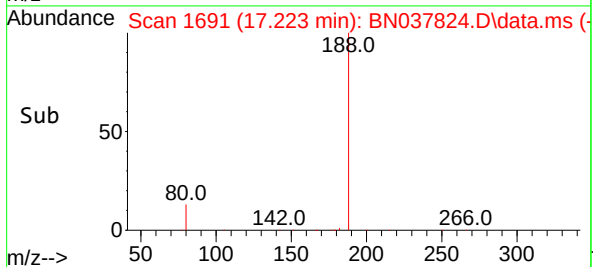
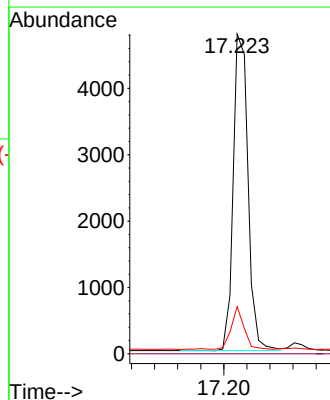
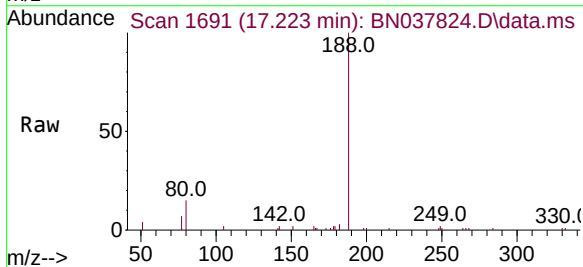
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

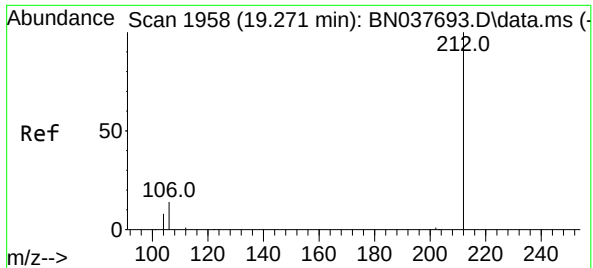
Tgt Ion:	172	Resp:	7099
Ion Ratio	Lower	Upper	
172	100		
171	36.6	28.6	43.0
170	23.9	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion:	188	Resp:	8479
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.7	10.6	15.8

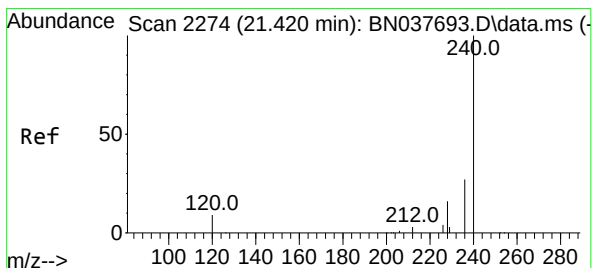
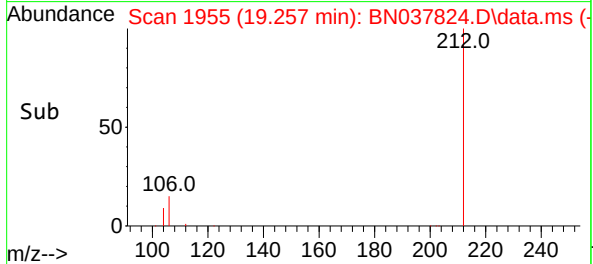
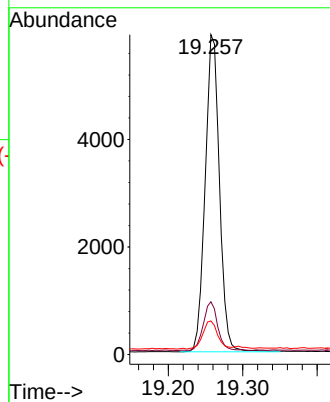
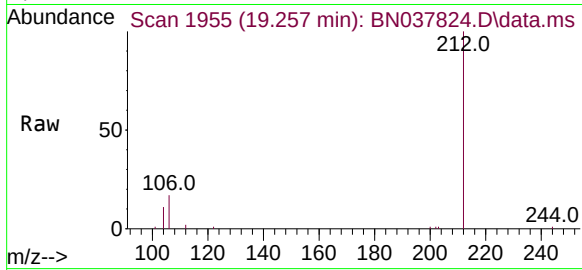




#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

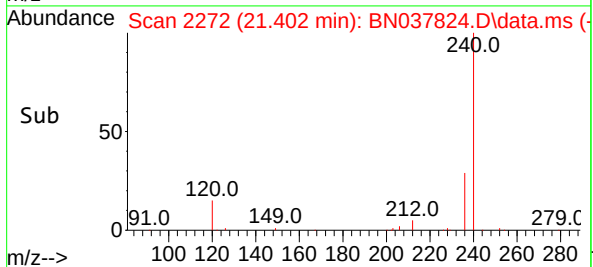
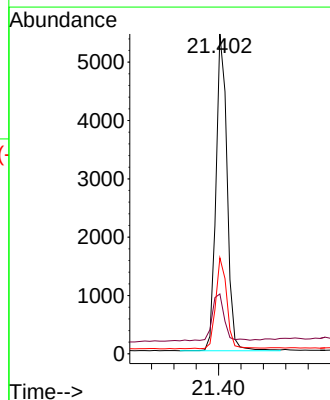
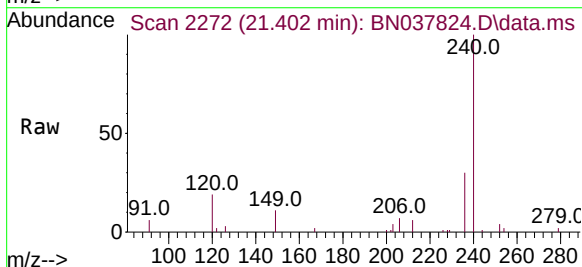
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

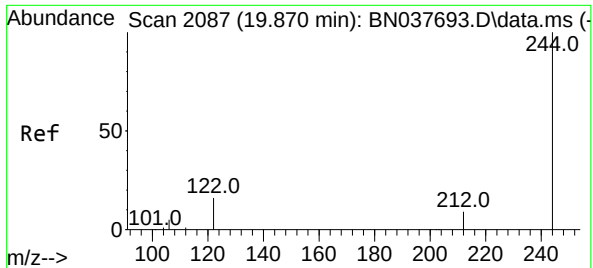
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.2	6.9	10.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.018 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.7	9.2	13.8
236	30.0	22.6	33.8

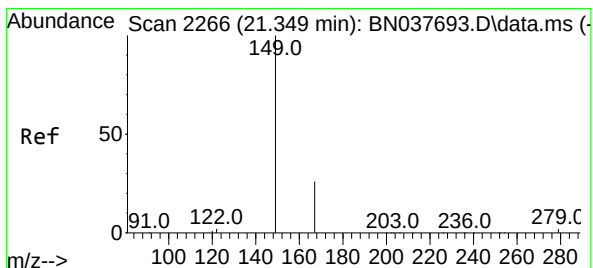
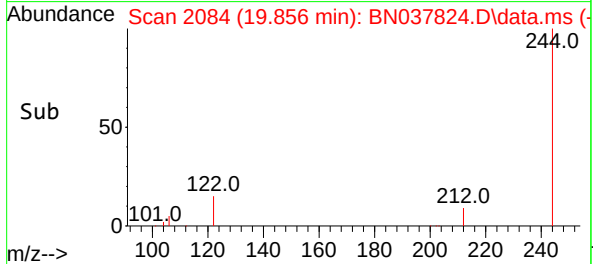
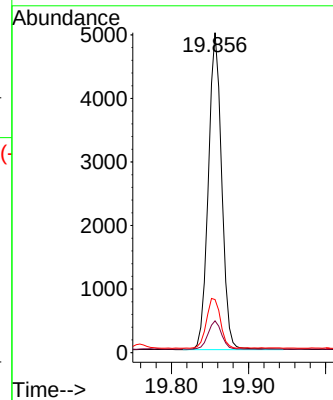
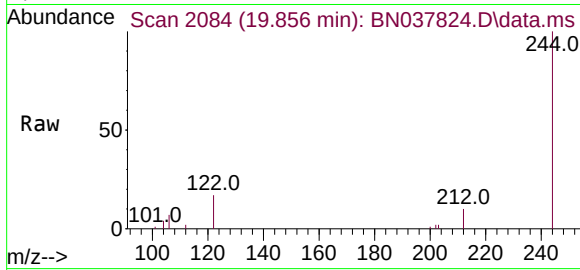




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

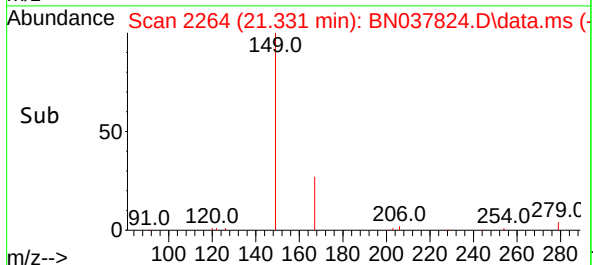
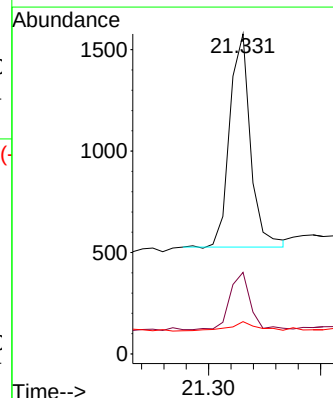
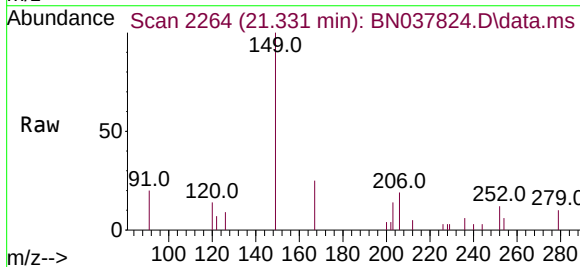
Instrument :
BNA_N
ClientSampleId :
EB01-20250912

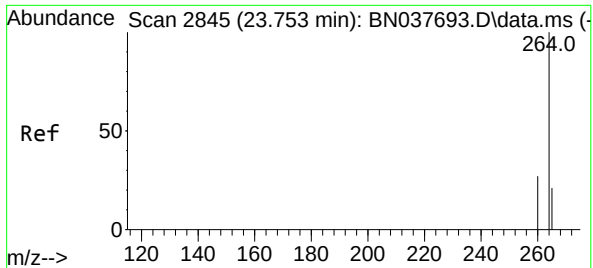
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	16.6	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.175 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037824.D
Acq: 19 Sep 2025 21:00

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.8	31.2
279	5.5	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2845

Delta R.T. -0.018 min

Lab File: BN037824.D

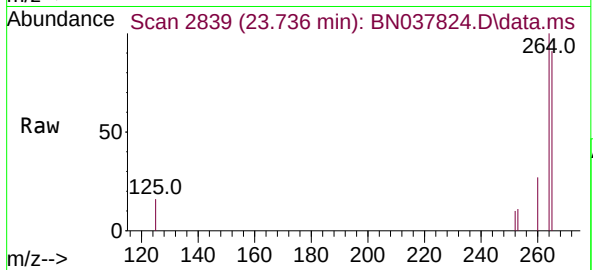
Acq: 19 Sep 2025 21:00

Instrument :

BNA_N

ClientSampleId :

EB01-20250912



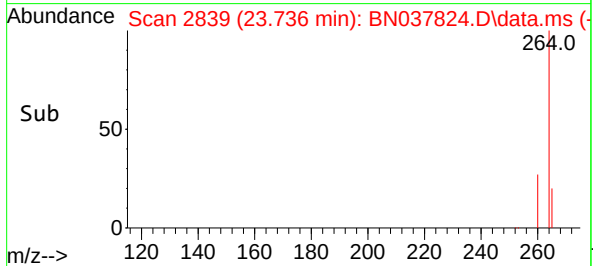
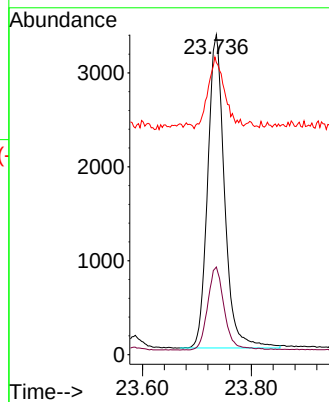
Tgt Ion:264 Resp: 7192

Ion Ratio Lower Upper

264 100

260 27.4 21.8 32.8

265 91.3 39.4 59.2#





CALIBRATION SUMMARY

- 1
- 2
- 3
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- 17
- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN037691.D 0.2 =BN037692.D 0.4 =BN037693.D 0.8 =BN037694.D 1.6 =BN037695.D 3.2 =BN037696.D 5 =BN037697.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	0.429	0.422	0.411	0.432	0.418	0.388	0.417	3.80	
3)	n-Nitrosodimet...	0.530	0.564	0.515	0.556	0.550	0.551	0.544	3.34	
4) S	2-Fluorophenol	0.929	0.913	0.892	0.840	0.912	0.937	1.004	0.918	5.37
5) S	Phenol-d6	1.191	1.193	1.156	1.088	1.193	1.225	1.289	1.191	5.15
6)	bis(2-Chloroet...	1.076	1.075	1.070	1.019	1.078	1.066	1.063	1.064	1.94
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.287	0.279	0.285	0.272	0.296	0.303	0.325	0.293	6.05
9)	Naphthalene	1.091	1.072	1.074	1.036	1.117	1.115	1.149	1.093	3.38
10)	Hexachlorobuta...	0.199	0.196	0.197	0.189	0.203	0.199	0.202	0.198	2.29
11) SURR2	Methylnaphth...	0.497	0.497	0.498	0.478	0.522	0.550	0.668	0.530	12.31
12)	2-Methylnaphth...	0.643	0.651	0.659	0.633	0.697	0.712	0.740	0.676	5.91
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.088	0.098	0.101	0.096	0.113	0.131	0.104	14.74	
15) S	2-Fluorobiphenyl	1.663	1.666	1.649	1.586	1.689	1.674	1.785	1.673	3.54
16)	Acenaphthylene	1.754	1.756	1.783	1.727	1.885	1.916	2.020	1.834	5.90
17)	Acenaphthene	1.165	1.199	1.215	1.187	1.272	1.296	1.348	1.240	5.37
18)	Fluorene	1.404	1.402	1.441	1.419	1.545	1.633	1.671	1.502	7.59
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.032	0.033	0.033	0.040	0.046	0.037	16.34		
21)	4-Bromophenyl-...	0.250	0.252	0.251	0.248	0.272	0.269	0.284	0.261	5.43
22)	Hexachlorobenzene	0.301	0.308	0.294	0.280	0.305	0.302	0.310	0.300	3.39
23)	Atrazine	0.145	0.151	0.152	0.146	0.169	0.190	0.209	0.166	15.00
24)	Pentachlorophenol	0.074	0.074	0.073	0.086	0.100	0.115	0.087	19.46	
25)	Phenanthrene	1.228	1.215	1.223	1.173	1.285	1.321	1.371	1.259	5.47
26)	Anthracene	1.038	1.029	1.070	1.030	1.140	1.221	1.281	1.116	9.09
27) SURR	Fluoranthene-d10	0.912	0.887	0.935	0.883	0.954	1.108	1.350	1.004	16.98
28)	Fluoranthene	1.257	1.224	1.310	1.269	1.393	1.578	1.637	1.381	11.91
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.578	1.618	1.557	1.473	1.603	1.542	1.590	1.566	3.09
31) S	Terphenyl-d14	0.806	0.833	0.801	0.754	0.812	0.784	0.892	0.812	5.30
32)	Benzo(a)anthra...	1.386	1.345	1.347	1.297	1.410	1.459	1.522	1.395	5.46
33)	Chrysene	1.523	1.491	1.496	1.402	1.510	1.506	1.543	1.496	3.01
34)	Bis(2-ethylhex...	0.440	0.376	0.345	0.380	0.438	0.504	0.414	13.96	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN091125.M

36)	Indeno(1,2,3-c...	1.517	1.491	1.543	1.532	1.791	1.865	2.025	1.681	12.58
37)	Benzo(b)fluora...	1.463	1.475	1.554	1.444	1.636	1.674	1.778	1.575	7.99
38)	Benzo(k)fluora...	1.516	1.543	1.524	1.501	1.705	1.696	1.756	1.606	6.73
39) C	Benzo(a)pyrene	1.155	1.172	1.201	1.151	1.314	1.367	1.467	1.261	9.78
40)	Dibenzo(a,h)an...	1.157	1.175	1.210	1.232	1.463	1.519	1.636	1.342	14.39
41)	Benzo(g,h,i)pe...	1.413	1.402	1.451	1.375	1.568	1.607	1.723	1.506	8.59

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037691.D
 Acq On : 11 Sep 2025 09:56
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

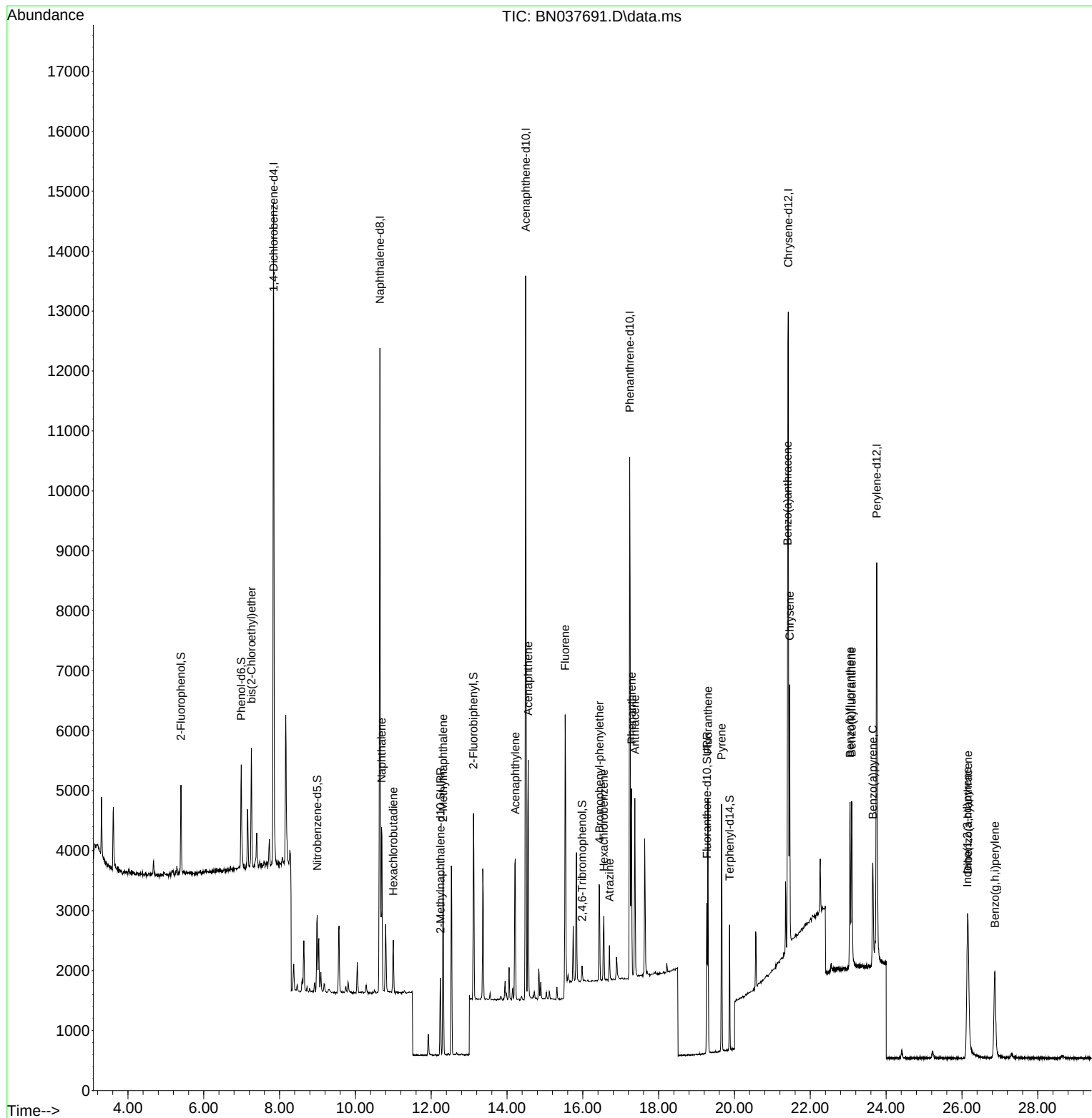
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5271	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	14013	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6484	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11736	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9323	0.400	ng	0.00
35) Perylene-d12	23.753	264	9603	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	1224	0.101	ng	0.00
5) Phenol-d6	6.987	99	1570	0.100	ng	0.00
8) Nitrobenzene-d5	8.992	82	1006	0.098	ng	0.00
11) 2-Methylnaphthalene-d10	12.242	152	1740	0.094	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	142	0.084	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	2696	0.099	ng	0.00
27) Fluoranthene-d10	19.271	212	2677	0.091	ng	0.00
31) Terphenyl-d14	19.870	244	1879	0.099	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.255	93	1418	0.101	ng	Qvalue 98
9) Naphthalene	10.690	128	3822	0.100	ng	95
10) Hexachlorobutadiene	11.000	225	697	0.101	ng	# 99
12) 2-Methylnaphthalene	12.313	142	2253	0.095	ng	97
16) Acenaphthylene	14.216	152	2843	0.096	ng	99
17) Acenaphthene	14.558	154	1889	0.094	ng	94
18) Fluorene	15.535	166	2276	0.093	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	733	0.096	ng	# 95
22) Hexachlorobenzene	16.552	284	883	0.100	ng	99
23) Atrazine	16.701	200	426	0.088	ng	# 89
25) Phenanthrene	17.285	178	3604	0.098	ng	98
26) Anthracene	17.372	178	3046	0.093	ng	99
28) Fluoranthene	19.299	202	3689	0.091	ng	99
30) Pyrene	19.661	202	3679	0.101	ng	99
32) Benzo(a)anthracene	21.402	228	3231	0.099	ng	99
33) Chrysene	21.456	228	3549	0.102	ng	97
36) Indeno(1,2,3-cd)pyrene	26.142	276	3642	0.090	ng	97
37) Benzo(b)fluoranthene	23.048	252	3513	0.093	ng	# 82
38) Benzo(k)fluoranthene	23.092	252	3640	0.094	ng	# 73
39) Benzo(a)pyrene	23.651	252	2774	0.092	ng	# 76
40) Dibenzo(a,h)anthracene	26.159	278	2778	0.086	ng	# 79
41) Benzo(g,h,i)perylene	26.870	276	3393	0.094	ng	# 91

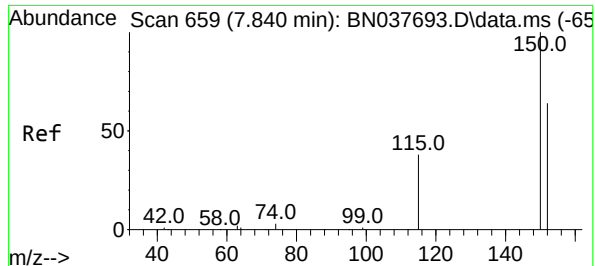
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Data File : BN037691.D
Acq On : 11 Sep 2025 09:56
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 11 14:05:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

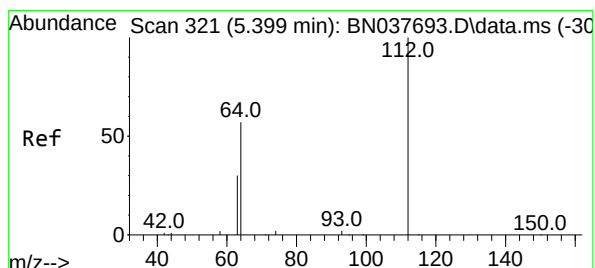
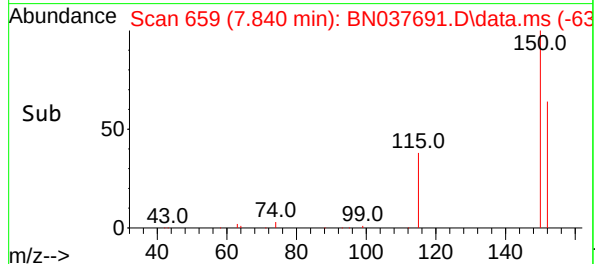
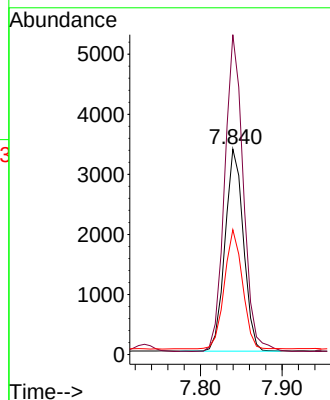
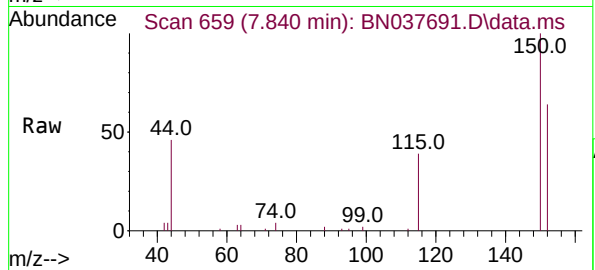




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

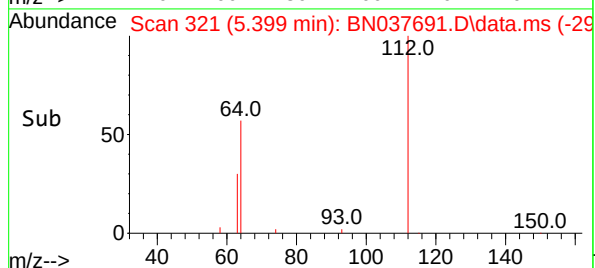
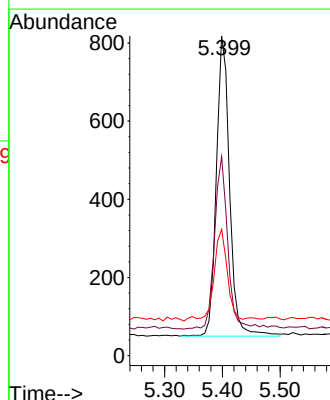
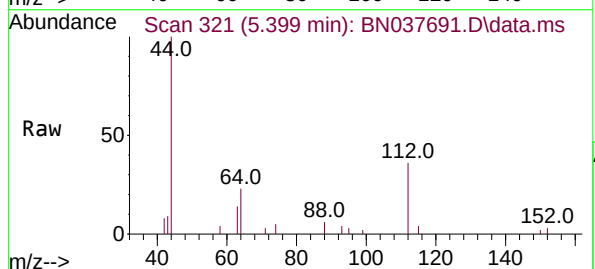
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

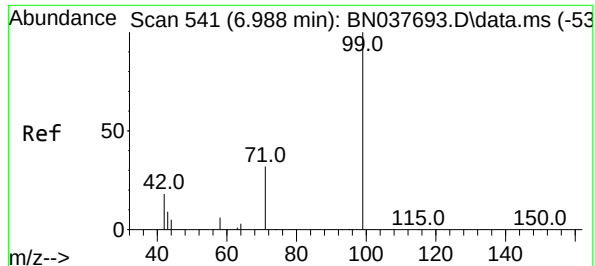
Tgt Ion:152 Resp: 5271
Ion Ratio Lower Upper
152 100
150 155.8 124.5 186.7
115 60.8 49.2 73.8



#4
2-Fluorophenol
Concen: 0.101 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:112 Resp: 1224
Ion Ratio Lower Upper
112 100
64 58.5 44.9 67.3
63 28.8 24.7 37.1

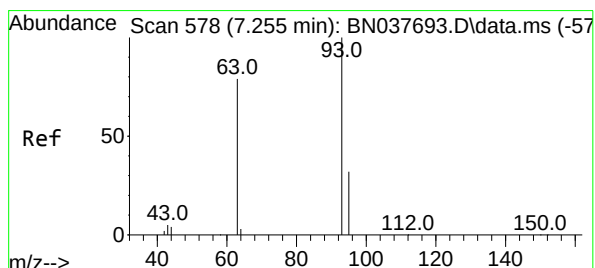
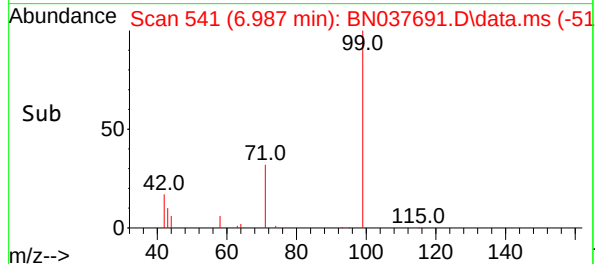
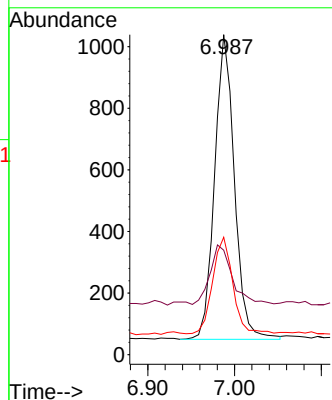
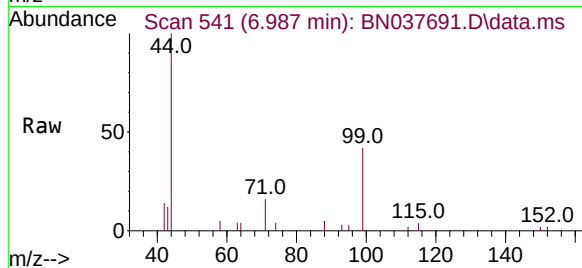




#5
Phenol-d6
Concen: 0.100 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

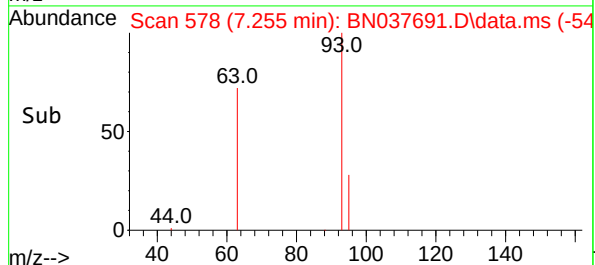
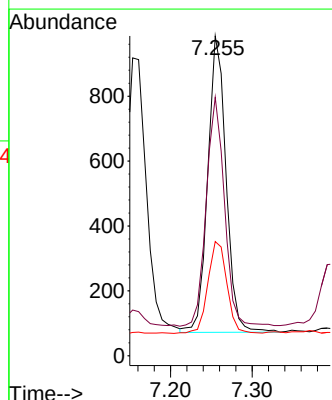
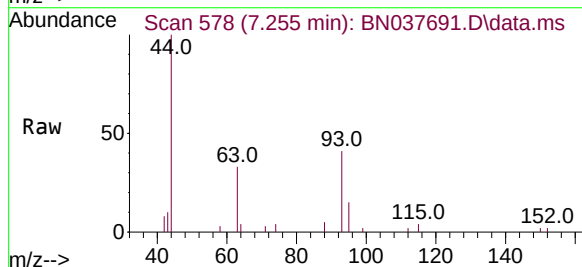
Instrument :
BNA_N
ClientSampleId :
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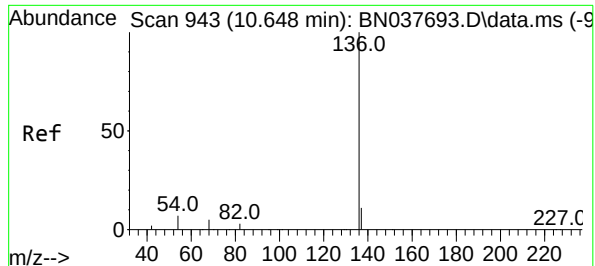
Tgt Ion: 99 Resp: 1570
Ion Ratio Lower Upper
99 100
42 21.8 16.6 24.8
71 32.4 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 93 Resp: 1418
Ion Ratio Lower Upper
93 100
63 77.9 60.6 90.8
95 32.2 26.0 39.0

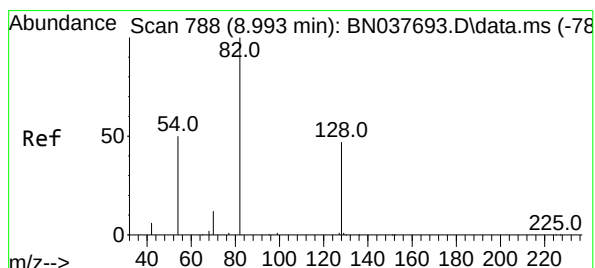
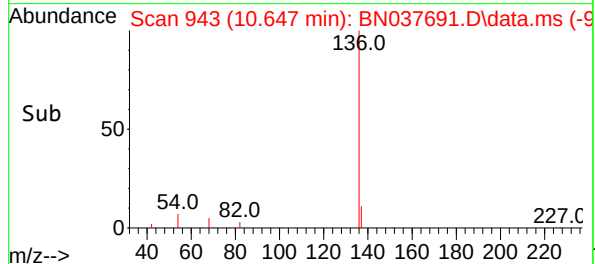
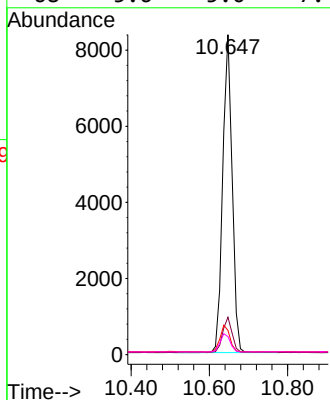
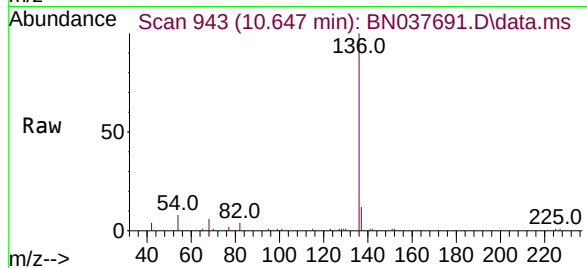




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

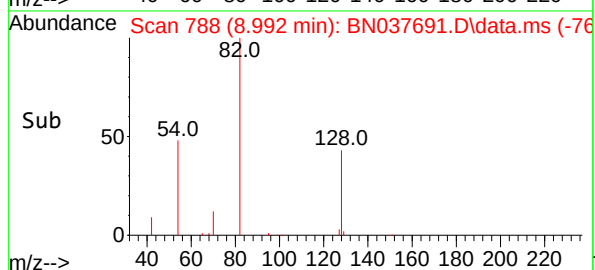
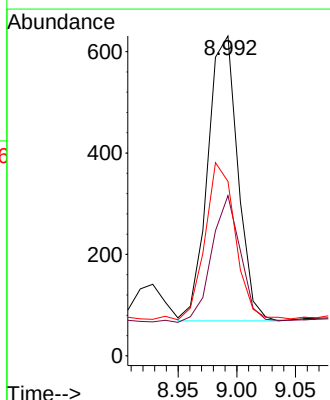
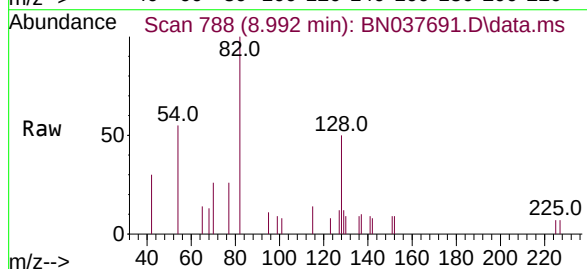
Instrument :
BNA_N
ClientSampleId :
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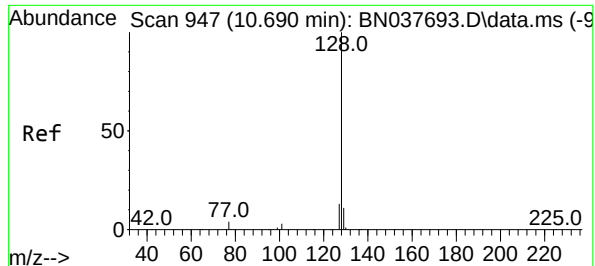
Tgt Ion:136	Resp:	14013
Ion	Ratio	Lower Upper
136	100	
137	11.7	9.1 13.7
54	7.6	6.3 9.5
68	5.6	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion: 82	Resp:	1006
Ion	Ratio	Lower Upper
82	100	
128	50.1	38.3 57.5
54	54.5	41.4 62.2

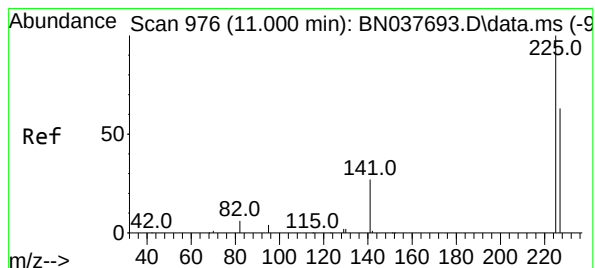
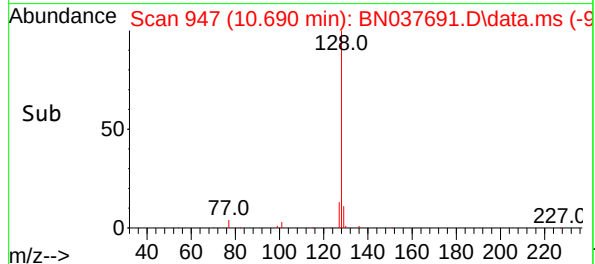
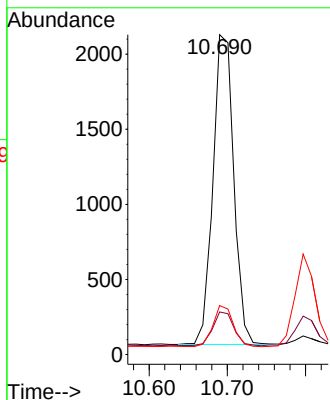
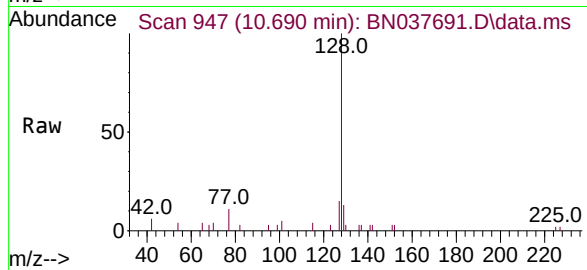




#9
Naphthalene
Concen: 0.100 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

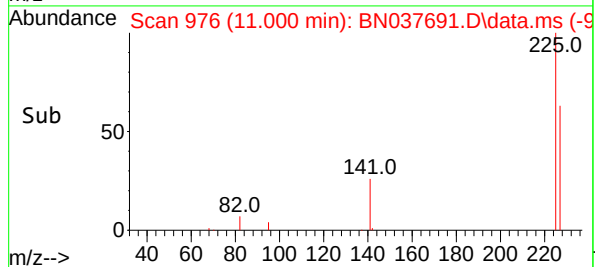
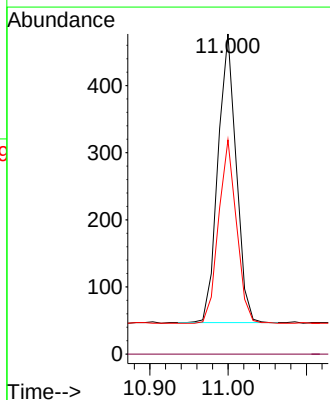
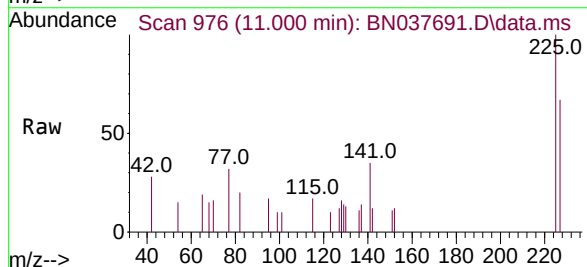
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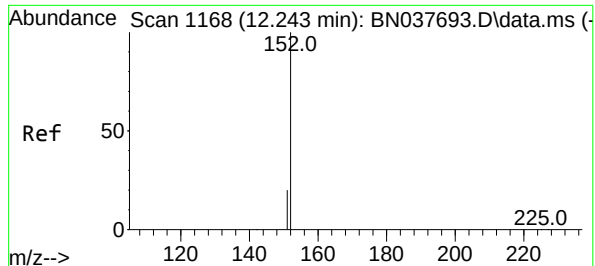
Tgt Ion	128	129	127
Resp:	3822		
Ion Ratio	100	13.3	15.3
Lower		9.1	10.9
Upper		13.7	16.3



#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion	225	223	227
Resp:	697		
Ion Ratio	100	0.0	62.6
Lower		0.0	50.9
Upper		0.0	76.3

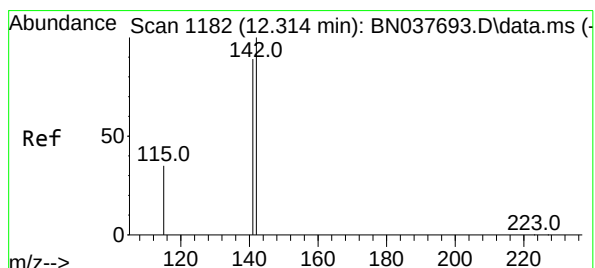
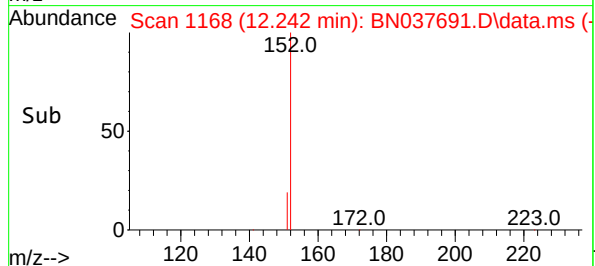
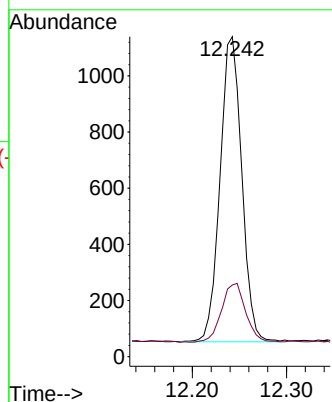
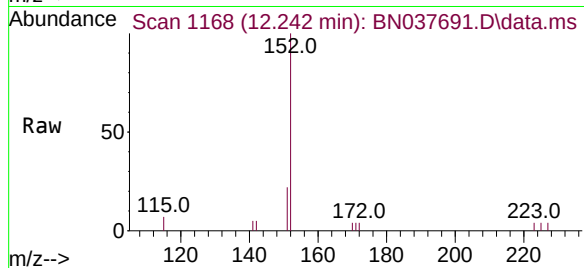




#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

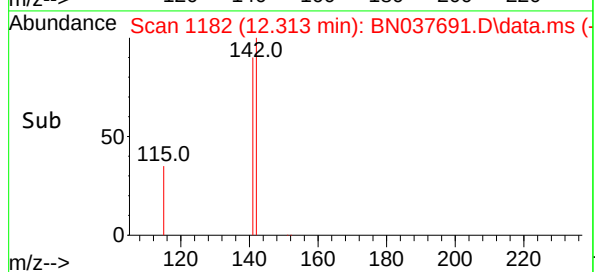
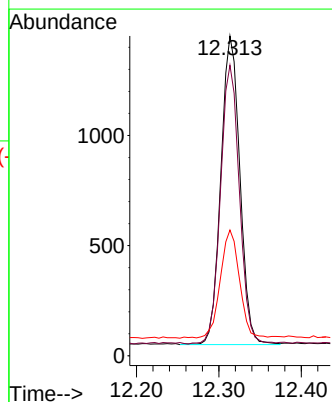
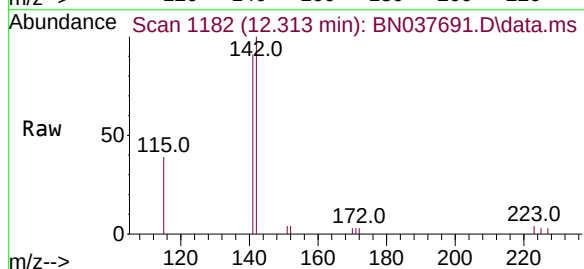
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ClientSampleId :
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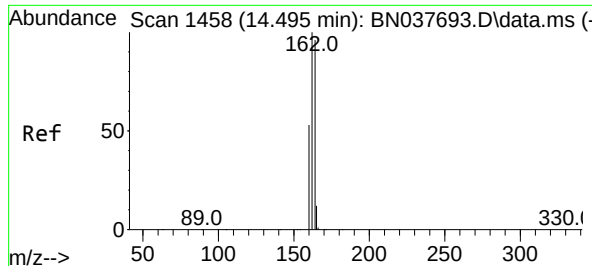
Tgt Ion:152 Resp: 1740
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion:142 Resp: 2253
Ion Ratio Lower Upper
142 100
141 90.8 71.6 107.4
115 39.3 28.6 43.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.494 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

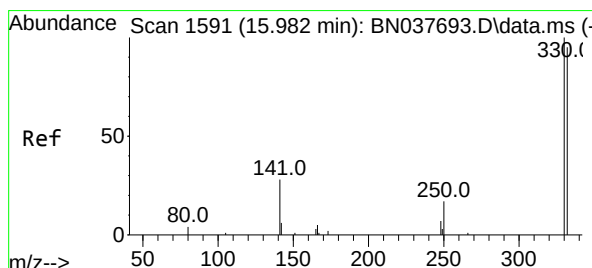
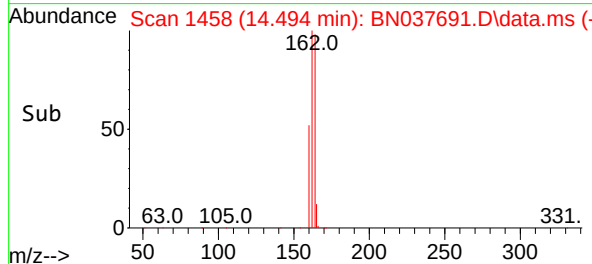
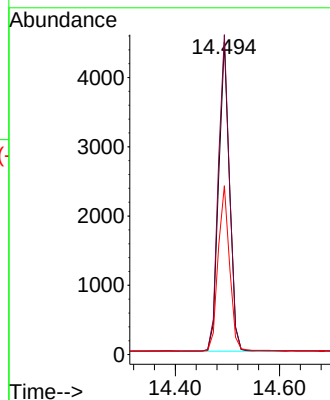
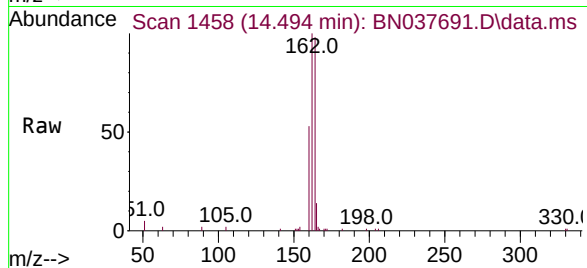
Tgt Ion:164 Resp: 6484

Ion Ratio Lower Upper

164 100

162 102.4 83.1 124.7

160 54.0 44.3 66.5



#14

2,4,6-Tribromophenol

Concen: 0.084 ng

RT: 15.982 min Scan# 1591

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

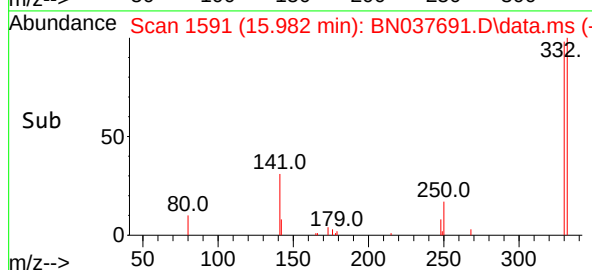
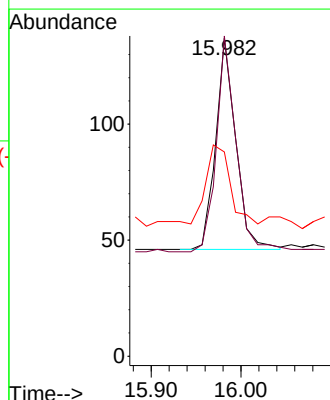
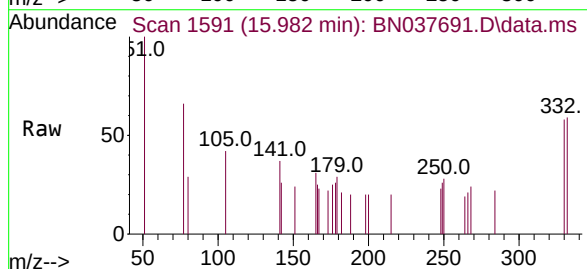
Tgt Ion:330 Resp: 142

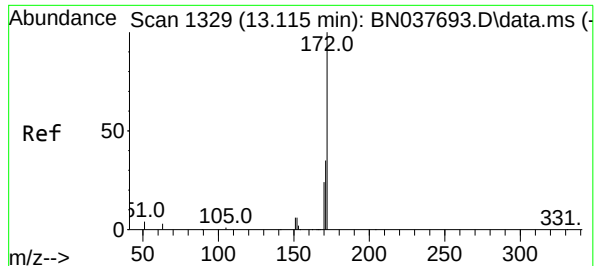
Ion Ratio Lower Upper

330 100

332 101.4 75.3 112.9

141 44.4 35.0 52.4





#15

2-Fluorobiphenyl

Concen: 0.099 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

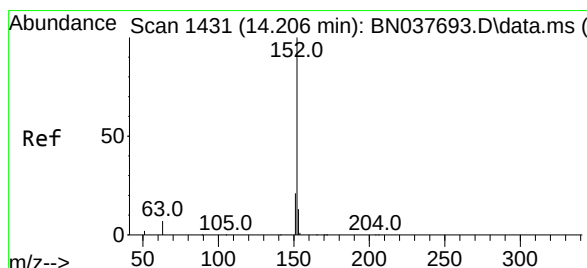
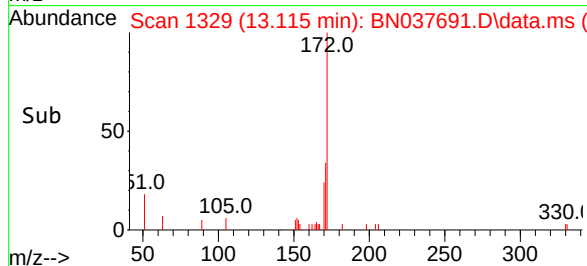
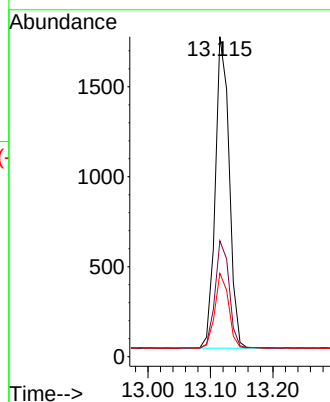
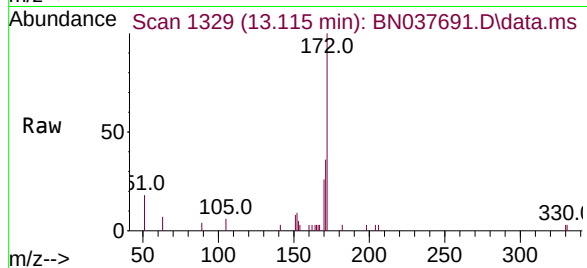
Tgt Ion:172 Resp: 2696

Ion Ratio Lower Upper

172 100

171 36.2 28.6 43.0

170 26.0 19.8 29.8



#16

Acenaphthylene

Concen: 0.096 ng

RT: 14.216 min Scan# 1432

Delta R.T. 0.010 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

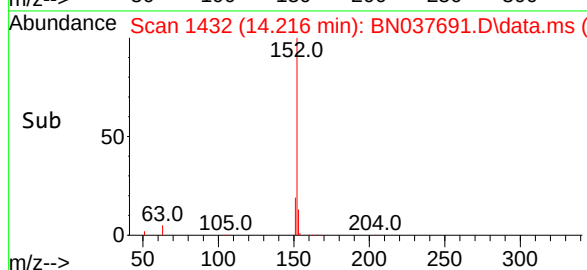
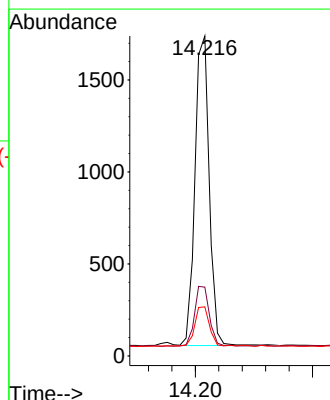
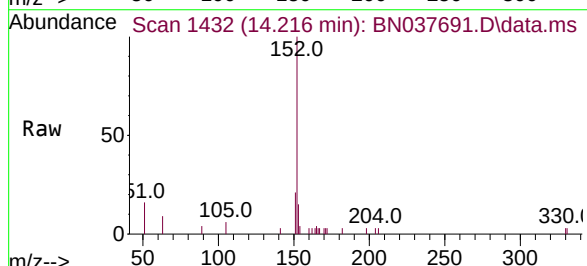
Tgt Ion:152 Resp: 2843

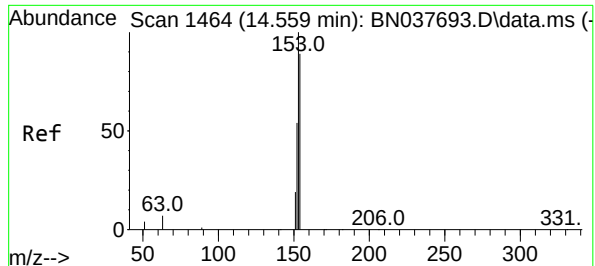
Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.2

153 13.5 10.4 15.6





#17

Acenaphthene

Concen: 0.094 ng

RT: 14.558 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

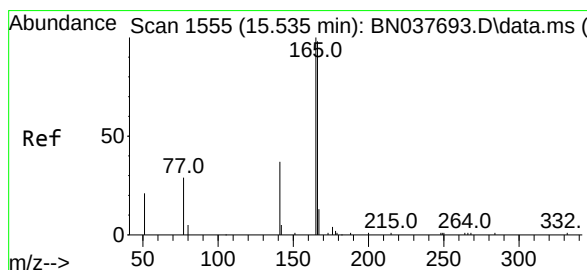
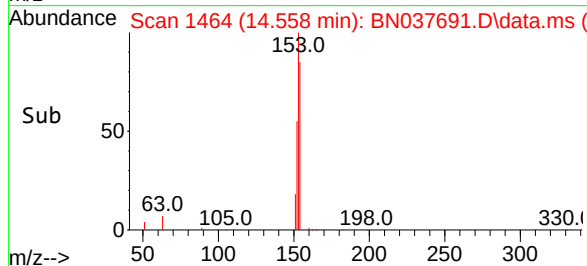
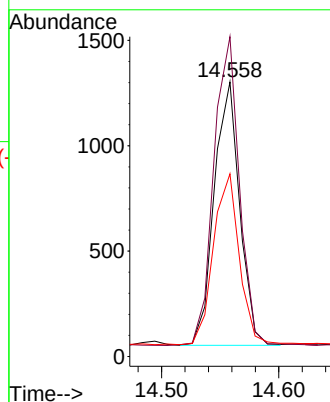
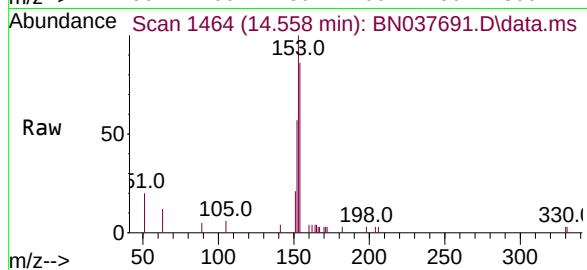
Tgt Ion:154 Resp: 1889

Ion Ratio Lower Upper

154 100

153 118.1 89.8 134.8

152 67.5 50.2 75.2



#18

Fluorene

Concen: 0.093 ng

RT: 15.535 min Scan# 1555

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

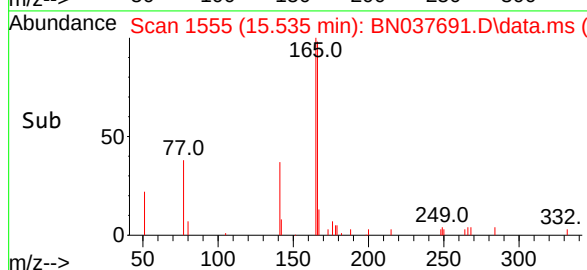
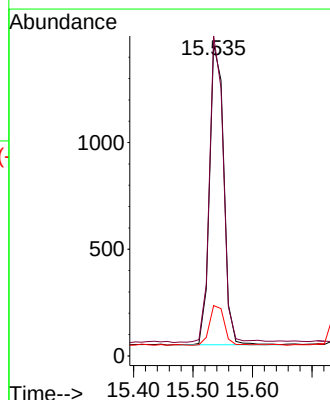
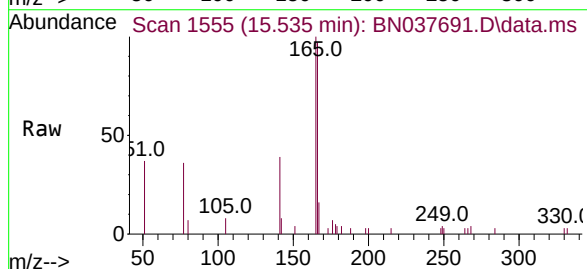
Tgt Ion:166 Resp: 2276

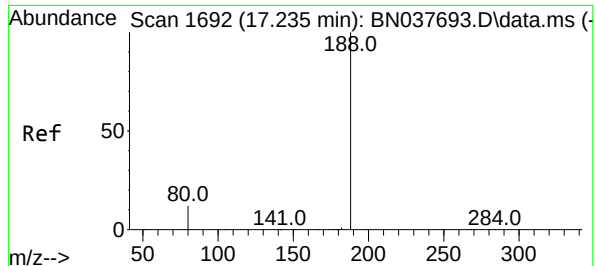
Ion Ratio Lower Upper

166 100

165 100.0 79.6 119.4

167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

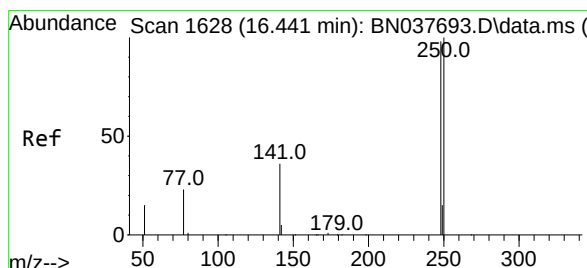
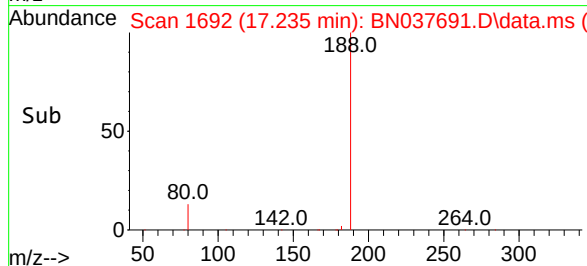
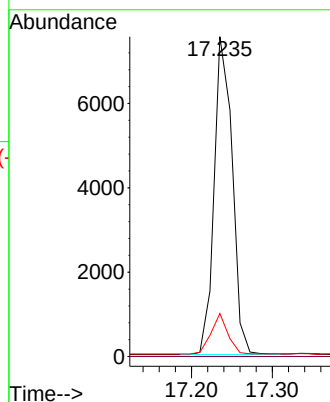
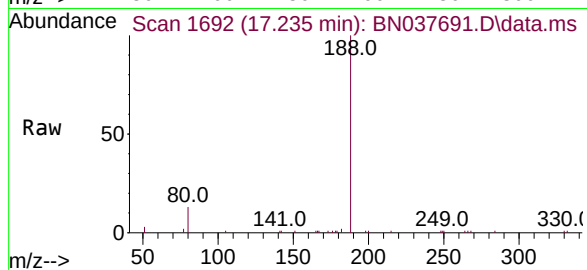
Tgt Ion:188 Resp: 11736

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 10.6 15.8



#21

4-Bromophenyl-phenylether

Concen: 0.096 ng

RT: 16.441 min Scan# 1628

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

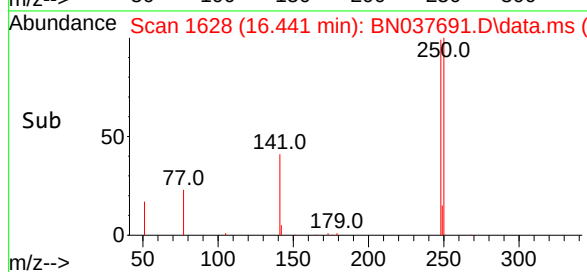
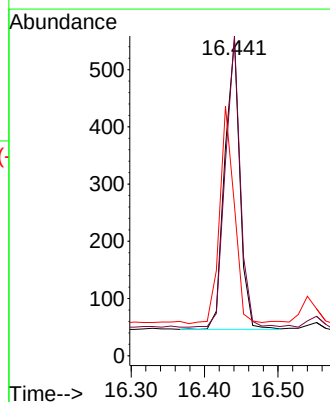
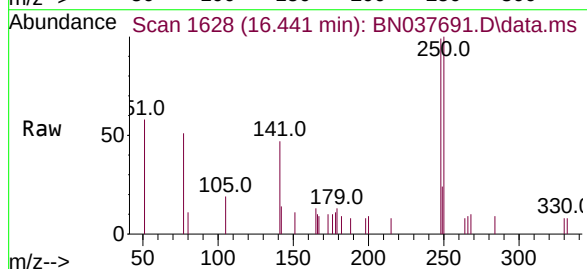
Tgt Ion:248 Resp: 733

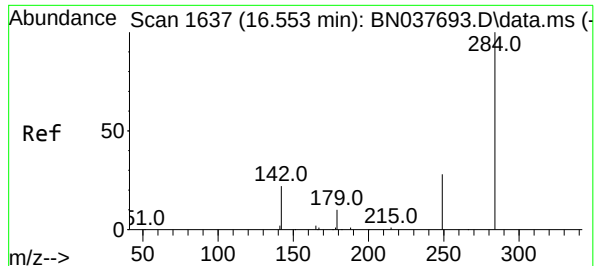
Ion Ratio Lower Upper

248 100

250 101.1 81.5 122.3

141 47.6 30.8 46.2#





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

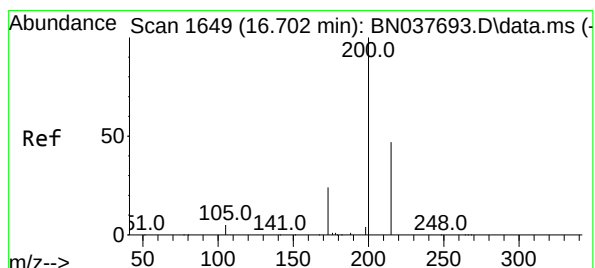
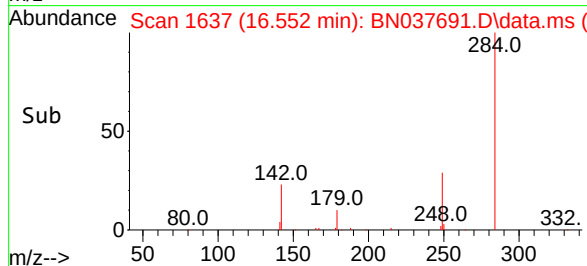
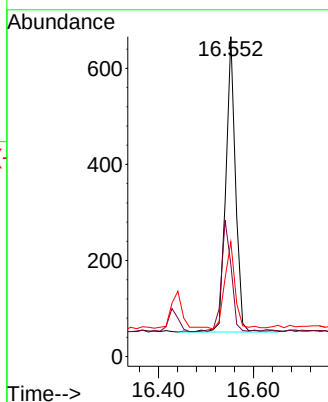
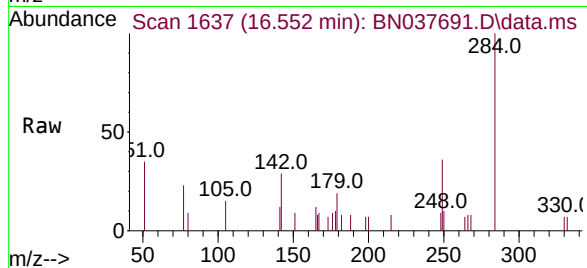
Tgt Ion:284 Resp: 883

Ion Ratio Lower Upper

284 100

142 38.1 30.9 46.3

249 29.9 24.8 37.2



#23

Atrazine

Concen: 0.088 ng

RT: 16.701 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

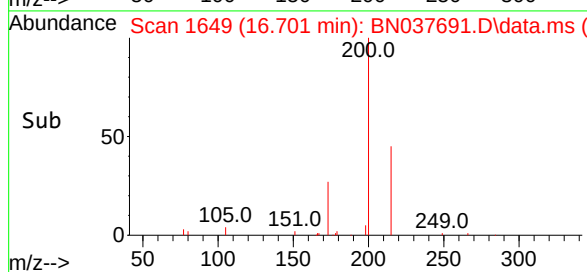
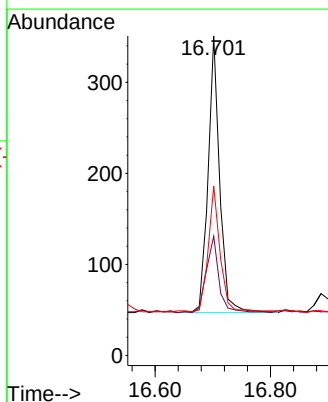
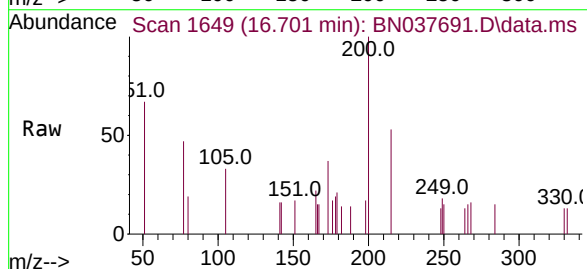
Tgt Ion:200 Resp: 426

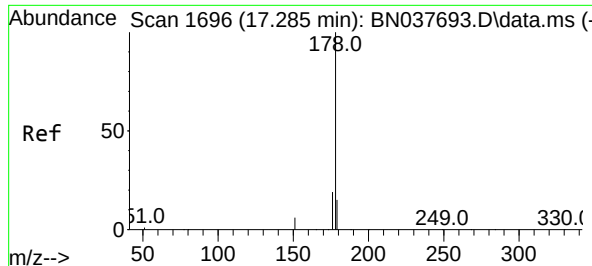
Ion Ratio Lower Upper

200 100

173 37.3 21.4 32.2#

215 53.0 39.2 58.8





#25

Phenanthrene

Concen: 0.098 ng

RT: 17.285 min Scan# 1696

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

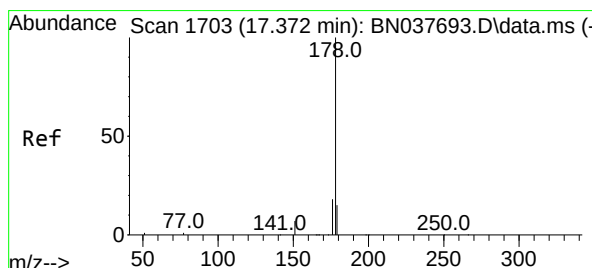
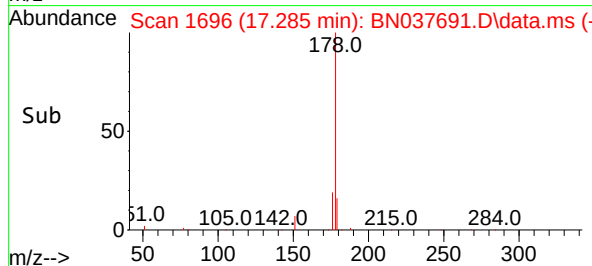
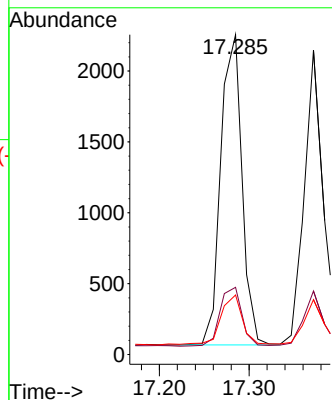
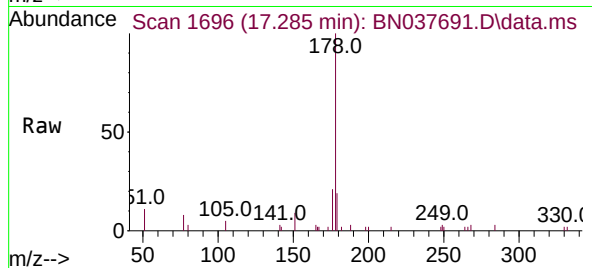
Tgt Ion:178 Resp: 3604

Ion Ratio Lower Upper

178 100

176 19.7 15.3 22.9

179 16.6 12.2 18.2



#26

Anthracene

Concen: 0.093 ng

RT: 17.372 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

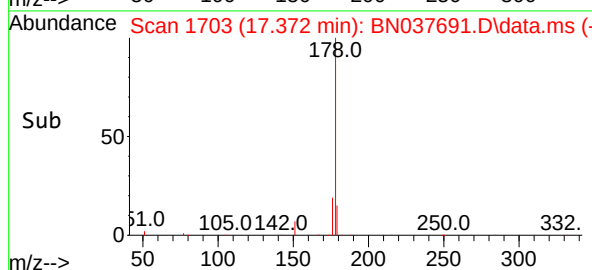
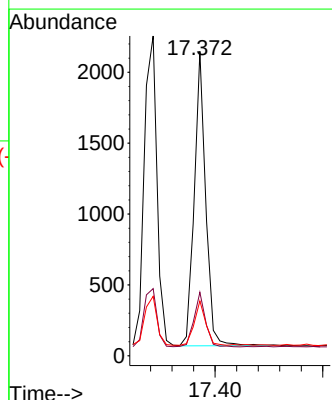
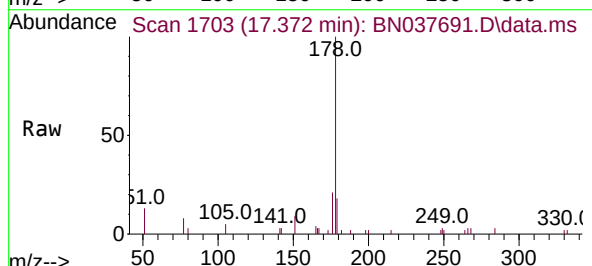
Tgt Ion:178 Resp: 3046

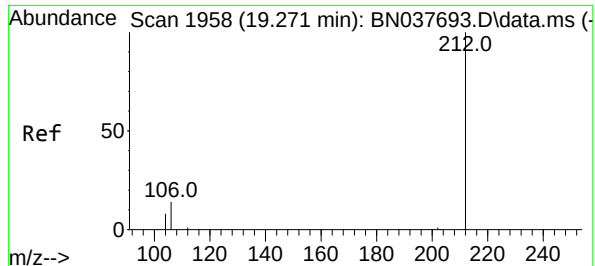
Ion Ratio Lower Upper

178 100

176 18.7 14.6 22.0

179 15.1 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.091 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

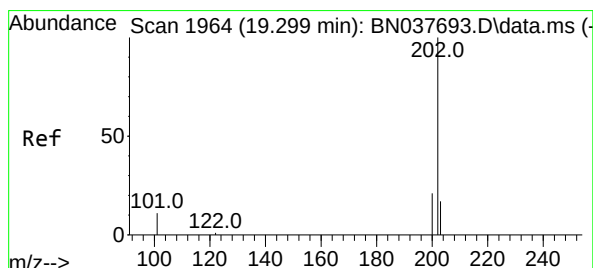
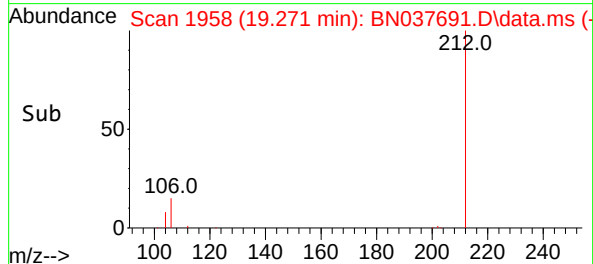
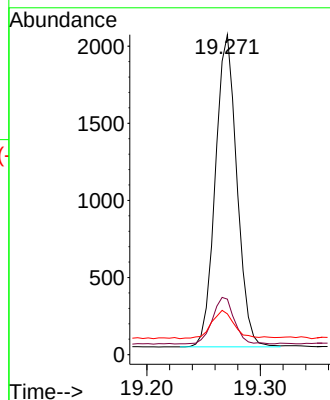
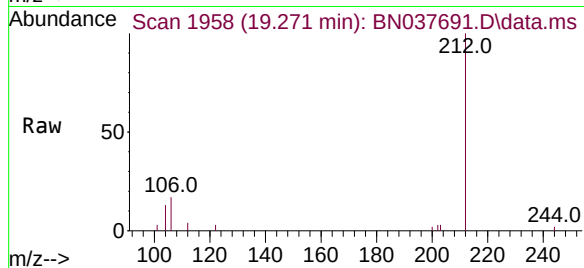
BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:212 Resp: 2677

Ion	Ratio	Lower	Upper
212	100		
106	14.9	12.2	18.2
104	9.4	6.9	10.3



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.299 min Scan# 1964

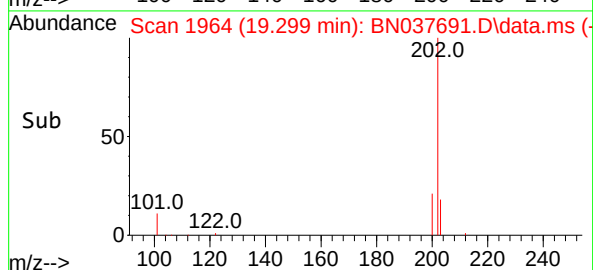
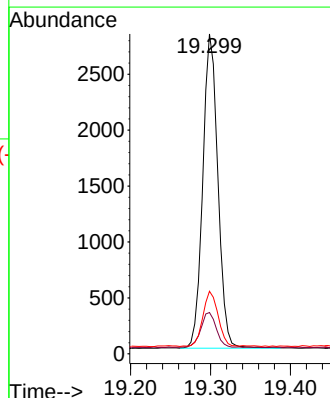
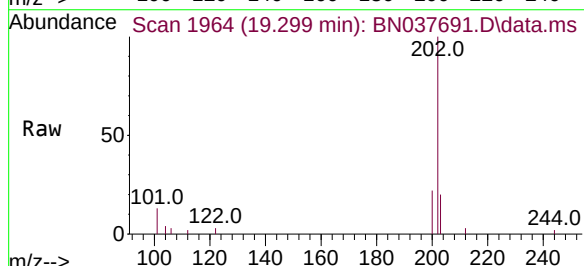
Delta R.T. -0.000 min

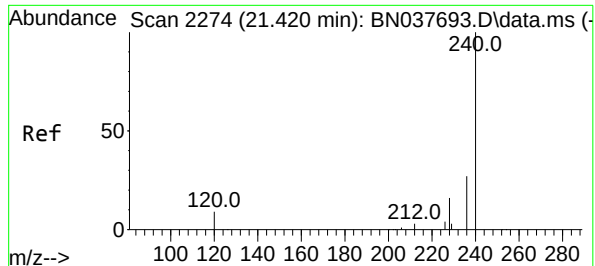
Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Tgt Ion:202 Resp: 3689

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.5	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

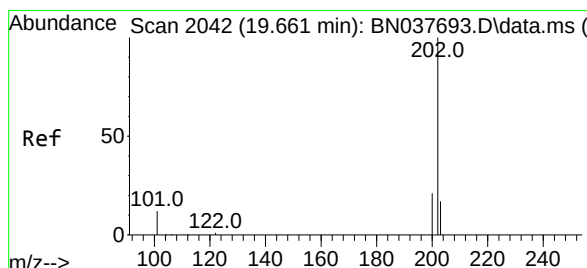
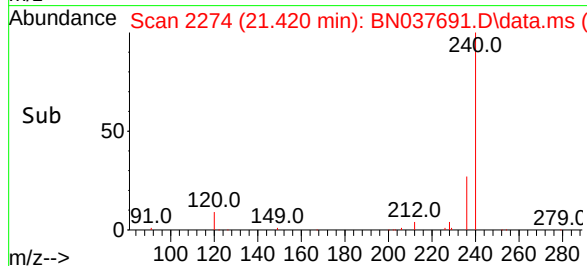
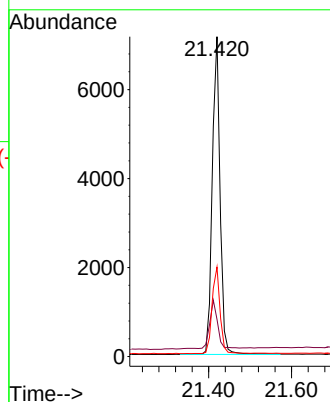
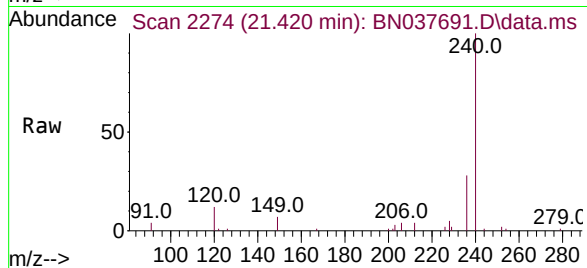
Tgt Ion:240 Resp: 9323

Ion Ratio Lower Upper

240 100

120 11.6 9.2 13.8

236 28.0 22.6 33.8



#30

Pyrene

Concen: 0.101 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

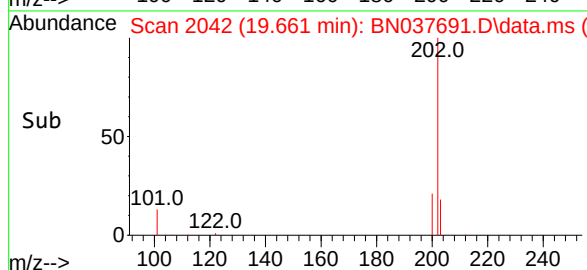
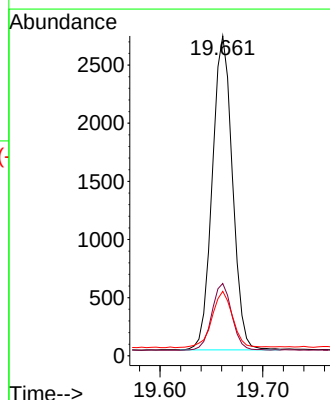
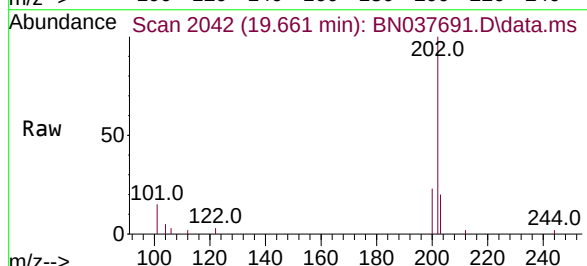
Tgt Ion:202 Resp: 3679

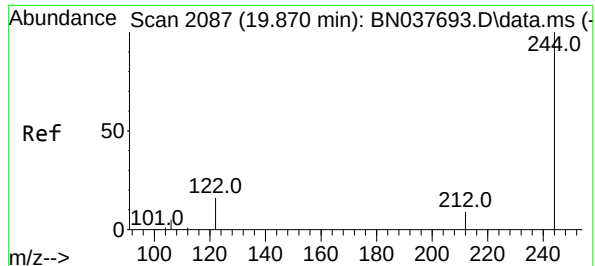
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 18.4 14.3 21.5





#31

Terphenyl-d14

Concen: 0.099 ng

RT: 19.870 min Scan# 2087

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

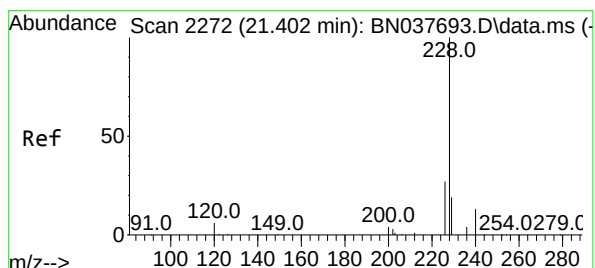
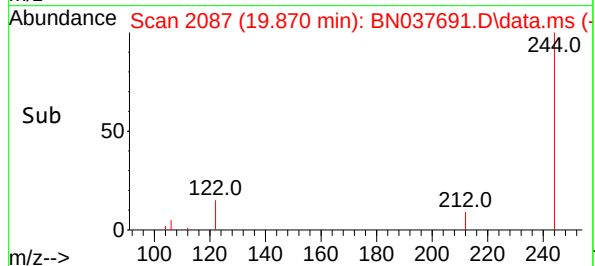
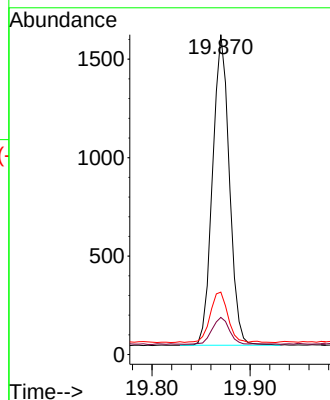
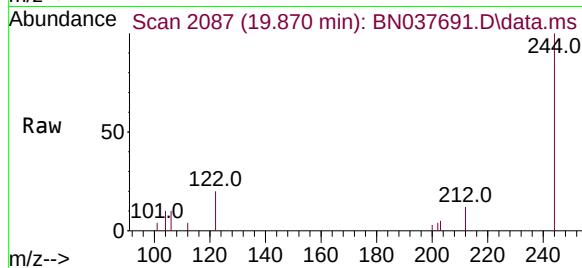
Tgt Ion:244 Resp: 1879

Ion Ratio Lower Upper

244 100

212 11.6 7.5 11.3#

122 19.5 13.2 19.8



#32

Benzo(a)anthracene

Concen: 0.099 ng

RT: 21.402 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

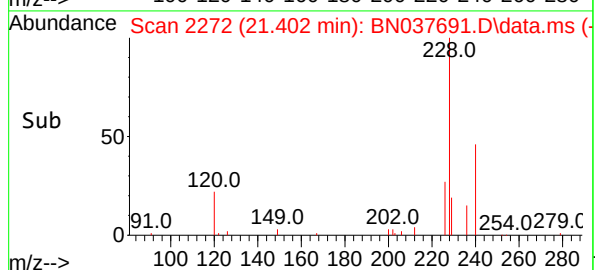
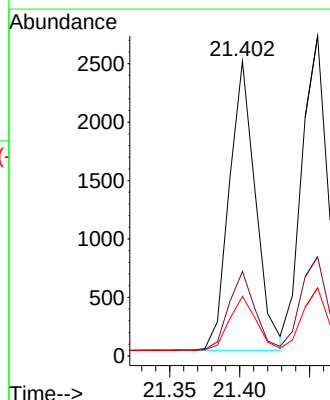
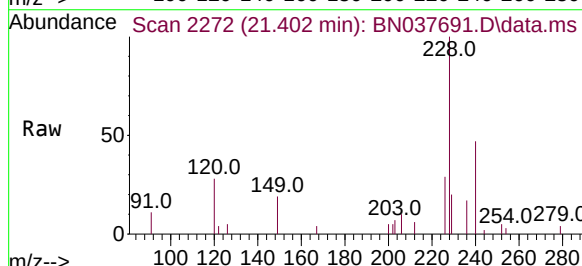
Tgt Ion:228 Resp: 3231

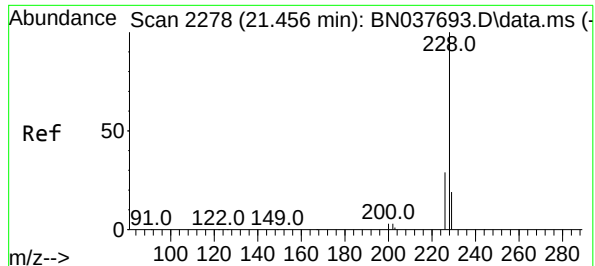
Ion Ratio Lower Upper

228 100

226 28.6 22.2 33.2

229 20.2 15.8 23.6

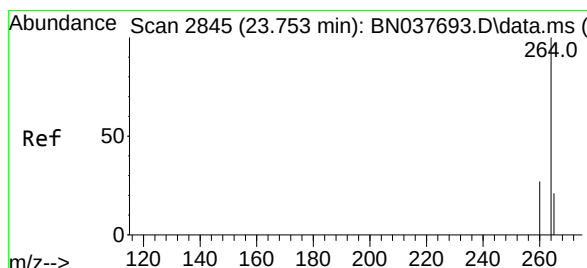
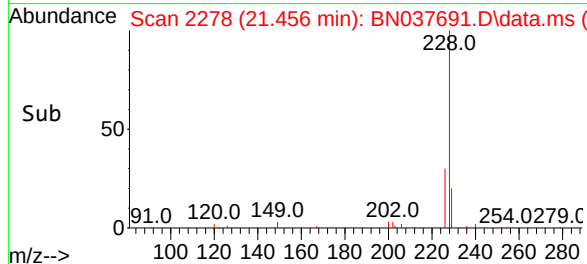
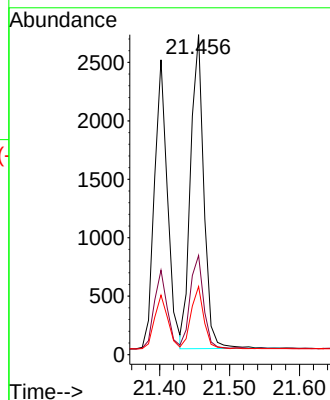
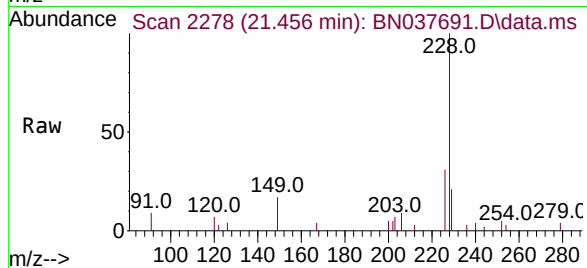




#33
Chrysene
Concen: 0.102 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

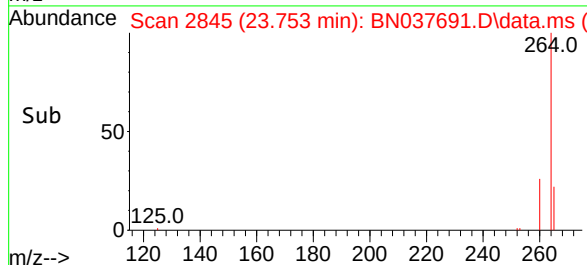
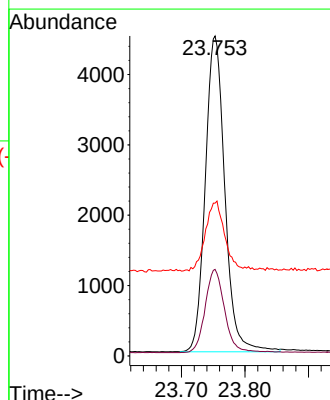
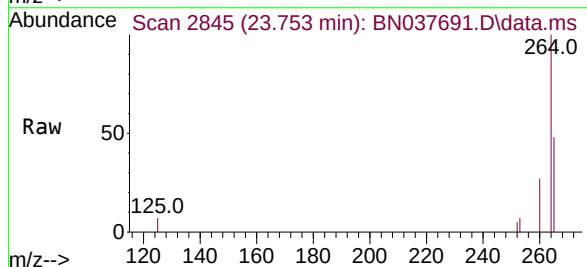
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

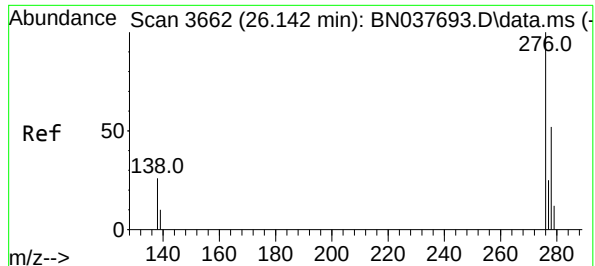
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.5	35.3
229	21.3	15.9	23.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037691.D
Acq: 11 Sep 2025 09:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.8	32.8
265	47.7	39.4	59.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.090 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

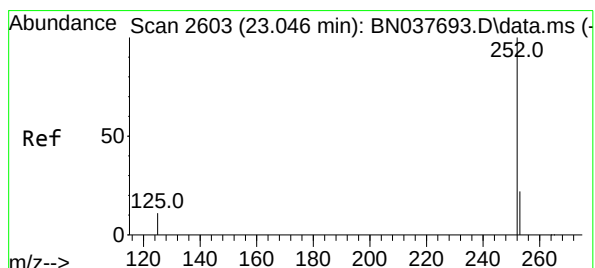
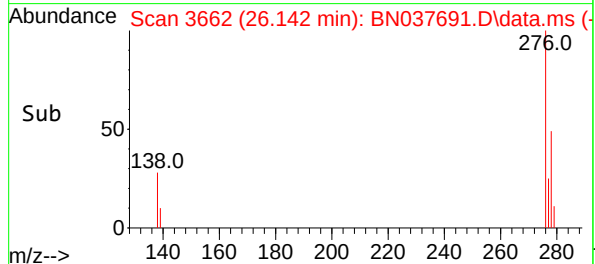
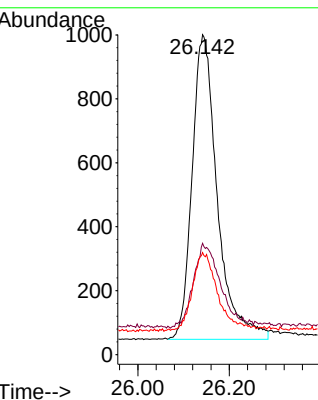
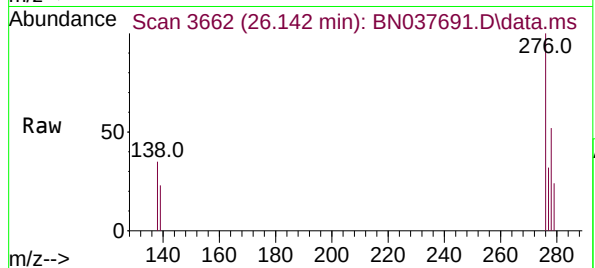
Tgt Ion:276 Resp: 3642

Ion Ratio Lower Upper

276 100

138 29.4 21.9 32.9

277 23.8 20.1 30.1



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.048 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

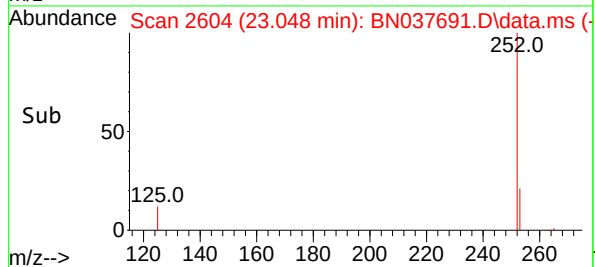
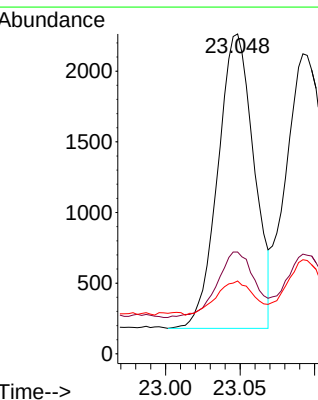
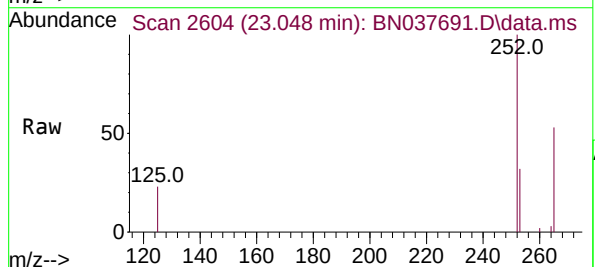
Tgt Ion:252 Resp: 3513

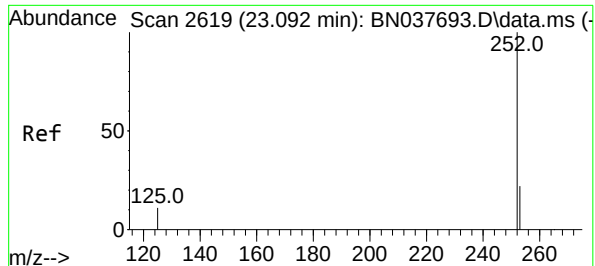
Ion Ratio Lower Upper

252 100

253 31.8 19.4 29.2#

125 22.8 11.2 16.8#





#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 23.092 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

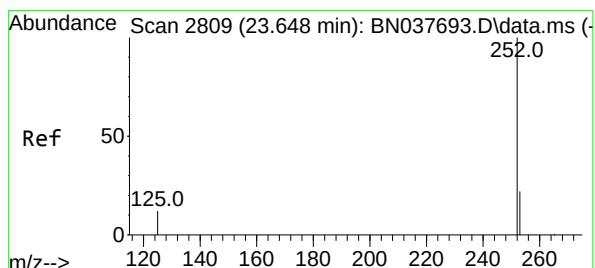
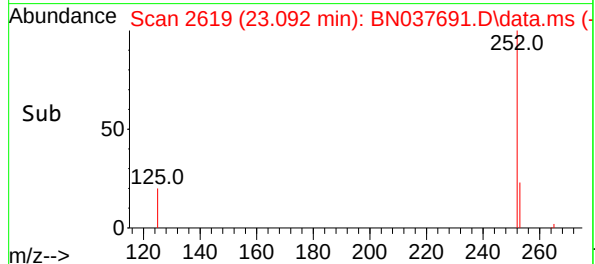
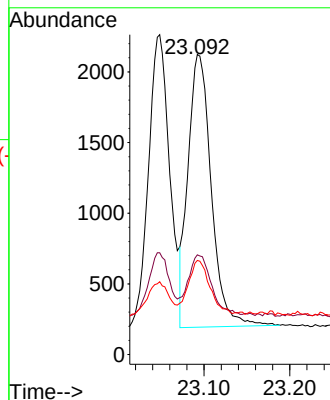
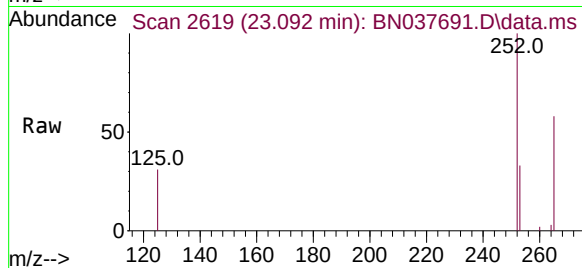
Tgt Ion:252 Resp: 3640

Ion Ratio Lower Upper

252 100

253 33.3 19.4 29.0#

125 31.4 11.6 17.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

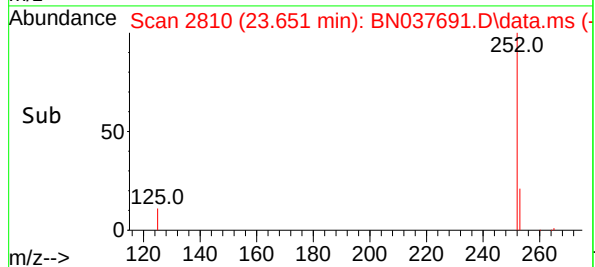
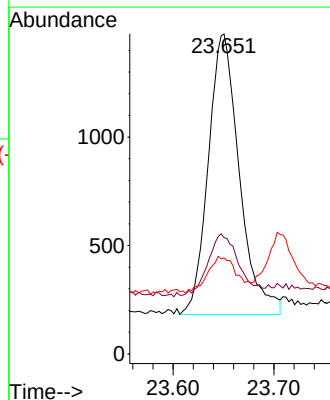
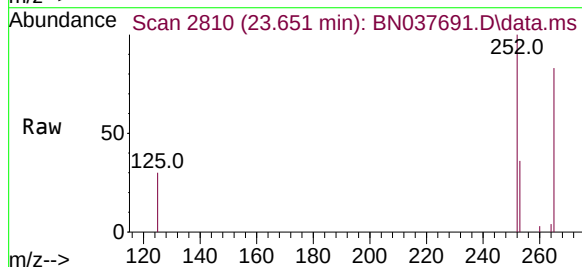
Tgt Ion:252 Resp: 2774

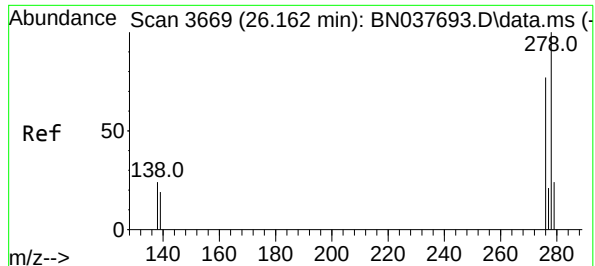
Ion Ratio Lower Upper

252 100

253 36.3 20.8 31.2#

125 30.0 13.9 20.9#





#40

Dibenzo(a,h)anthracene

Concen: 0.086 ng

RT: 26.159 min Scan# 30

Delta R.T. -0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

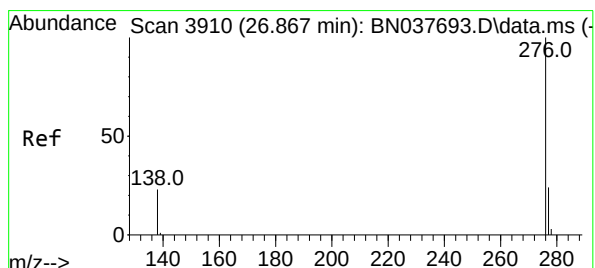
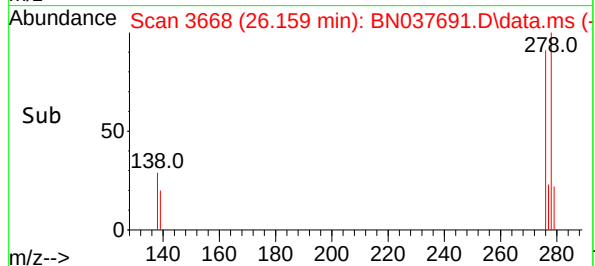
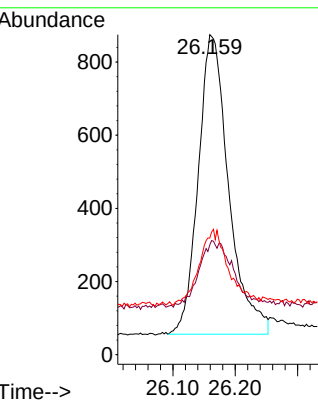
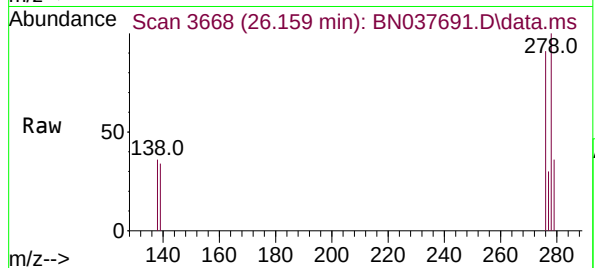
Tgt Ion:278 Resp: 2778

Ion Ratio Lower Upper

278 100

139 34.3 17.8 26.6#

279 36.5 22.0 33.0#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.870 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN037691.D

Acq: 11 Sep 2025 09:56

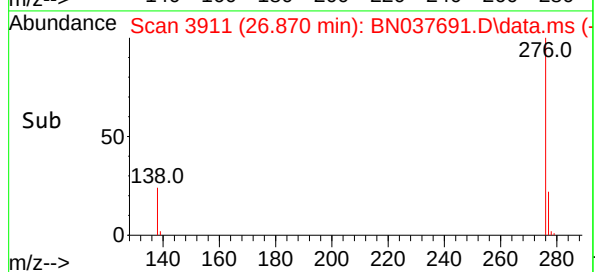
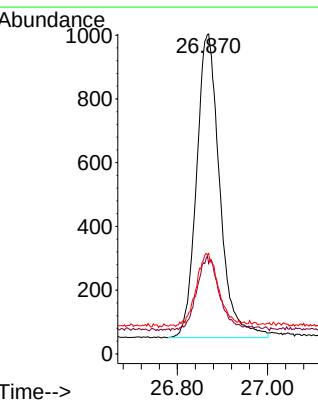
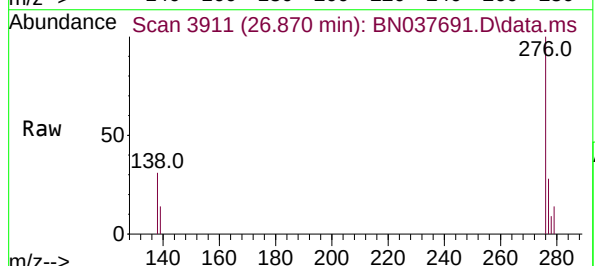
Tgt Ion:276 Resp: 3393

Ion Ratio Lower Upper

276 100

277 28.3 20.6 31.0

138 31.4 20.2 30.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037692.D
 Acq On : 11 Sep 2025 10:32
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025

Quant Time: Sep 11 14:05:36 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Sep 11 14:02:44 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng	0.00
35) Perylene-d12	23.753	264	9364	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2533	0.199	ng	0.00
5) Phenol-d6	6.988	99	3308	0.200	ng	0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng	0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng	0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	1189	0.206	ng	99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng	100
9) Naphthalene	10.701	128	8051	0.196	ng	99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	# 100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng	100
16) Acenaphthylene	14.216	152	6105	0.191	ng	98
17) Acenaphthene	14.559	154	4168	0.193	ng	98
18) Fluorene	15.535	166	4875	0.187	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	# 58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng	97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng	99
23) Atrazine	16.702	200	932	0.181	ng	96
24) Pentachlorophenol	16.888	266	461	0.171	ng	98
25) Phenanthrene	17.285	178	7526	0.193	ng	98
26) Anthracene	17.372	178	6375	0.185	ng	99
28) Fluoranthene	19.299	202	7577	0.177	ng	100
30) Pyrene	19.661	202	7543	0.207	ng	99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng	99
33) Chrysene	21.456	228	6953	0.199	ng	98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng	99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	# 93
38) Benzo(k)fluoranthene	23.092	252	7226m	0.192	ng	
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	# 92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	# 90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDIC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

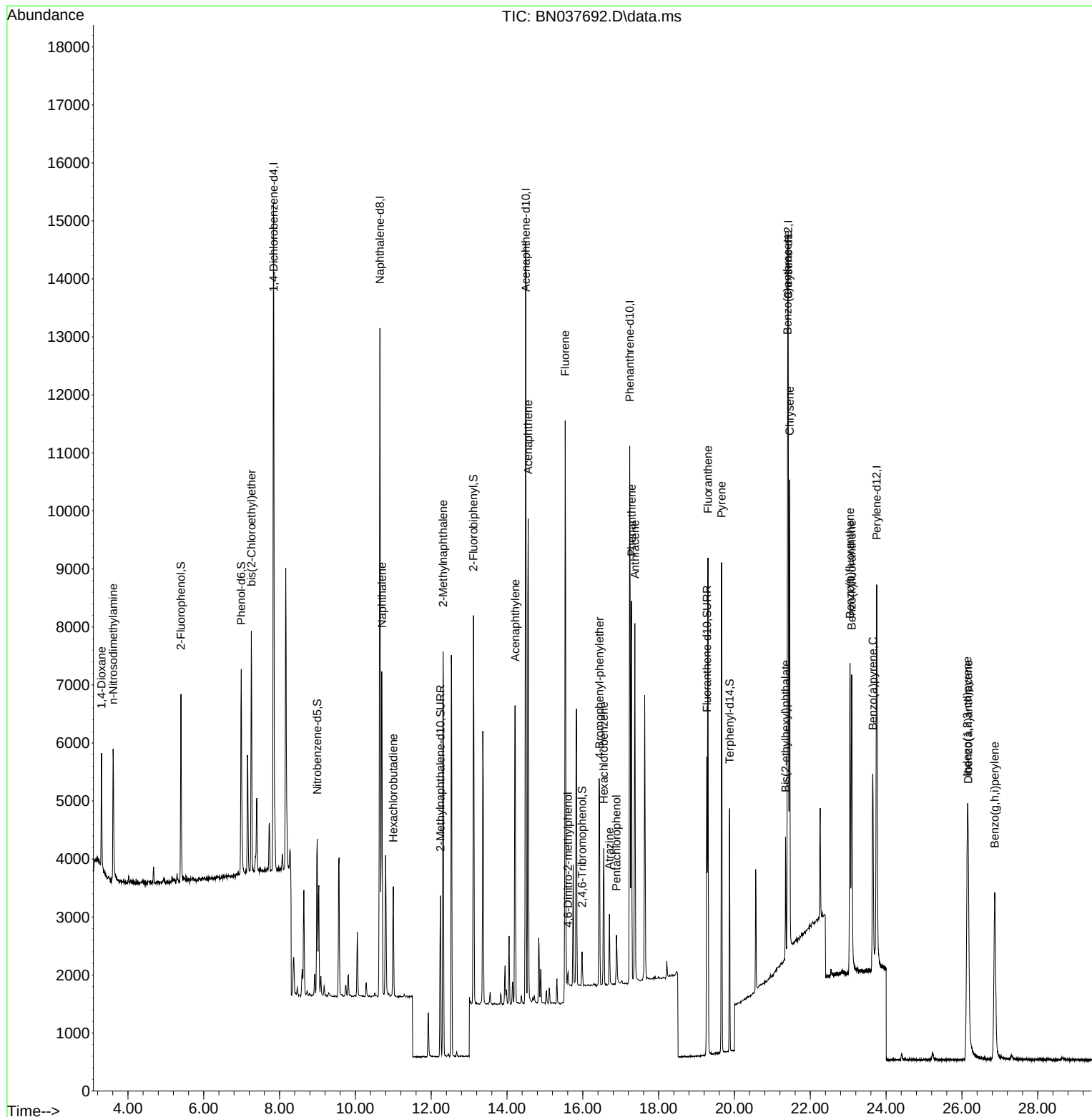
Manual Integrations

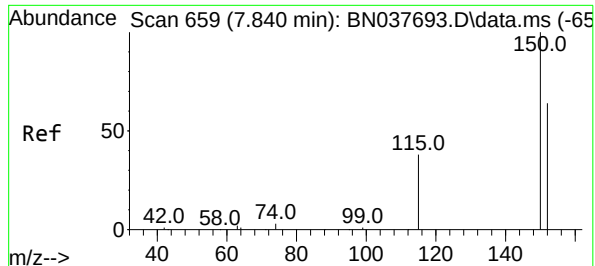
APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025

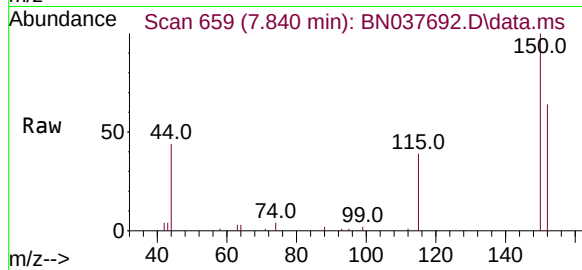
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

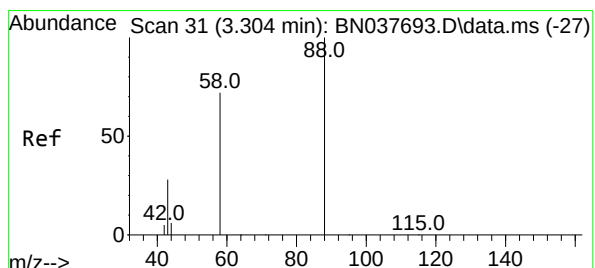
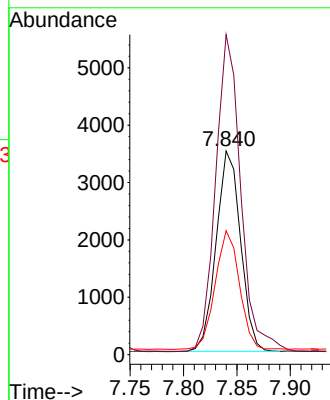
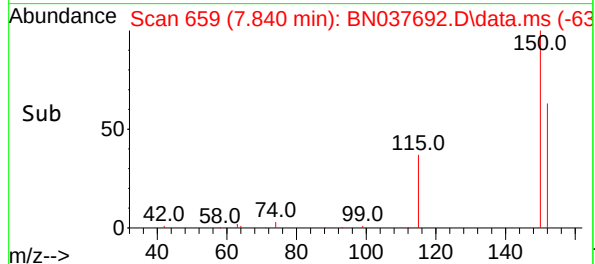
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 554
Ion Ratio Lower Upper
152 100
150 157.2 124.5 186.7
115 60.9 49.2 73.8

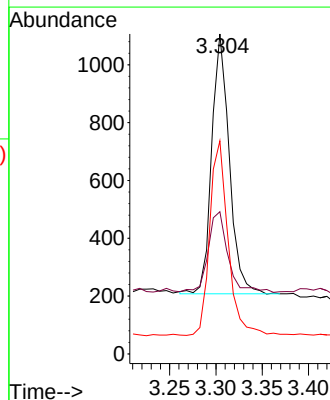
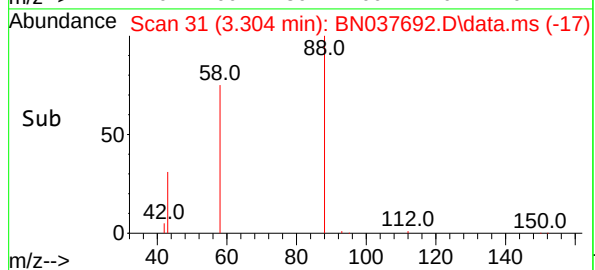
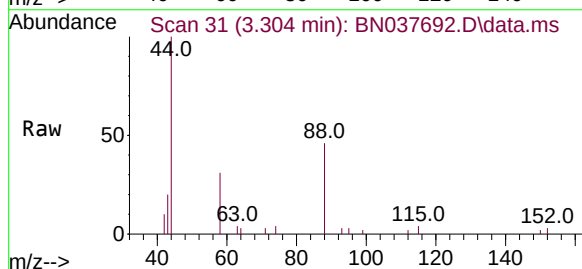
Manual Integrations
APPROVED

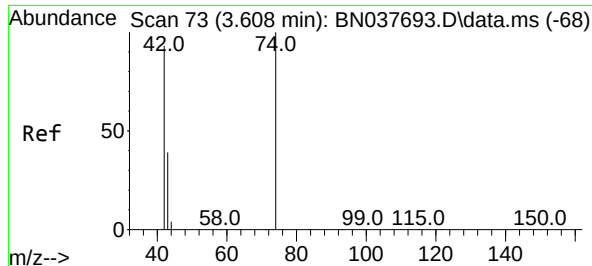
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#2
1,4-Dioxane
Concen: 0.206 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

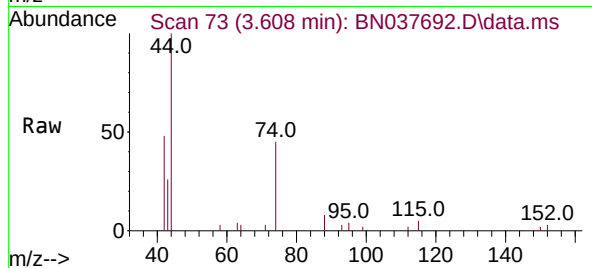
Tgt Ion: 88 Resp: 1189
Ion Ratio Lower Upper
88 100
43 34.1 26.8 40.2
58 78.4 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

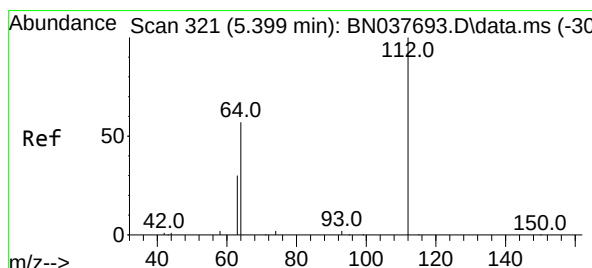
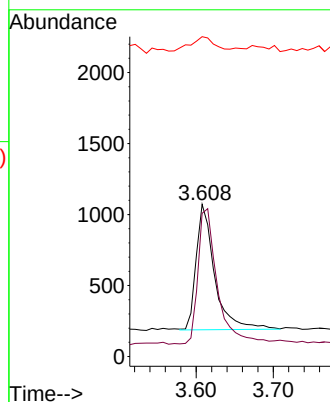
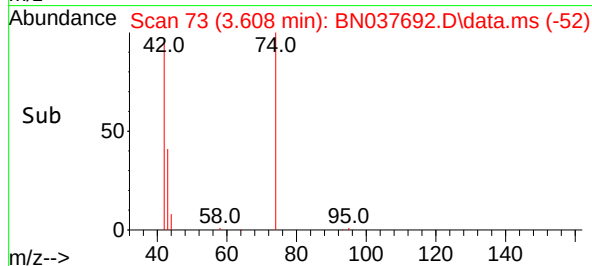
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 1470
Ion Ratio Lower Upper
42 100
74 113.6 86.0 129.0
44 16.2 8.4 12.6

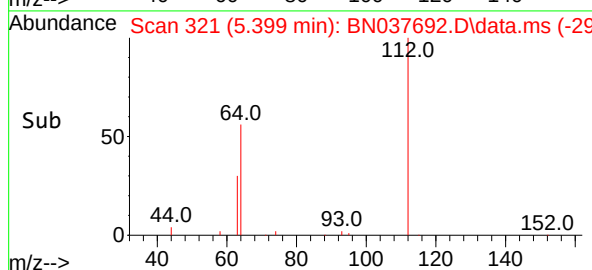
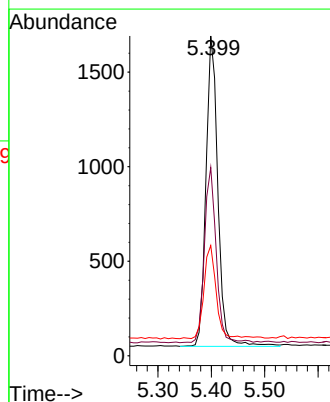
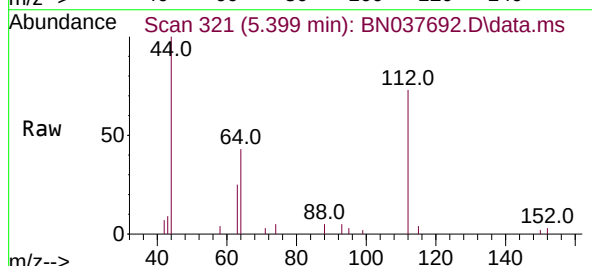
Manual Integrations
APPROVED

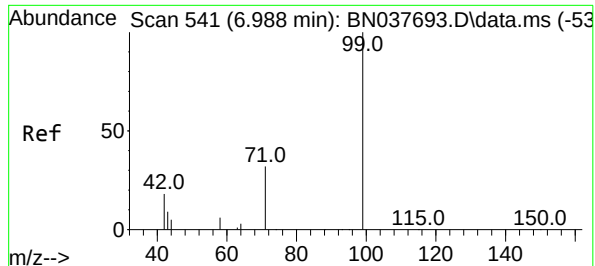
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:112 Resp: 2533
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.4 24.7 37.1





#5

Phenol-d6

Concen: 0.200 ng

RT: 6.988 min Scan# 541

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

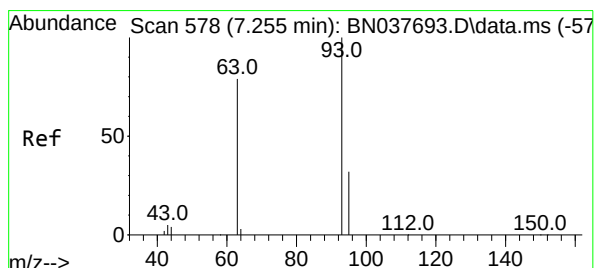
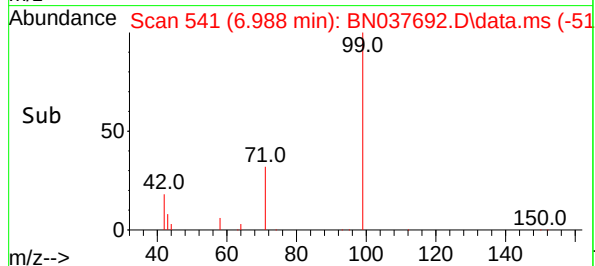
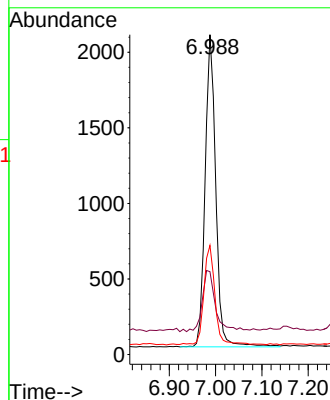
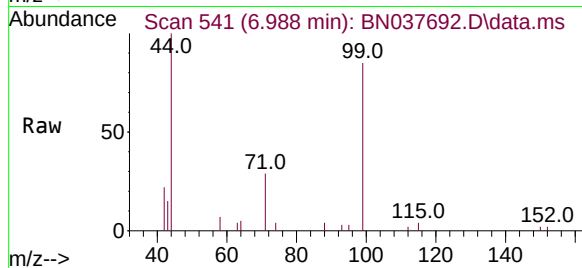
SSTDICC0.2

Tgt Ion:	99	Resp:	3308
Ion	Ratio	Lower	Upper
99	100		
42	24.3	16.6	24.8
71	32.8	26.7	40.1

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#6

bis(2-Chloroethyl)ether

Concen: 0.202 ng

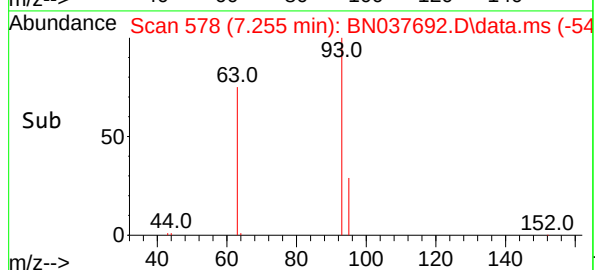
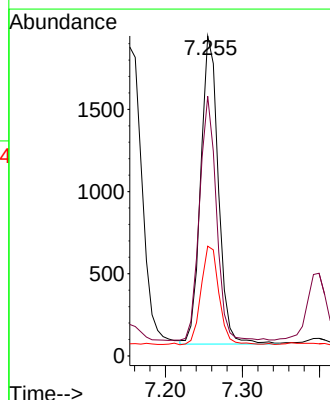
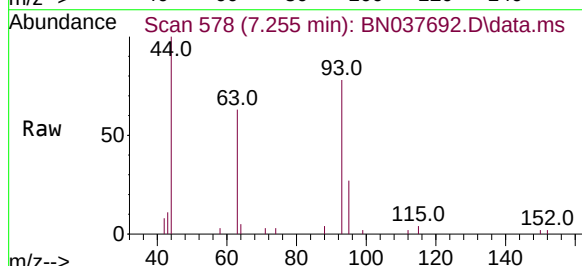
RT: 7.255 min Scan# 578

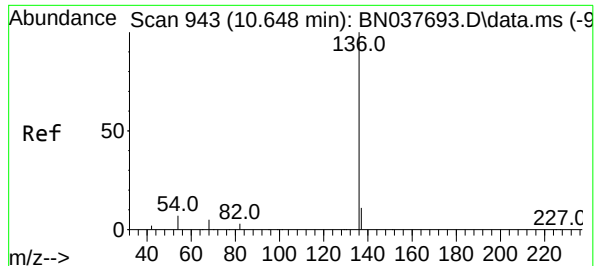
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	93	Resp:	2982
Ion	Ratio	Lower	Upper
93	100		
63	75.7	60.6	90.8
95	32.5	26.0	39.0





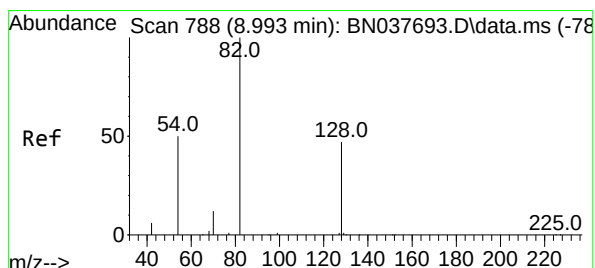
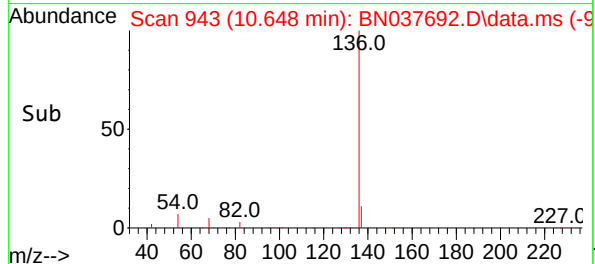
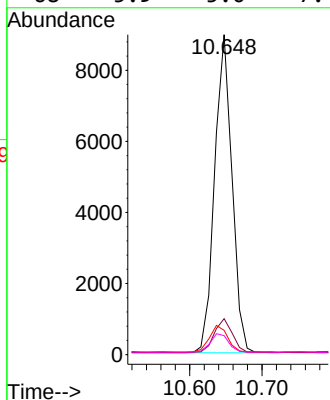
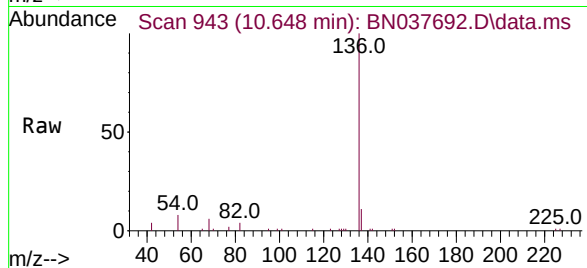
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:	136	Resp:	15018
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4

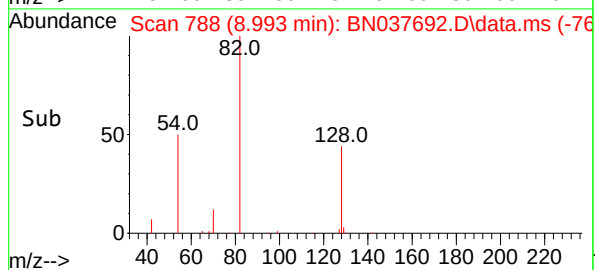
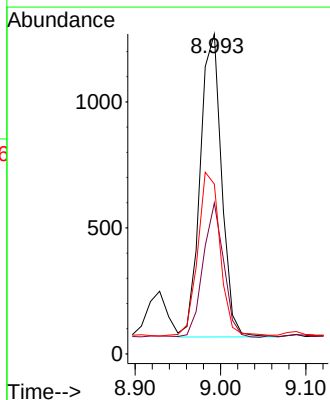
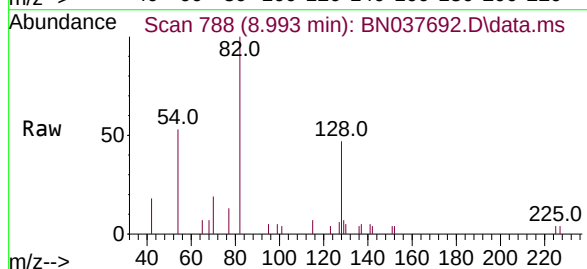
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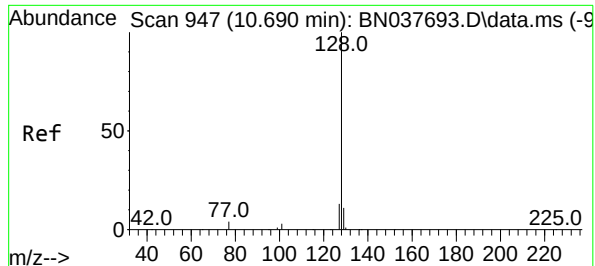
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:	82	Resp:	2098
Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2





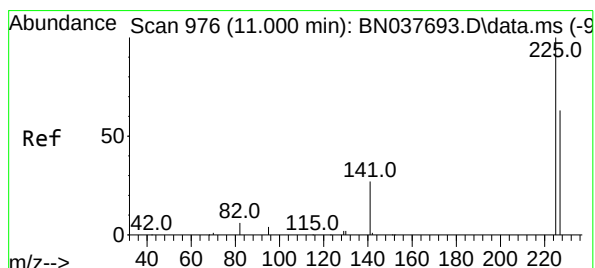
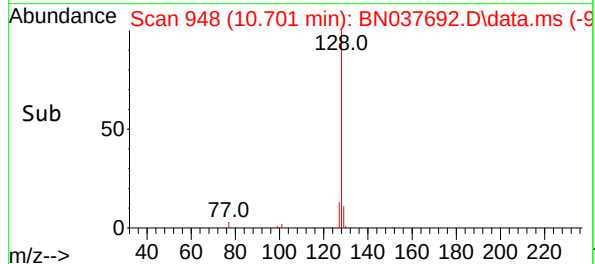
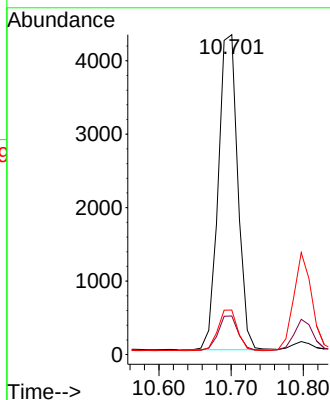
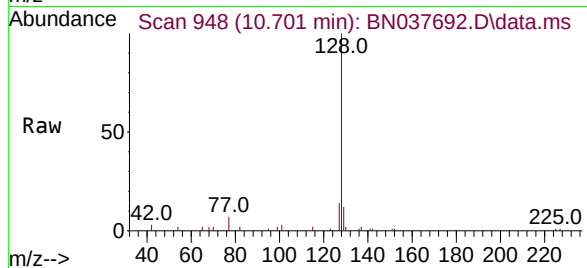
#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 805
Ion Ratio Lower Upper
128 100
129 12.1 9.1 13.7
127 13.9 10.9 16.3

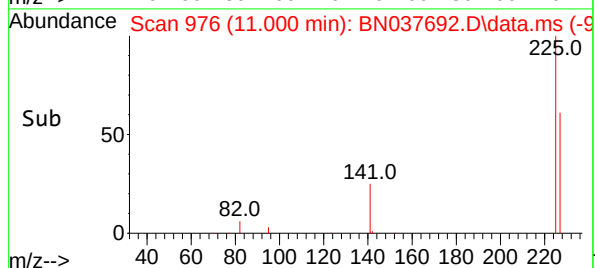
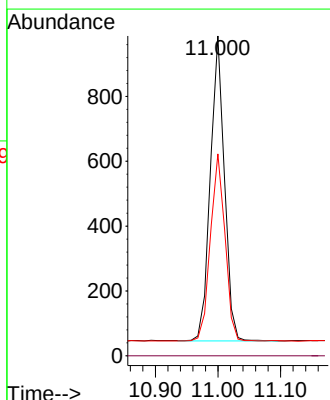
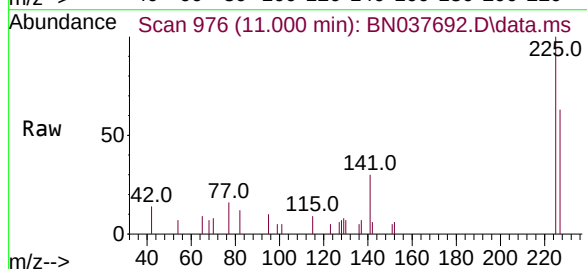
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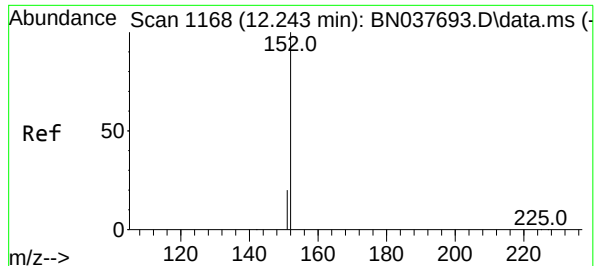
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

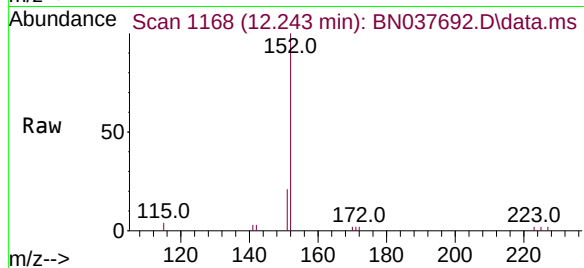
Tgt Ion:225 Resp: 1472
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

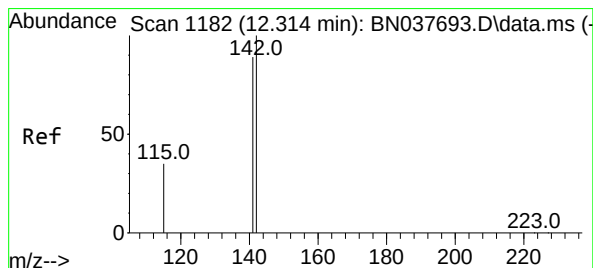
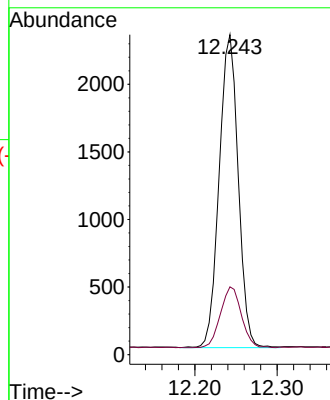
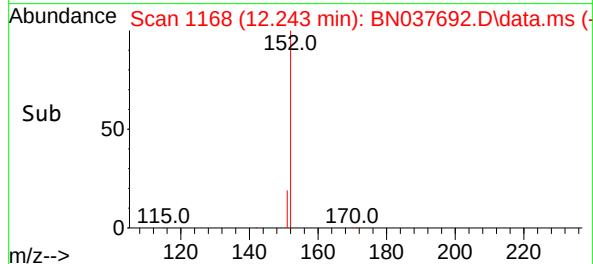
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



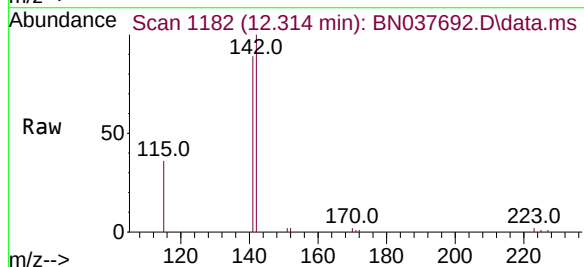
Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6

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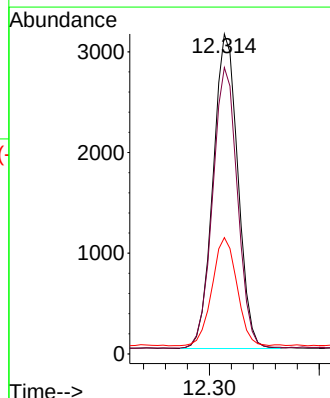
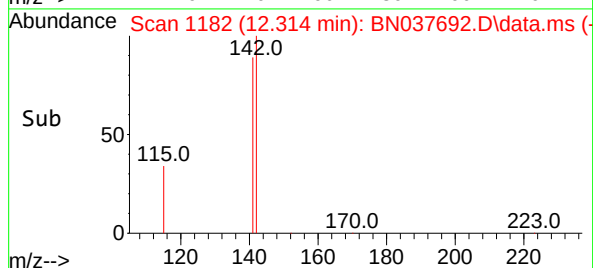
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

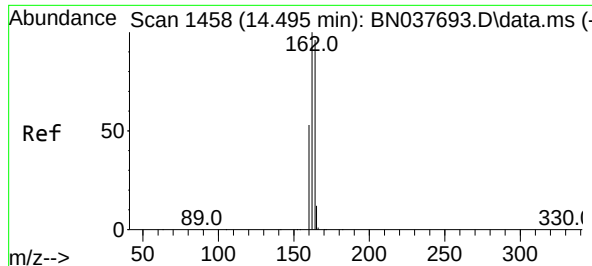


#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



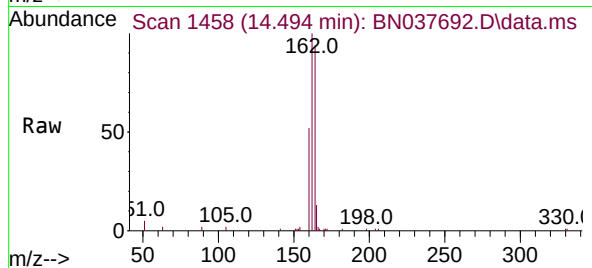
Tgt Ion:142 Resp: 4889
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 36.3 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

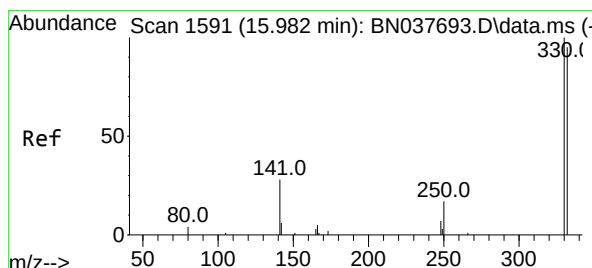
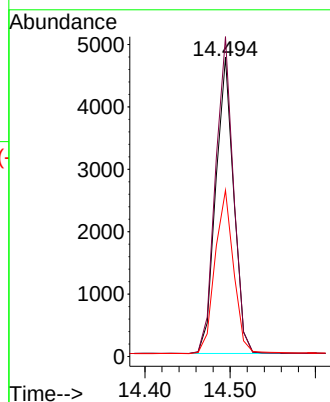
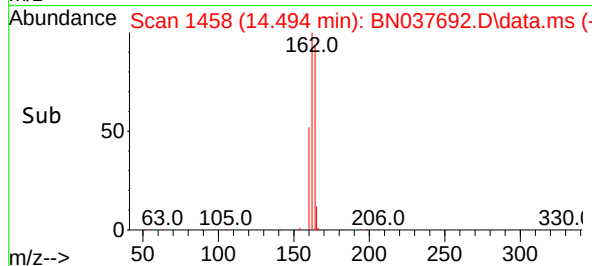
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



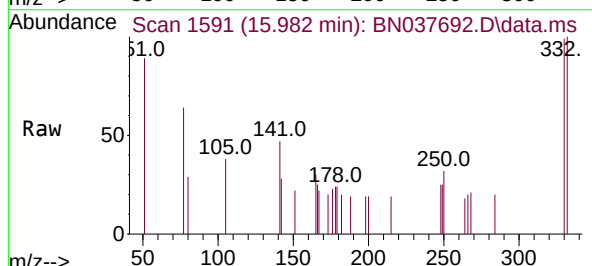
Tgt Ion:164 Resp: 6952
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 55.5 44.3 66.5

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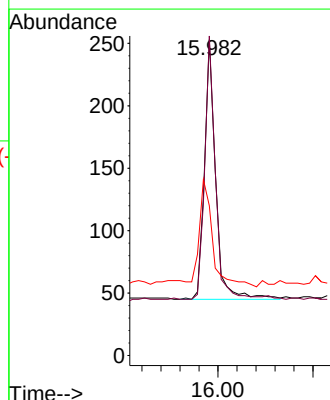
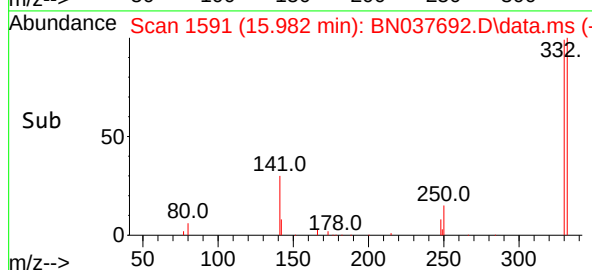
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

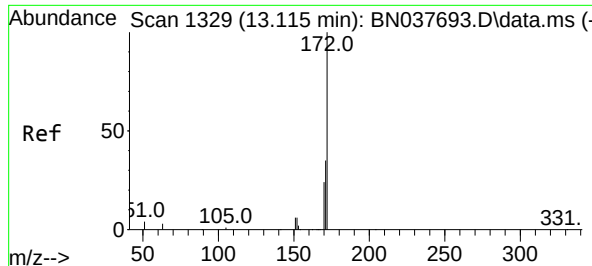


#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



Tgt Ion:330 Resp: 340
Ion Ratio Lower Upper
330 100
332 95.6 75.3 112.9
141 49.4 35.0 52.4





#15

2-Fluorobiphenyl

Concen: 0.199 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

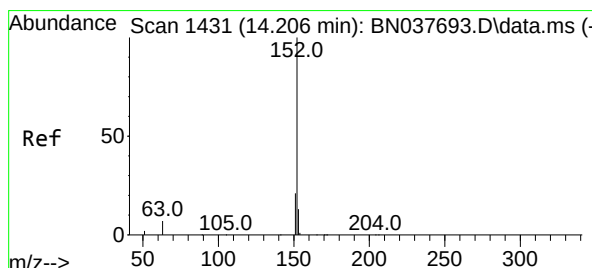
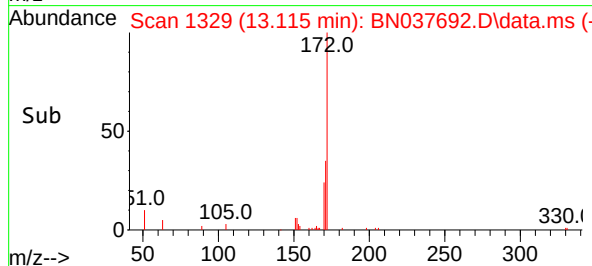
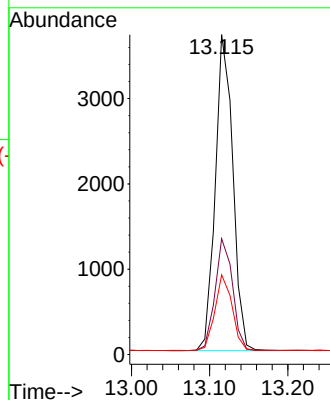
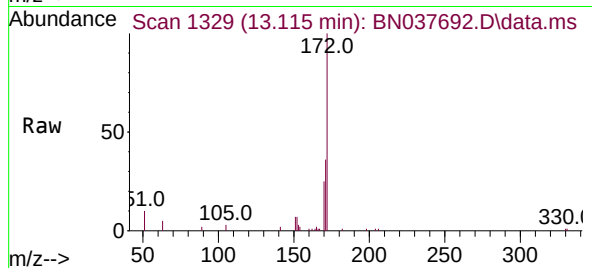
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8

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Supervised By :Jagrut Upadhyay 09/12/2025



#16

Acenaphthylene

Concen: 0.191 ng

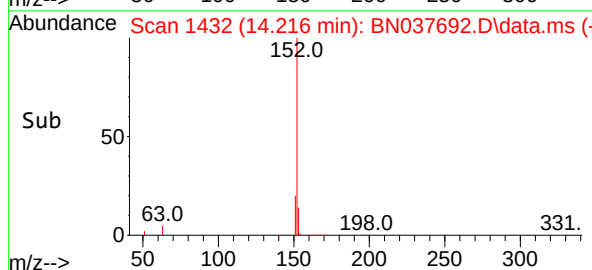
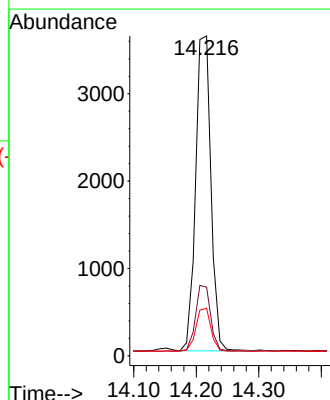
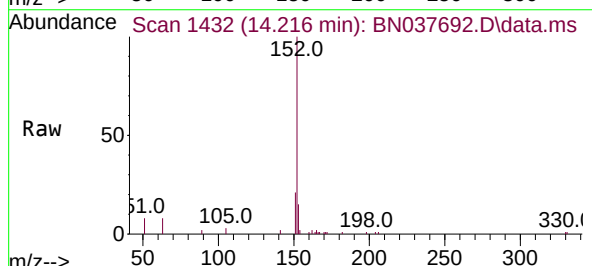
RT: 14.216 min Scan# 1432

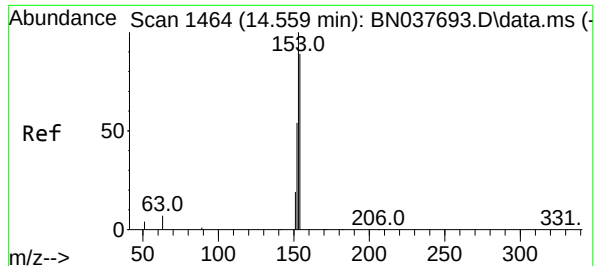
Delta R.T. 0.011 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2
153	13.8	10.4	15.6





#17

Acenaphthene

Concen: 0.193 ng

RT: 14.559 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

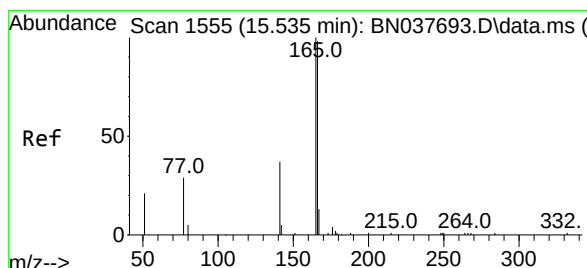
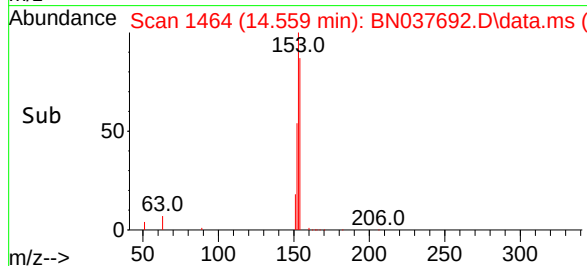
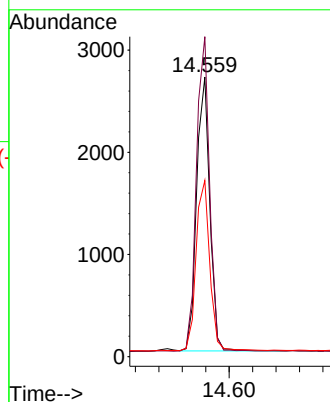
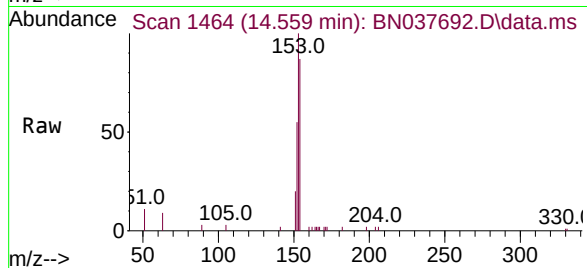
Tgt Ion:	154	Resp:	4168
Ion Ratio	Lower	Upper	
154	100		
153	114.9	89.8	134.8
152	64.4	50.2	75.2

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Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#18

Fluorene

Concen: 0.187 ng

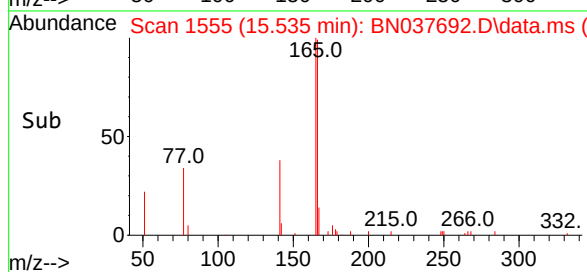
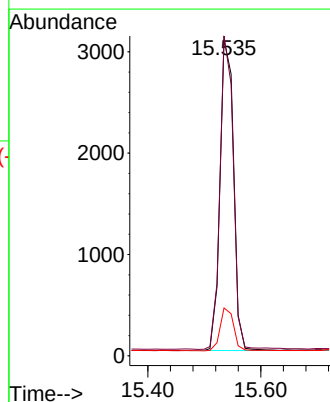
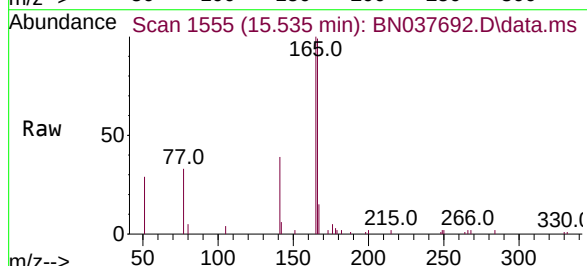
RT: 15.535 min Scan# 1555

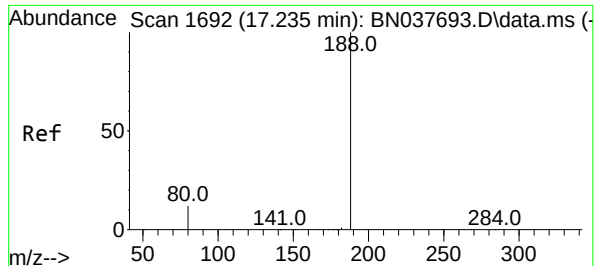
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	166	Resp:	4875
Ion Ratio	Lower	Upper	
166	100		
165	102.3	79.6	119.4
167	14.5	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

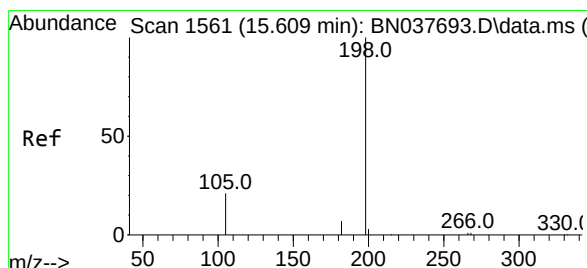
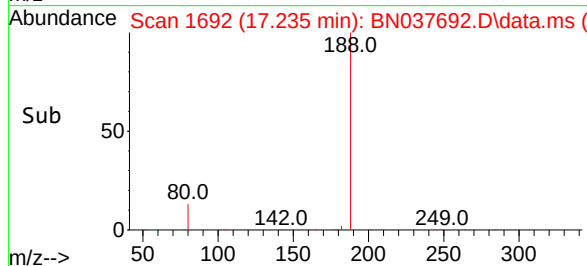
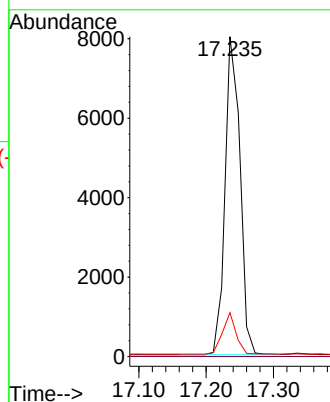
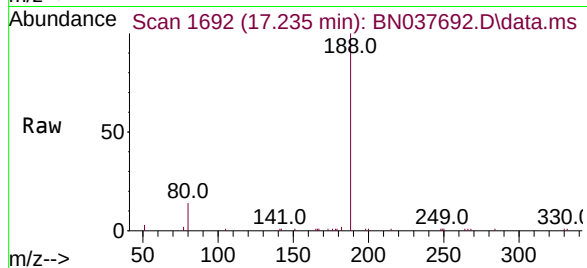
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	10.6	15.8

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Supervised By :Jagrut Upadhyay 09/12/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.175 ng

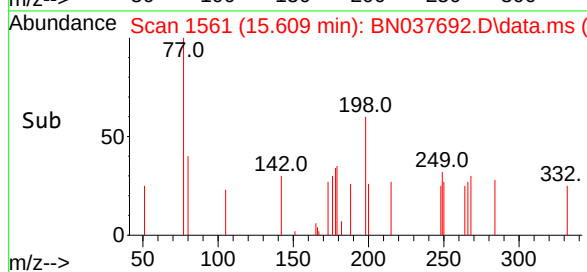
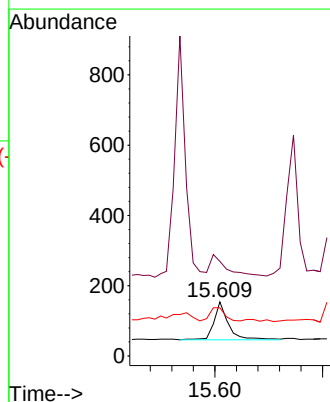
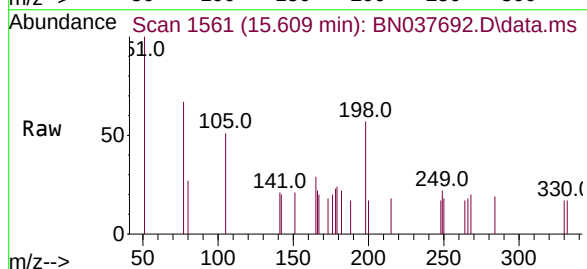
RT: 15.609 min Scan# 1561

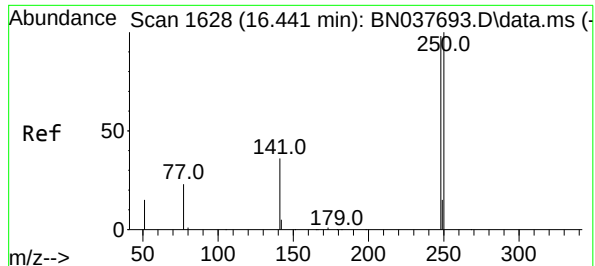
Delta R.T. 0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
198	100		
51	174.7	95.1	142.7#
105	89.0	53.8	80.6#





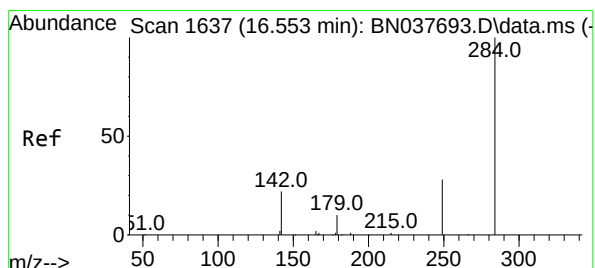
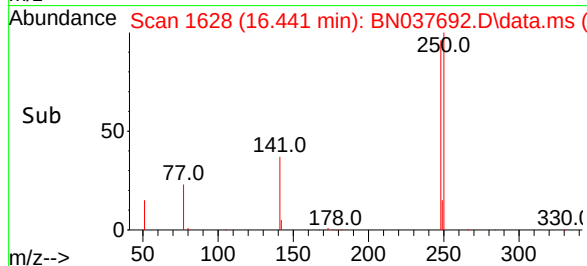
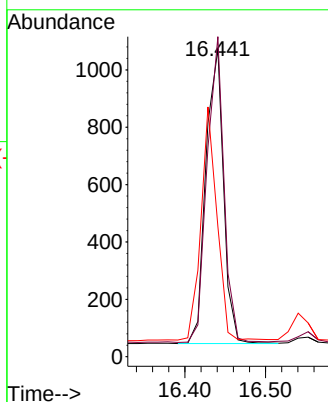
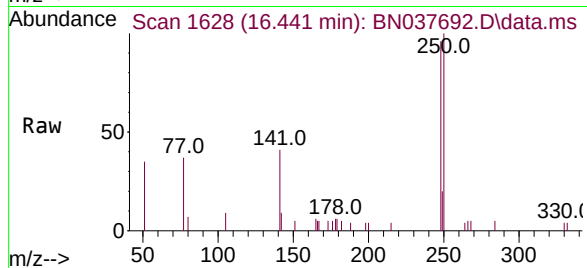
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1560
Ion Ratio Lower Upper
248 100
250 104.0 81.5 122.3
141 42.3 30.8 46.2

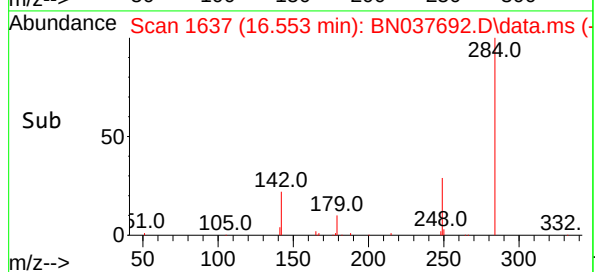
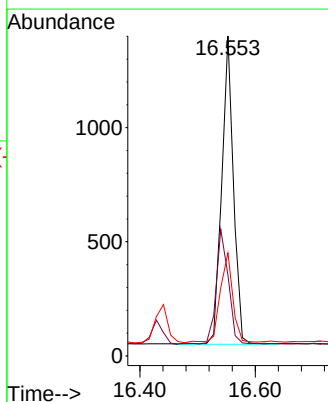
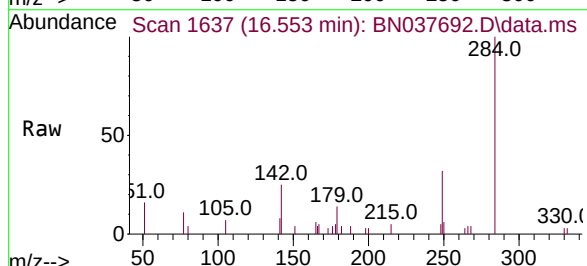
Manual Integrations
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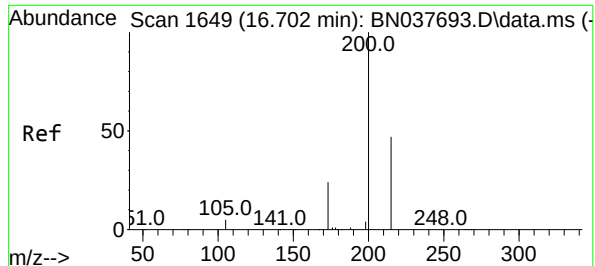
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:284 Resp: 1906
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 31.4 24.8 37.2





#23

Atrazine

Concen: 0.181 ng

RT: 16.702 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

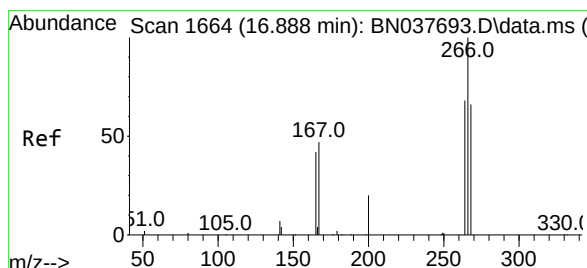
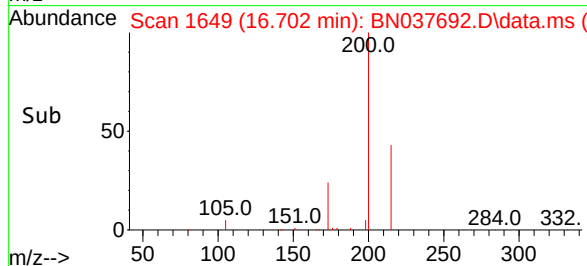
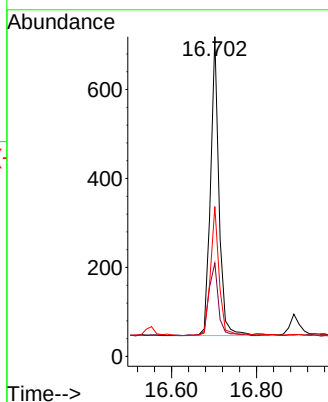
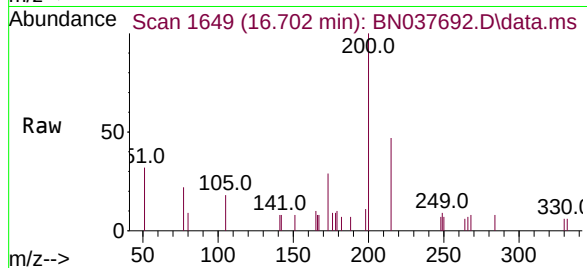
Tgt Ion:	200	Resp:	932
Ion Ratio	Lower	Upper	
200	100		
173	29.2	21.4	32.2
215	46.9	39.2	58.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#24

Pentachlorophenol

Concen: 0.171 ng

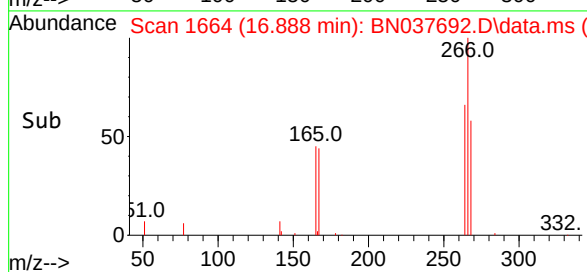
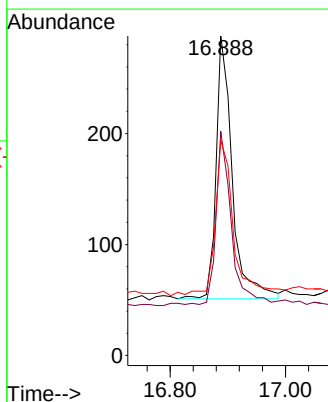
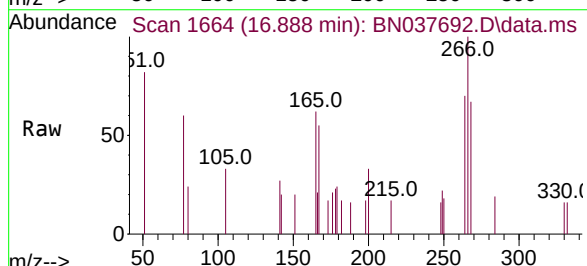
RT: 16.888 min Scan# 1664

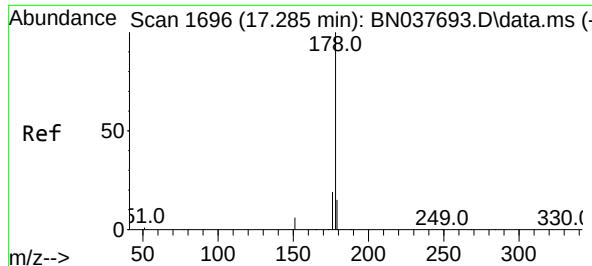
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	266	Resp:	461
Ion Ratio	Lower	Upper	
266	100		
264	61.6	51.6	77.4
268	67.5	53.2	79.8





#25

Phenanthrene

Concen: 0.193 ng

RT: 17.285 min Scan# 1696

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

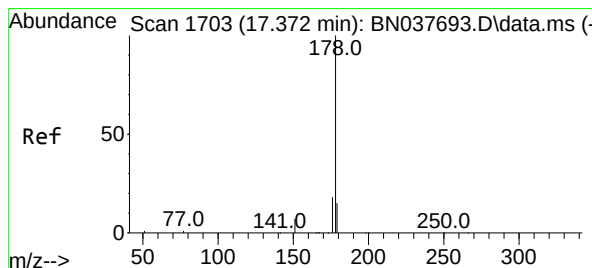
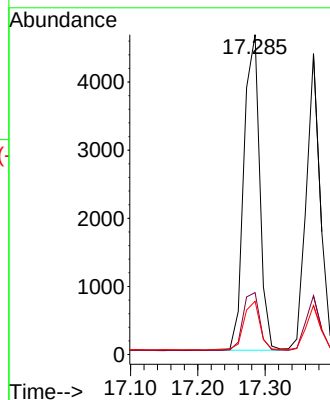
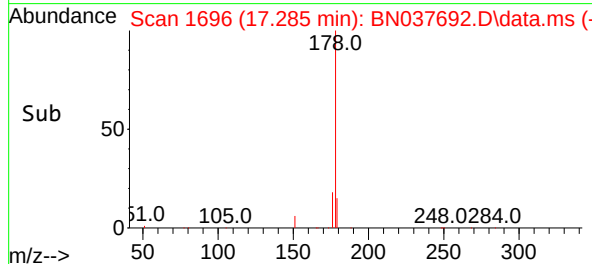
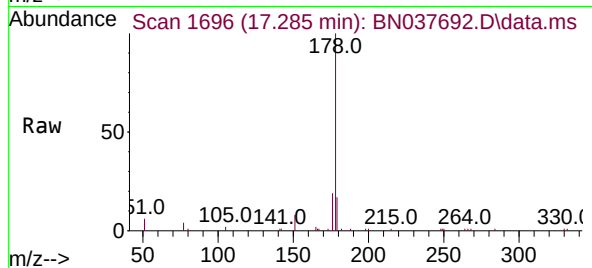
SSTDIC0.2

Tgt Ion:	178	Resp:	7526
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.3	22.9
179	15.7	12.2	18.2

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#26

Anthracene

Concen: 0.185 ng

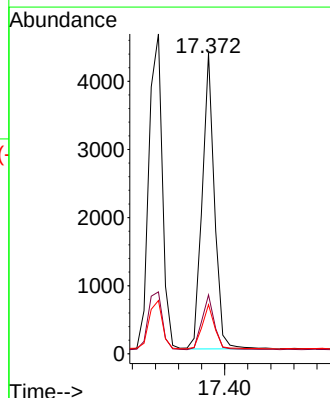
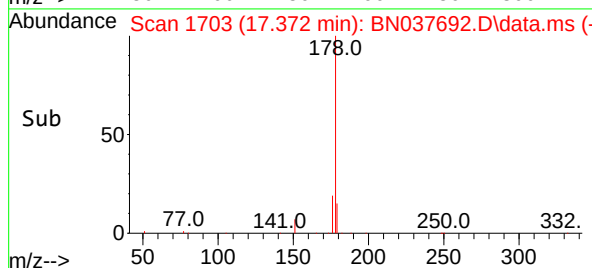
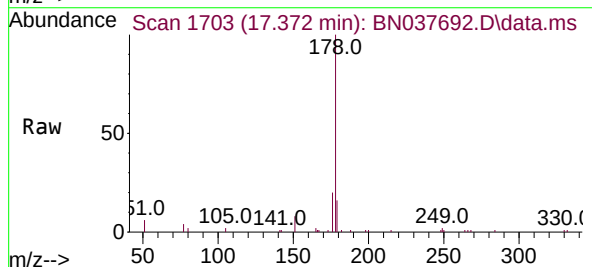
RT: 17.372 min Scan# 1703

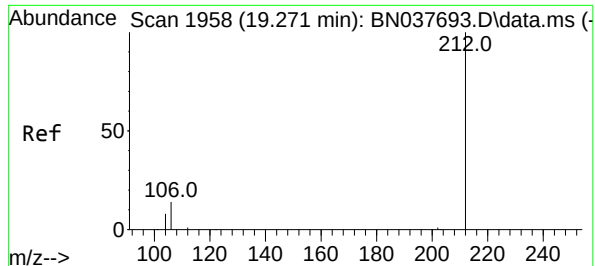
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	178	Resp:	6375
Ion Ratio	Lower	Upper	
178	100		
176	19.0	14.6	22.0
179	15.4	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.177 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

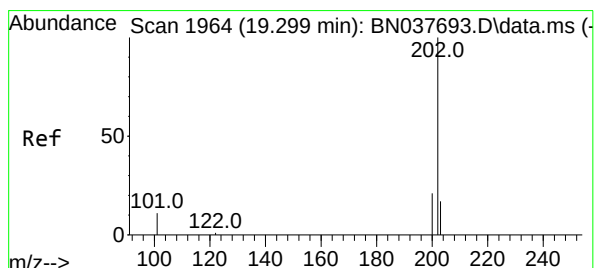
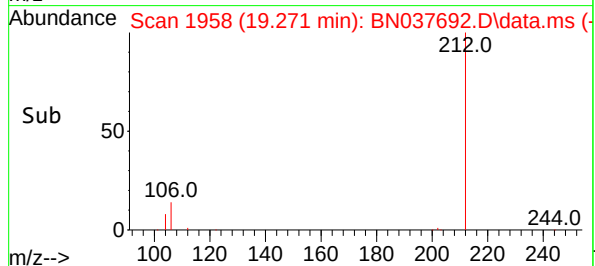
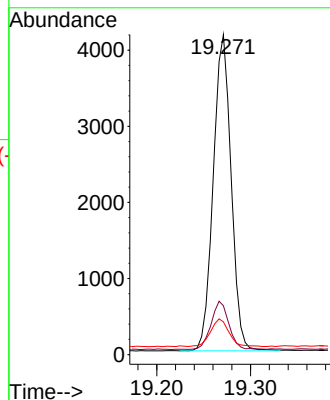
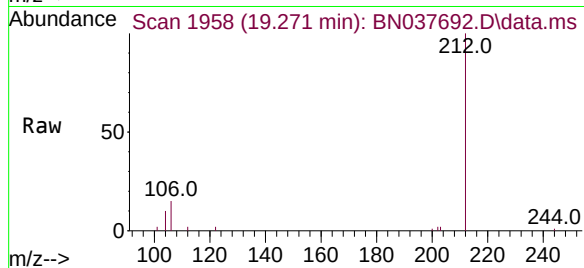
Tgt Ion:	212	Resp:	5492
Ion	Ratio	Lower	Upper
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3

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Supervised By :Jagrut Upadhyay 09/12/2025



#28

Fluoranthene

Concen: 0.177 ng

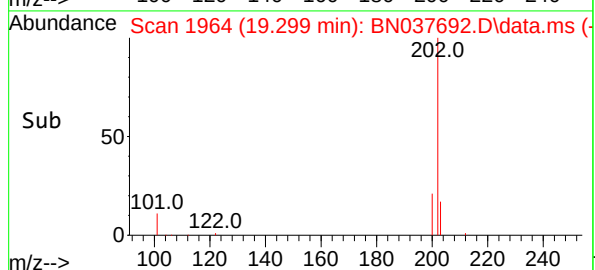
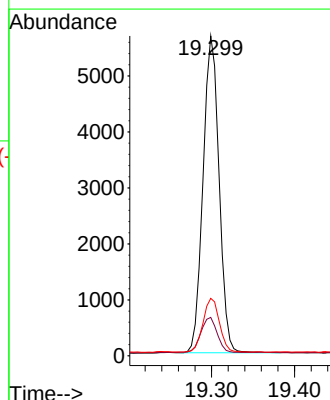
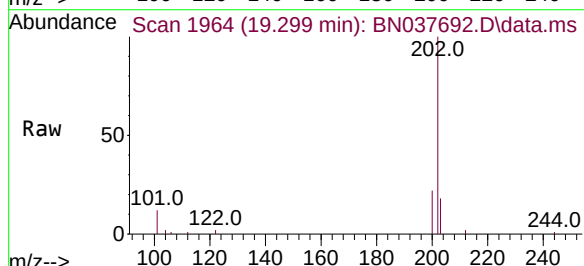
RT: 19.299 min Scan# 1964

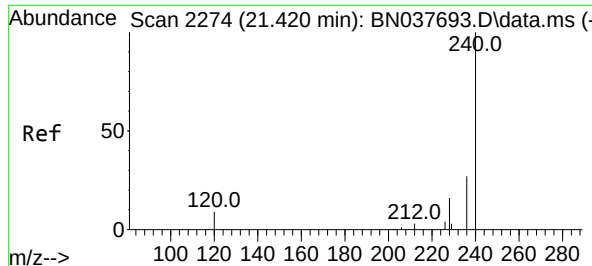
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	202	Resp:	7577
Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

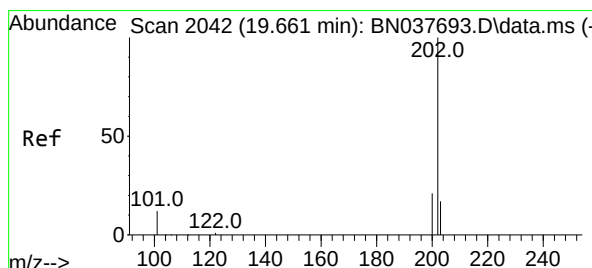
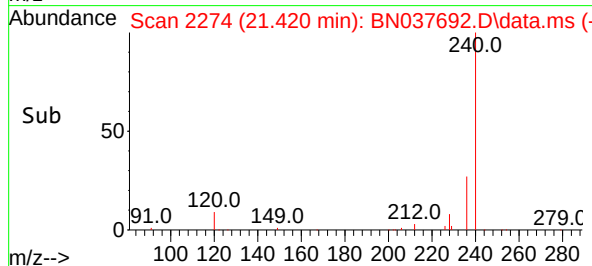
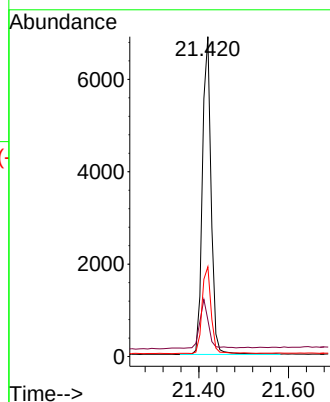
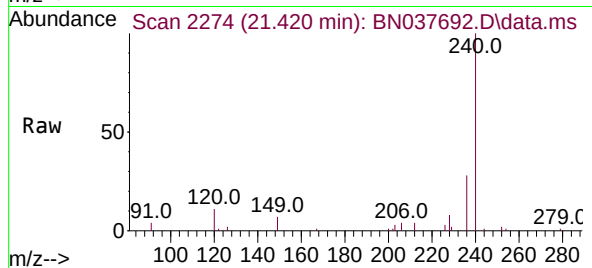
ClientSampleId :

SSTDICC0.2

Tgt Ion:	240	Resp:	9324
Ion Ratio	Lower	Upper	
240	100		
120	11.4	9.2	13.8
236	28.1	22.6	33.8

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#30

Pyrene

Concen: 0.207 ng

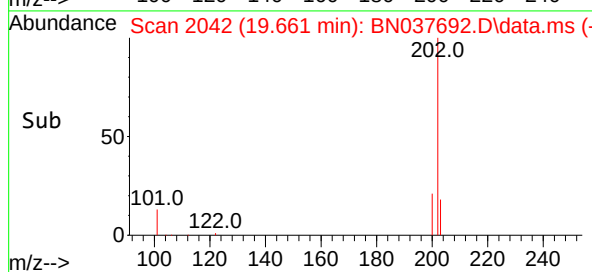
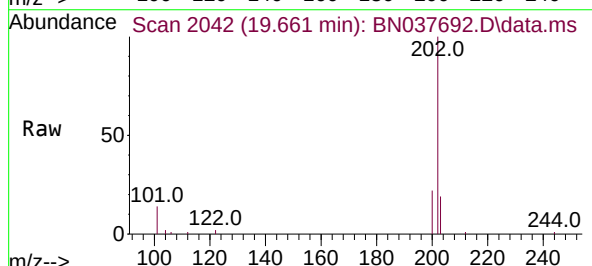
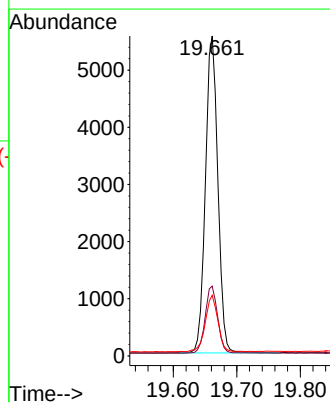
RT: 19.661 min Scan# 2042

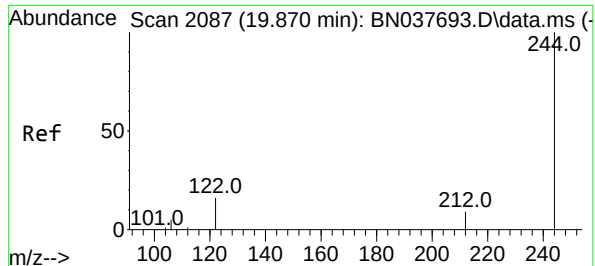
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	202	Resp:	7543
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	18.3	14.3	21.5





#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

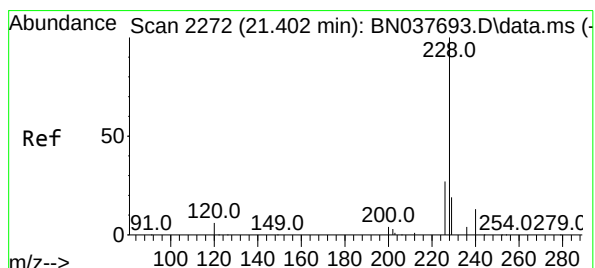
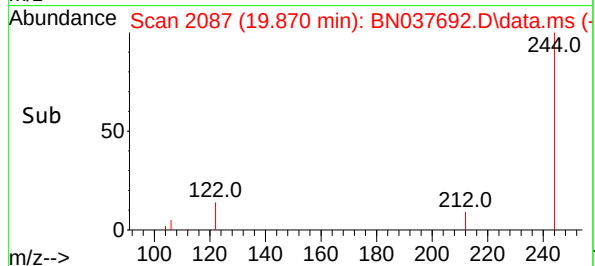
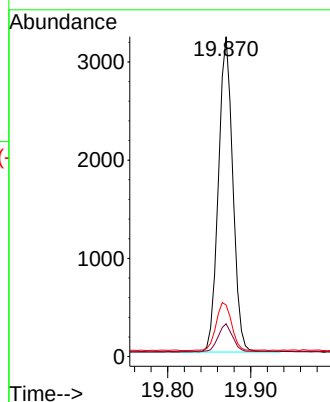
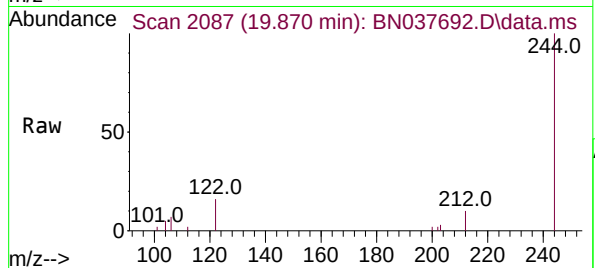
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8

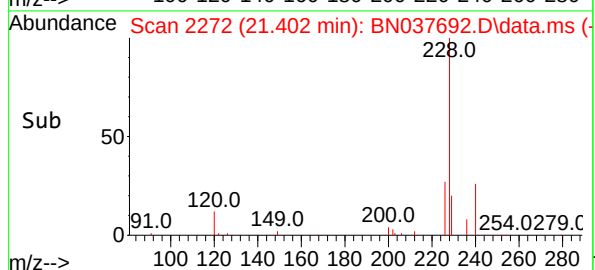
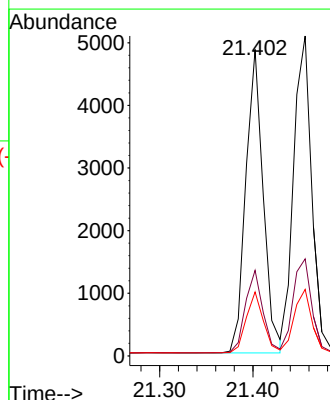
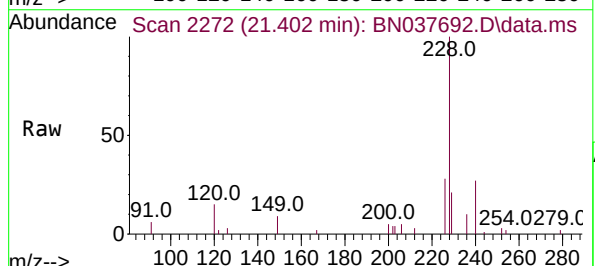
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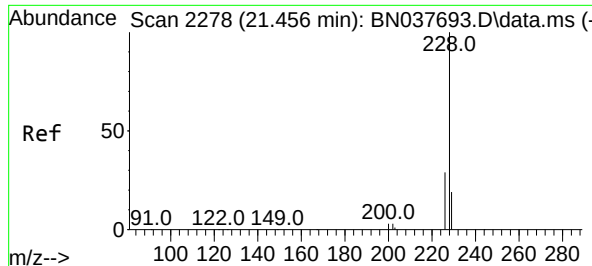
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.8	15.8	23.6





#33

Chrysene

Concen: 0.199 ng

RT: 21.456 min Scan# 2278

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 6953

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

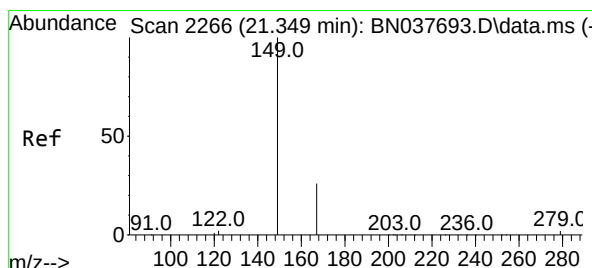
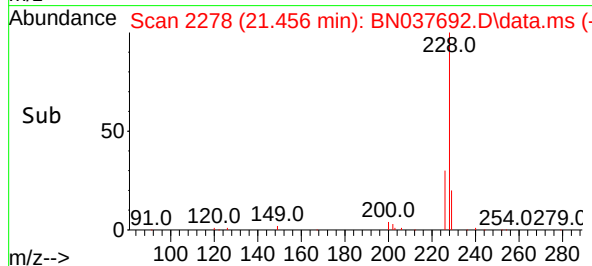
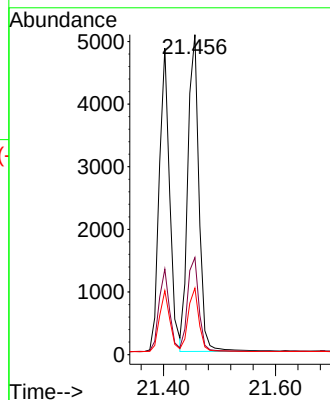
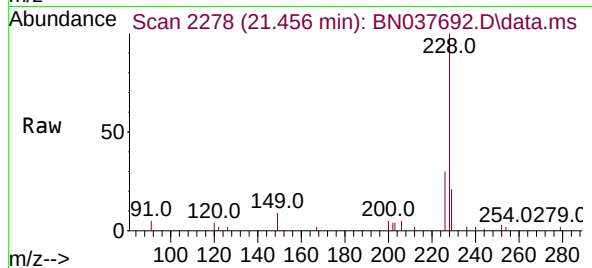
229 20.8 15.9 23.9

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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.213 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

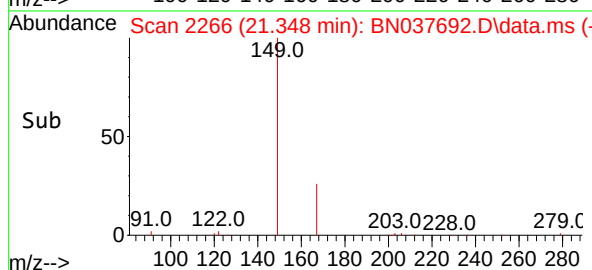
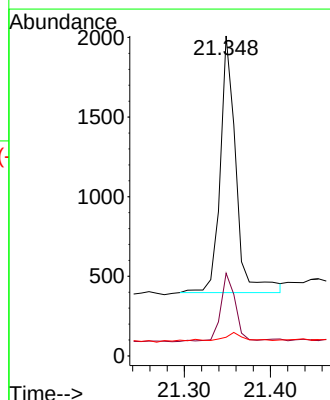
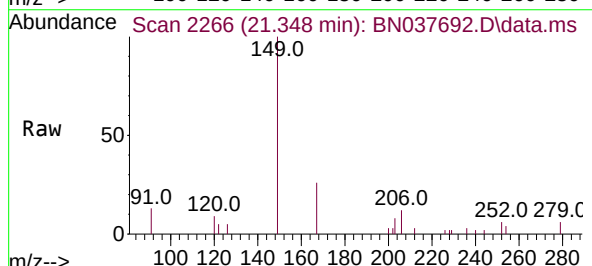
Tgt Ion:149 Resp: 2049

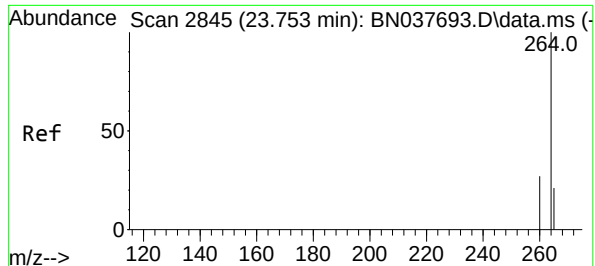
Ion Ratio Lower Upper

149 100

167 24.7 20.8 31.2

279 3.1 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. -0.000 min

Lab File: BN037692.D

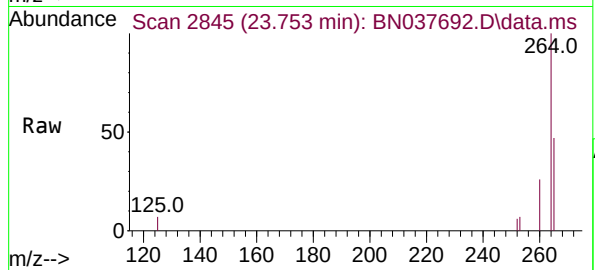
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

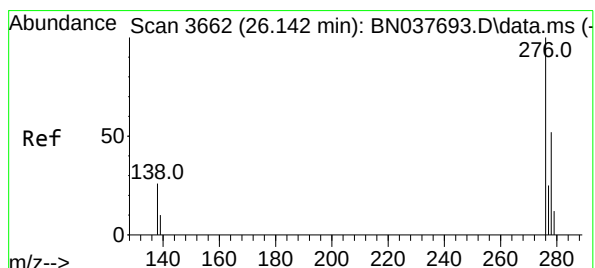
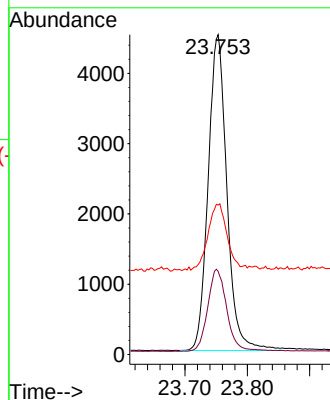
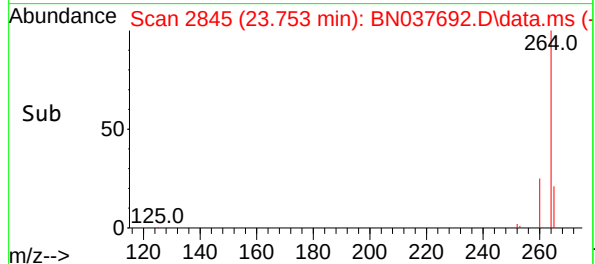


Tgt Ion:	264	Resp:	9364
Ion Ratio	Lower	Upper	
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2

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#36

Indeno(1,2,3-cd)pyrene

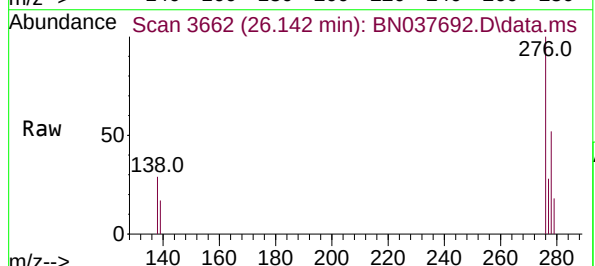
Concen: 0.177 ng

RT: 26.142 min Scan# 3662

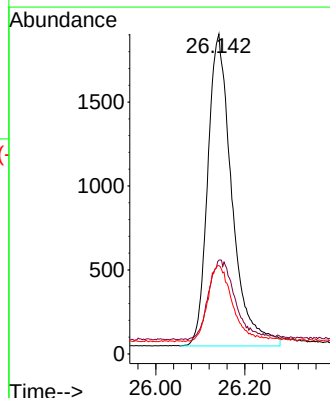
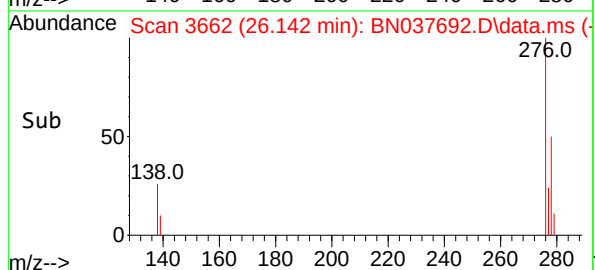
Delta R.T. -0.000 min

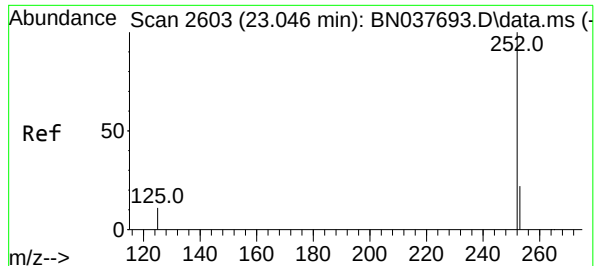
Lab File: BN037692.D

Acq: 11 Sep 2025 10:32



Tgt Ion:	276	Resp:	6982
Ion Ratio	Lower	Upper	
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

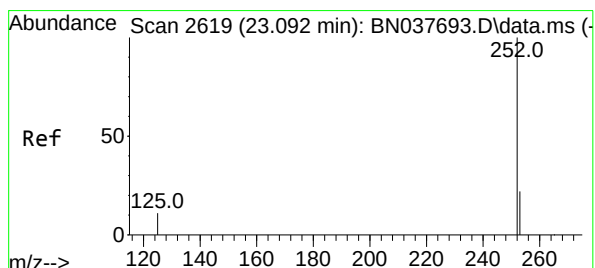
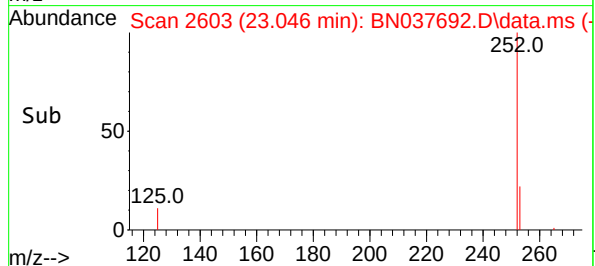
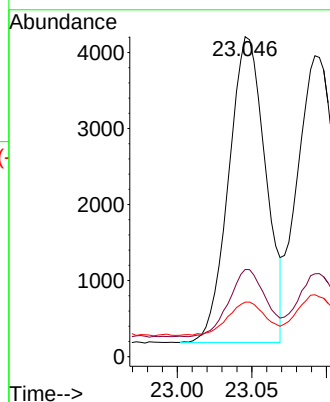
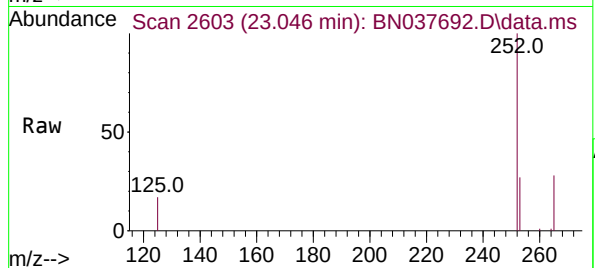
Tgt Ion:	252	Resp:	690
Ion Ratio	Lower	Upper	
252	100		
253	27.3	19.4	29.2
125	17.0	11.2	16.8

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#38

Benzo(k)fluoranthene

Concen: 0.192 ng m

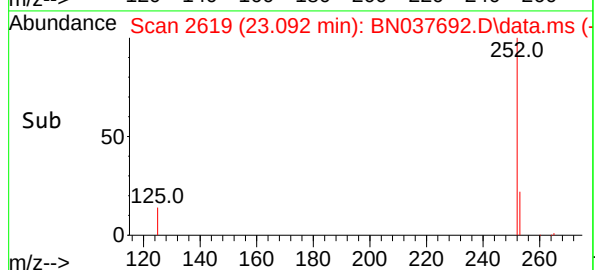
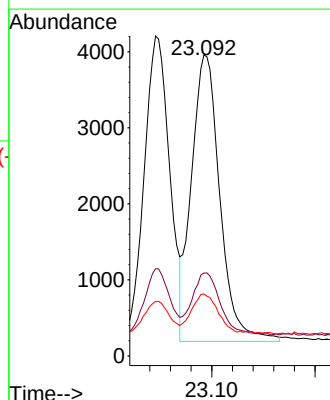
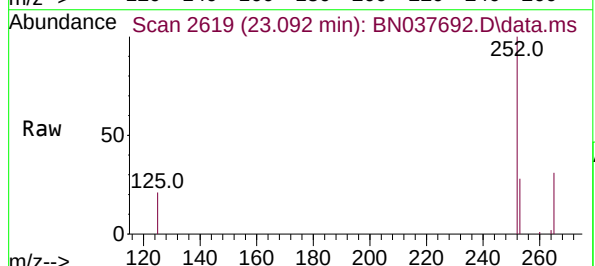
RT: 23.092 min Scan# 2619

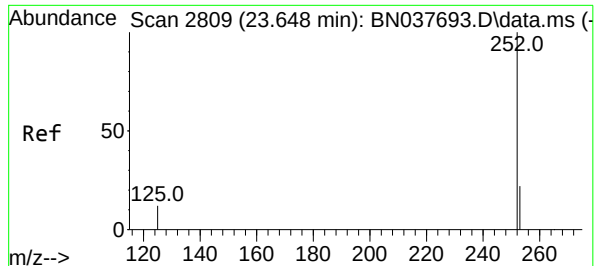
Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	252	Resp:	7226
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.4	29.0
125	20.6	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.186 ng

RT: 23.651 min Scan# 2809

Delta R.T. 0.003 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

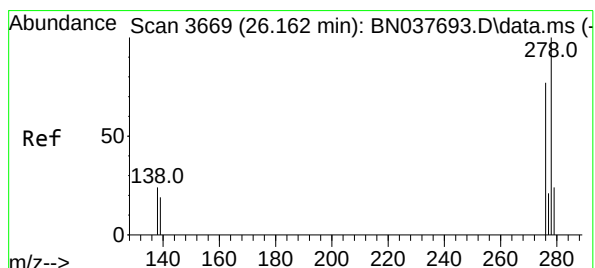
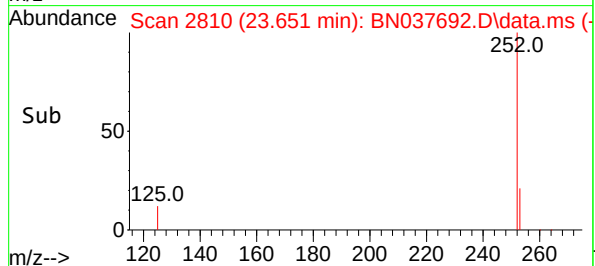
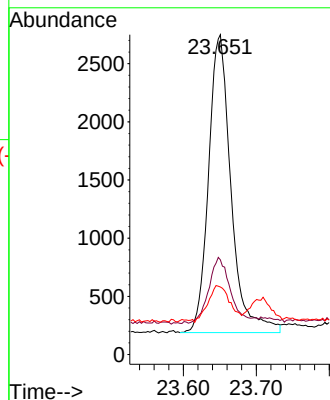
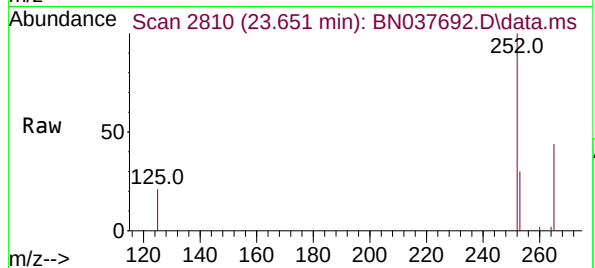
Tgt Ion:	252	Resp:	5489
Ion Ratio	Lower	Upper	
252	100		
253	29.6	20.8	31.2
125	21.1	13.9	20.9

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/12/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

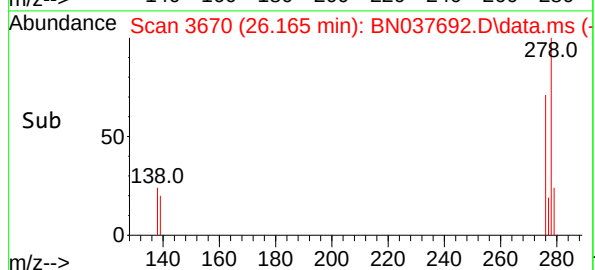
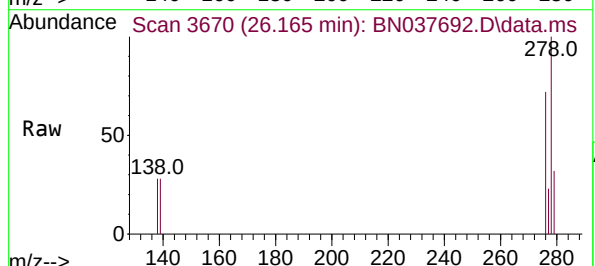
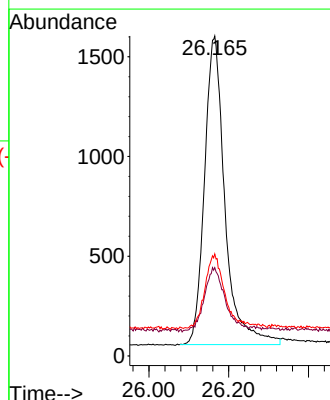
RT: 26.165 min Scan# 3670

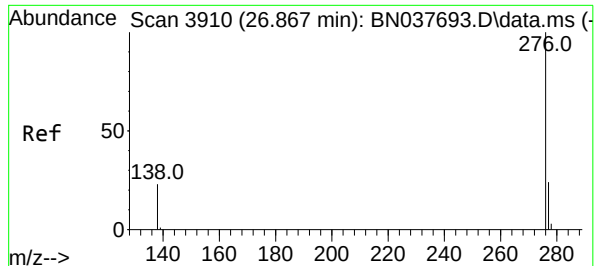
Delta R.T. 0.003 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Tgt Ion:	278	Resp:	5503
Ion Ratio	Lower	Upper	
278	100		
139	27.6	17.8	26.6
279	31.9	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.186 ng

RT: 26.864 min Scan# 39

Delta R.T. -0.003 min

Lab File: BN037692.D

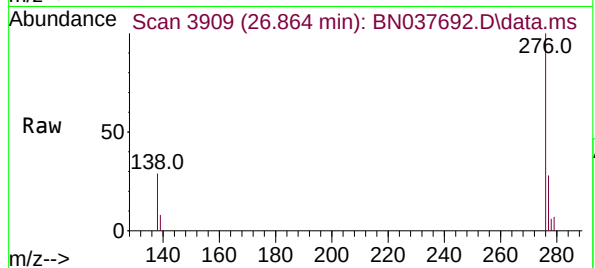
Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 6566

Ion Ratio Lower Upper

276 100

277 27.6 20.6 31.0

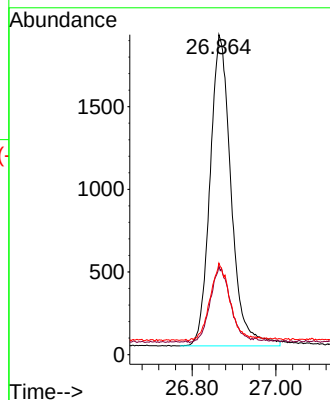
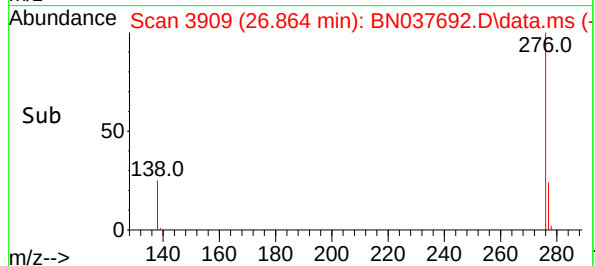
138 28.6 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037693.D
 Acq On : 11 Sep 2025 11:08
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

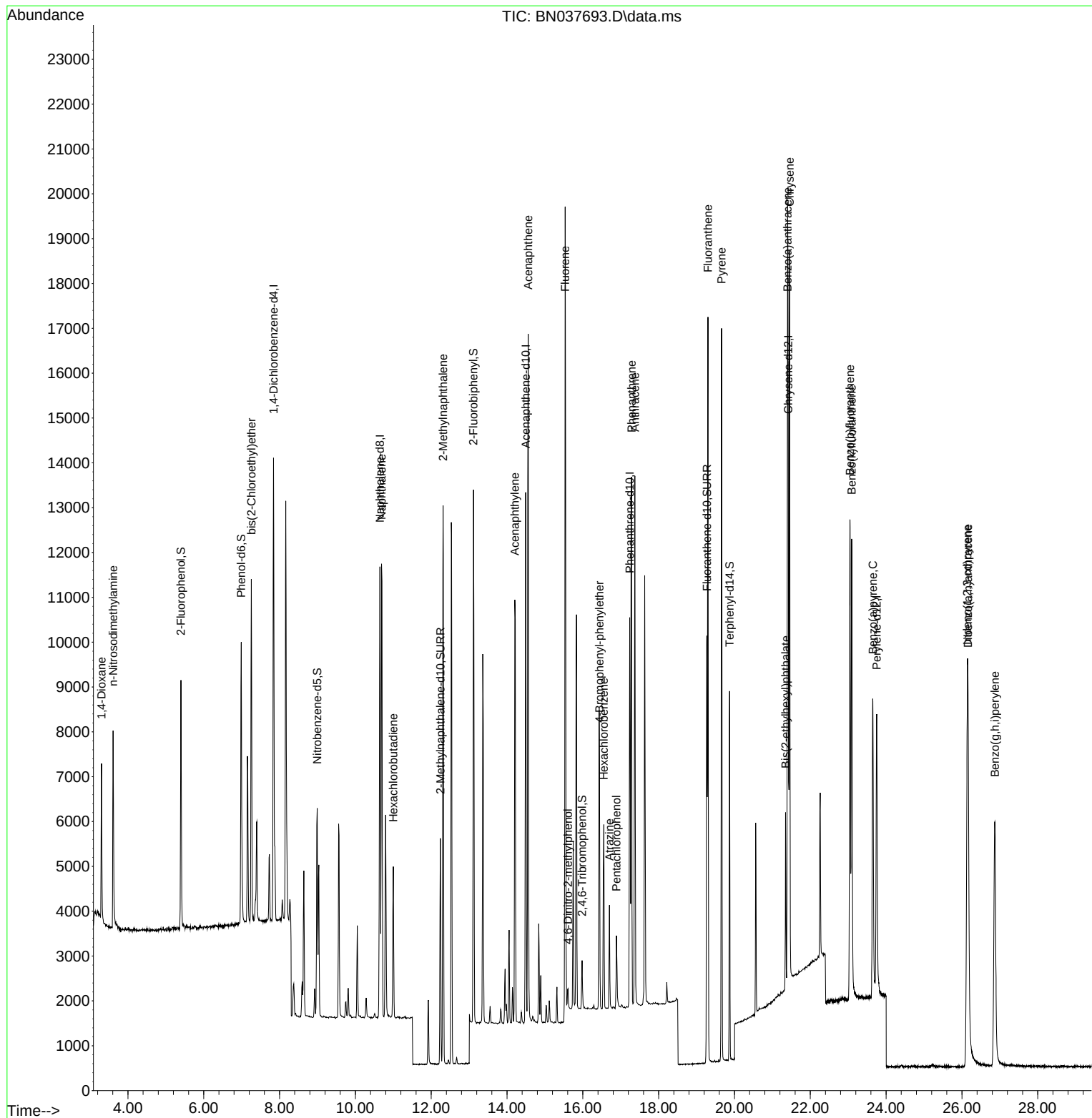
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	4992	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13249	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6204	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11263	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9368	0.400	ng	0.00
35) Perylene-d12	23.753	264	8965	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	4452	0.388	ng	0.00
5) Phenol-d6	6.988	99	5771	0.388	ng	0.00
8) Nitrobenzene-d5	8.993	82	3770	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	6602	0.376	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	625	0.386	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10228	0.394	ng	0.00
27) Fluoranthene-d10	19.271	212	10530	0.372	ng	0.00
31) Terphenyl-d14	19.870	244	7507	0.395	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	2106	0.405	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.608	42	2814	0.414	ng	99
6) bis(2-Chloroethyl)ether	7.255	93	5343	0.402	ng	100
9) Naphthalene	10.690	128	14229	0.393	ng	100
10) Hexachlorobutadiene	11.000	225	2615	0.399	ng	# 100
12) 2-Methylnaphthalene	12.314	142	8728	0.390	ng	100
16) Acenaphthylene	14.206	152	11064	0.389	ng	100
17) Acenaphthene	14.559	154	7540	0.392	ng	100
18) Fluorene	15.535	166	8938	0.384	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	372	0.357	ng	100
21) 4-Bromophenyl-phenylether	16.441	248	2827	0.385	ng	100
22) Hexachlorobenzene	16.553	284	3312	0.392	ng	100
23) Atrazine	16.702	200	1707	0.365	ng	100
24) Pentachlorophenol	16.888	266	839	0.342	ng	100
25) Phenanthrene	17.285	178	13778	0.389	ng	100
26) Anthracene	17.372	178	12049	0.384	ng	100
28) Fluoranthene	19.299	202	14751	0.379	ng	100
30) Pyrene	19.661	202	14587	0.398	ng	100
32) Benzo(a)anthracene	21.402	228	12621	0.386	ng	100
33) Chrysene	21.456	228	14018	0.400	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	3520	0.363	ng	100
36) Indeno(1,2,3-cd)pyrene	26.142	276	13835	0.367	ng	100
37) Benzo(b)fluoranthene	23.046	252	13935	0.395	ng	100
38) Benzo(k)fluoranthene	23.092	252	13659	0.379	ng	100
39) Benzo(a)pyrene	23.648	252	10766	0.381	ng	100
40) Dibenzo(a,h)anthracene	26.162	278	10852	0.361	ng	100
41) Benzo(g,h,i)perylene	26.867	276	13009	0.385	ng	100

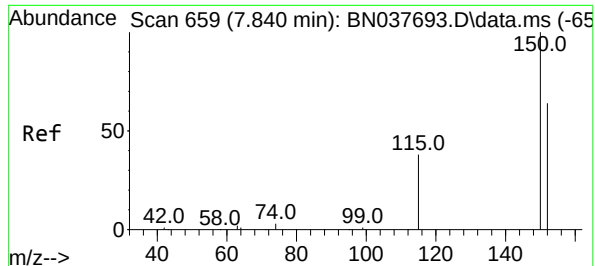
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037693.D
Acq On : 11 Sep 2025 11:08
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 11 14:06:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

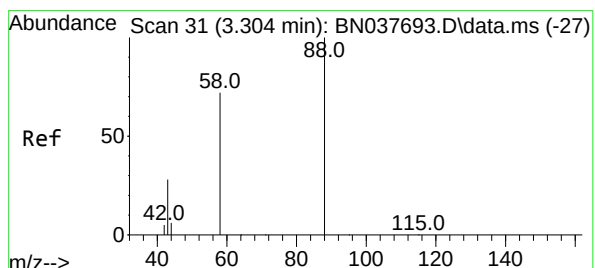
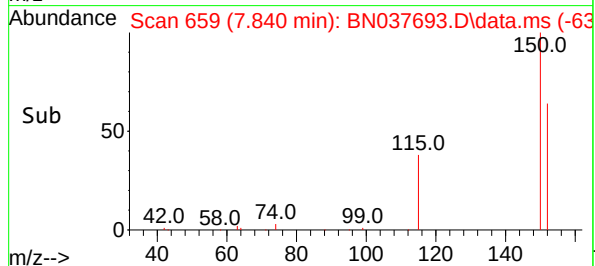
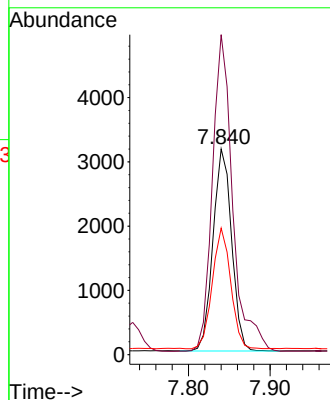
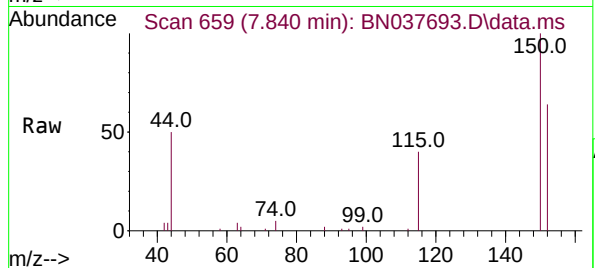




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

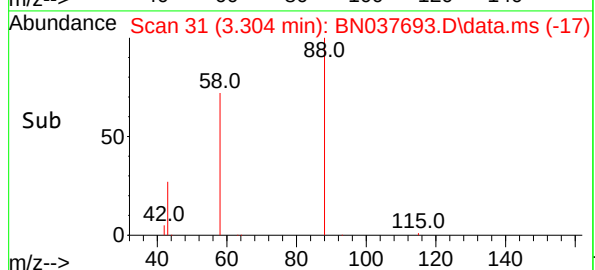
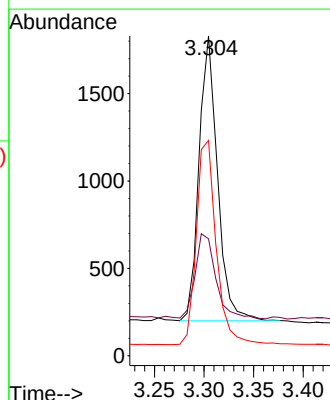
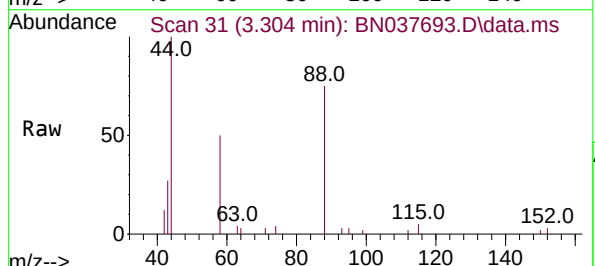
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

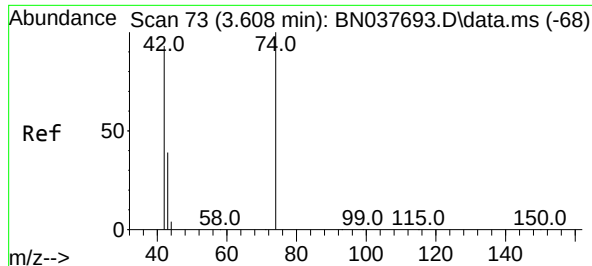
Tgt Ion:152 Resp: 4992
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 61.5 49.2 73.8



#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 88 Resp: 2106
Ion Ratio Lower Upper
88 100
43 33.5 26.8 40.2
58 77.6 61.9 92.9

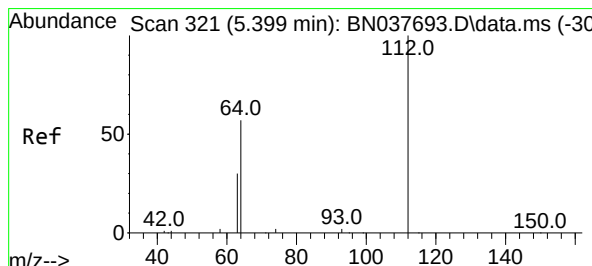
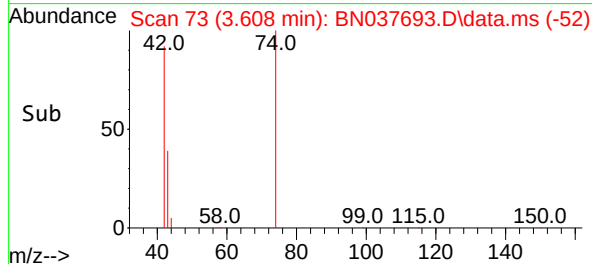
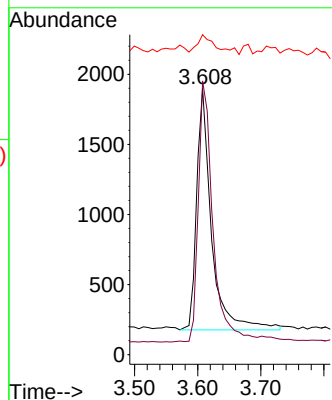
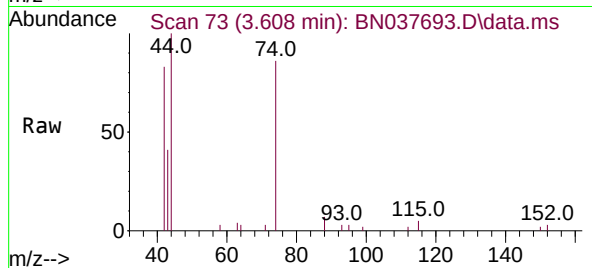




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

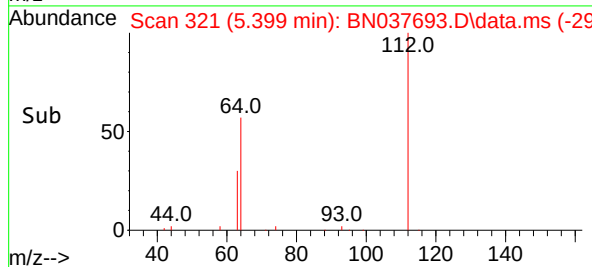
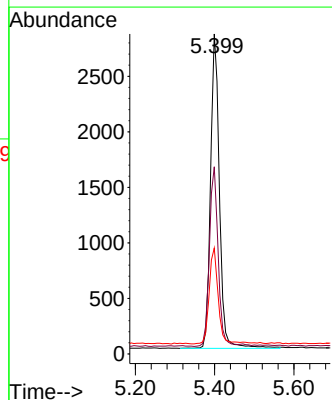
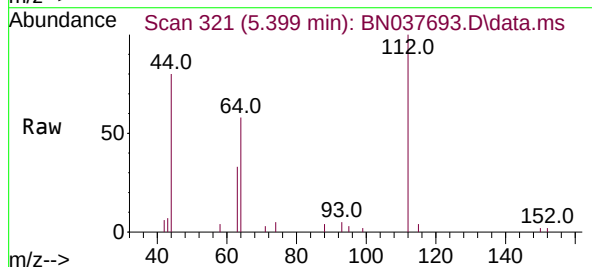
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

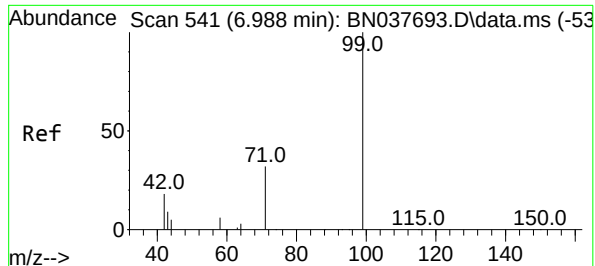
Tgt Ion: 42 Resp: 2814
Ion Ratio Lower Upper
42 100
74 106.5 86.0 129.0
44 10.4 8.4 12.6



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 112 Resp: 4452
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 30.9 24.7 37.1

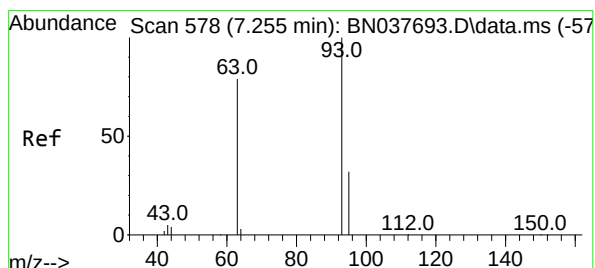
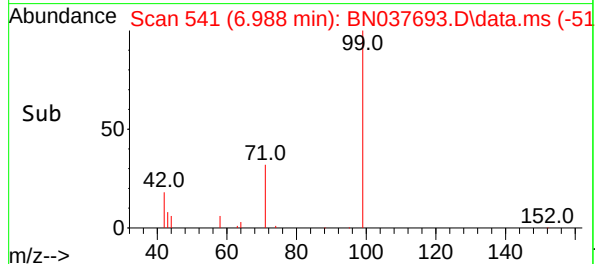
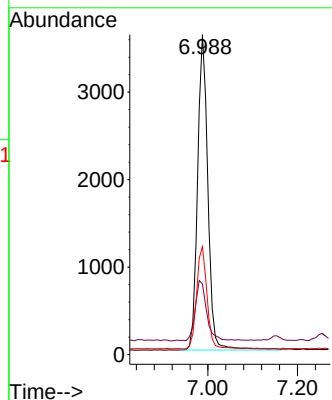
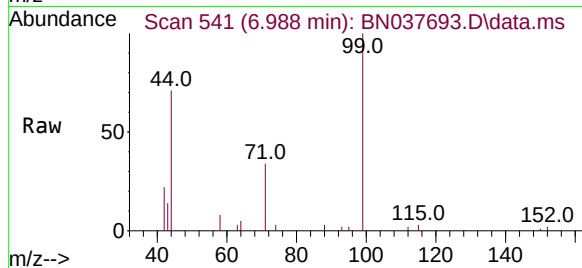




#5
Phenol-d6
Concen: 0.388 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

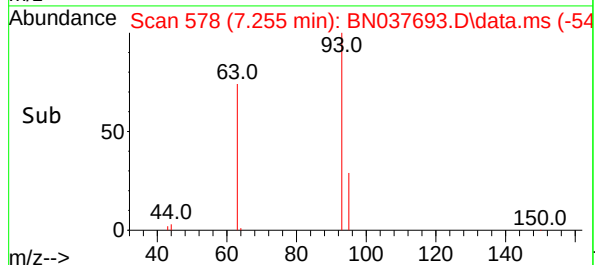
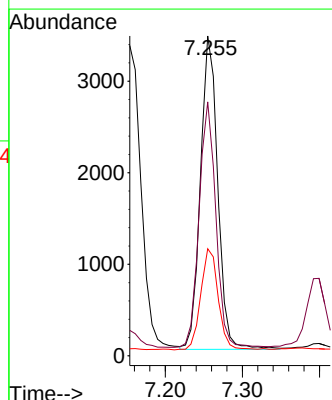
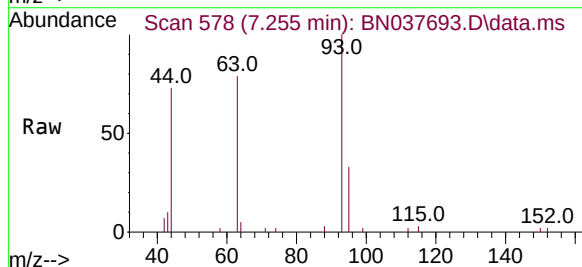
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

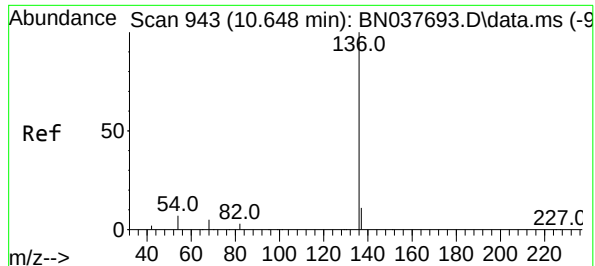
Tgt Ion: 99 Resp: 5771
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.4 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion: 93 Resp: 5343
Ion Ratio Lower Upper
93 100
63 75.7 60.6 90.8
95 32.5 26.0 39.0

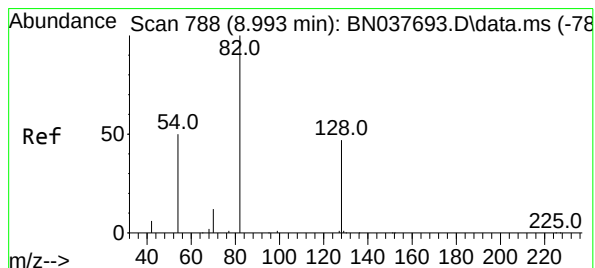
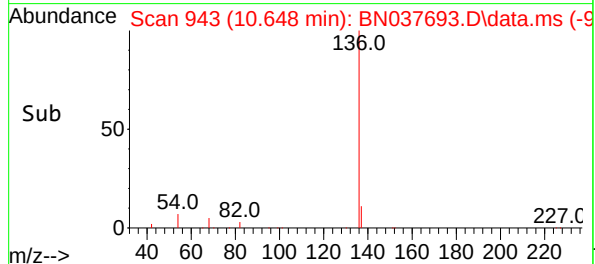
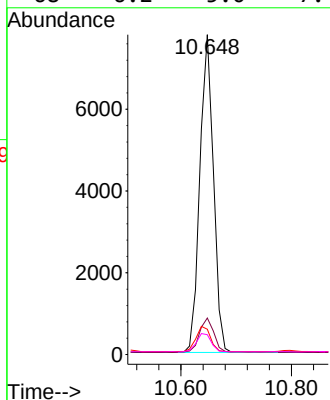
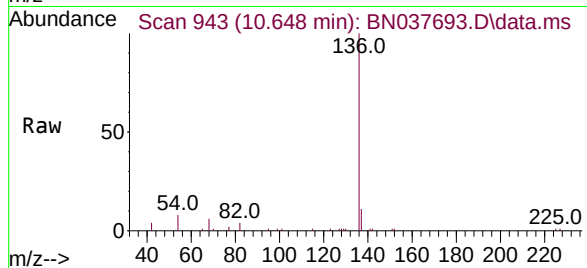




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

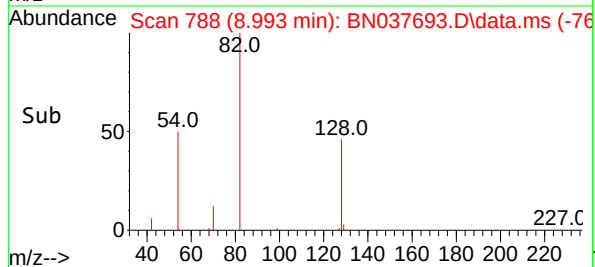
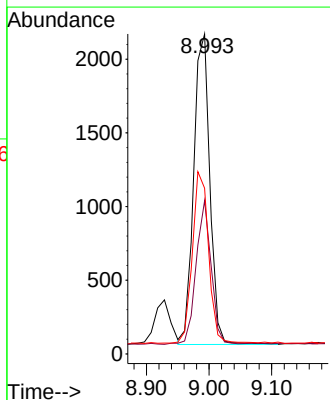
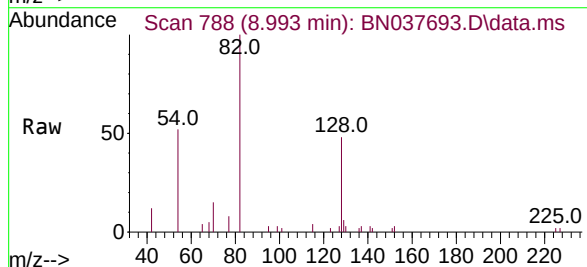
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

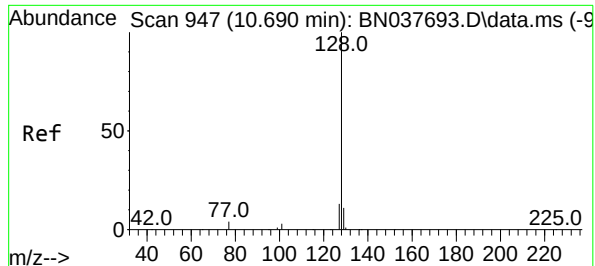
Tgt Ion:	136	Resp:	13249
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.9	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:	82	Resp:	3770
Ion	Ratio	Lower	Upper
82	100		
128	47.9	38.3	57.5
54	51.8	41.4	62.2

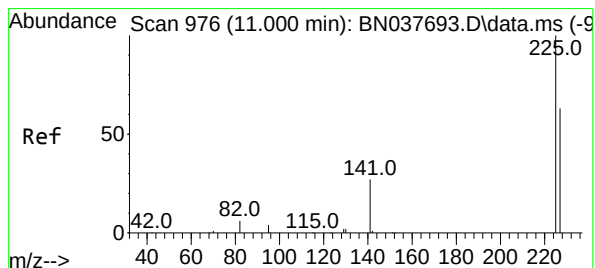
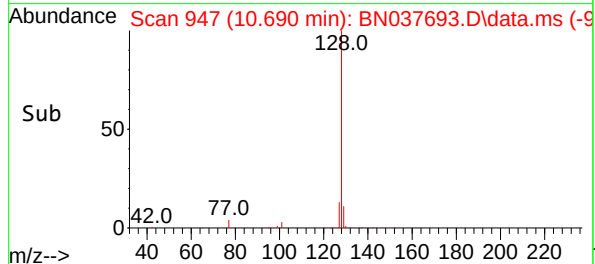
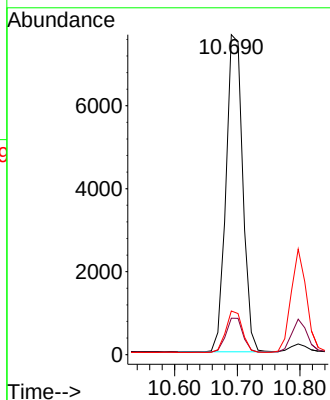
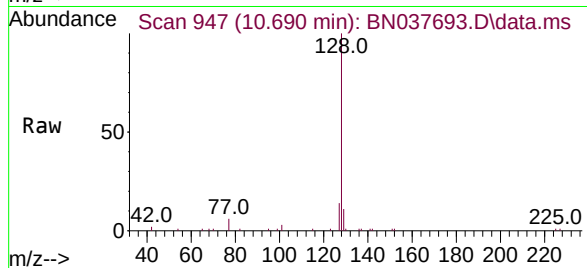




#9
Naphthalene
Concen: 0.393 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

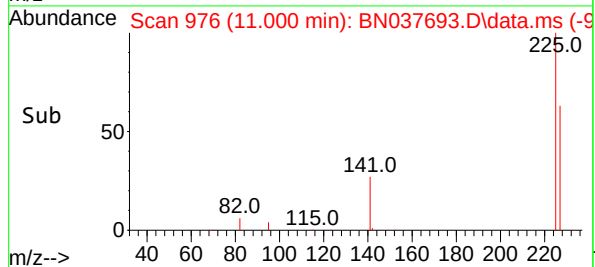
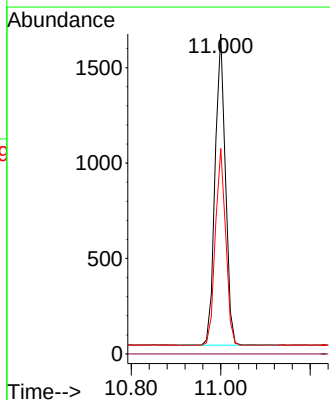
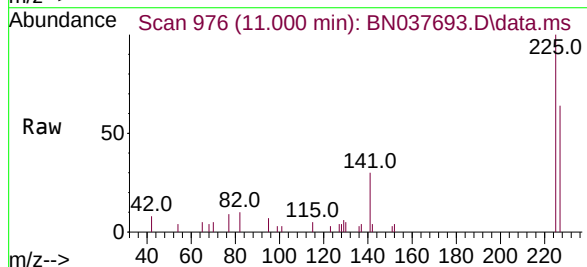
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

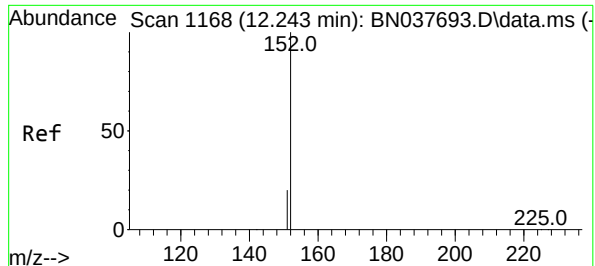
Tgt Ion	128	129	127
Resp:	14229		
Ion Ratio	100	11.4	13.6
Lower		9.1	10.9
Upper		13.7	16.3



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	225	223	227
Resp:	2615		
Ion Ratio	100	0.0	63.6
Lower		0.0	50.9
Upper		0.0	76.3

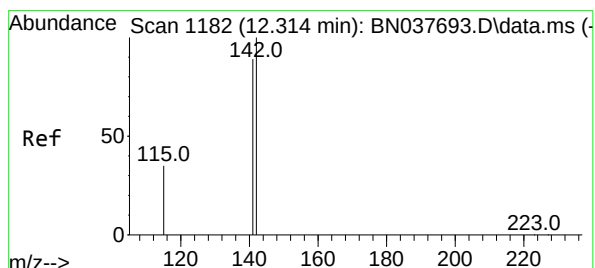
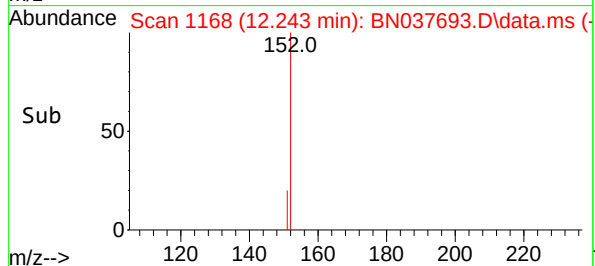
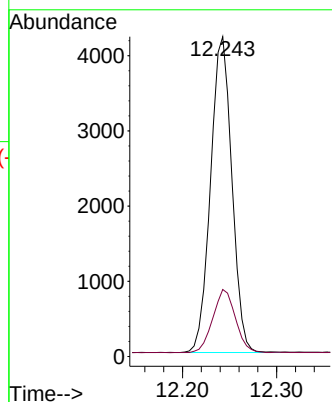
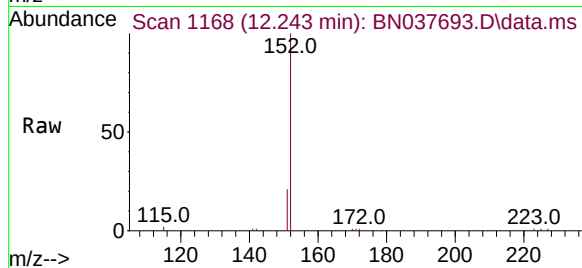




#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

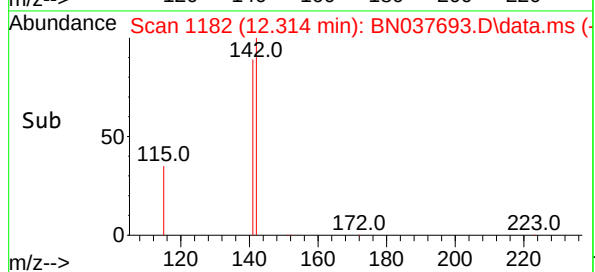
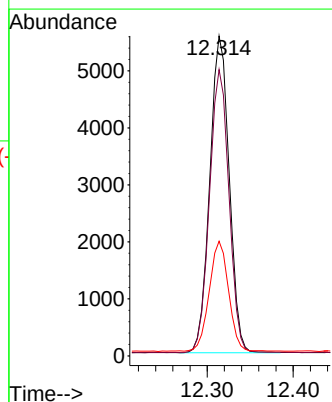
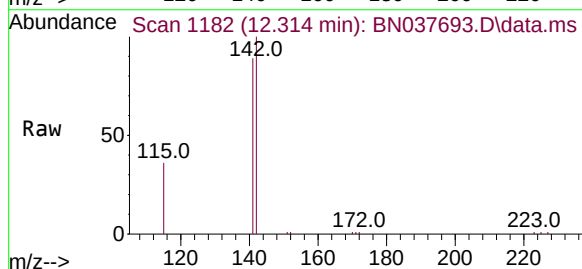
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

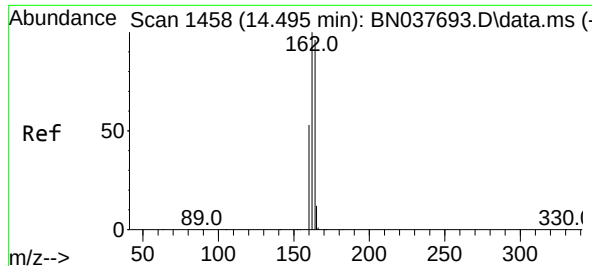
Tgt Ion:152 Resp: 6602
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:142 Resp: 8728
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.8 28.6 43.0

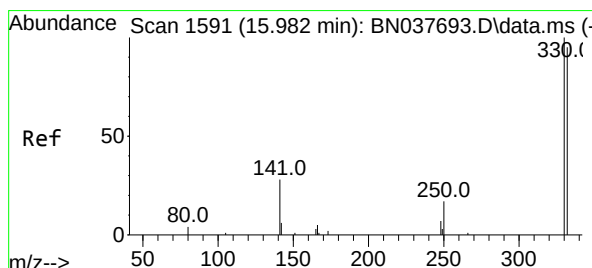
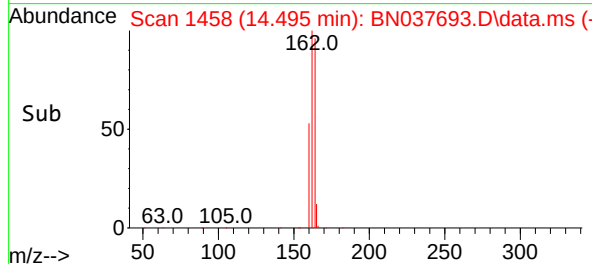
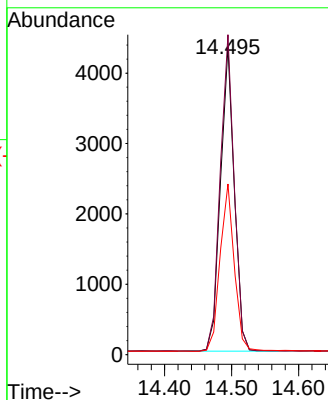
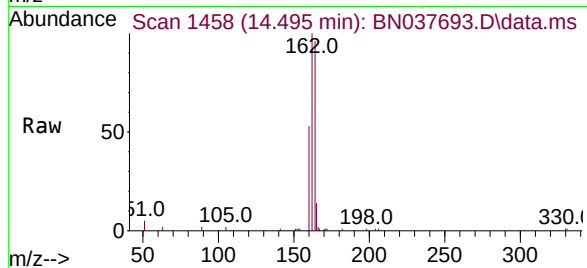




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

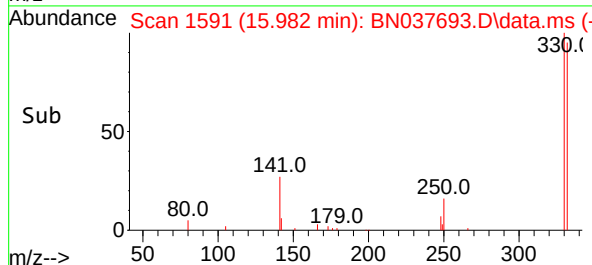
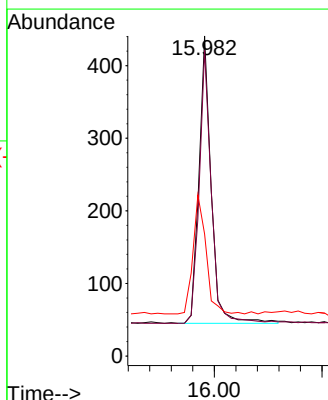
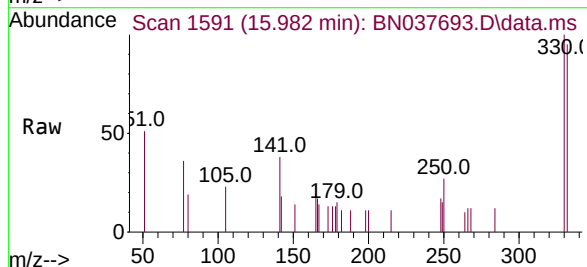
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

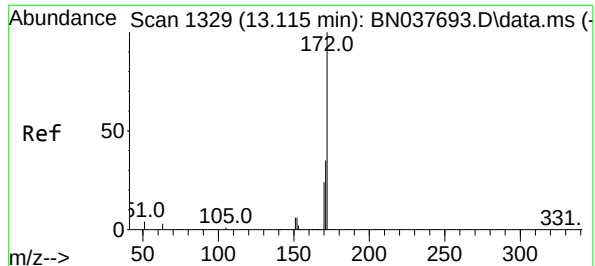
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	55.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.3	112.9
141	43.7	35.0	52.4





#15

2-Fluorobiphenyl

Concen: 0.394 ng

RT: 13.115 min Scan# 1329

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

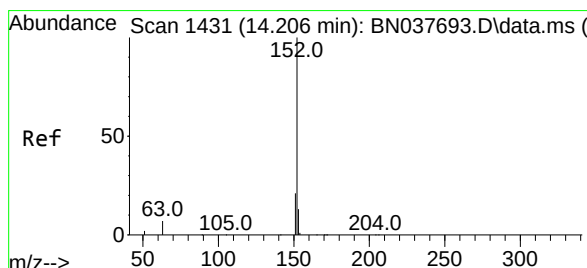
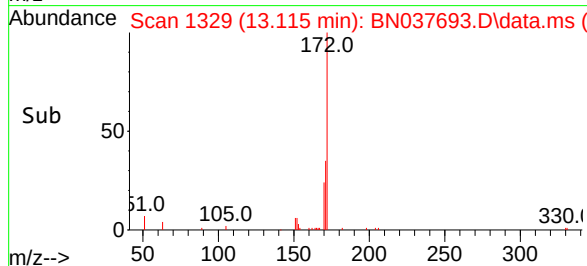
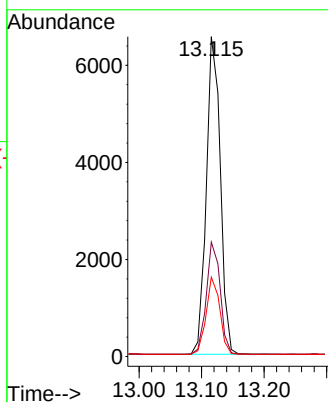
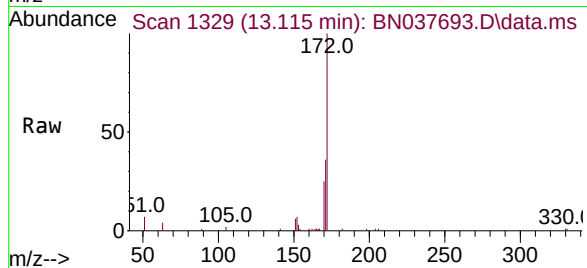
Tgt Ion:172 Resp: 10228

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.8 19.8 29.8



#16

Acenaphthylene

Concen: 0.389 ng

RT: 14.206 min Scan# 1431

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

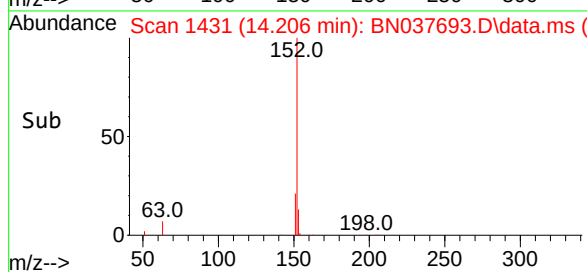
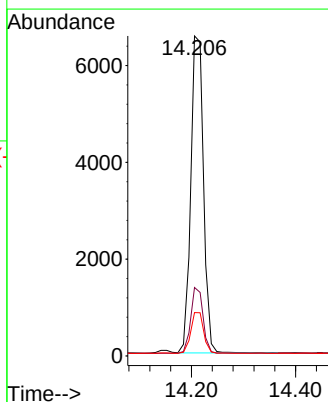
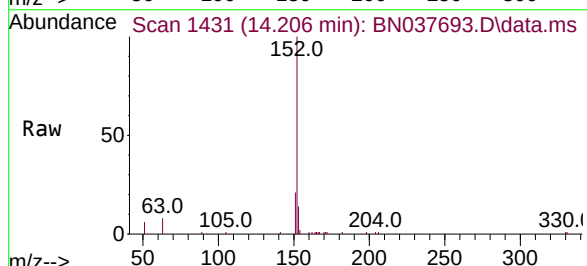
Tgt Ion:152 Resp: 11064

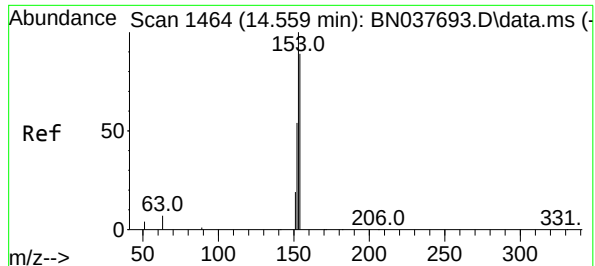
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.0 10.4 15.6

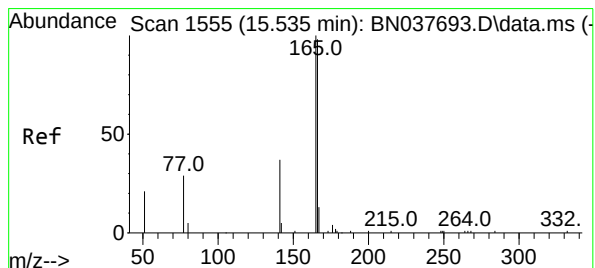
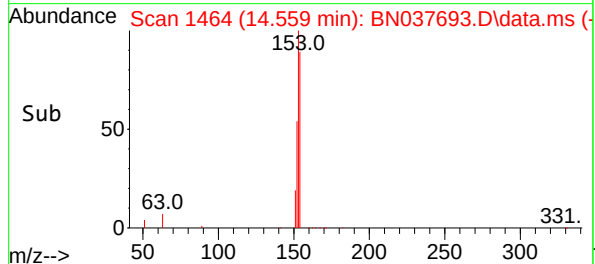
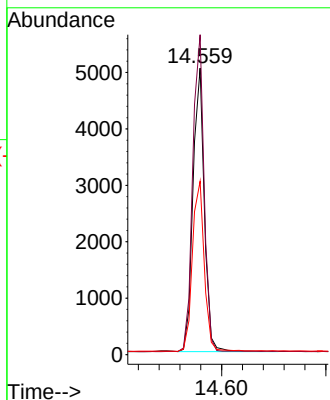
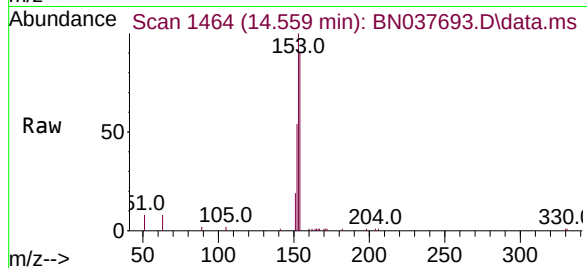




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

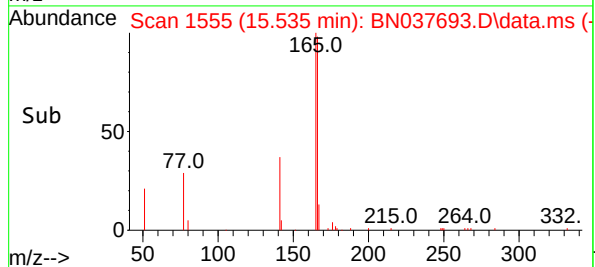
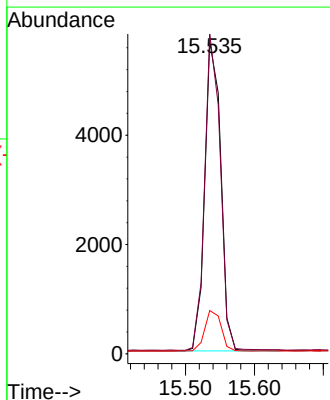
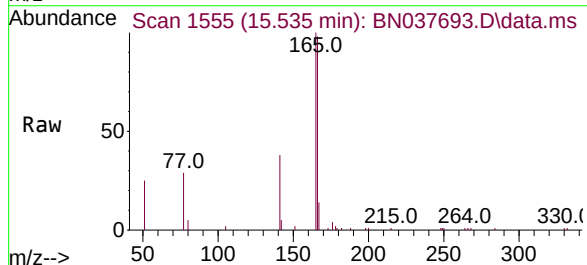
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

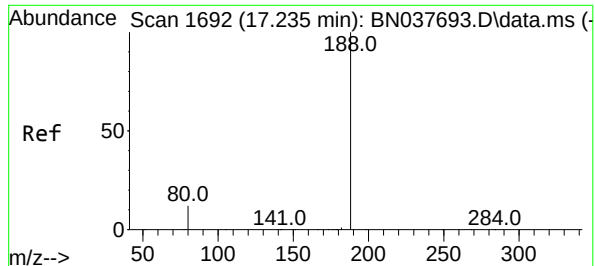
Tgt Ion	154	153	152
Resp:	7540		
Ion Ratio	100	112.3	62.7
Lower		89.8	50.2
Upper		134.8	75.2



#18
Fluorene
Concen: 0.384 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	166	165	167
Resp:	8938		
Ion Ratio	100	99.5	13.3
Lower		79.6	10.6
Upper		119.4	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

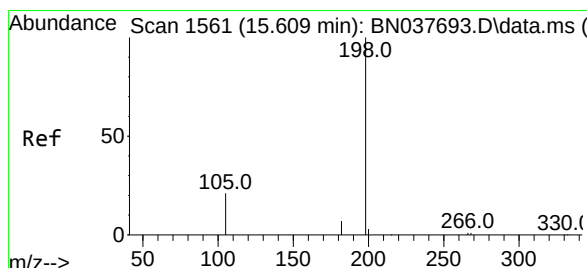
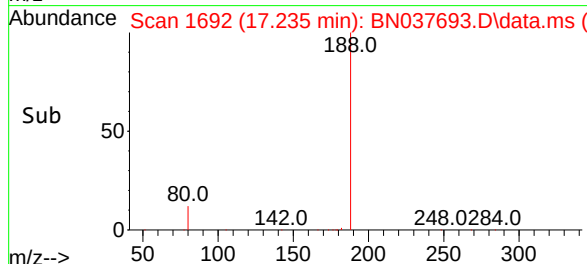
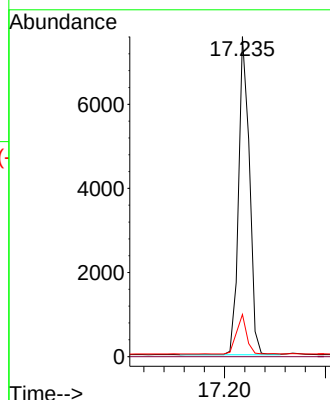
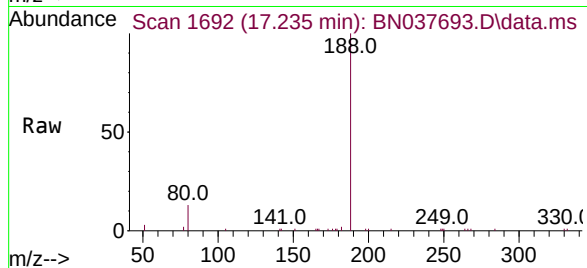
Tgt Ion:188 Resp: 11263

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.357 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

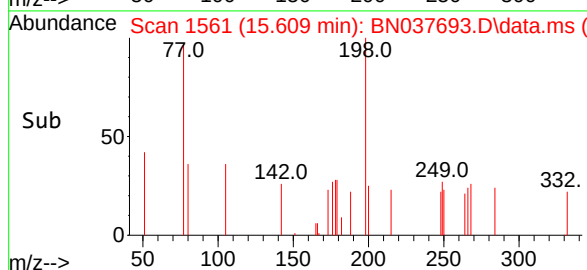
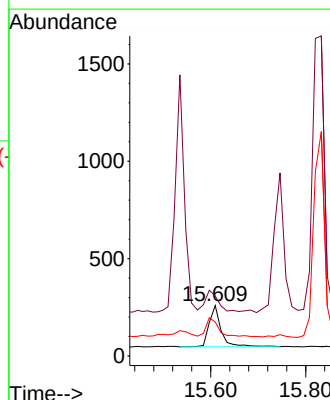
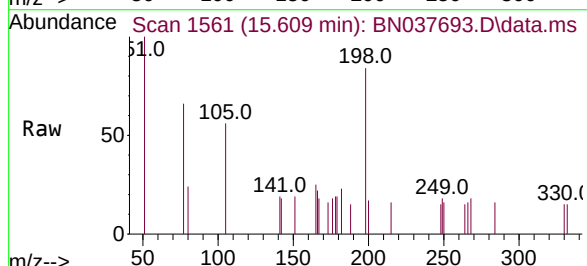
Tgt Ion:198 Resp: 372

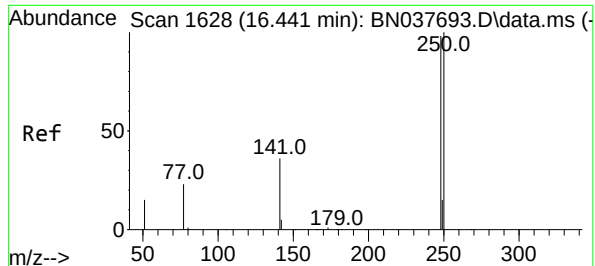
Ion Ratio Lower Upper

198 100

51 118.9 95.1 142.7

105 67.2 53.8 80.6

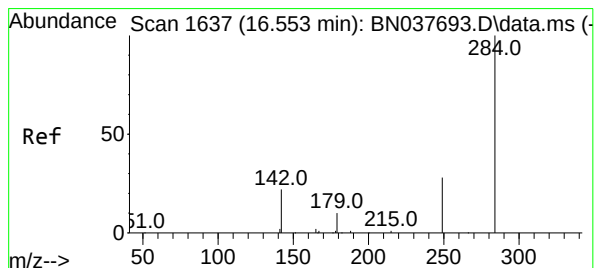
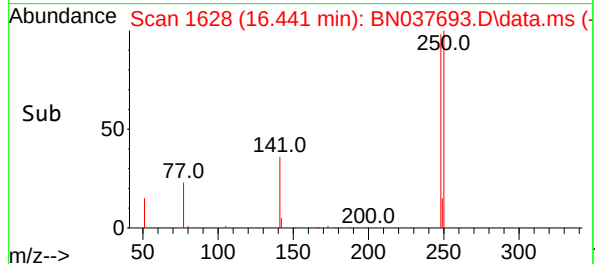
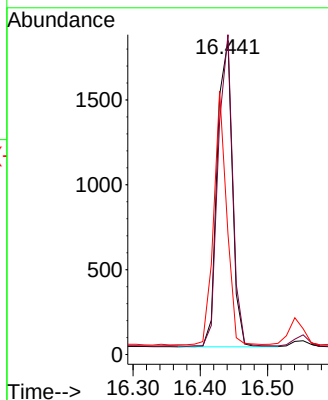
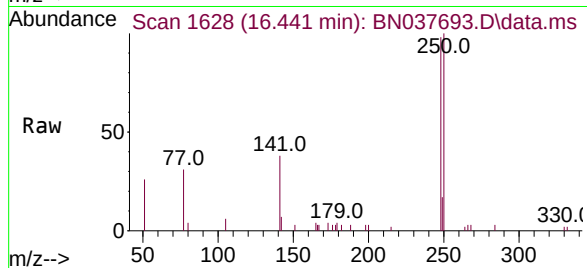




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

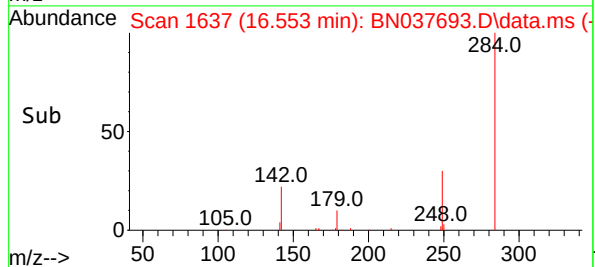
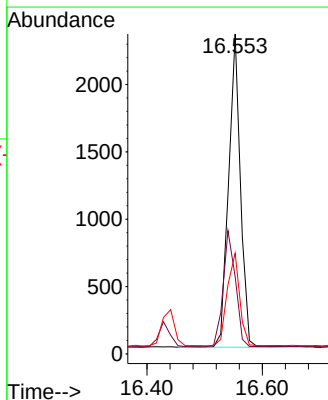
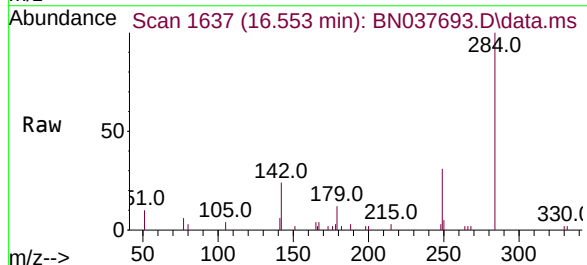
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

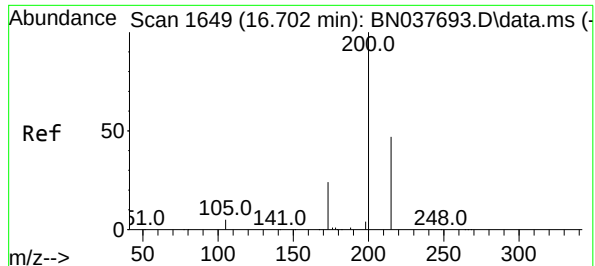
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.9	81.5	122.3
141	38.5	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	31.0	24.8	37.2

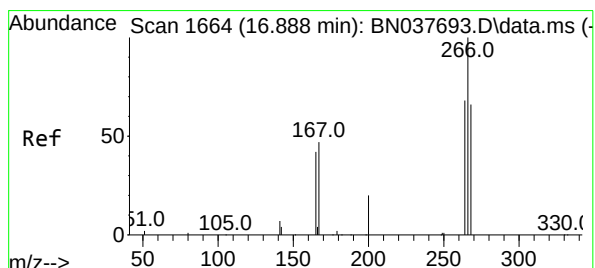
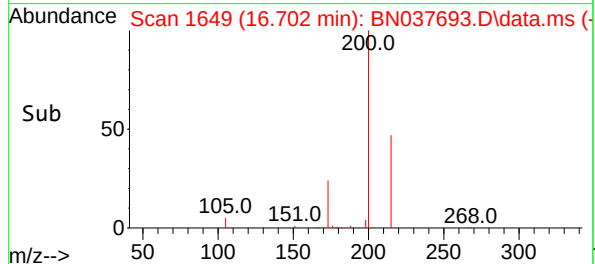
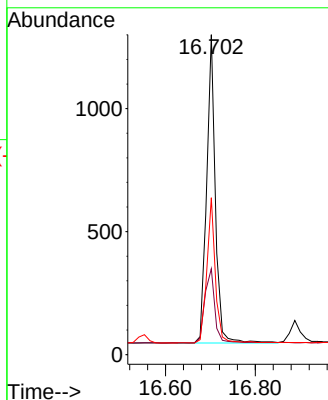
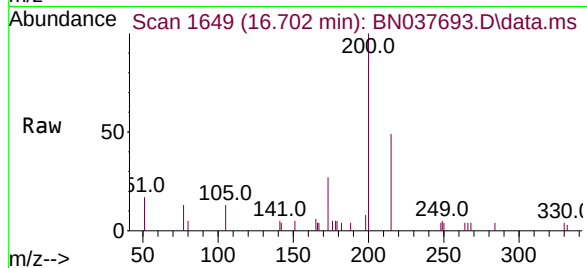




#23
Atrazine
Concen: 0.365 ng
RT: 16.702 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

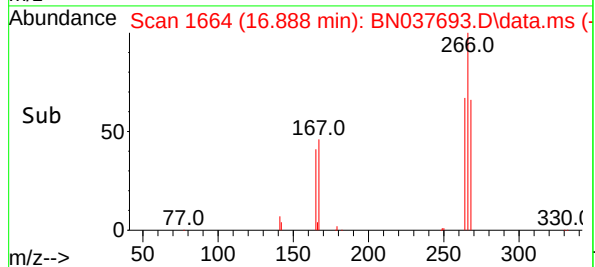
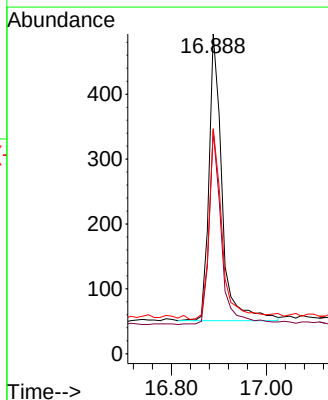
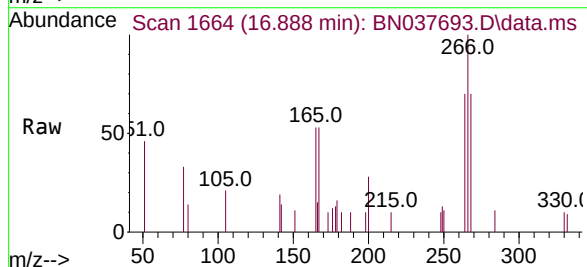
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

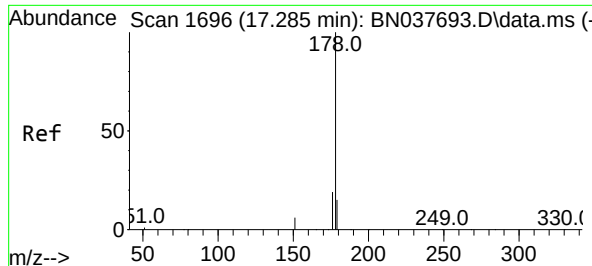
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.8	21.4	32.2
215	49.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.5	51.6	77.4
268	66.5	53.2	79.8

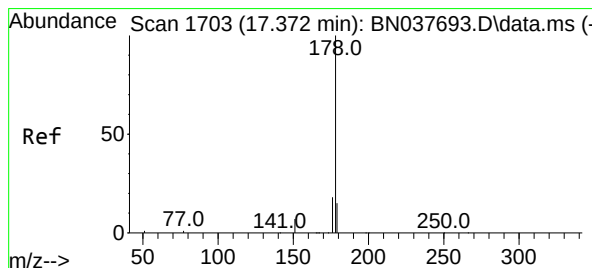
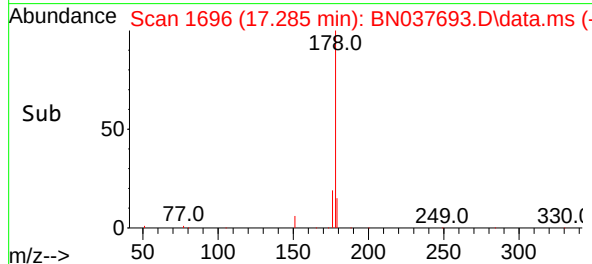
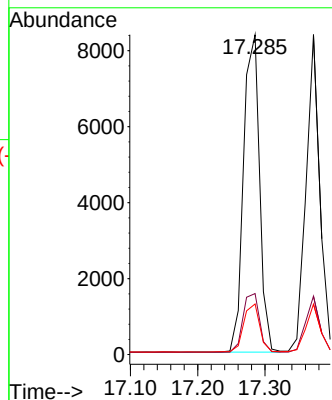
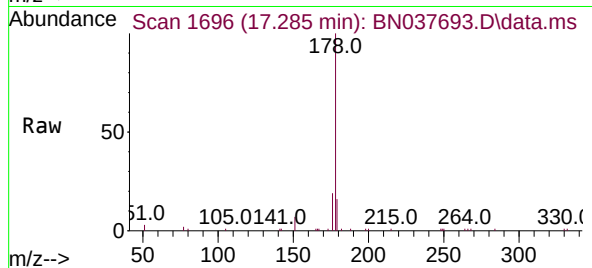




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

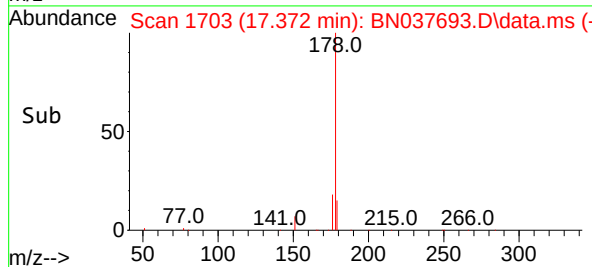
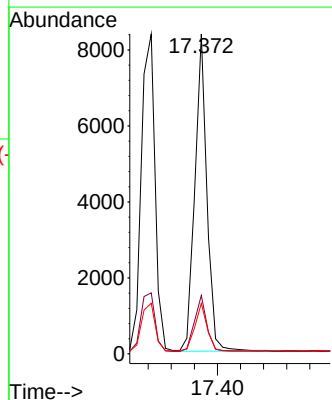
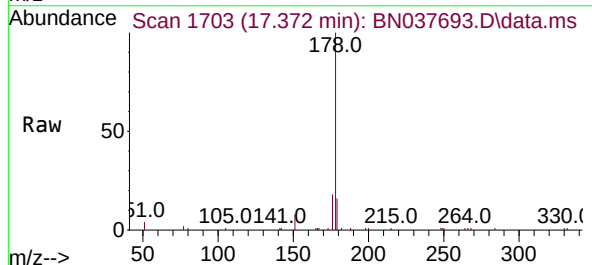
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

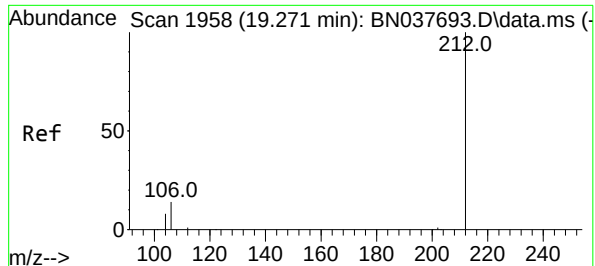
Tgt Ion:178 Resp: 13778
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.384 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037693.D
Acq: 11 Sep 2025 11:08

Tgt Ion:178 Resp: 12049
Ion Ratio Lower Upper
178 100
176 18.2 14.6 22.0
179 15.3 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.372 ng

RT: 19.271 min Scan# 1958

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

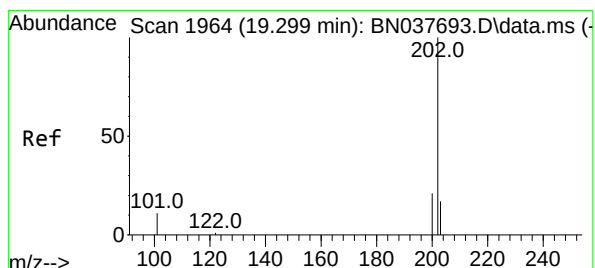
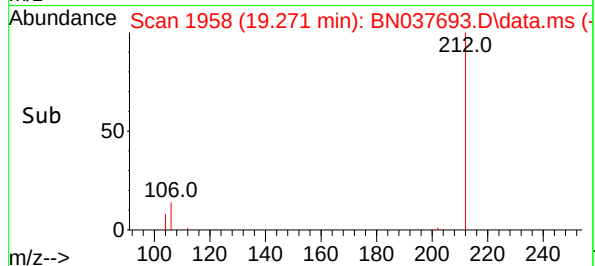
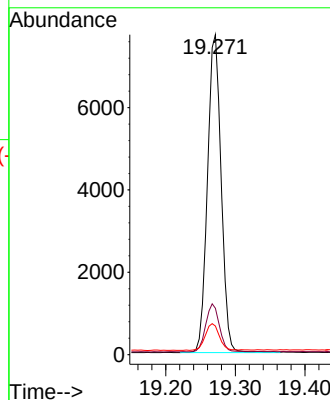
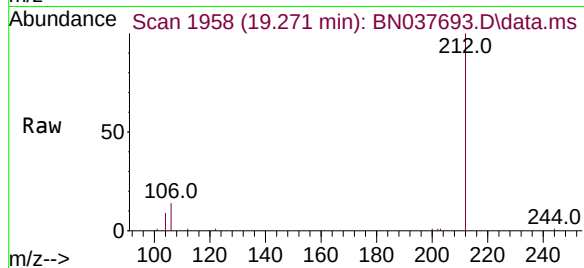
Tgt Ion:212 Resp: 10530

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 0.379 ng

RT: 19.299 min Scan# 1964

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

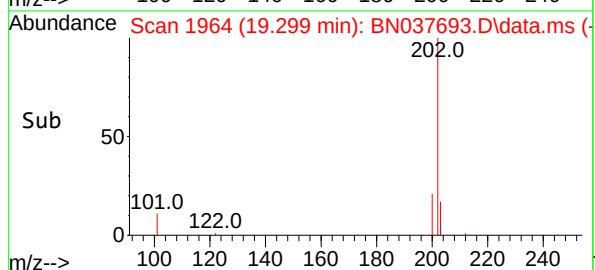
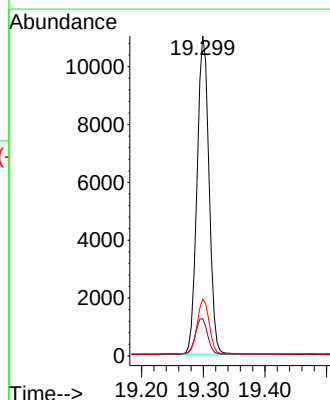
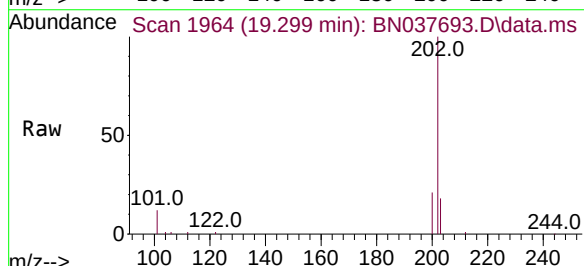
Tgt Ion:202 Resp: 14751

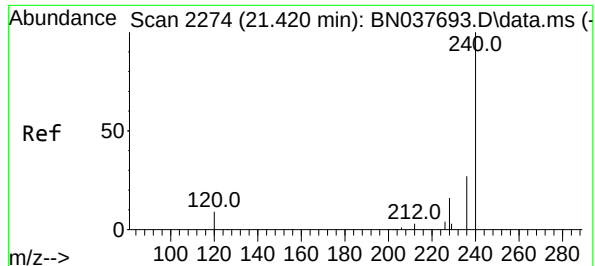
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

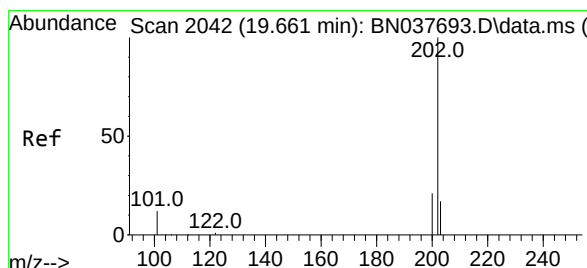
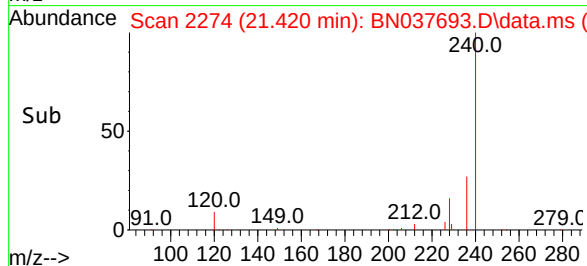
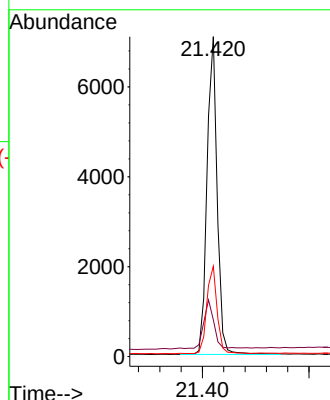
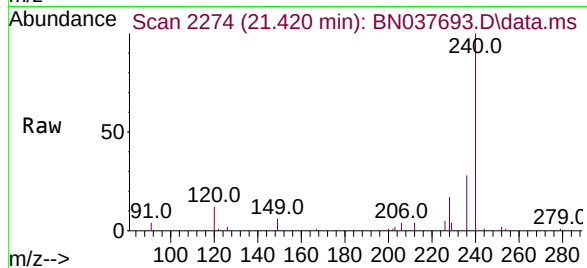
Tgt Ion:240 Resp: 9368

Ion Ratio Lower Upper

240 100

120 11.5 9.2 13.8

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.398 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

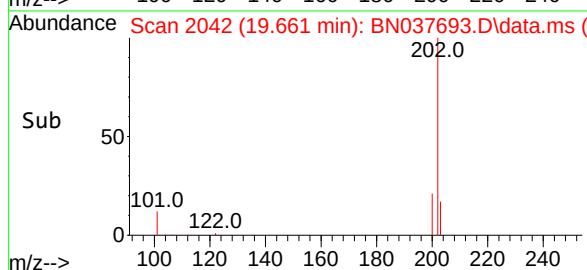
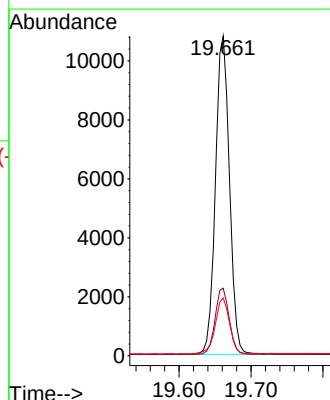
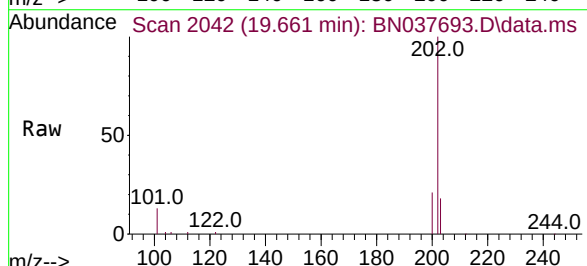
Tgt Ion:202 Resp: 14587

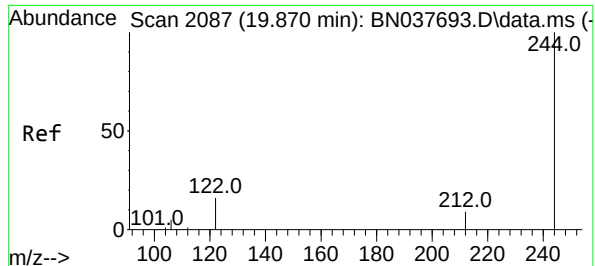
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.395 ng

RT: 19.870 min Scan# 2087

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

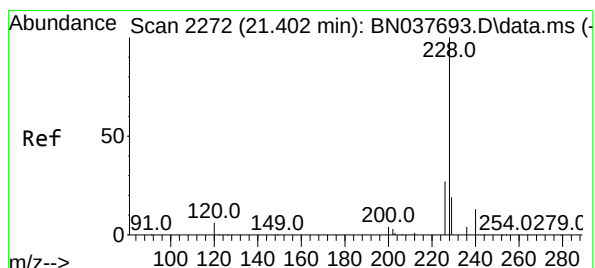
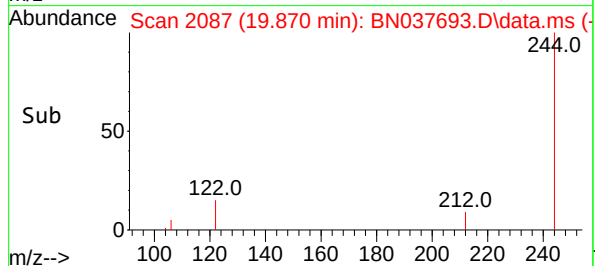
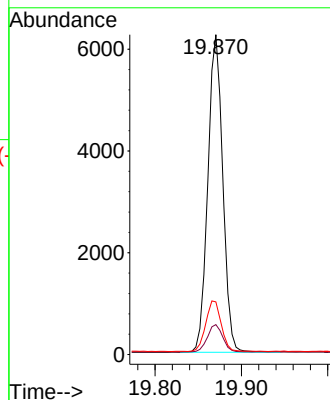
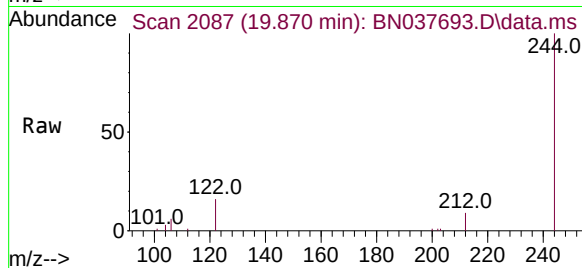
Tgt Ion:244 Resp: 7507

Ion Ratio Lower Upper

244 100

212 9.4 7.5 11.3

122 16.5 13.2 19.8



#32

Benzo(a)anthracene

Concen: 0.386 ng

RT: 21.402 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

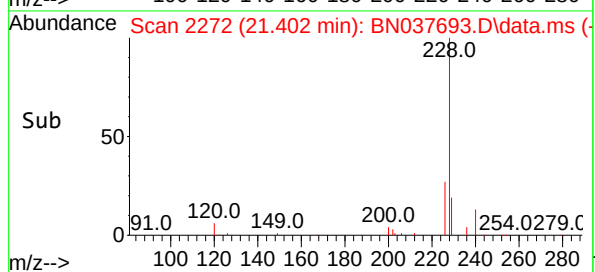
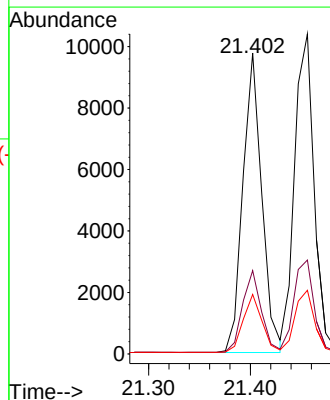
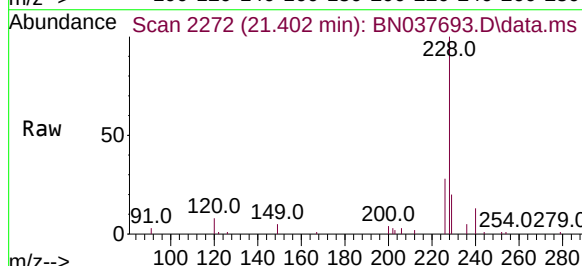
Tgt Ion:228 Resp: 12621

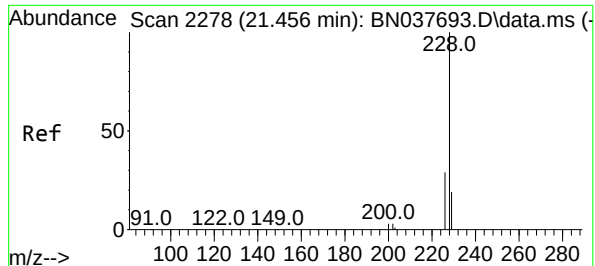
Ion Ratio Lower Upper

228 100

226 27.7 22.2 33.2

229 19.7 15.8 23.6





#33

Chrysene

Concen: 0.400 ng

RT: 21.456 min Scan# 2278

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

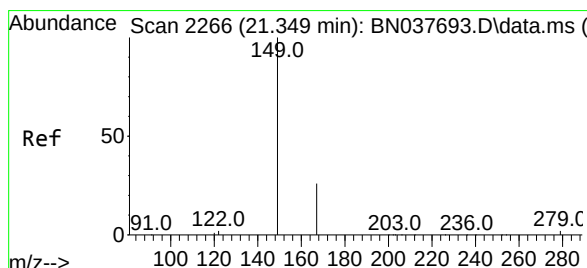
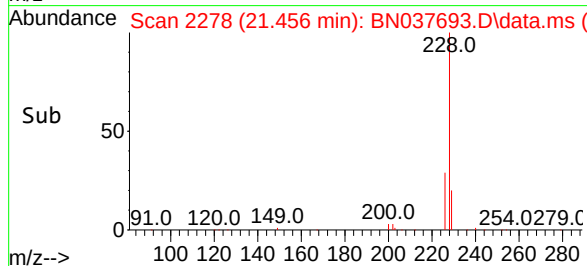
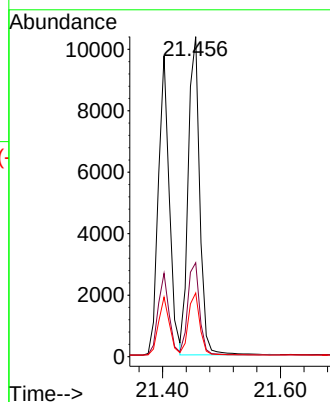
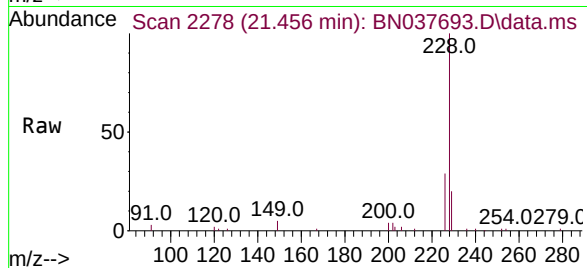
Tgt Ion:228 Resp: 14018

Ion Ratio Lower Upper

228 100

226 29.4 23.5 35.3

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.363 ng

RT: 21.349 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

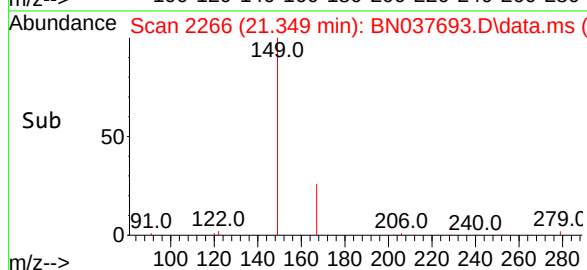
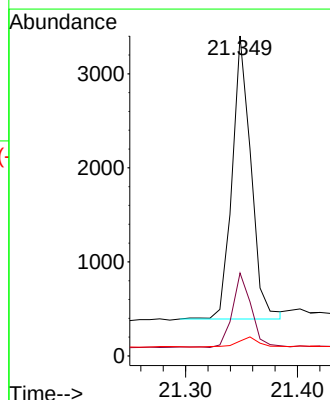
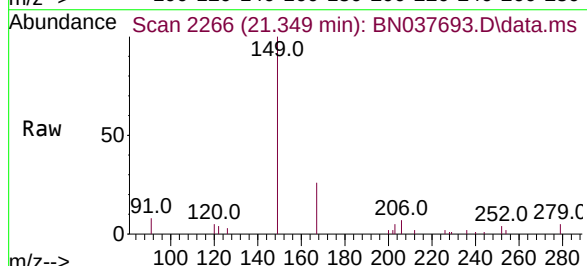
Tgt Ion:149 Resp: 3520

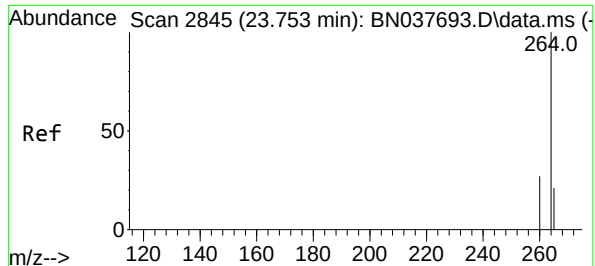
Ion Ratio Lower Upper

149 100

167 25.8 20.8 31.2

279 4.0 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. 0.000 min

Lab File: BN037693.D

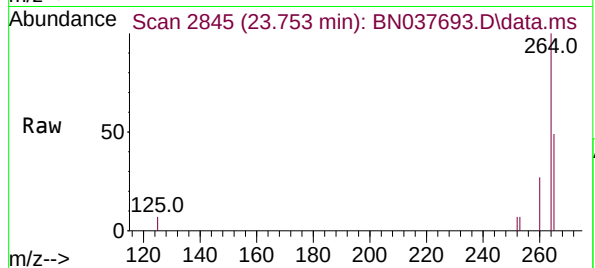
Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



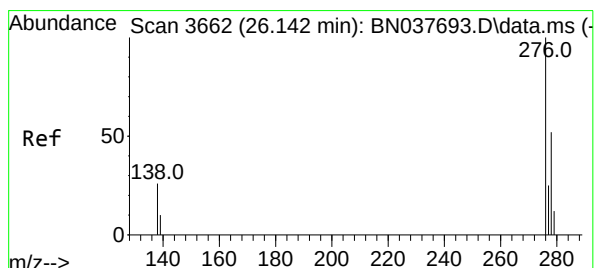
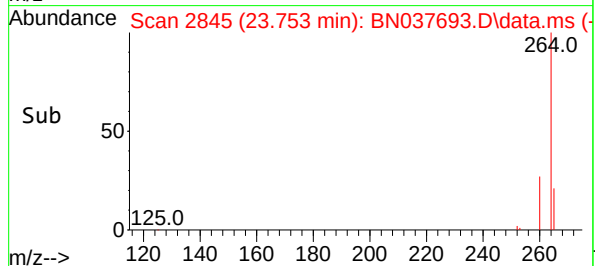
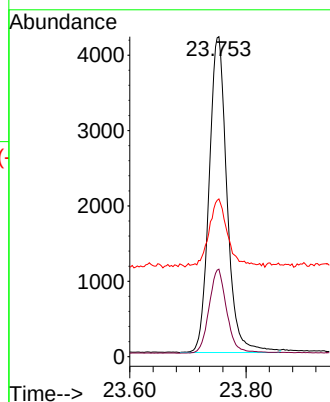
Tgt Ion:264 Resp: 8965

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 49.3 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.367 ng

RT: 26.142 min Scan# 3662

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

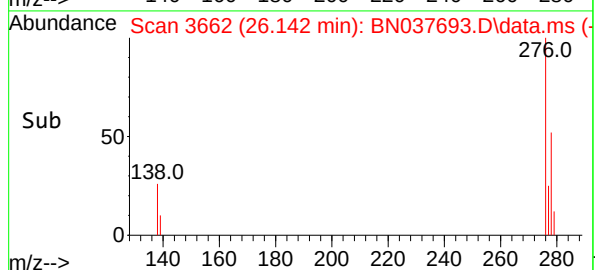
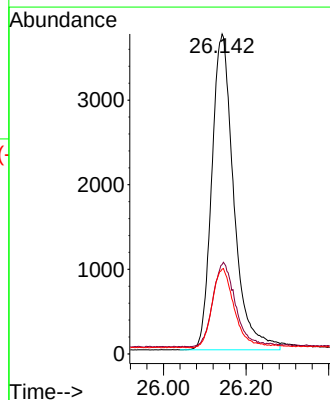
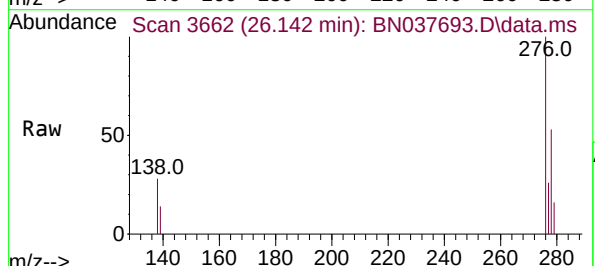
Tgt Ion:276 Resp: 13835

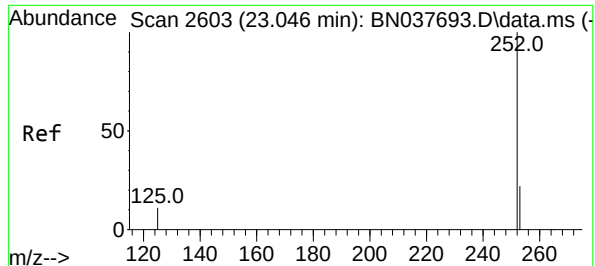
Ion Ratio Lower Upper

276 100

138 27.4 21.9 32.9

277 25.1 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.395 ng

RT: 23.046 min Scan# 2603

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

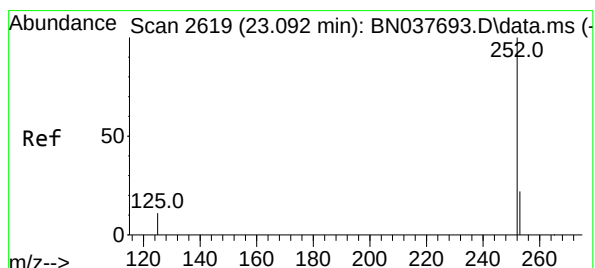
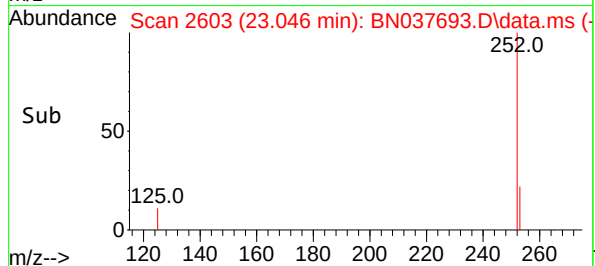
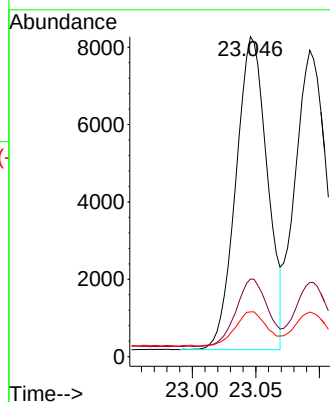
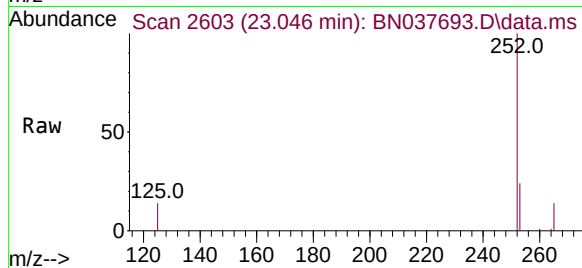
Tgt Ion:252 Resp: 13935

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 14.0 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.092 min Scan# 2619

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

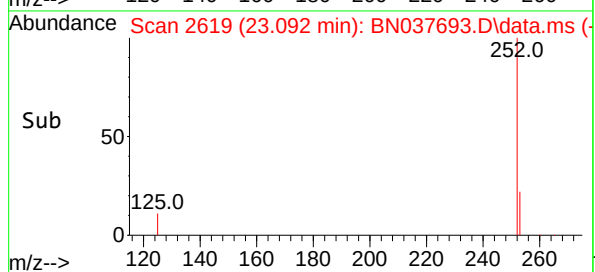
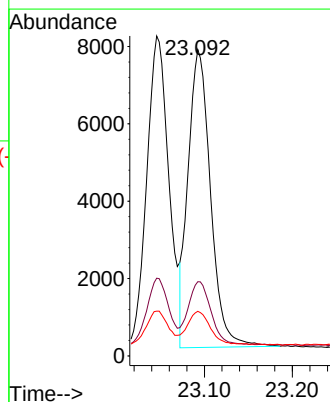
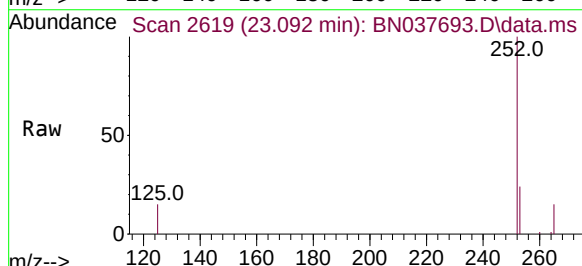
Tgt Ion:252 Resp: 13659

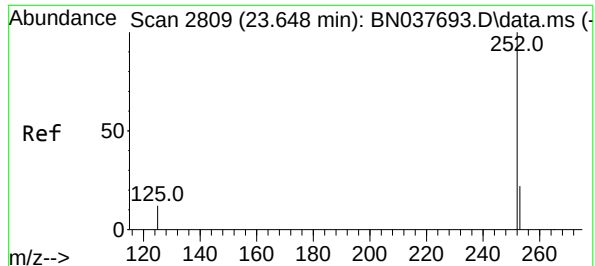
Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 14.5 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.648 min Scan# 2809

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

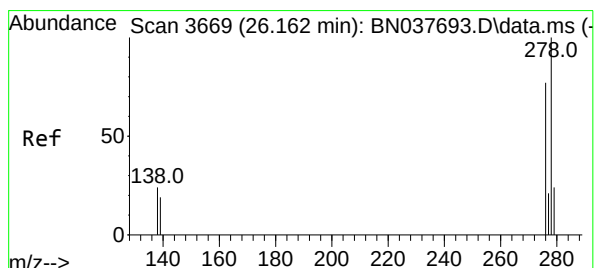
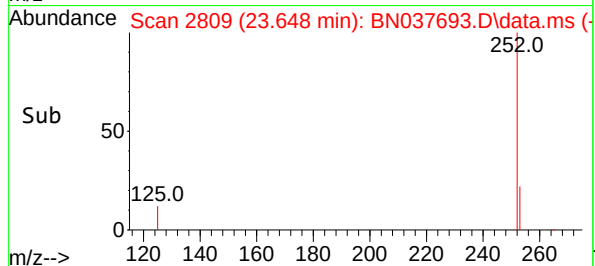
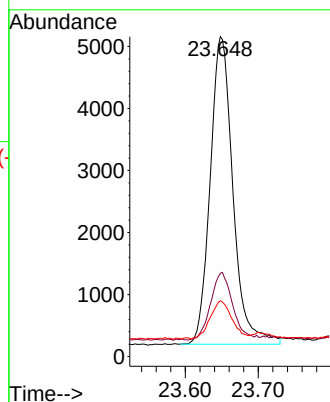
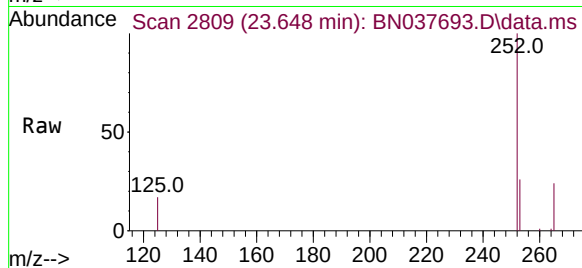
Tgt Ion:252 Resp: 10766

Ion Ratio Lower Upper

252 100

253 26.0 20.8 31.2

125 17.4 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 26.162 min Scan# 3669

Delta R.T. 0.000 min

Lab File: BN037693.D

Acq: 11 Sep 2025 11:08

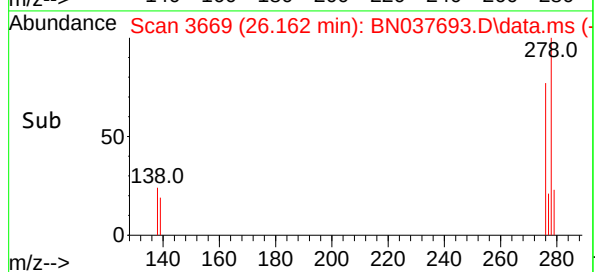
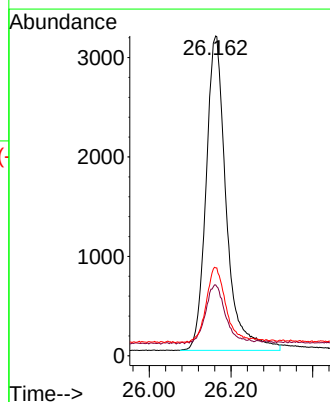
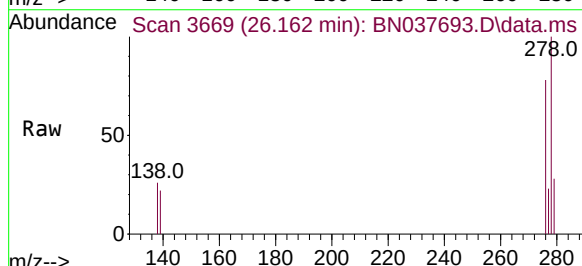
Tgt Ion:278 Resp: 10852

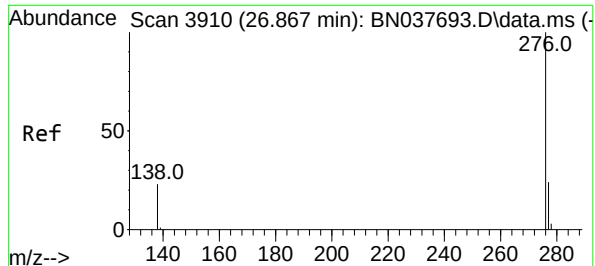
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 27.5 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.867 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN037693.D

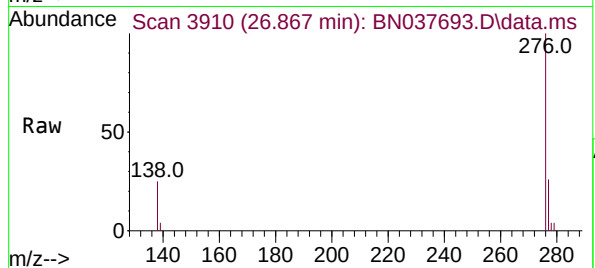
Acq: 11 Sep 2025 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



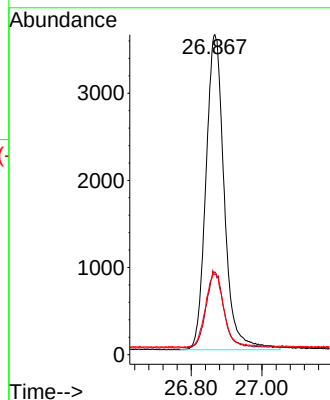
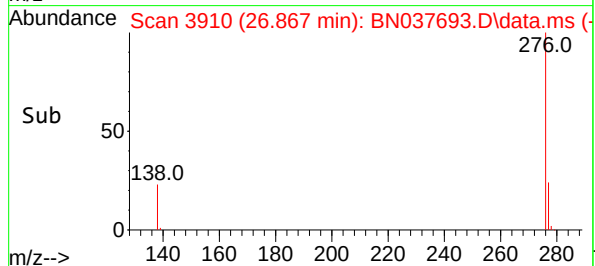
Tgt Ion:276 Resp: 13009

Ion Ratio Lower Upper

276 100

277 25.8 20.6 31.0

138 25.2 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037694.D
 Acq On : 11 Sep 2025 11:44
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

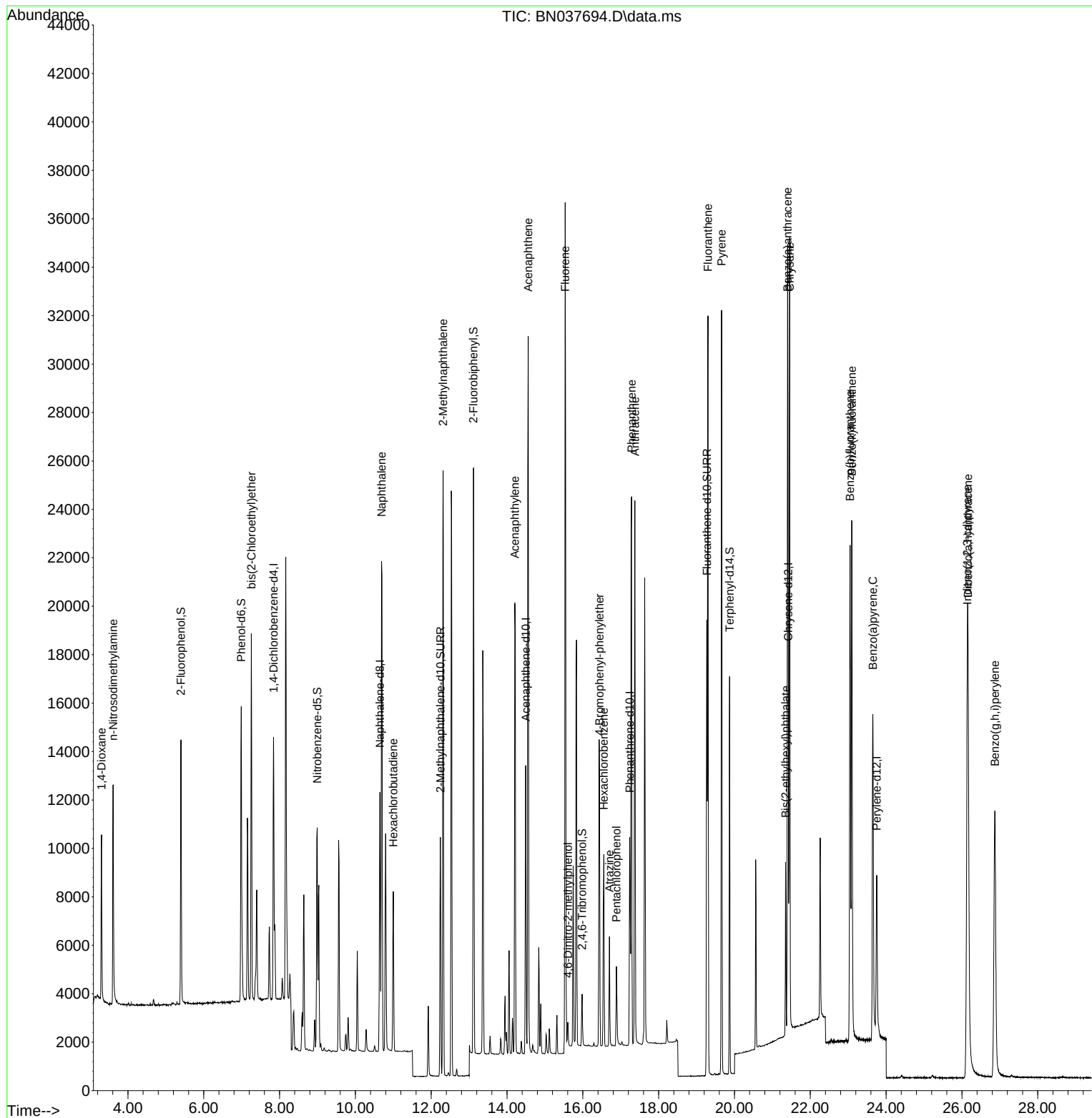
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5166	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13664	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6297	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11247	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9536	0.400	ng	0.00
35) Perylene-d12	23.753	264	9336	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	8684	0.732	ng	0.00
5) Phenol-d6	6.988	99	11241	0.731	ng	0.00
8) Nitrobenzene-d5	8.993	82	7438	0.744	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	13053	0.721	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1211	0.737	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	19971	0.758	ng	0.00
27) Fluoranthene-d10	19.271	212	19870	0.704	ng	0.00
31) Terphenyl-d14	19.870	244	14384	0.743	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	4244	0.789	ng	98
3) n-Nitrosodimethylamine	3.608	42	5321	0.757	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	10526	0.766	ng	99
9) Naphthalene	10.690	128	28311	0.758	ng	100
10) Hexachlorobutadiene	11.000	225	5165	0.764	ng	# 99
12) 2-Methylnaphthalene	12.314	142	17311	0.749	ng	99
16) Acenaphthylene	14.206	152	21746	0.753	ng	99
17) Acenaphthene	14.559	154	14943	0.765	ng	100
18) Fluorene	15.535	166	17870	0.756	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	751	0.721	ng	# 66
21) 4-Bromophenyl-phenylether	16.441	248	5576	0.760	ng	99
22) Hexachlorobenzene	16.553	284	6299	0.747	ng	99
23) Atrazine	16.702	200	3288	0.705	ng	98
24) Pentachlorophenol	16.888	266	1652	0.674	ng	97
25) Phenanthrene	17.285	178	26380	0.745	ng	100
26) Anthracene	17.372	178	23177	0.739	ng	100
28) Fluoranthene	19.299	202	28541	0.735	ng	100
30) Pyrene	19.661	202	28089	0.752	ng	100
32) Benzo(a)anthracene	21.402	228	24740	0.744	ng	99
33) Chrysene	21.456	228	26737	0.750	ng	99
34) Bis(2-ethylhexyl)phtha...	21.349	149	6579	0.667	ng	98
36) Indeno(1,2,3-cd)pyrene	26.142	276	28614	0.729	ng	100
37) Benzo(b)fluoranthene	23.049	252	26965	0.733	ng	98
38) Benzo(k)fluoranthene	23.095	252	28034	0.748	ng	98
39) Benzo(a)pyrene	23.651	252	21496	0.730	ng	95
40) Dibenzo(a,h)anthracene	26.162	278	23010	0.735	ng	95
41) Benzo(g,h,i)perylene	26.867	276	25683	0.731	ng	98

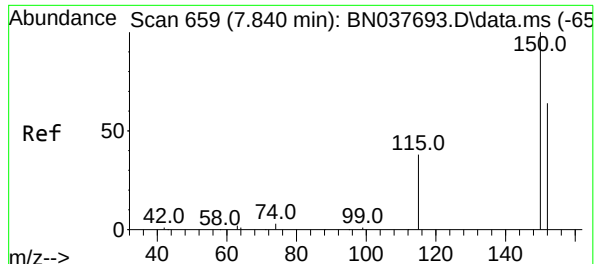
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037694.D
Acq On : 11 Sep 2025 11:44
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 11 14:06:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

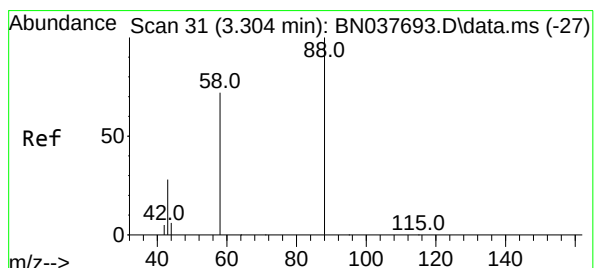
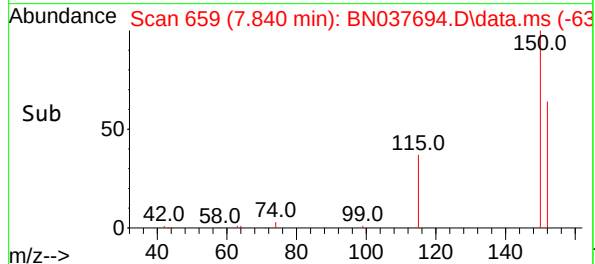
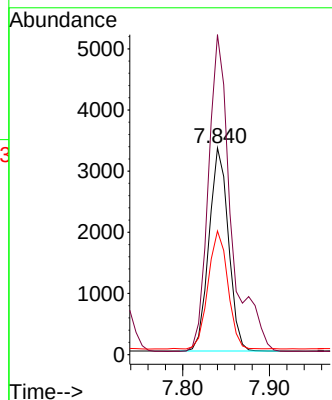
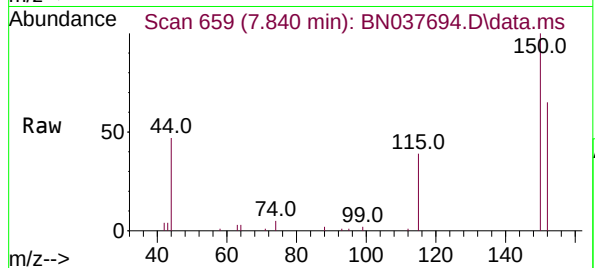




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

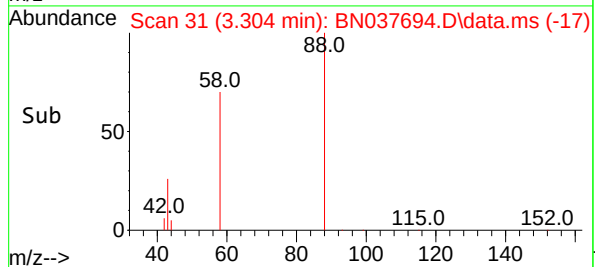
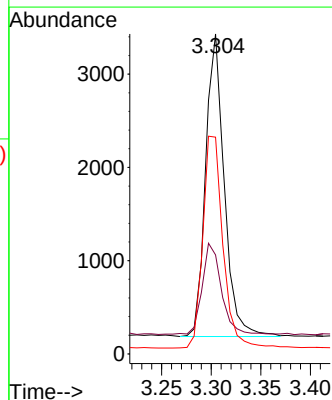
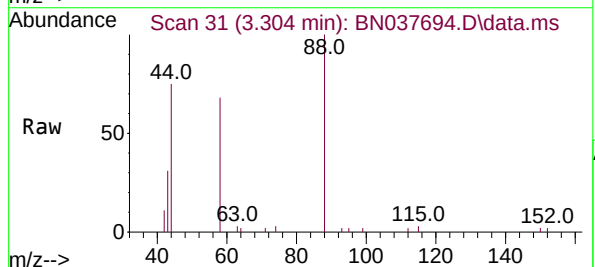
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

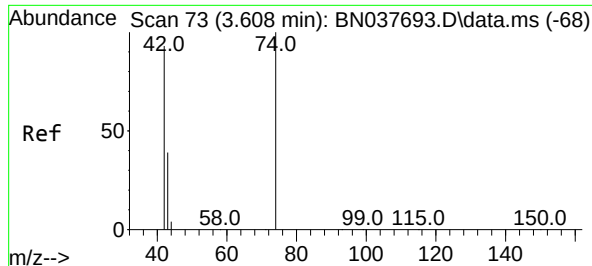
Tgt Ion:152 Resp: 5166
Ion Ratio Lower Upper
152 100
150 154.9 124.5 186.7
115 59.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.789 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 88 Resp: 4244
Ion Ratio Lower Upper
88 100
43 31.1 26.8 40.2
58 76.2 61.9 92.9

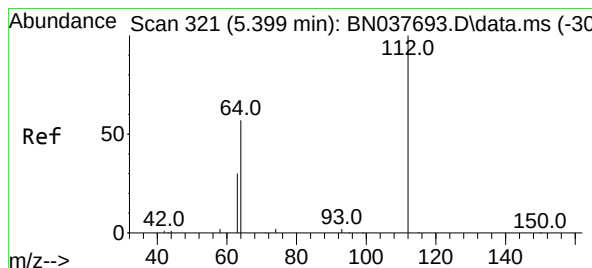
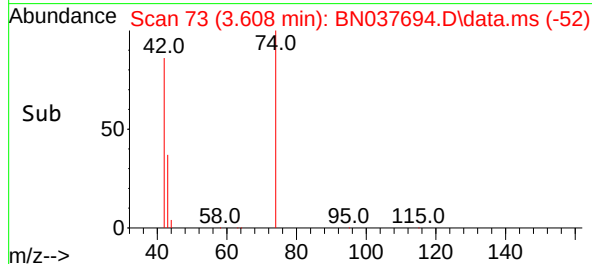
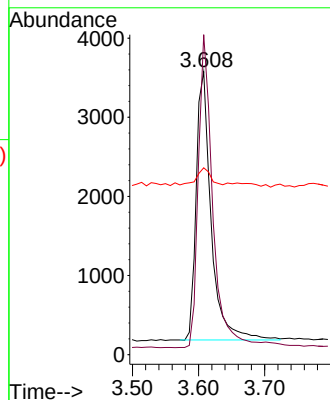
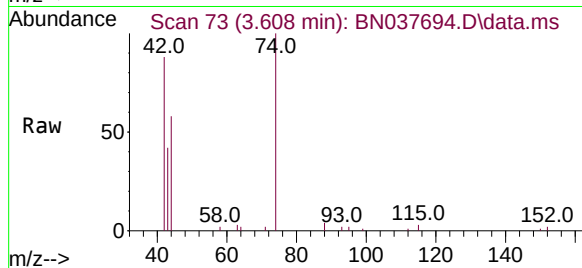




#3
n-Nitrosodimethylamine
Concen: 0.757 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

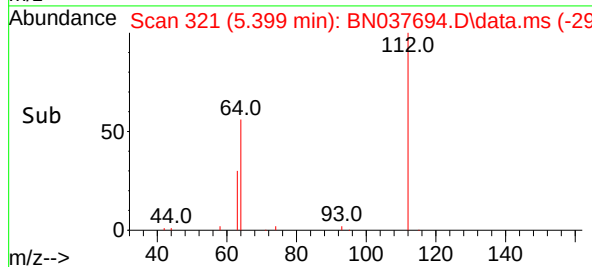
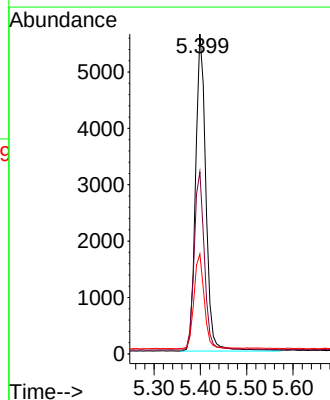
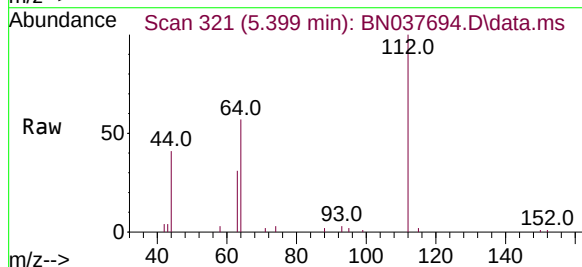
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

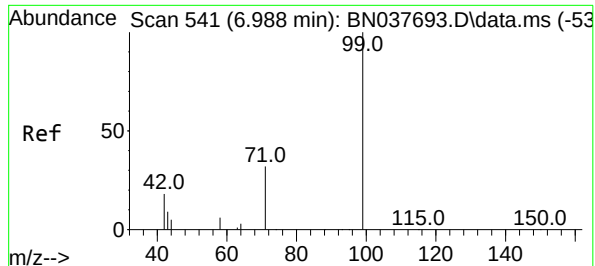
Tgt Ion: 42 Resp: 5321
Ion Ratio Lower Upper
42 100
74 114.4 86.0 129.0
44 6.9 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.732 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 112 Resp: 8684
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 29.8 24.7 37.1

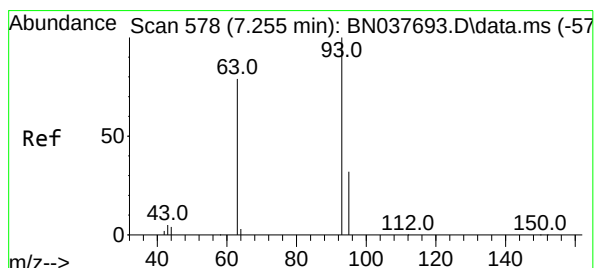
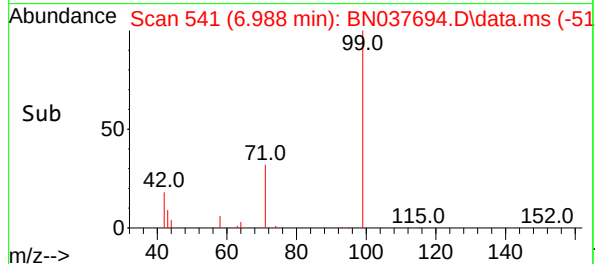
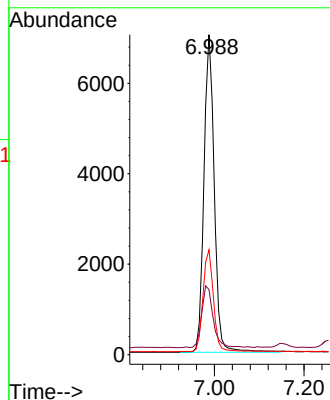
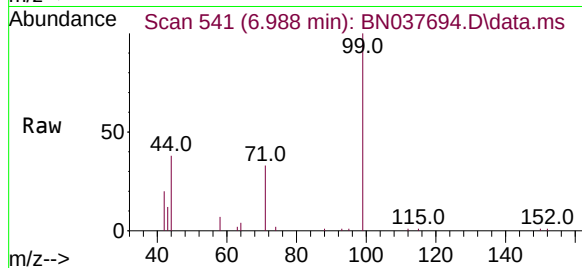




#5
Phenol-d6
Concen: 0.731 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

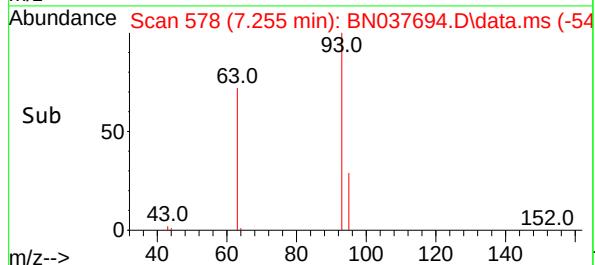
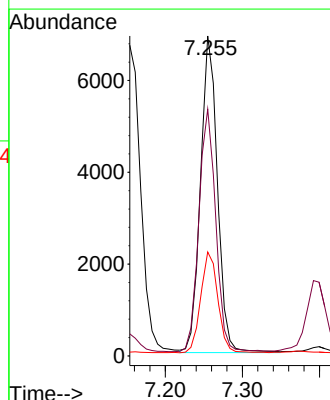
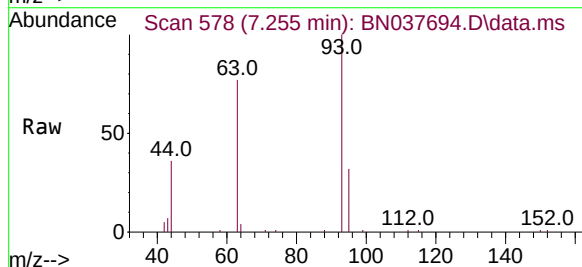
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

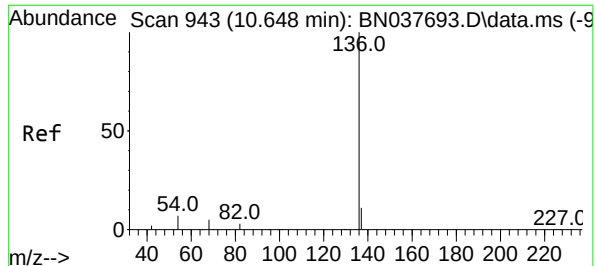
Tgt Ion: 99 Resp: 11241
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion: 93 Resp: 10526
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.1 26.0 39.0

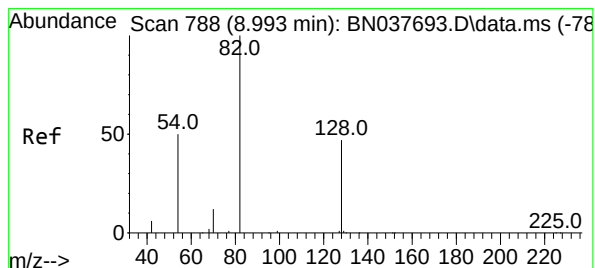
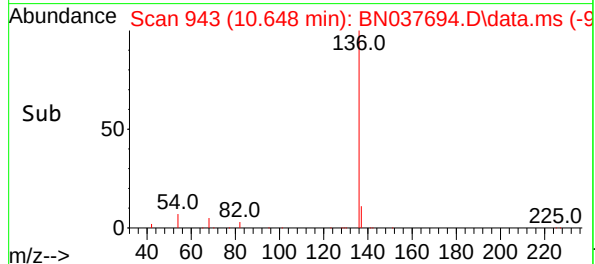
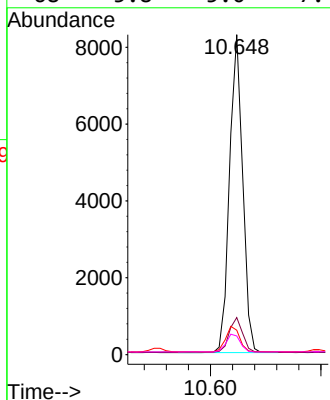
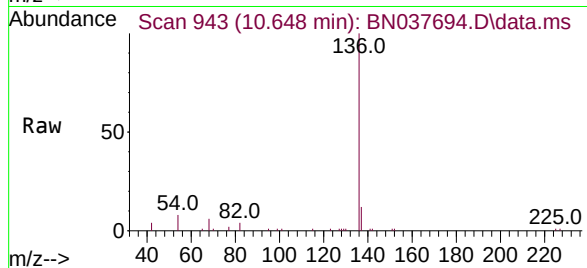




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

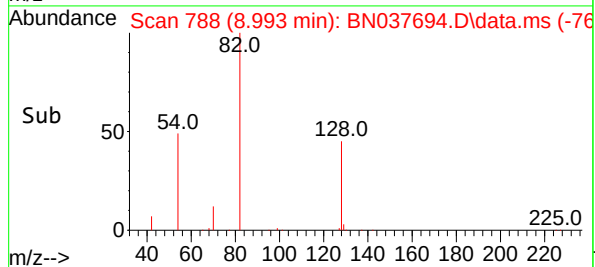
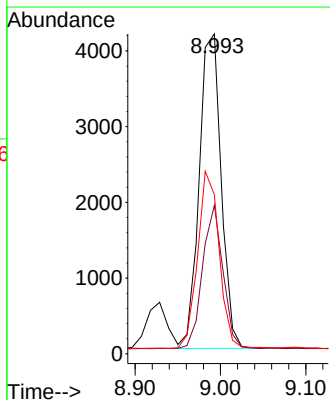
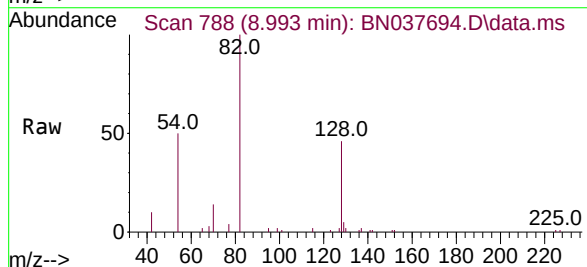
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

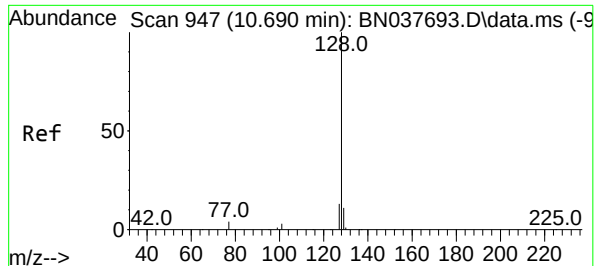
Tgt Ion:	136	Resp:	13664
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	7.6	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.744 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:	82	Resp:	7438
Ion Ratio	Lower	Upper	
82	100		
128	46.4	38.3	57.5
54	49.7	41.4	62.2

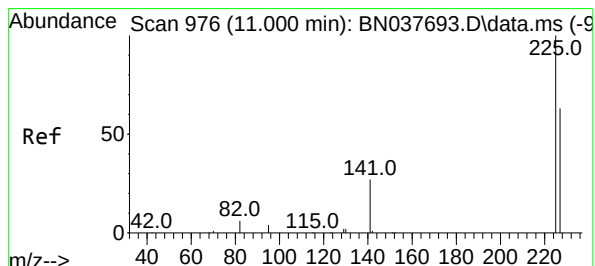
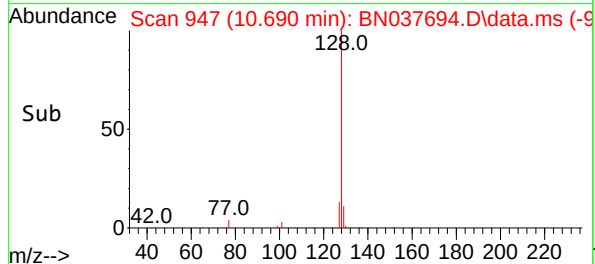
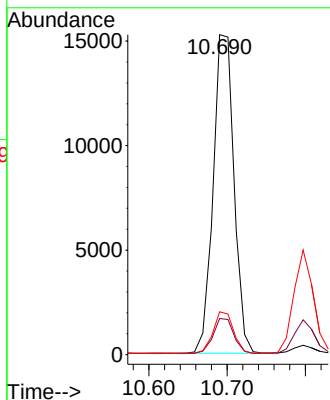
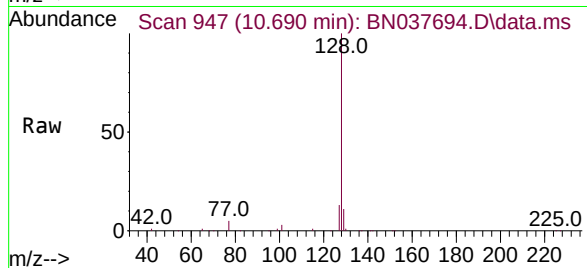




#9
Naphthalene
Concen: 0.758 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

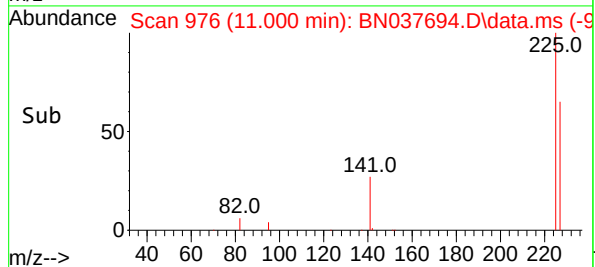
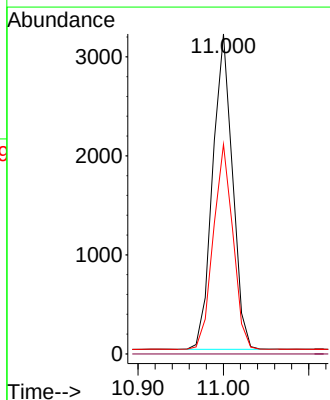
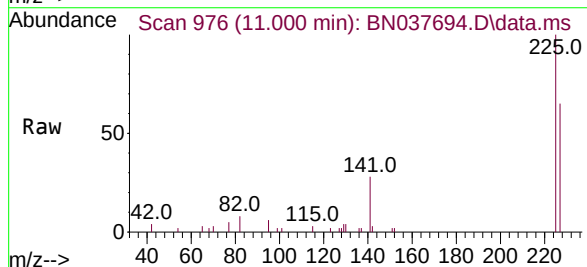
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

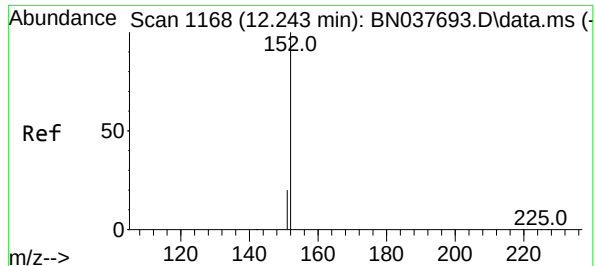
Tgt Ion:128 Resp: 28311
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.764 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:225 Resp: 5165
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 50.9 76.3

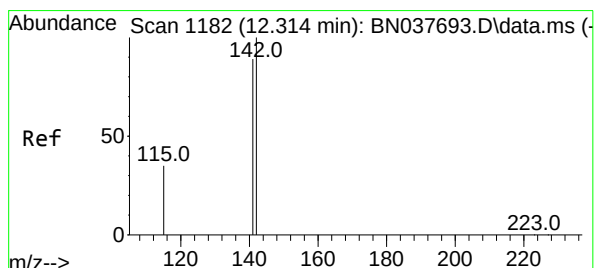
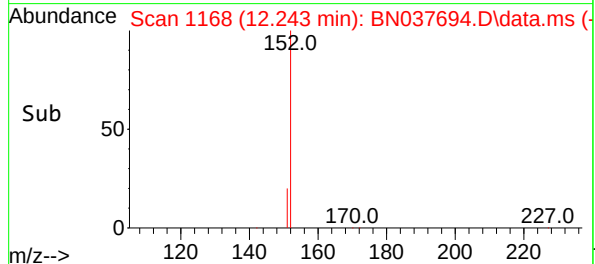
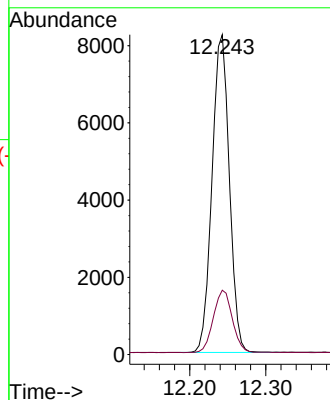
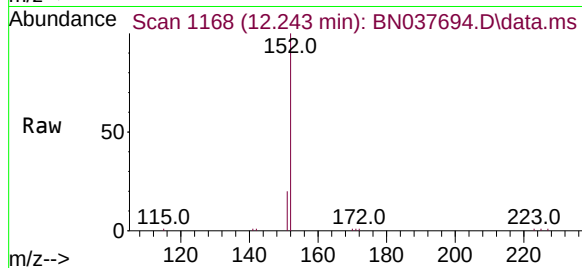




#11
2-Methylnaphthalene-d10
Concen: 0.721 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

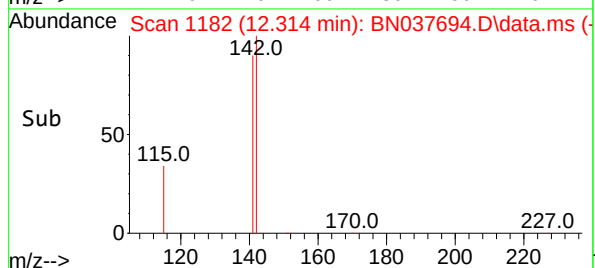
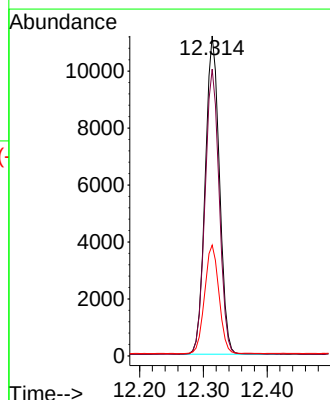
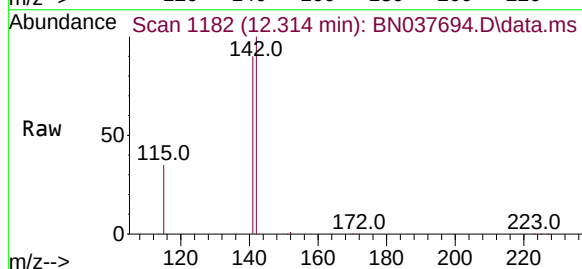
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

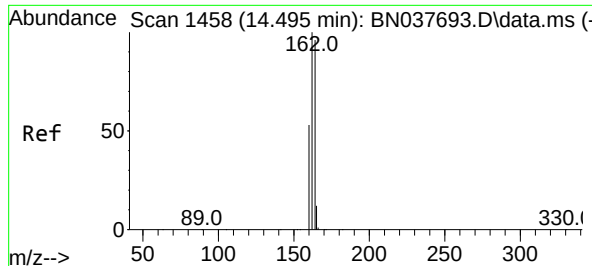
Tgt Ion:152 Resp: 13053
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.749 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion:142 Resp: 17311
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 34.6 28.6 43.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.495 min Scan# 1458

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

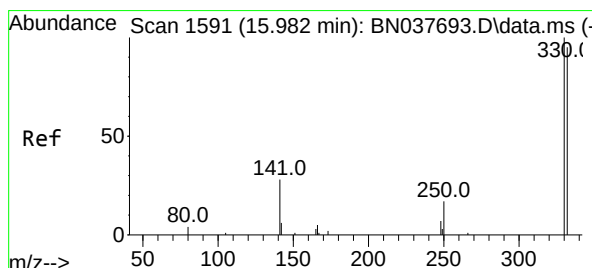
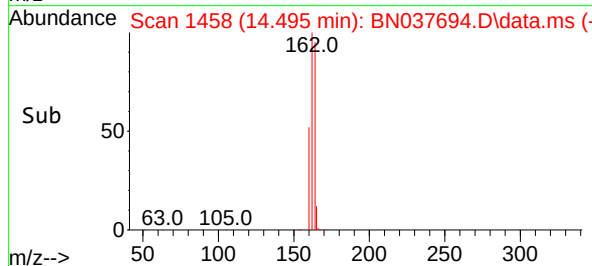
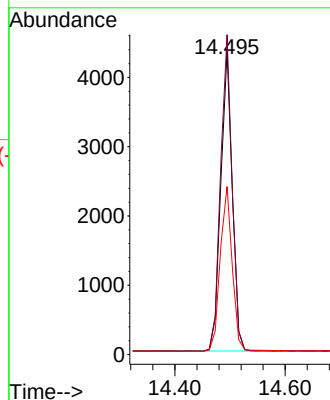
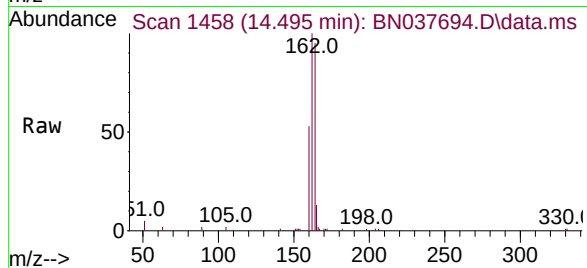
Tgt Ion:164 Resp: 6297

Ion Ratio Lower Upper

164 100

162 105.3 83.1 124.7

160 55.3 44.3 66.5



#14

2,4,6-Tribromophenol

Concen: 0.737 ng

RT: 15.982 min Scan# 1591

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

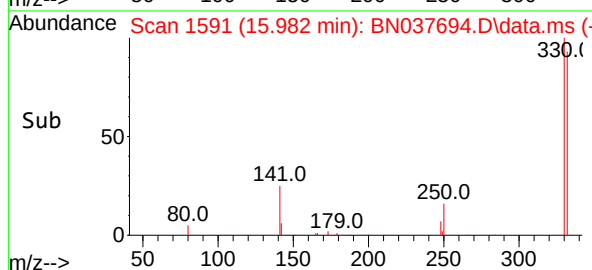
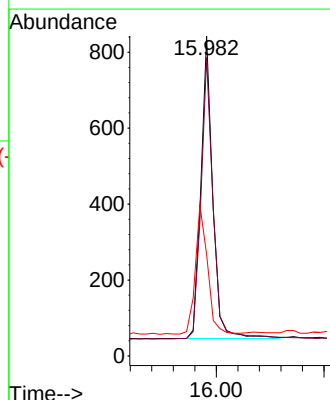
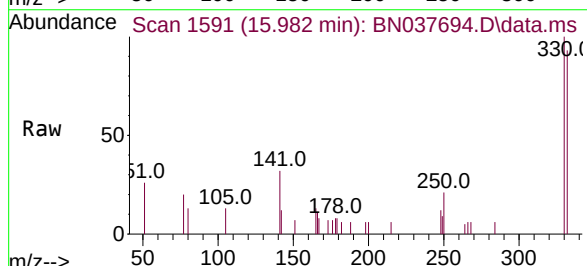
Tgt Ion:330 Resp: 1211

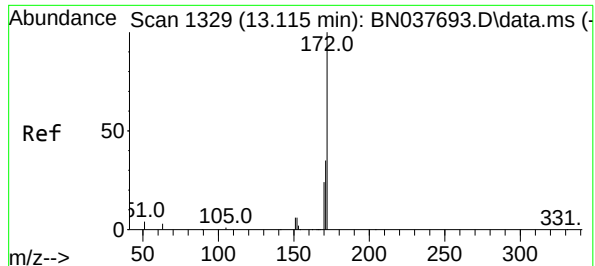
Ion Ratio Lower Upper

330 100

332 95.7 75.3 112.9

141 43.4 35.0 52.4

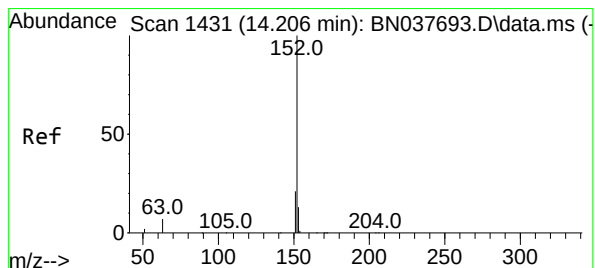
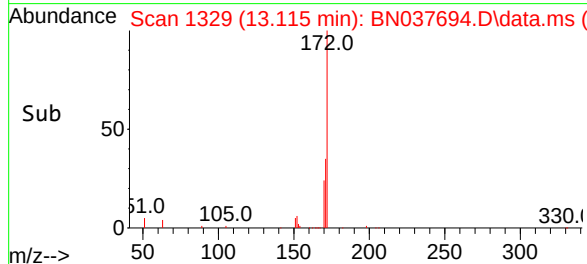
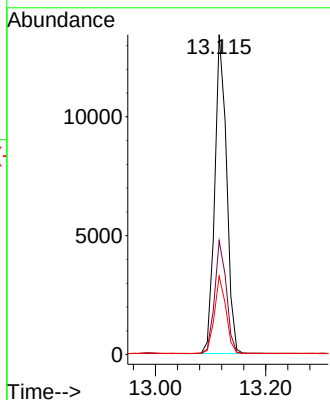
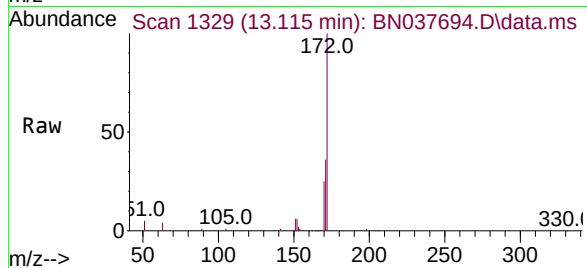




#15
2-Fluorobiphenyl
Concen: 0.758 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

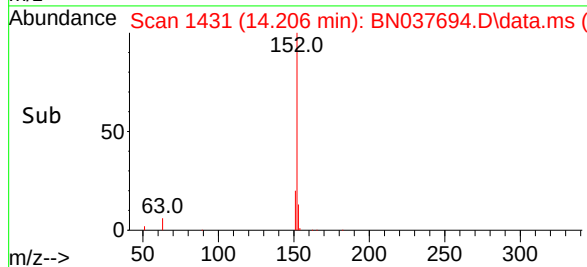
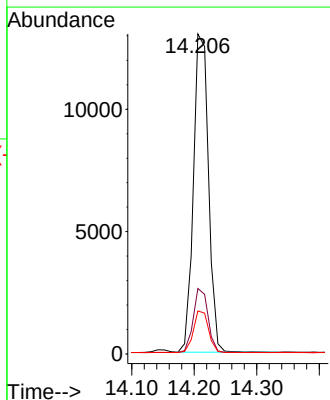
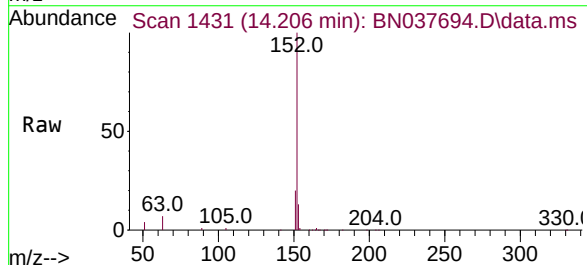
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

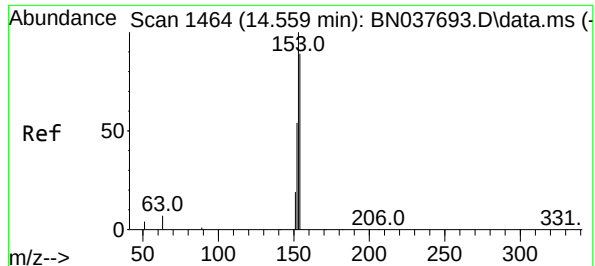
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.753 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

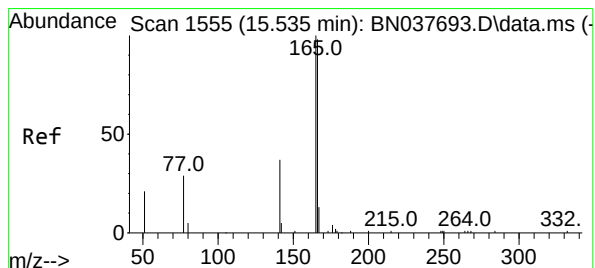
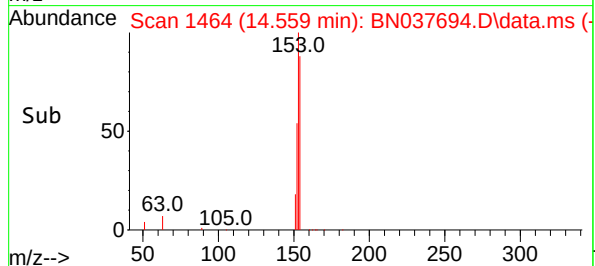
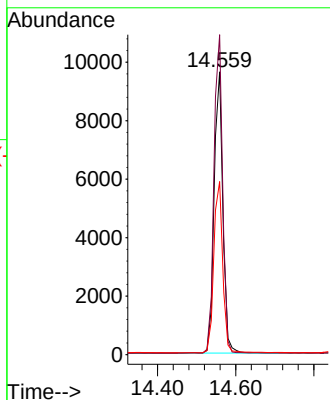
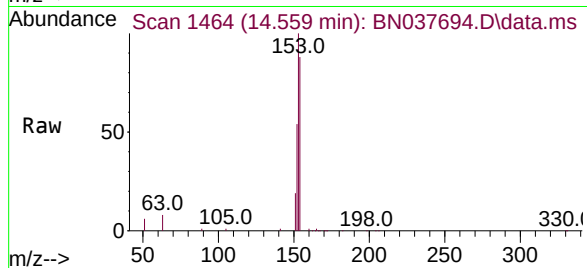




#17
Acenaphthene
Concen: 0.765 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

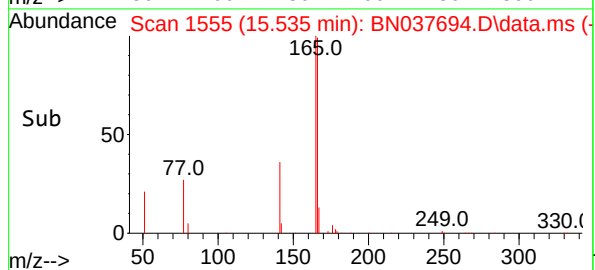
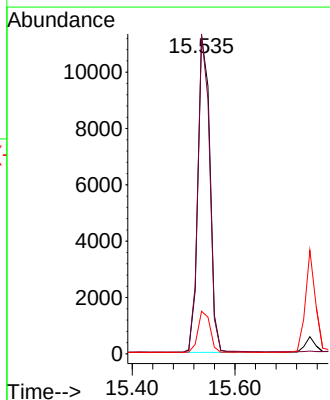
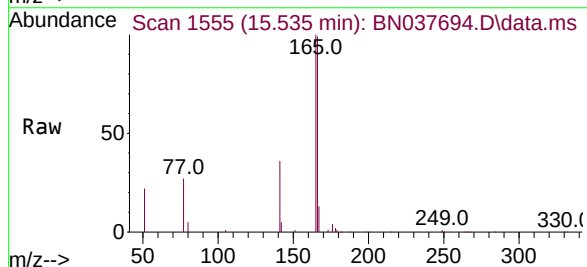
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

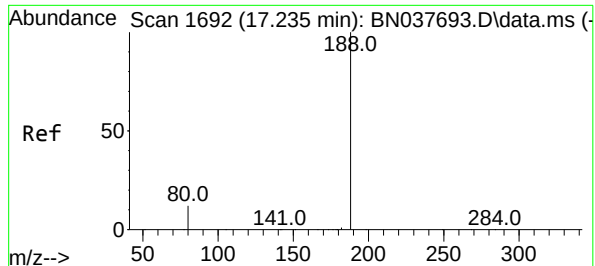
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.8	134.8
152	62.5	50.2	75.2



#18
Fluorene
Concen: 0.756 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.2	79.6	119.4
167	13.0	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

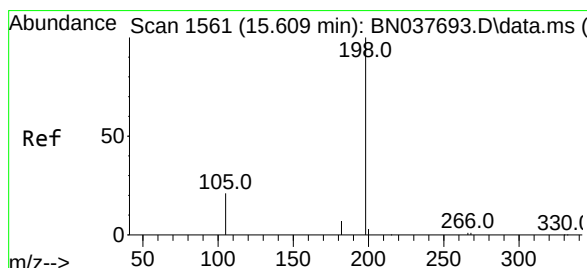
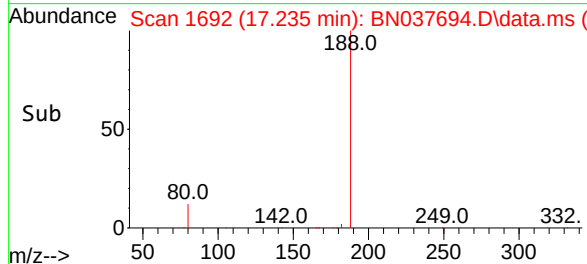
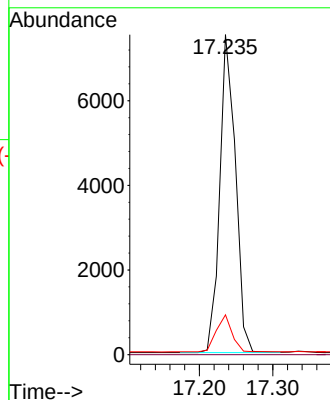
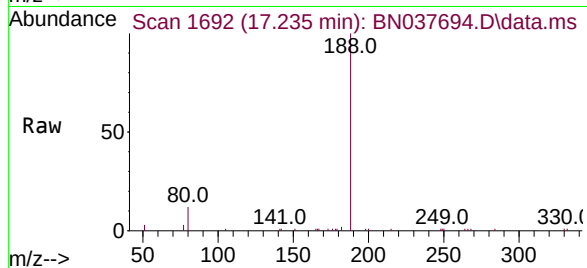
Tgt Ion:188 Resp: 11247

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.4 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.721 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

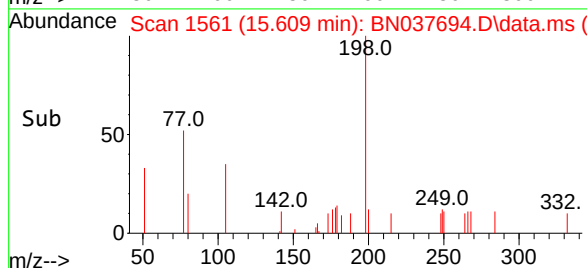
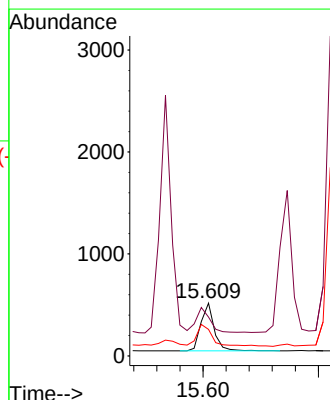
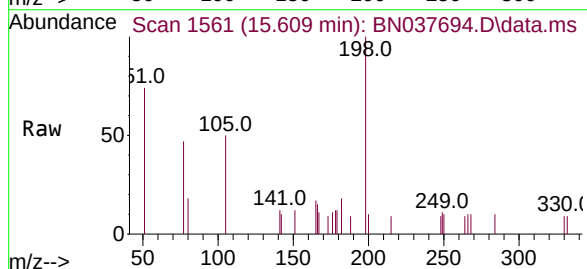
Tgt Ion:198 Resp: 751

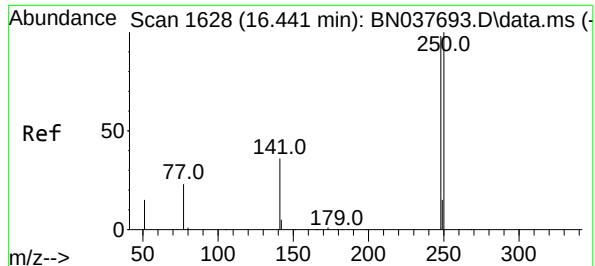
Ion Ratio Lower Upper

198 100

51 73.7 95.1 142.7#

105 50.3 53.8 80.6#

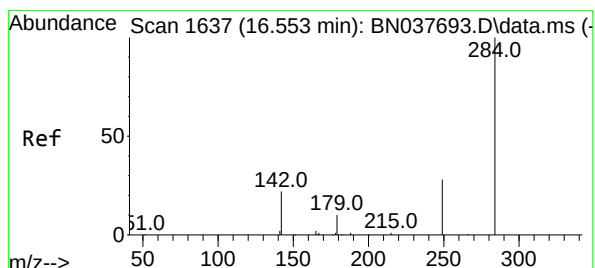
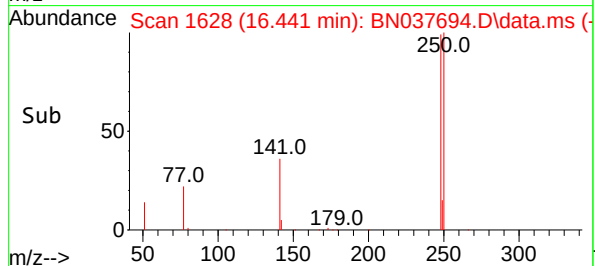
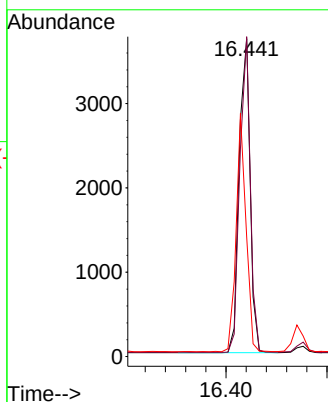
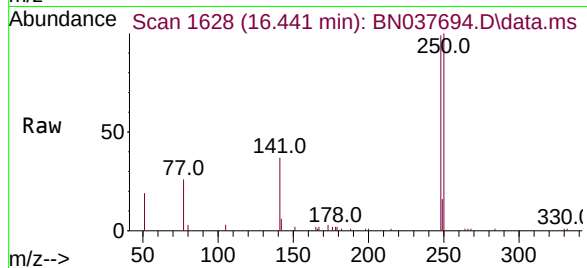




#21
4-Bromophenyl-phenylether
Concen: 0.760 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

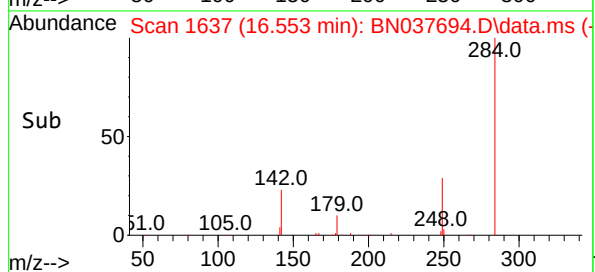
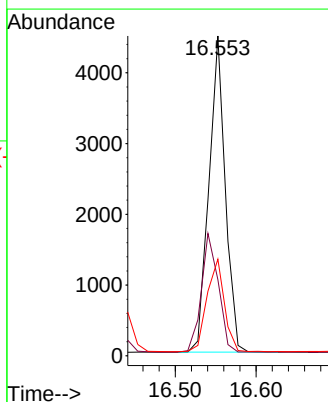
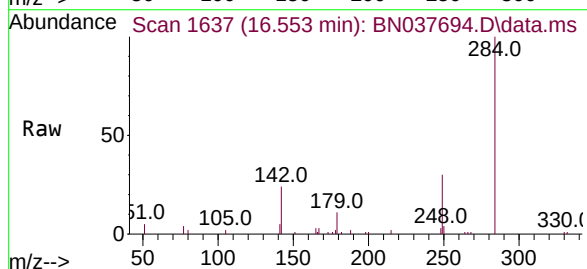
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

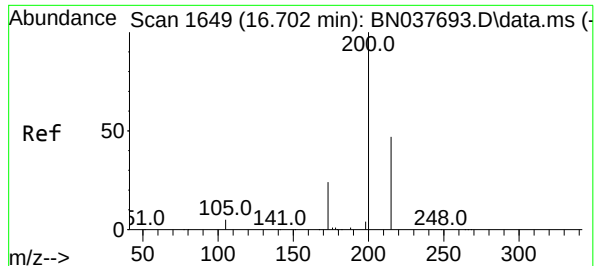
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	81.5	122.3
141	37.7	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.747 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	31.2	24.8	37.2





#23

Atrazine

Concen: 0.705 ng

RT: 16.702 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

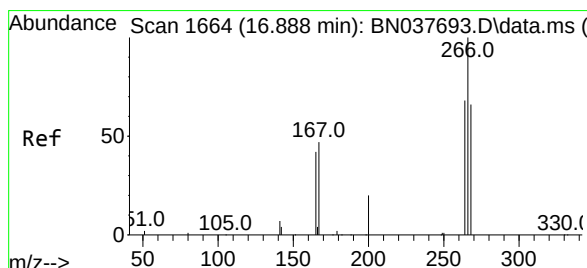
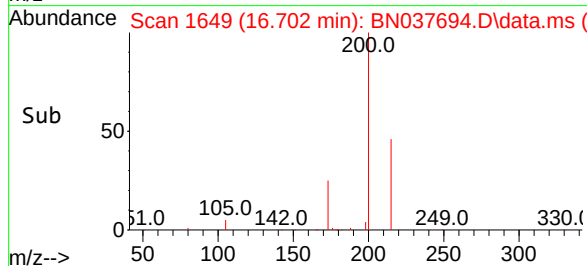
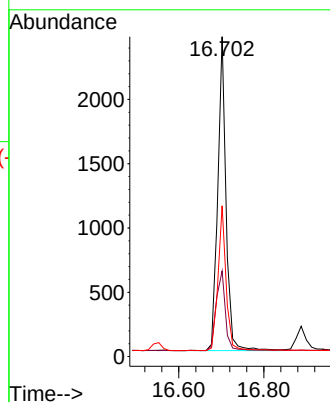
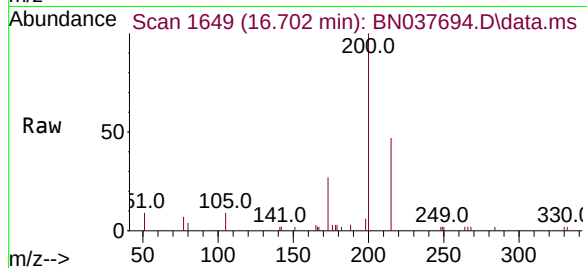
Tgt Ion:200 Resp: 3288

Ion Ratio Lower Upper

200 100

173 26.8 21.4 32.2

215 47.1 39.2 58.8



#24

Pentachlorophenol

Concen: 0.674 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

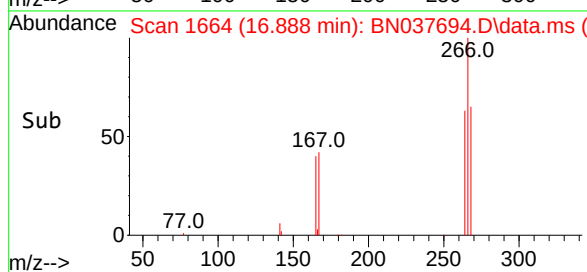
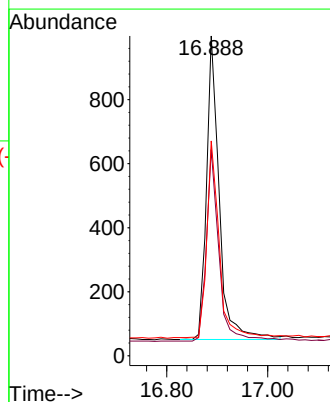
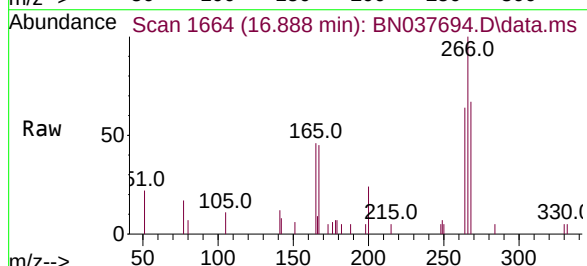
Tgt Ion:266 Resp: 1652

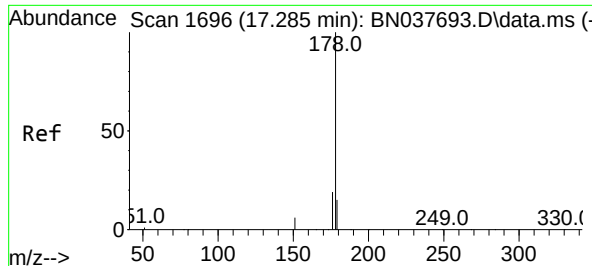
Ion Ratio Lower Upper

266 100

264 61.9 51.6 77.4

268 64.7 53.2 79.8





#25

Phenanthrene

Concen: 0.745 ng

RT: 17.285 min Scan# 1696

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

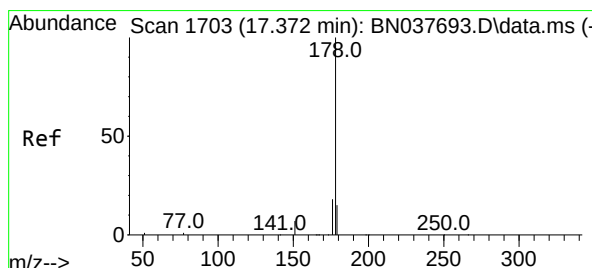
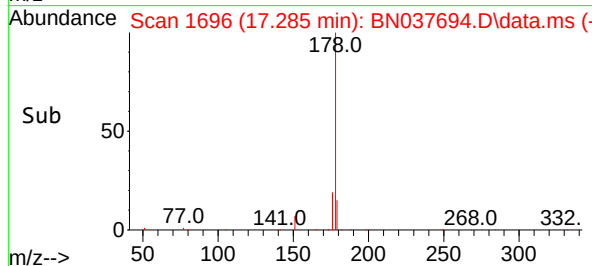
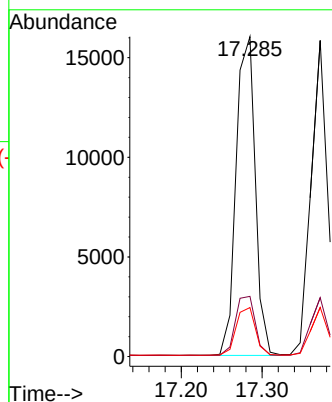
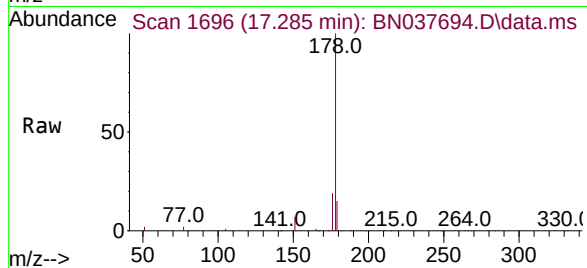
Tgt Ion:178 Resp: 26380

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.1 12.2 18.2



#26

Anthracene

Concen: 0.739 ng

RT: 17.372 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

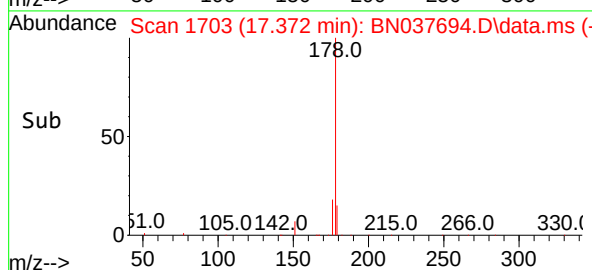
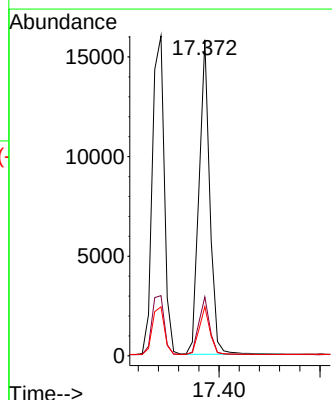
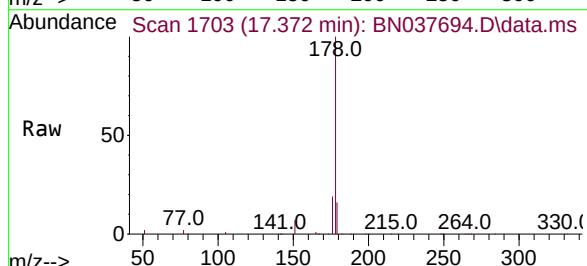
Tgt Ion:178 Resp: 23177

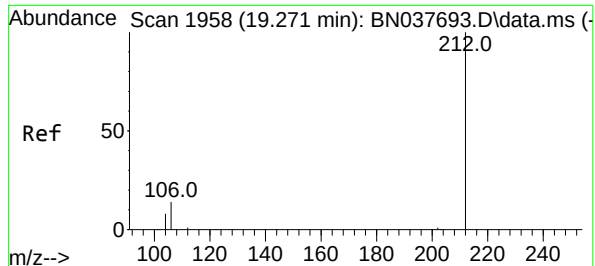
Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.704 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

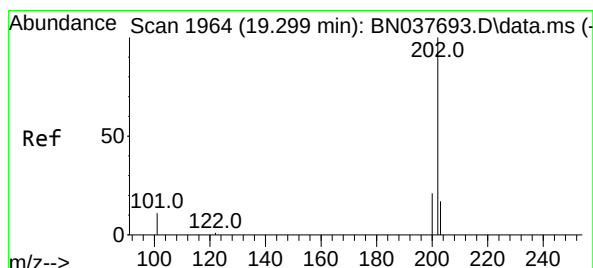
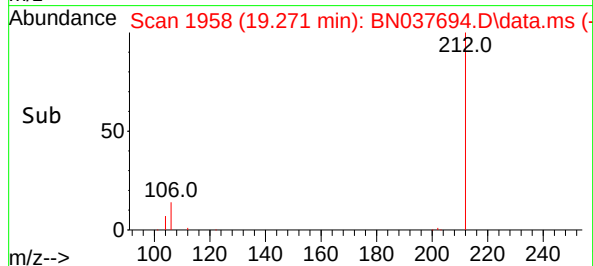
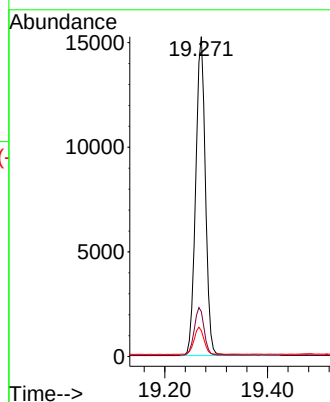
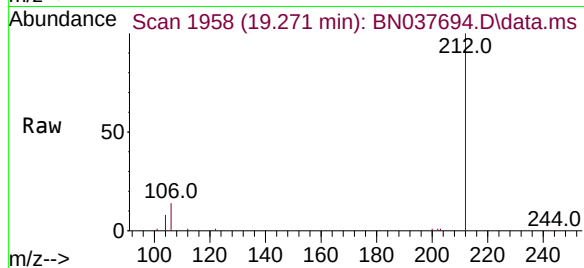
Tgt Ion:212 Resp: 19870

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.8 6.9 10.3



#28

Fluoranthene

Concen: 0.735 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

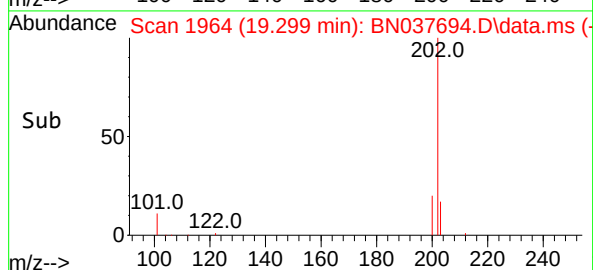
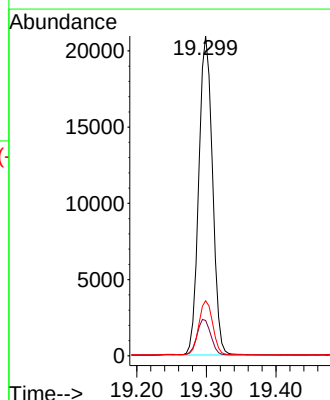
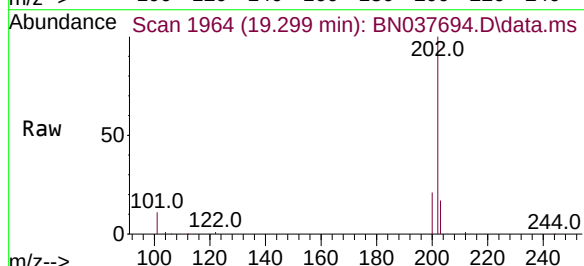
Tgt Ion:202 Resp: 28541

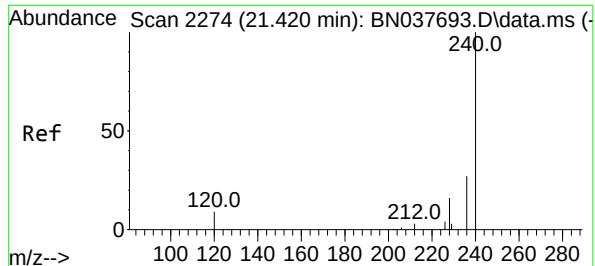
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

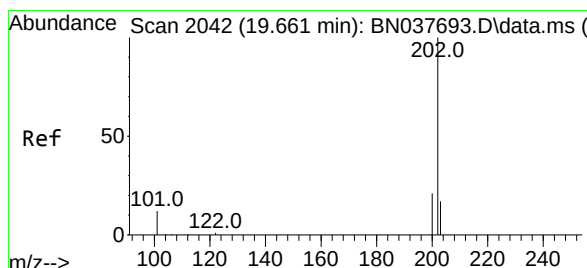
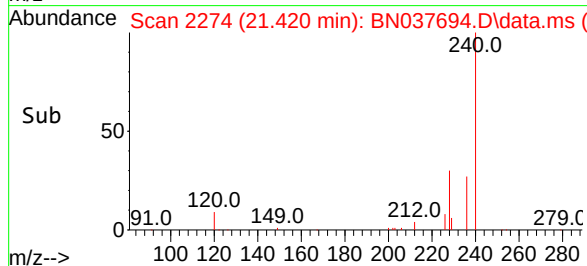
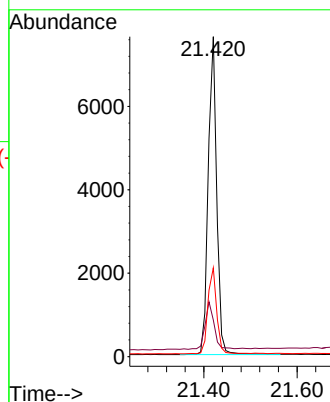
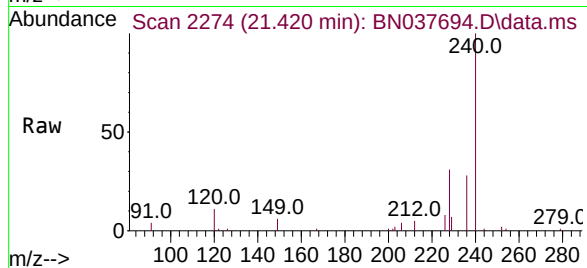
Tgt Ion:240 Resp: 9536

Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

236 27.7 22.6 33.8



#30

Pyrene

Concen: 0.752 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

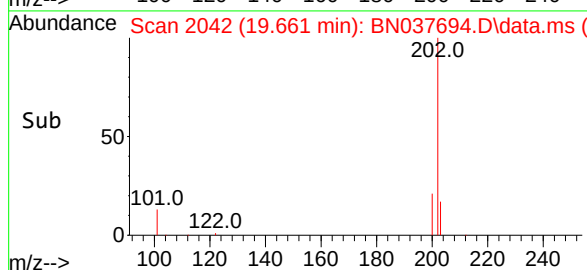
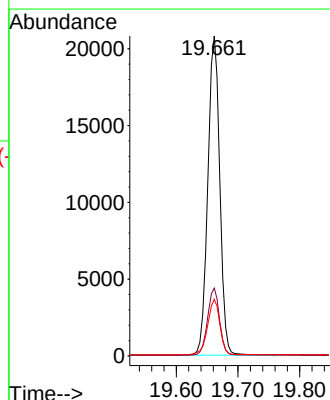
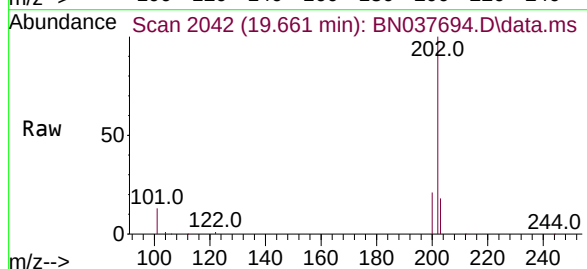
Tgt Ion:202 Resp: 28089

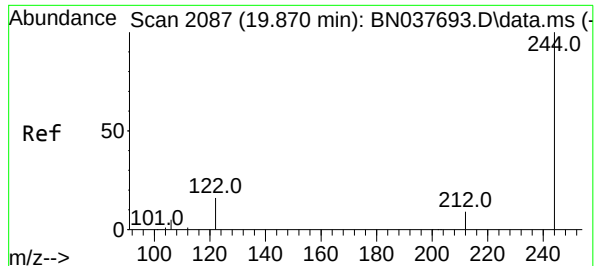
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5

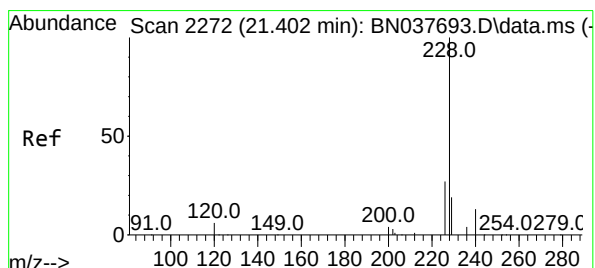
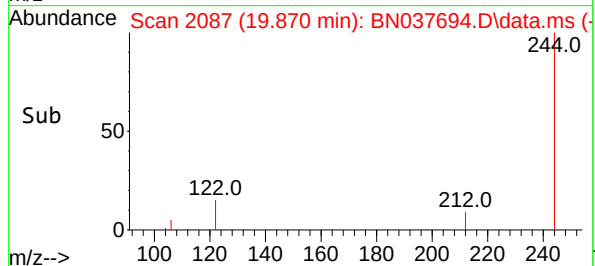
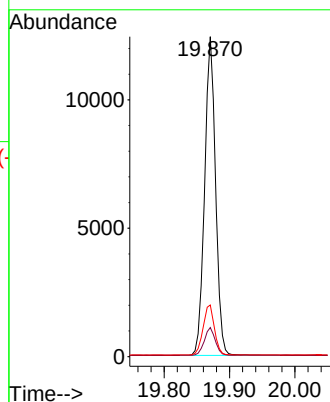
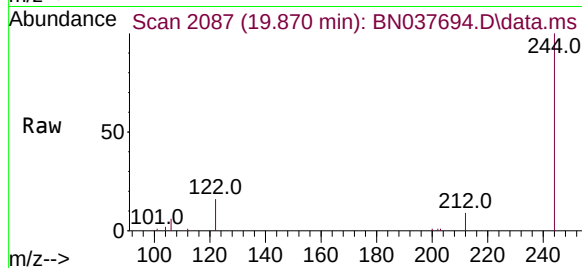




#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

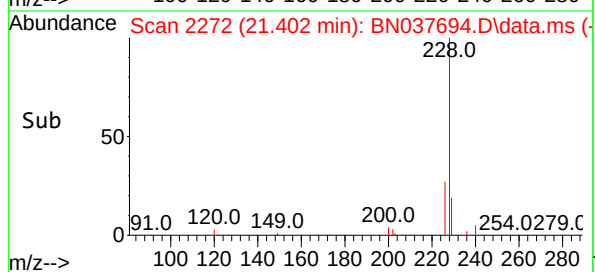
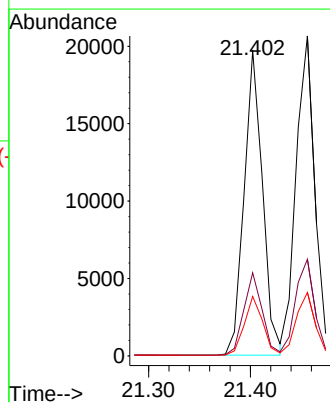
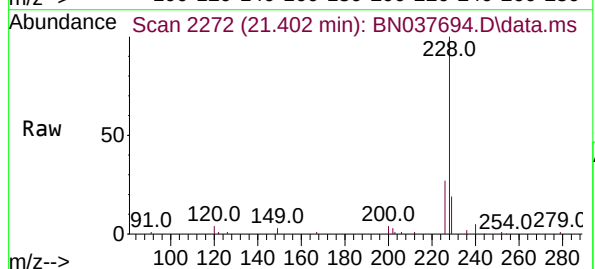
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

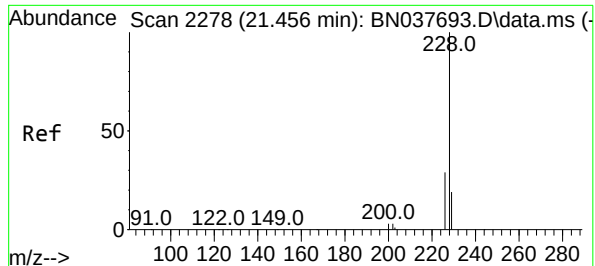
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	16.1	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.744 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037694.D
Acq: 11 Sep 2025 11:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.2
229	19.5	15.8	23.6





#33

Chrysene

Concen: 0.750 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

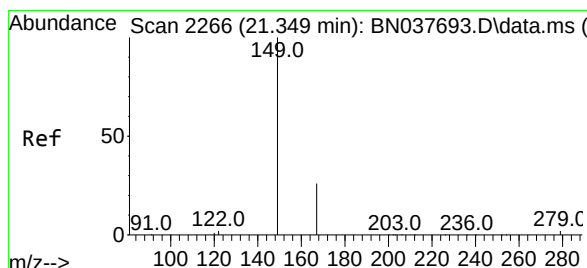
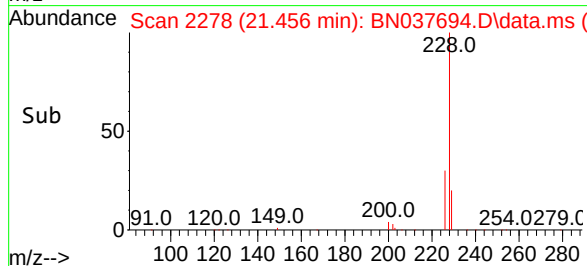
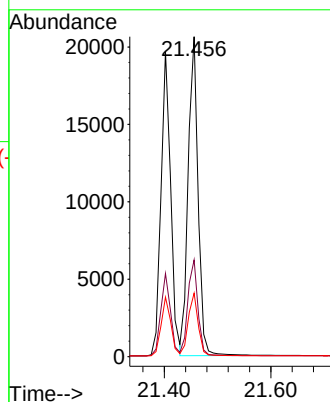
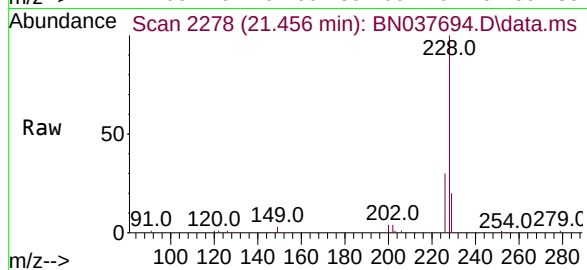
Tgt Ion:228 Resp: 26737

Ion Ratio Lower Upper

228 100

226 30.2 23.5 35.3

229 19.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.667 ng

RT: 21.349 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

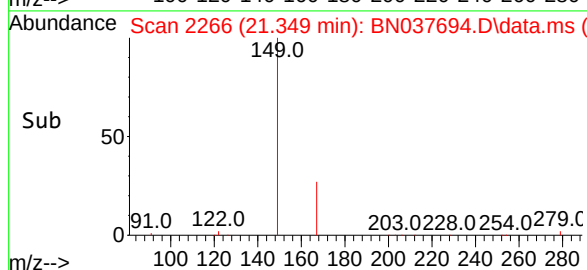
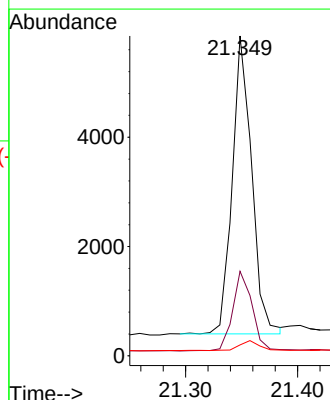
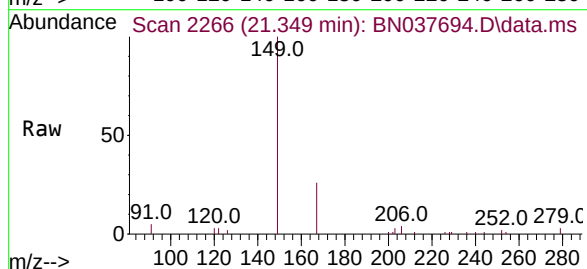
Tgt Ion:149 Resp: 6579

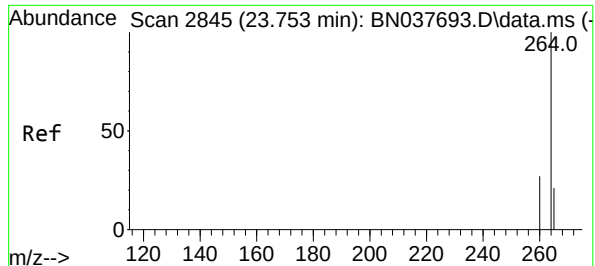
Ion Ratio Lower Upper

149 100

167 27.1 20.8 31.2

279 3.3 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.753 min Scan# 2845

Delta R.T. -0.000 min

Lab File: BN037694.D

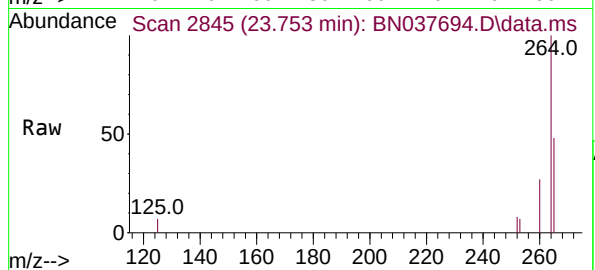
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



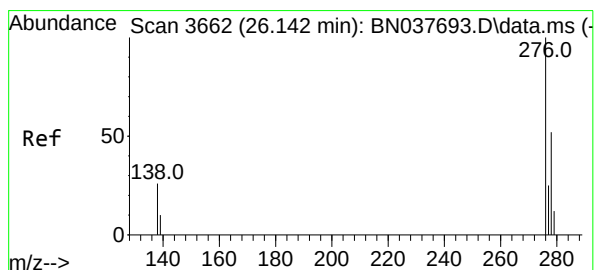
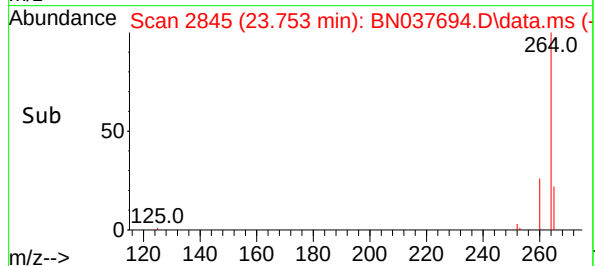
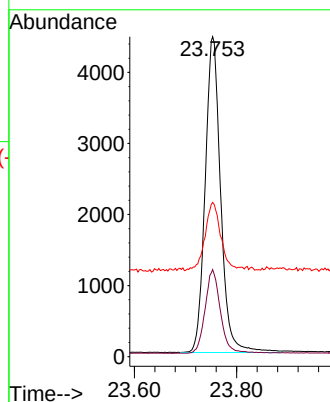
Tgt Ion:264 Resp: 9336

Ion Ratio Lower Upper

264 100

260 27.2 21.8 32.8

265 48.2 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.729 ng

RT: 26.142 min Scan# 3662

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

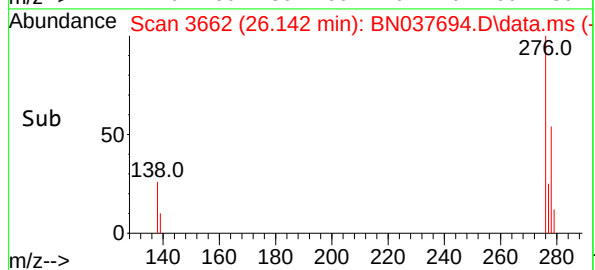
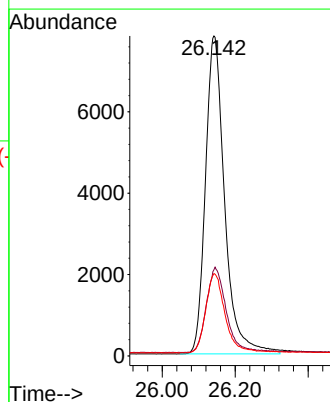
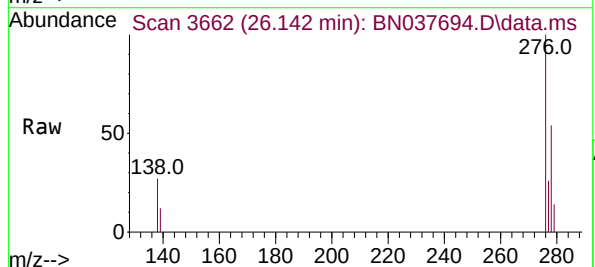
Tgt Ion:276 Resp: 28614

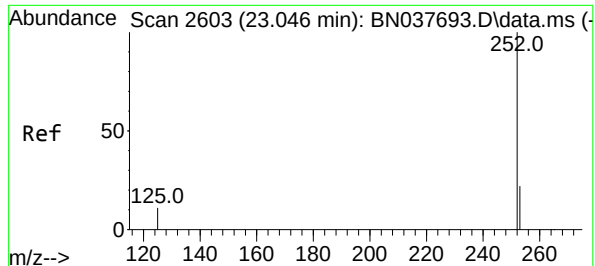
Ion Ratio Lower Upper

276 100

138 27.5 21.9 32.9

277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.733 ng

RT: 23.049 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

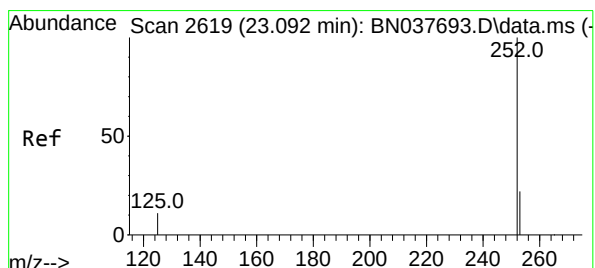
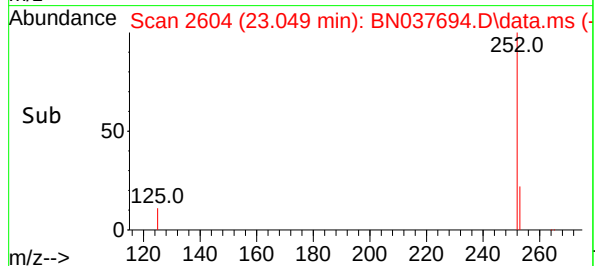
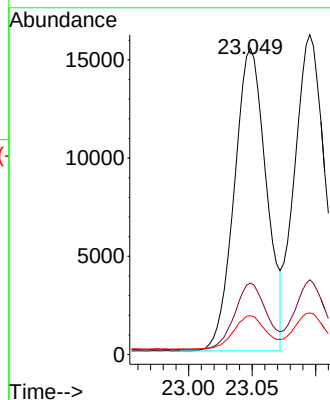
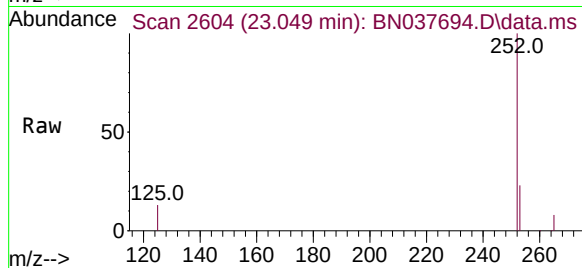
Tgt Ion:252 Resp: 26965

Ion Ratio Lower Upper

252 100

253 23.4 19.4 29.2

125 12.7 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.748 ng

RT: 23.095 min Scan# 2620

Delta R.T. 0.003 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

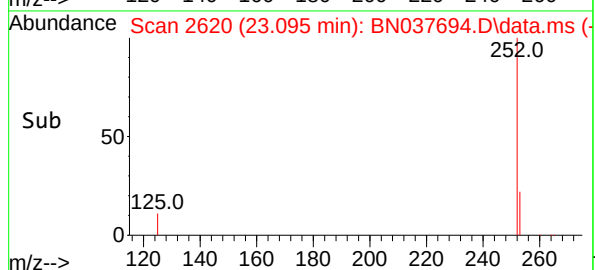
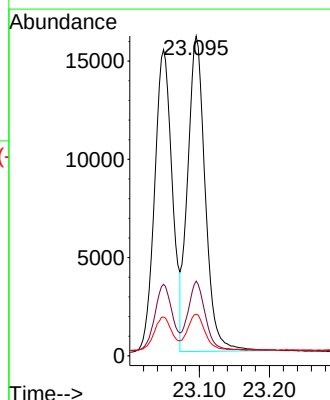
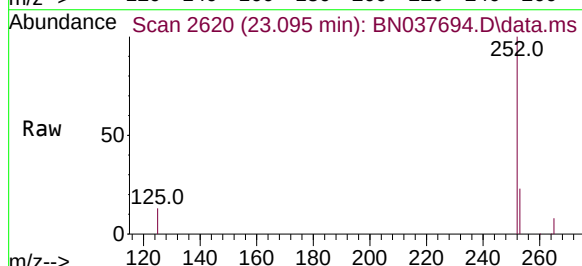
Tgt Ion:252 Resp: 28034

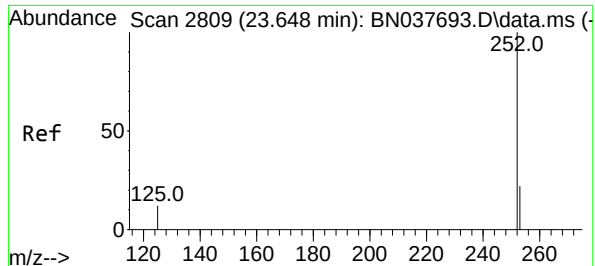
Ion Ratio Lower Upper

252 100

253 23.4 19.4 29.0

125 13.0 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.730 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

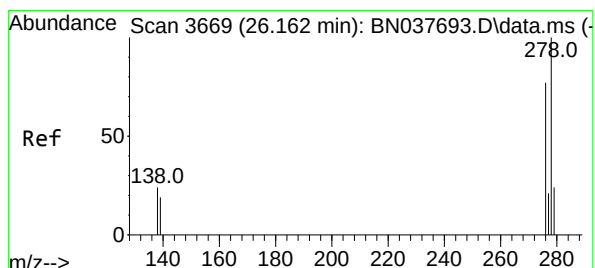
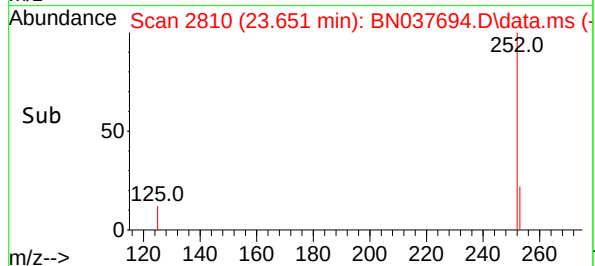
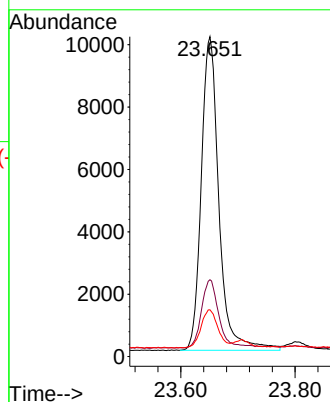
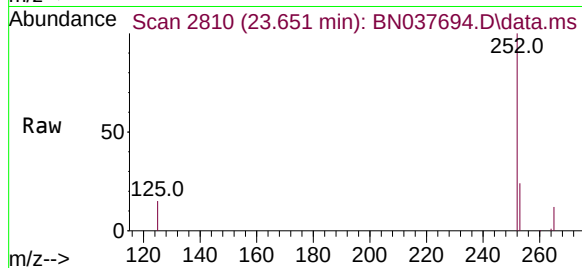
Tgt Ion:252 Resp: 21496

Ion Ratio Lower Upper

252 100

253 24.0 20.8 31.2

125 14.6 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.735 ng

RT: 26.162 min Scan# 3669

Delta R.T. -0.000 min

Lab File: BN037694.D

Acq: 11 Sep 2025 11:44

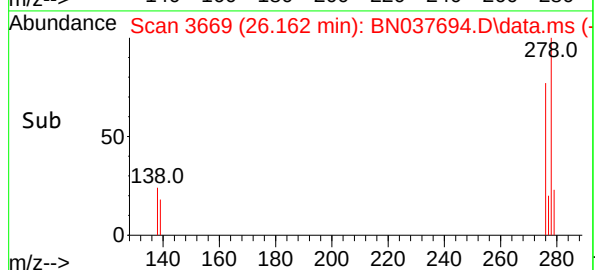
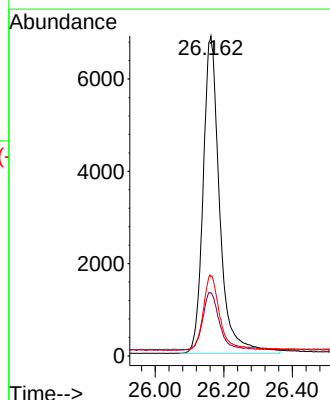
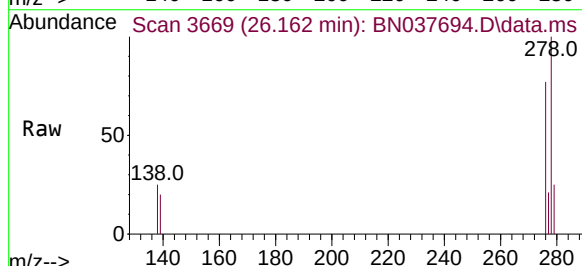
Tgt Ion:278 Resp: 23010

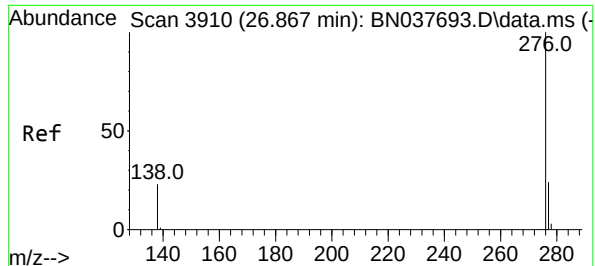
Ion Ratio Lower Upper

278 100

139 19.8 17.8 26.6

279 24.7 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.731 ng

RT: 26.867 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN037694.D

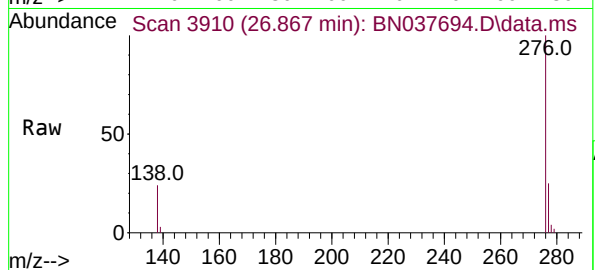
Acq: 11 Sep 2025 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



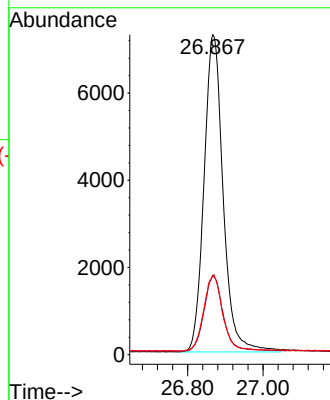
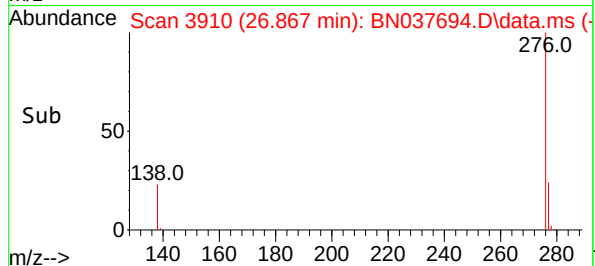
Tgt Ion:276 Resp: 25683

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 24.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037695.D
 Acq On : 11 Sep 2025 12:20
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

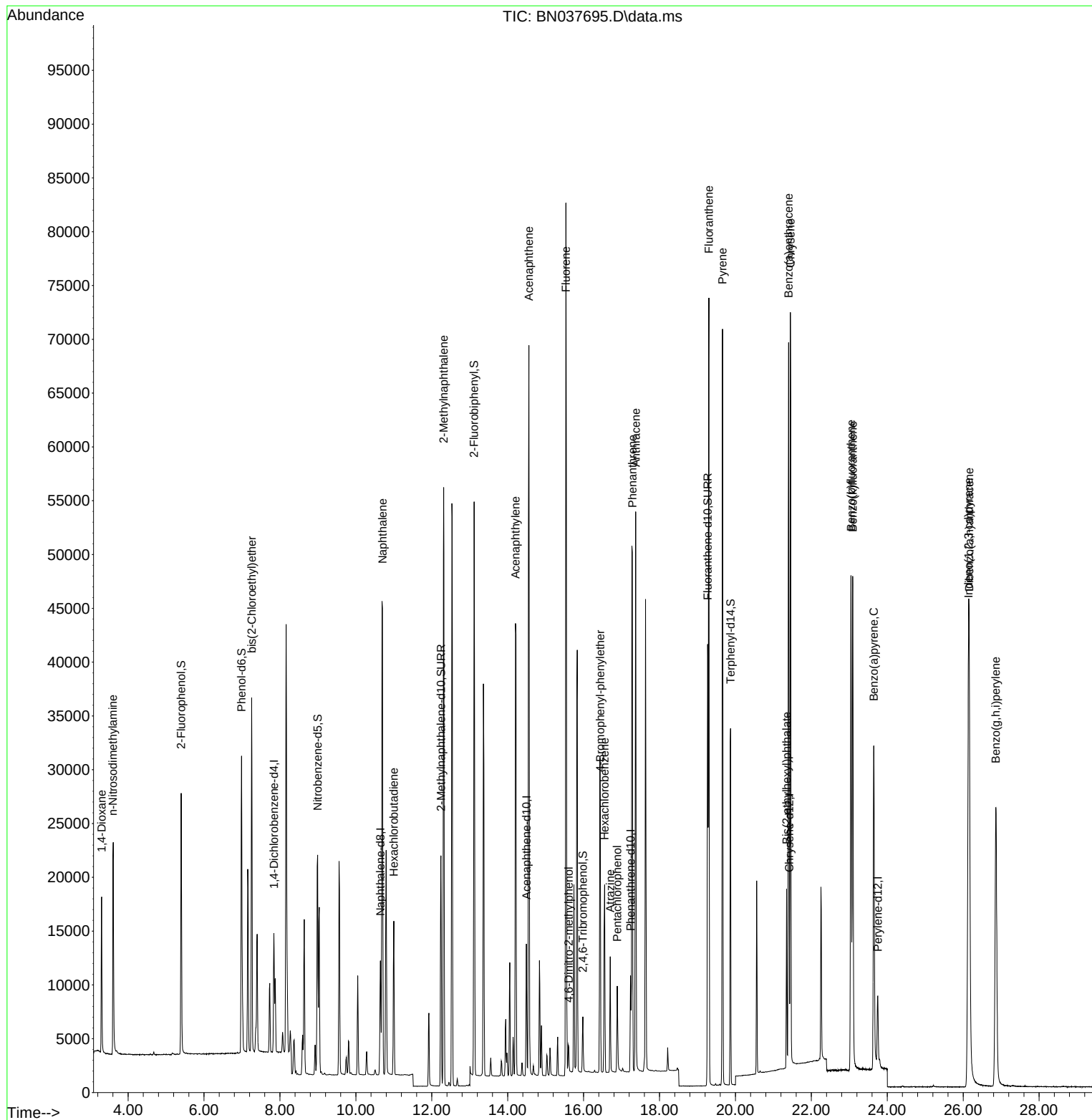
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5277	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13818	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6567	0.400	ng	0.00
19) Phenanthrene-d10	17.236	188	11496	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9743	0.400	ng	0.00
35) Perylene-d12	23.750	264	9111	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	19252	1.589	ng	0.00
5) Phenol-d6	6.988	99	25180	1.603	ng	0.00
8) Nitrobenzene-d5	8.993	82	16386	1.621	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	28843	1.576	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	2959	1.728	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	44363	1.615	ng	0.00
27) Fluoranthene-d10	19.267	212	43876	1.520	ng	0.00
31) Terphenyl-d14	19.871	244	31656	1.601	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.305	88	9125	1.660	ng	98
3) n-Nitrosodimethylamine	3.601	42	11726	1.633	ng	# 96
6) bis(2-Chloroethyl)ether	7.255	93	22759	1.622	ng	99
9) Naphthalene	10.701	128	61726	1.634	ng	99
10) Hexachlorobutadiene	11.000	225	11208	1.640	ng	# 100
12) 2-Methylnaphthalene	12.314	142	38501	1.648	ng	99
16) Acenaphthylene	14.206	152	49508	1.644	ng	100
17) Acenaphthene	14.559	154	33424	1.641	ng	99
18) Fluorene	15.535	166	40588	1.646	ng	99
20) 4,6-Dinitro-2-methylph...	15.610	198	1837	1.725	ng	# 46
21) 4-Bromophenyl-phenylether	16.441	248	12511	1.669	ng	98
22) Hexachlorobenzene	16.553	284	14034	1.628	ng	99
23) Atrazine	16.702	200	7765	1.628	ng	97
24) Pentachlorophenol	16.888	266	3932	1.571	ng	98
25) Phenanthrene	17.285	178	59082	1.632	ng	100
26) Anthracene	17.372	178	52416	1.635	ng	100
28) Fluoranthene	19.299	202	64074	1.614	ng	100
30) Pyrene	19.661	202	62457	1.638	ng	100
32) Benzo(a)anthracene	21.402	228	54932	1.616	ng	99
33) Chrysene	21.447	228	58866	1.615	ng	97
34) Bis(2-ethylhexyl)phtha...	21.349	149	14814	1.470	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.139	276	65254	1.705	ng	100
37) Benzo(b)fluoranthene	23.043	252	59639	1.662	ng	95
38) Benzo(k)fluoranthene	23.090	252	62123	1.698	ng	96
39) Benzo(a)pyrene	23.645	252	47897	1.667	ng	# 92
40) Dibenzo(a,h)anthracene	26.159	278	53306	1.744	ng	93
41) Benzo(g,h,i)perylene	26.858	276	57151	1.666	ng	97

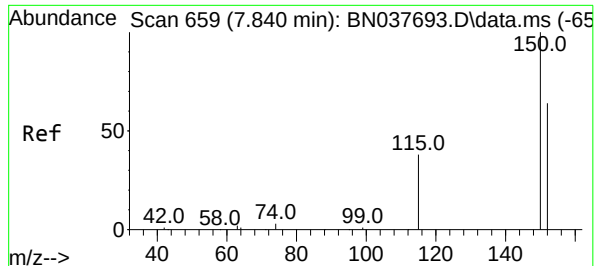
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037695.D
Acq On : 11 Sep 2025 12:20
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 11 14:06:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

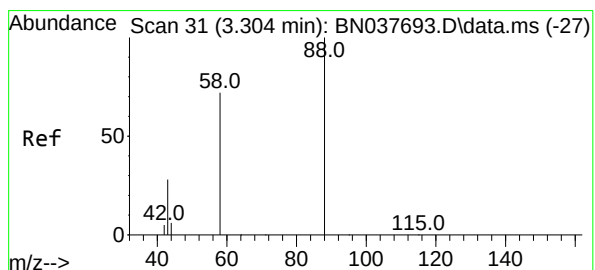
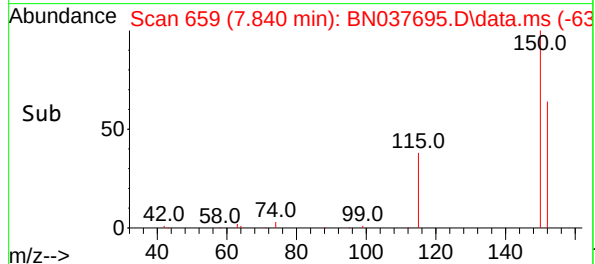
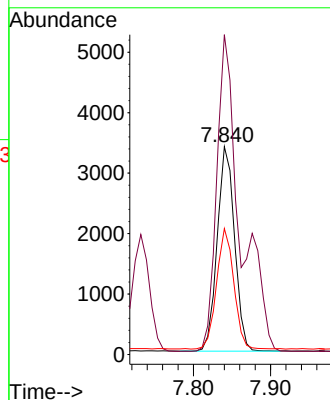
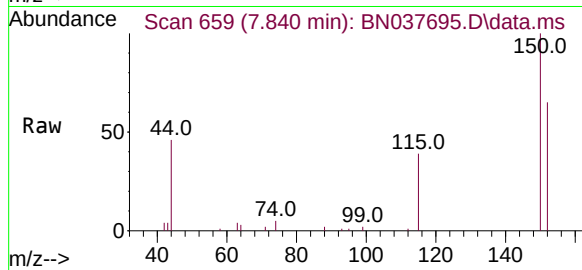




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

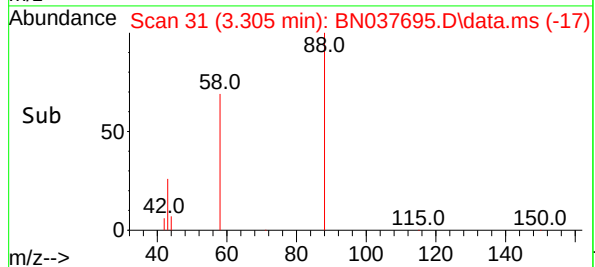
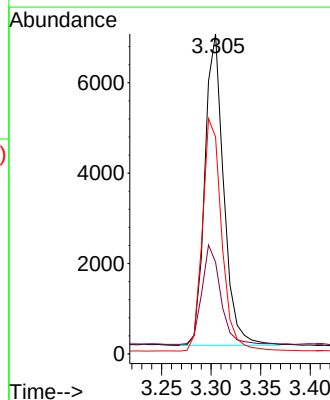
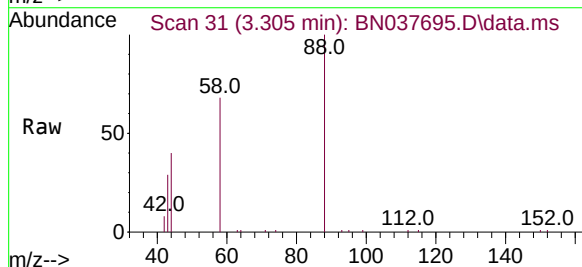
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

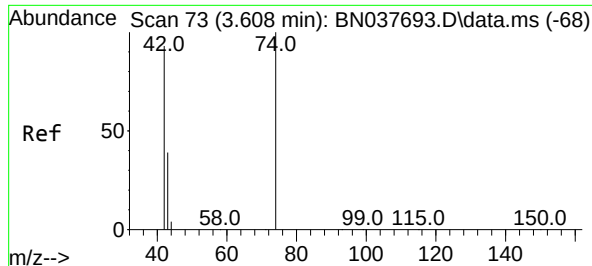
Tgt Ion:152 Resp: 5277
Ion Ratio Lower Upper
152 100
150 153.9 124.5 186.7
115 60.6 49.2 73.8



#2
1,4-Dioxane
Concen: 1.660 ng
RT: 3.305 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 88 Resp: 9125
Ion Ratio Lower Upper
88 100
43 31.6 26.8 40.2
58 76.5 61.9 92.9

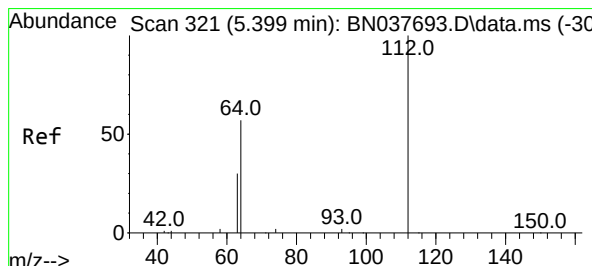
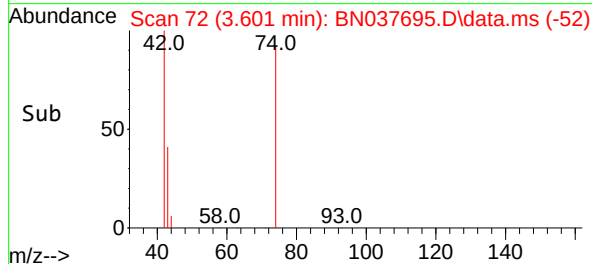
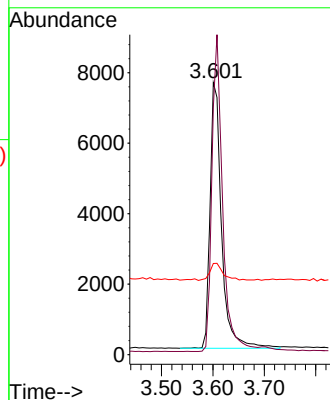
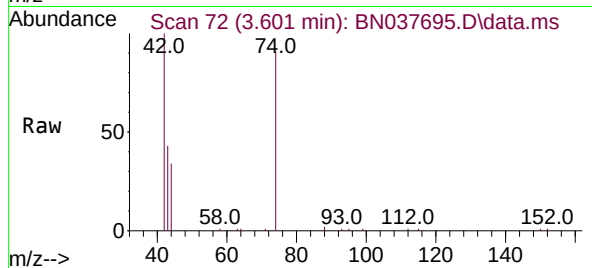




#3
n-Nitrosodimethylamine
Concen: 1.633 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

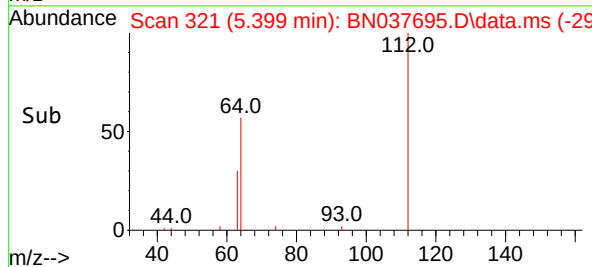
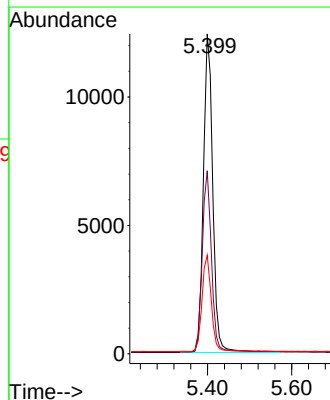
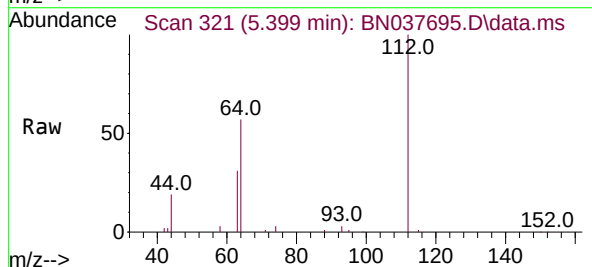
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

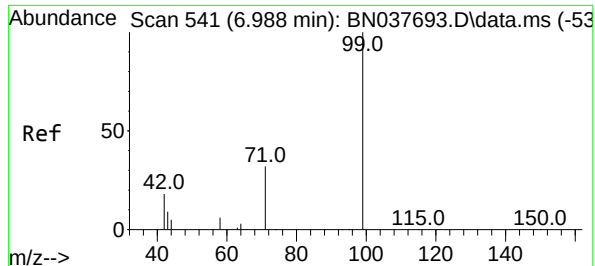
Tgt Ion: 42 Resp: 11726
Ion Ratio Lower Upper
42 100
74 111.0 86.0 129.0
44 7.4 8.4 12.6#



#4
2-Fluorophenol
Concen: 1.589 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 112 Resp: 19252
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.9 24.7 37.1

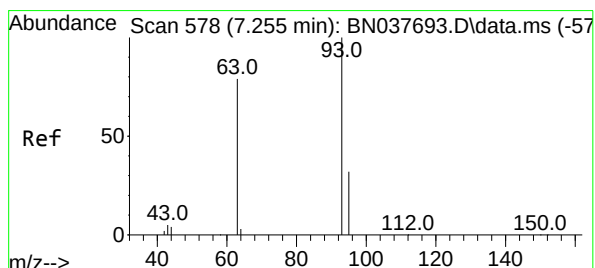
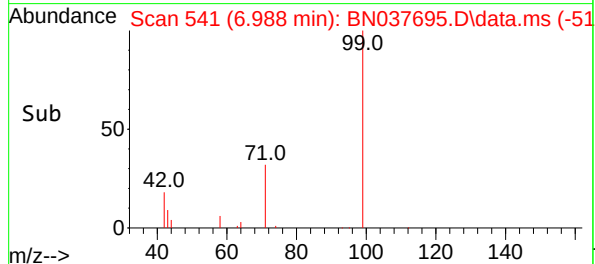
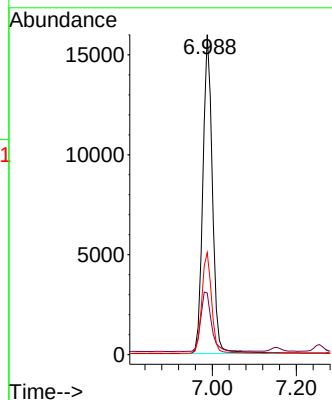
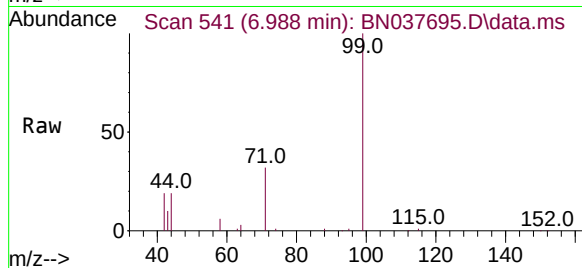




#5
Phenol-d6
Concen: 1.603 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

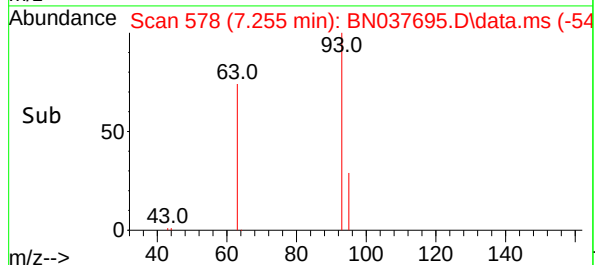
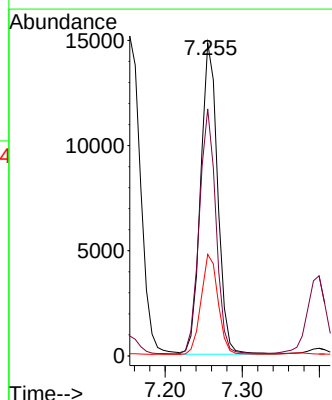
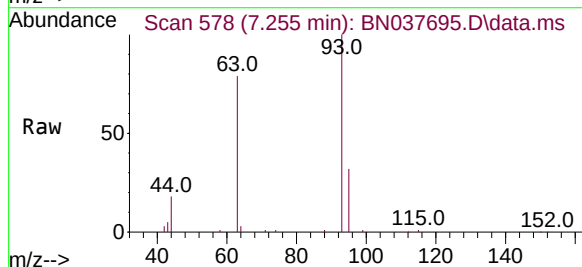
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

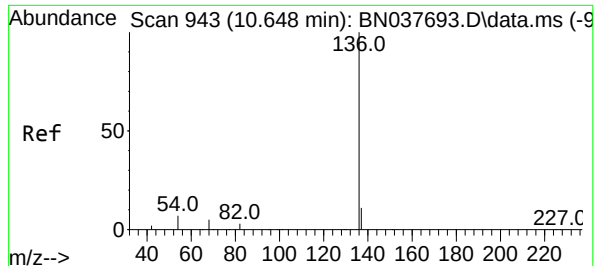
Tgt Ion: 99 Resp: 25180
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 32.5 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 1.622 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion: 93 Resp: 22759
Ion Ratio Lower Upper
93 100
63 76.7 60.6 90.8
95 32.0 26.0 39.0

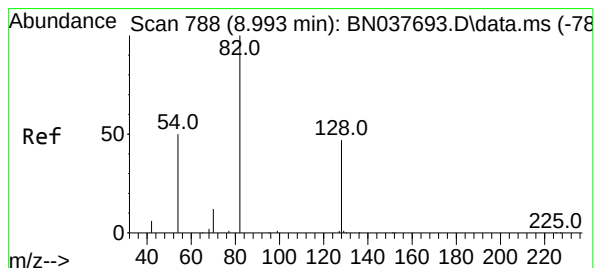
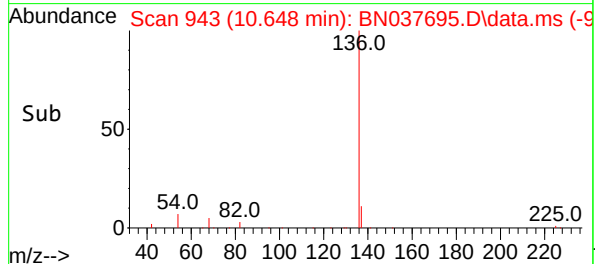
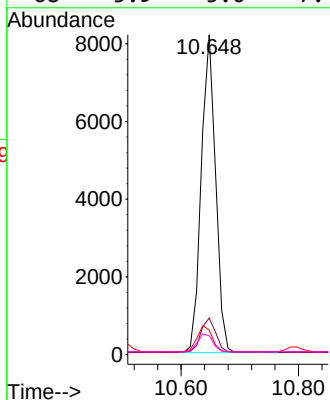
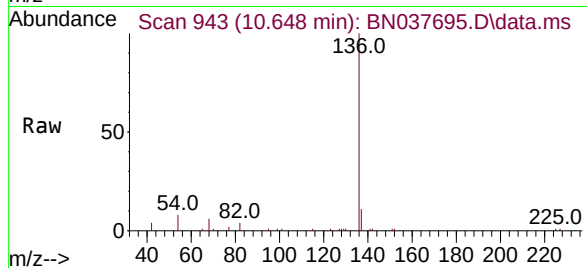




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

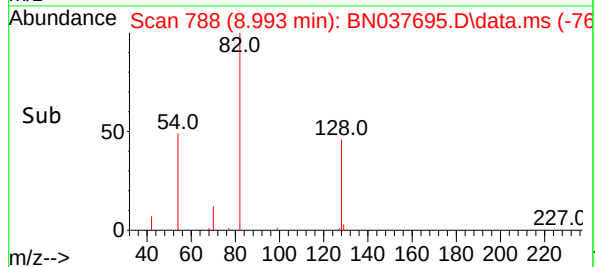
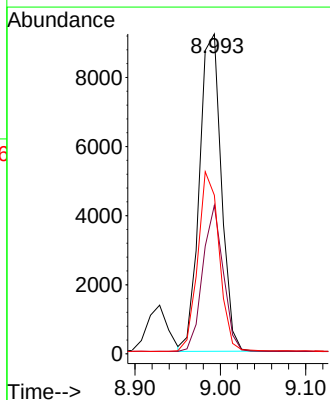
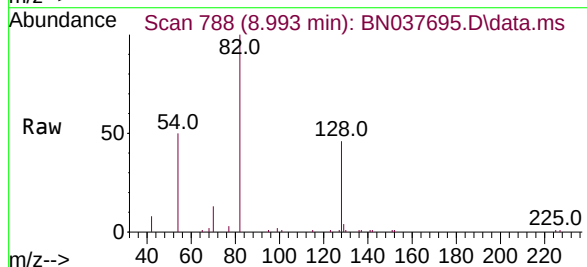
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

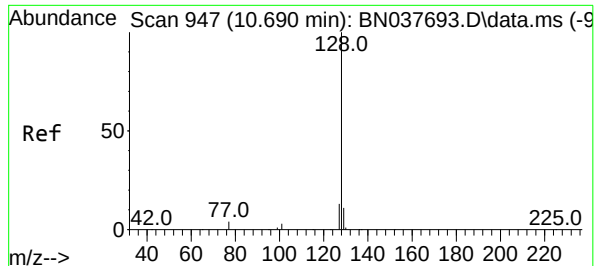
Tgt Ion:	136	Resp:	13818
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 1.621 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:	82	Resp:	16386
Ion	Ratio	Lower	Upper
82	100		
128	46.4	38.3	57.5
54	49.6	41.4	62.2

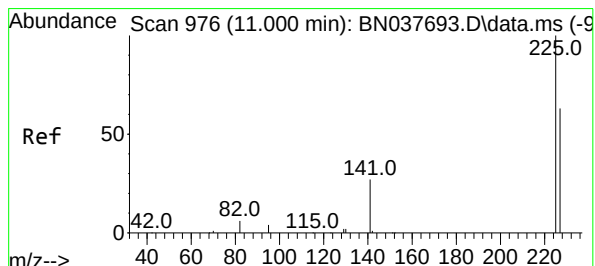
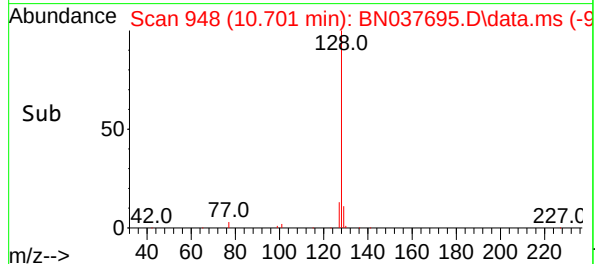
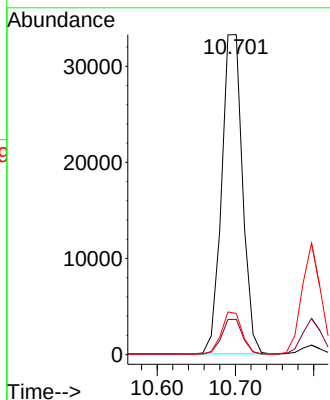
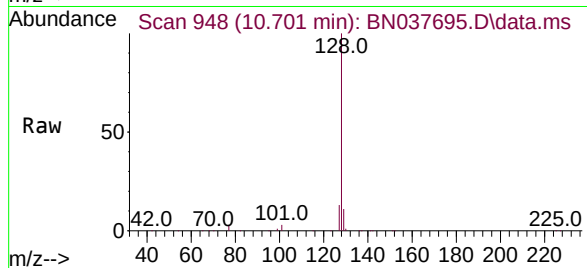




#9
Naphthalene
Concen: 1.634 ng
RT: 10.701 min Scan# 947
Delta R.T. 0.011 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

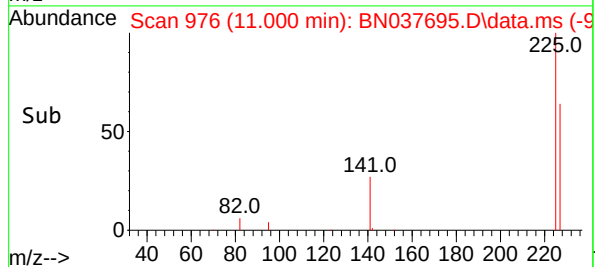
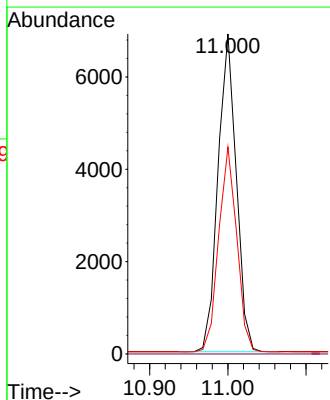
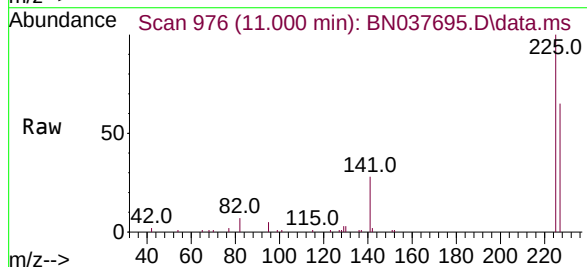
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

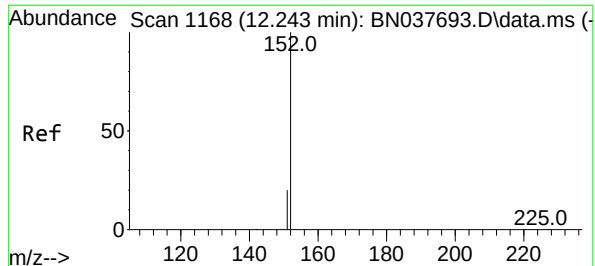
Tgt Ion:128 Resp: 61726
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.9 10.9 16.3



#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:225 Resp: 11208
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.9 76.3

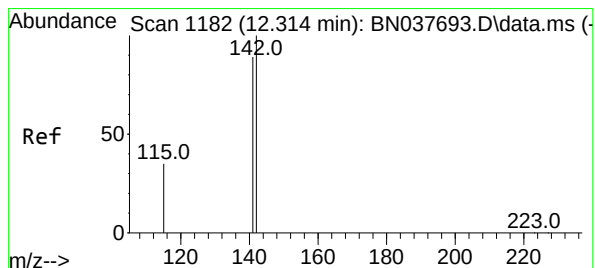
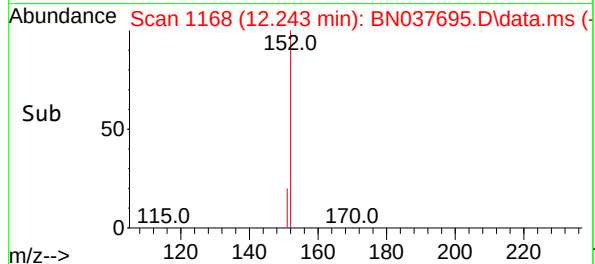
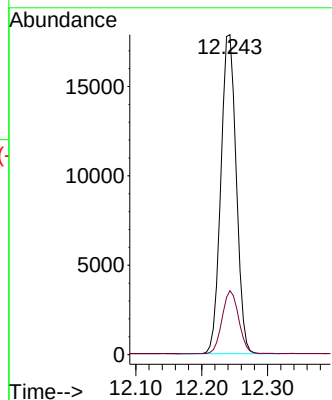
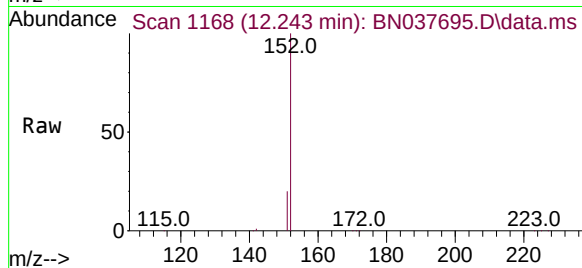




#11
2-Methylnaphthalene-d10
Concen: 1.576 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

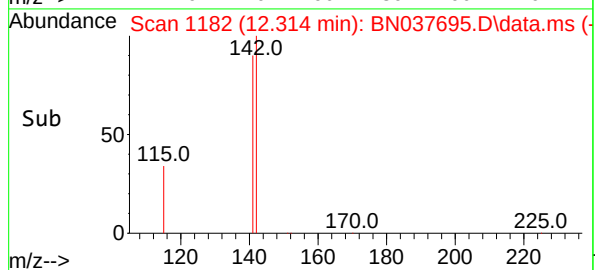
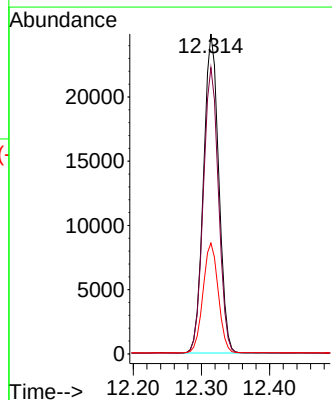
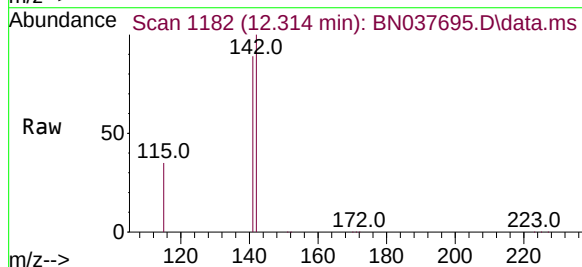
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

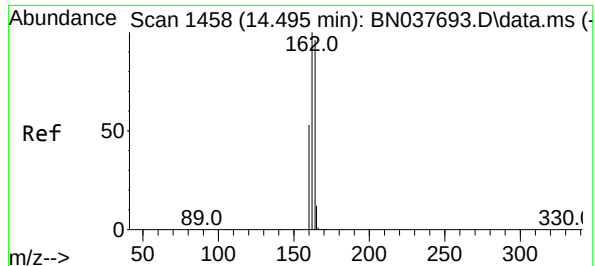
Tgt Ion:152 Resp: 28843
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.648 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:142 Resp: 38501
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 34.6 28.6 43.0

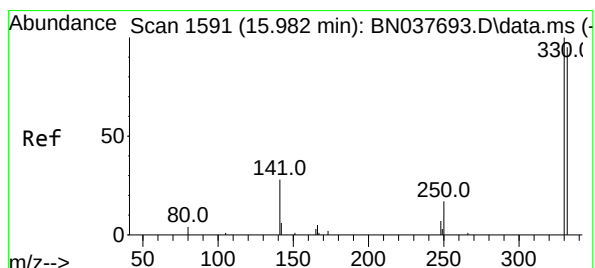
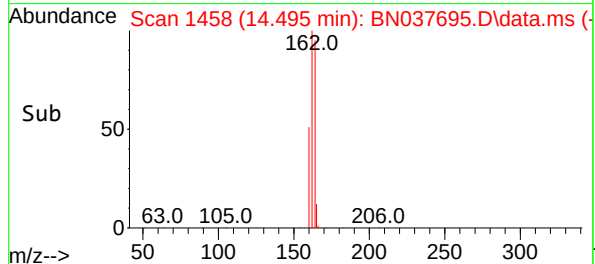
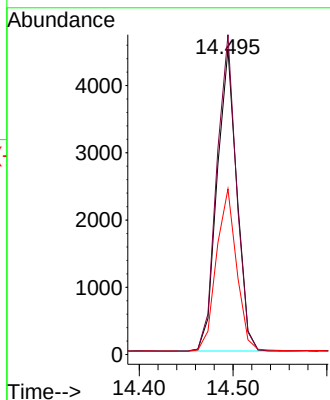
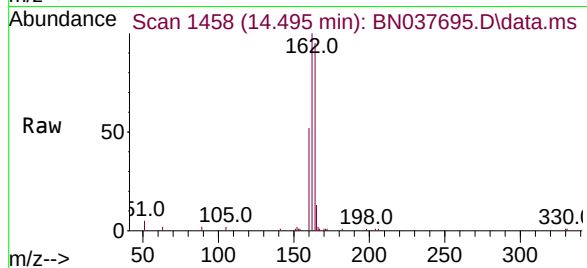




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

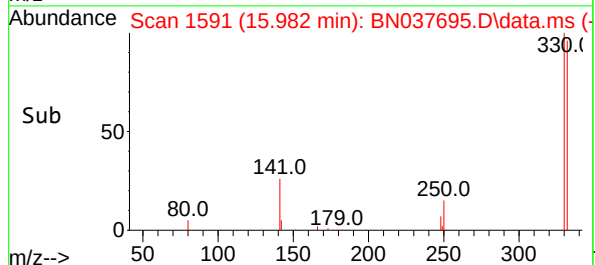
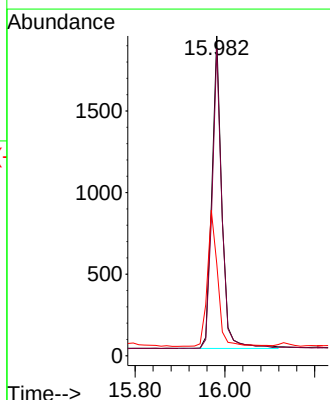
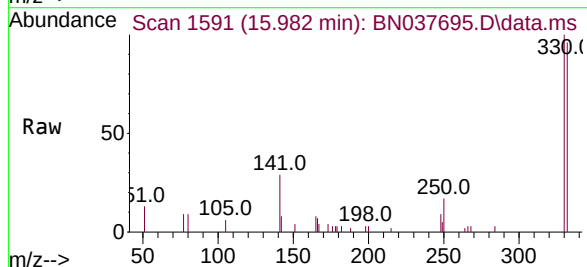
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

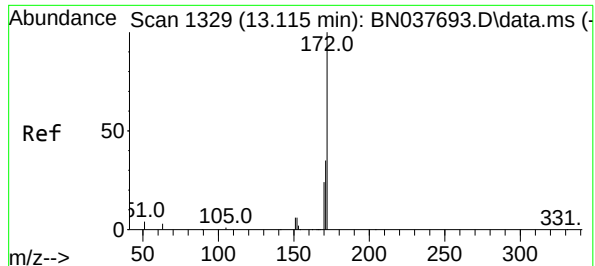
Tgt Ion:164 Resp: 6567
Ion Ratio Lower Upper
164 100
162 104.8 83.1 124.7
160 54.2 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 1.728 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion:330 Resp: 2959
Ion Ratio Lower Upper
330 100
332 95.0 75.3 112.9
141 45.3 35.0 52.4





#15

2-Fluorobiphenyl

Concen: 1.615 ng

RT: 13.116 min Scan# 1329

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

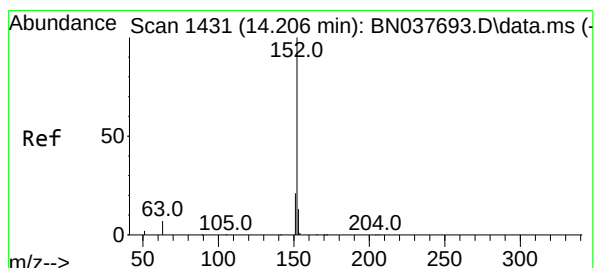
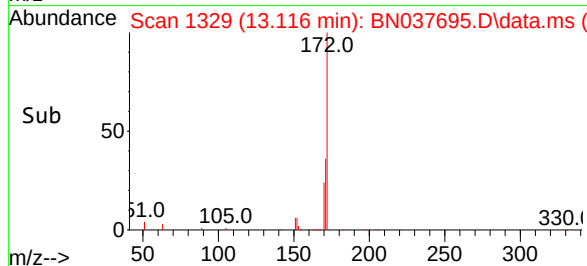
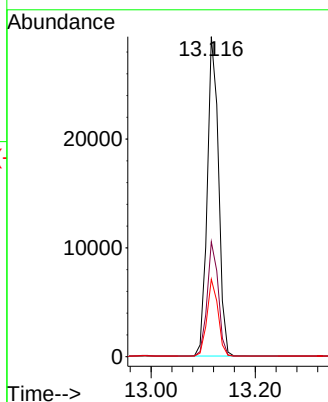
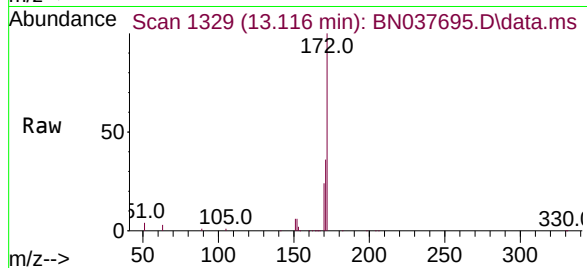
Tgt Ion:172 Resp: 44363

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

170 24.2 19.8 29.8



#16

Acenaphthylene

Concen: 1.644 ng

RT: 14.206 min Scan# 1431

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

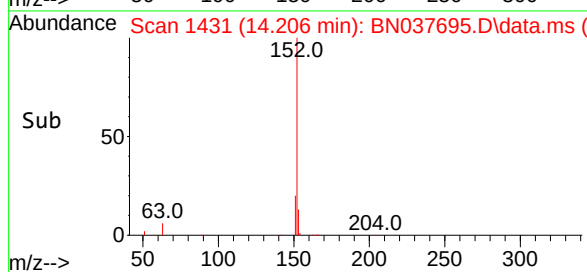
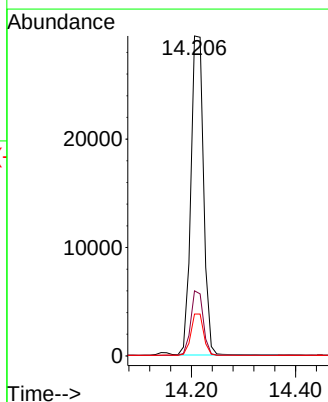
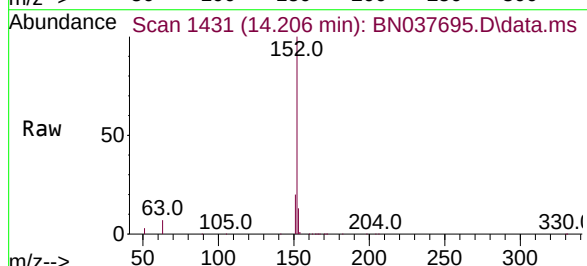
Tgt Ion:152 Resp: 49508

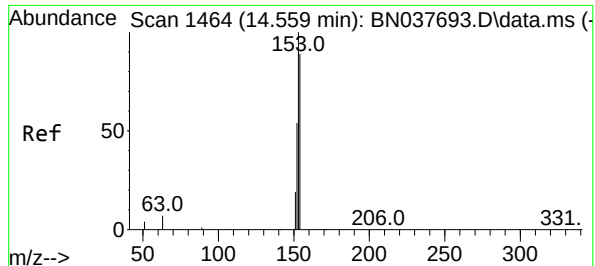
Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 1.641 ng

RT: 14.559 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

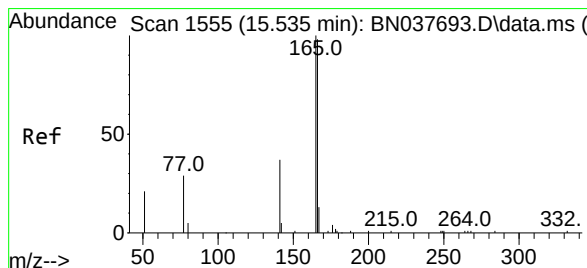
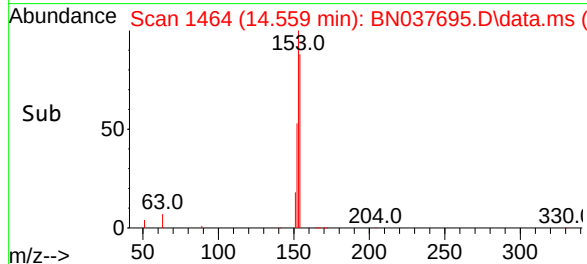
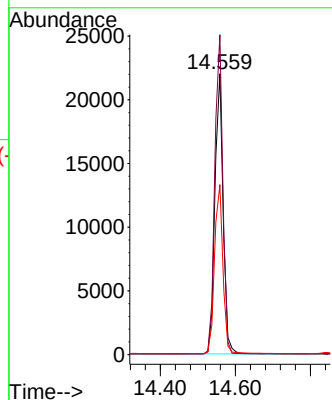
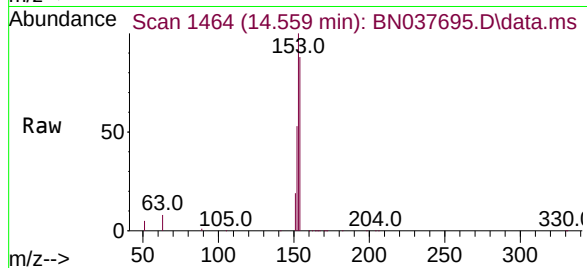
Tgt Ion:154 Resp: 33424

Ion Ratio Lower Upper

154 100

153 111.9 89.8 134.8

152 61.8 50.2 75.2



#18

Fluorene

Concen: 1.646 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

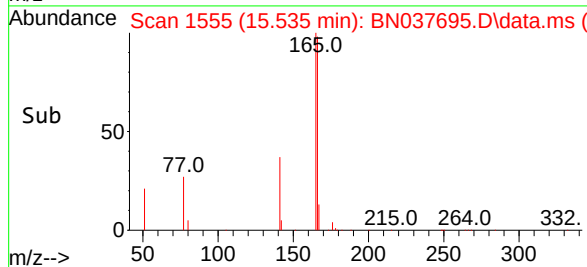
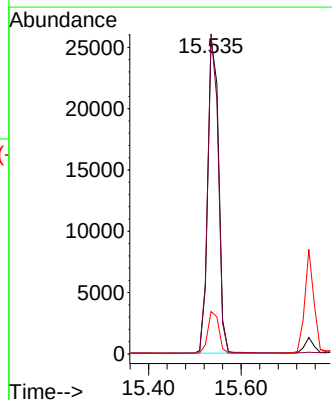
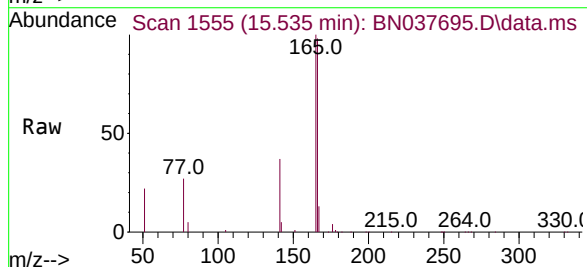
Tgt Ion:166 Resp: 40588

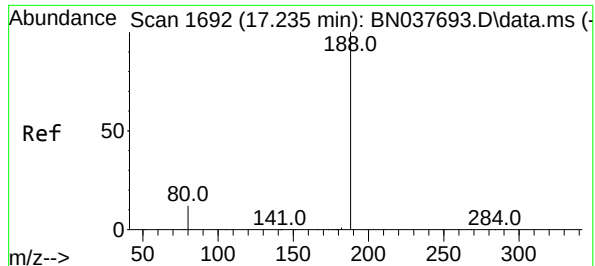
Ion Ratio Lower Upper

166 100

165 98.2 79.6 119.4

167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.236 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

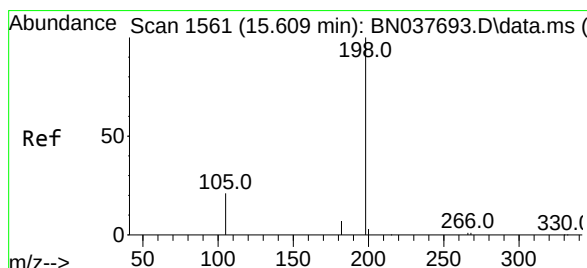
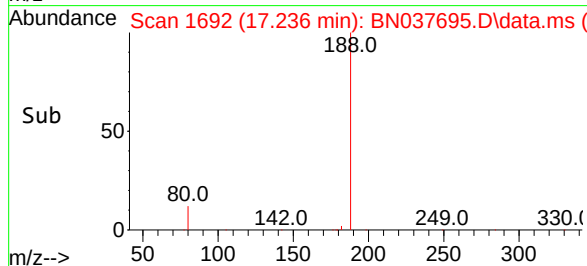
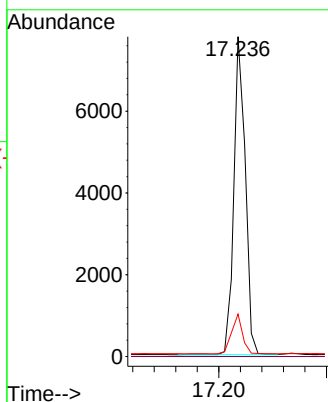
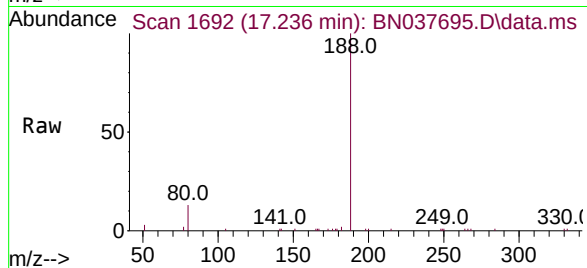
Tgt Ion:188 Resp: 11496

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 1.725 ng

RT: 15.610 min Scan# 1561

Delta R.T. 0.001 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

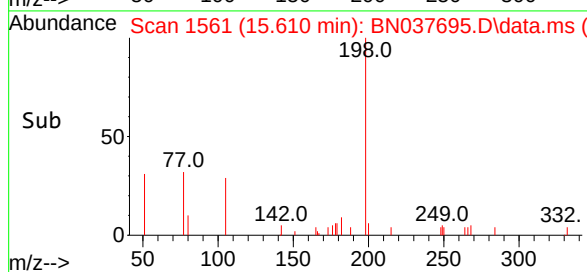
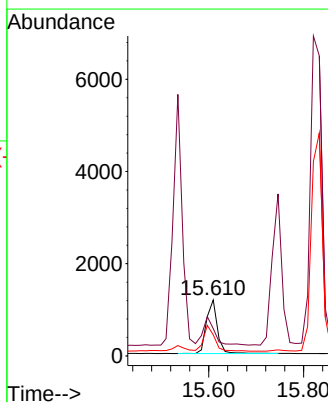
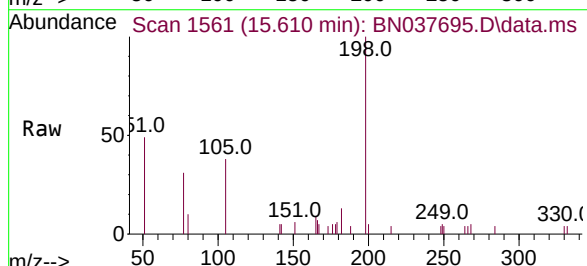
Tgt Ion:198 Resp: 1837

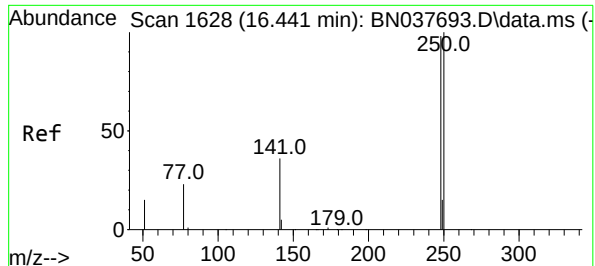
Ion Ratio Lower Upper

198 100

51 48.7 95.1 142.7#

105 37.6 53.8 80.6#

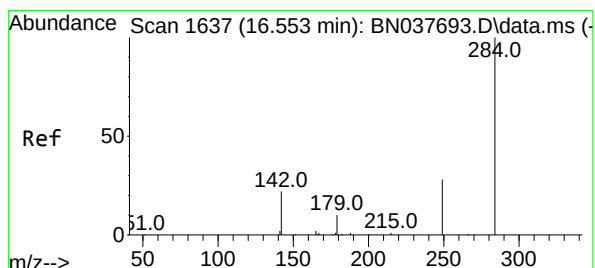
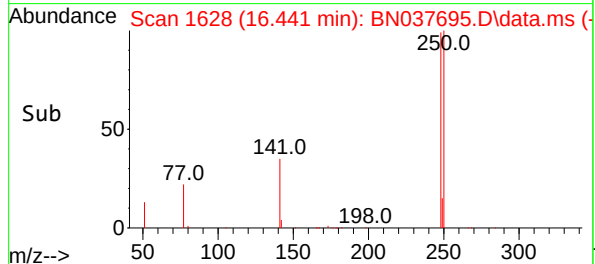
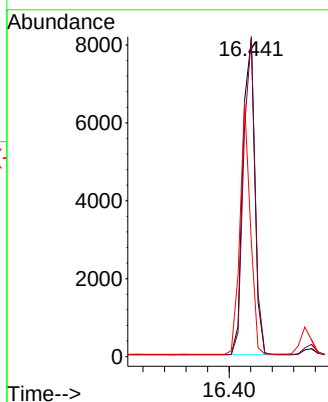
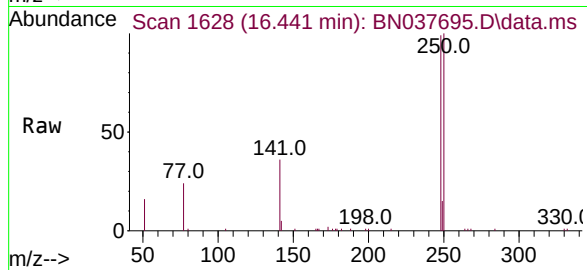




#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.441 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

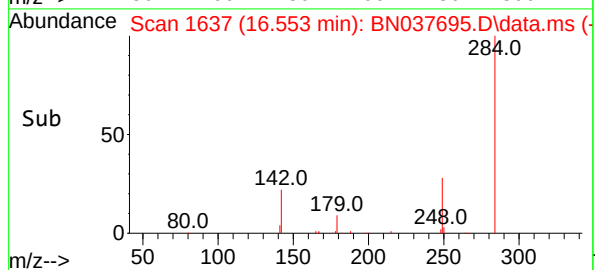
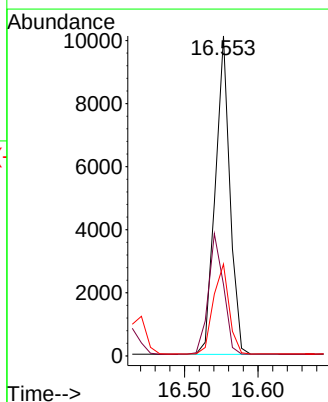
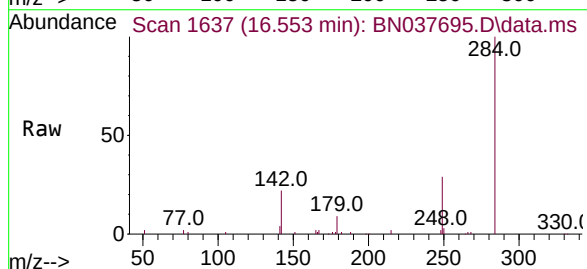
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

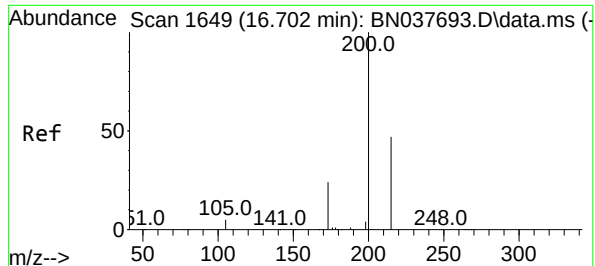
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	81.5	122.3
141	36.0	30.8	46.2



#22
Hexachlorobenzene
Concen: 1.628 ng
RT: 16.553 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BN037695.D
Acq: 11 Sep 2025 12:20

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.9	46.3
249	30.3	24.8	37.2





#23

Atrazine

Concen: 1.628 ng

RT: 16.702 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

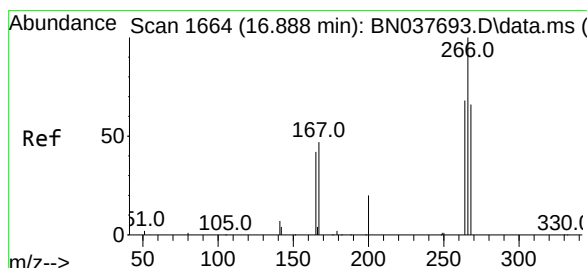
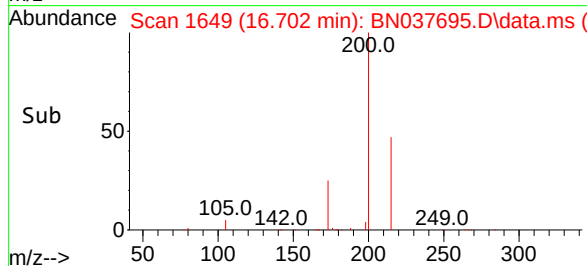
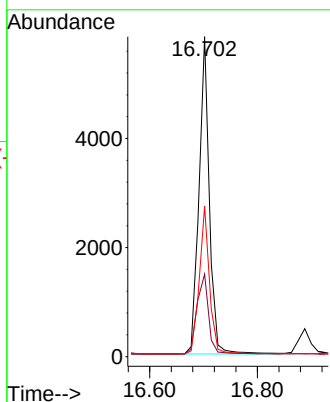
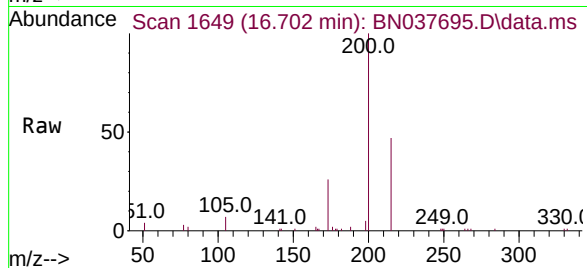
Tgt Ion:200 Resp: 7765

Ion Ratio Lower Upper

200 100

173 25.8 21.4 32.2

215 47.0 39.2 58.8



#24

Pentachlorophenol

Concen: 1.571 ng

RT: 16.888 min Scan# 1664

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

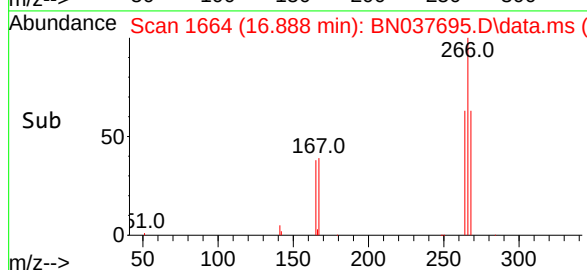
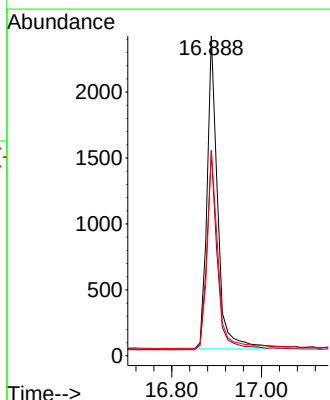
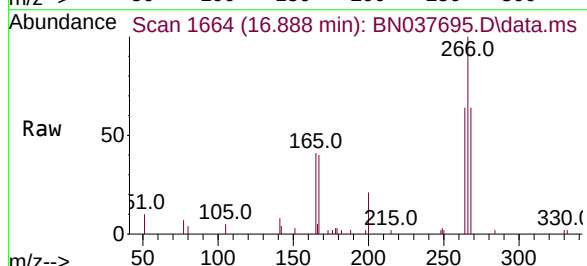
Tgt Ion:266 Resp: 3932

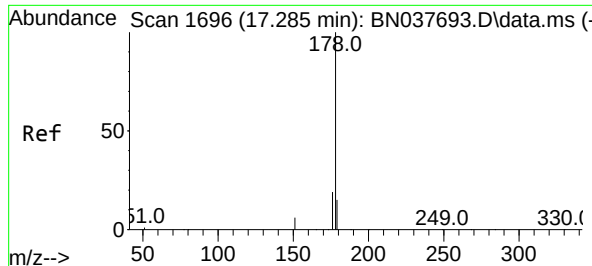
Ion Ratio Lower Upper

266 100

264 63.1 51.6 77.4

268 65.1 53.2 79.8





#25

Phenanthrene

Concen: 1.632 ng

RT: 17.285 min Scan# 1696

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

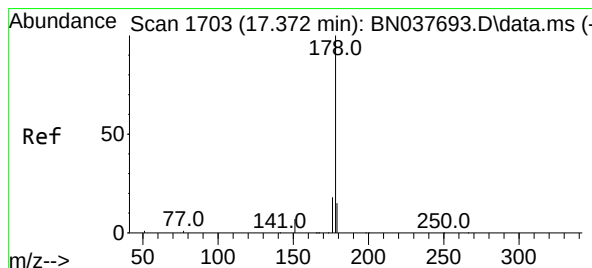
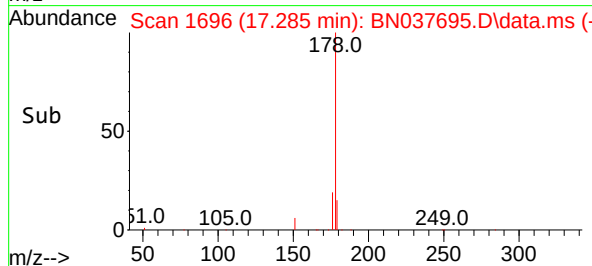
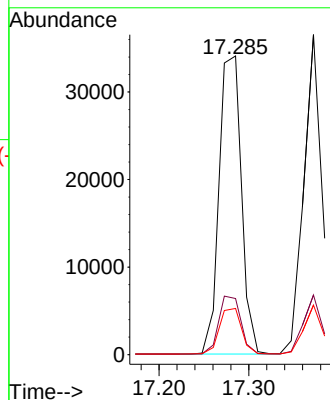
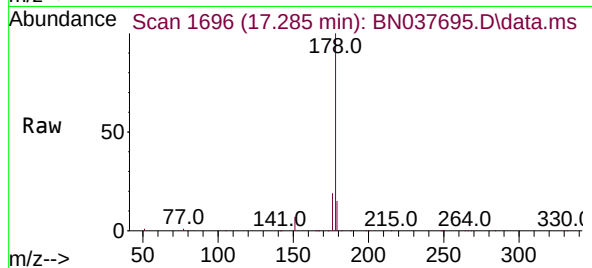
Tgt Ion:178 Resp: 59082

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.2 12.2 18.2



#26

Anthracene

Concen: 1.635 ng

RT: 17.372 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

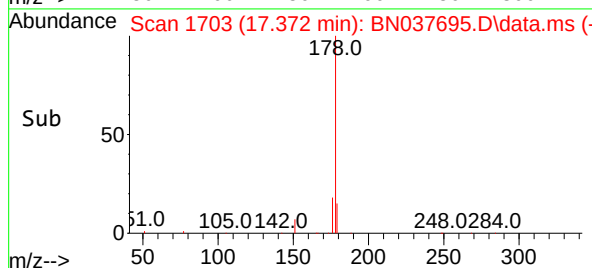
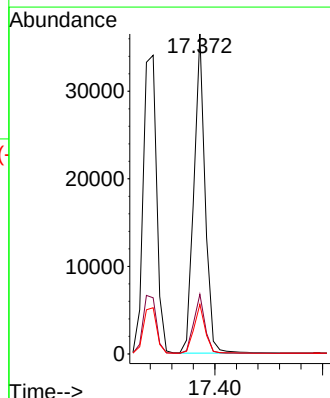
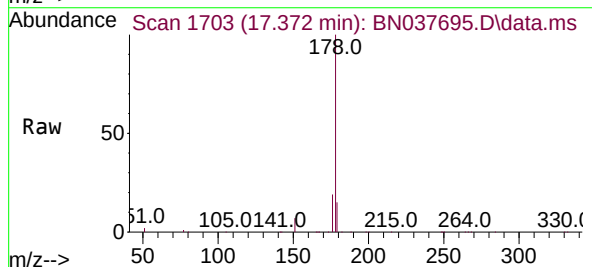
Tgt Ion:178 Resp: 52416

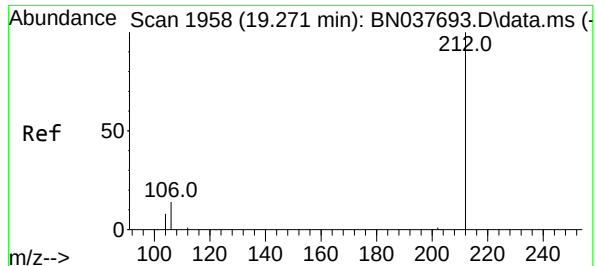
Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 1.520 ng

RT: 19.267 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

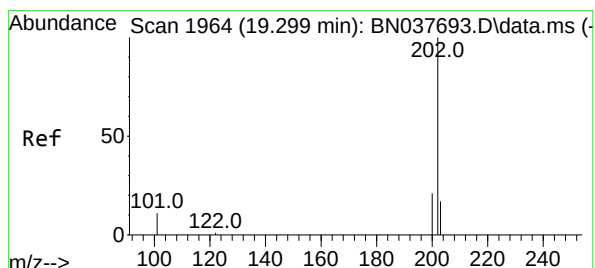
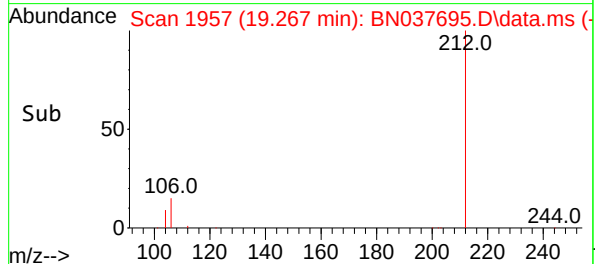
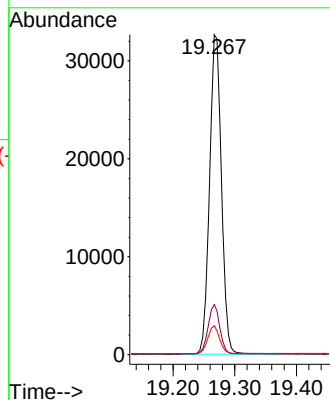
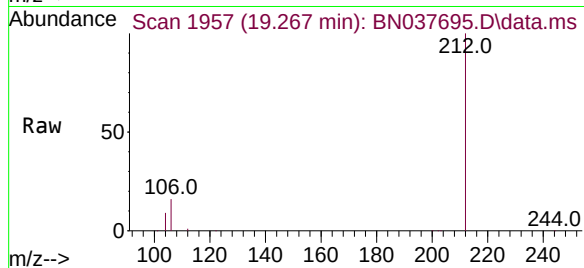
Tgt Ion:212 Resp: 43876

Ion Ratio Lower Upper

212 100

106 15.2 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 1.614 ng

RT: 19.299 min Scan# 1964

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

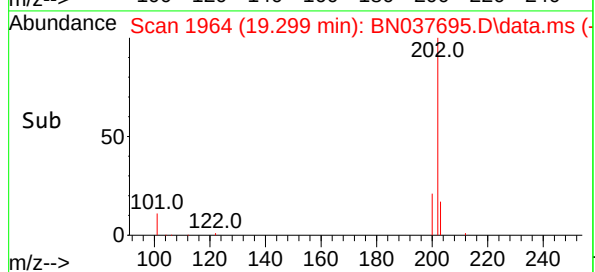
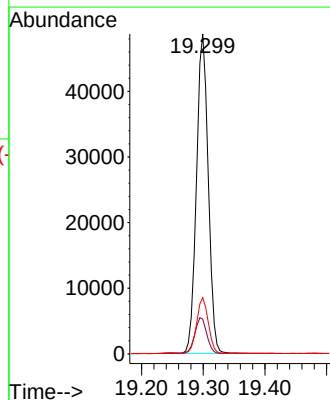
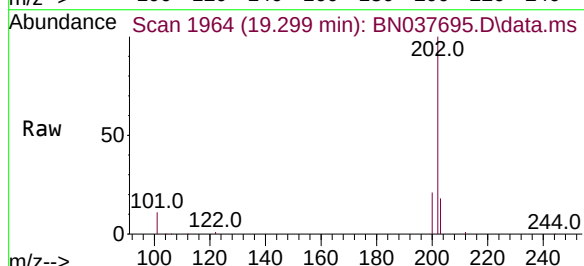
Tgt Ion:202 Resp: 64074

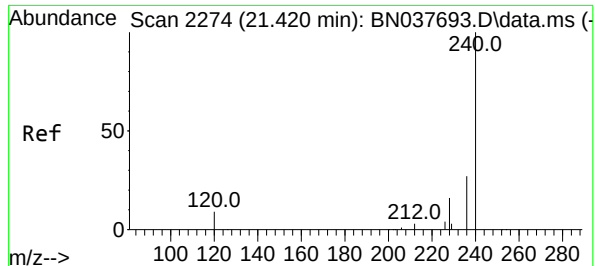
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

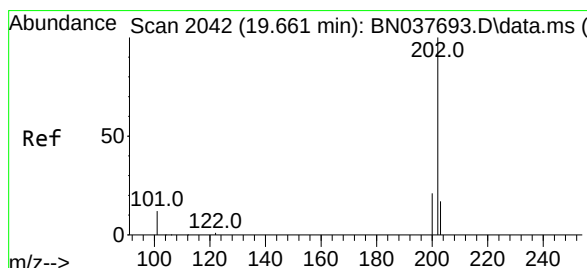
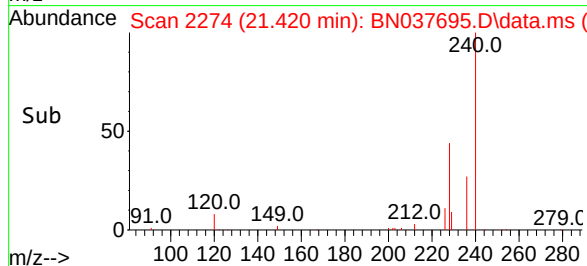
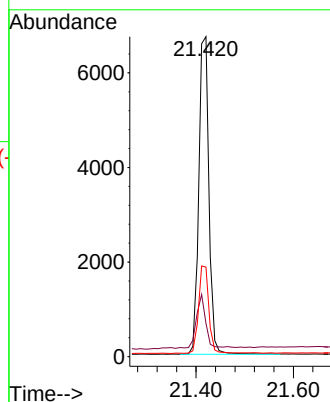
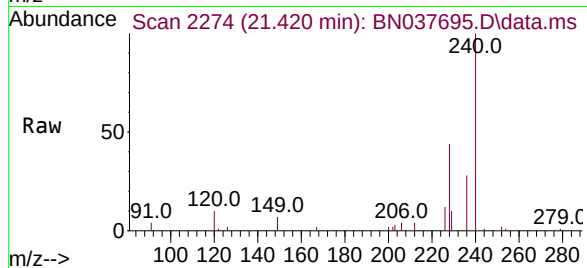
Tgt Ion:240 Resp: 9743

Ion Ratio Lower Upper

240 100

120 10.4 9.2 13.8

236 28.0 22.6 33.8



#30

Pyrene

Concen: 1.638 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

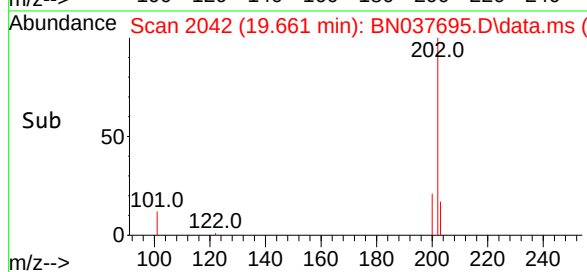
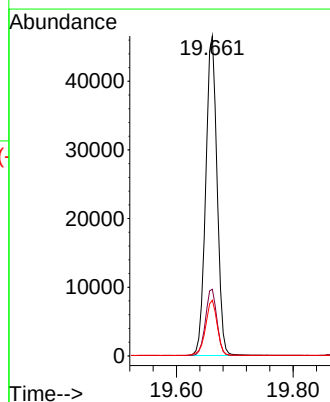
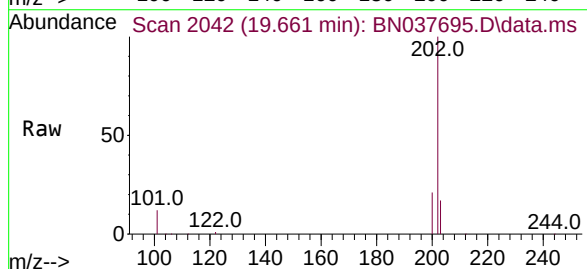
Tgt Ion:202 Resp: 62457

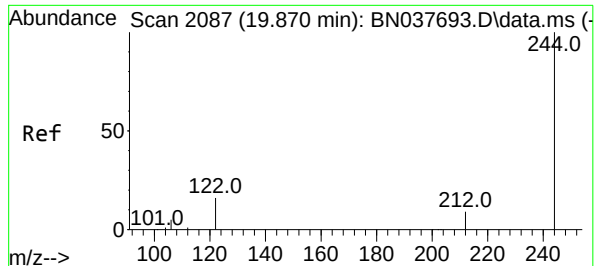
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 1.601 ng

RT: 19.871 min Scan# 2087

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

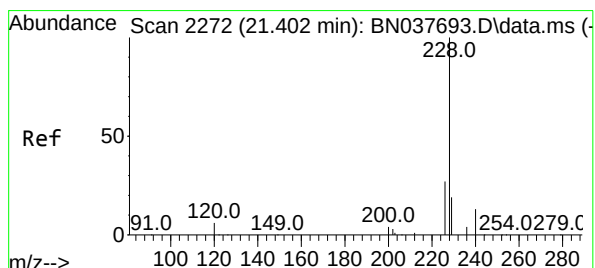
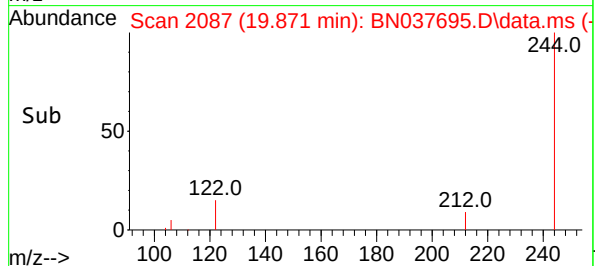
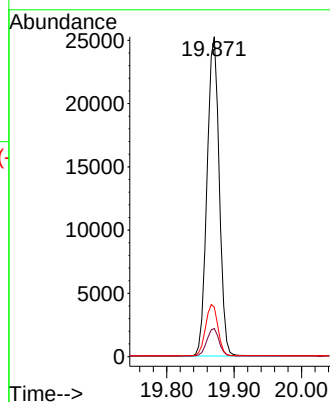
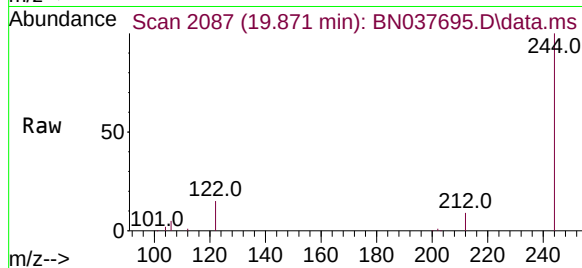
Tgt Ion:244 Resp: 31656

Ion Ratio Lower Upper

244 100

212 8.8 7.5 11.3

122 15.5 13.2 19.8



#32

Benzo(a)anthracene

Concen: 1.616 ng

RT: 21.402 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

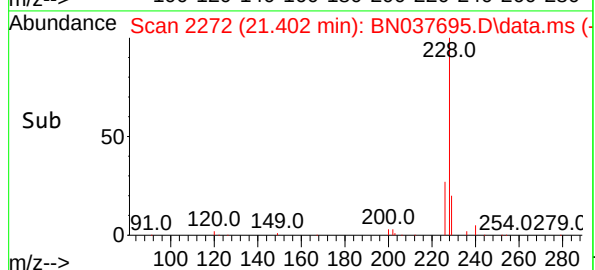
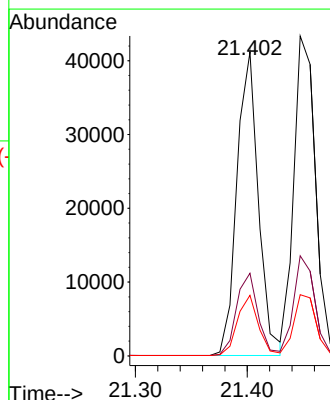
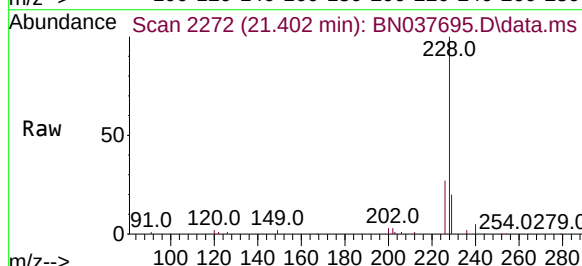
Tgt Ion:228 Resp: 54932

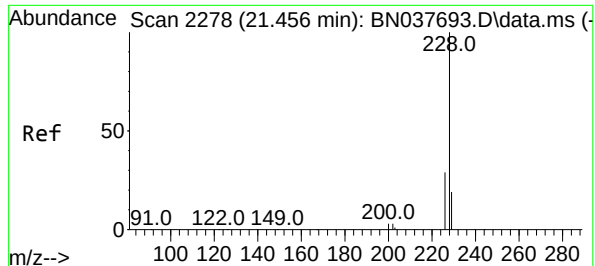
Ion Ratio Lower Upper

228 100

226 27.2 22.2 33.2

229 19.9 15.8 23.6





#33

Chrysene

Concen: 1.615 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

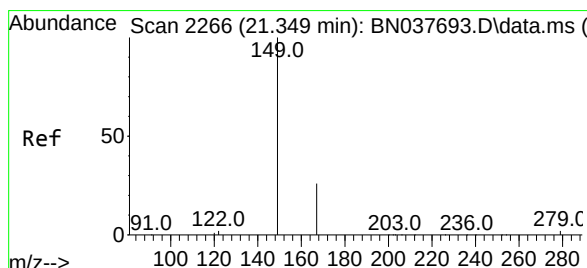
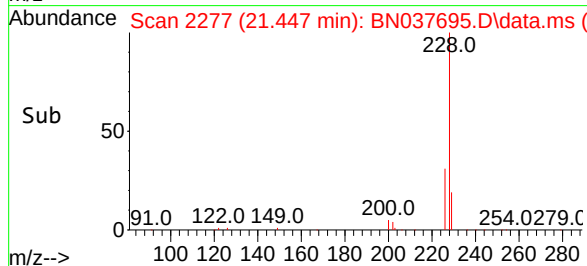
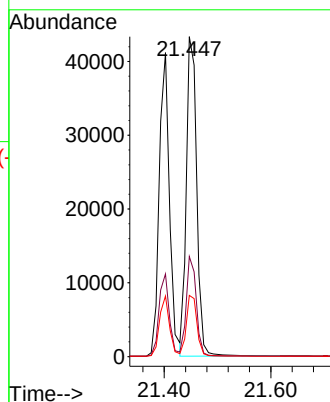
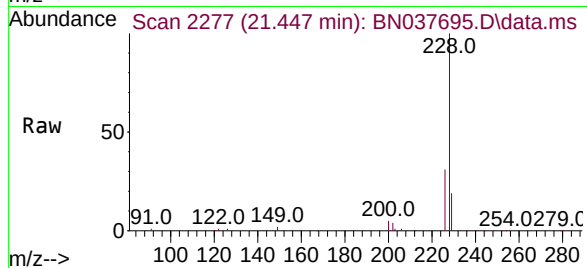
Tgt Ion:228 Resp: 58866

Ion Ratio Lower Upper

228 100

226 31.3 23.5 35.3

229 19.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.470 ng

RT: 21.349 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

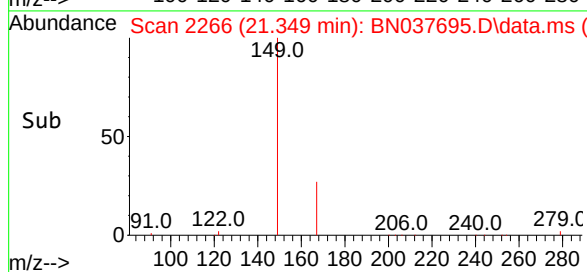
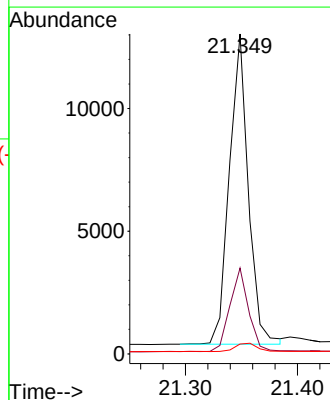
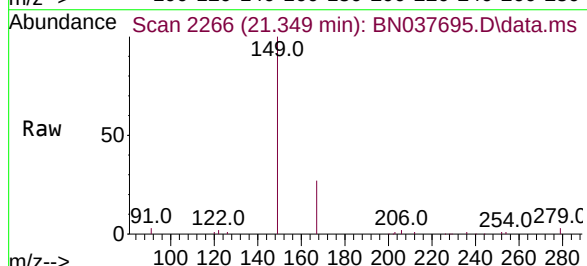
Tgt Ion:149 Resp: 14814

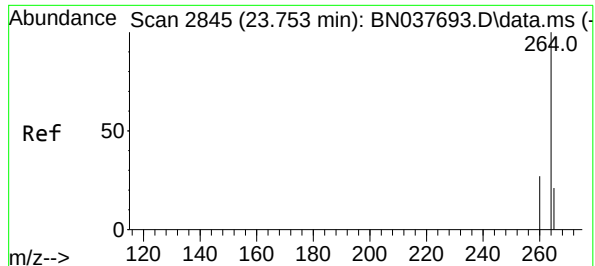
Ion Ratio Lower Upper

149 100

167 26.6 20.8 31.2

279 3.2 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2844

Delta R.T. -0.003 min

Lab File: BN037695.D

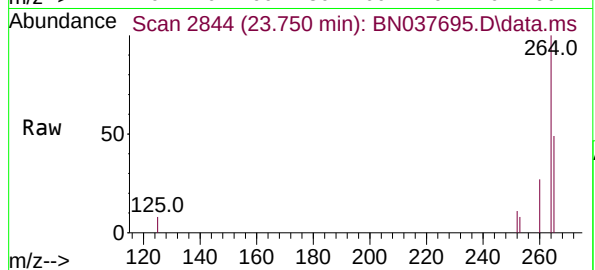
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



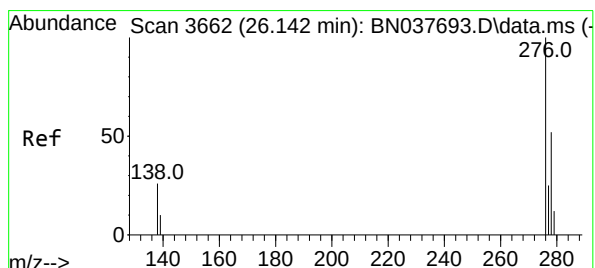
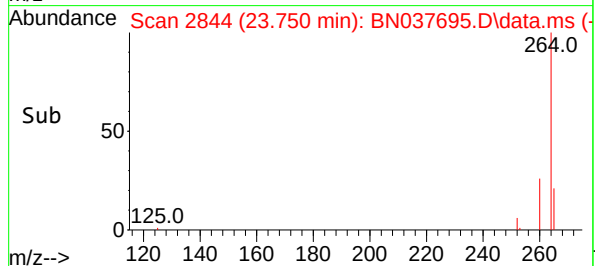
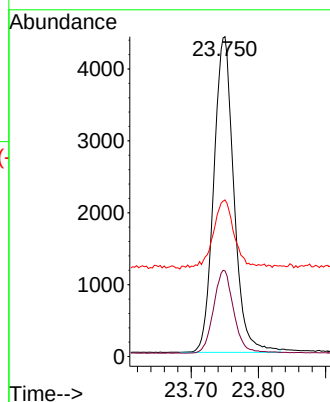
Tgt Ion:264 Resp: 9111

Ion Ratio Lower Upper

264 100

260 26.8 21.8 32.8

265 49.0 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.705 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

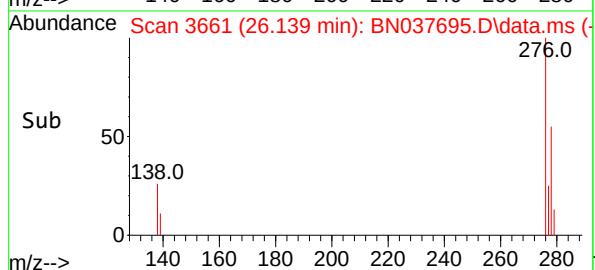
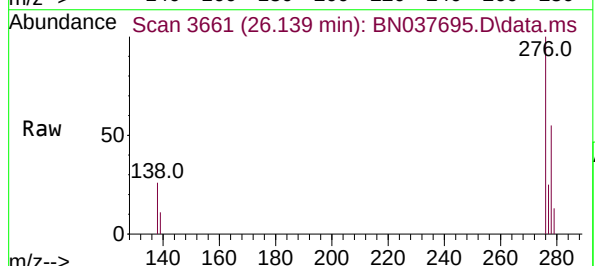
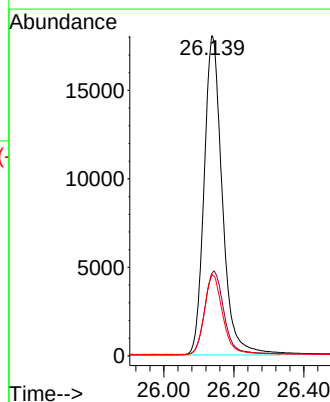
Tgt Ion:276 Resp: 65254

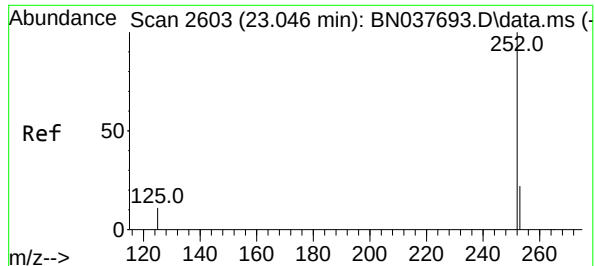
Ion Ratio Lower Upper

276 100

138 27.5 21.9 32.9

277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 1.662 ng

RT: 23.043 min Scan# 2602

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

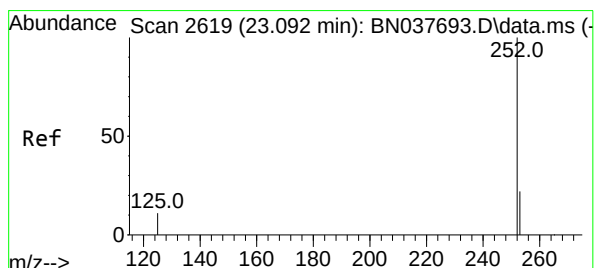
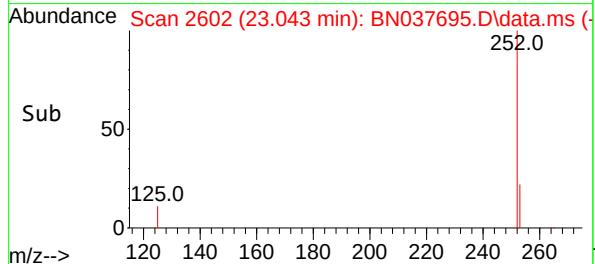
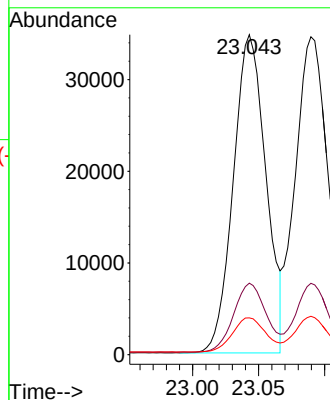
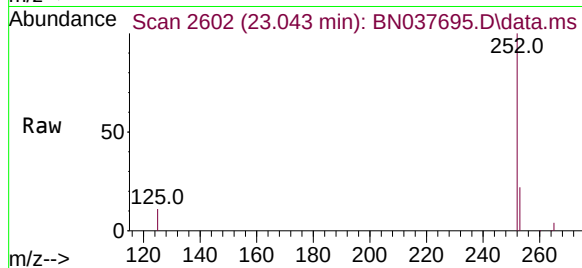
Tgt Ion:252 Resp: 59639

Ion Ratio Lower Upper

252 100

253 22.3 19.4 29.2

125 11.5 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 1.698 ng

RT: 23.090 min Scan# 2618

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

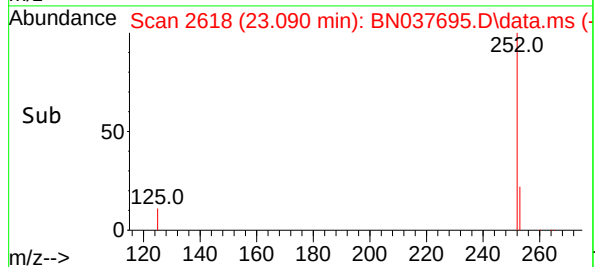
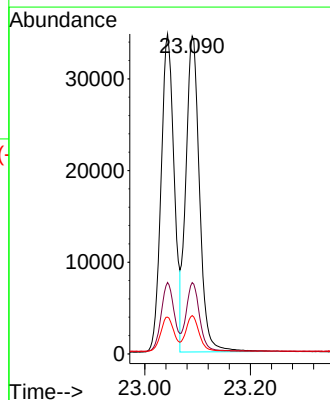
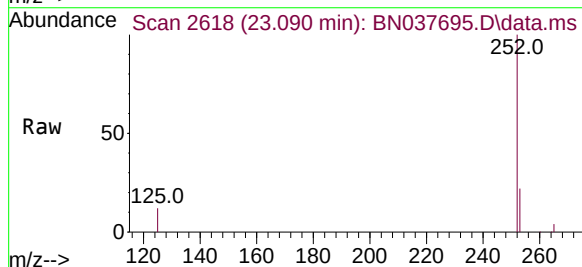
Tgt Ion:252 Resp: 62123

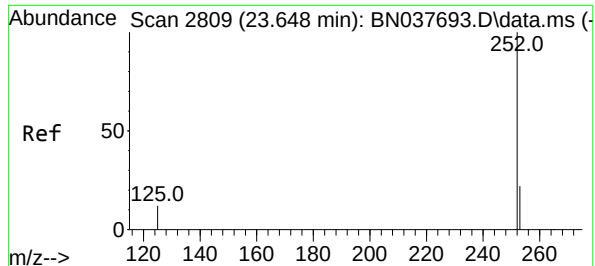
Ion Ratio Lower Upper

252 100

253 22.4 19.4 29.0

125 12.1 11.6 17.4





#39

Benzo(a)pyrene

Concen: 1.667 ng

RT: 23.645 min Scan# 2808

Delta R.T. -0.003 min

Lab File: BN037695.D

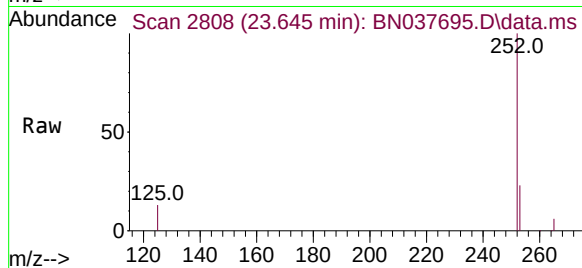
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



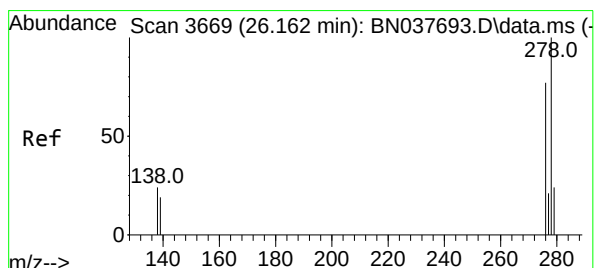
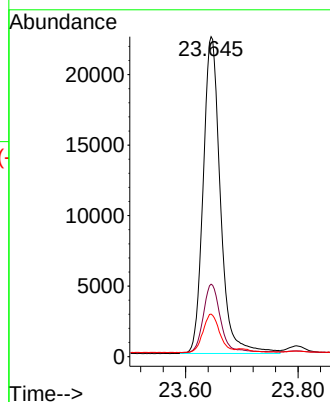
Tgt Ion:252 Resp: 47897

Ion Ratio Lower Upper

252 100

253 22.6 20.8 31.2

125 13.3 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 1.744 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037695.D

Acq: 11 Sep 2025 12:20

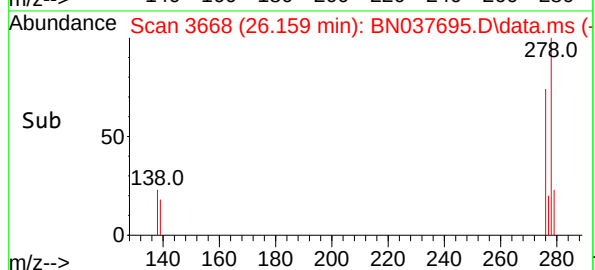
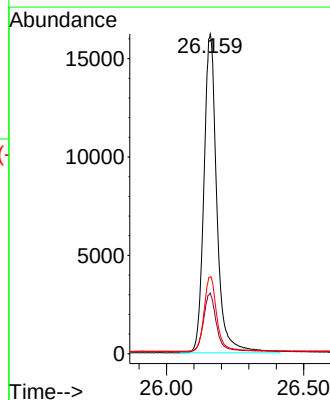
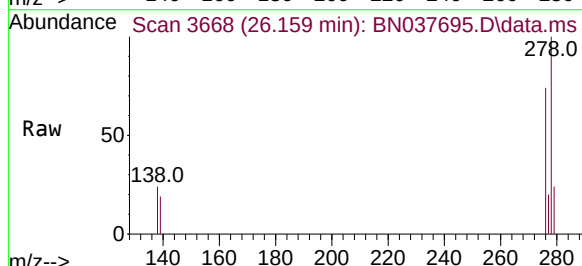
Tgt Ion:278 Resp: 53306

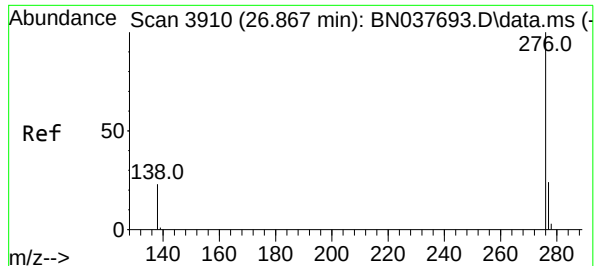
Ion Ratio Lower Upper

278 100

139 19.0 17.8 26.6

279 24.1 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 1.666 ng

RT: 26.858 min Scan# 39

Delta R.T. -0.009 min

Lab File: BN037695.D

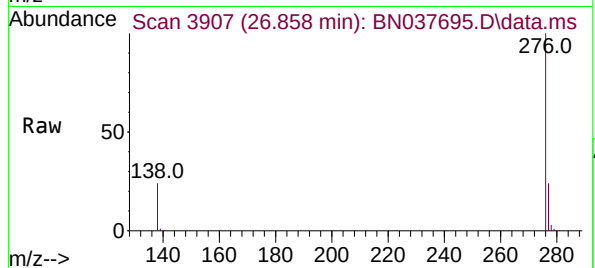
Acq: 11 Sep 2025 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



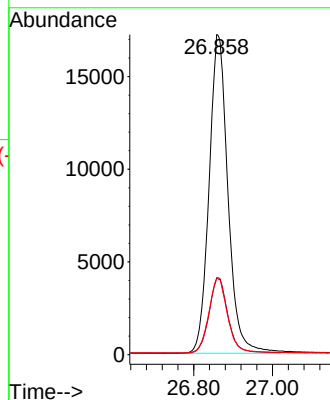
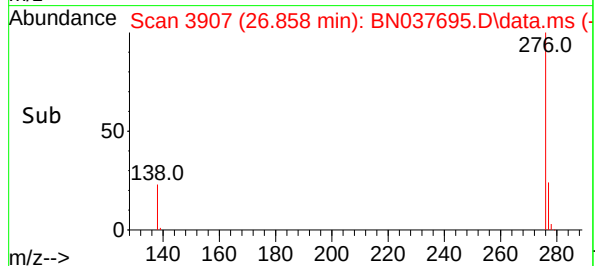
Tgt Ion:276 Resp: 57151

Ion Ratio Lower Upper

276 100

277 24.0 20.6 31.0

138 23.7 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037696.D
 Acq On : 11 Sep 2025 12:56
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

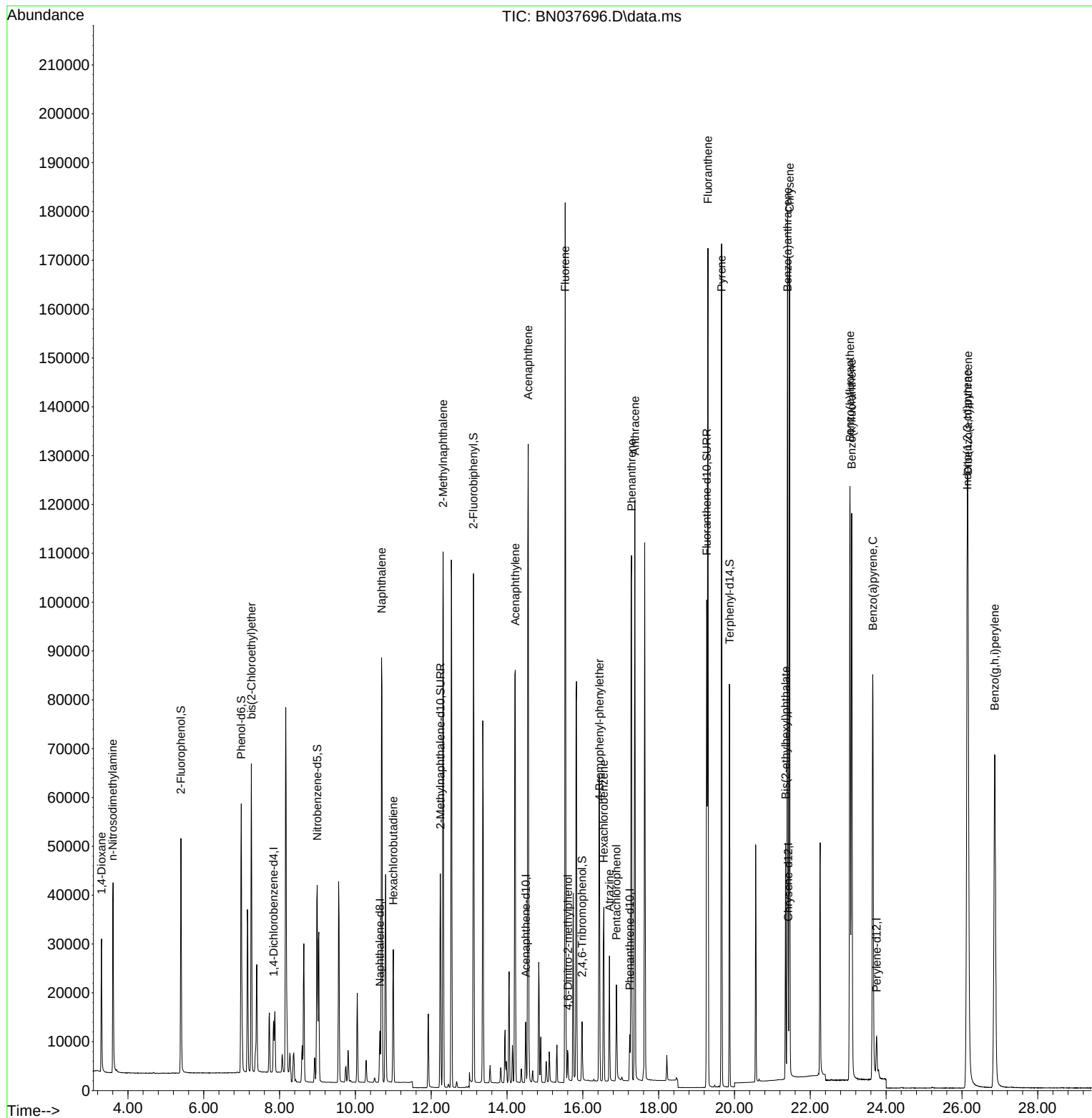
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5084	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	13375	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	6550	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11925	0.400	ng	0.00
29) Chrysene-d12	21.420	240	12141	0.400	ng	0.00
35) Perylene-d12	23.750	264	11403	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	38119	3.266	ng	0.00
5) Phenol-d6	6.988	99	49810	3.291	ng	0.00
8) Nitrobenzene-d5	8.993	82	32423	3.314	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	58810	3.319	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	6865	4.018	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	87709	3.202	ng	0.00
27) Fluoranthene-d10	19.267	212	105719	3.531	ng	0.00
31) Terphenyl-d14	19.870	244	76156	3.090	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	16994	3.209	ng	98
3) n-Nitrosodimethylamine	3.601	42	22382	3.235	ng	# 95
6) bis(2-Chloroethyl)ether	7.255	93	43338	3.205	ng	100
9) Naphthalene	10.690	128	119338	3.264	ng	99
10) Hexachlorobutadiene	11.000	225	21272	3.216	ng	# 100
12) 2-Methylnaphthalene	12.314	142	76164	3.368	ng	99
16) Acenaphthylene	14.217	152	100382	3.342	ng	100
17) Acenaphthene	14.559	154	67901	3.343	ng	98
18) Fluorene	15.535	166	85576	3.479	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	4427	4.008	ng	# 37
21) 4-Bromophenyl-phenylether	16.441	248	25659	3.300	ng	97
22) Hexachlorobenzene	16.553	284	28853	3.226	ng	99
23) Atrazine	16.702	200	18156	3.670	ng	96
24) Pentachlorophenol	16.888	266	9551	3.678	ng	97
25) Phenanthrene	17.285	178	125980	3.355	ng	100
26) Anthracene	17.372	178	116443	3.501	ng	100
28) Fluoranthene	19.299	202	150569	3.657	ng	100
30) Pyrene	19.661	202	149814	3.152	ng	100
32) Benzo(a)anthracene	21.402	228	141736	3.347	ng	99
33) Chrysene	21.456	228	146238	3.221	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	42504	3.385	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.139	276	170120	3.551	ng	100
37) Benzo(b)fluoranthene	23.046	252	152726	3.401	ng	94
38) Benzo(k)fluoranthene	23.092	252	154690	3.378	ng	# 94
39) Benzo(a)pyrene	23.648	252	124741	3.469	ng	# 90
40) Dibenzo(a,h)anthracene	26.159	278	138597	3.623	ng	92
41) Benzo(g,h,i)perylene	26.864	276	146601	3.415	ng	96

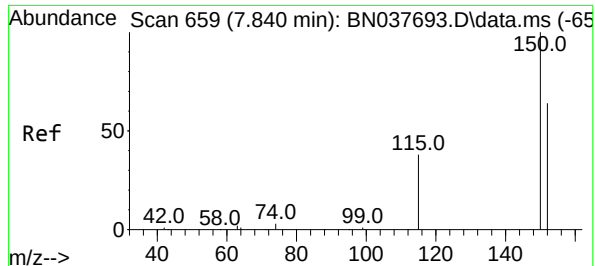
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037696.D
Acq On : 11 Sep 2025 12:56
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 11 14:07:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

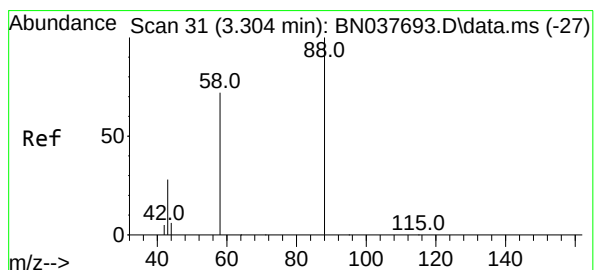
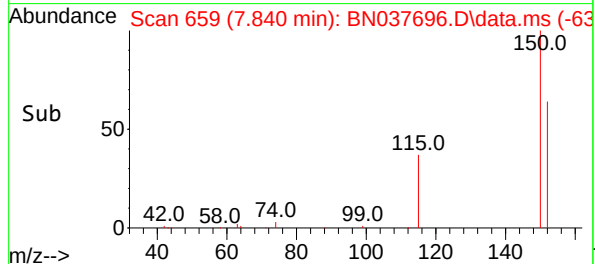
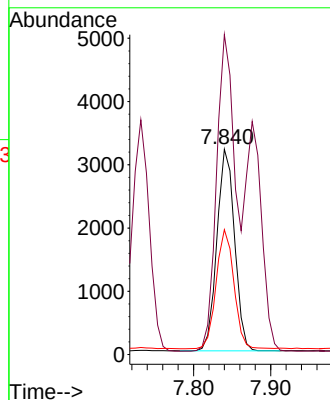
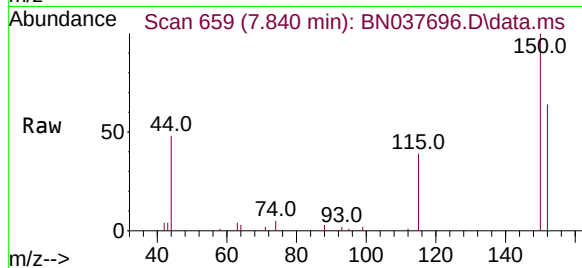




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

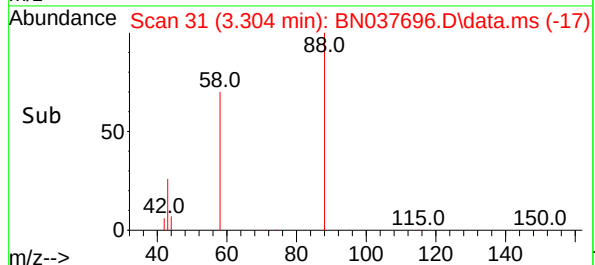
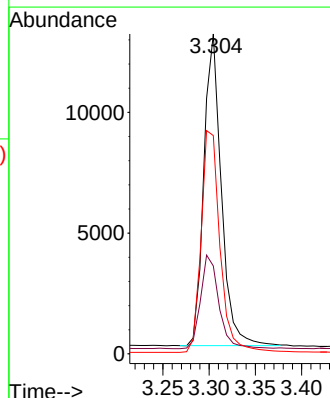
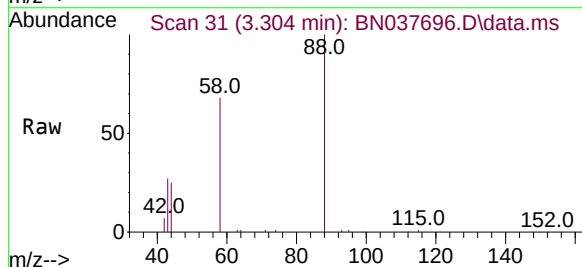
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

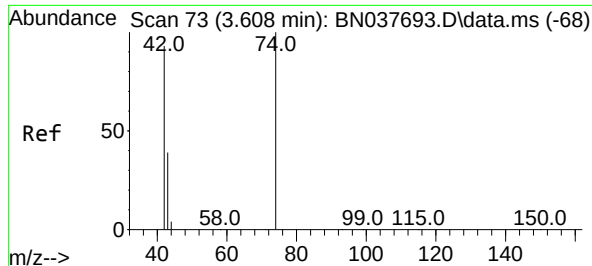
Tgt Ion:152 Resp: 5084
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 60.8 49.2 73.8



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 88 Resp: 16994
Ion Ratio Lower Upper
88 100
43 31.3 26.8 40.2
58 76.5 61.9 92.9

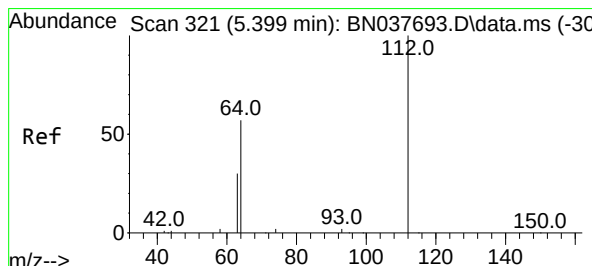
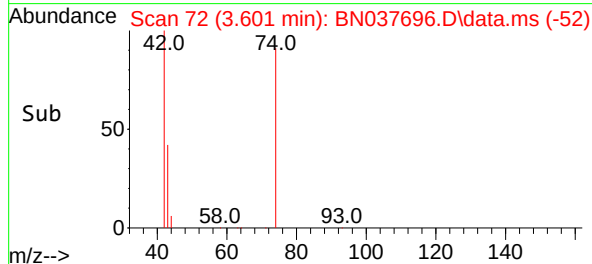
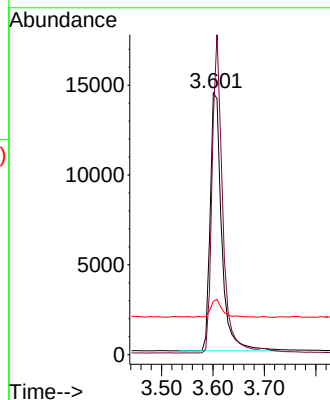
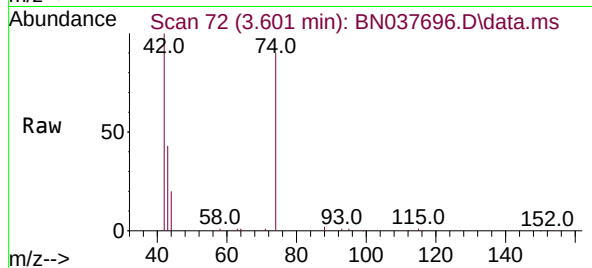




#3
n-Nitrosodimethylamine
Concen: 3.235 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

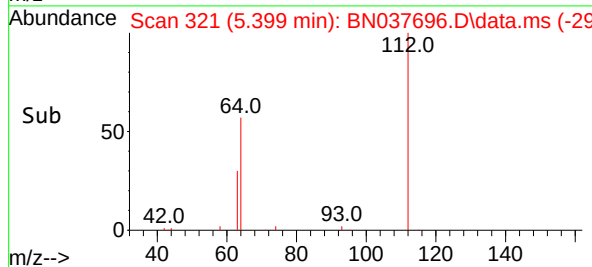
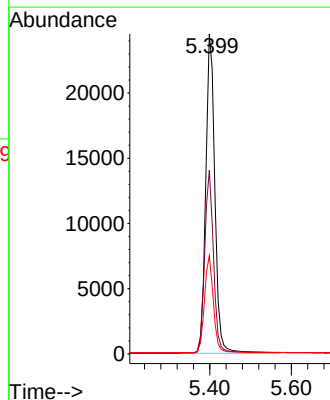
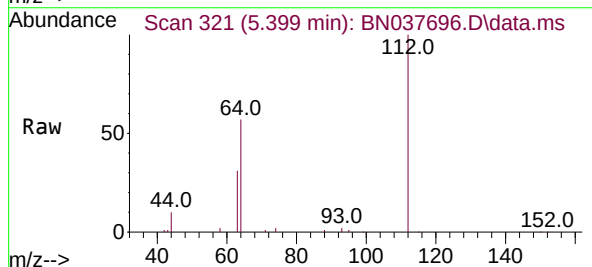
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

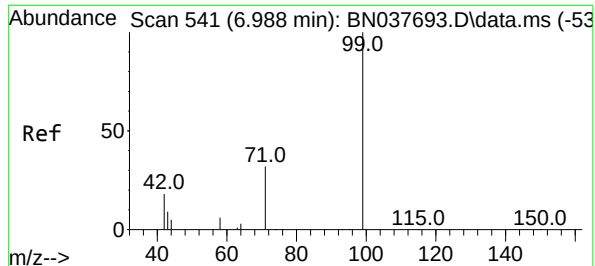
Tgt Ion: 42 Resp: 22382
Ion Ratio Lower Upper
42 100
74 112.2 86.0 129.0
44 6.7 8.4 12.6#



#4
2-Fluorophenol
Concen: 3.266 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 112 Resp: 38119
Ion Ratio Lower Upper
112 100
64 56.4 44.9 67.3
63 29.6 24.7 37.1

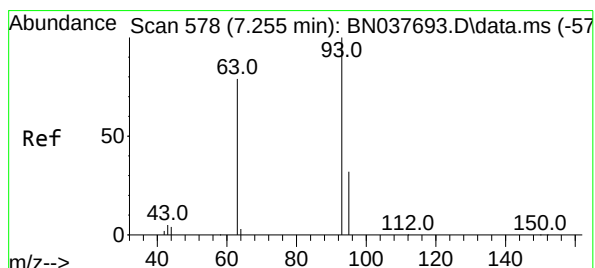
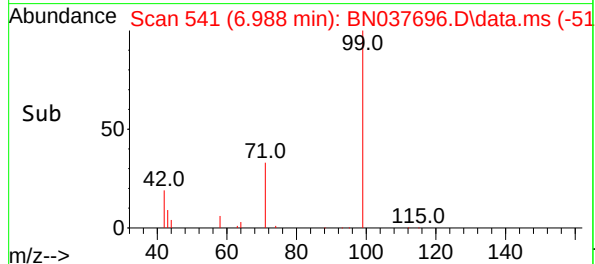
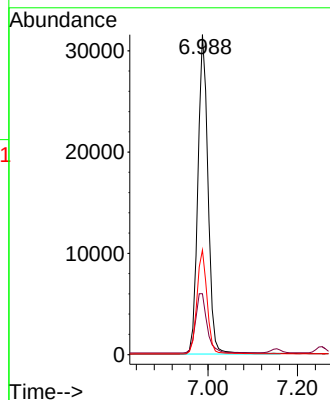
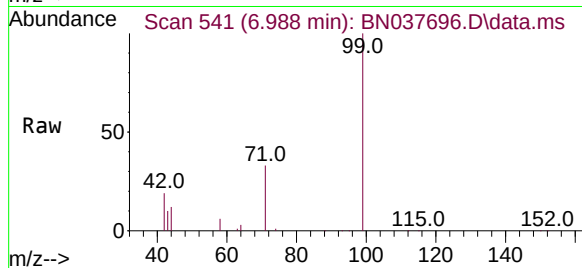




#5
Phenol-d6
Concen: 3.291 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

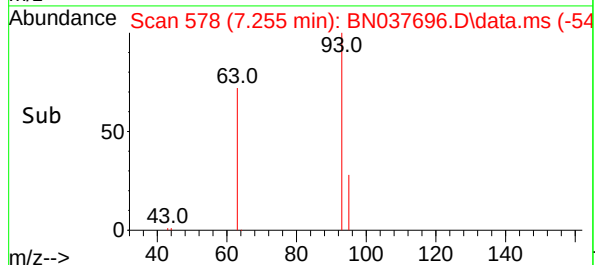
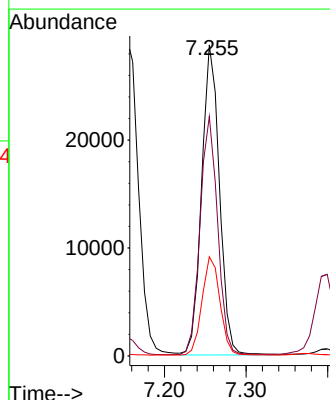
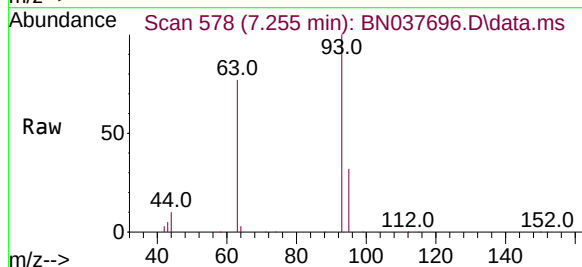
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

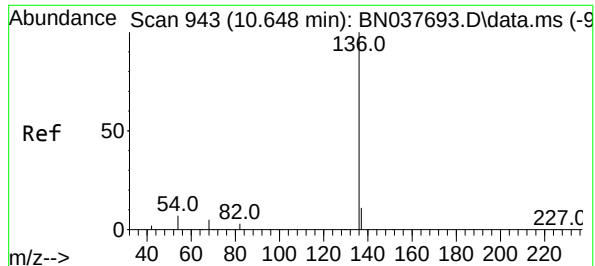
Tgt Ion: 99 Resp: 49810
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 32.5 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 3.205 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion: 93 Resp: 43338
Ion Ratio Lower Upper
93 100
63 75.9 60.6 90.8
95 31.9 26.0 39.0

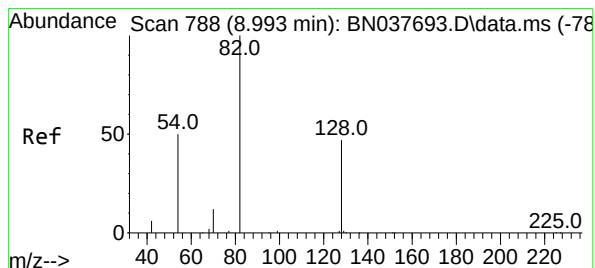
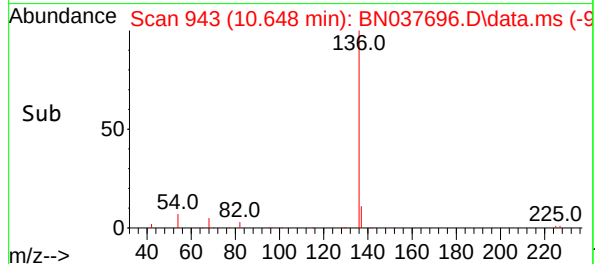
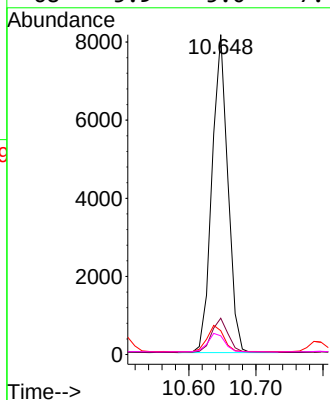
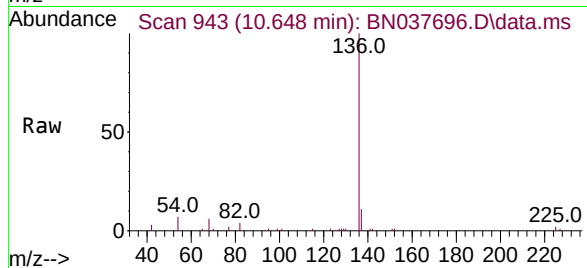




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

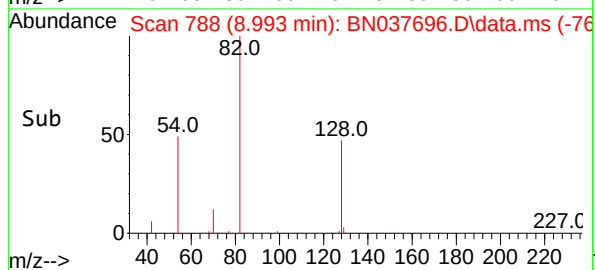
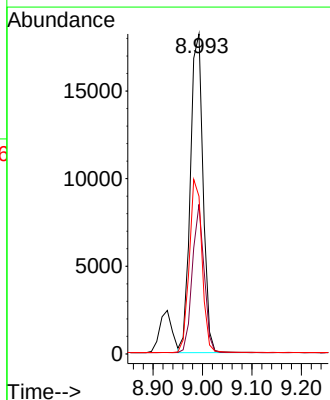
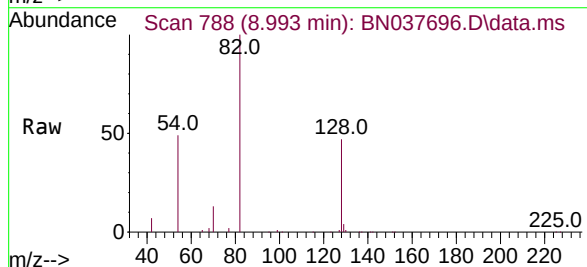
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

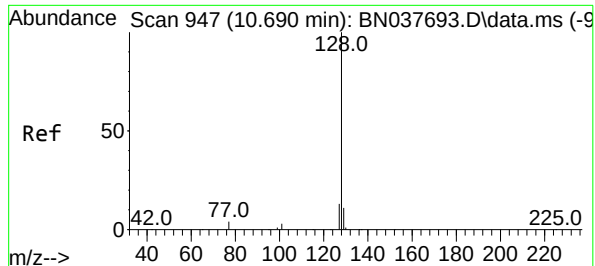
Tgt Ion:	136	Resp:	13375
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.5	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 3.314 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:	82	Resp:	32423
Ion	Ratio	Lower	Upper
82	100		
128	46.7	38.3	57.5
54	49.2	41.4	62.2

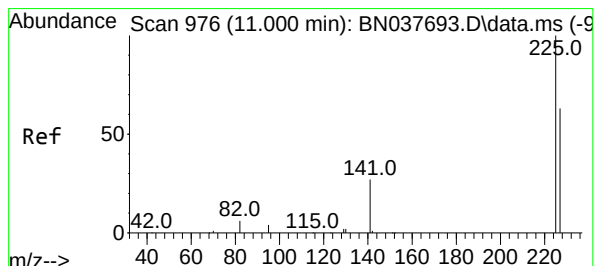
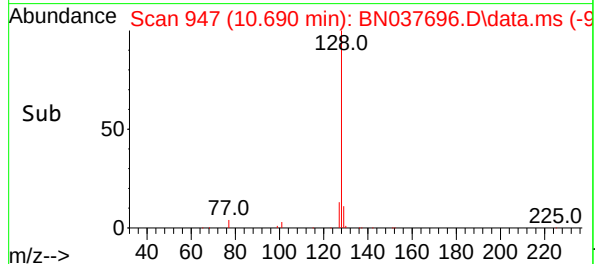
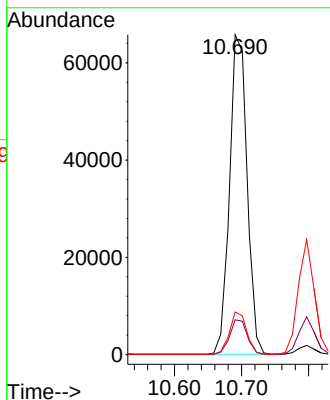
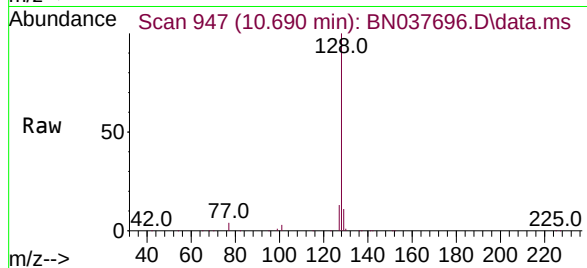




#9
Naphthalene
Concen: 3.264 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

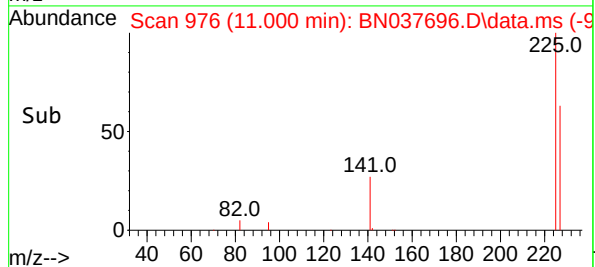
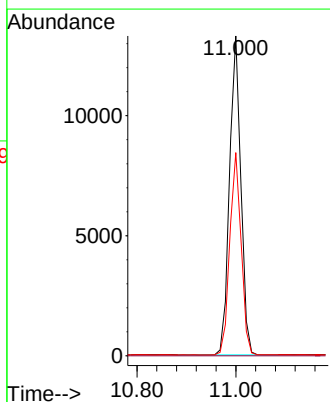
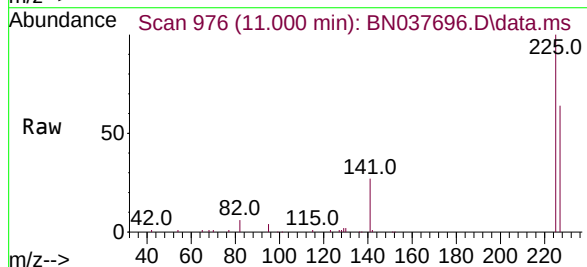
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

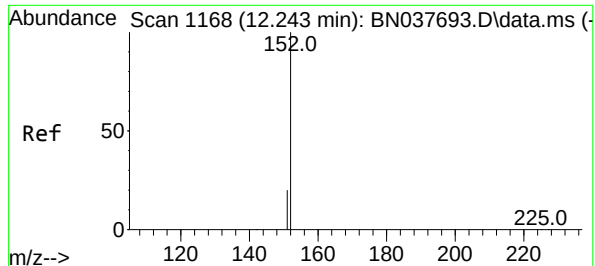
Tgt Ion:128 Resp: 119338
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 3.216 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:225 Resp: 21272
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3

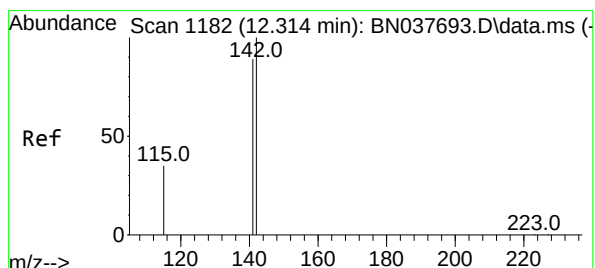
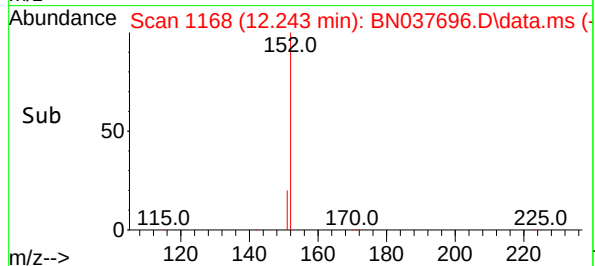
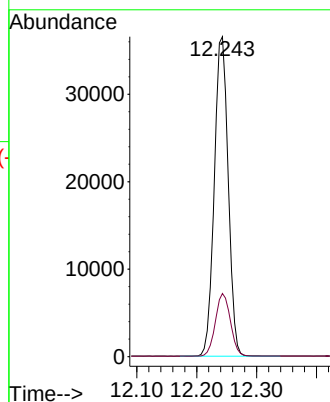
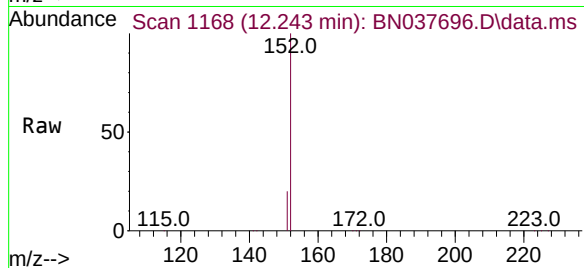




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

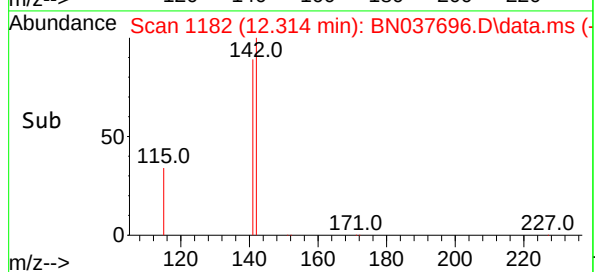
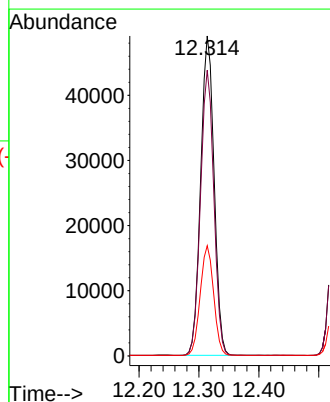
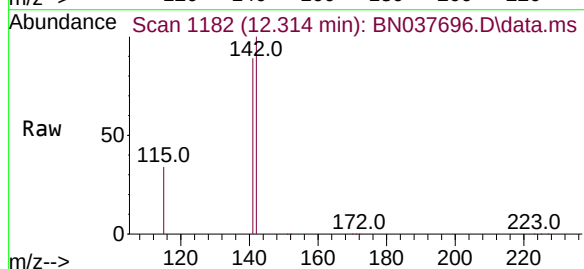
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

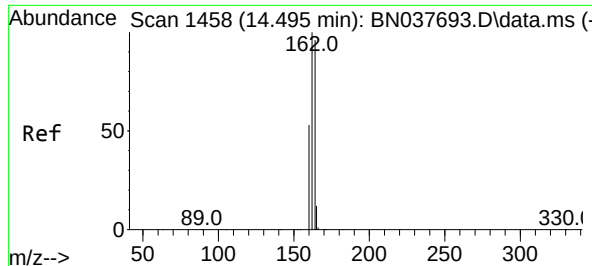
Tgt Ion:152 Resp: 58810
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.368 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:142 Resp: 76164
Ion Ratio Lower Upper
142 100
141 89.3 71.6 107.4
115 34.4 28.6 43.0

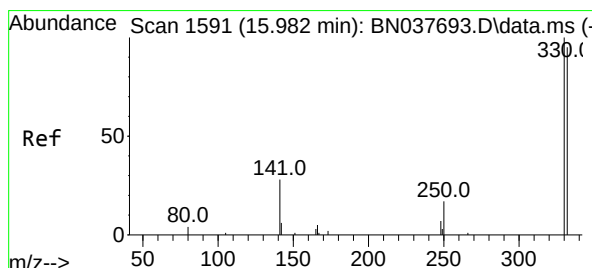
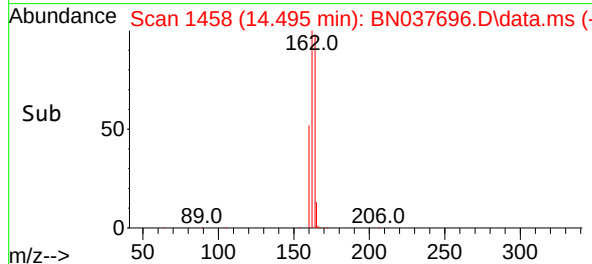
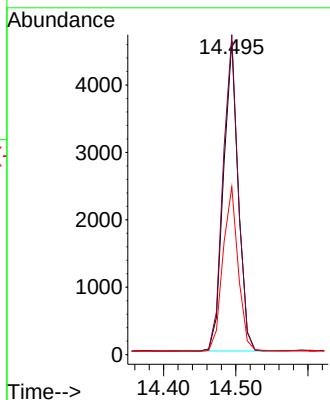
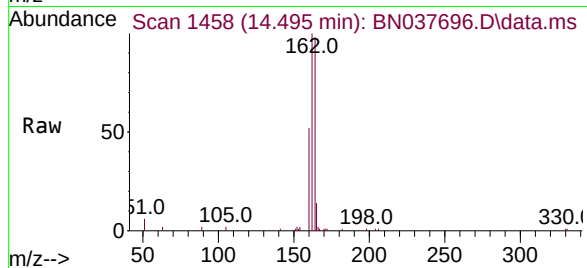




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

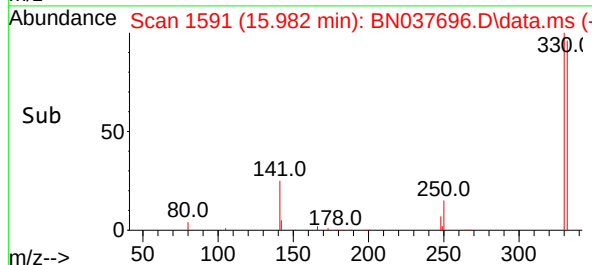
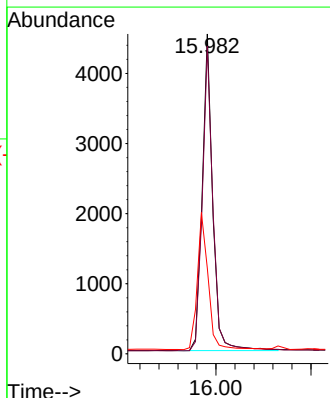
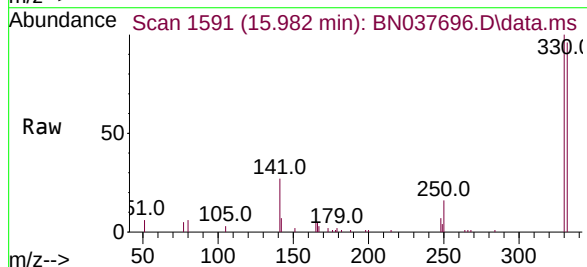
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

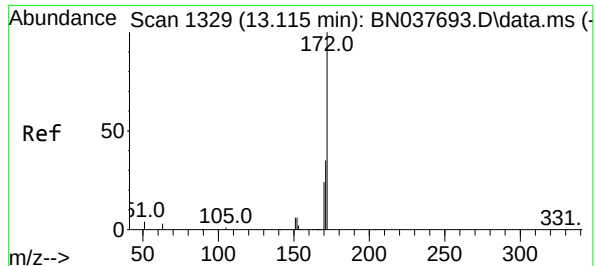
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	83.1	124.7
160	53.5	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 4.018 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	75.3	112.9
141	44.8	35.0	52.4





#15

2-Fluorobiphenyl

Concen: 3.202 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

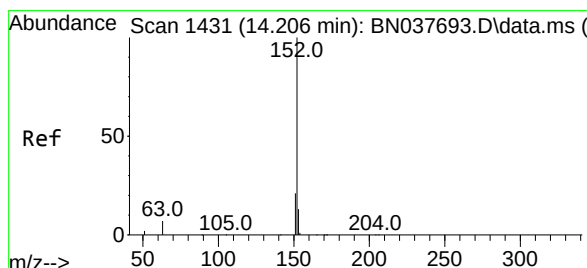
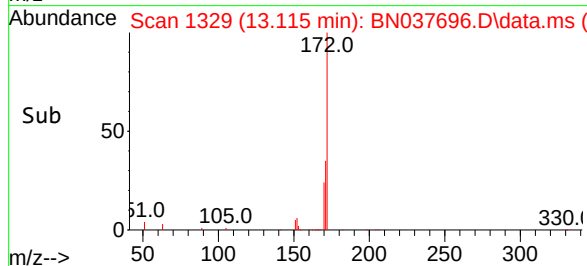
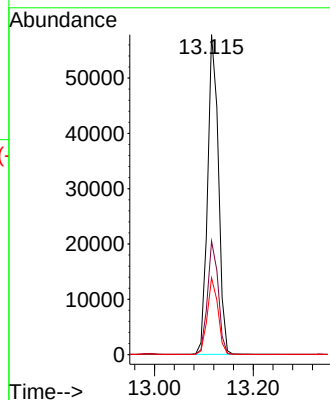
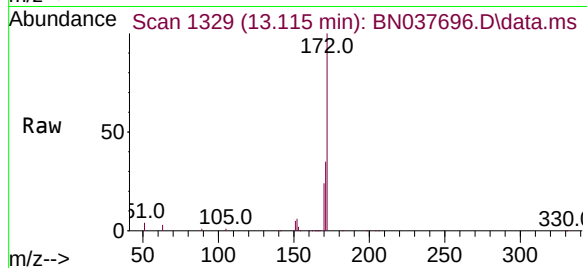
Tgt Ion:172 Resp: 87709

Ion Ratio Lower Upper

172 100

171 35.5 28.6 43.0

170 24.0 19.8 29.8



#16

Acenaphthylene

Concen: 3.342 ng

RT: 14.217 min Scan# 1432

Delta R.T. 0.011 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

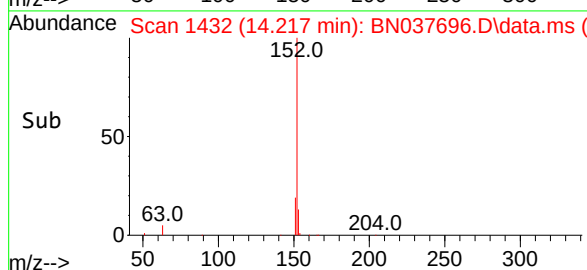
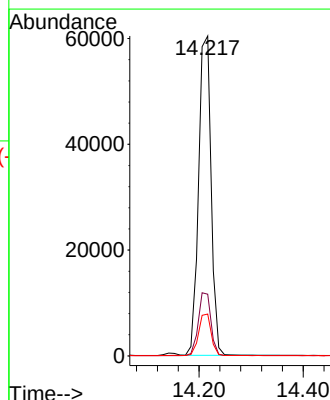
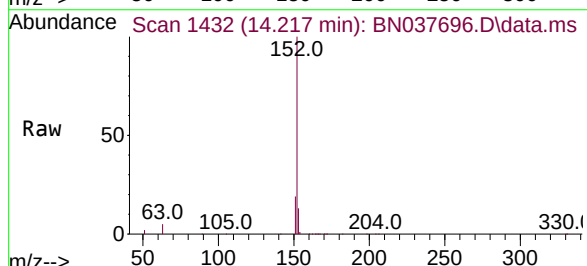
Tgt Ion:152 Resp: 100382

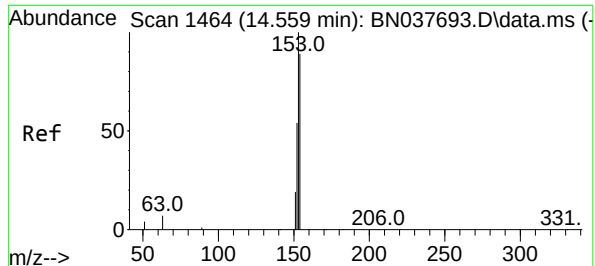
Ion Ratio Lower Upper

152 100

151 19.9 16.2 24.2

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 3.343 ng

RT: 14.559 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

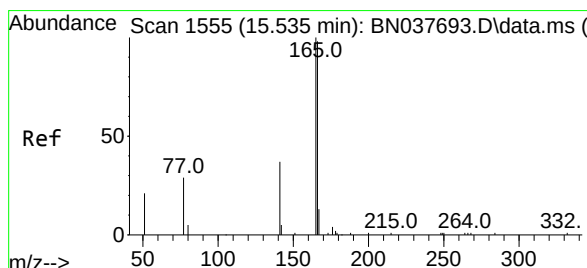
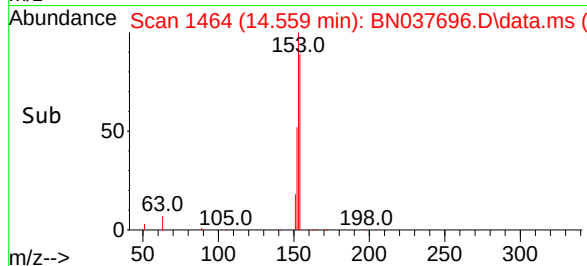
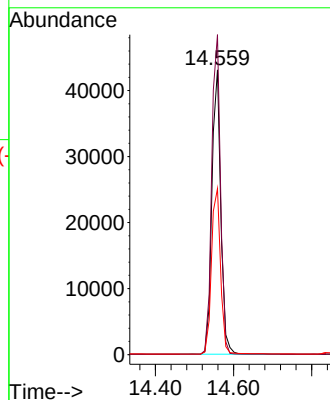
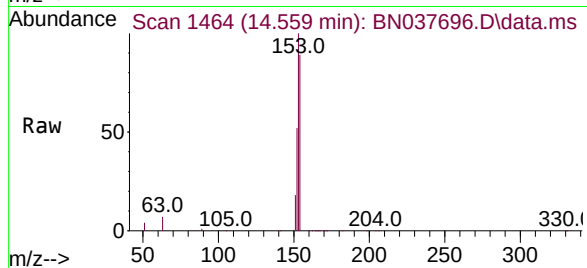
Tgt Ion:154 Resp: 67901

Ion Ratio Lower Upper

154 100

153 111.5 89.8 134.8

152 59.8 50.2 75.2



#18

Fluorene

Concen: 3.479 ng

RT: 15.535 min Scan# 1555

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

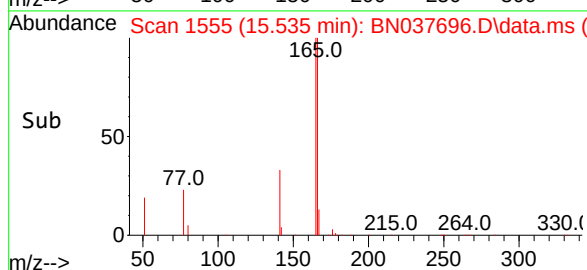
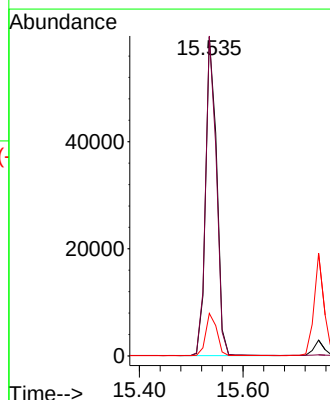
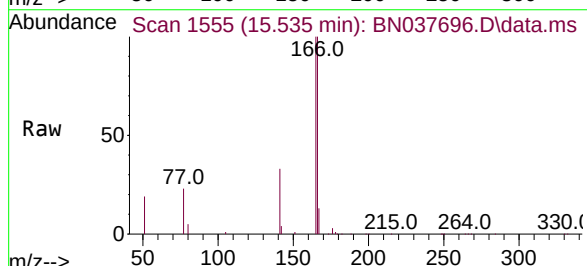
Tgt Ion:166 Resp: 85576

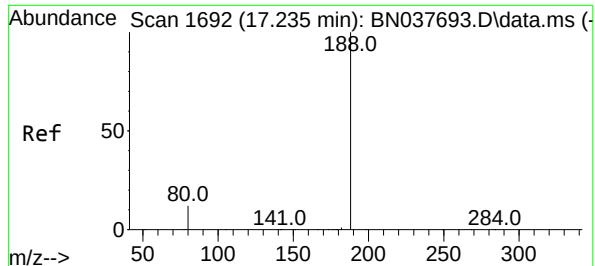
Ion Ratio Lower Upper

166 100

165 96.7 79.6 119.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

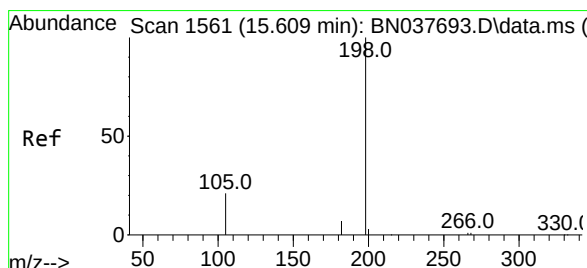
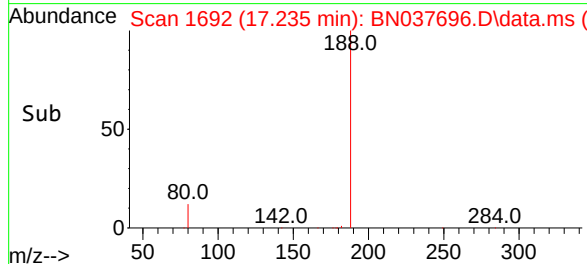
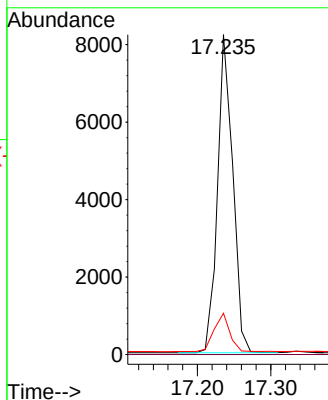
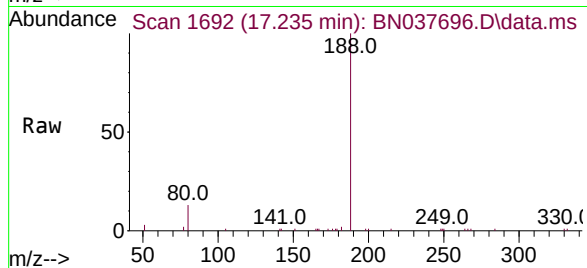
Tgt Ion:188 Resp: 11925

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 4.008 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

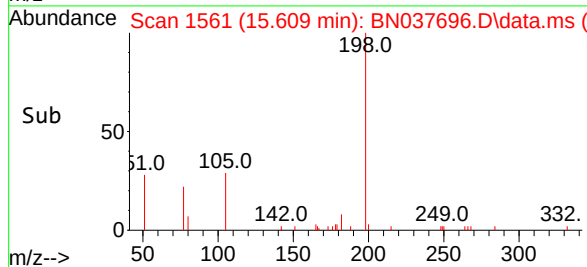
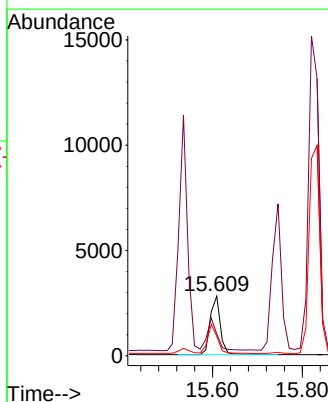
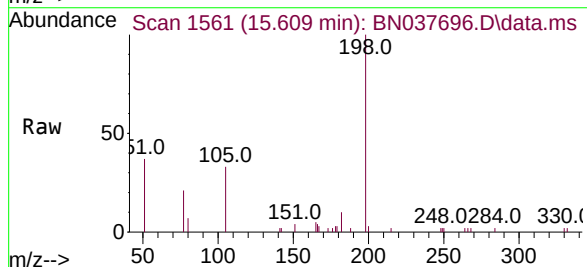
Tgt Ion:198 Resp: 4427

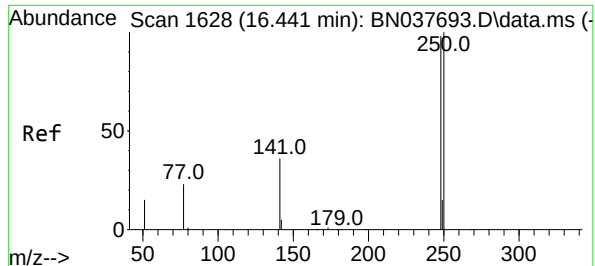
Ion Ratio Lower Upper

198 100

51 36.6 95.1 142.7#

105 32.9 53.8 80.6#

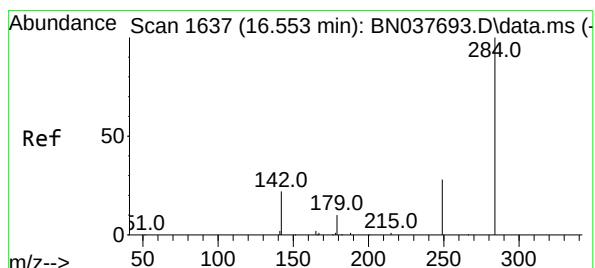
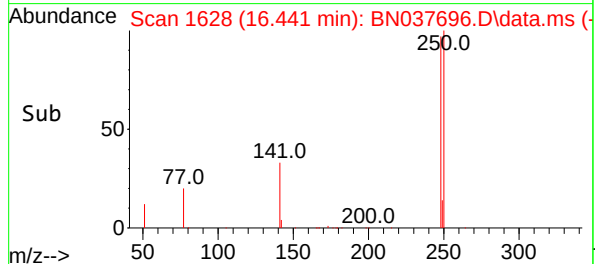
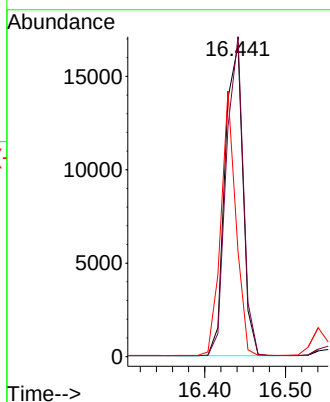
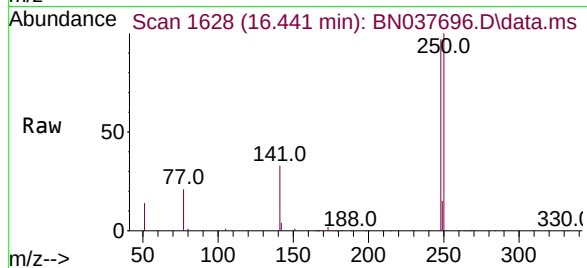




#21
4-Bromophenyl-phenylether
Concen: 3.300 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

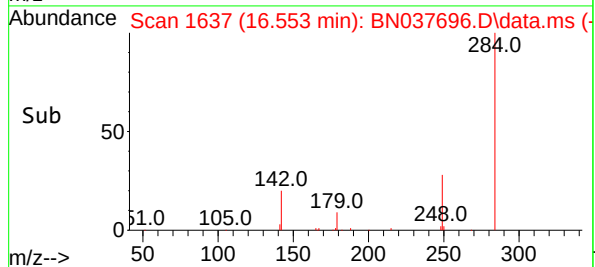
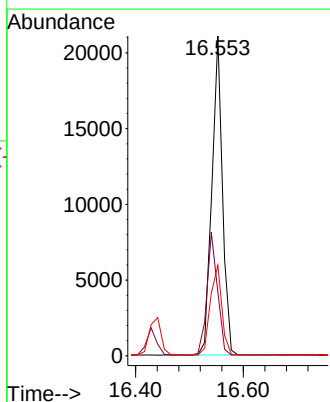
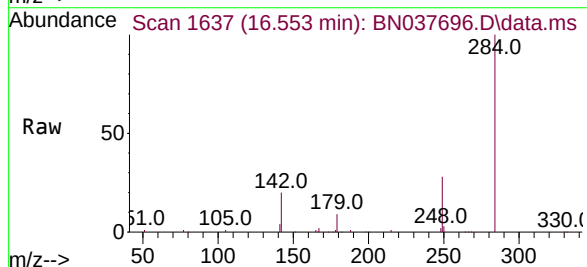
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

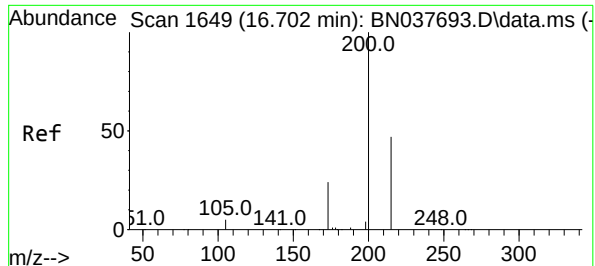
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.8	81.5	122.3
141	33.7	30.8	46.2



#22
Hexachlorobenzene
Concen: 3.226 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.5	30.9	46.3
249	30.4	24.8	37.2

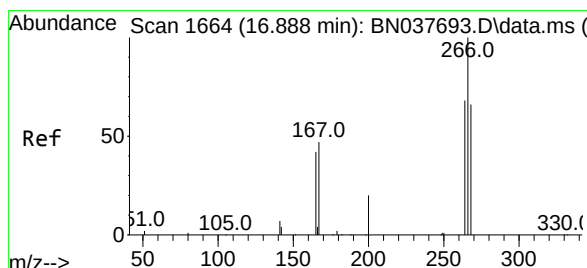
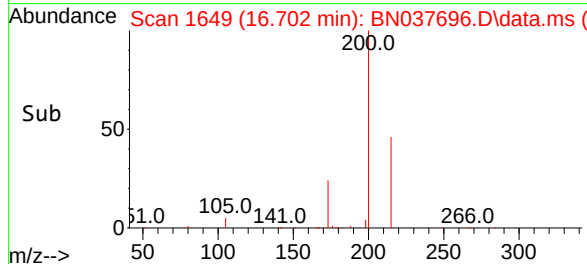
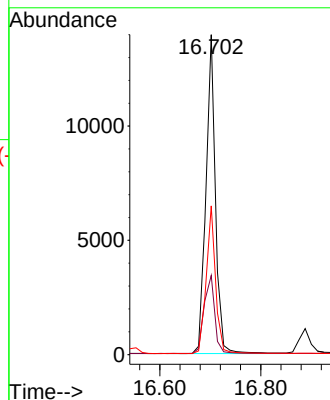
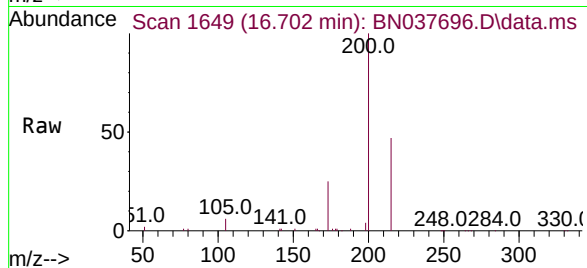




#23
Atrazine
Concen: 3.670 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

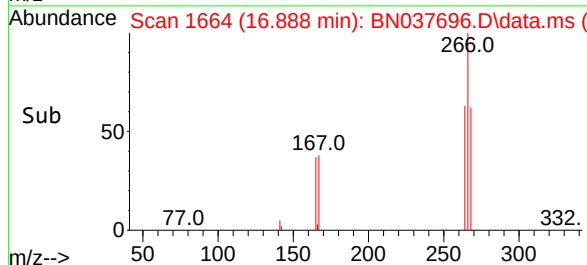
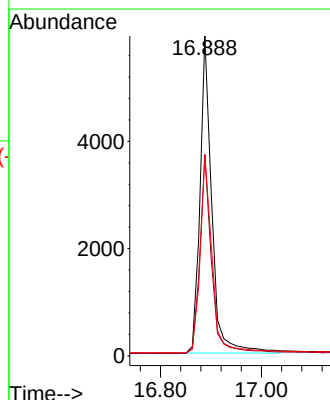
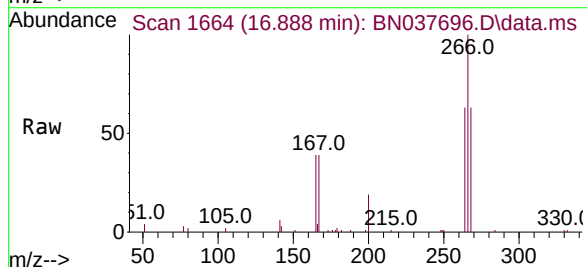
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

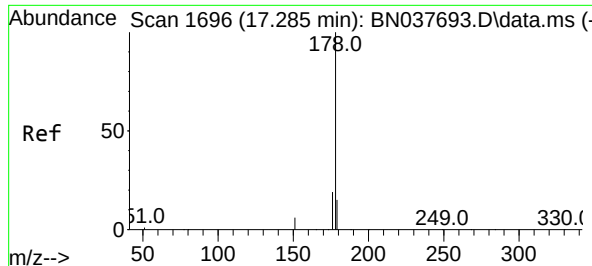
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.7	21.4	32.2
215	46.5	39.2	58.8



#24
Pentachlorophenol
Concen: 3.678 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	51.6	77.4
268	63.4	53.2	79.8

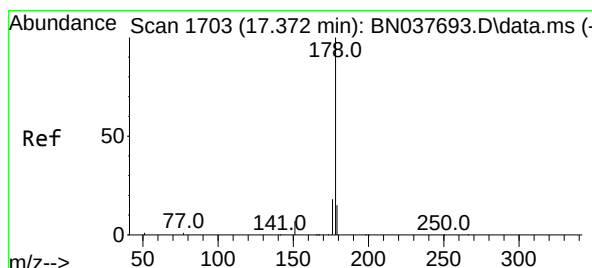
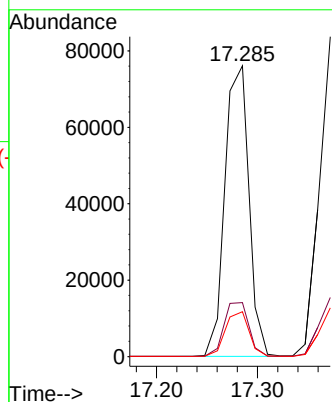
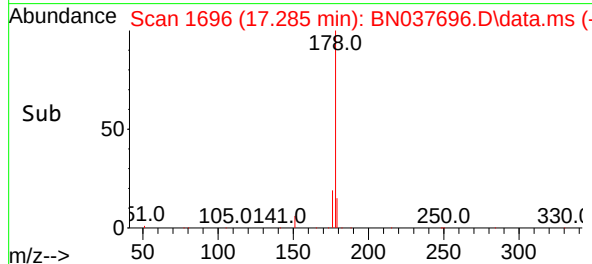
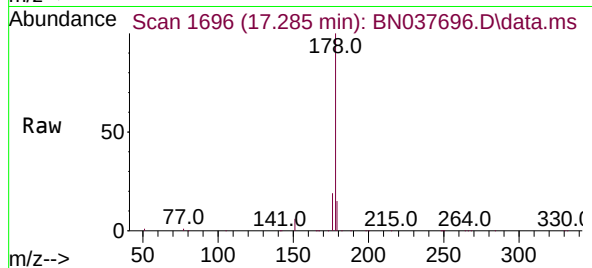




#25
Phenanthrene
Concen: 3.355 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

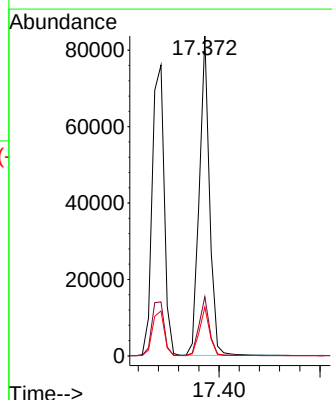
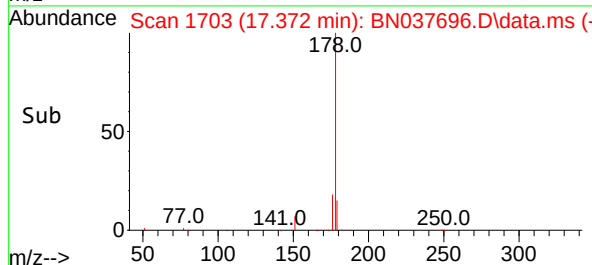
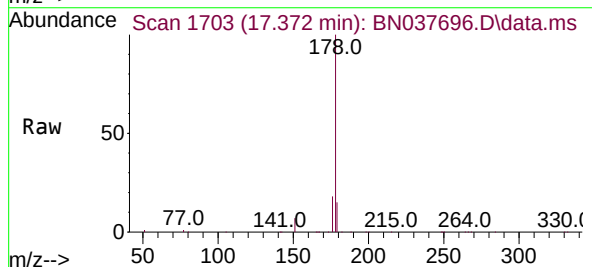
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

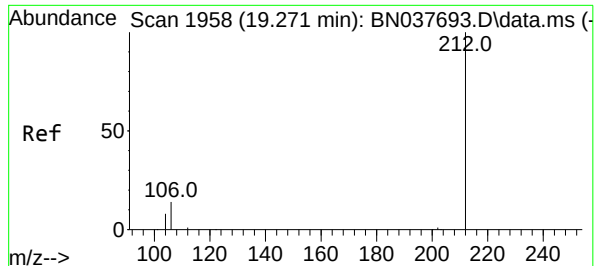
Tgt Ion:178 Resp: 125980
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.2 18.2



#26
Anthracene
Concen: 3.501 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:178 Resp: 116443
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 3.531 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

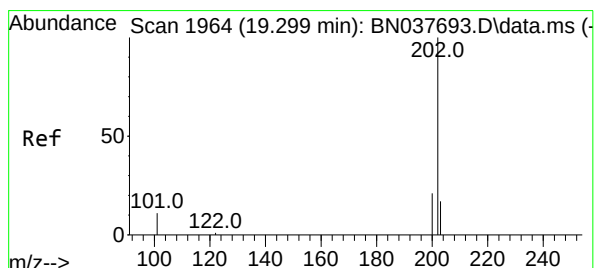
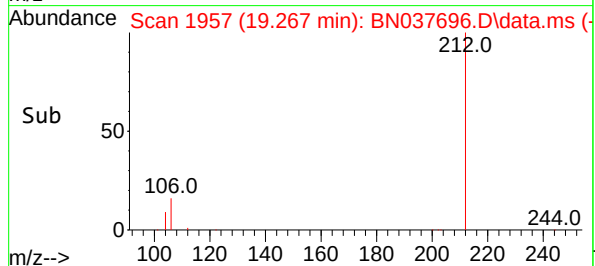
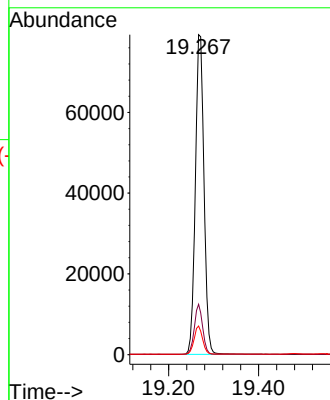
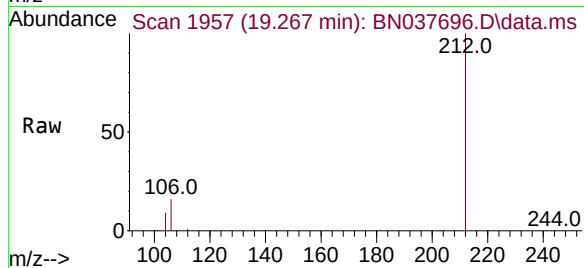
Tgt Ion:212 Resp: 105719

Ion Ratio Lower Upper

212 100

106 15.0 12.2 18.2

104 8.5 6.9 10.3



#28

Fluoranthene

Concen: 3.657 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

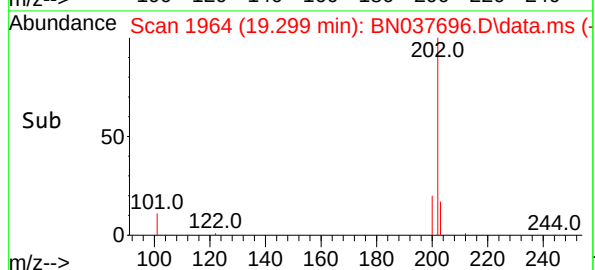
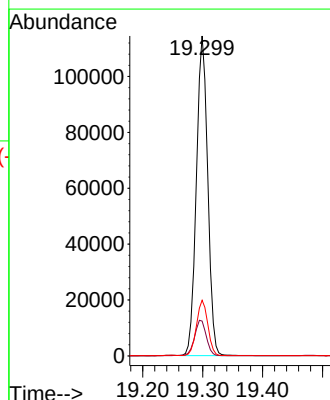
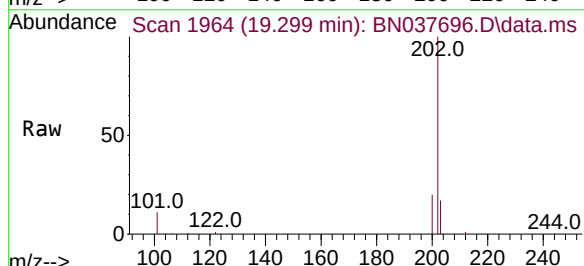
Tgt Ion:202 Resp: 150569

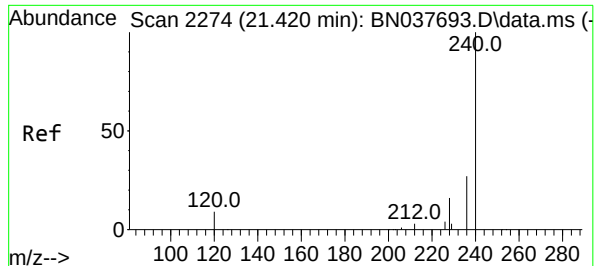
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

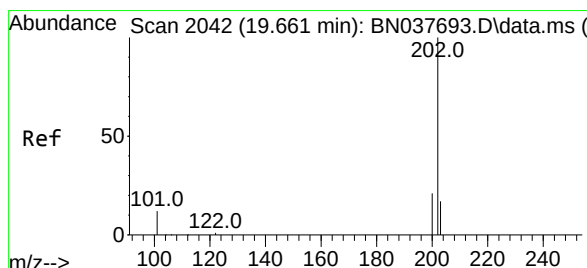
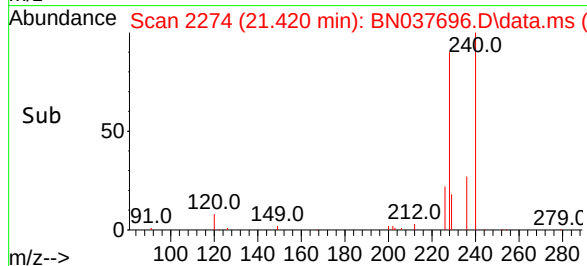
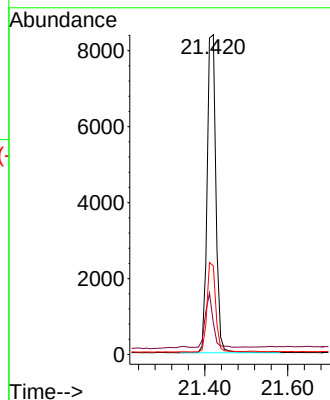
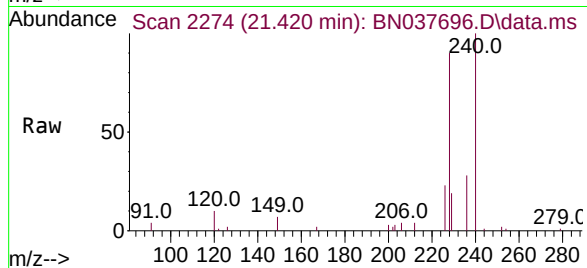
Tgt Ion:240 Resp: 12141

Ion Ratio Lower Upper

240 100

120 9.9 9.2 13.8

236 27.7 22.6 33.8



#30

Pyrene

Concen: 3.152 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

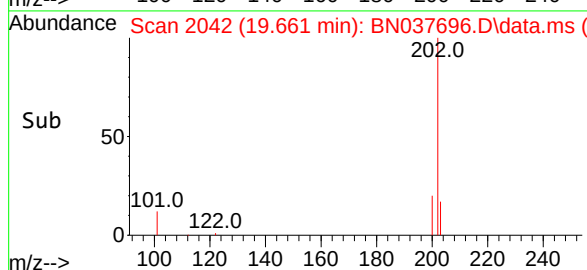
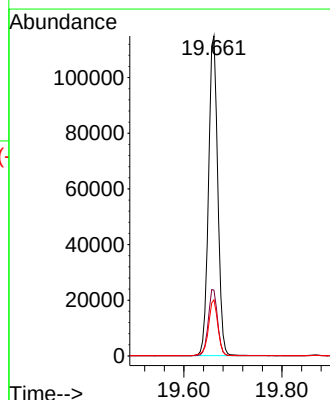
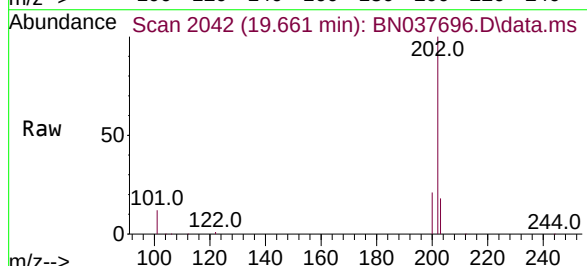
Tgt Ion:202 Resp: 149814

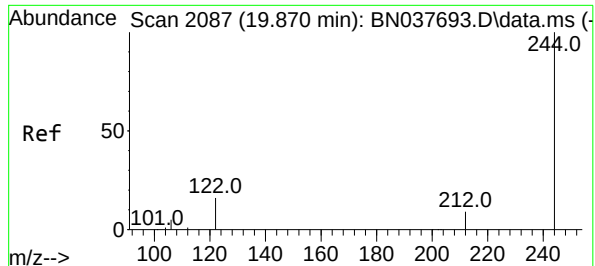
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.3 21.5

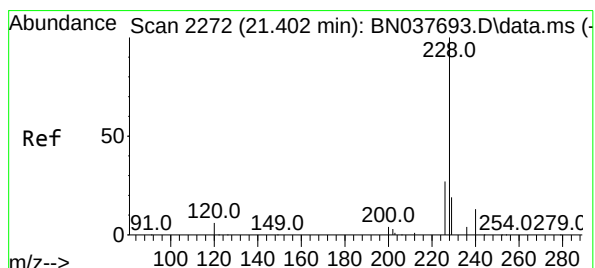
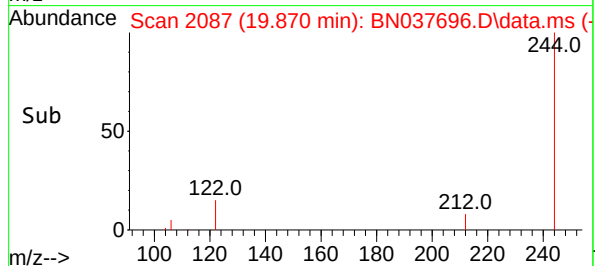
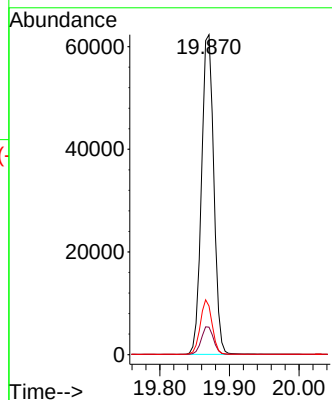
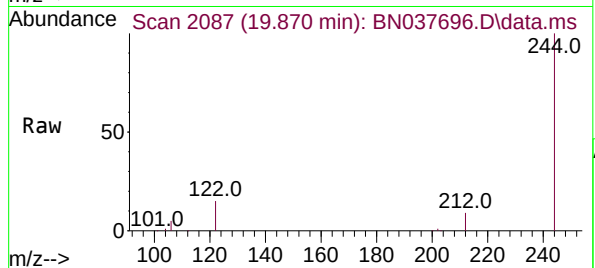




#31
Terphenyl-d14
Concen: 3.090 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

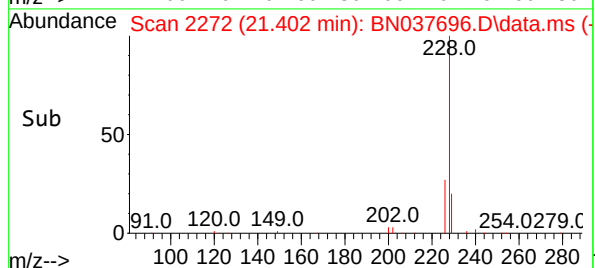
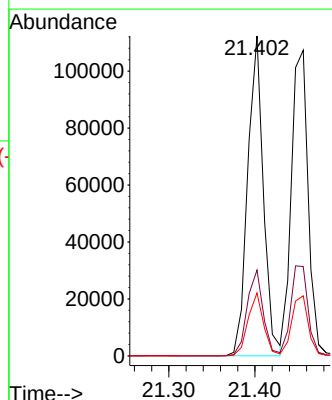
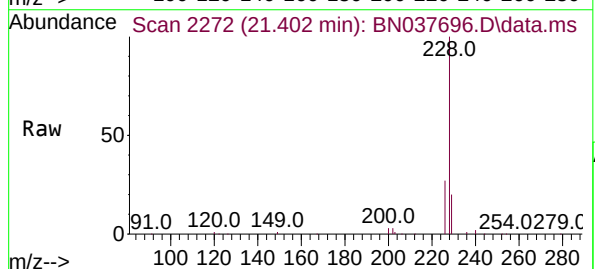
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

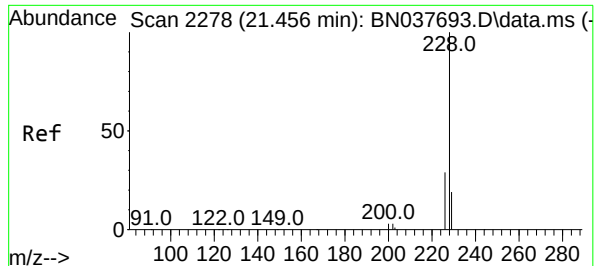
Tgt Ion:244 Resp: 76156
Ion Ratio Lower Upper
244 100
212 8.6 7.5 11.3
122 15.2 13.2 19.8



#32
Benzo(a)anthracene
Concen: 3.347 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:228 Resp: 141736
Ion Ratio Lower Upper
228 100
226 26.8 22.2 33.2
229 19.7 15.8 23.6

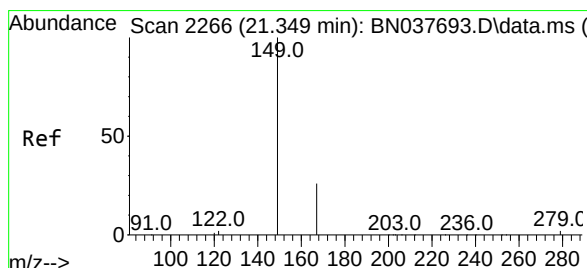
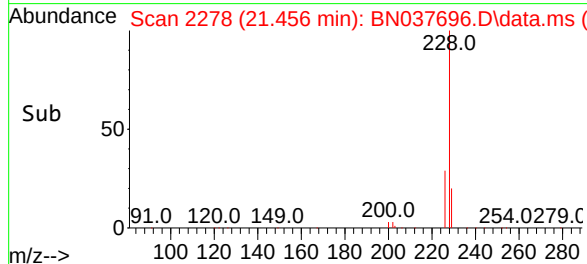
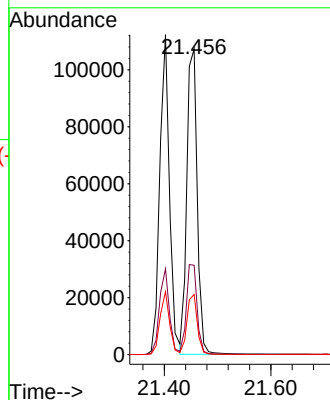
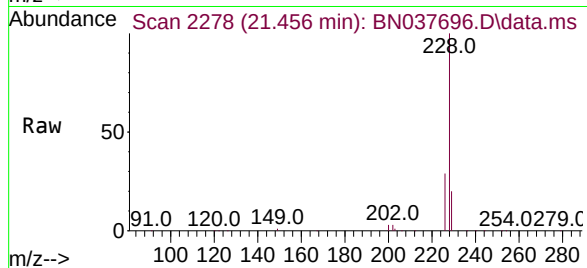




#33
Chrysene
Concen: 3.221 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

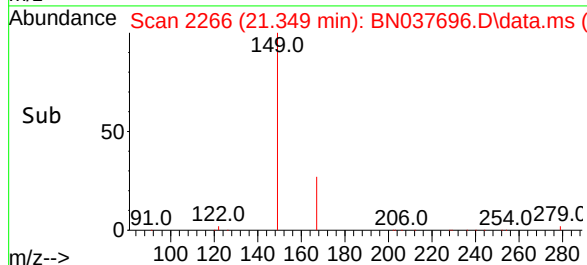
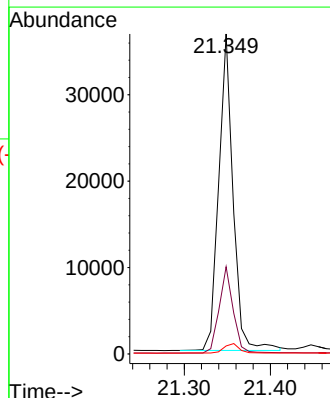
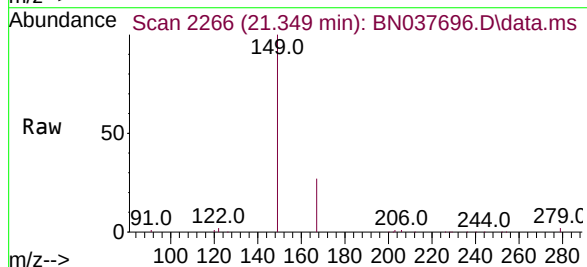
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

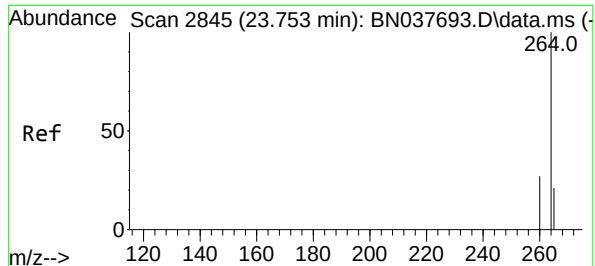
Tgt Ion:228 Resp: 146238
Ion Ratio Lower Upper
228 100
226 29.2 23.5 35.3
229 19.7 15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 3.385 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037696.D
Acq: 11 Sep 2025 12:56

Tgt Ion:149 Resp: 42504
Ion Ratio Lower Upper
149 100
167 26.6 20.8 31.2
279 3.1 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2845

Delta R.T. -0.003 min

Lab File: BN037696.D

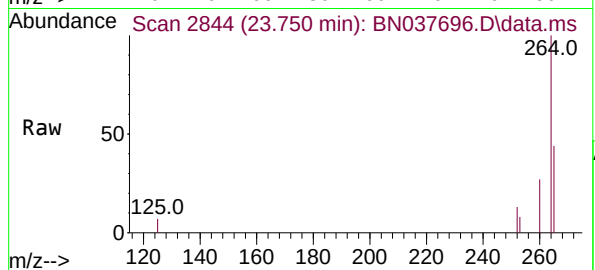
Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



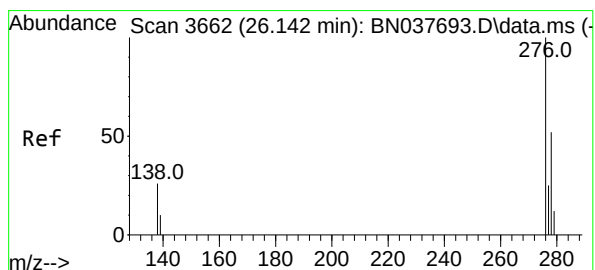
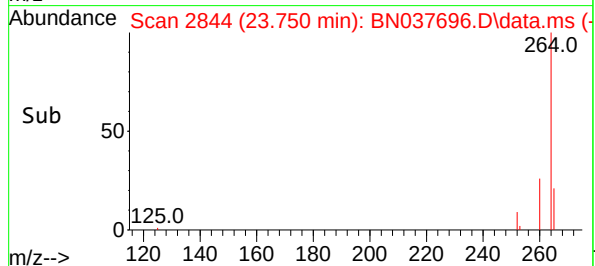
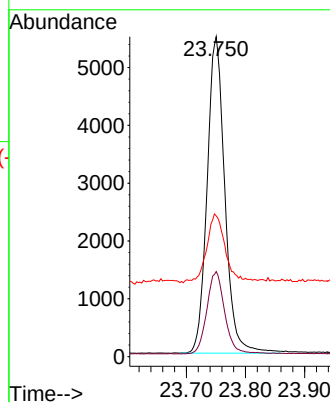
Tgt Ion:264 Resp: 11403

Ion Ratio Lower Upper

264 100

260 26.6 21.8 32.8

265 44.0 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.551 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.003 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

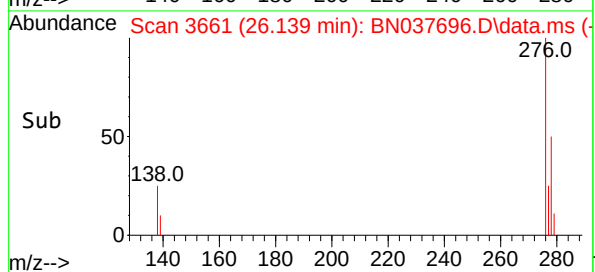
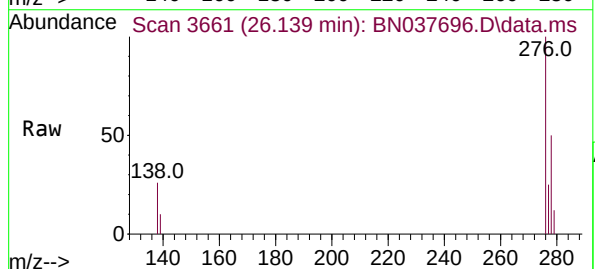
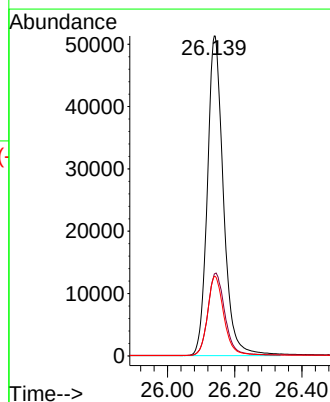
Tgt Ion:276 Resp: 170120

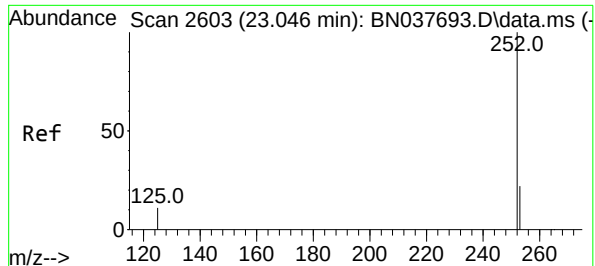
Ion Ratio Lower Upper

276 100

138 27.3 21.9 32.9

277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 3.401 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

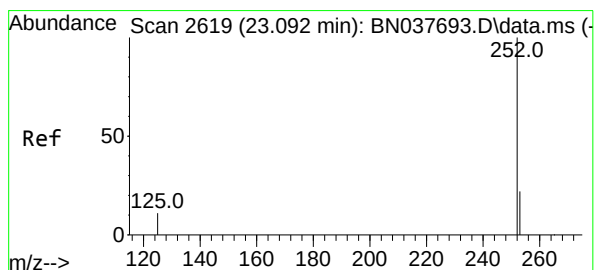
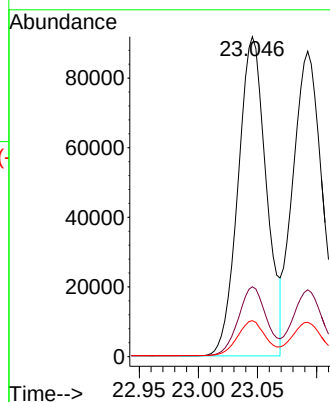
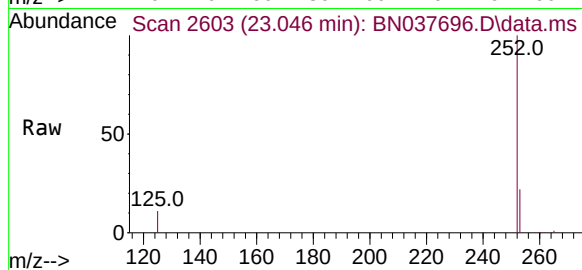
Tgt Ion:252 Resp: 152726

Ion Ratio Lower Upper

252 100

253 21.8 19.4 29.2

125 11.2 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 3.378 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

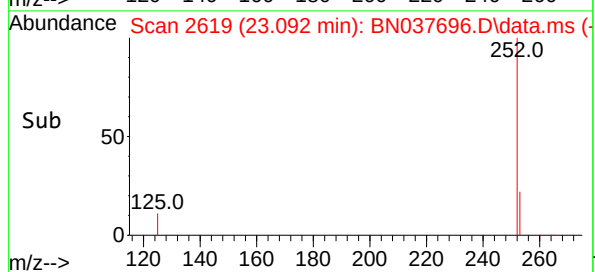
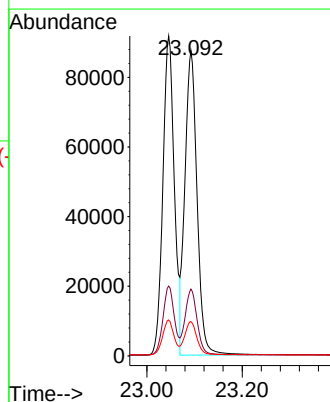
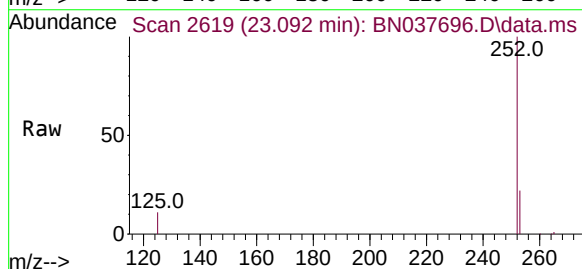
Tgt Ion:252 Resp: 154690

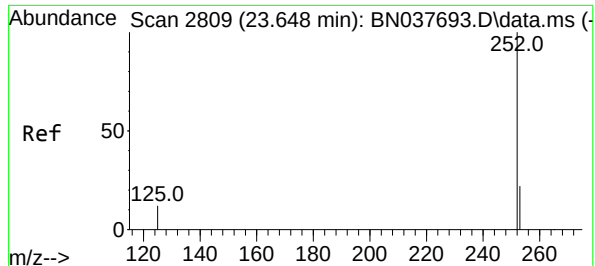
Ion Ratio Lower Upper

252 100

253 21.9 19.4 29.0

125 11.3 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 3.469 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

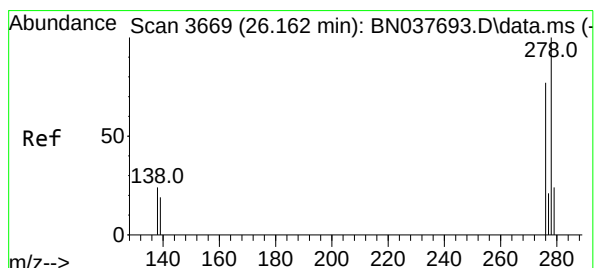
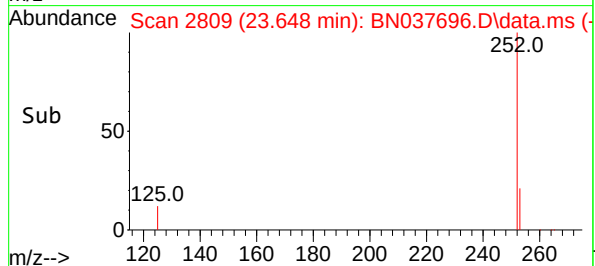
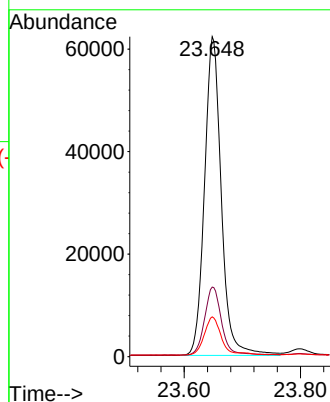
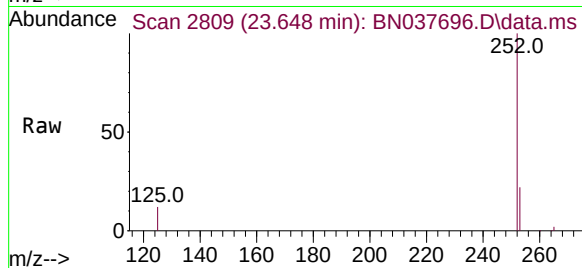
Tgt Ion:252 Resp: 124741

Ion Ratio Lower Upper

252 100

253 21.7 20.8 31.2

125 12.4 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 3.623 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037696.D

Acq: 11 Sep 2025 12:56

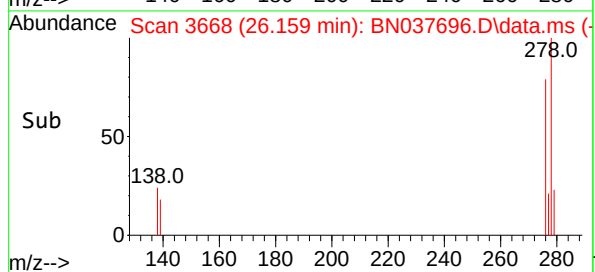
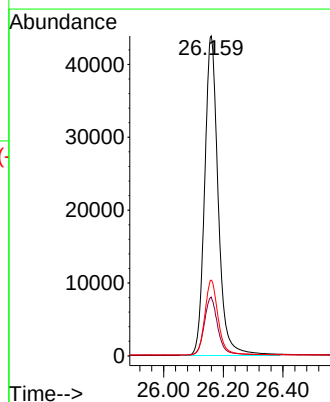
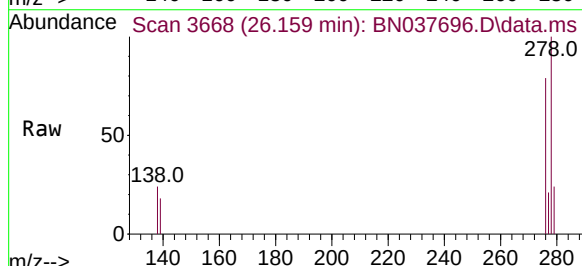
Tgt Ion:278 Resp: 138597

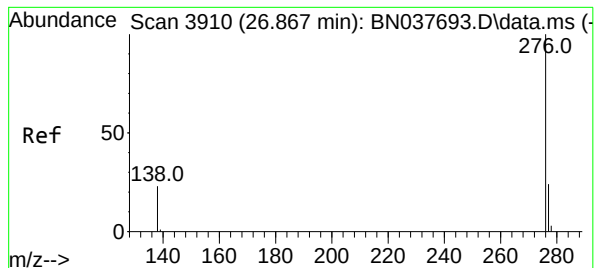
Ion Ratio Lower Upper

278 100

139 18.4 17.8 26.6

279 23.7 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 3.415 ng

RT: 26.864 min Scan# 3910

Delta R.T. -0.003 min

Lab File: BN037696.D

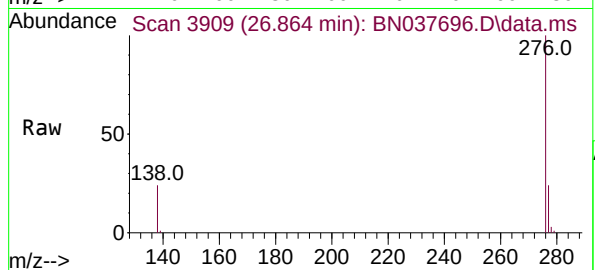
Acq: 11 Sep 2025 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



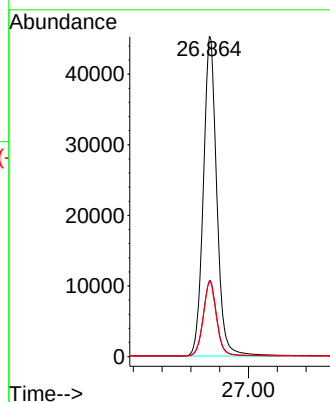
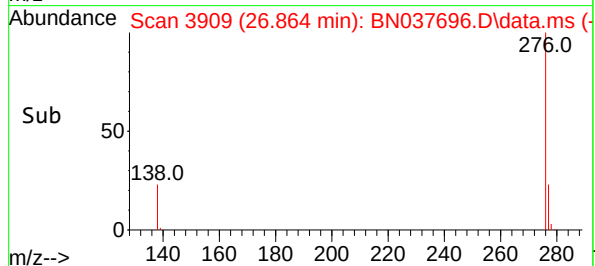
Tgt Ion:276 Resp: 146601

Ion Ratio Lower Upper

276 100

277 23.6 20.6 31.0

138 23.6 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037697.D
 Acq On : 11 Sep 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

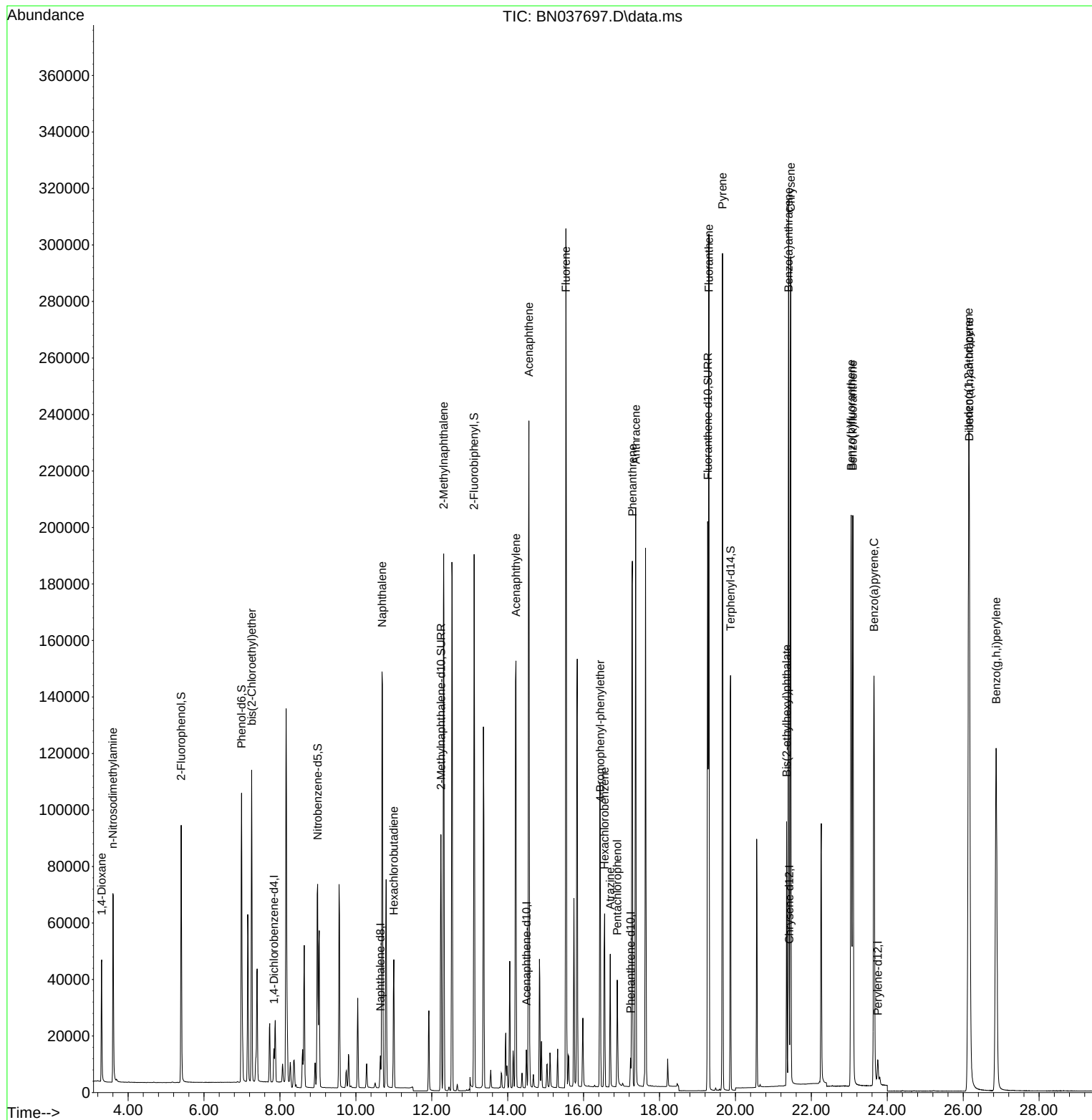
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5654	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	14362	0.400	ng	0.00
13) Acenaphthene-d10	14.495	164	7056	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12767	0.400	ng	0.00
29) Chrysene-d12	21.420	240	13060	0.400	ng	0.00
35) Perylene-d12	23.753	264	12009	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	70949	5.466	ng	0.00
5) Phenol-d6	6.988	99	91084	5.412	ng	0.00
8) Nitrobenzene-d5	8.993	82	58397	5.559	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	119992	6.306	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.115	172	157398	5.334	ng	0.00
27) Fluoranthene-d10	19.271	212	215419	6.721	ng	0.00
31) Terphenyl-d14	19.870	244	145595	5.493	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	27447	4.661	ng	97
3) n-Nitrosodimethylamine	3.601	42	38960	5.064	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	75108	4.995	ng	100
9) Naphthalene	10.690	128	206218	5.253	ng	99
10) Hexachlorobutadiene	11.000	225	36218	5.099	ng	# 100
12) 2-Methylnaphthalene	12.314	142	132802	5.469	ng	99
16) Acenaphthylene	14.217	152	178140	5.505	ng	100
17) Acenaphthene	14.559	154	118915	5.435	ng	97
18) Fluorene	15.535	166	147419	5.563	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	45357	5.448	ng	98
22) Hexachlorobenzene	16.553	284	49411	5.160	ng	99
23) Atrazine	16.702	200	33341	6.295	ng	96
24) Pentachlorophenol	16.888	266	18297	6.581	ng	97
25) Phenanthrene	17.285	178	218722	5.441	ng	100
26) Anthracene	17.372	178	204421	5.741	ng	100
28) Fluoranthene	19.299	202	261250	5.926	ng	99
30) Pyrene	19.661	202	259551	5.077	ng	100
32) Benzo(a)anthracene	21.402	228	248434	5.454	ng	99
33) Chrysene	21.456	228	251956	5.158	ng	100
34) Bis(2-ethylhexyl)phtha...	21.349	149	82262	6.091	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.145	276	303960	6.024	ng	99
37) Benzo(b)fluoranthene	23.049	252	266973	5.645	ng	# 94
38) Benzo(k)fluoranthene	23.093	252	263641	5.466	ng	# 94
39) Benzo(a)pyrene	23.651	252	220208	5.816	ng	# 90
40) Dibenzo(a,h)anthracene	26.162	278	245606	6.096	ng	# 91
41) Benzo(g,h,i)perylene	26.867	276	258594	5.720	ng	95

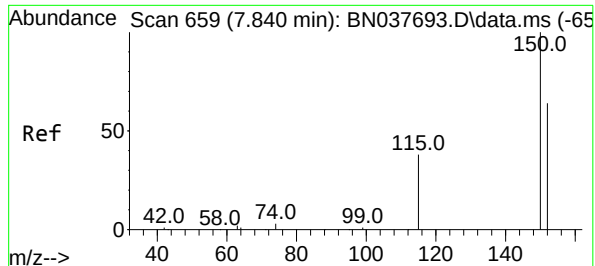
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037697.D
Acq On : 11 Sep 2025 13:33
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 11 14:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration

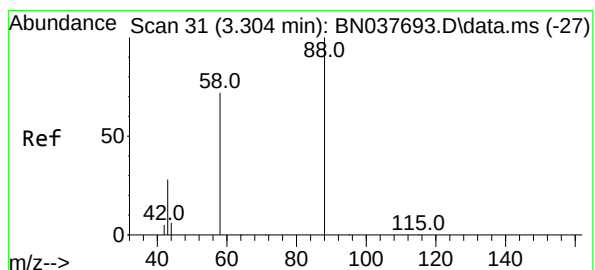
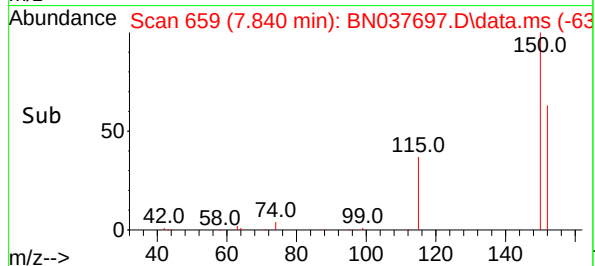
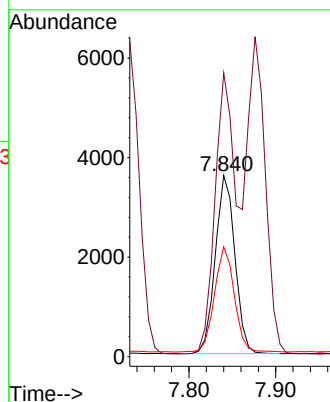
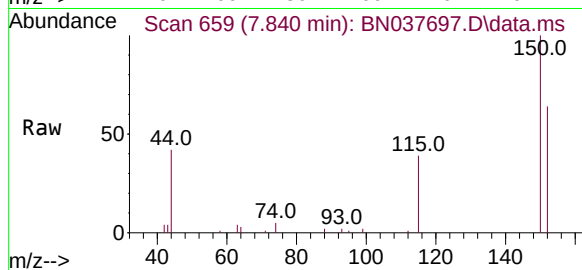




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

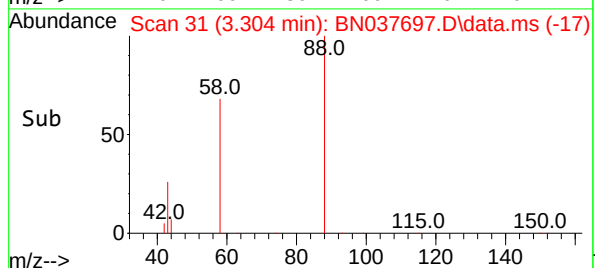
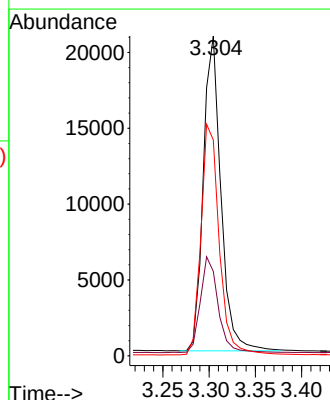
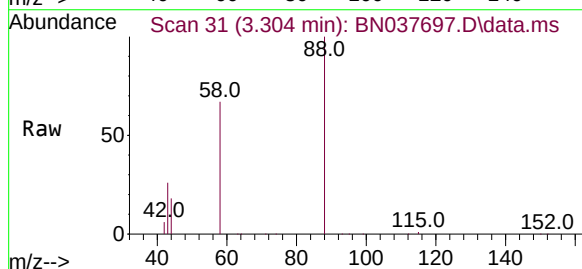
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

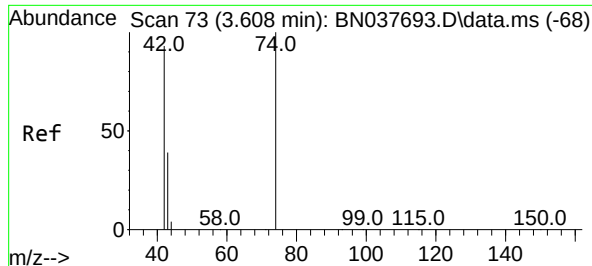
Tgt Ion:152 Resp: 5654
Ion Ratio Lower Upper
152 100
150 156.6 124.5 186.7
115 60.7 49.2 73.8



#2
1,4-Dioxane
Concen: 4.661 ng
RT: 3.304 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 88 Resp: 27447
Ion Ratio Lower Upper
88 100
43 30.7 26.8 40.2
58 76.0 61.9 92.9

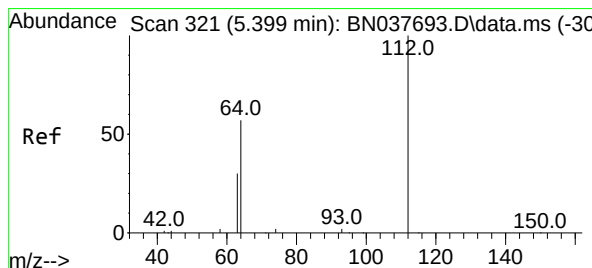
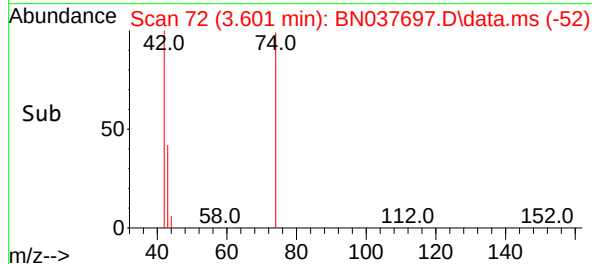
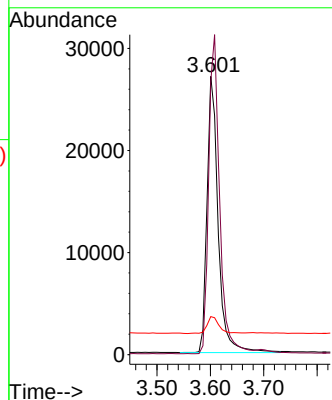
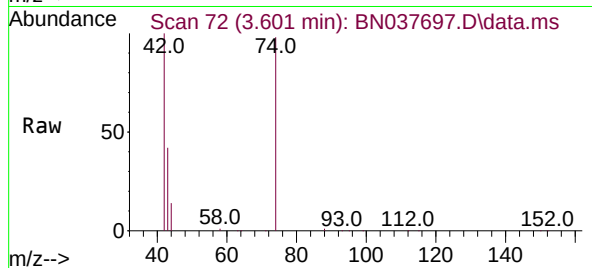




#3
n-Nitrosodimethylamine
Concen: 5.064 ng
RT: 3.601 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

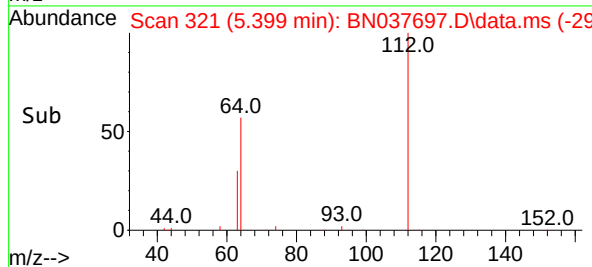
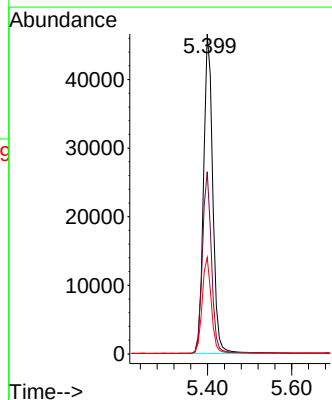
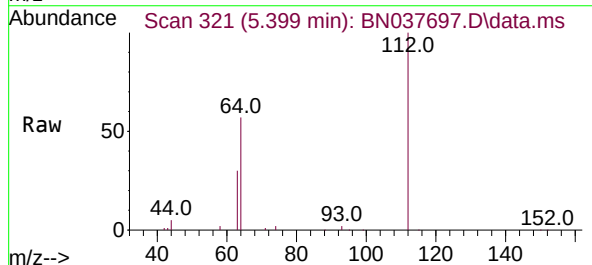
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

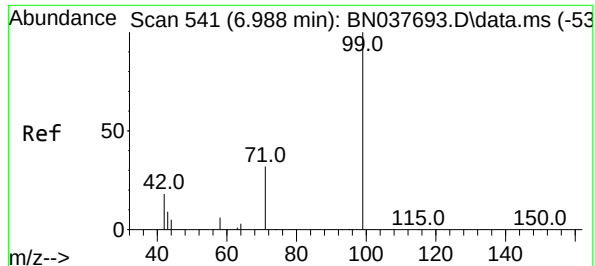
Tgt Ion: 42 Resp: 38960
Ion Ratio Lower Upper
42 100
74 114.1 86.0 129.0
44 6.6 8.4 12.6#



#4
2-Fluorophenol
Concen: 5.466 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 112 Resp: 70949
Ion Ratio Lower Upper
112 100
64 56.2 44.9 67.3
63 30.0 24.7 37.1

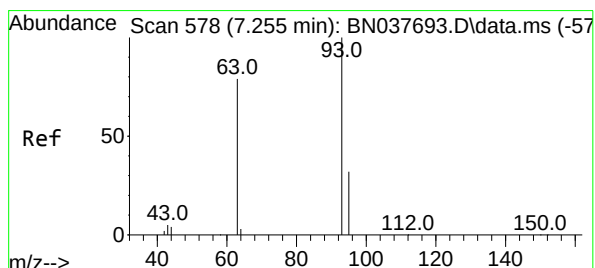
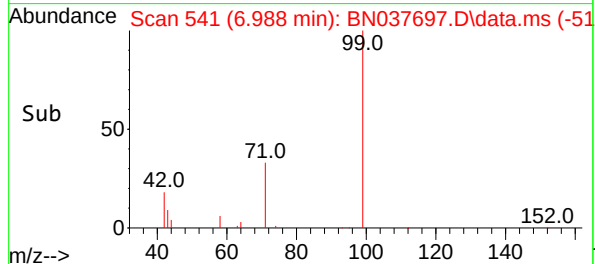
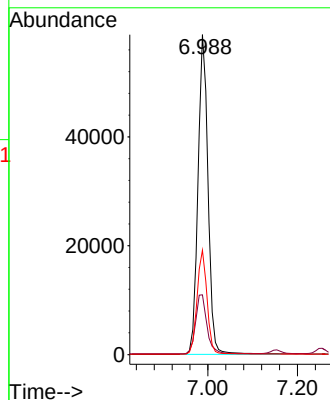
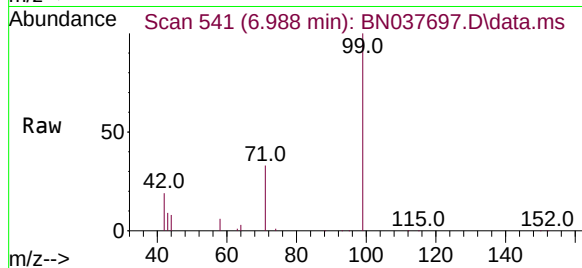




#5
Phenol-d6
Concen: 5.412 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

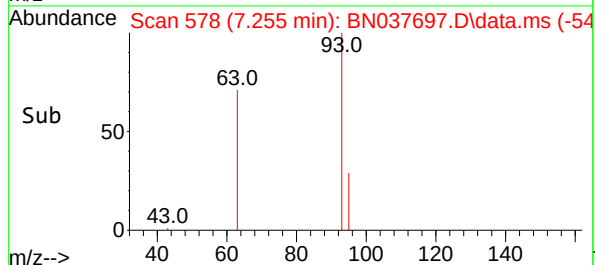
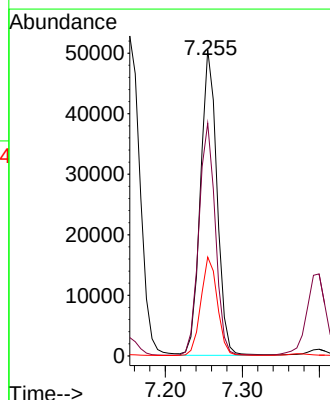
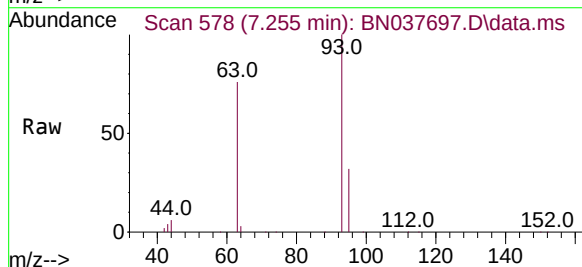
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

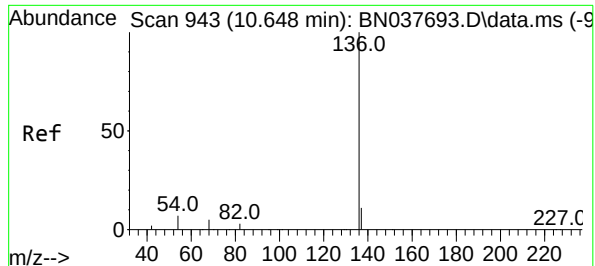
Tgt Ion: 99 Resp: 91084
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 4.995 ng
RT: 7.255 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion: 93 Resp: 75108
Ion Ratio Lower Upper
93 100
63 75.4 60.6 90.8
95 32.1 26.0 39.0

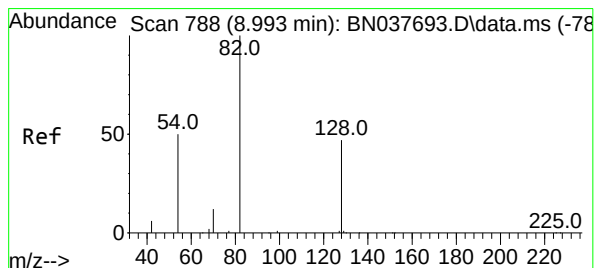
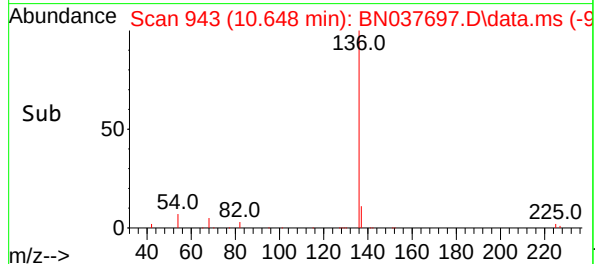
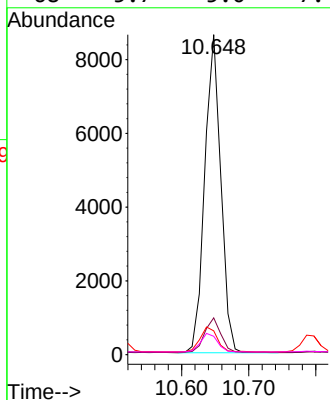
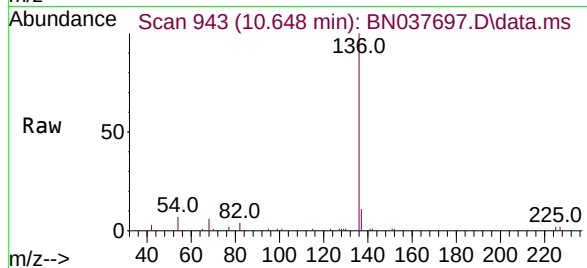




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

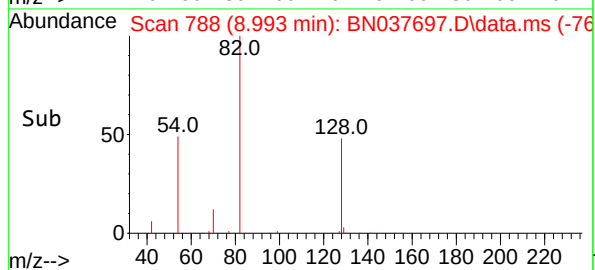
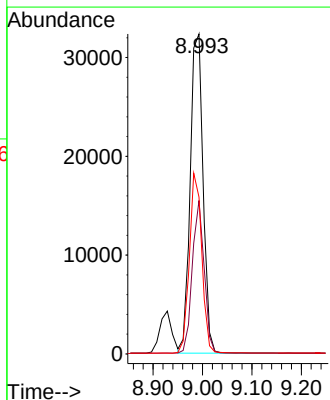
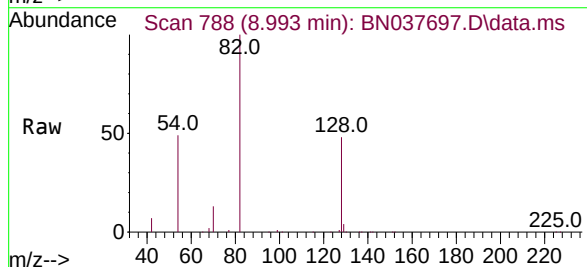
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

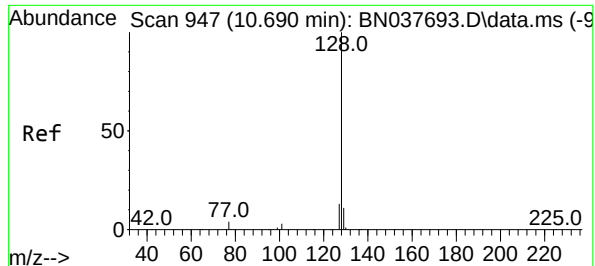
Tgt Ion:	136	Resp:	14362
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.4	6.3	9.5
68	5.7	5.0	7.4



#8
Nitrobenzene-d5
Concen: 5.559 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:	82	Resp:	58397
Ion	Ratio	Lower	Upper
82	100		
128	47.9	38.3	57.5
54	49.0	41.4	62.2

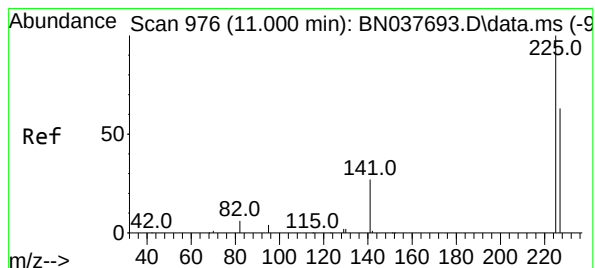
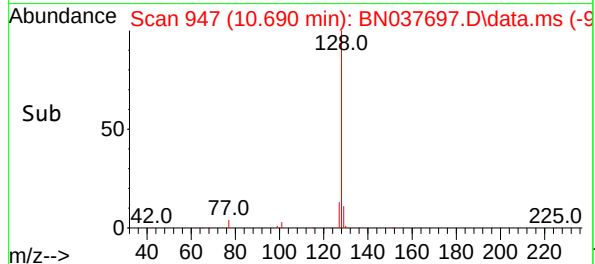
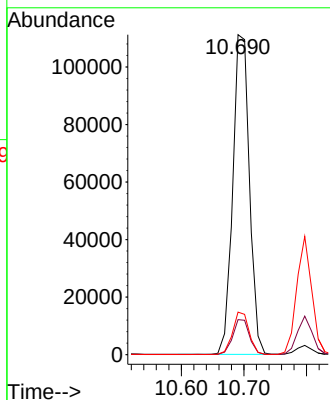
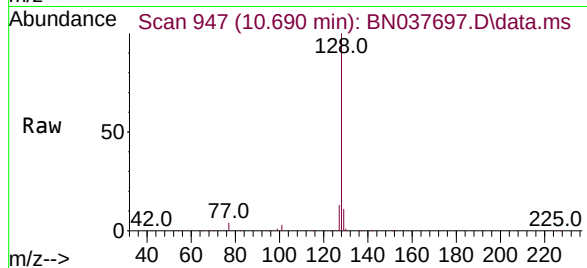




#9
Naphthalene
Concen: 5.253 ng
RT: 10.690 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

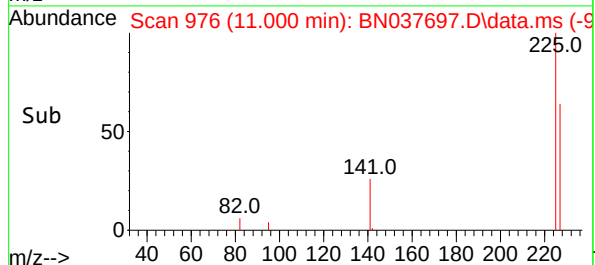
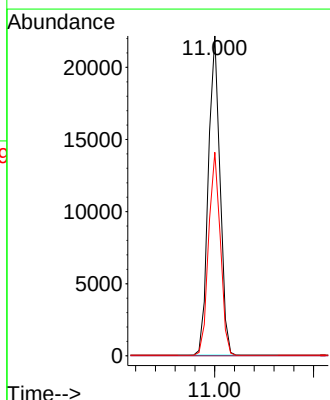
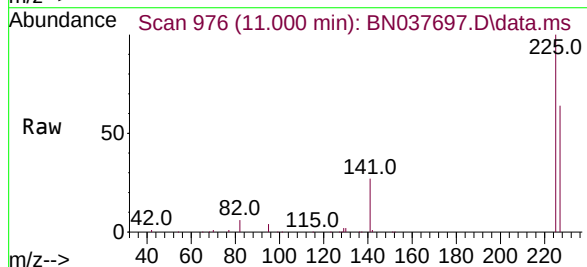
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

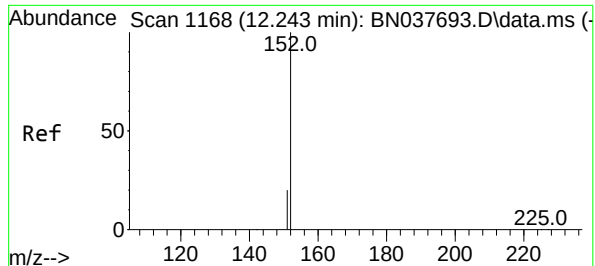
Tgt Ion:128 Resp: 206218
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 5.099 ng
RT: 11.000 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:225 Resp: 36218
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.9 76.3

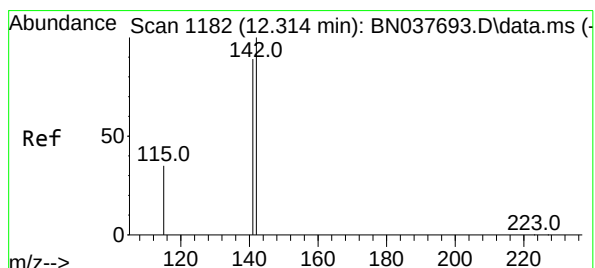
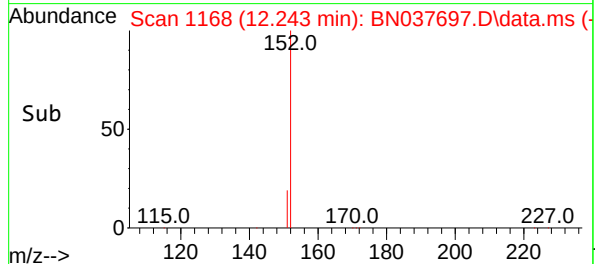
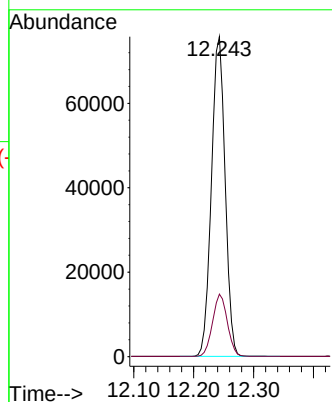
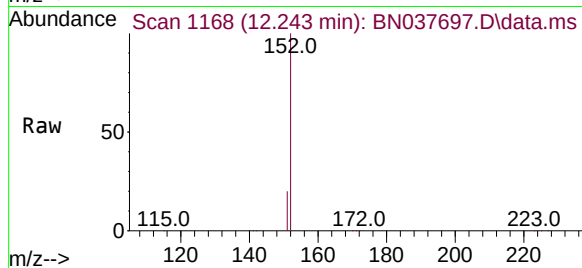




#11
2-Methylnaphthalene-d10
Concen: 6.306 ng
RT: 12.243 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

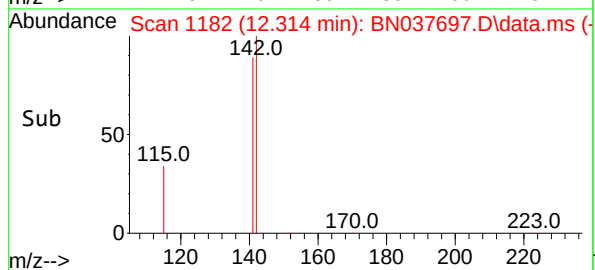
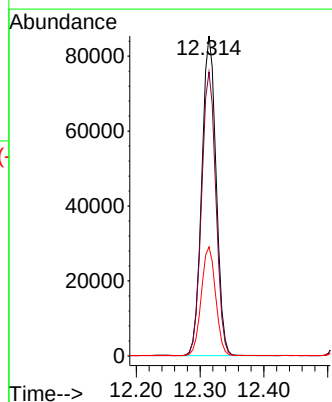
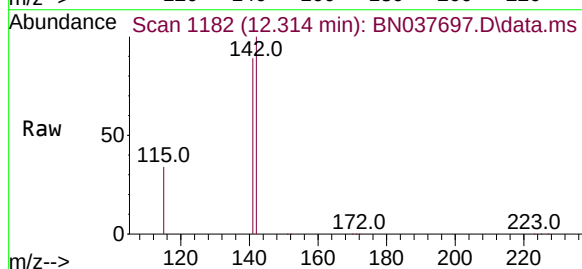
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

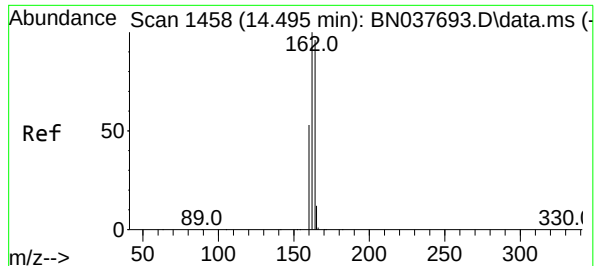
Tgt Ion:152 Resp: 119992
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 5.469 ng
RT: 12.314 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:142 Resp: 132802
Ion Ratio Lower Upper
142 100
141 88.7 71.6 107.4
115 34.1 28.6 43.0

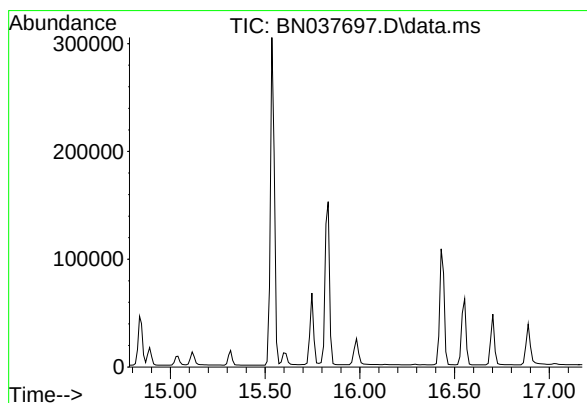
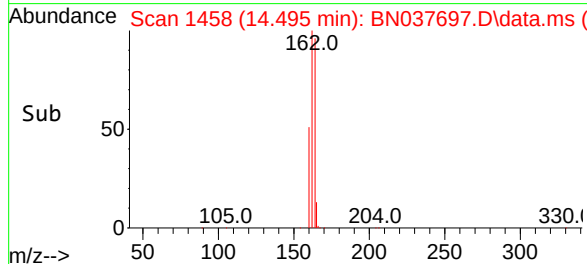
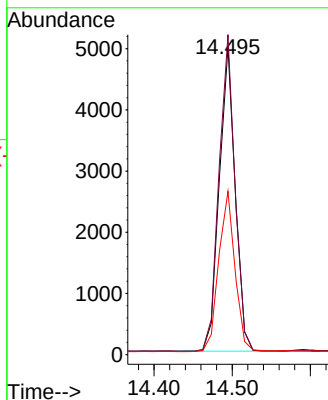
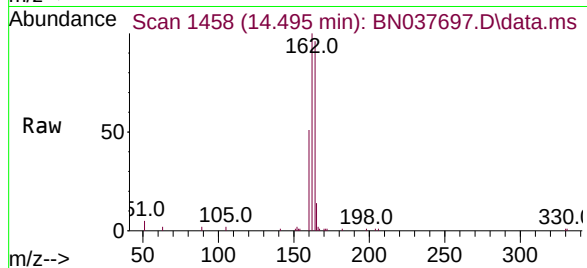




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

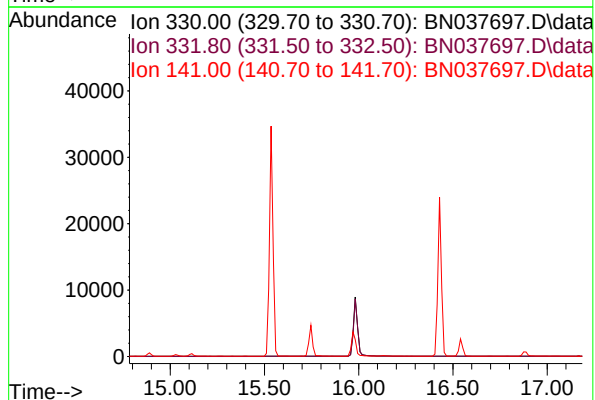
Tgt Ion	164	Resp	7056
Ion Ratio	Lower	Upper	
164	100		
162	104.0	83.1	124.7
160	53.1	44.3	66.5

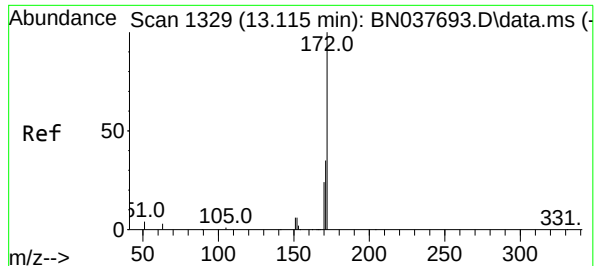


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.98 min

Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion	330
Sig	Exp Ratio
330	100
332	94.1
141	43.7





#15

2-Fluorobiphenyl

Concen: 5.334 ng

RT: 13.115 min Scan# 1329

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

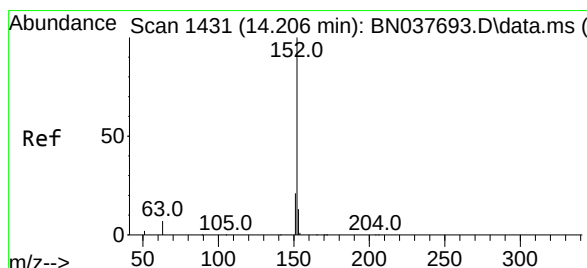
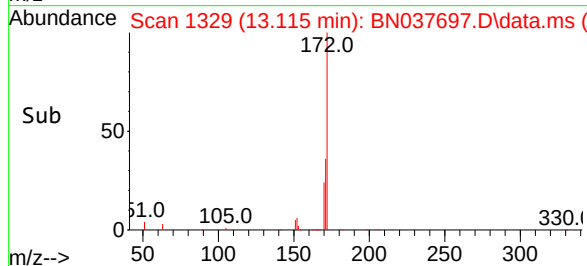
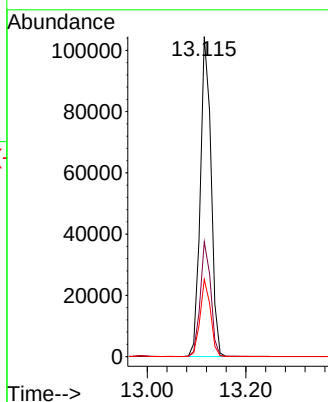
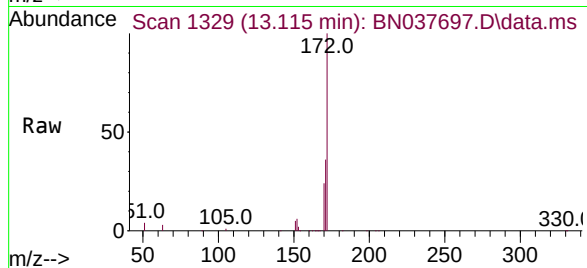
Tgt Ion:172 Resp: 157398

Ion Ratio Lower Upper

172 100

171 35.9 28.6 43.0

170 24.1 19.8 29.8



#16

Acenaphthylene

Concen: 5.505 ng

RT: 14.217 min Scan# 1432

Delta R.T. 0.011 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

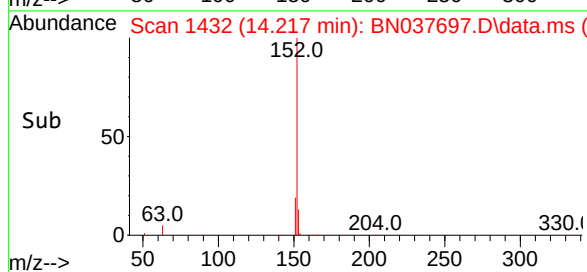
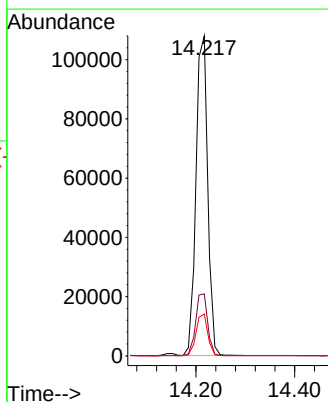
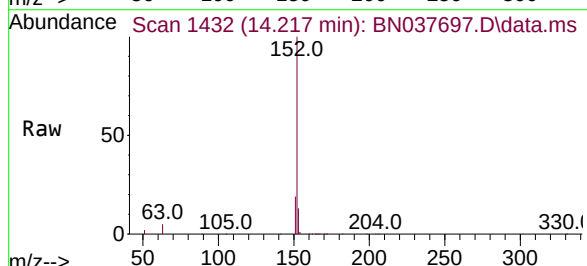
Tgt Ion:152 Resp: 178140

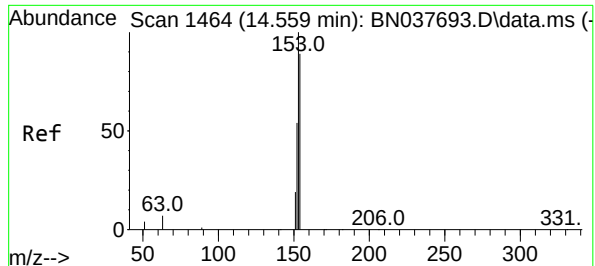
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.2

153 13.0 10.4 15.6

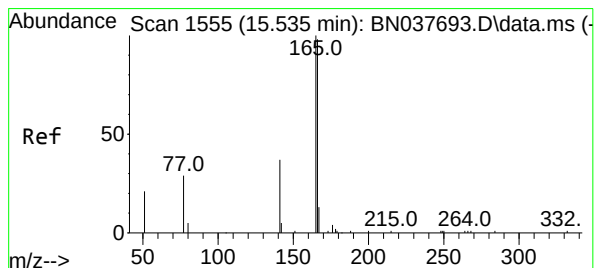
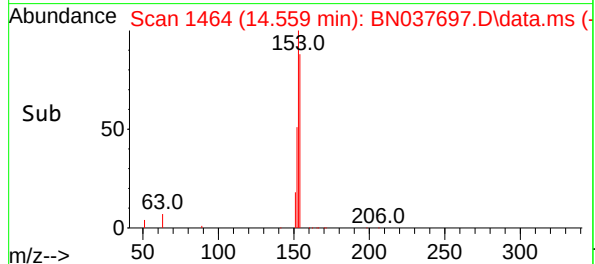
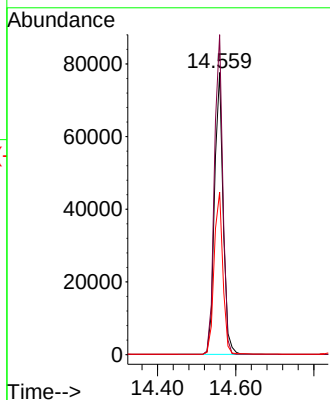
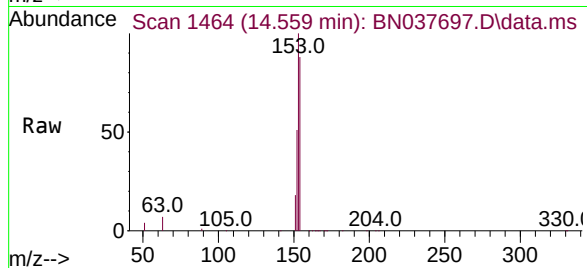




#17
Acenaphthene
Concen: 5.435 ng
RT: 14.559 min Scan# 1464
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

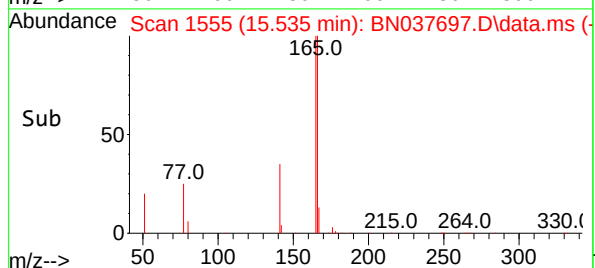
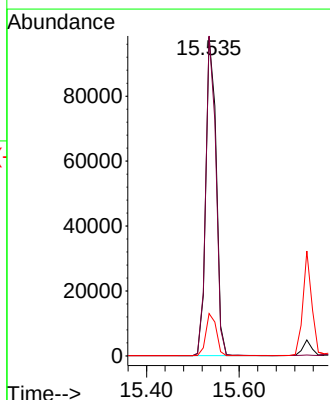
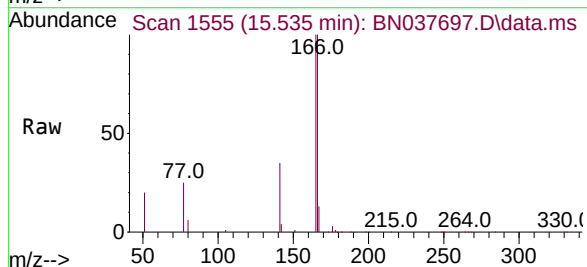
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

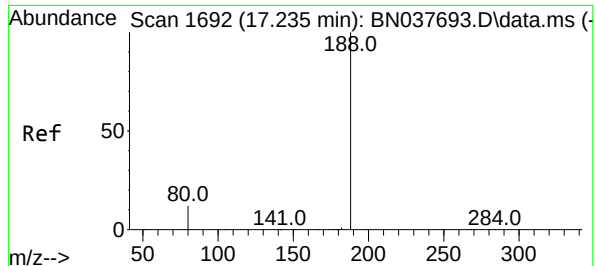
Tgt Ion:154 Resp: 118915
Ion Ratio Lower Upper
154 100
153 111.1 89.8 134.8
152 58.4 50.2 75.2



#18
Fluorene
Concen: 5.563 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:166 Resp: 147419
Ion Ratio Lower Upper
166 100
165 97.9 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

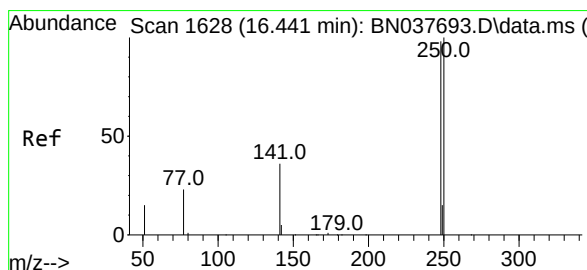
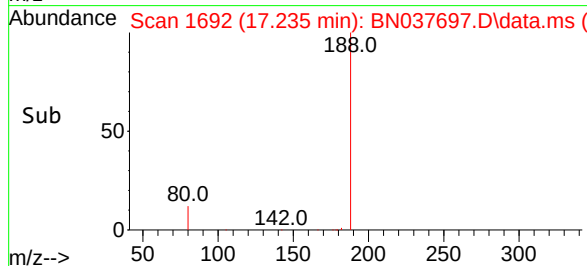
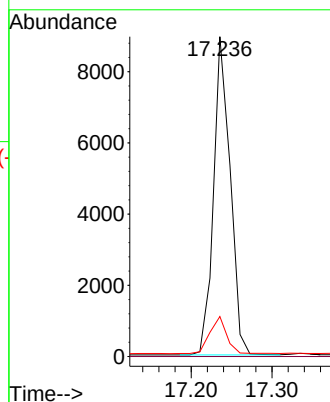
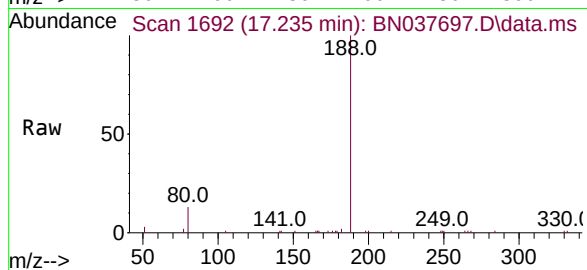
Tgt Ion:188 Resp: 12767

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 10.6 15.8



#21

4-Bromophenyl-phenylether

Concen: 5.448 ng

RT: 16.441 min Scan# 1628

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

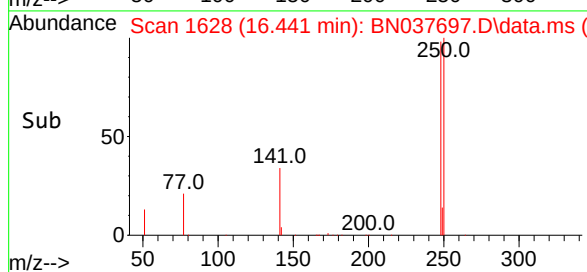
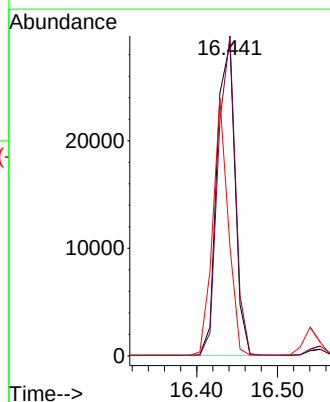
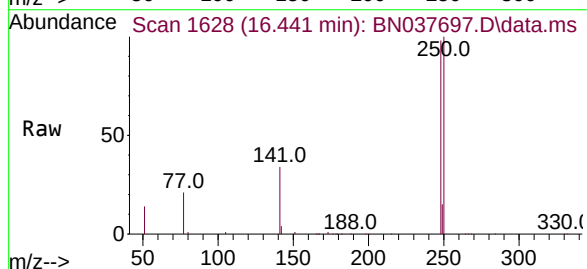
Tgt Ion:248 Resp: 45357

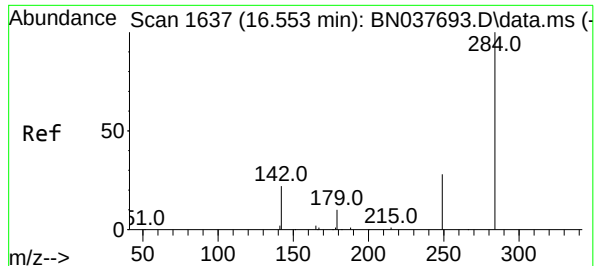
Ion Ratio Lower Upper

248 100

250 102.5 81.5 122.3

141 35.0 30.8 46.2





#22

Hexachlorobenzene

Concen: 5.160 ng

RT: 16.553 min Scan# 1637

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

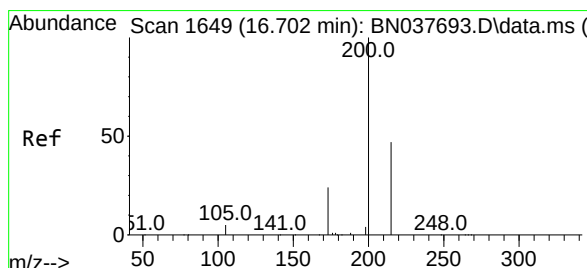
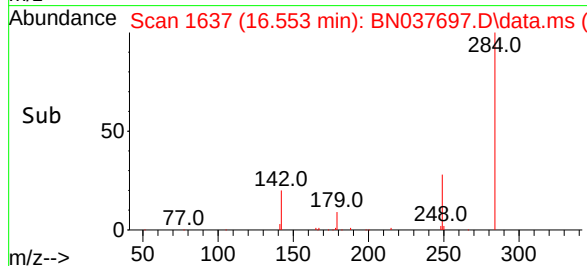
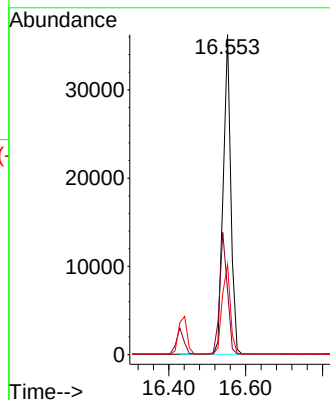
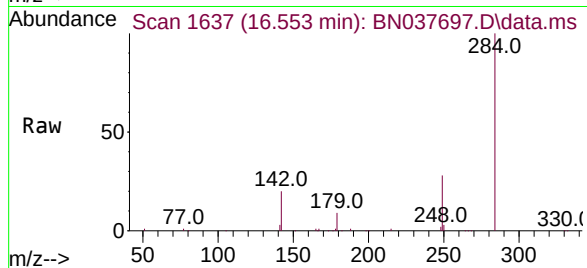
Tgt Ion:284 Resp: 49411

Ion Ratio Lower Upper

284 100

142 38.2 30.9 46.3

249 30.2 24.8 37.2



#23

Atrazine

Concen: 6.295 ng

RT: 16.702 min Scan# 1649

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

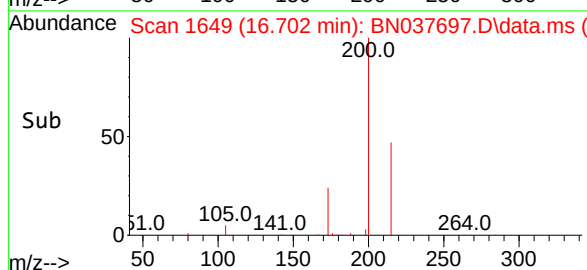
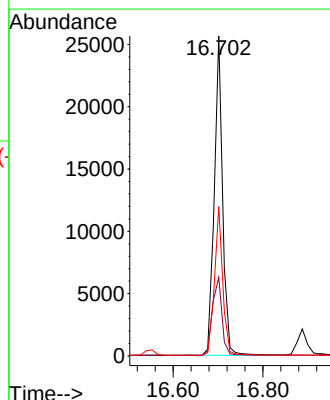
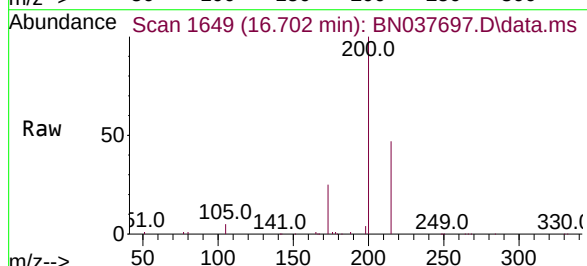
Tgt Ion:200 Resp: 33341

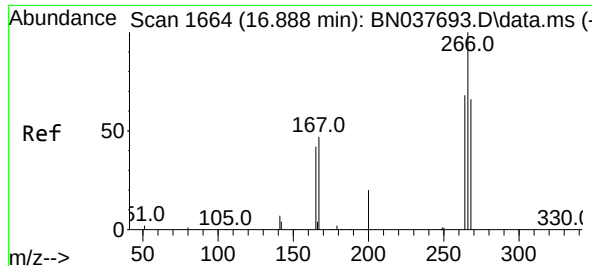
Ion Ratio Lower Upper

200 100

173 24.6 21.4 32.2

215 46.6 39.2 58.8





#24

Pentachlorophenol

Concen: 6.581 ng

RT: 16.888 min Scan# 1664

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

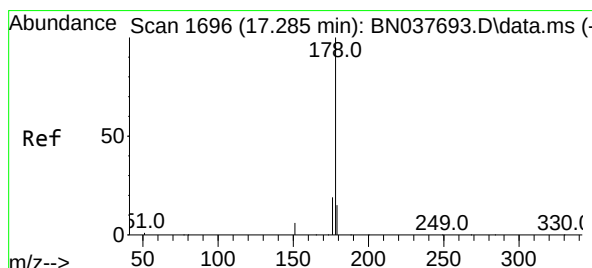
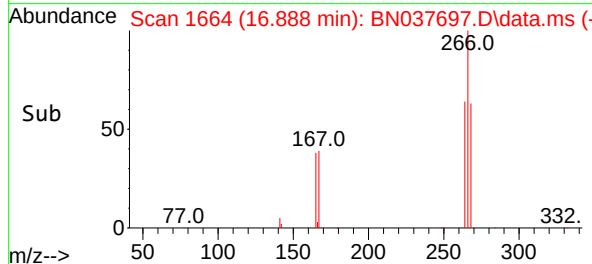
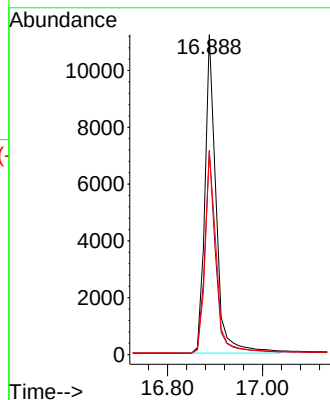
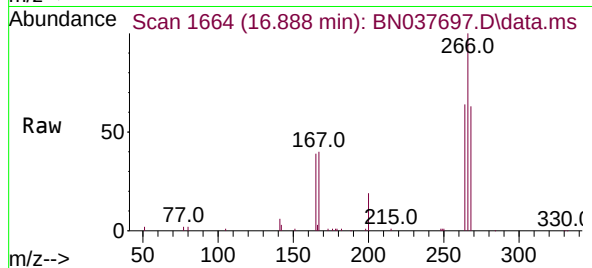
Tgt Ion:266 Resp: 18297

Ion Ratio Lower Upper

266 100

264 62.8 51.6 77.4

268 63.6 53.2 79.8



#25

Phenanthrene

Concen: 5.441 ng

RT: 17.285 min Scan# 1696

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

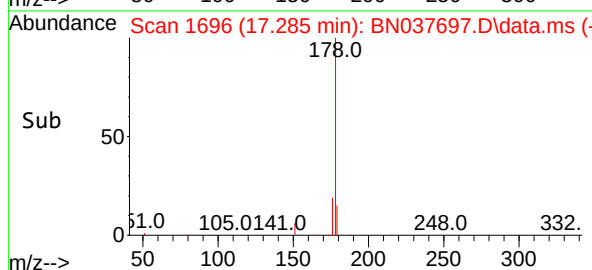
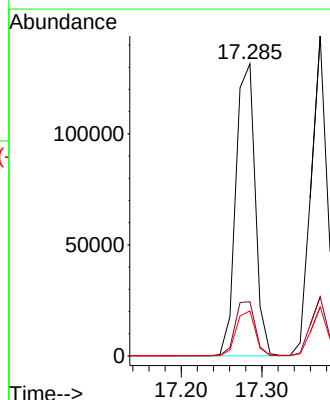
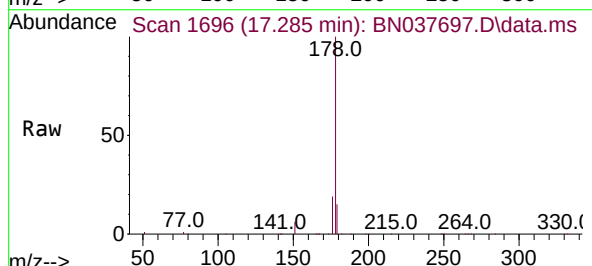
Tgt Ion:178 Resp: 218722

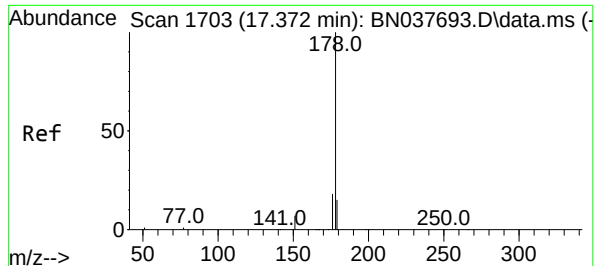
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.1 12.2 18.2

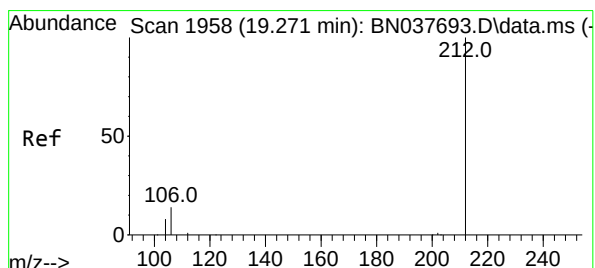
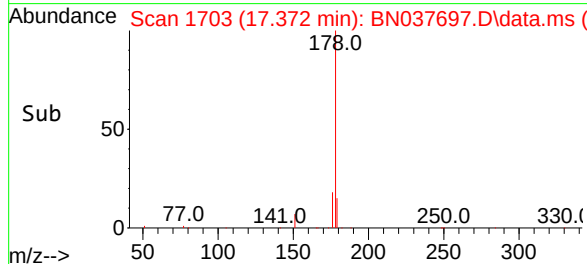
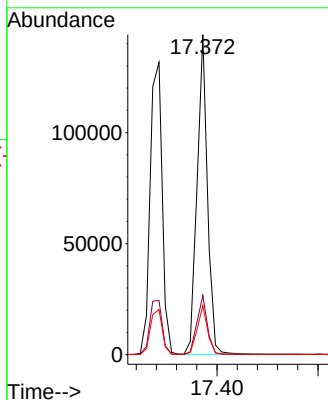
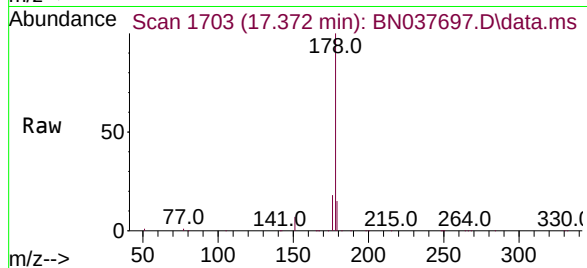




#26
Anthracene
Concen: 5.741 ng
RT: 17.372 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

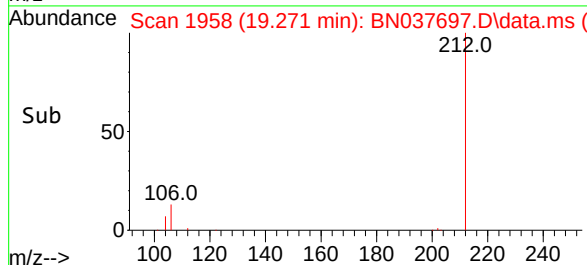
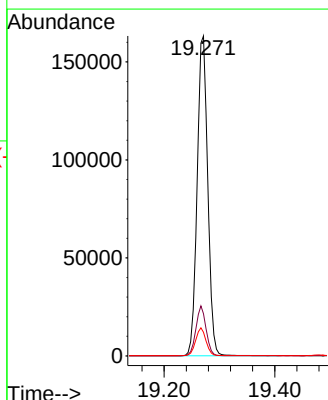
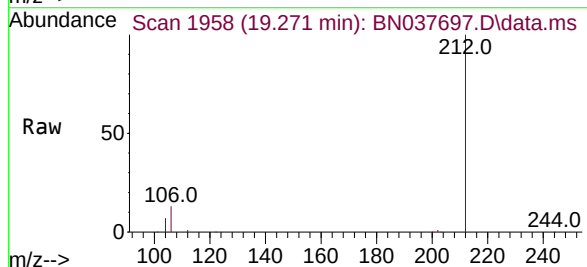
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

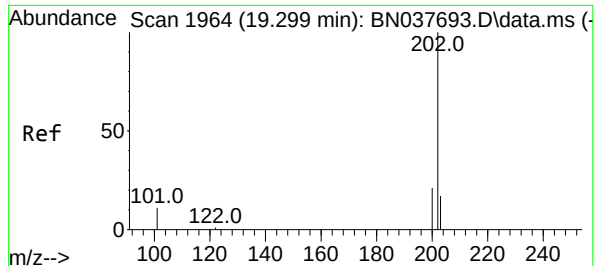
Tgt Ion:178 Resp: 204421
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.4



#27
Fluoranthene-d10
Concen: 6.721 ng
RT: 19.271 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:212 Resp: 215419
Ion Ratio Lower Upper
212 100
106 14.9 12.2 18.2
104 8.5 6.9 10.3

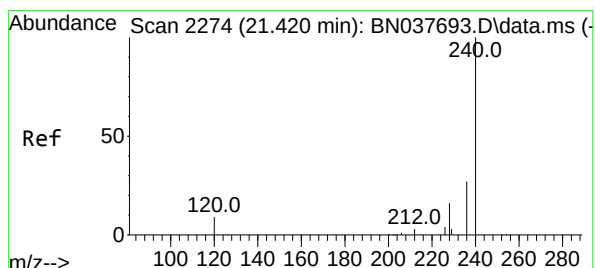
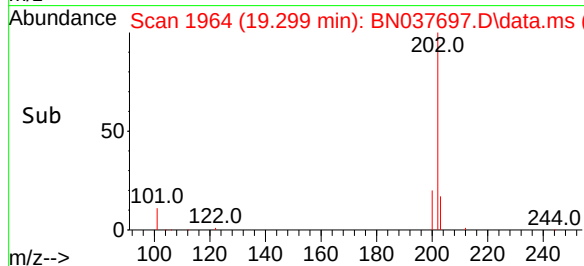
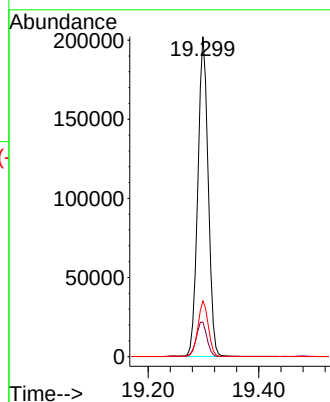
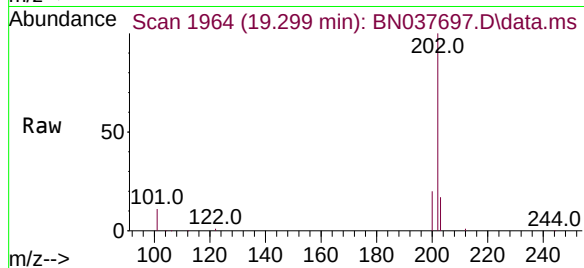




#28
Fluoranthene
Concen: 5.926 ng
RT: 19.299 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

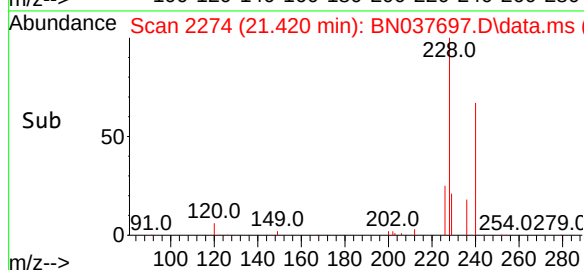
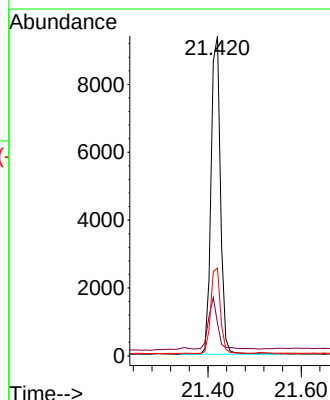
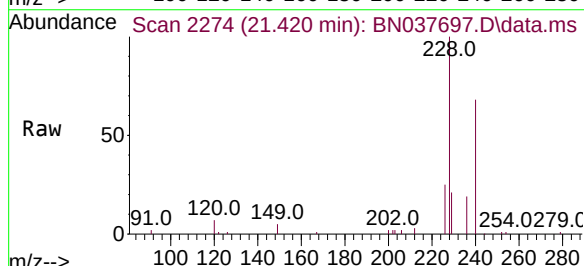
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

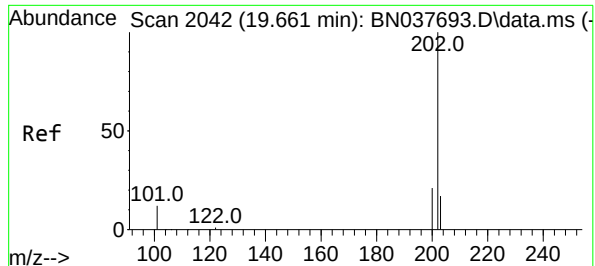
Tgt Ion:202 Resp: 261250
Ion Ratio Lower Upper
202 100
101 11.4 9.3 13.9
203 17.3 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:240 Resp: 13060
Ion Ratio Lower Upper
240 100
120 10.2 9.2 13.8
236 27.4 22.6 33.8





#30

Pyrene

Concen: 5.077 ng

RT: 19.661 min Scan# 2042

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

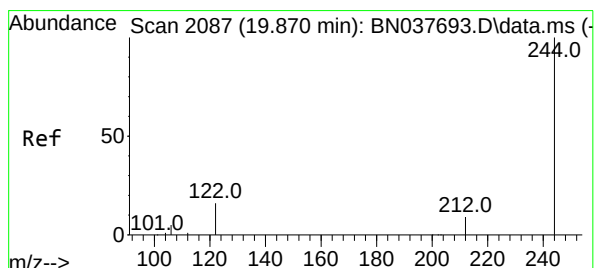
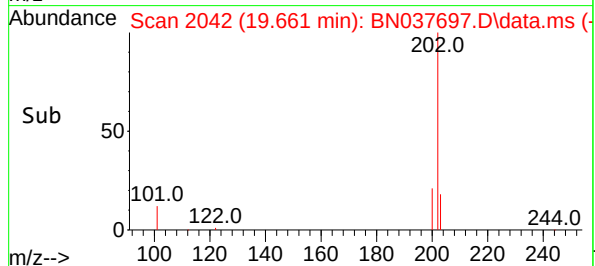
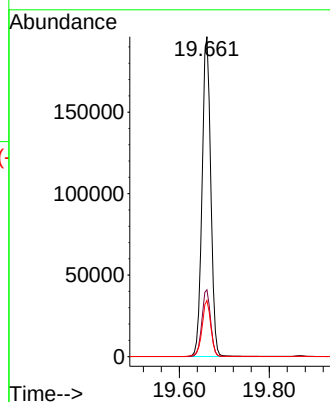
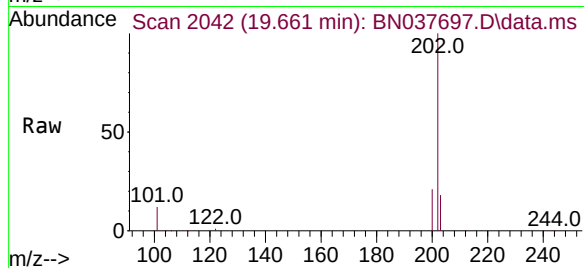
Tgt Ion:202 Resp: 259551

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.3 21.5



#31

Terphenyl-d14

Concen: 5.493 ng

RT: 19.870 min Scan# 2087

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

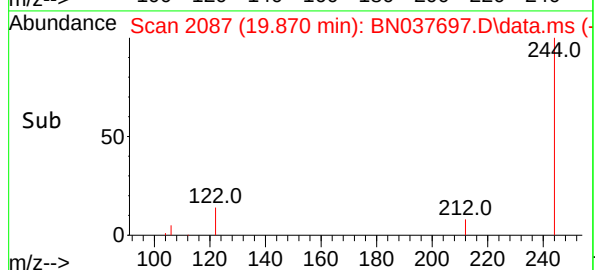
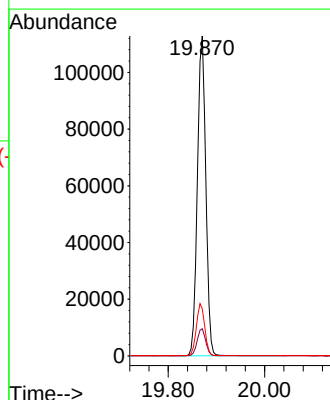
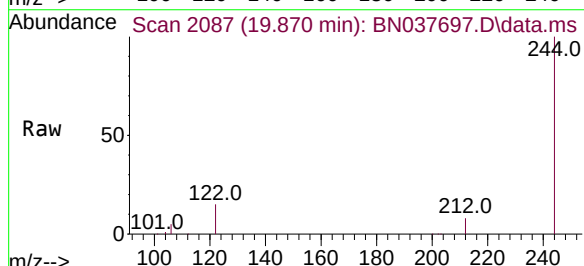
Tgt Ion:244 Resp: 145595

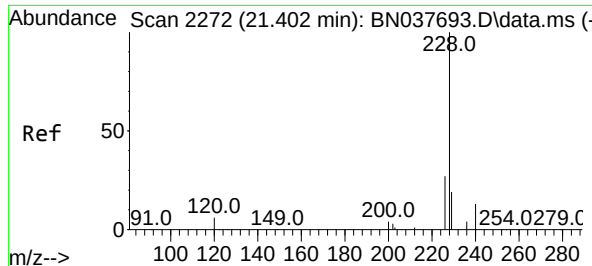
Ion Ratio Lower Upper

244 100

212 8.5 7.5 11.3

122 14.7 13.2 19.8

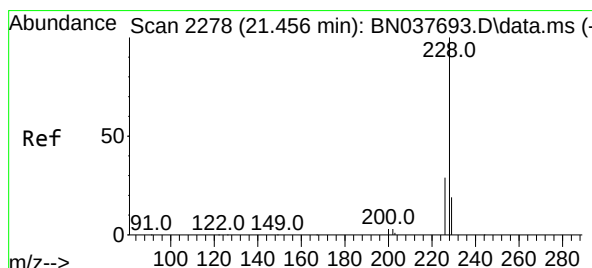
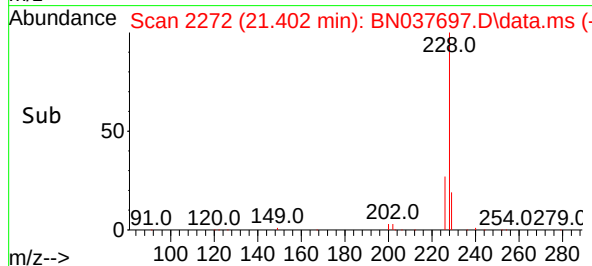
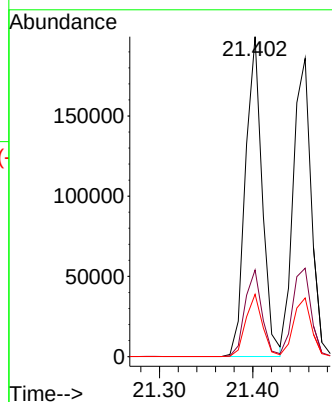
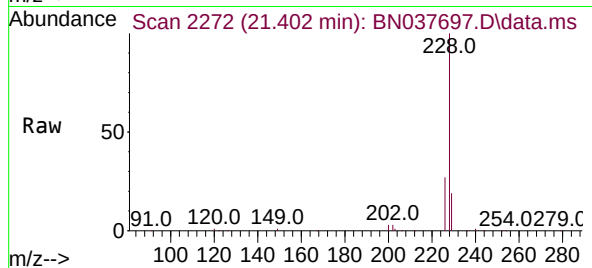




#32
Benzo(a)anthracene
Concen: 5.454 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

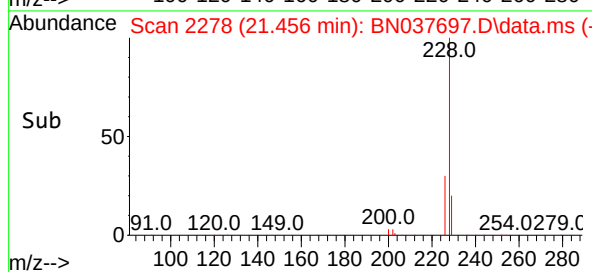
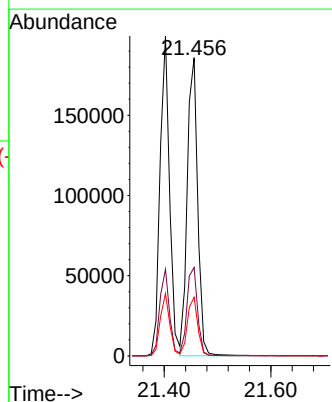
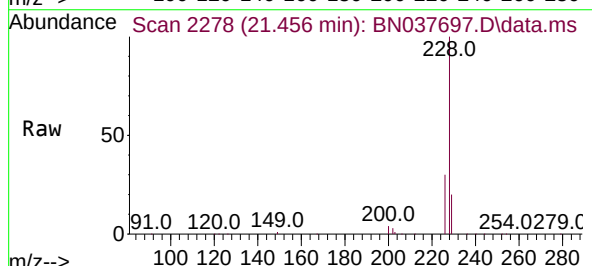
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

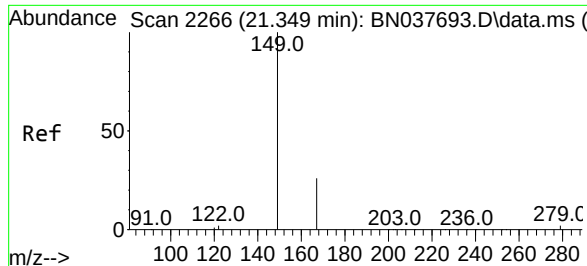
Tgt Ion:228 Resp: 248434
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.2
229 19.5 15.8 23.6



#33
Chrysene
Concen: 5.158 ng
RT: 21.456 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:228 Resp: 251956
Ion Ratio Lower Upper
228 100
226 29.6 23.5 35.3
229 19.7 15.9 23.9

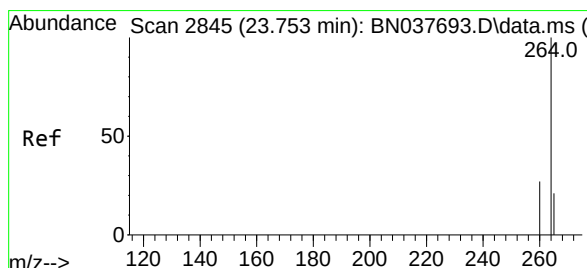
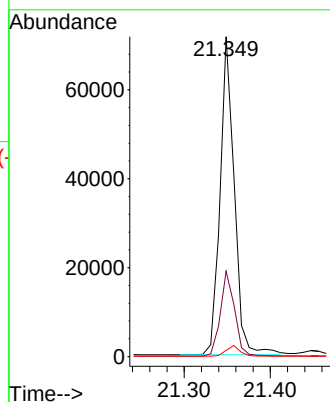
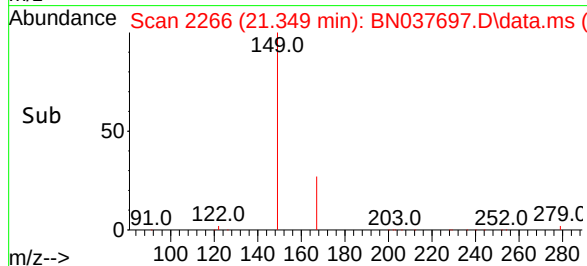
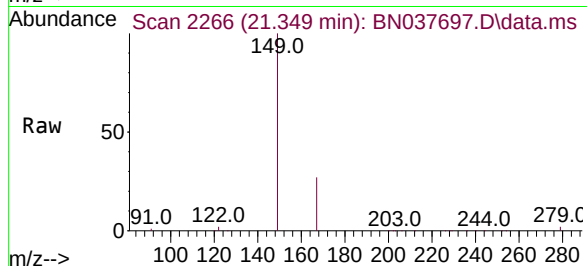




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.091 ng
RT: 21.349 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

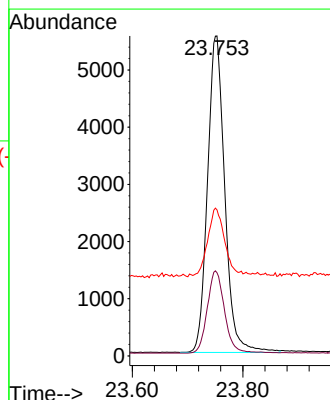
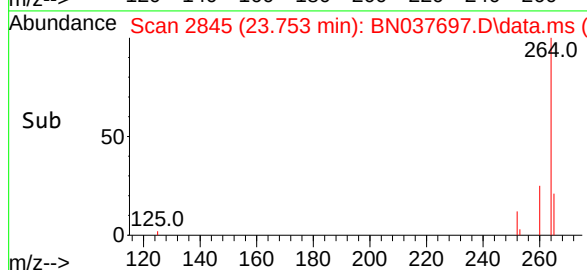
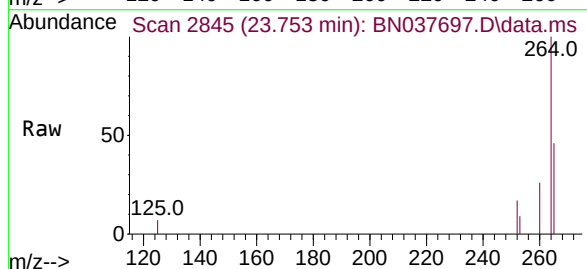
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

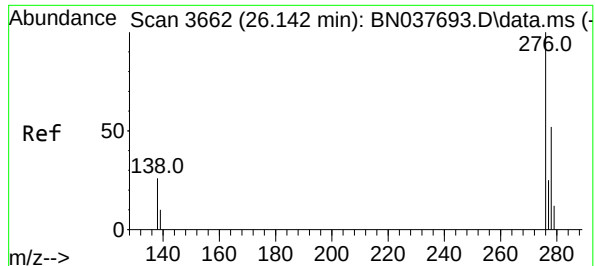
Tgt Ion:149 Resp: 82262
Ion Ratio Lower Upper
149 100
167 26.7 20.8 31.2
279 3.2 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. 0.000 min
Lab File: BN037697.D
Acq: 11 Sep 2025 13:33

Tgt Ion:264 Resp: 12009
Ion Ratio Lower Upper
264 100
260 26.0 21.8 32.8
265 45.6 39.4 59.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 6.024 ng

RT: 26.145 min Scan# 30

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

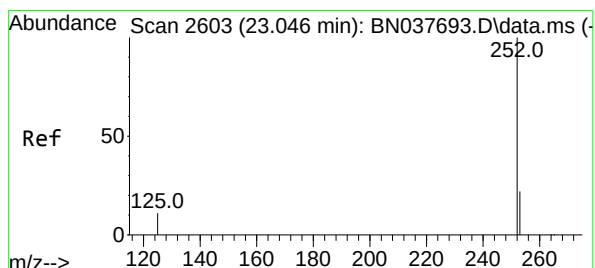
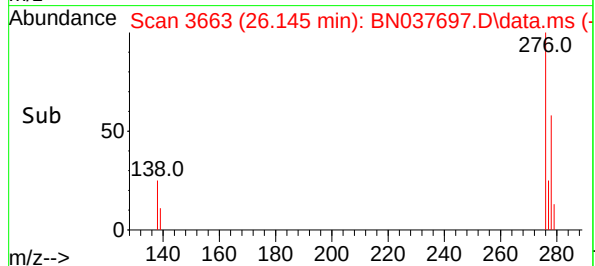
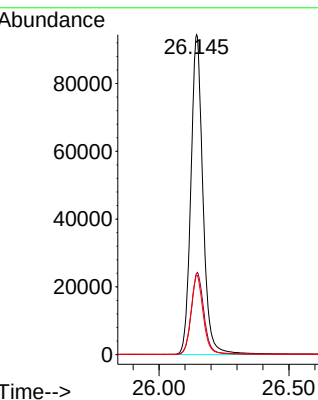
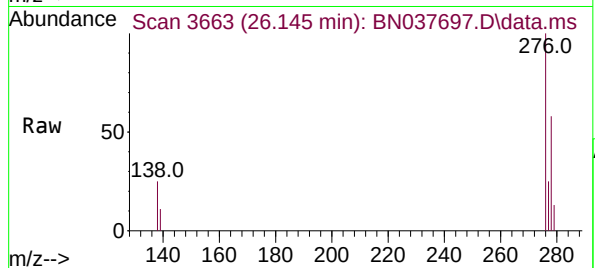
Tgt Ion:276 Resp: 303960

Ion Ratio Lower Upper

276 100

138 26.6 21.9 32.9

277 25.1 20.1 30.1



#37

Benzo(b)fluoranthene

Concen: 5.645 ng

RT: 23.049 min Scan# 2604

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

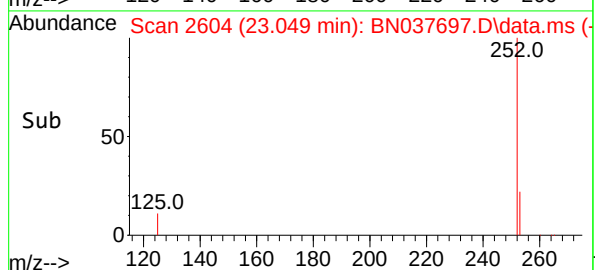
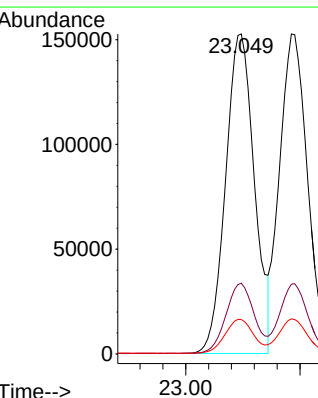
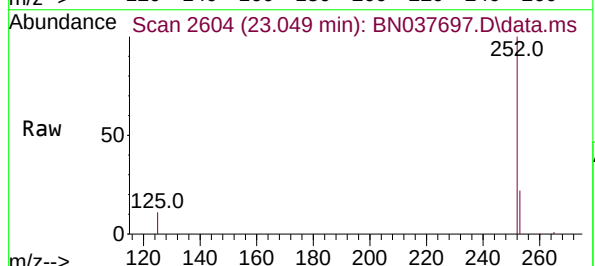
Tgt Ion:252 Resp: 266973

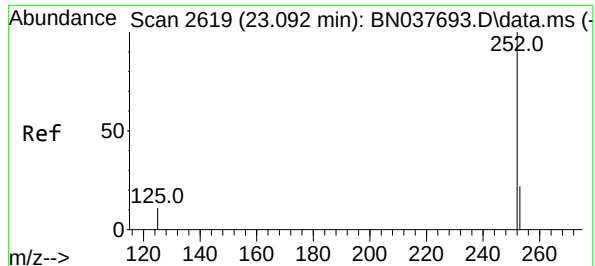
Ion Ratio Lower Upper

252 100

253 22.1 19.4 29.2

125 10.7 11.2 16.8#





#38

Benzo(k)fluoranthene

Concen: 5.466 ng

RT: 23.093 min Scan# 2619

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

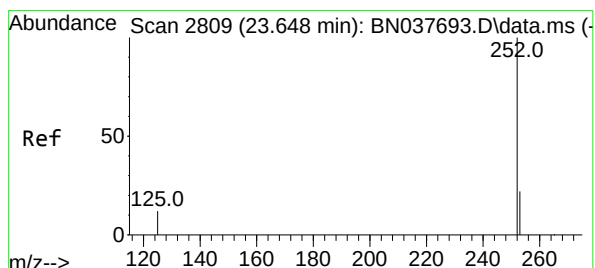
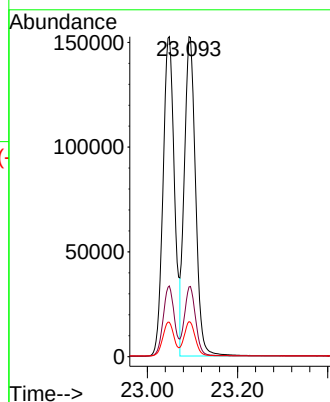
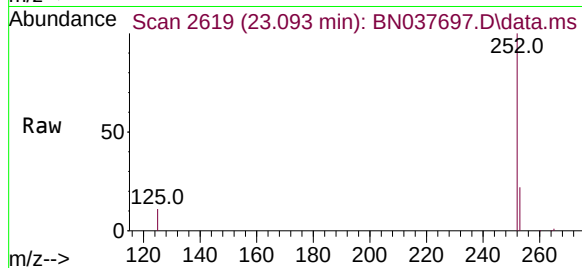
Tgt Ion:252 Resp: 263641

Ion Ratio Lower Upper

252 100

253 21.8 19.4 29.0

125 10.9 11.6 17.4#



#39

Benzo(a)pyrene

Concen: 5.816 ng

RT: 23.651 min Scan# 2810

Delta R.T. 0.003 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

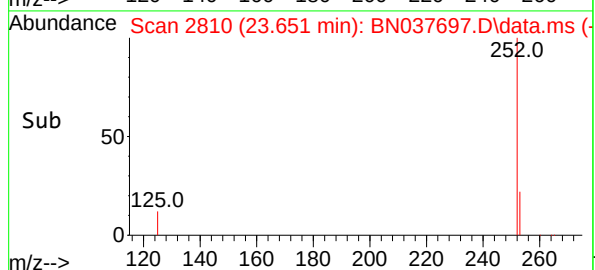
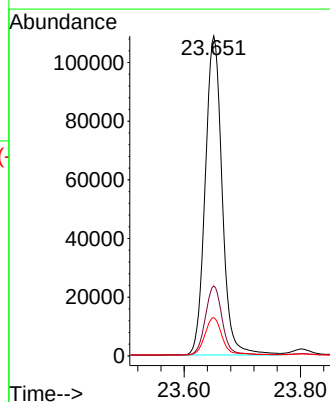
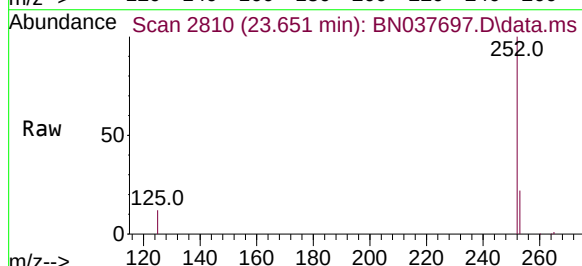
Tgt Ion:252 Resp: 220208

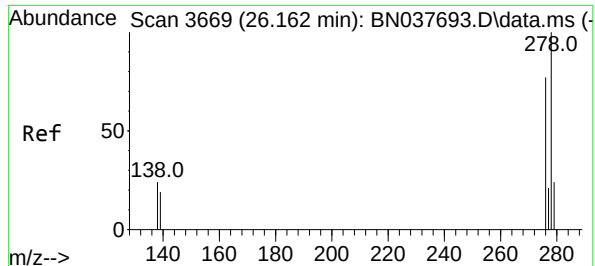
Ion Ratio Lower Upper

252 100

253 21.9 20.8 31.2

125 11.9 13.9 20.9#





#40

Dibenzo(a,h)anthracene

Concen: 6.096 ng

RT: 26.162 min Scan# 3669

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

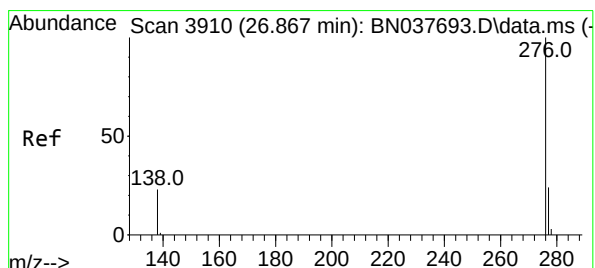
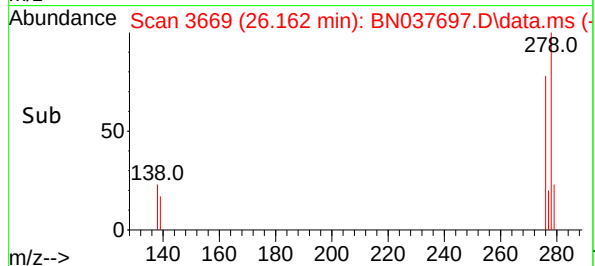
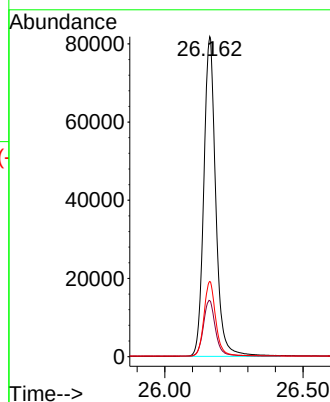
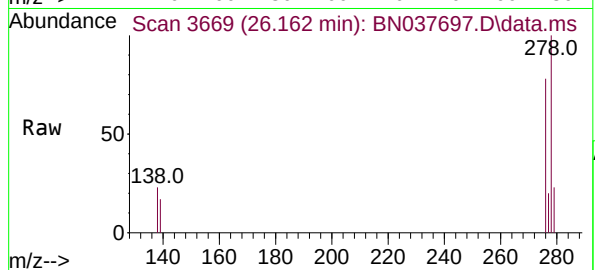
Tgt Ion:278 Resp: 245606

Ion Ratio Lower Upper

278 100

139 17.5 17.8 26.6#

279 23.5 22.0 33.0



#41

Benzo(g,h,i)perylene

Concen: 5.720 ng

RT: 26.867 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN037697.D

Acq: 11 Sep 2025 13:33

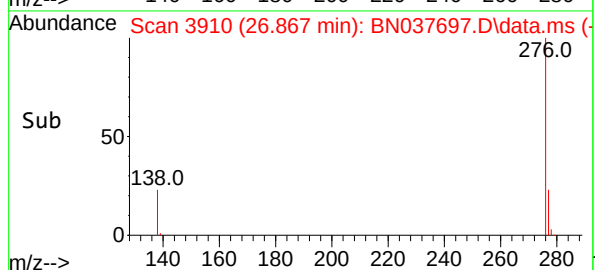
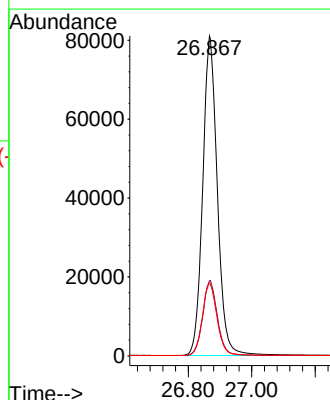
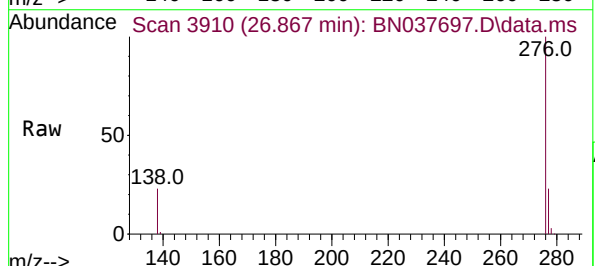
Tgt Ion:276 Resp: 258594

Ion Ratio Lower Upper

276 100

277 23.5 20.6 31.0

138 22.7 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037698.D
 Acq On : 11 Sep 2025 14:09
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN091125

Quant Time: Sep 11 16:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

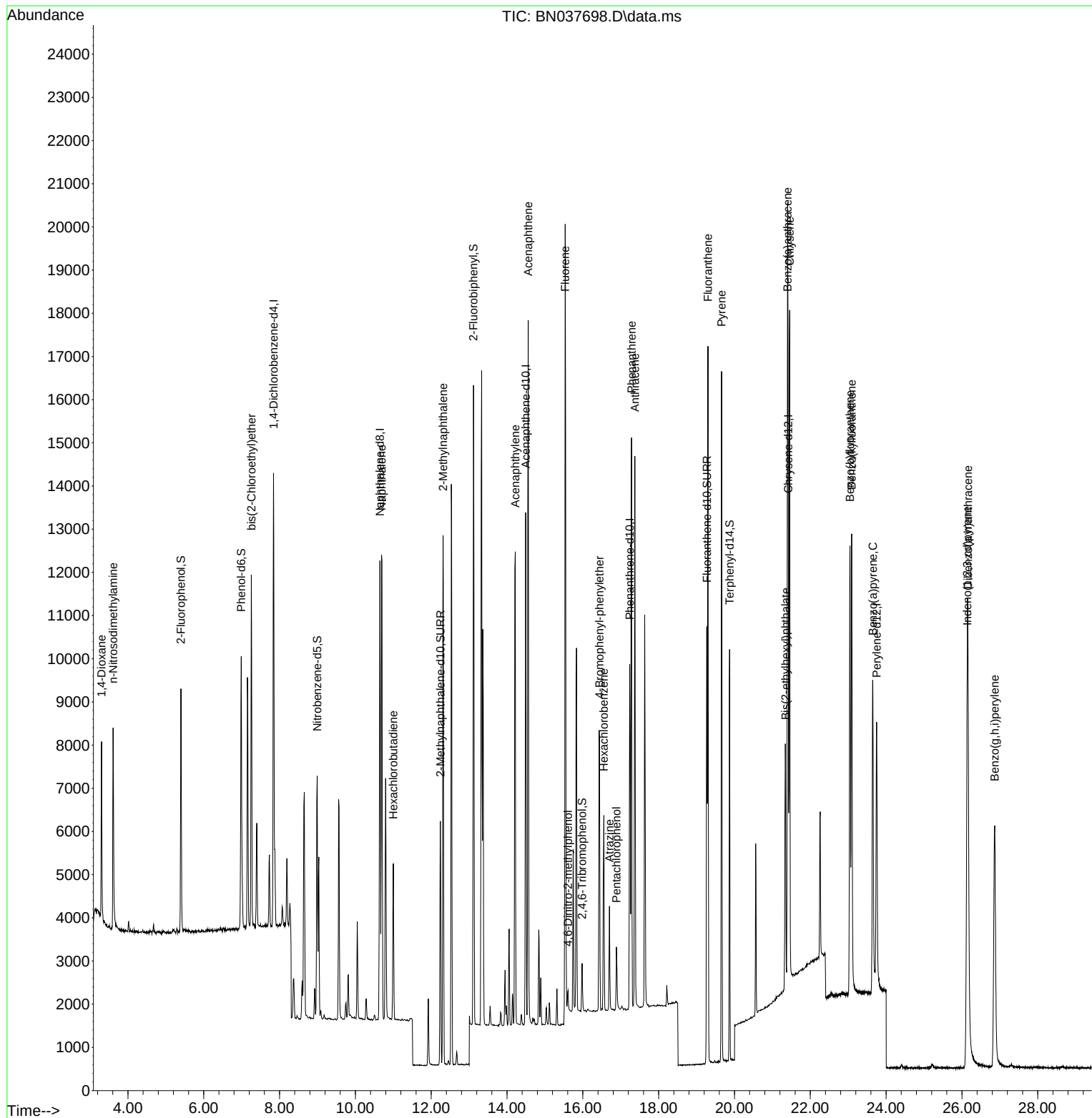
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5029	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	13552	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6371	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	11165	0.400	ng	0.00
29) Chrysene-d12	21.420	240	8931	0.400	ng	0.00
35) Perylene-d12	23.750	264	8751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	4545	0.394	ng	0.00
5) Phenol-d6	6.987	99	5691	0.380	ng	0.00
8) Nitrobenzene-d5	8.992	82	4501	0.454	ng	0.00
11) 2-Methylnaphthalene-d10	12.242	152	7632	0.425	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	629	0.379	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	12687	0.476	ng	0.00
27) Fluoranthene-d10	19.271	212	11138	0.397	ng	0.00
31) Terphenyl-d14	19.870	244	8765	0.484	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	2457	0.469	ng	98
3) n-Nitrosodimethylamine	3.607	42	2924	0.427	ng	# 94
6) bis(2-Chloroethyl)ether	7.255	93	5769	0.431	ng	99
9) Naphthalene	10.690	128	15153	0.409	ng	100
10) Hexachlorobutadiene	11.000	225	2814	0.420	ng	# 99
12) 2-Methylnaphthalene	12.313	142	8593	0.375	ng	100
16) Acenaphthylene	14.216	152	12785	0.438	ng	100
17) Acenaphthene	14.558	154	7838	0.397	ng	99
18) Fluorene	15.535	166	9460	0.395	ng	98
20) 4,6-Dinitro-2-methylph...	15.609	198	392	0.379	ng	99
21) 4-Bromophenyl-phenylether	16.441	248	2975	0.409	ng	97
22) Hexachlorobenzene	16.552	284	3569	0.426	ng	99
23) Atrazine	16.701	200	1828	0.395	ng	99
24) Pentachlorophenol	16.888	266	785	0.323	ng	97
25) Phenanthrene	17.285	178	14262	0.406	ng	99
26) Anthracene	17.372	178	12642	0.406	ng	99
28) Fluoranthene	19.299	202	14471	0.375	ng	100
30) Pyrene	19.661	202	14323	0.410	ng	100
32) Benzo(a)anthracene	21.402	228	12803	0.411	ng	99
33) Chrysene	21.456	228	13963	0.418	ng	99
34) Bis(2-ethylhexyl)phtha...	21.348	149	3245	0.351	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.139	276	15430	0.420	ng	100
37) Benzo(b)fluoranthene	23.045	252	13718	0.398	ng	100
38) Benzo(k)fluoranthene	23.092	252	14465	0.412	ng	98
39) Benzo(a)pyrene	23.648	252	11950	0.433	ng	100
40) Dibenzo(a,h)anthracene	26.159	278	12290	0.419	ng	99
41) Benzo(g,h,i)perylene	26.864	276	13095	0.398	ng	99

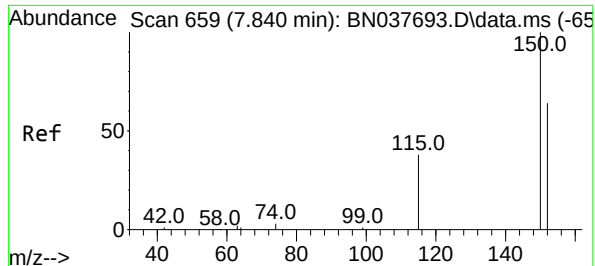
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.840 min Scan# 61

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

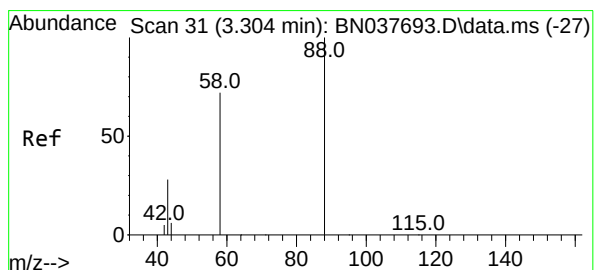
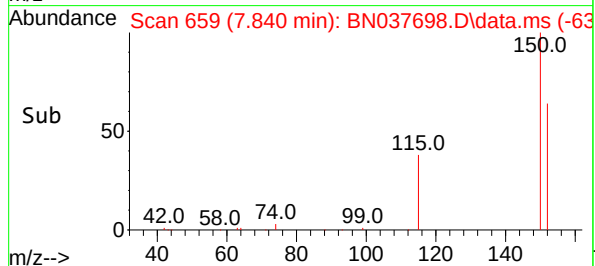
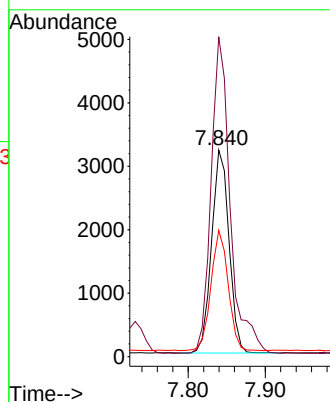
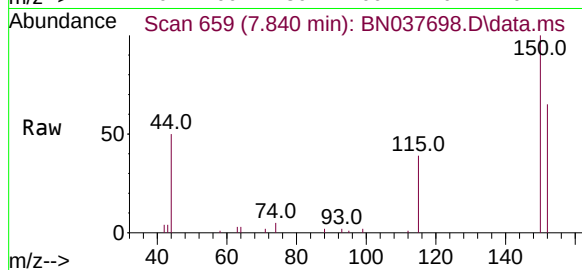
Tgt Ion:152 Resp: 5029

Ion Ratio Lower Upper

152 100

150 154.8 124.5 186.7

115 61.0 49.2 73.8



#2

1,4-Dioxane

Concen: 0.469 ng

RT: 3.304 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

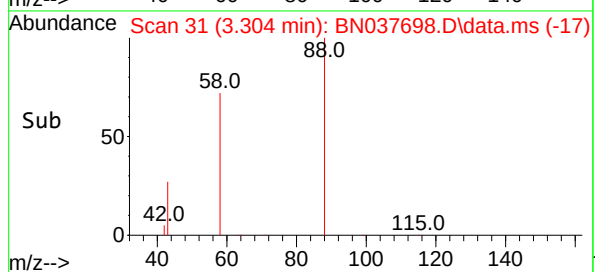
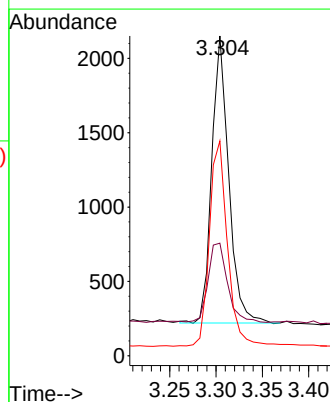
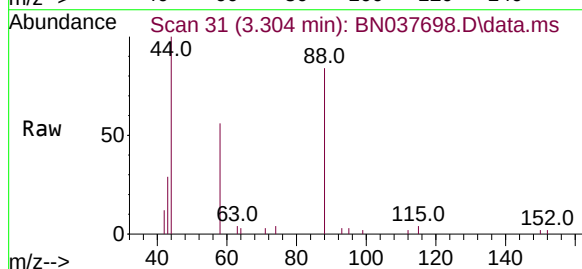
Tgt Ion: 88 Resp: 2457

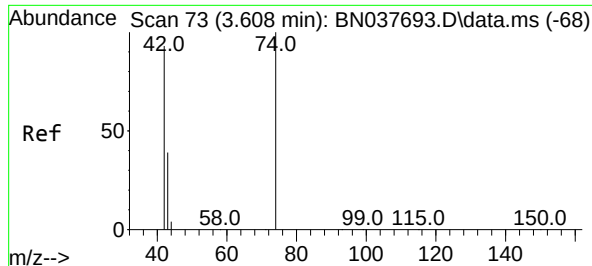
Ion Ratio Lower Upper

88 100

43 31.5 26.8 40.2

58 76.6 61.9 92.9

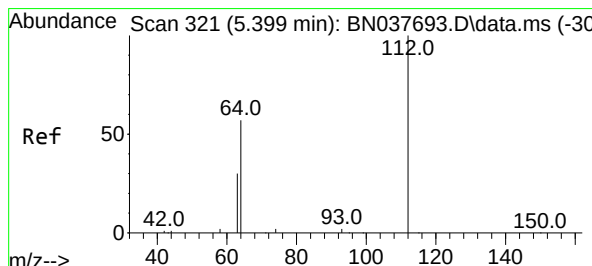
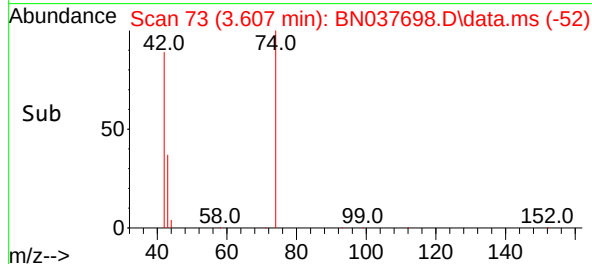
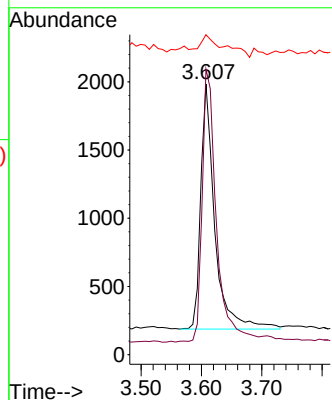
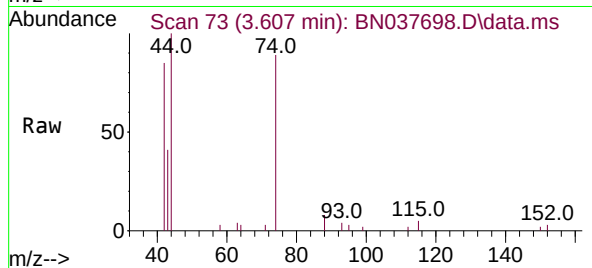




#3
n-Nitrosodimethylamine
Concen: 0.427 ng
RT: 3.607 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

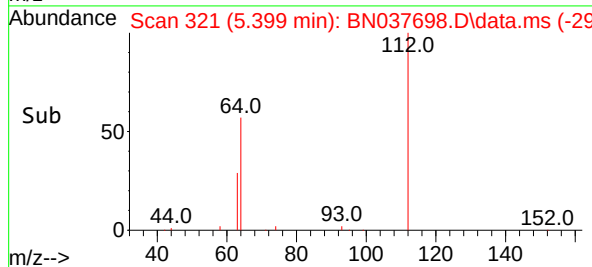
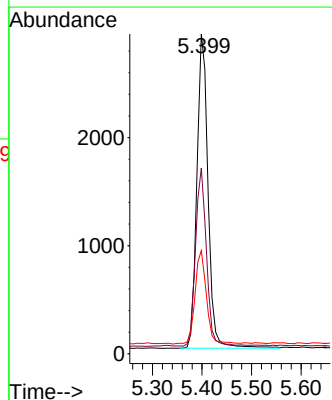
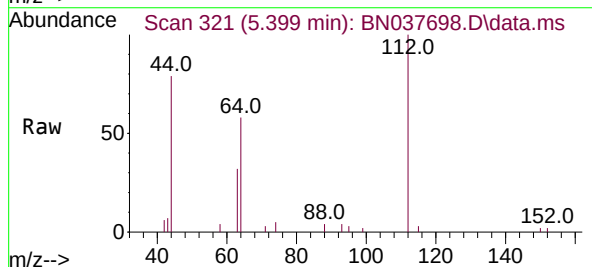
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

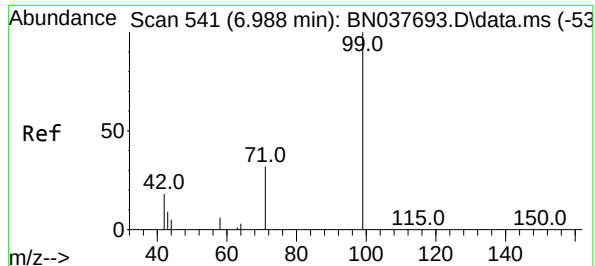
Tgt Ion: 42 Resp: 2924
Ion Ratio Lower Upper
42 100
74 112.9 86.0 129.0
44 15.6 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 112 Resp: 4545
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 30.2 24.7 37.1

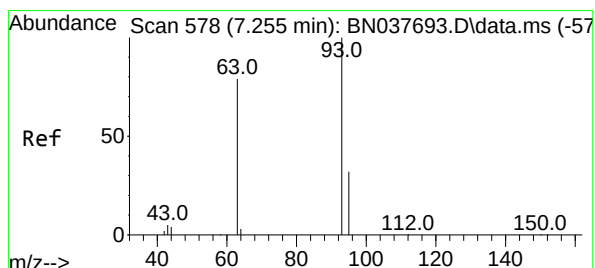
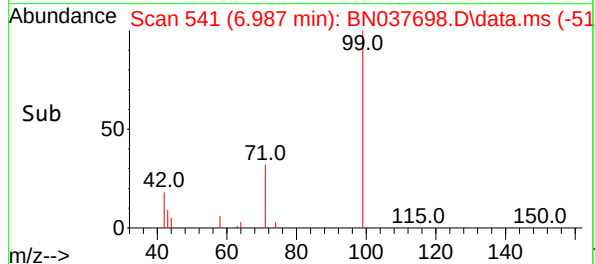
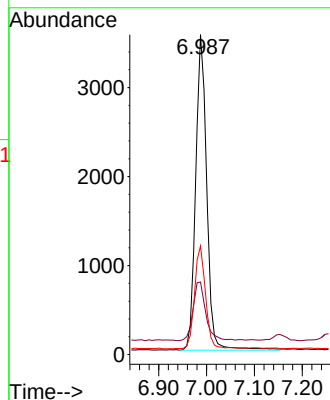
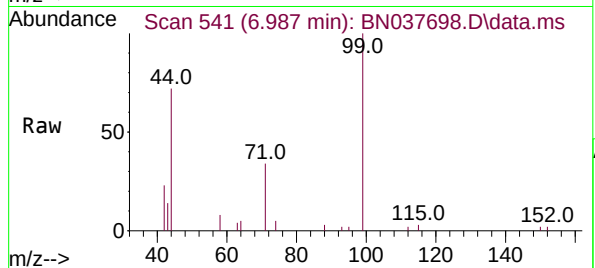




#5
Phenol-d6
Concen: 0.380 ng
RT: 6.987 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

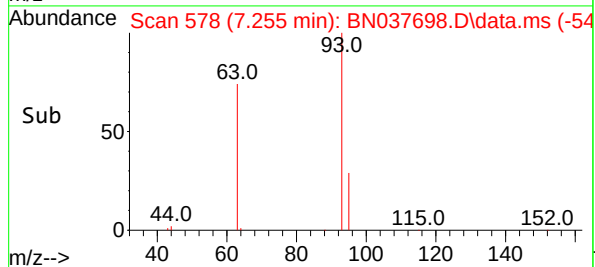
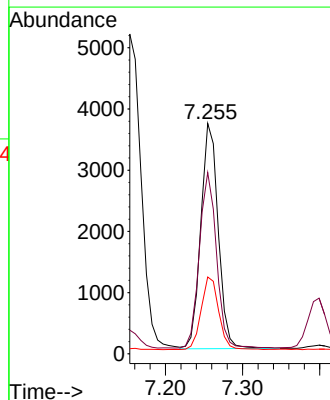
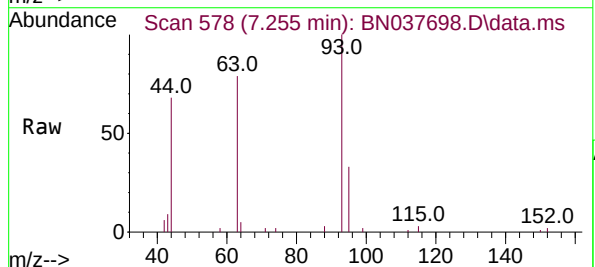
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

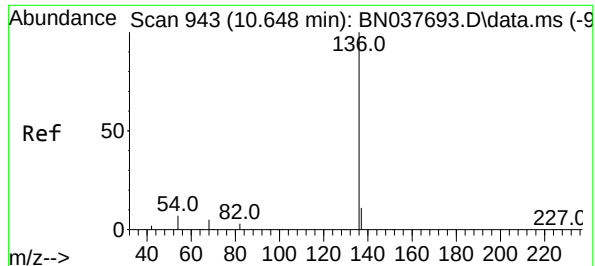
Tgt Ion: 99 Resp: 5691
Ion Ratio Lower Upper
99 100
42 21.3 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.431 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion: 93 Resp: 5769
Ion Ratio Lower Upper
93 100
63 76.7 60.6 90.8
95 32.7 26.0 39.0

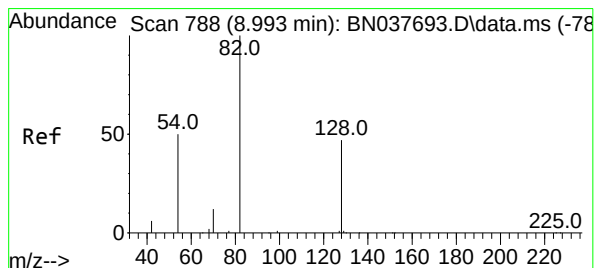
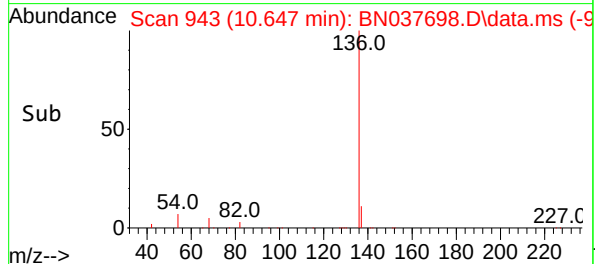
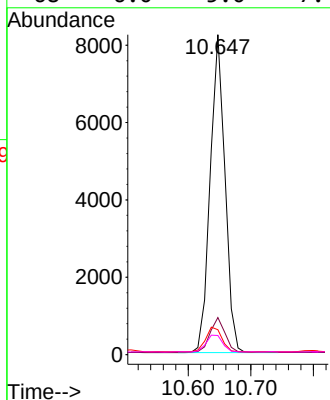
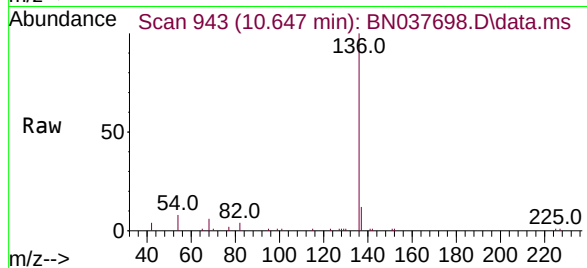




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

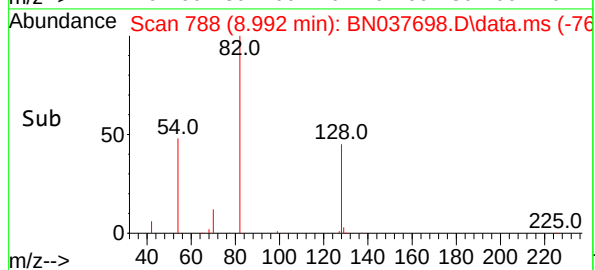
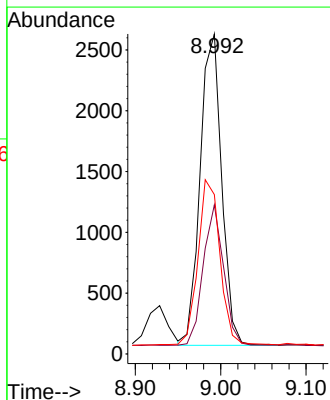
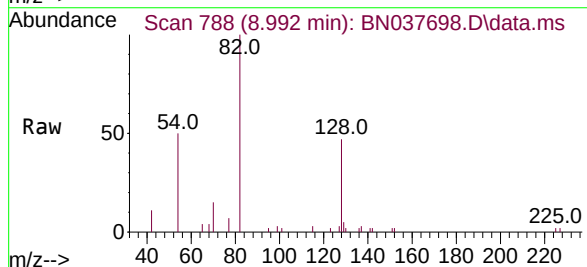
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

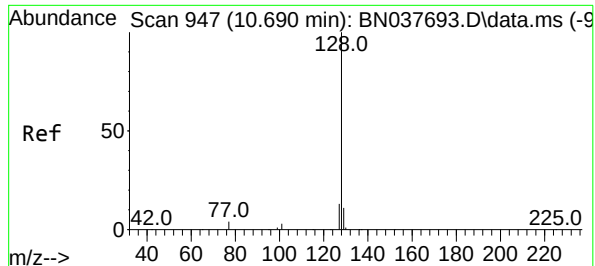
Tgt Ion:	136	Resp:	13552
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	7.8	6.3	9.5
68	6.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.454 ng
RT: 8.992 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:	82	Resp:	4501
Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.3	57.5
54	49.8	41.4	62.2

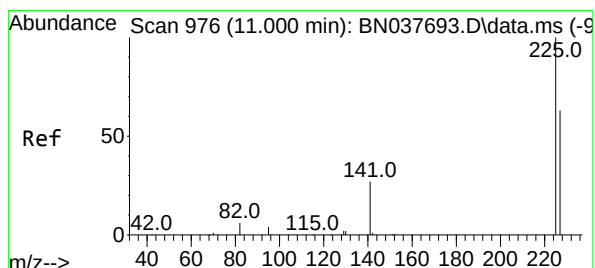
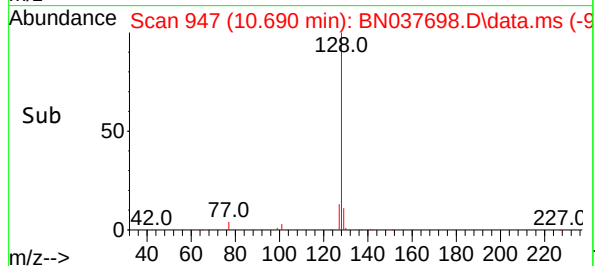
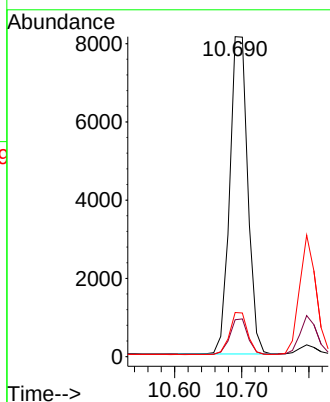
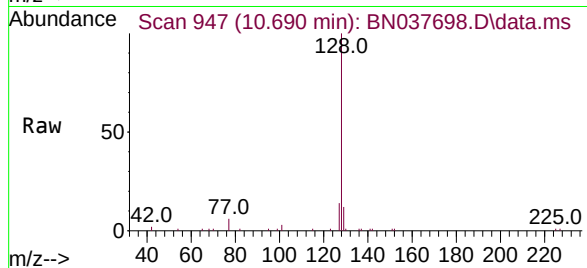




#9
Naphthalene
Concen: 0.409 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

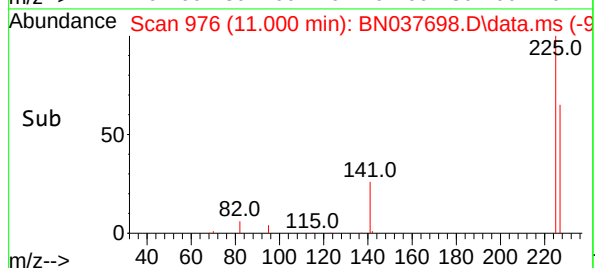
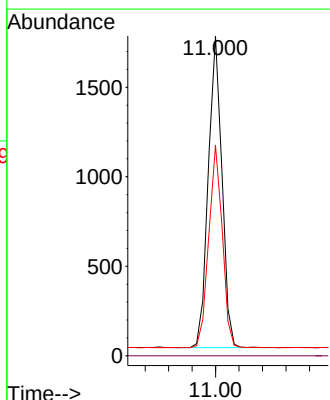
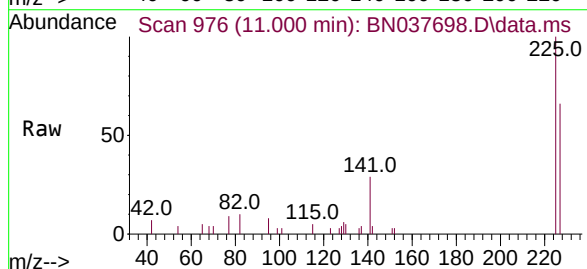
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

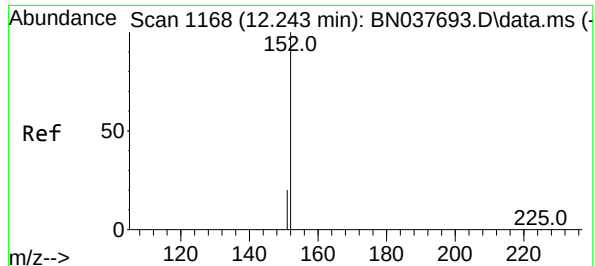
Tgt Ion:128 Resp: 15153
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.8 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:225 Resp: 2814
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 50.9 76.3

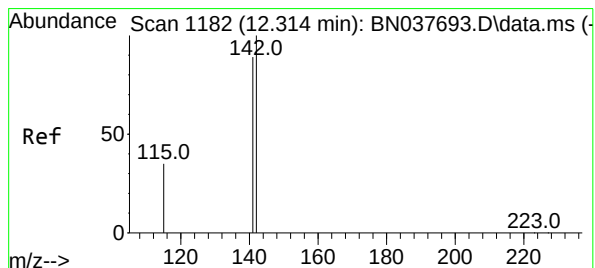
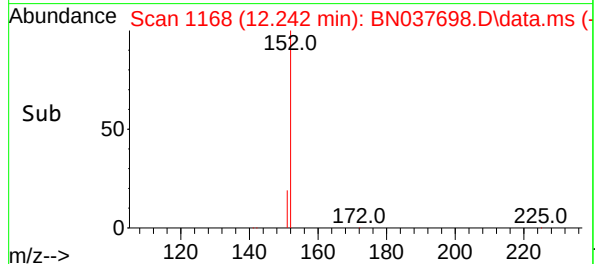
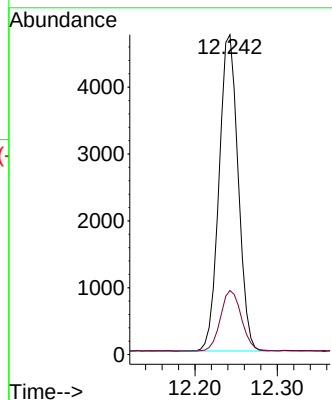
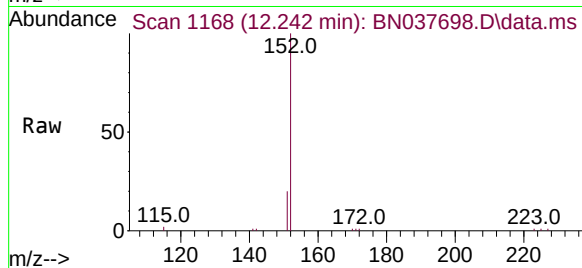




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.242 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

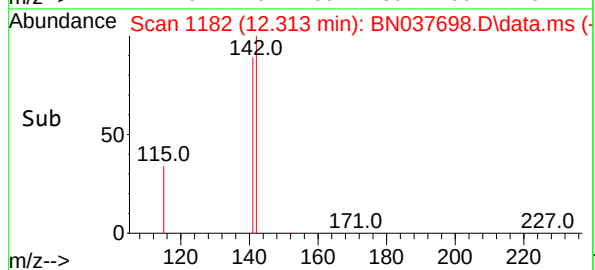
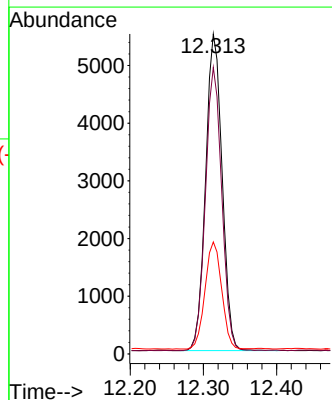
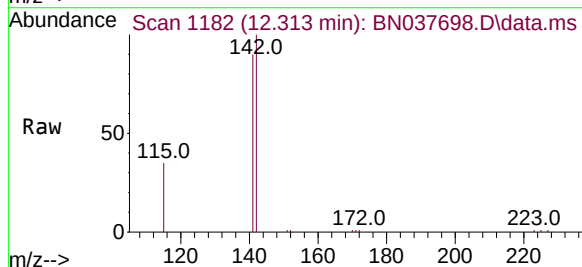
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

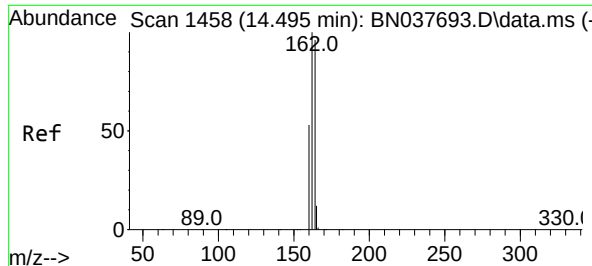
Tgt Ion:152 Resp: 7632
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.313 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:142 Resp: 8593
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 35.0 28.6 43.0

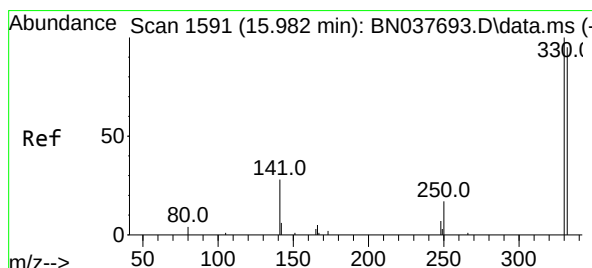
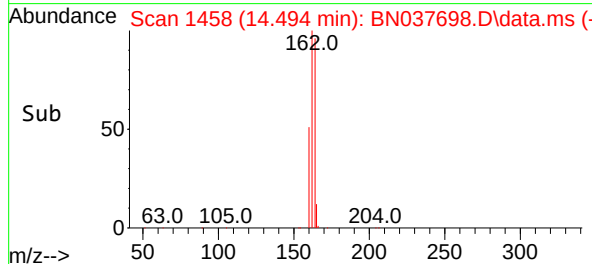
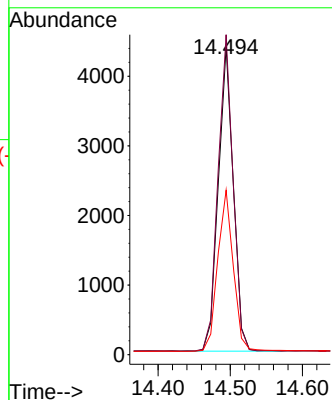
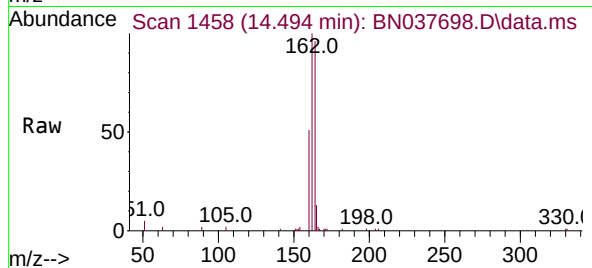




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

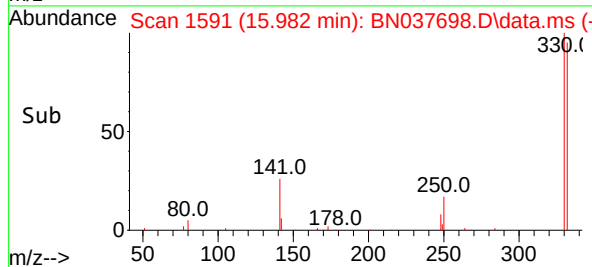
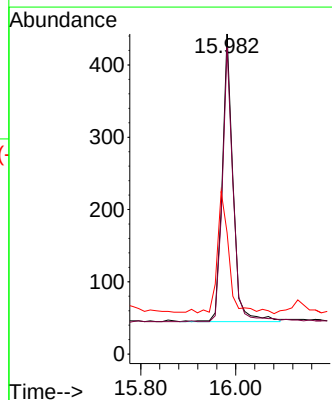
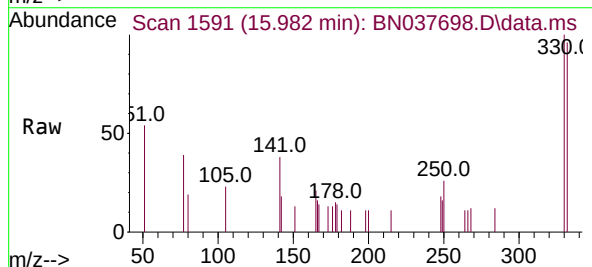
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

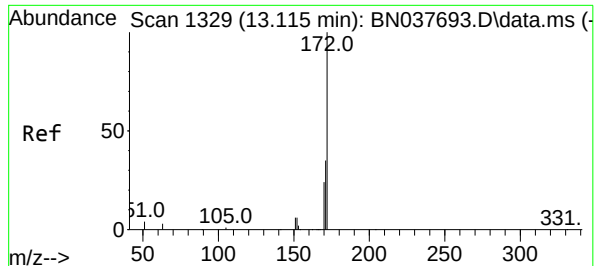
Tgt Ion:164 Resp: 6371
Ion Ratio Lower Upper
164 100
162 103.9 83.1 124.7
160 53.4 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:330 Resp: 629
Ion Ratio Lower Upper
330 100
332 94.8 75.3 112.9
141 45.9 35.0 52.4





#15

2-Fluorobiphenyl

Concen: 0.476 ng

RT: 13.115 min Scan# 1329

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

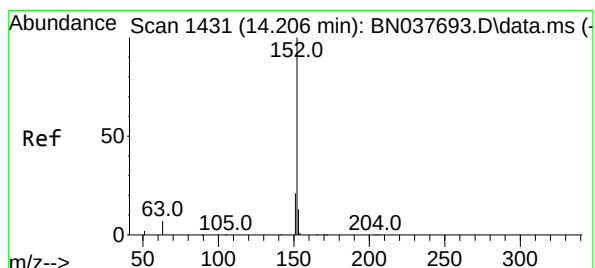
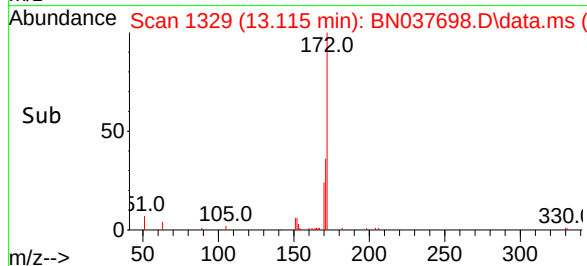
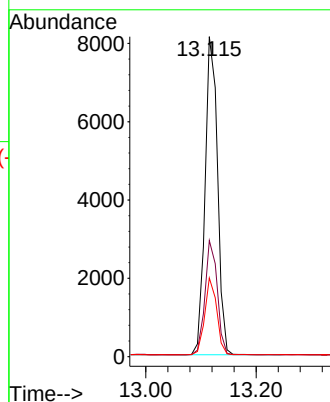
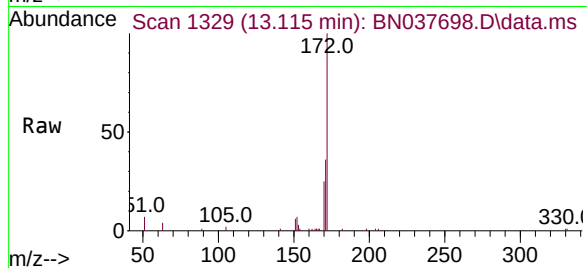
Tgt Ion:172 Resp: 12687

Ion Ratio Lower Upper

172 100

171 36.3 28.6 43.0

170 24.6 19.8 29.8



#16

Acenaphthylene

Concen: 0.438 ng

RT: 14.216 min Scan# 1432

Delta R.T. 0.010 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

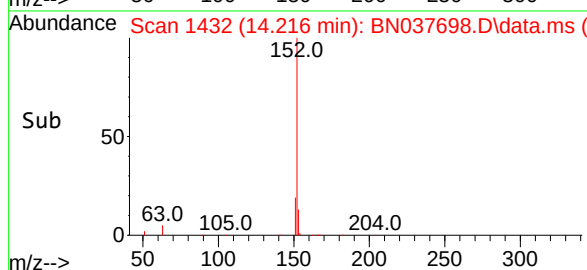
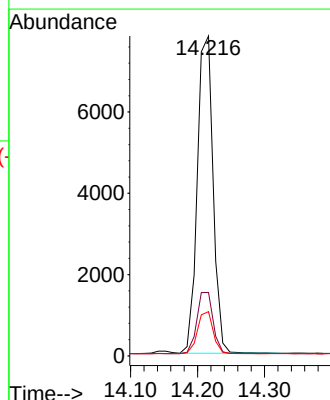
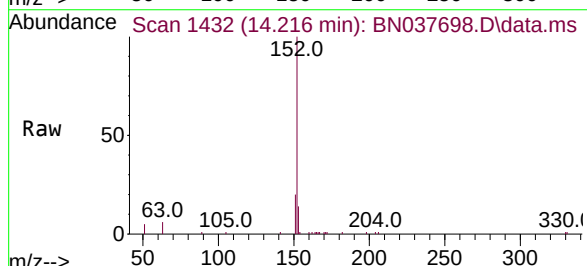
Tgt Ion:152 Resp: 12785

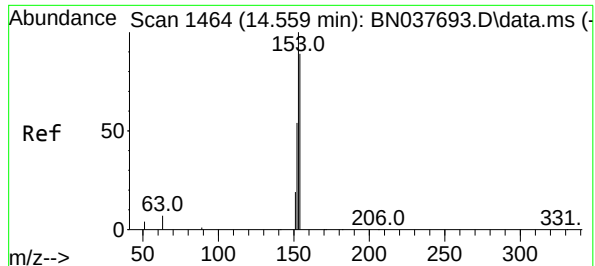
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

153 13.2 10.4 15.6

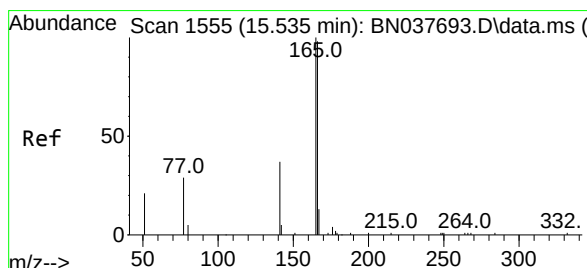
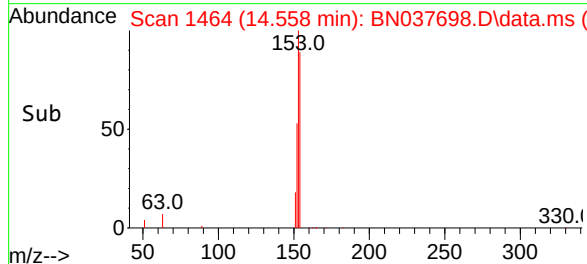
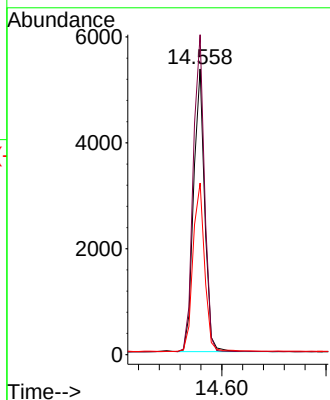
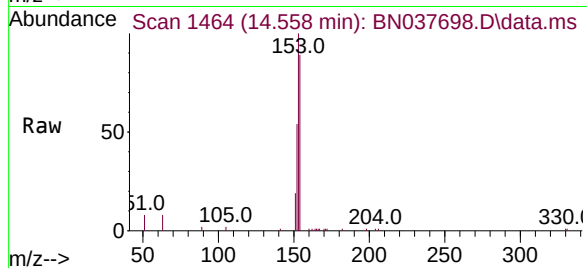




#17
Acenaphthene
Concen: 0.397 ng
RT: 14.558 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

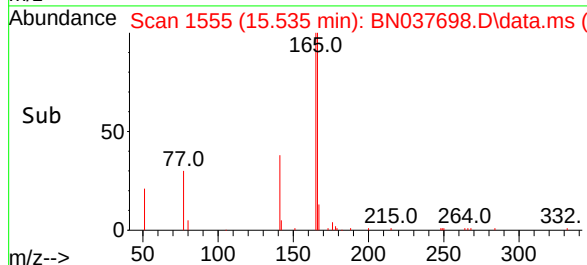
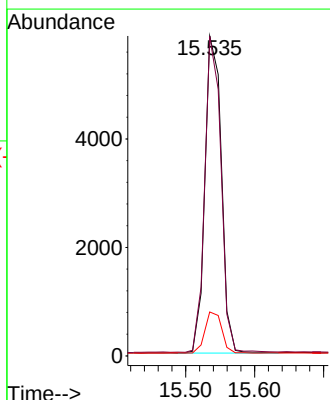
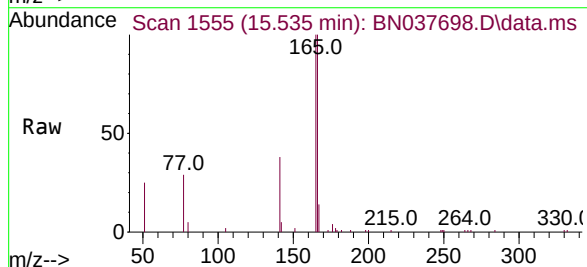
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

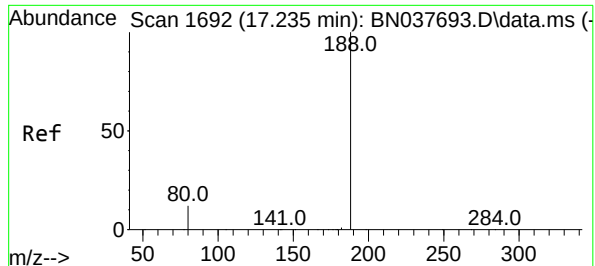
Tgt Ion:154 Resp: 7838
Ion Ratio Lower Upper
154 100
153 114.1 89.8 134.8
152 63.0 50.2 75.2



#18
Fluorene
Concen: 0.395 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion:166 Resp: 9460
Ion Ratio Lower Upper
166 100
165 97.0 79.6 119.4
167 12.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

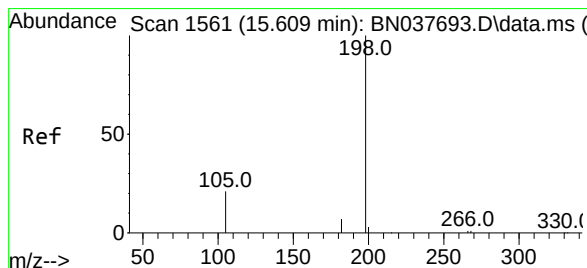
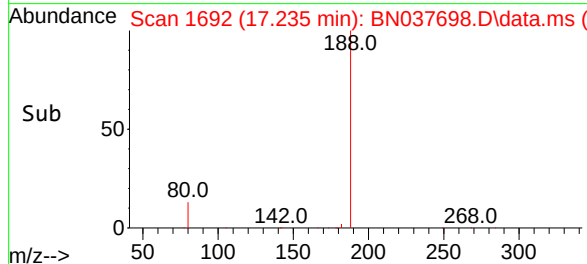
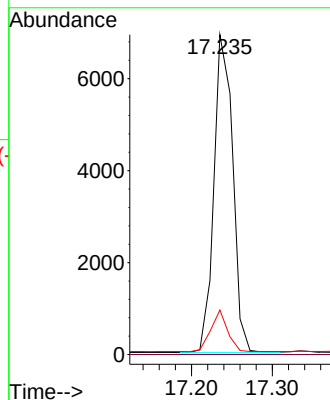
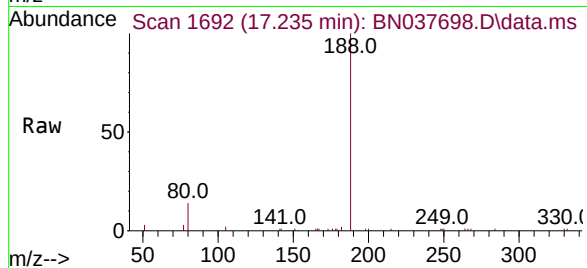
Tgt Ion:188 Resp: 11165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.379 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

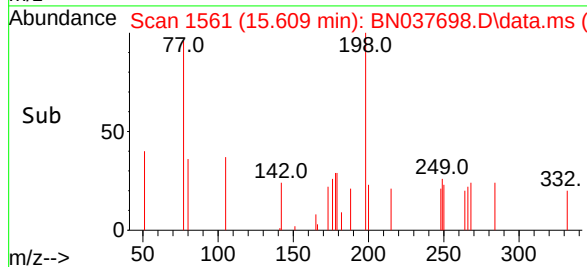
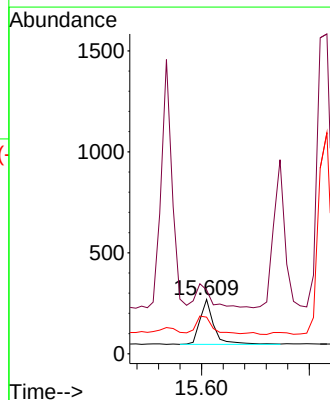
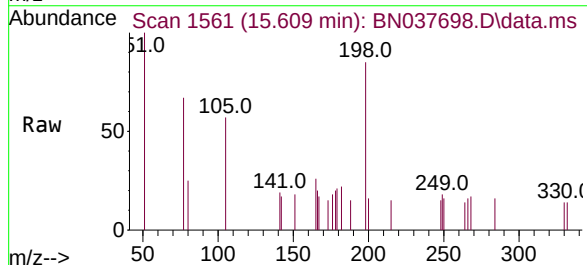
Tgt Ion:198 Resp: 392

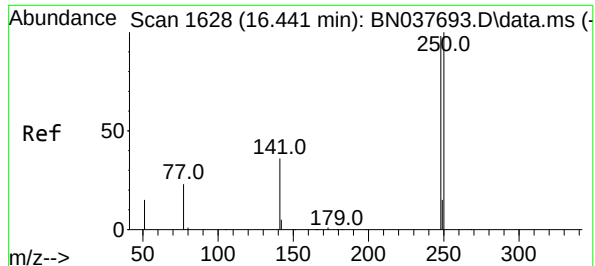
Ion Ratio Lower Upper

198 100

51 117.5 95.1 142.7

105 67.3 53.8 80.6

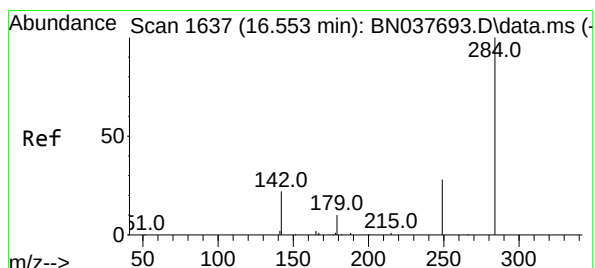
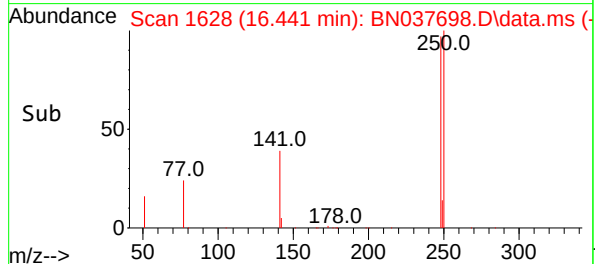
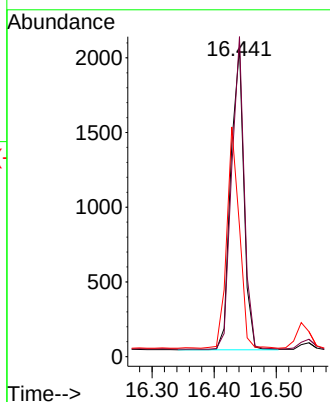
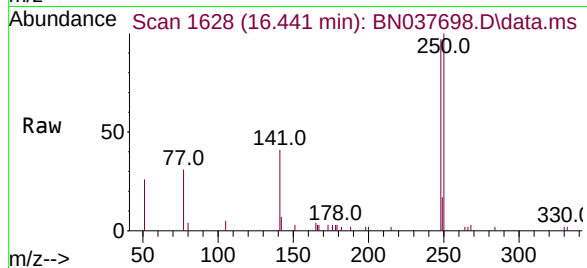




#21
4-Bromophenyl-phenylether
Concen: 0.409 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

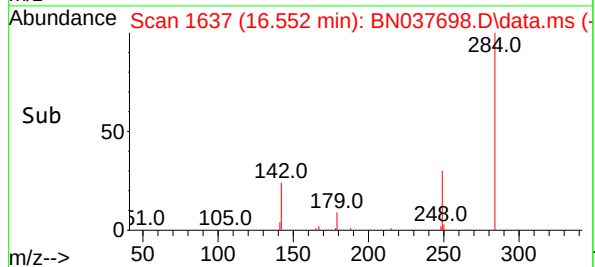
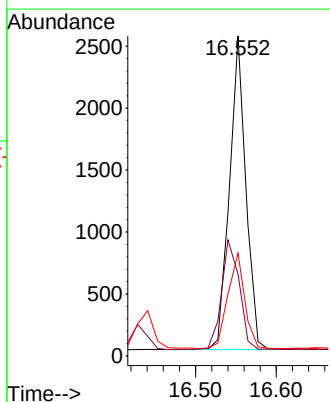
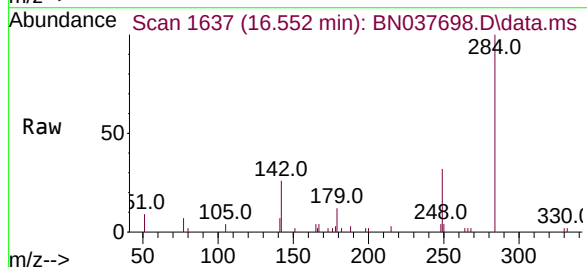
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

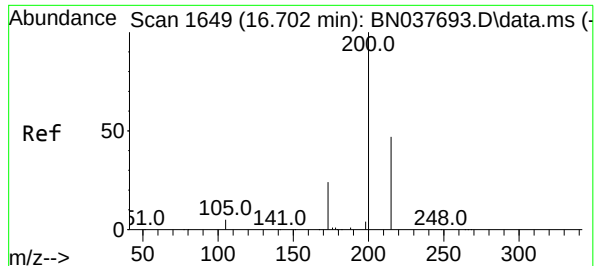
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.5	81.5	122.3
141	42.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.552 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.9	46.3
249	31.2	24.8	37.2





#23

Atrazine

Concen: 0.395 ng

RT: 16.701 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

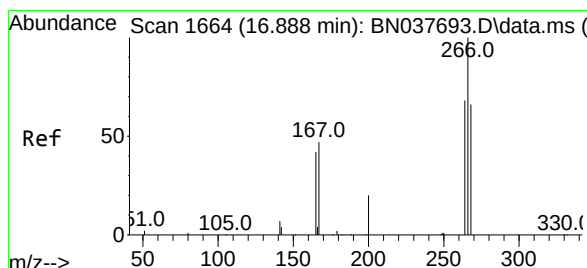
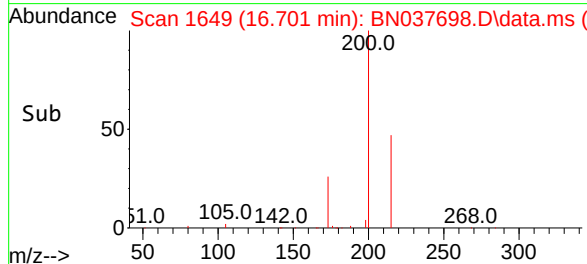
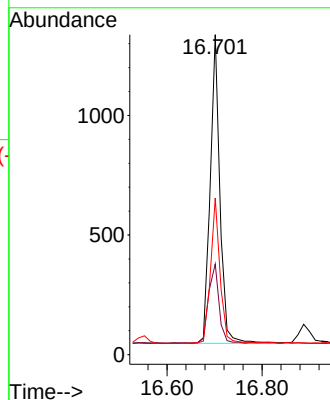
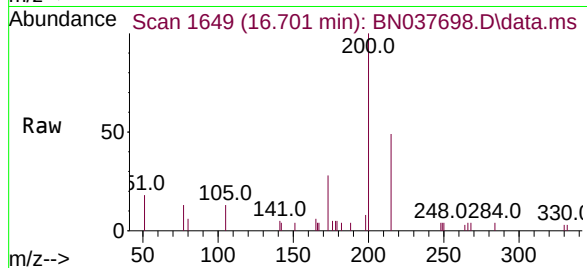
Tgt Ion:200 Resp: 1828

Ion Ratio Lower Upper

200 100

173 28.3 21.4 32.2

215 49.0 39.2 58.8



#24

Pentachlorophenol

Concen: 0.323 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

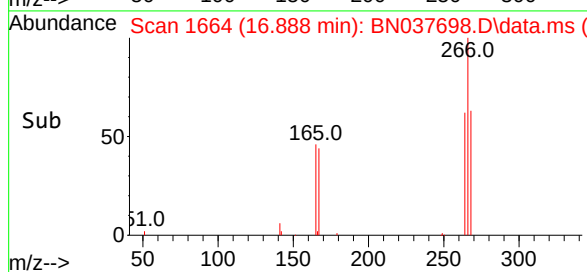
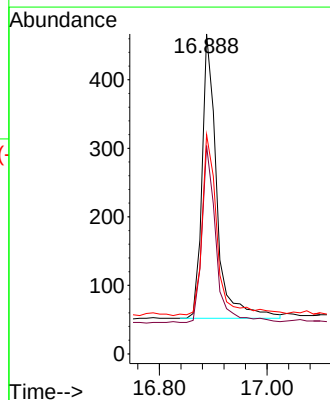
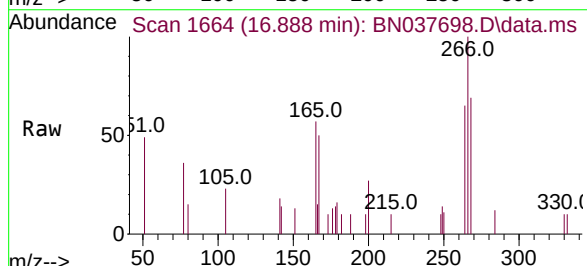
Tgt Ion:266 Resp: 785

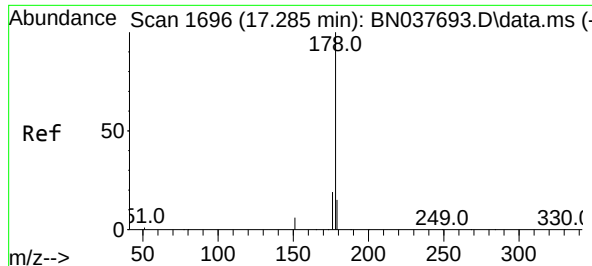
Ion Ratio Lower Upper

266 100

264 61.0 51.6 77.4

268 66.0 53.2 79.8





#25

Phenanthrene

Concen: 0.406 ng

RT: 17.285 min Scan# 1696

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

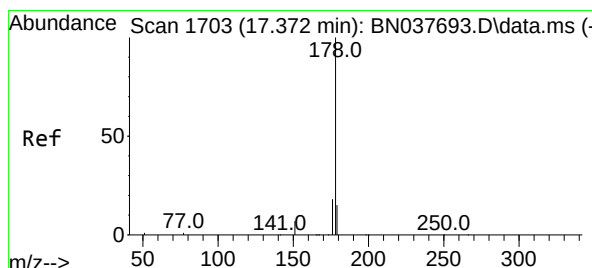
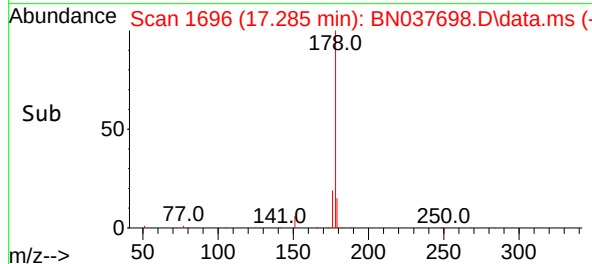
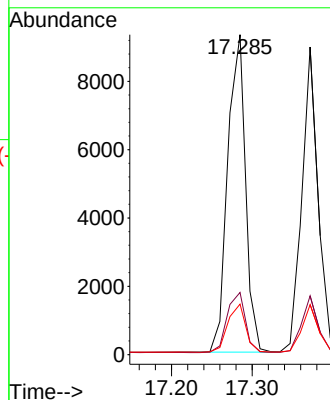
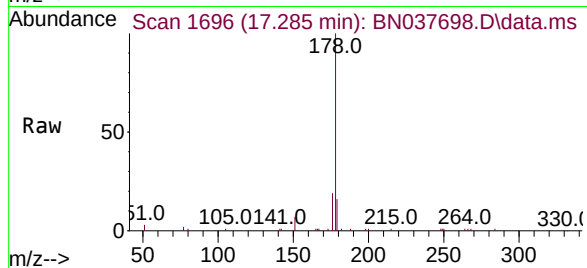
Tgt Ion:178 Resp: 14262

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.6 12.2 18.2



#26

Anthracene

Concen: 0.406 ng

RT: 17.372 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

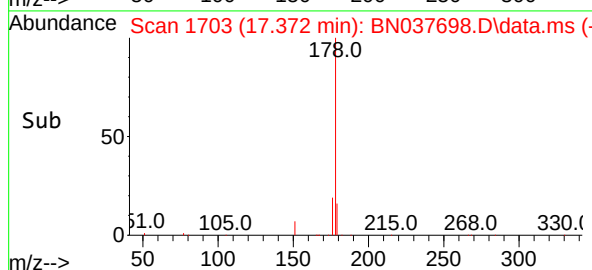
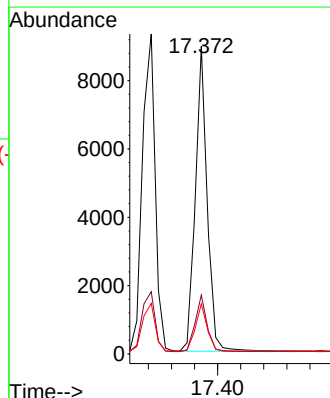
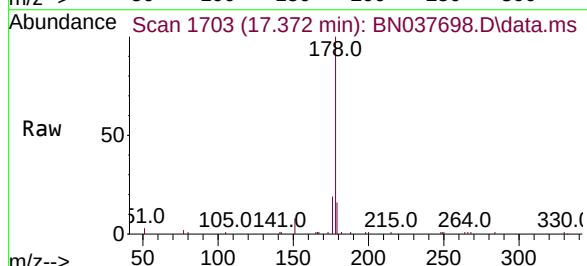
Tgt Ion:178 Resp: 12642

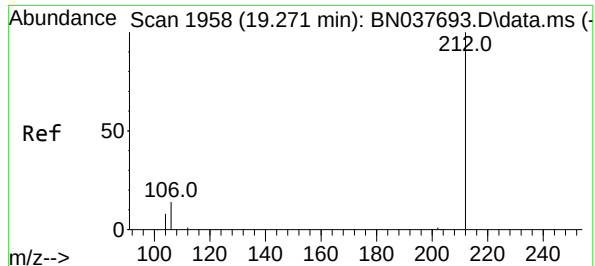
Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

179 15.7 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.397 ng

RT: 19.271 min Scan# 1958

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

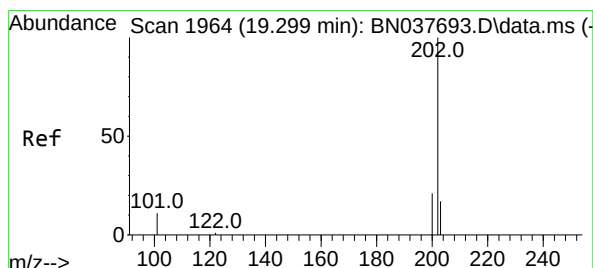
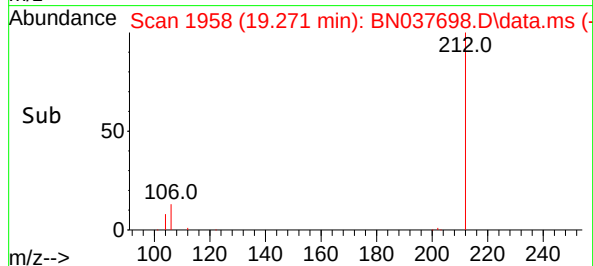
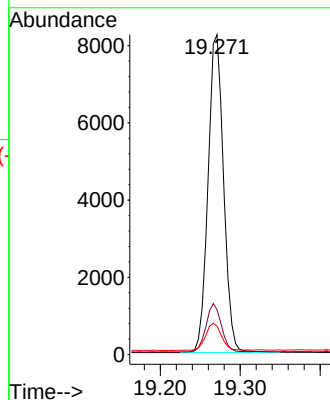
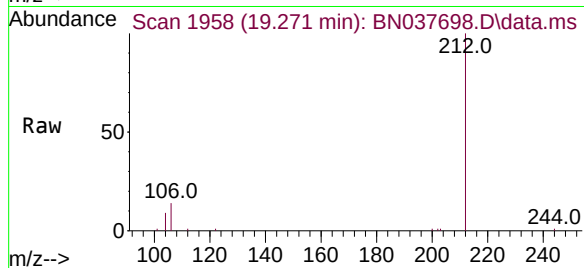
Tgt Ion:212 Resp: 11138

Ion Ratio Lower Upper

212 100

106 15.1 12.2 18.2

104 8.8 6.9 10.3



#28

Fluoranthene

Concen: 0.375 ng

RT: 19.299 min Scan# 1964

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

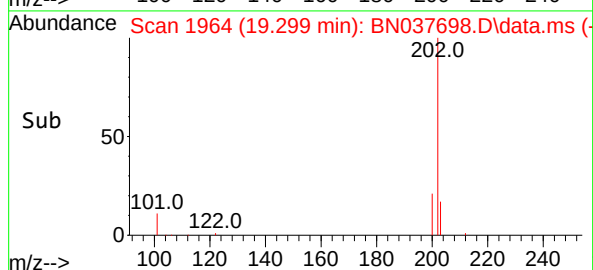
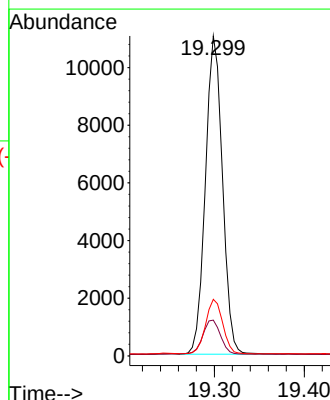
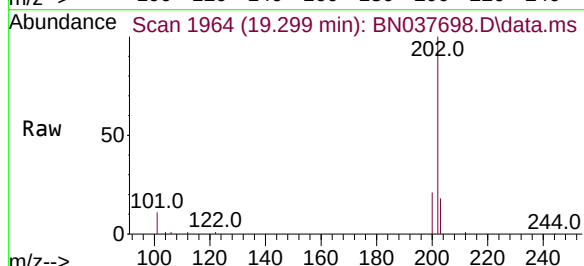
Tgt Ion:202 Resp: 14471

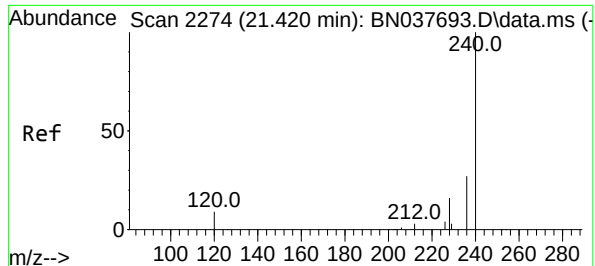
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.1 13.7 20.5

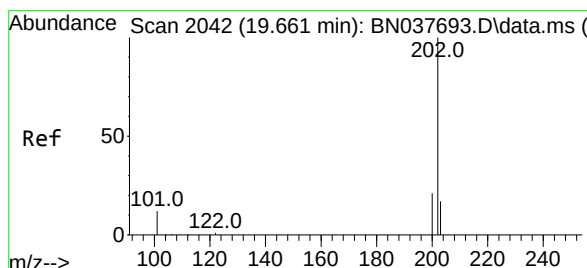
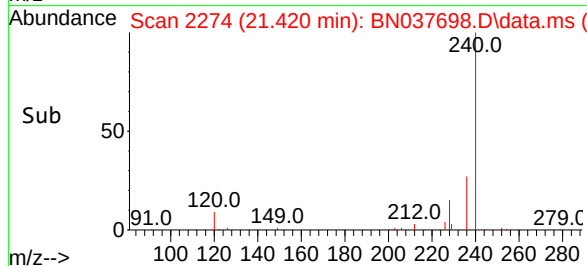
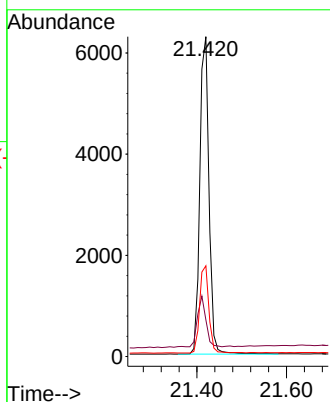
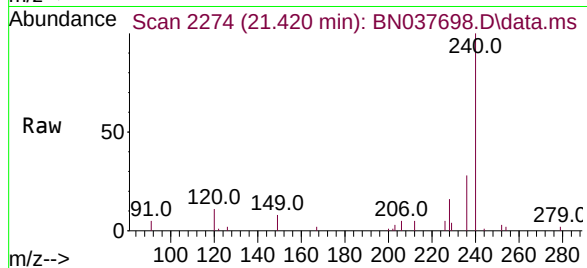




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

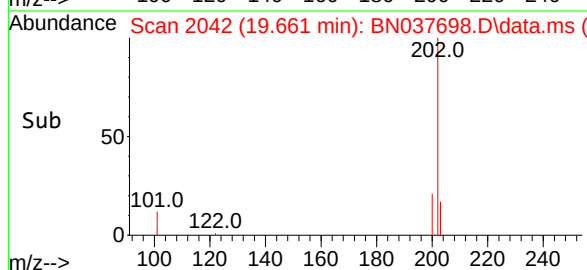
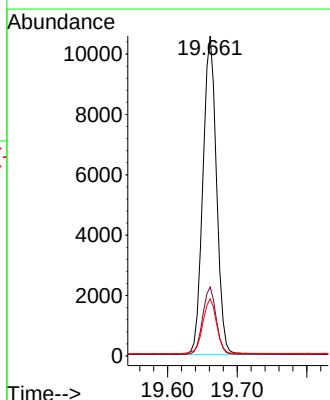
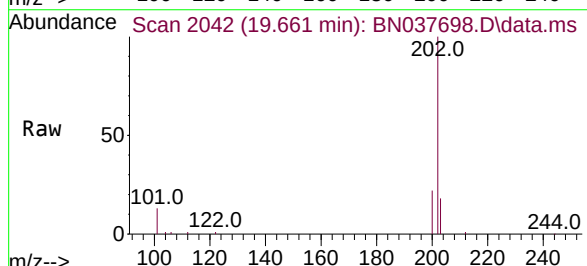
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

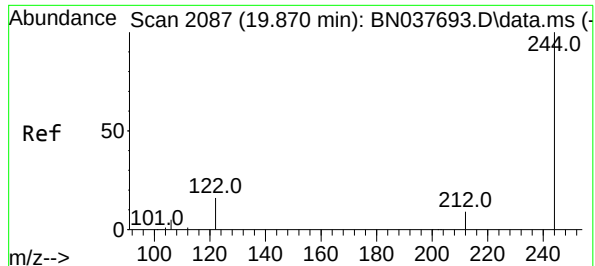
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.2	13.8
236	28.4	22.6	33.8



#30
Pyrene
Concen: 0.410 ng
RT: 19.661 min Scan# 2042
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5

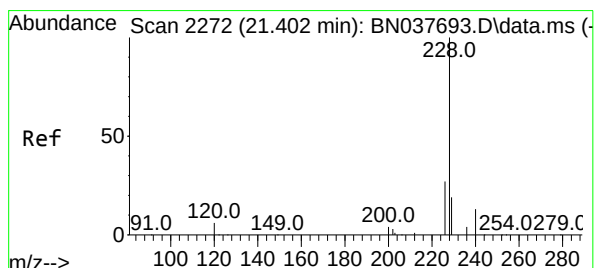
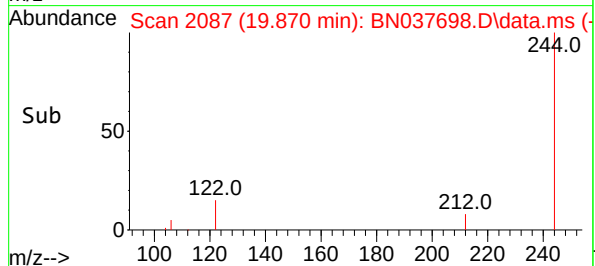
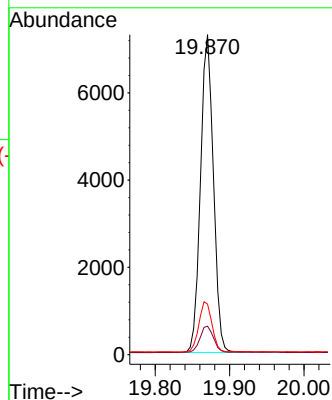
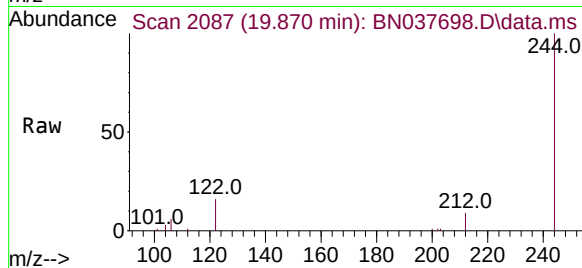




#31
Terphenyl-d14
Concen: 0.484 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

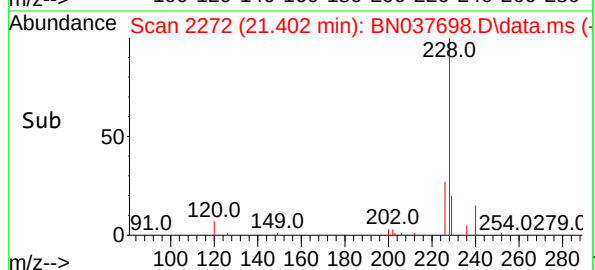
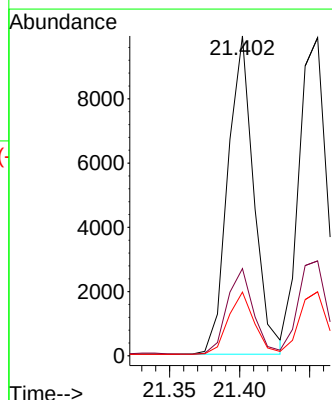
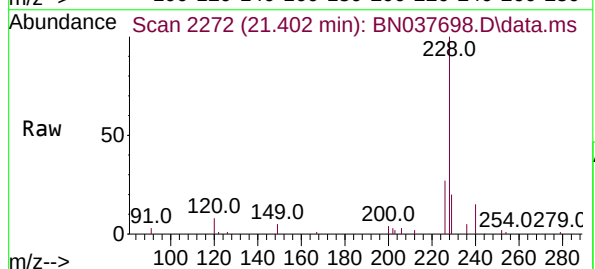
Instrument :
BNA_N
ClientSampleId :
ICVBN091125

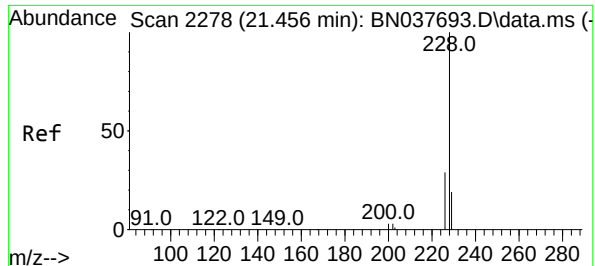
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.5	11.3
122	15.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037698.D
Acq: 11 Sep 2025 14:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.9	15.8	23.6





#33

Chrysene

Concen: 0.418 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

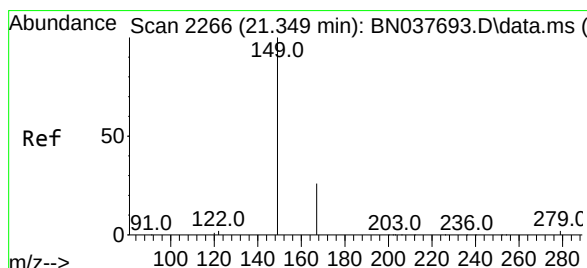
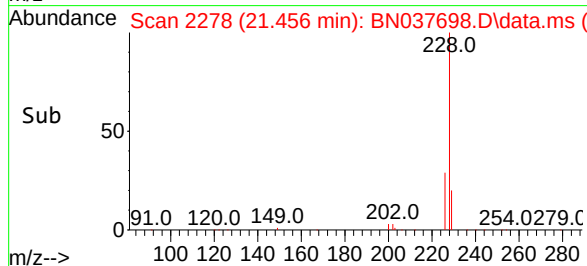
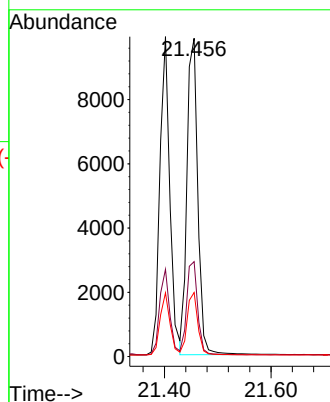
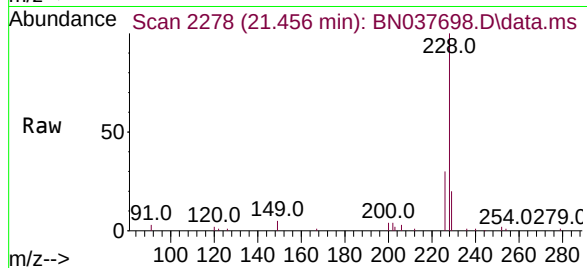
Tgt Ion:228 Resp: 13963

Ion Ratio Lower Upper

228 100

226 29.9 23.5 35.3

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.351 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

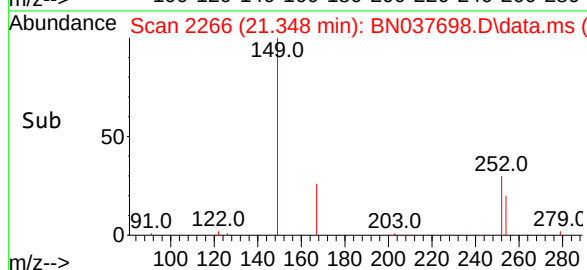
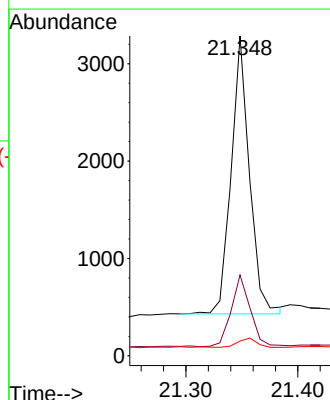
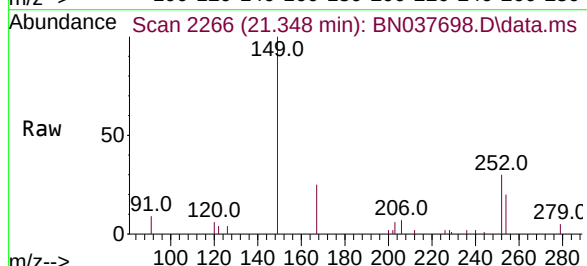
Tgt Ion:149 Resp: 3245

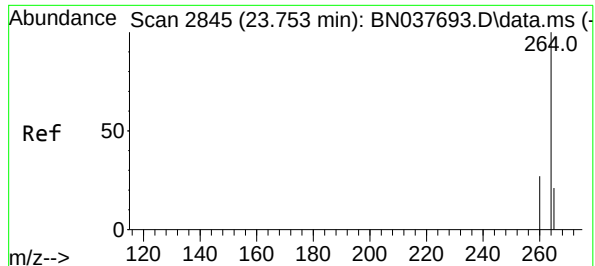
Ion Ratio Lower Upper

149 100

167 26.8 20.8 31.2

279 3.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.750 min Scan# 2845

Delta R.T. -0.003 min

Lab File: BN037698.D

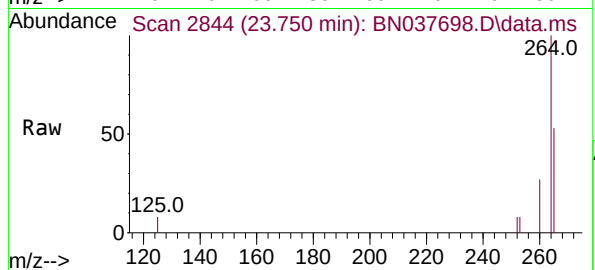
Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125



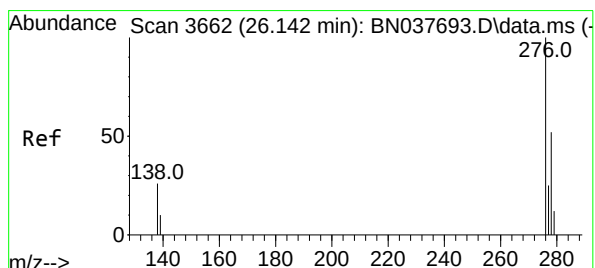
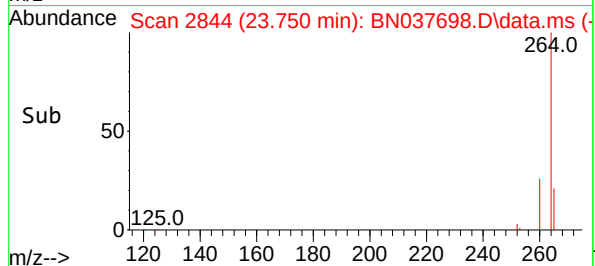
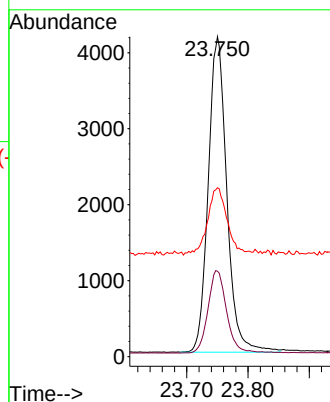
Tgt Ion:264 Resp: 8751

Ion Ratio Lower Upper

264 100

260 26.7 21.8 32.8

265 52.8 39.4 59.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.420 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.003 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

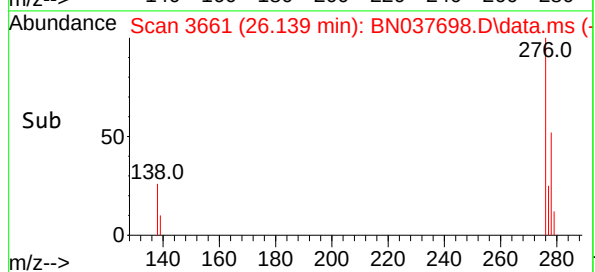
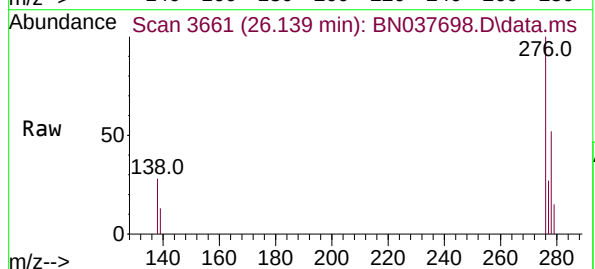
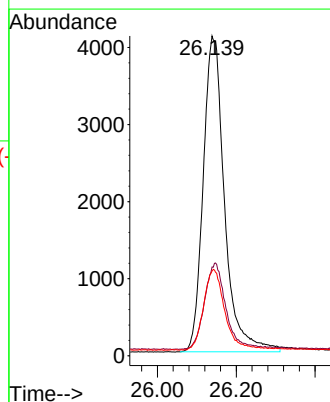
Tgt Ion:276 Resp: 15430

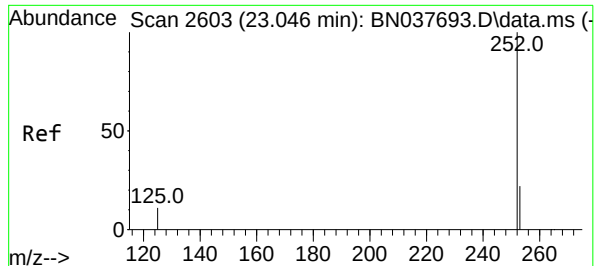
Ion Ratio Lower Upper

276 100

138 27.4 21.9 32.9

277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 23.045 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

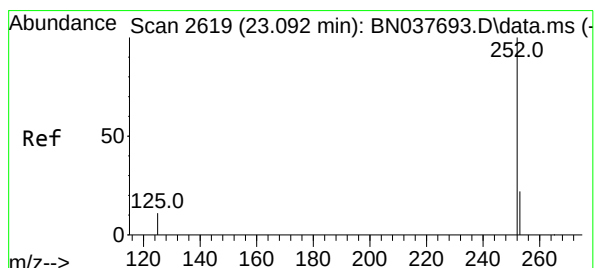
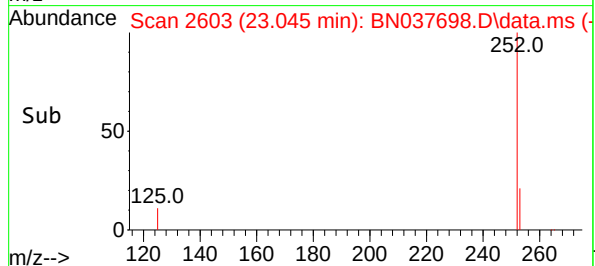
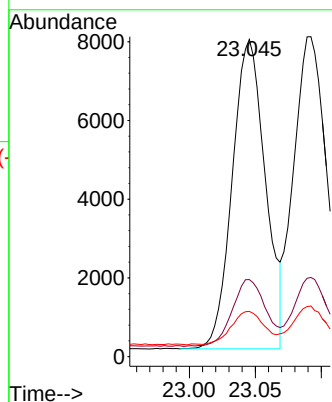
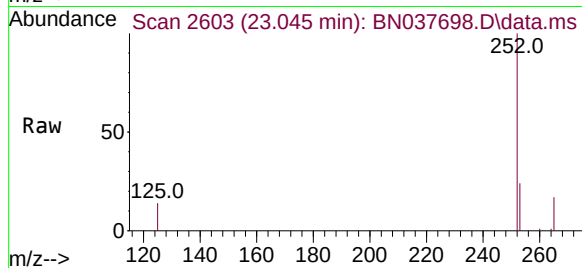
Tgt Ion:252 Resp: 13718

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 14.3 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

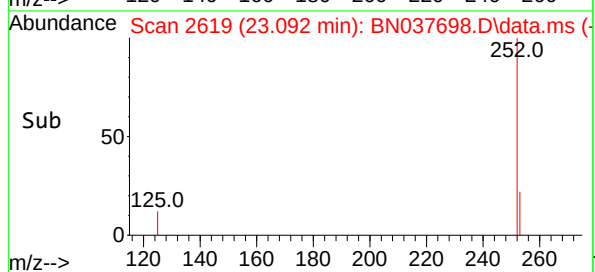
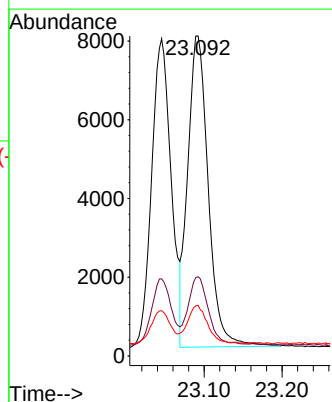
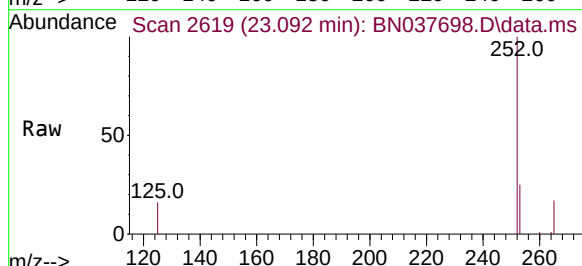
Tgt Ion:252 Resp: 14465

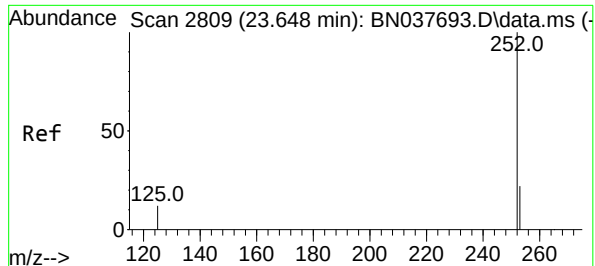
Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.0

125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.433 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125

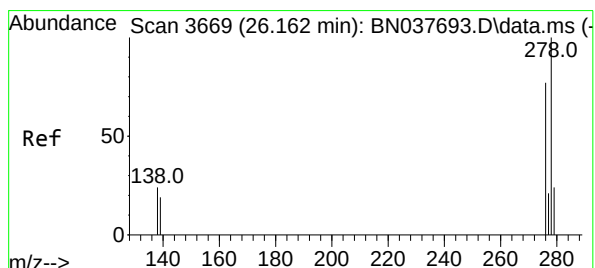
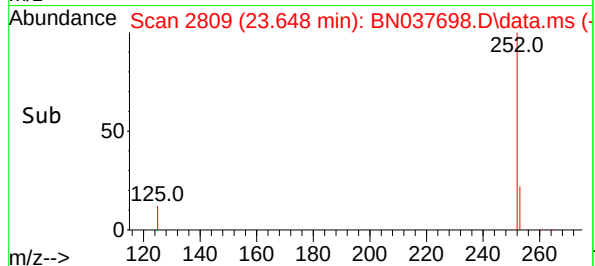
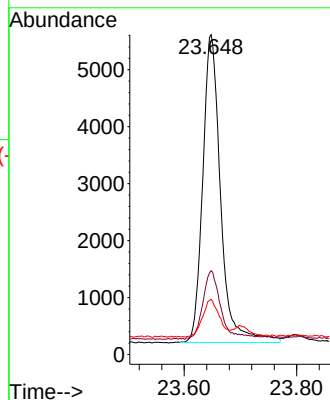
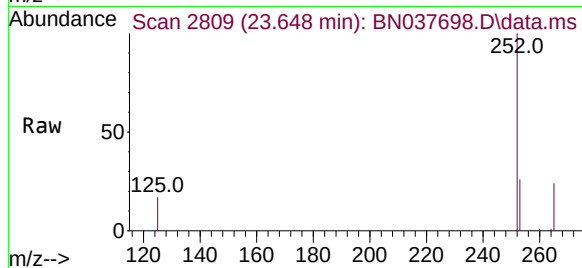
Tgt Ion:252 Resp: 11950

Ion Ratio Lower Upper

252 100

253 26.2 20.8 31.2

125 17.3 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 26.159 min Scan# 3668

Delta R.T. -0.003 min

Lab File: BN037698.D

Acq: 11 Sep 2025 14:09

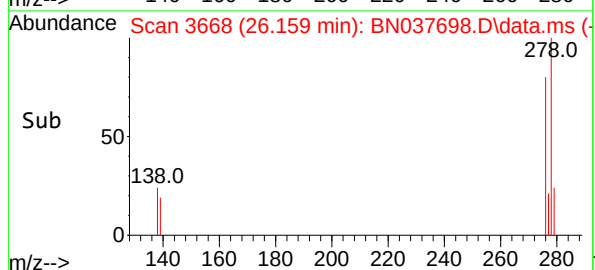
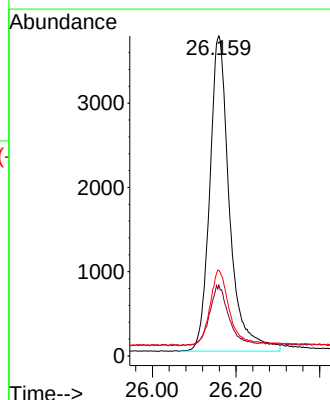
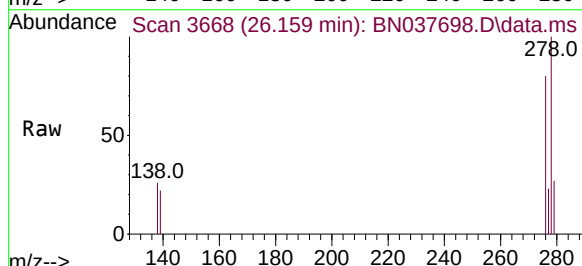
Tgt Ion:278 Resp: 12290

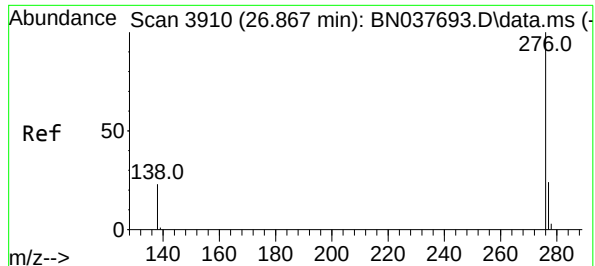
Ion Ratio Lower Upper

278 100

139 22.1 17.8 26.6

279 26.7 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.864 min Scan# 3910

Delta R.T. -0.003 min

Lab File: BN037698.D

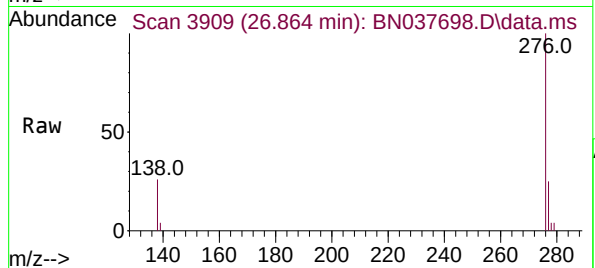
Acq: 11 Sep 2025 14:09

Instrument :

BNA_N

ClientSampleId :

ICVBN091125



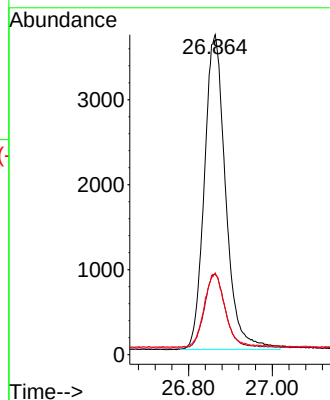
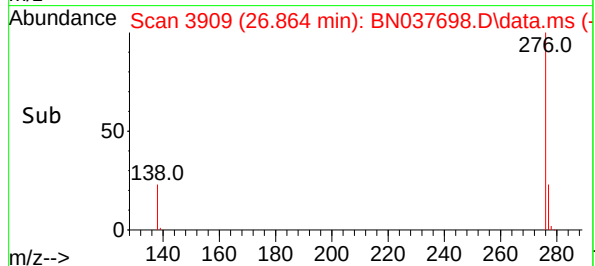
Tgt Ion:276 Resp: 13095

Ion Ratio Lower Upper

276 100

277 25.1 20.6 31.0

138 25.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	101	0.00
2	1,4-Dioxane	0.417	0.489	-17.3	117	0.00
3	n-Nitrosodimethylamine	0.544	0.581	-6.8	104	0.00
4 S	2-Fluorophenol	0.918	0.904	1.5	102	0.00
5 S	Phenol-d6	1.191	1.132	5.0	99	0.00
6	bis(2-Chloroethyl)ether	1.064	1.147	-7.8	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.293	0.332	-13.3	119	0.00
9	Naphthalene	1.093	1.118	-2.3	106	0.00
10	Hexachlorobutadiene	0.198	0.208	-5.1	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.530	0.563	-6.2	116	0.00
12	2-Methylnaphthalene	0.676	0.634	6.2	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.104	0.099	4.8	101	0.00
15 S	2-Fluorobiphenyl	1.673	1.991	-19.0	124	0.00
16	Acenaphthylene	1.834	2.007	-9.4	116	0.01
17	Acenaphthene	1.240	1.230	0.8	104	0.00
18	Fluorene	1.502	1.485	1.1	106	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.035	5.4	105	0.00
21	4-Bromophenyl-phenylether	0.261	0.266	-1.9	105	0.00
22	Hexachlorobenzene	0.300	0.320	-6.7	108	0.00
23	Atrazine	0.166	0.164	1.2	107	0.00
24	Pentachlorophenol	0.087	0.070	19.5	94	0.00
25	Phenanthrene	1.259	1.277	-1.4	104	0.00
26	Anthracene	1.116	1.132	-1.4	105	0.00
27 SURR	Fluoranthene-d10	1.004	0.998	0.6	106	0.00
28	Fluoranthene	1.381	1.296	6.2	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30	Pyrene	1.566	1.604	-2.4	98	0.00
31 S	Terphenyl-d14	0.812	0.981	-20.8	117	0.00
32	Benzo(a)anthracene	1.395	1.434	-2.8	101	0.00
33	Chrysene	1.496	1.563	-4.5	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.363	12.3	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.763	-4.9	112	0.00
37	Benzo(b)fluoranthene	1.575	1.568	0.4	98	0.00
38	Benzo(k)fluoranthene	1.606	1.653	-2.9	106	0.00
39 C	Benzo(a)pyrene	1.261	1.366	-8.3	111	0.00
40	Dibenzo(a,h)anthracene	1.342	1.404	-4.6	113	0.00
41	Benzo(g,h,i)perylene	1.506	1.496	0.7	101	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037698.D
Acq On : 11 Sep 2025 14:09
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091125

Quant Time: Sep 11 16:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	101	0.00
2	1,4-Dioxane	0.400	0.469	-17.2	117	0.00
3	n-Nitrosodimethylamine	0.400	0.427	-6.7	104	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	102	0.00
5 S	Phenol-d6	0.400	0.380	5.0	99	0.00
6	bis(2-Chloroethyl)ether	0.400	0.431	-7.7	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.454	-13.5	119	0.00
9	Naphthalene	0.400	0.409	-2.2	106	0.00
10	Hexachlorobutadiene	0.400	0.420	-5.0	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	116	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	103	0.00
14 S	2,4,6-Tribromophenol	0.400	0.379	5.3	101	0.00
15 S	2-Fluorobiphenyl	0.400	0.476	-19.0	124	0.00
16	Acenaphthylene	0.400	0.438	-9.5	116	0.01
17	Acenaphthene	0.400	0.397	0.8	104	0.00
18	Fluorene	0.400	0.395	1.3	106	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.379	5.3	105	0.00
21	4-Bromophenyl-phenylether	0.400	0.409	-2.2	105	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	108	0.00
23	Atrazine	0.400	0.395	1.3	107	0.00
24	Pentachlorophenol	0.400	0.323	19.3	94	0.00
25	Phenanthrene	0.400	0.406	-1.5	104	0.00
26	Anthracene	0.400	0.406	-1.5	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.397	0.8	106	0.00
28	Fluoranthene	0.400	0.375	6.3	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30	Pyrene	0.400	0.410	-2.5	98	0.00
31 S	Terphenyl-d14	0.400	0.484	-21.0	117	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33	Chrysene	0.400	0.418	-4.5	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.351	12.3	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	112	0.00
37	Benzo(b)fluoranthene	0.400	0.398	0.5	98	0.00
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	106	0.00
39 C	Benzo(a)pyrene	0.400	0.433	-8.2	111	0.00
40	Dibenzo(a,h)anthracene	0.400	0.419	-4.7	113	0.00
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	101	0.00

(#) = Out of Range

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

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

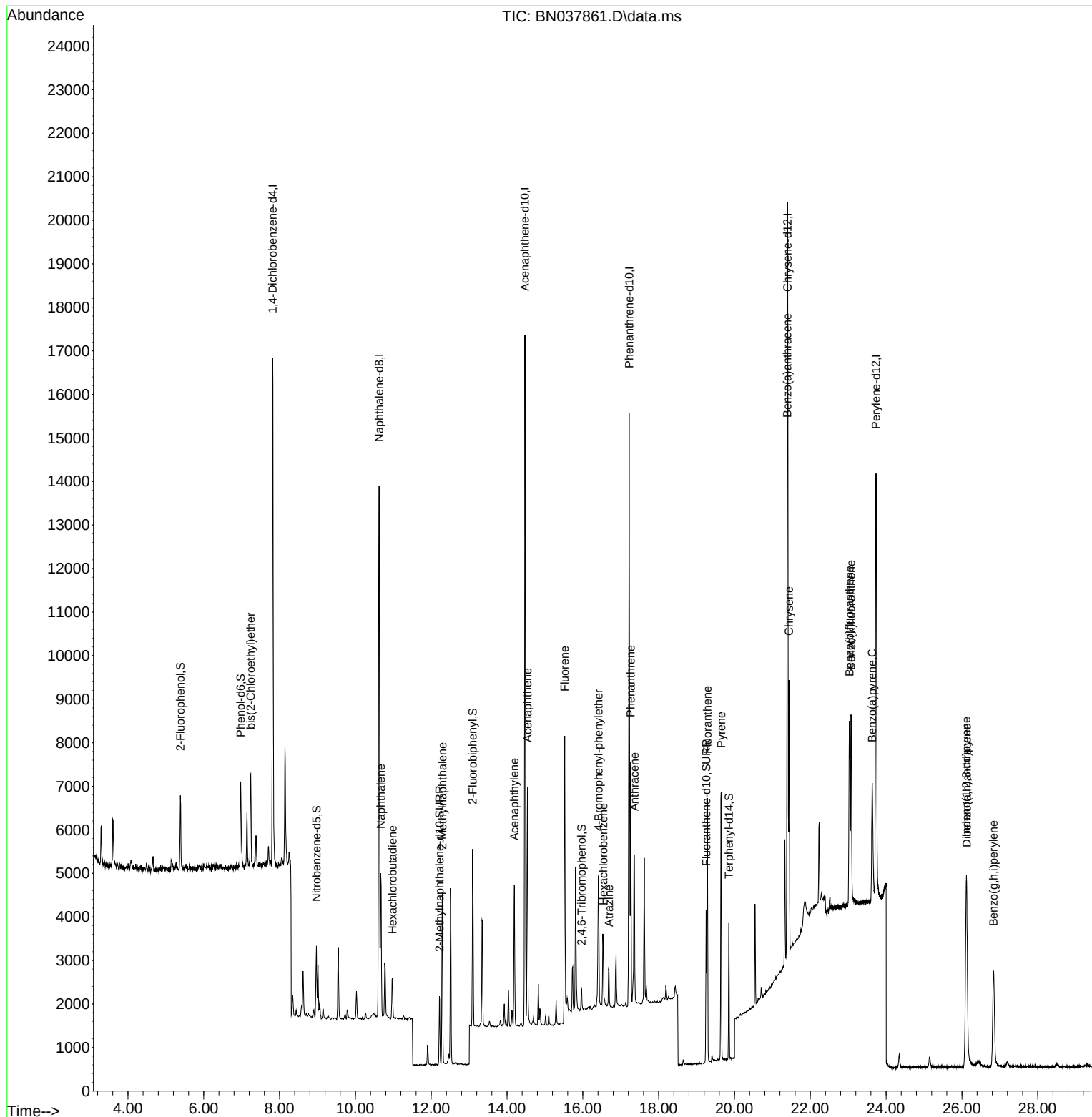
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng	0.00
29) Chrysene-d12	21.402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

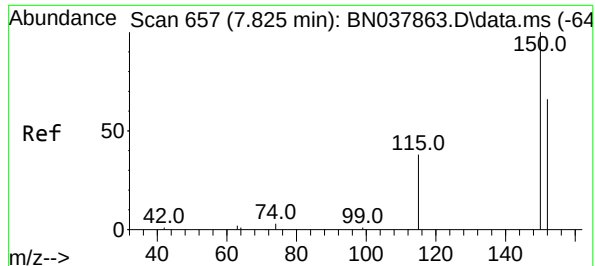
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

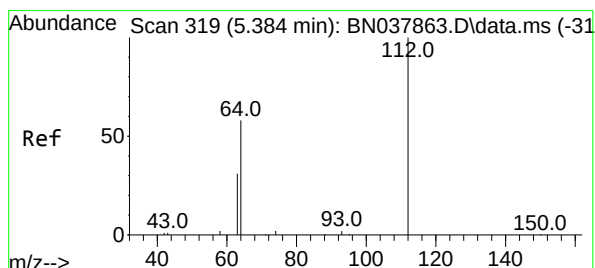
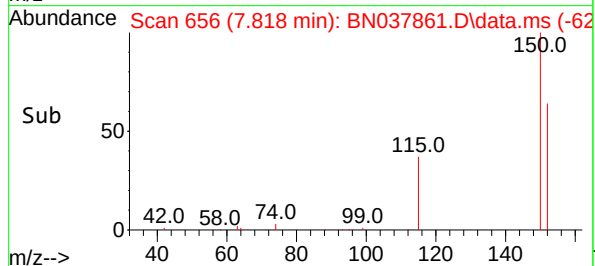
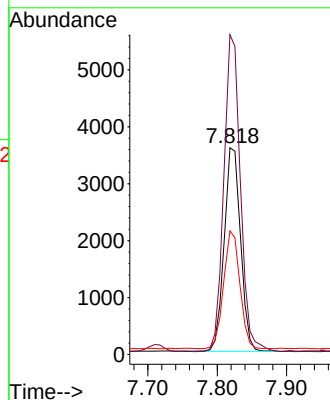
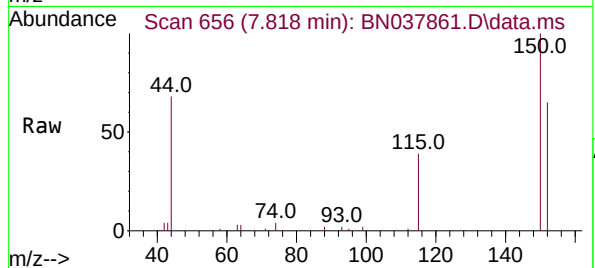




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

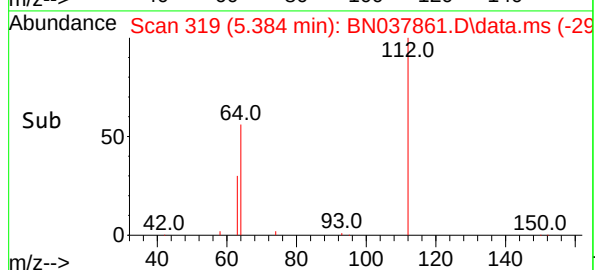
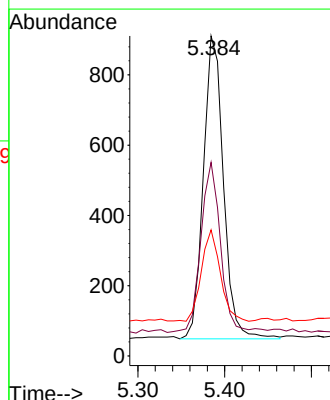
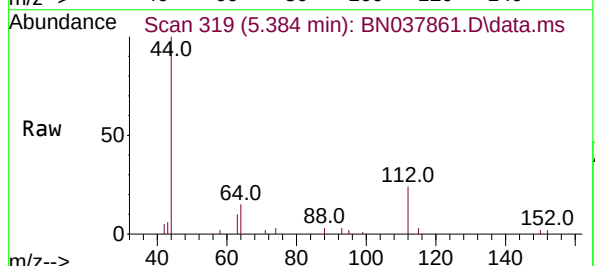
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

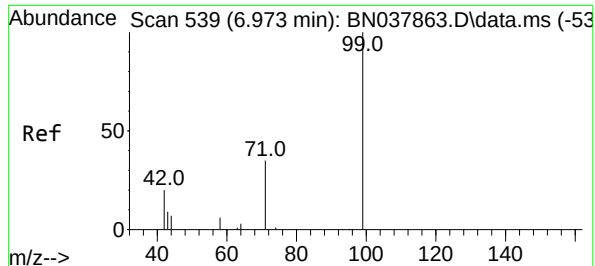
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 59.9 47.4 71.0



#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

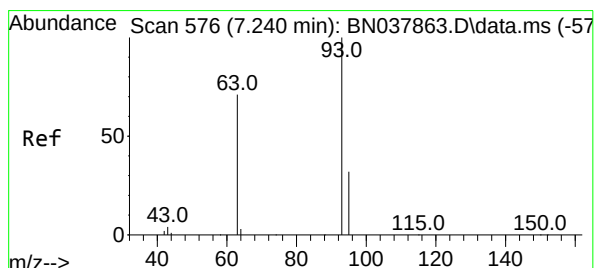
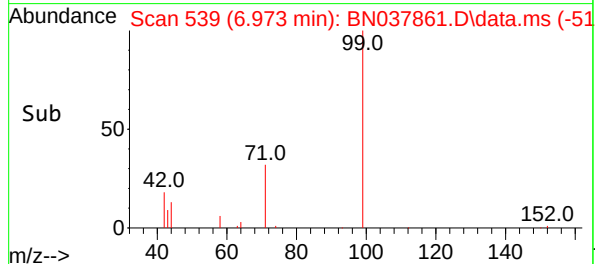
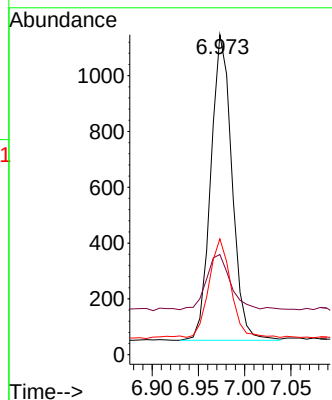
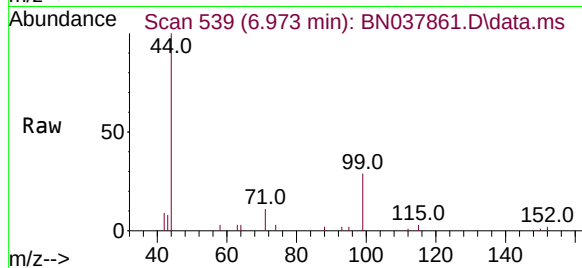




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

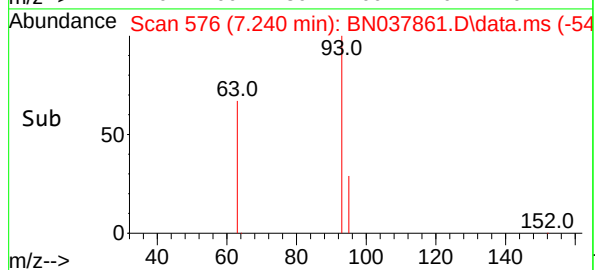
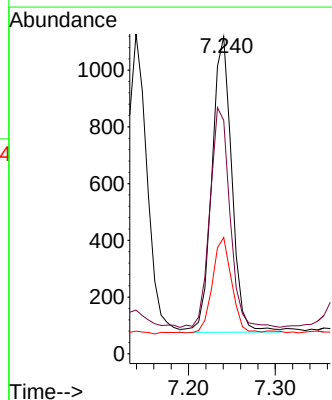
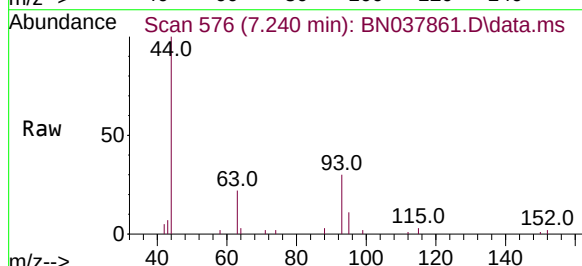
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

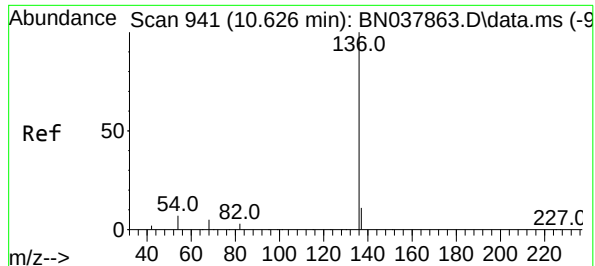
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#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

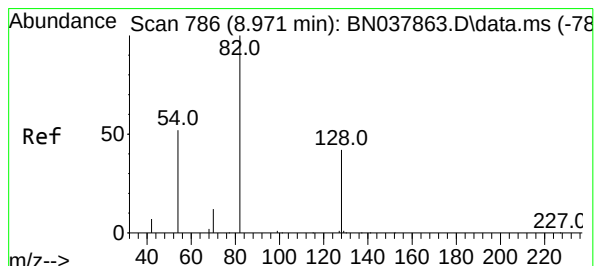
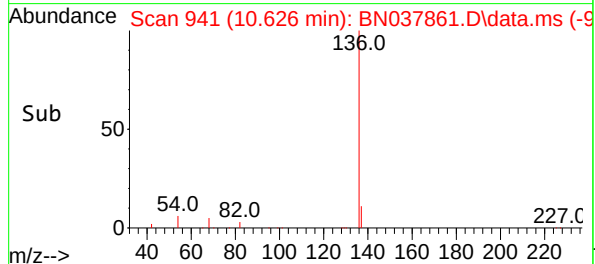
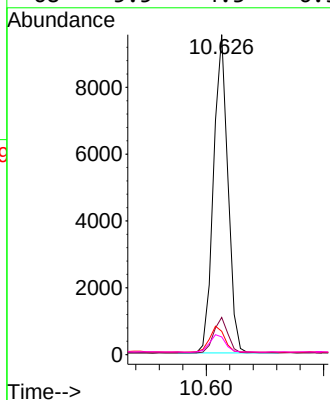
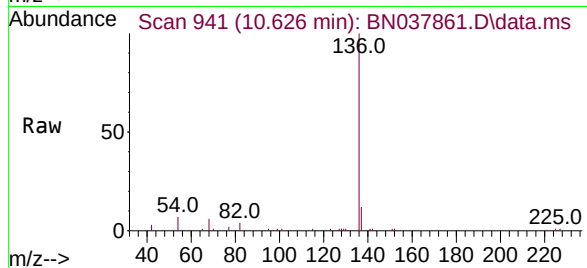




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

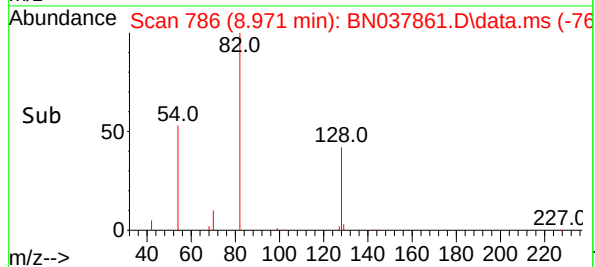
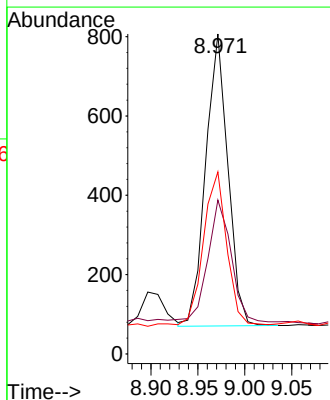
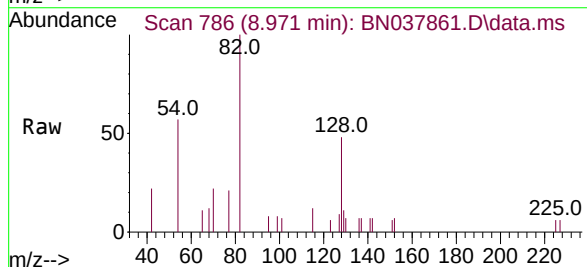
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

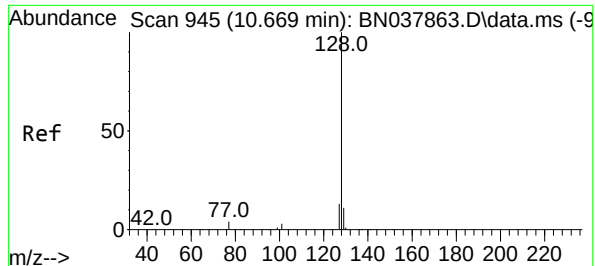
Tgt Ion:	136	Resp:	16223
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#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

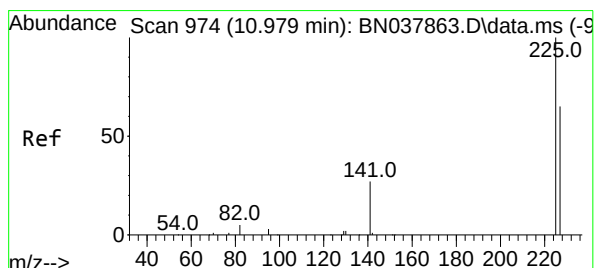
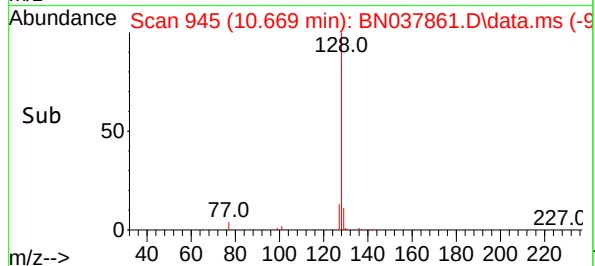
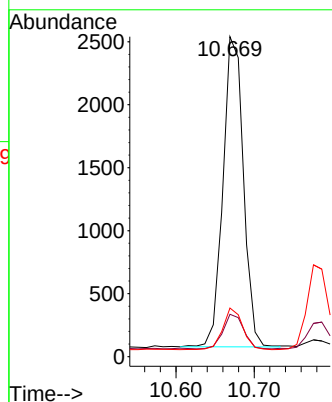
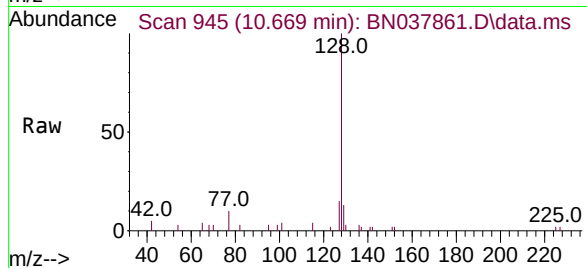
Tgt Ion:128 Resp: 4483

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

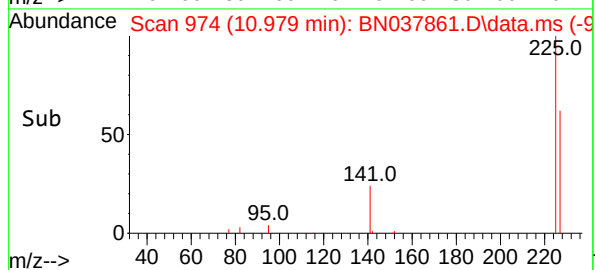
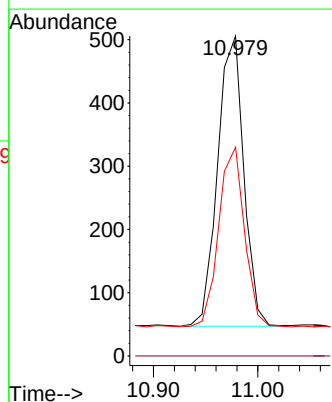
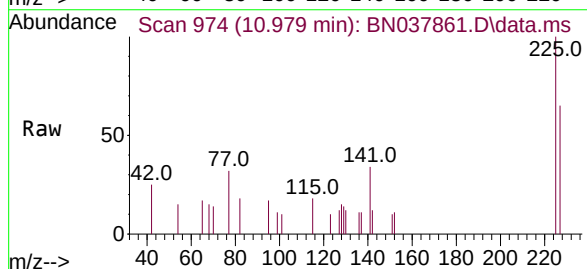
Tgt Ion:225 Resp: 802

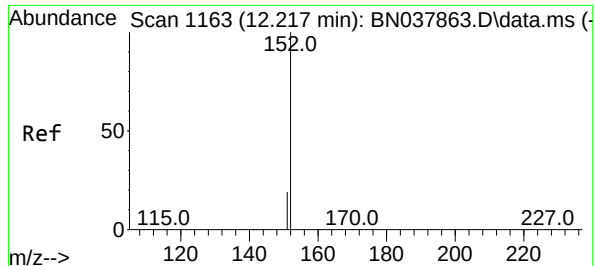
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 60.8 51.4 77.2

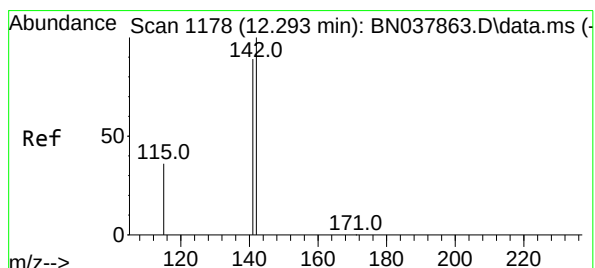
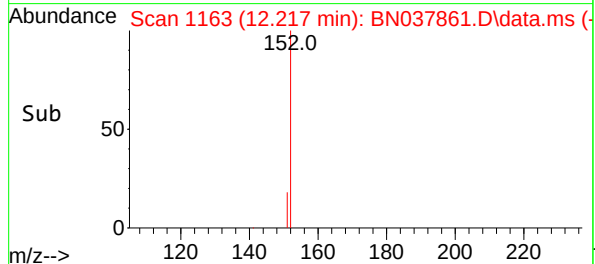
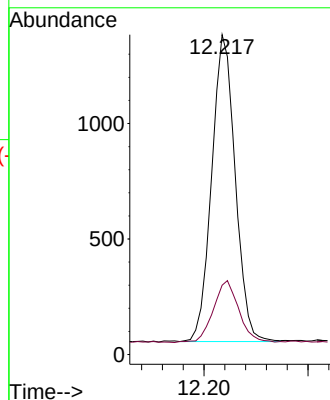
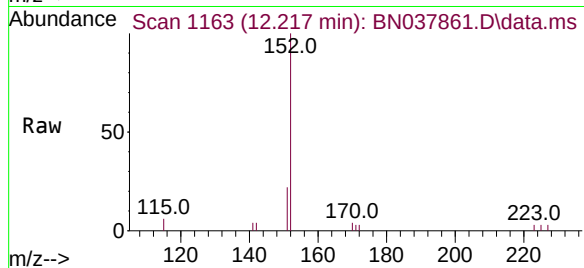




#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

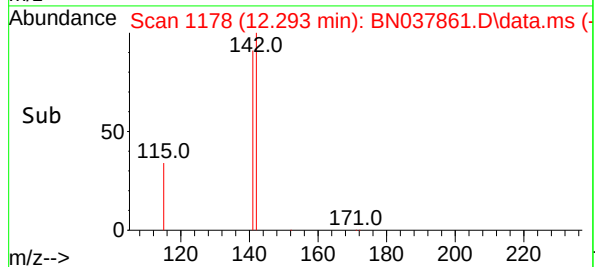
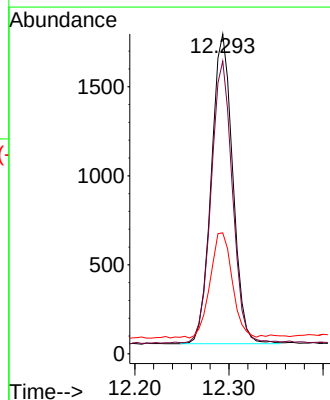
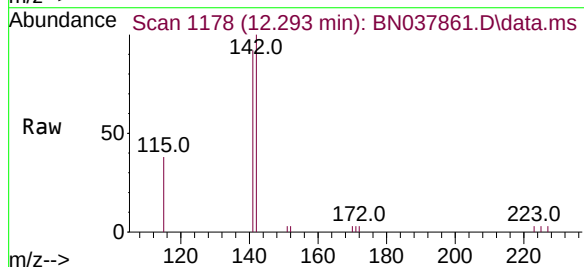
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

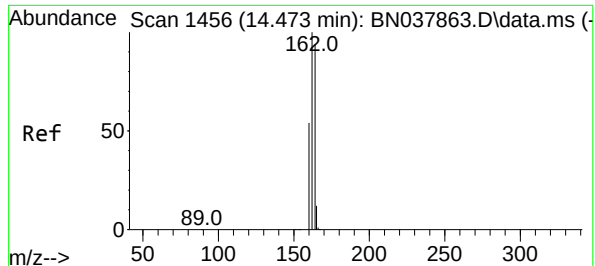
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#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

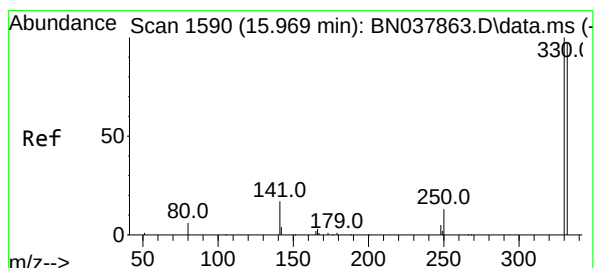
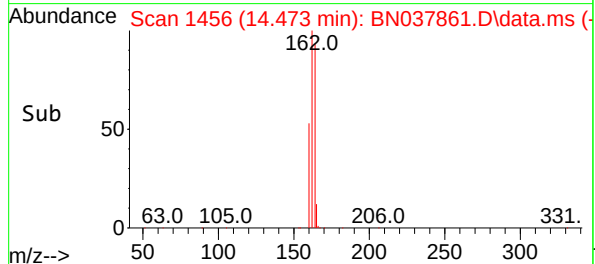
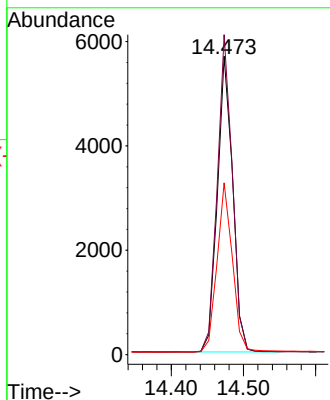
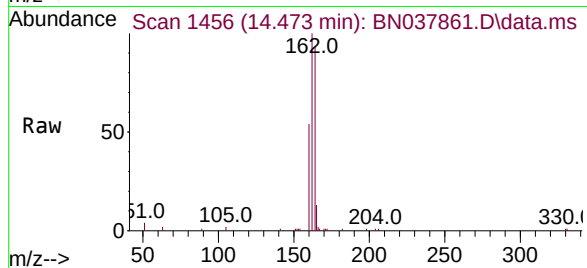




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

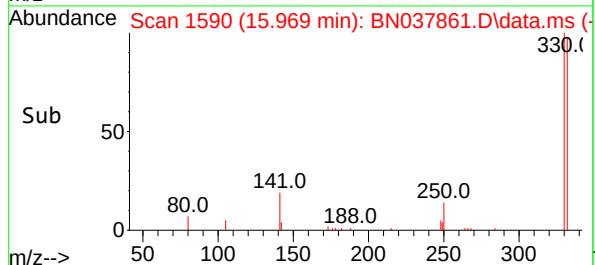
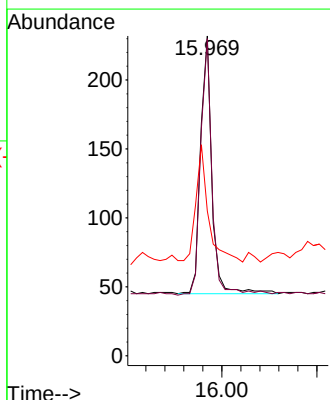
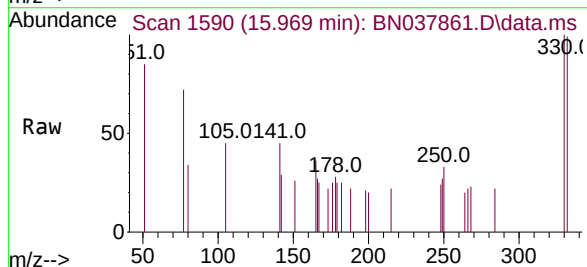
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

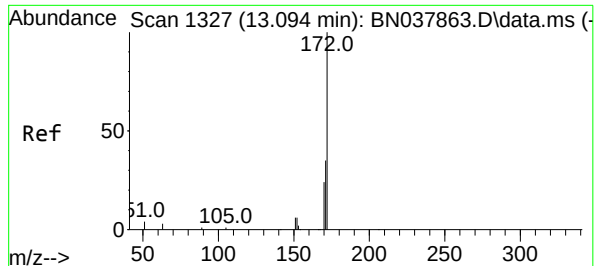
Tgt Ion:164 Resp: 8379
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 57.6 46.1 69.1



#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

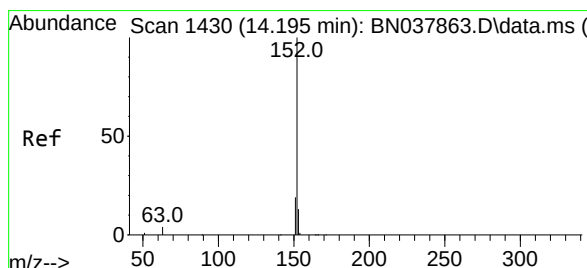
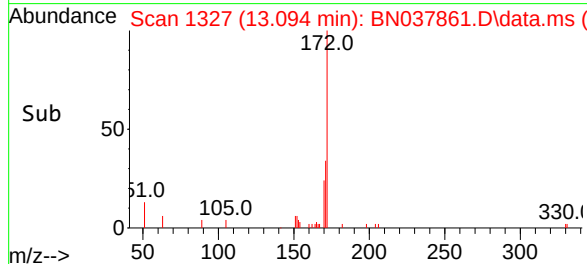
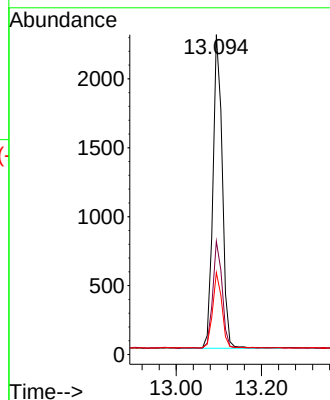
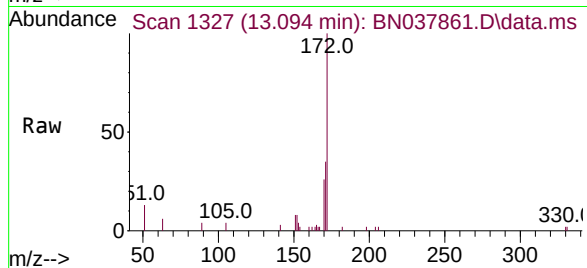
Tgt Ion:172 Resp: 3478

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

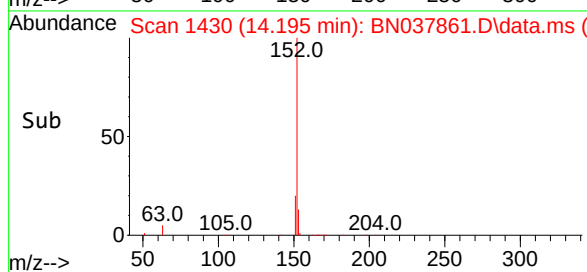
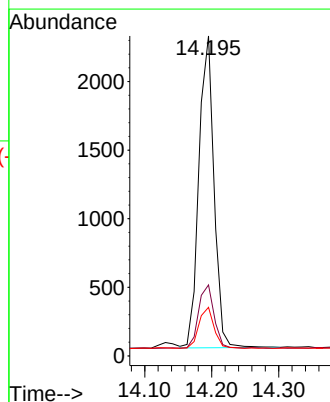
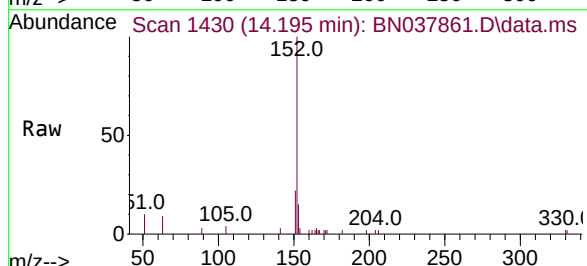
Tgt Ion:152 Resp: 3557

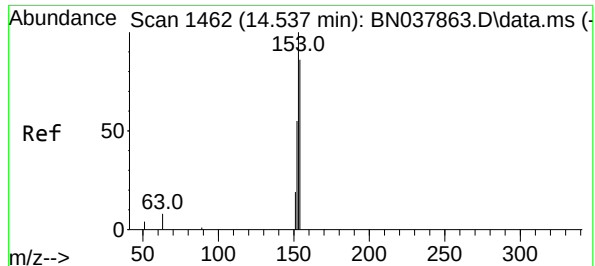
Ion Ratio Lower Upper

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 :

SSTDICC0.1

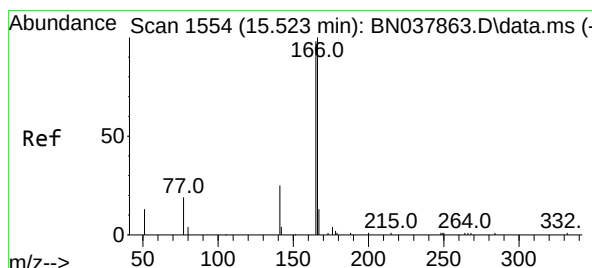
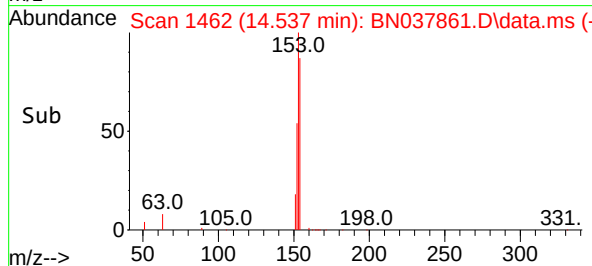
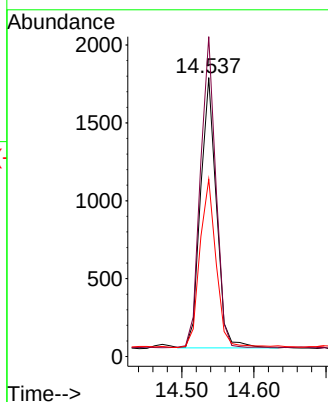
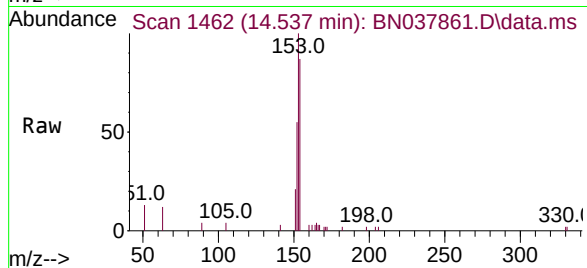
Tgt Ion:154 Resp: 2644

Ion Ratio Lower Upper

154 100

153 111.7 90.5 135.7

152 64.5 51.8 77.8



#18

Fluorene

Concen: 0.093 ng

RT: 15.523 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

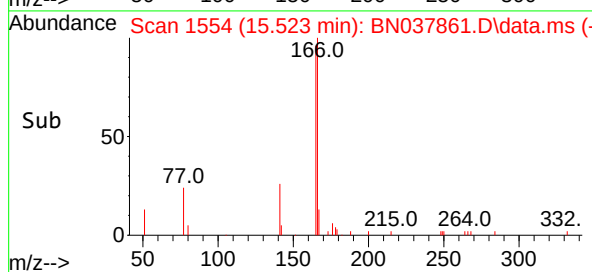
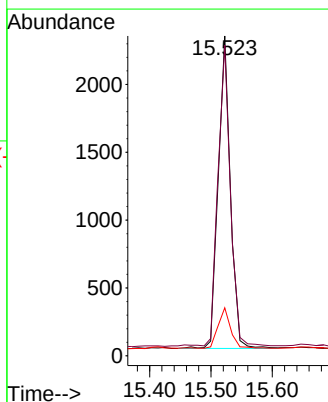
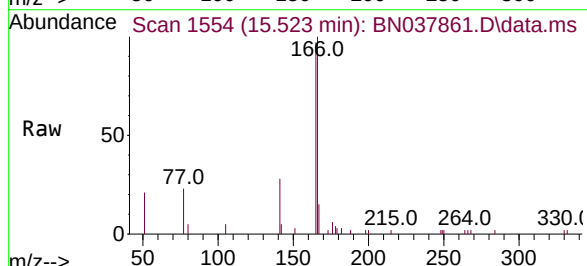
Tgt Ion:166 Resp: 3048

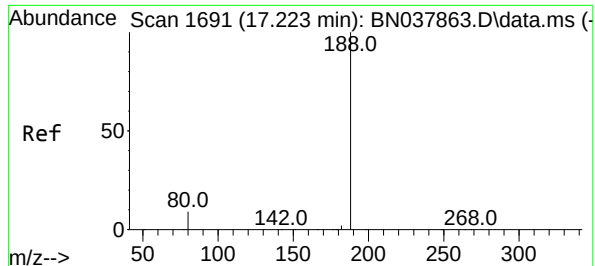
Ion Ratio Lower Upper

166 100

165 100.0 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

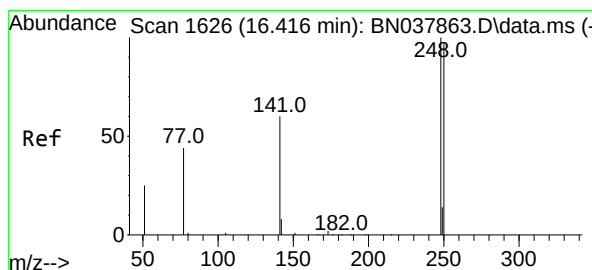
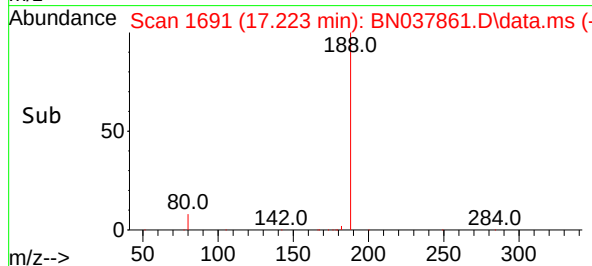
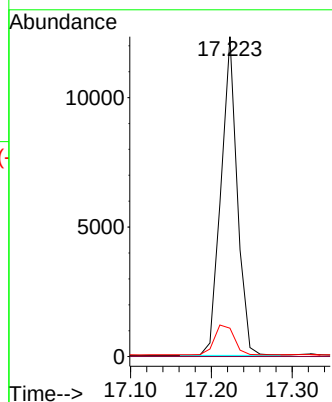
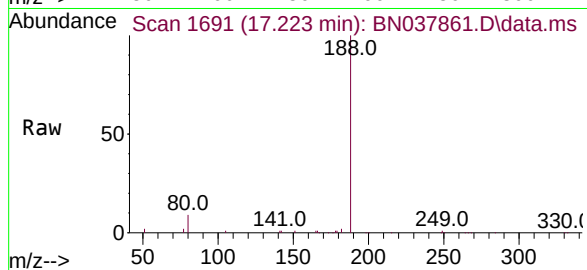
Tgt Ion:188 Resp: 17197

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.6 11.4



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

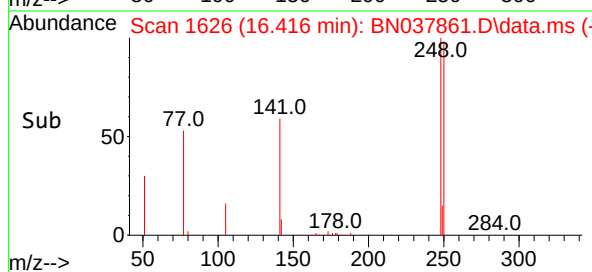
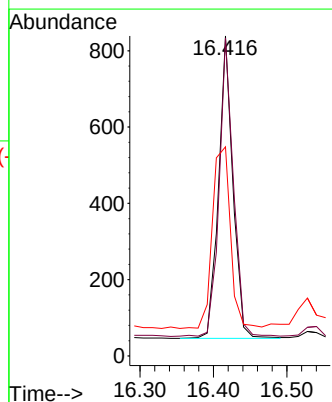
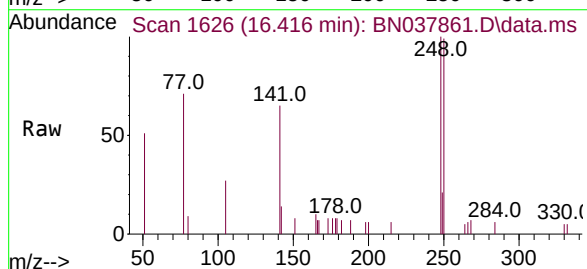
Tgt Ion:248 Resp: 1084

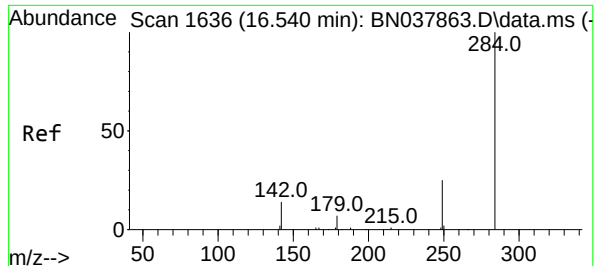
Ion Ratio Lower Upper

248 100

250 99.3 77.6 116.4

141 65.3 48.8 73.2





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

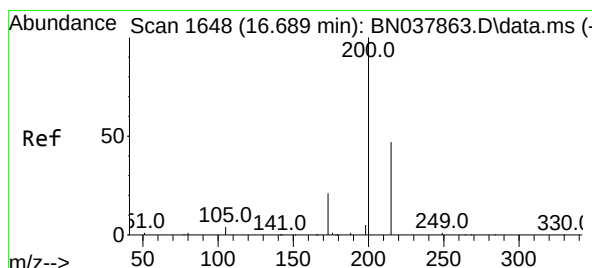
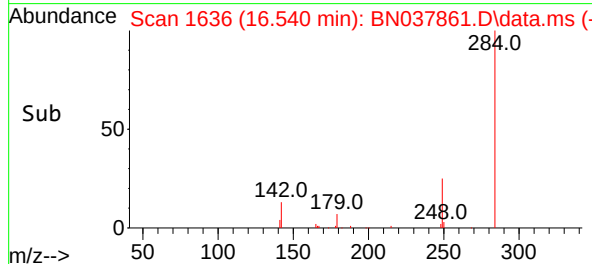
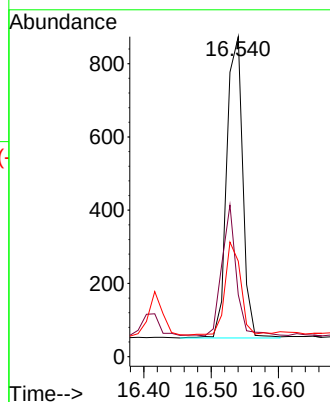
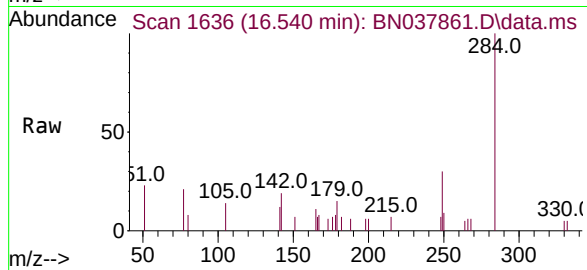
Tgt Ion:284 Resp: 1361

Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.6 23.9 35.9



#23

Atrazine

Concen: 0.090 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

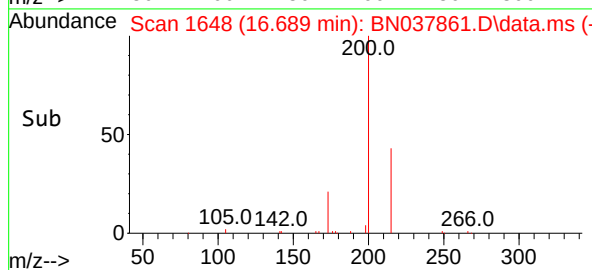
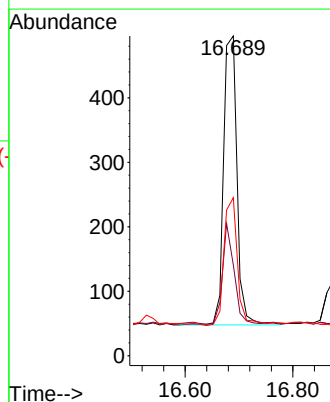
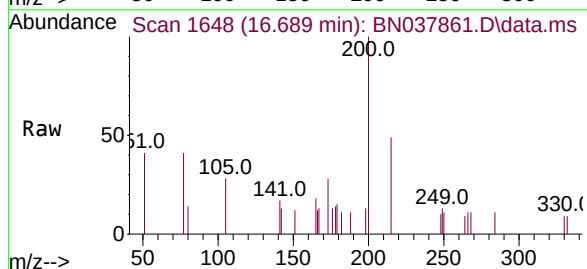
Tgt Ion:200 Resp: 772

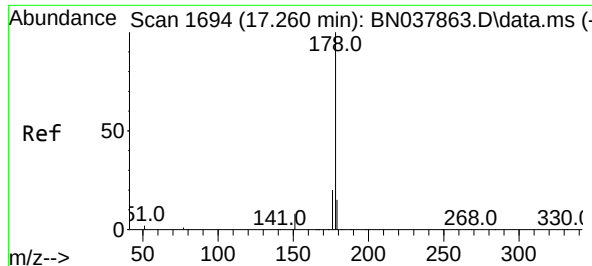
Ion Ratio Lower Upper

200 100

173 28.4 18.3 27.5#

215 49.4 38.6 58.0





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

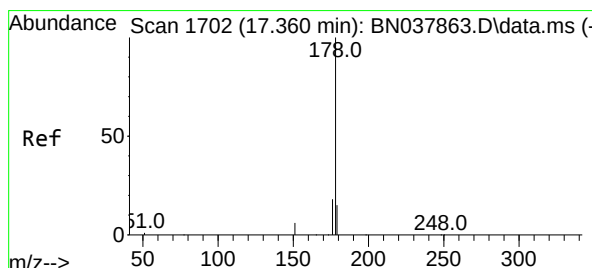
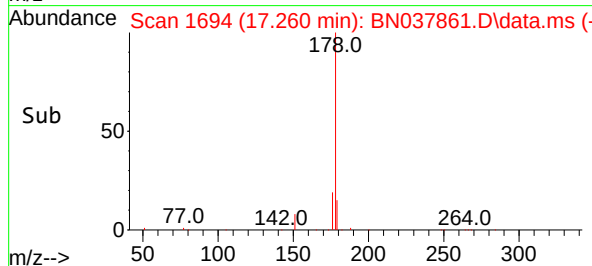
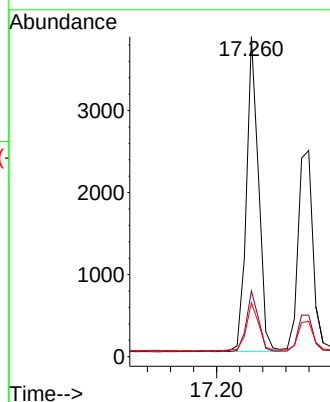
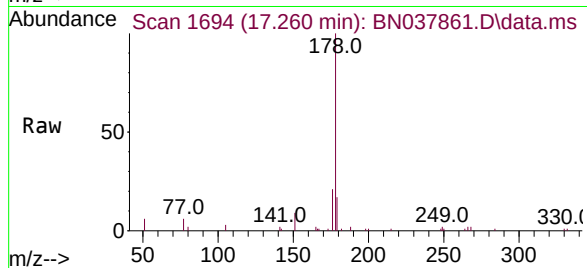
Tgt Ion:178 Resp: 5595

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 16.2 12.3 18.5



#26

Anthracene

Concen: 0.091 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

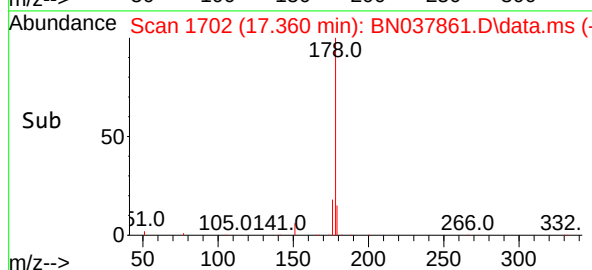
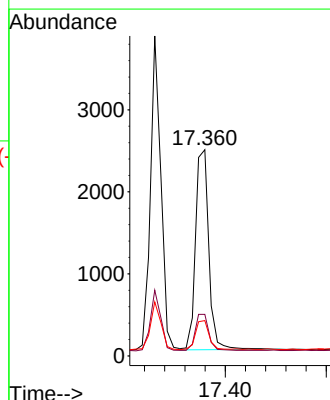
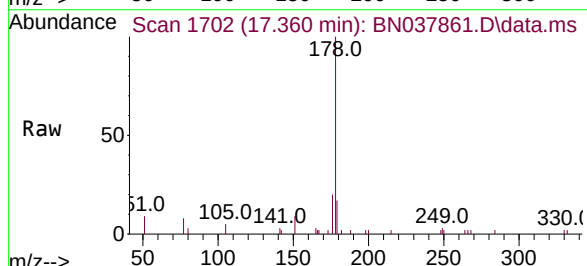
Tgt Ion:178 Resp: 4446

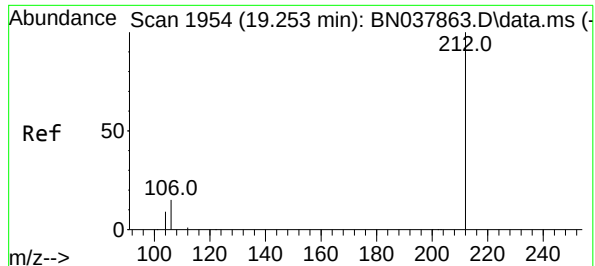
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

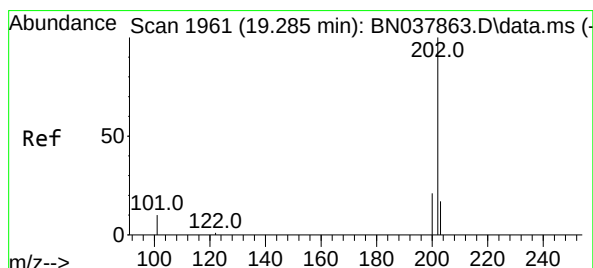
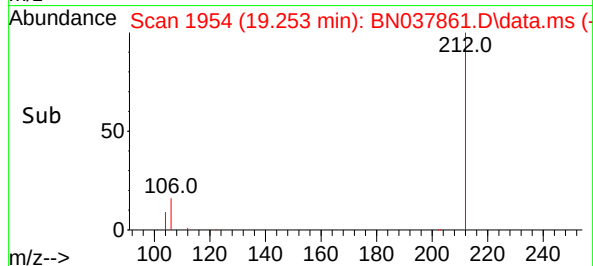
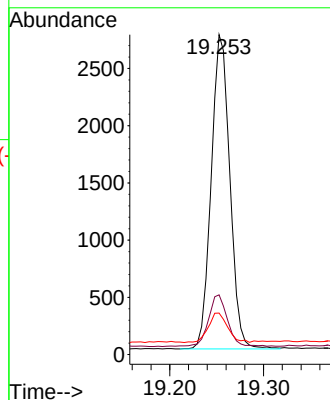
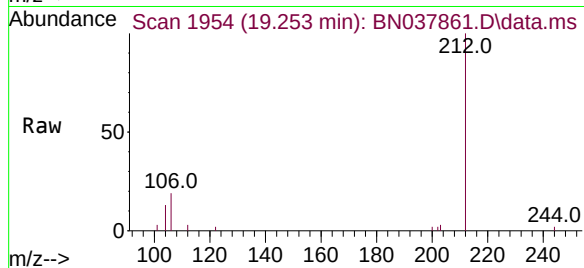
Tgt Ion:212 Resp: 3783

Ion Ratio Lower Upper

212 100

106 16.8 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.088 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

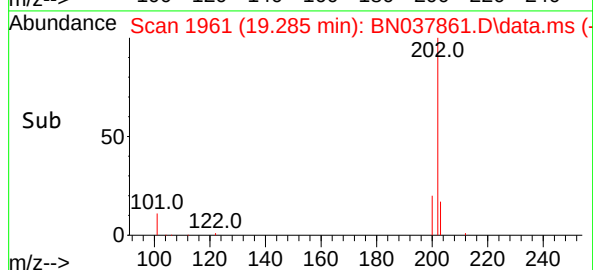
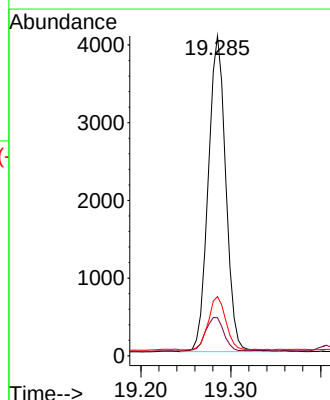
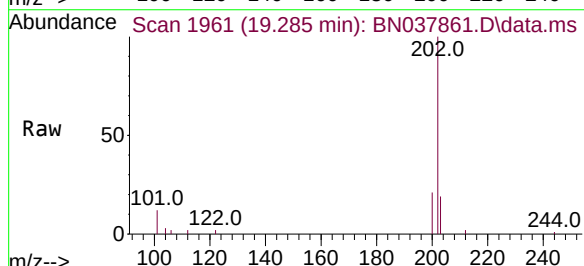
Tgt Ion:202 Resp: 5493

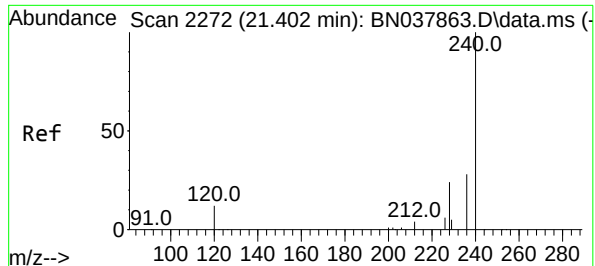
Ion Ratio Lower Upper

202 100

101 11.3 9.3 13.9

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

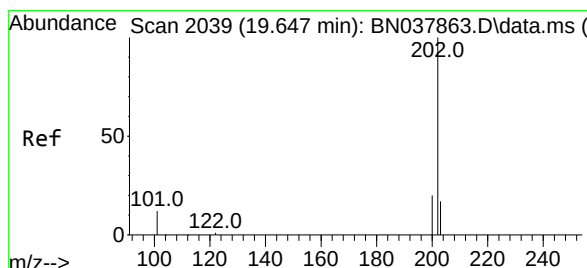
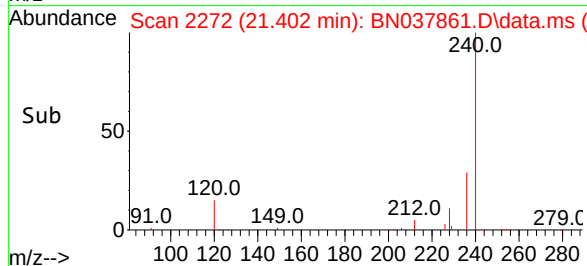
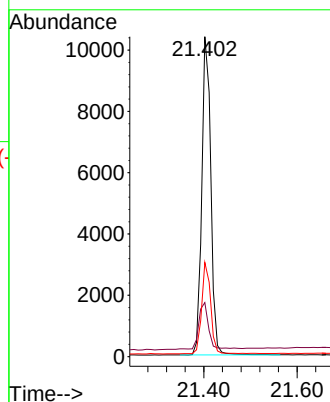
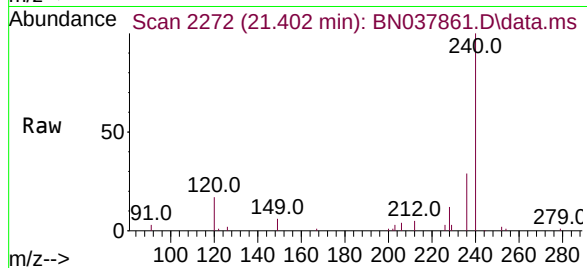
Tgt Ion:240 Resp: 13854

Ion Ratio Lower Upper

240 100

120 16.9 11.4 17.2

236 29.4 23.0 34.6



#30

Pyrene

Concen: 0.100 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

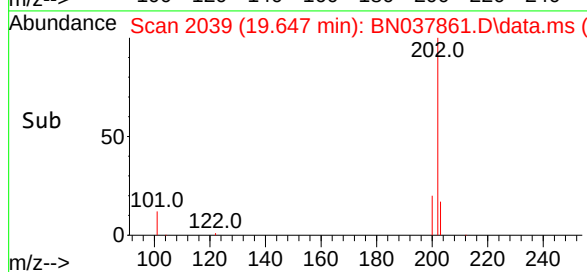
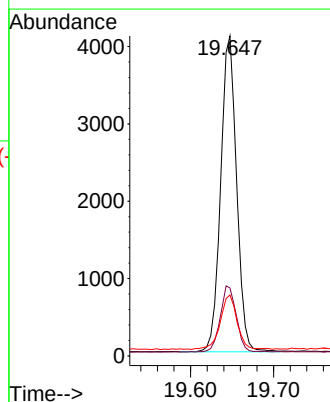
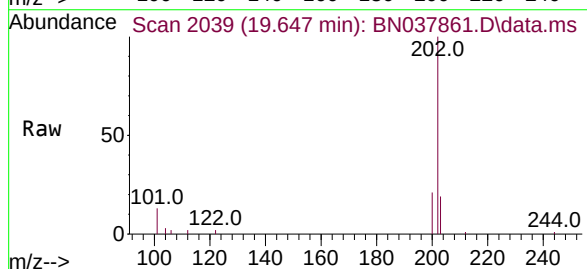
Tgt Ion:202 Resp: 5458

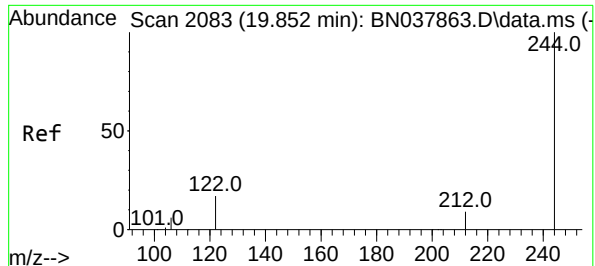
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.2 14.2 21.4





#31

Terphenyl-d14

Concen: 0.100 ng

RT: 19.852 min Scan# 2083

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

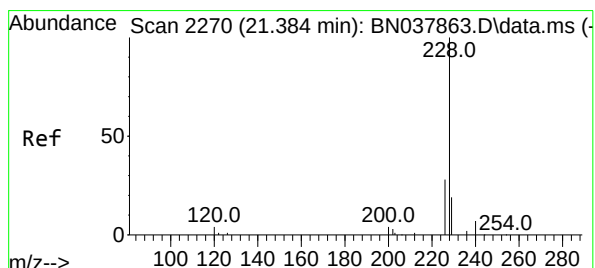
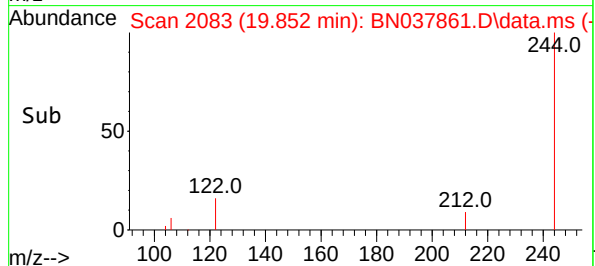
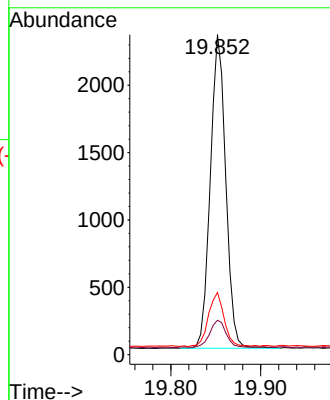
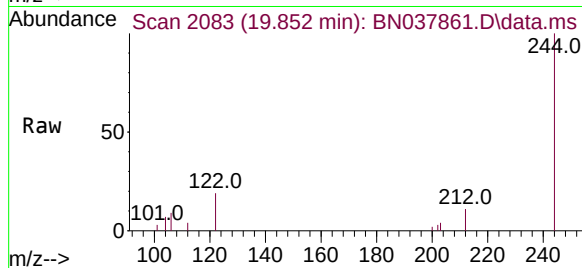
Tgt Ion:244 Resp: 2766

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

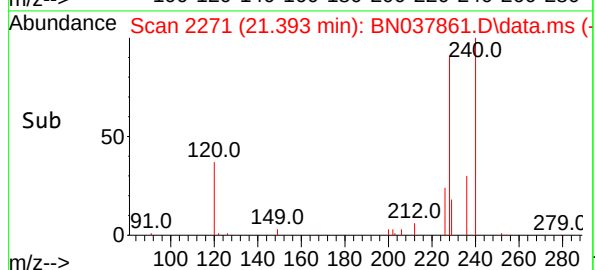
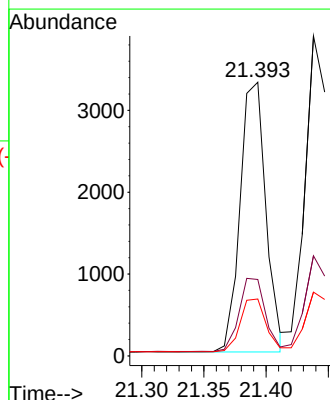
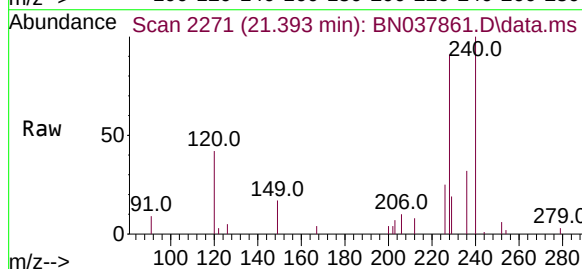
Tgt Ion:228 Resp: 4766

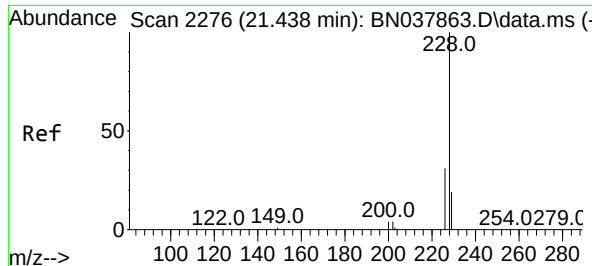
Ion Ratio Lower Upper

228 100

226 27.9 22.6 33.8

229 20.8 15.6 23.4

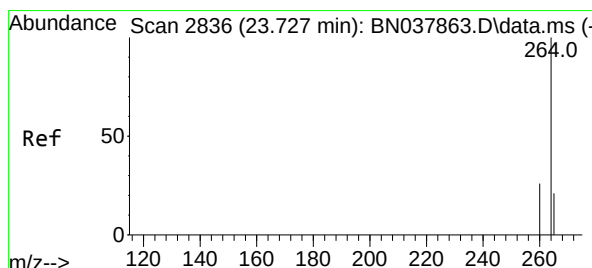
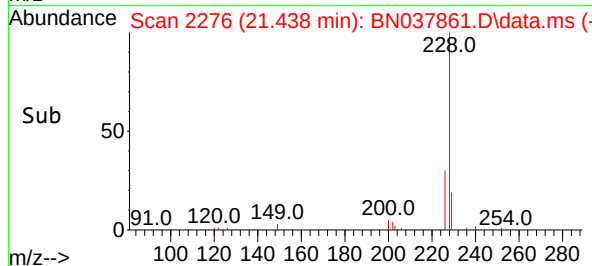
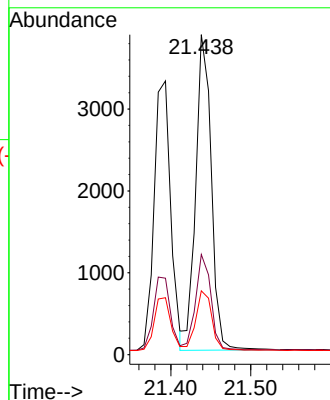
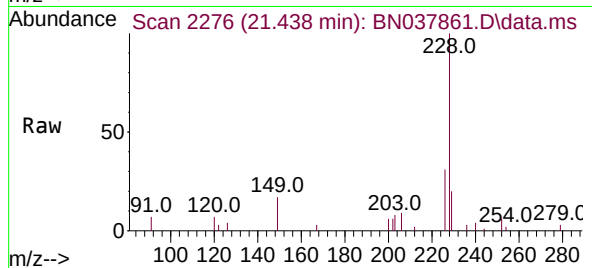




#33
Chrysene
Concen: 0.100 ng
RT: 21.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

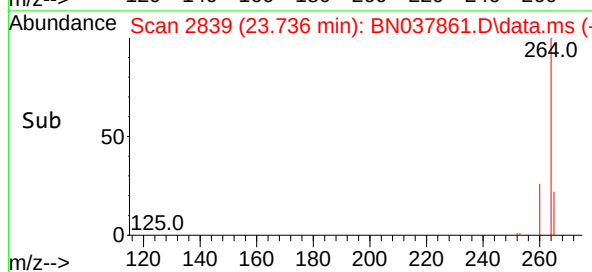
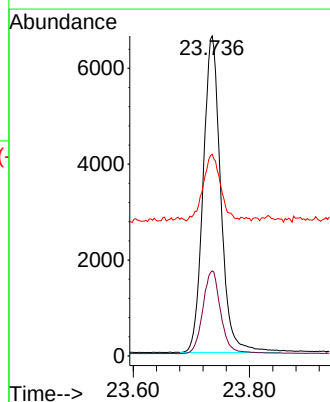
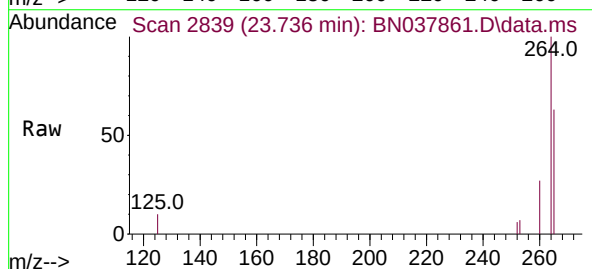
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

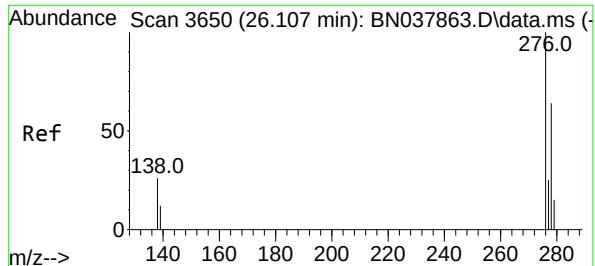
Tgt Ion:	228	Resp:	5223
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.6	37.0
229	19.9	15.6	23.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	264	Resp:	13928
Ion Ratio	Lower	Upper	
264	100		
260	26.6	21.5	32.3
265	63.0	53.8	80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.094 ng

RT: 26.113 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

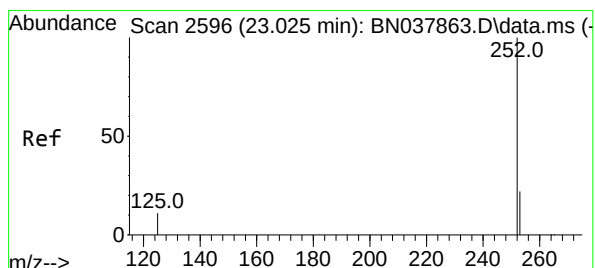
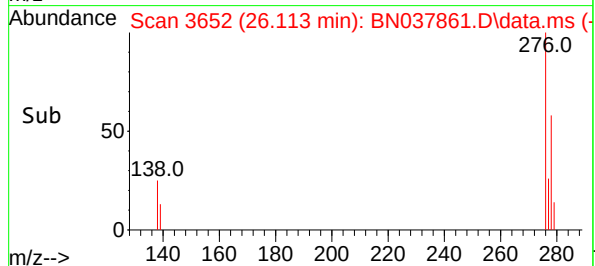
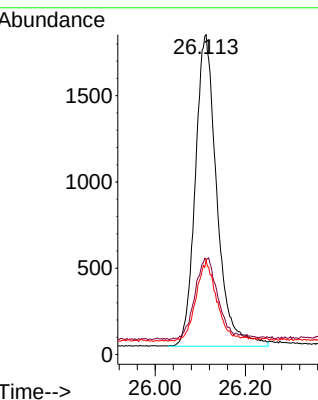
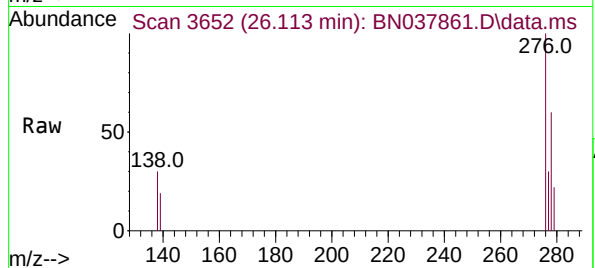
Tgt Ion:276 Resp: 5972

Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.6 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

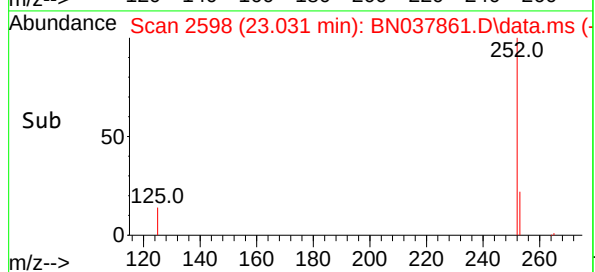
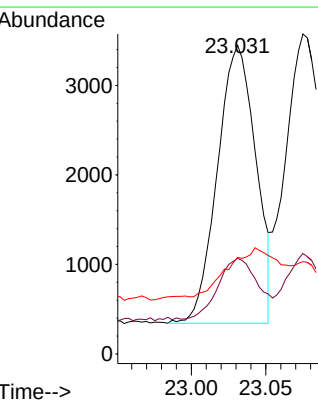
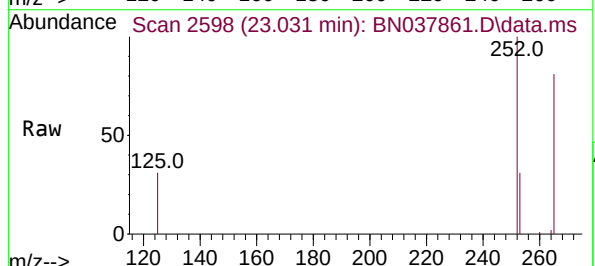
Tgt Ion:252 Resp: 5567

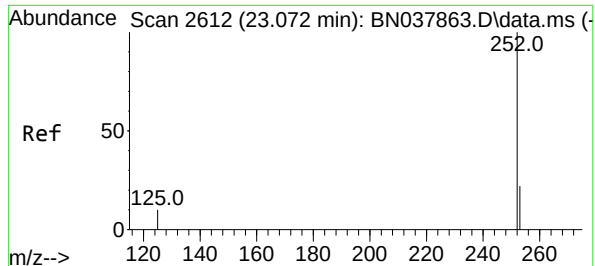
Ion Ratio Lower Upper

252 100

253 31.0 19.4 29.0#

125 31.3 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 23.075 min Scan# 2612

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

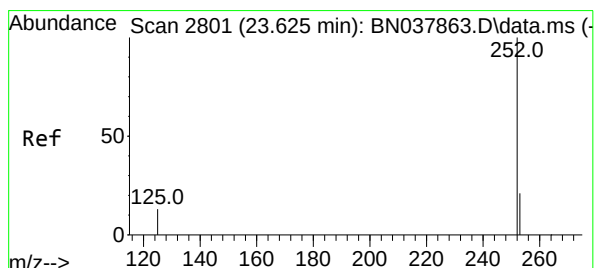
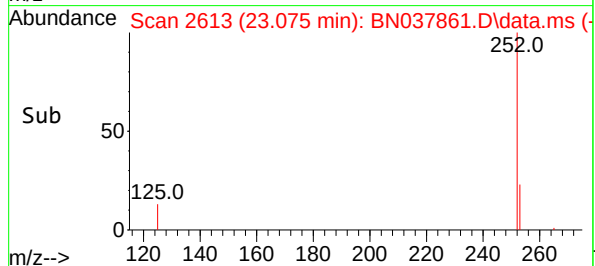
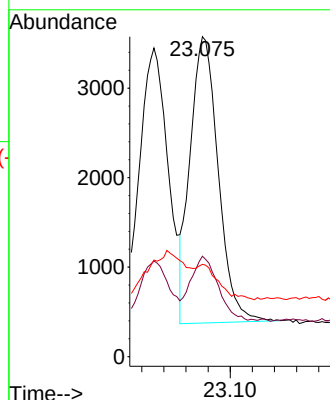
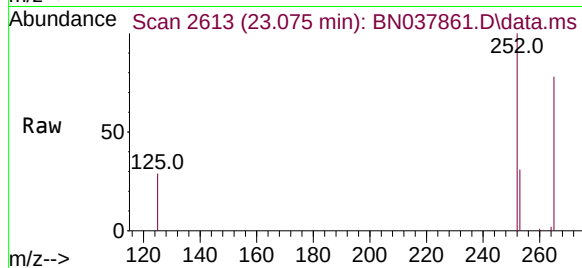
Tgt Ion:252 Resp: 5642

Ion Ratio Lower Upper

252 100

253 31.4 19.5 29.3#

125 28.8 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

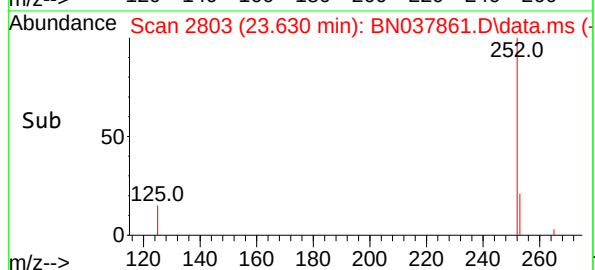
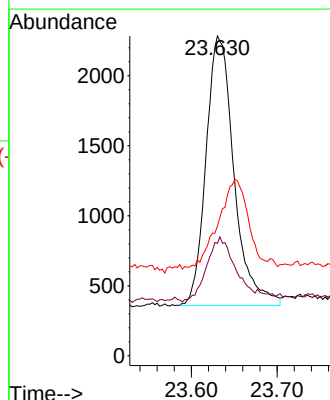
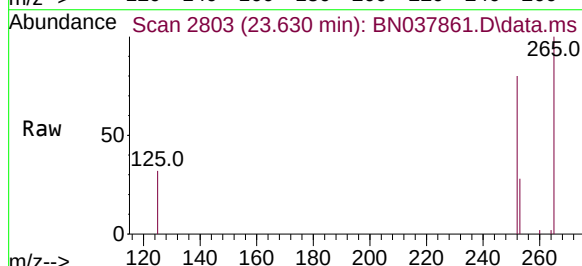
Tgt Ion:252 Resp: 4368

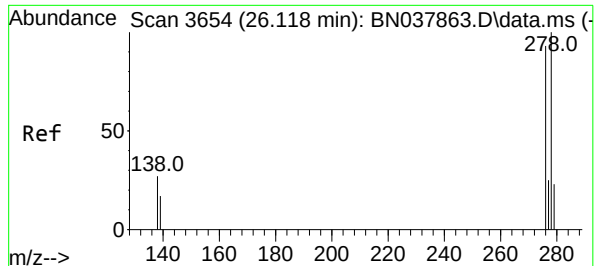
Ion Ratio Lower Upper

252 100

253 35.2 20.6 30.8#

125 40.6 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.127 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

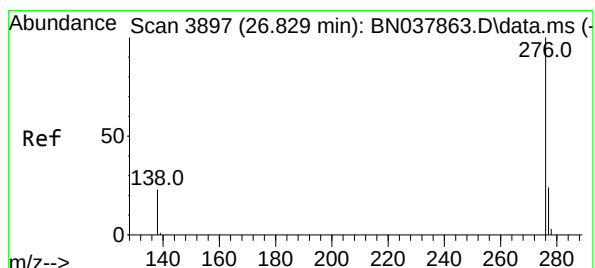
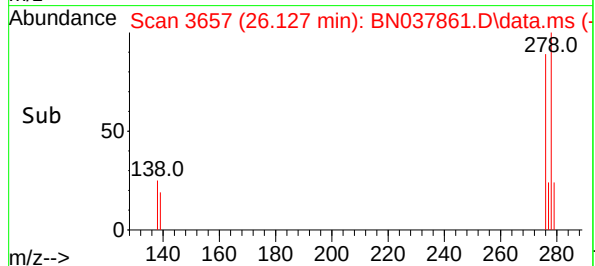
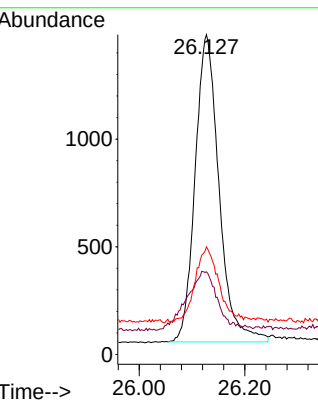
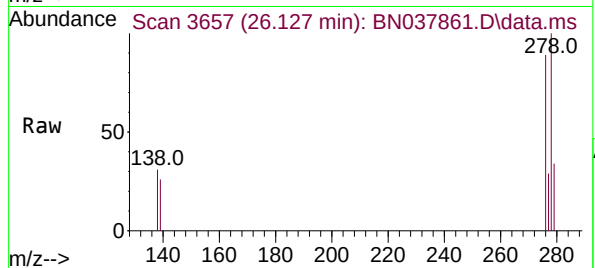
Tgt Ion:278 Resp: 4476

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 33.7 20.8 31.2#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.832 min Scan# 3898

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

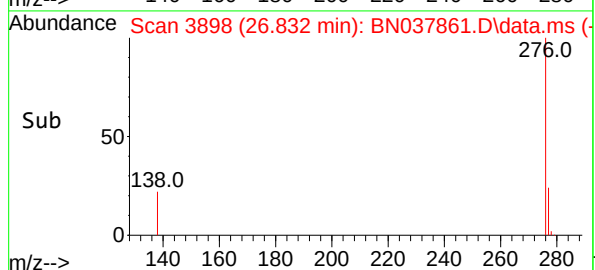
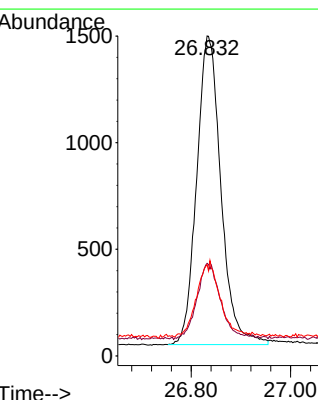
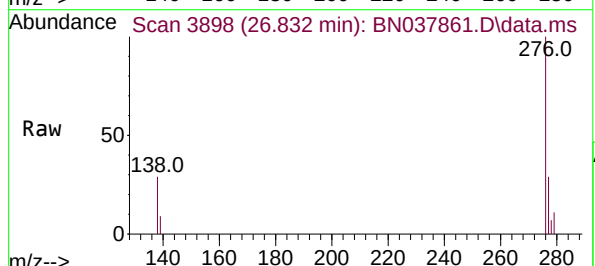
Tgt Ion:276 Resp: 4900

Ion Ratio Lower Upper

276 100

277 28.9 20.2 30.4

138 28.5 19.8 29.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

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

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

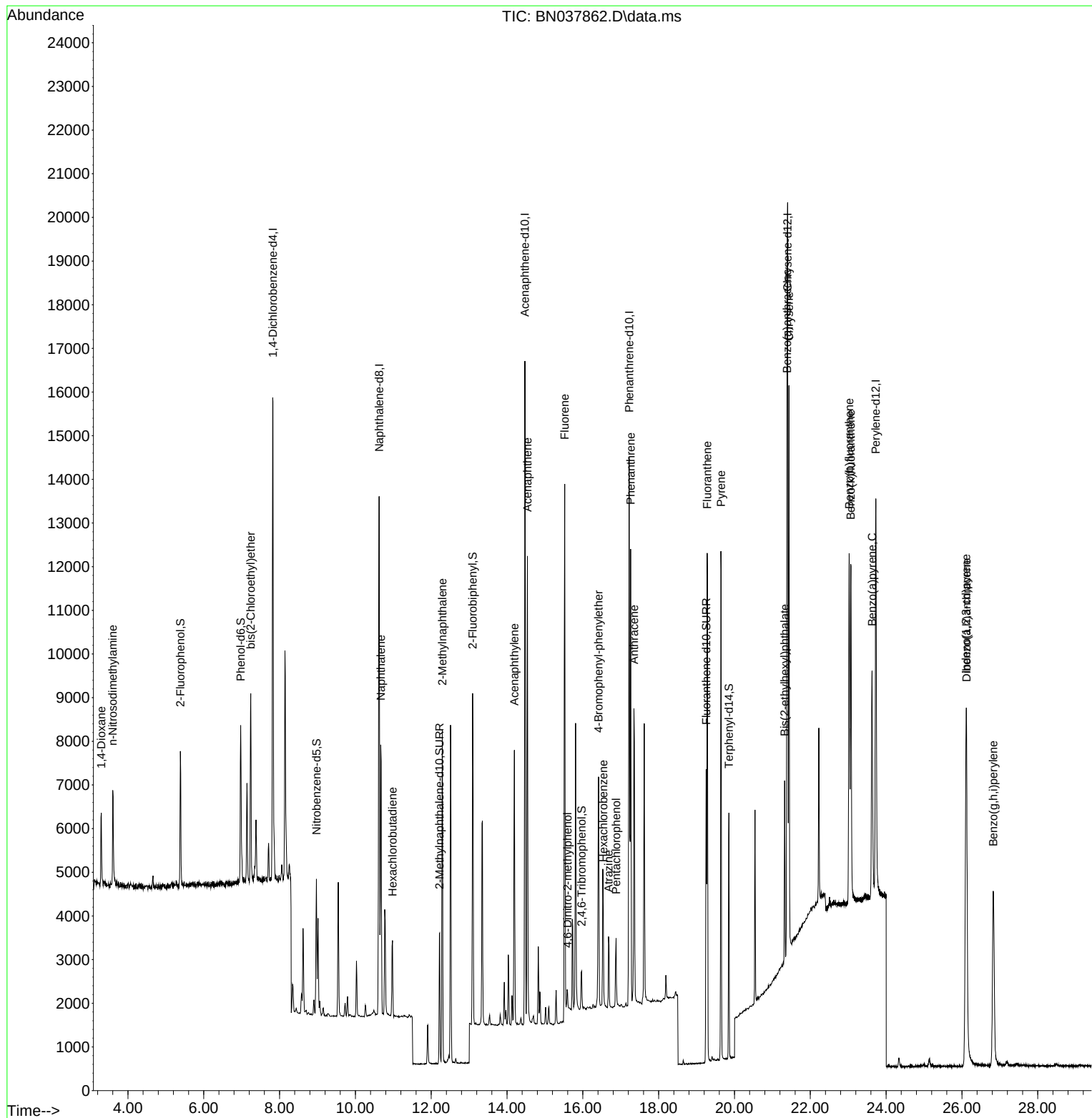
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13158	0.400	ng	0.00
35) Perylene-d12	23.730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

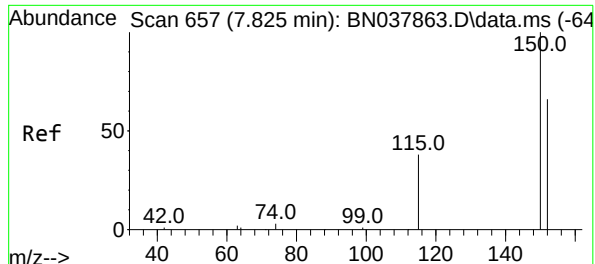
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

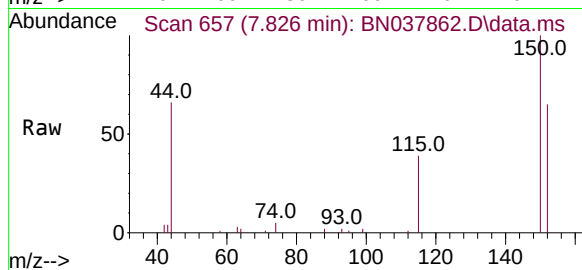
Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



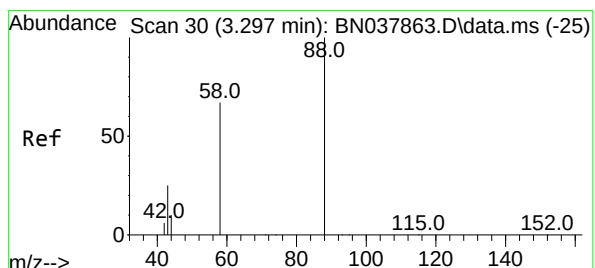
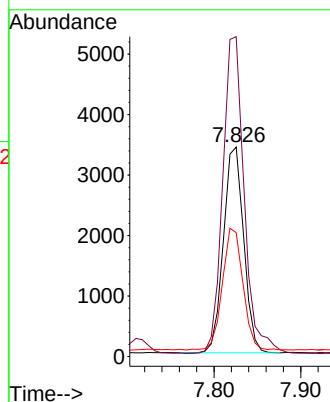
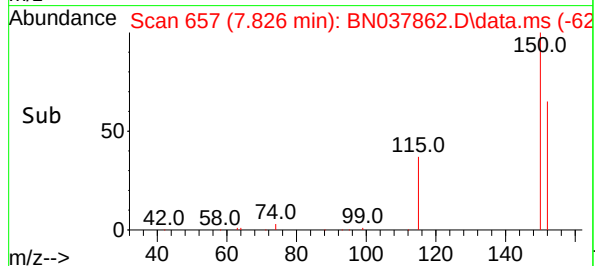


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

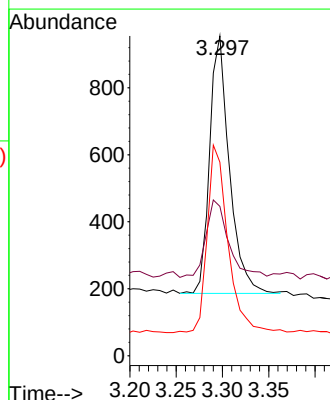
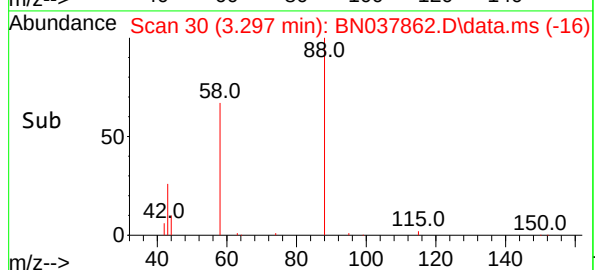
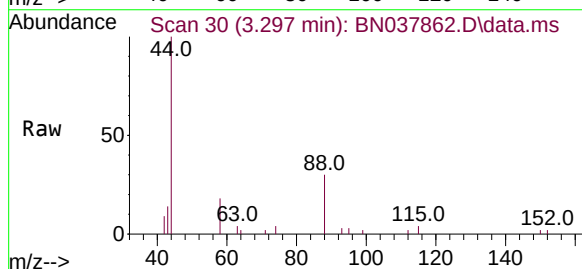


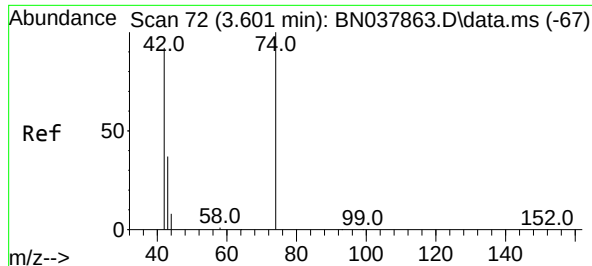
Tgt Ion:152 Resp: 5544
Ion Ratio Lower Upper
152 100
150 152.7 121.0 181.4
115 59.1 47.4 71.0



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

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

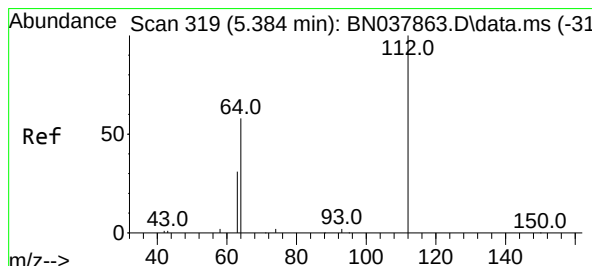
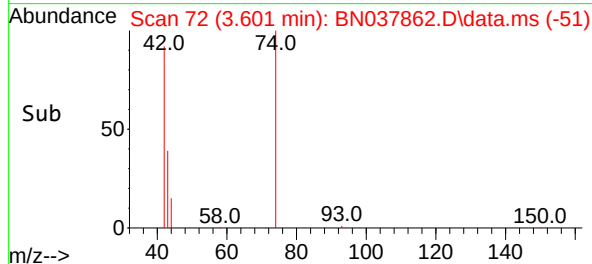
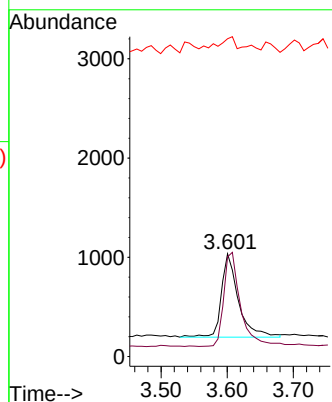
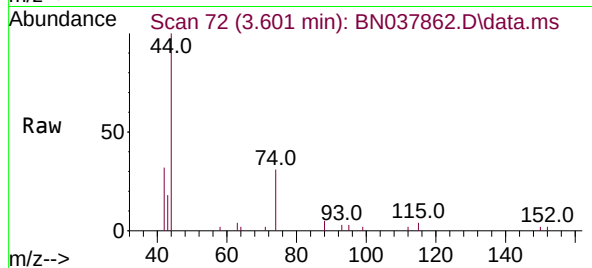




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

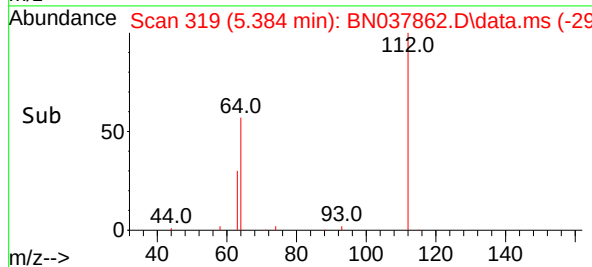
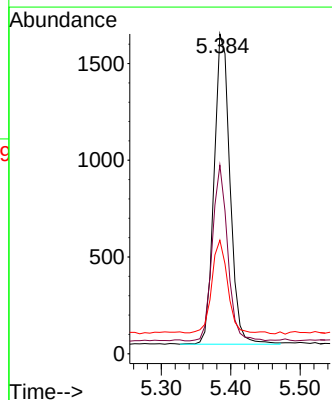
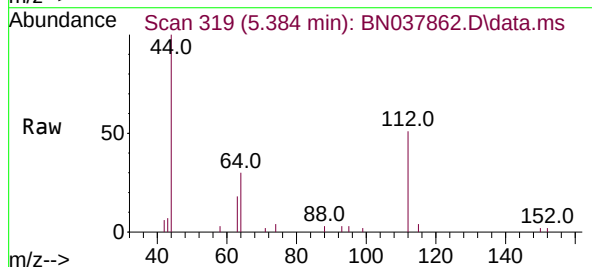
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

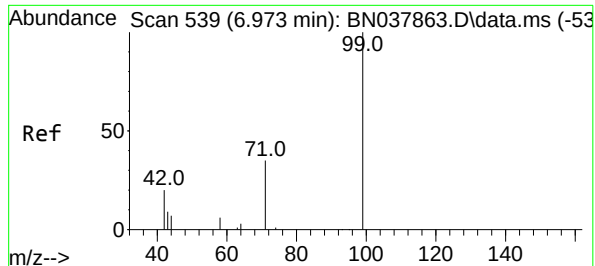
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 112.1 93.4 140.0
44 20.9 22.2 33.4#



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

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

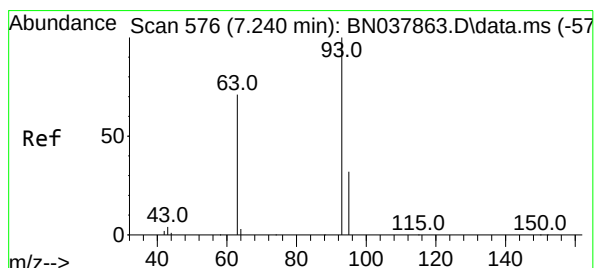
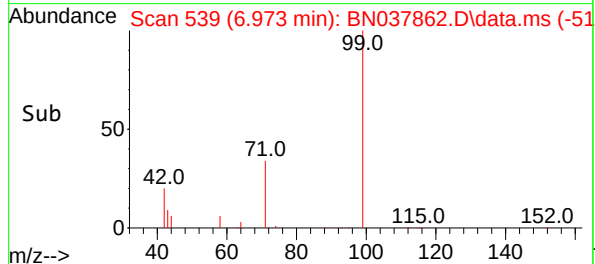
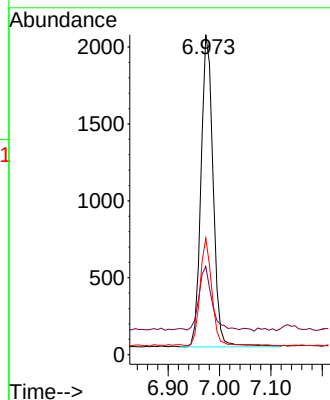
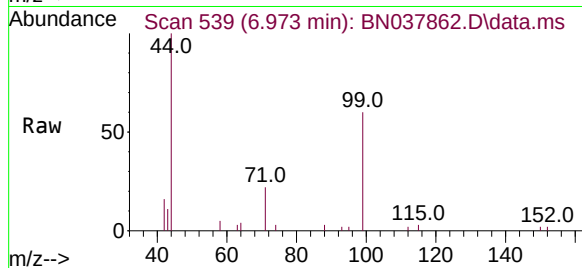




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

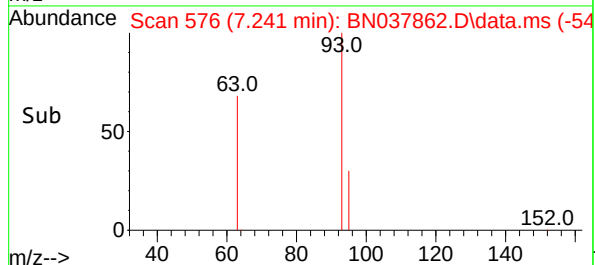
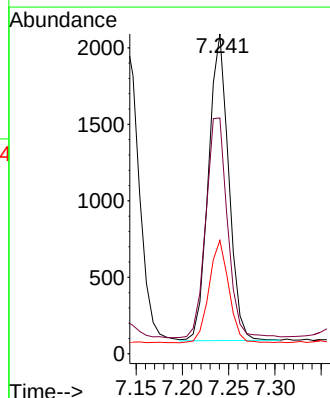
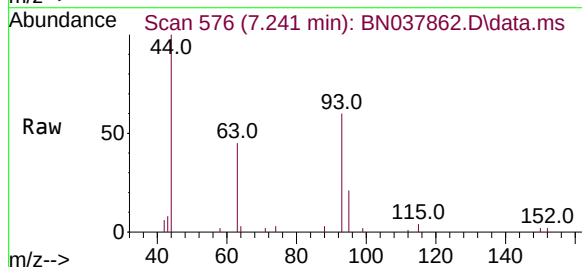
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

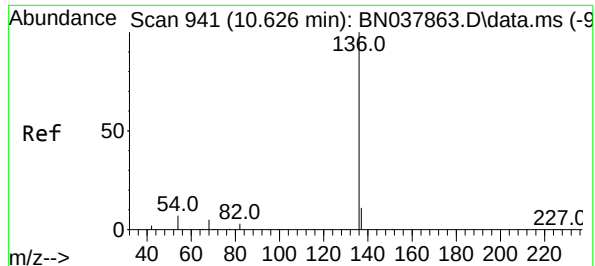
Tgt Ion:	99	Resp:	3326
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9



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

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

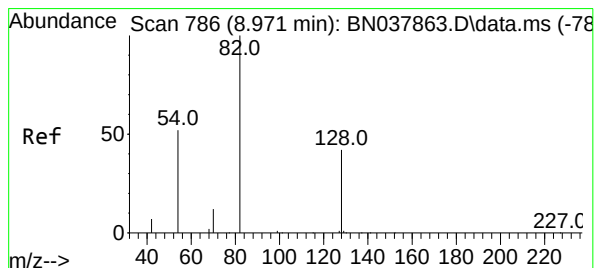
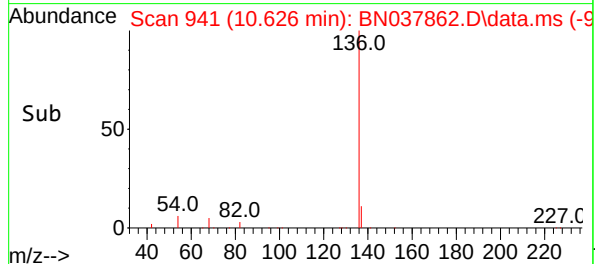
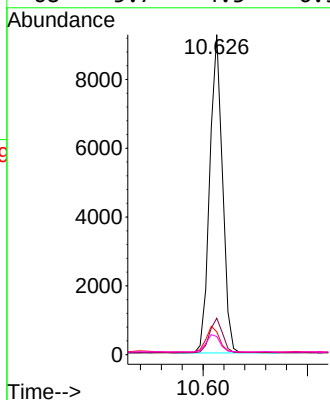
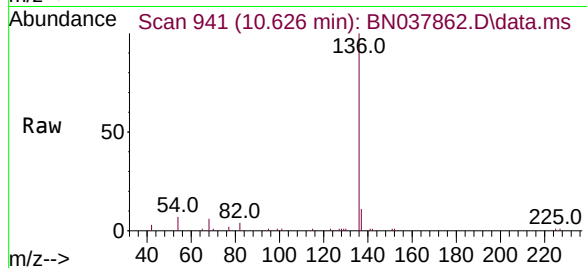




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

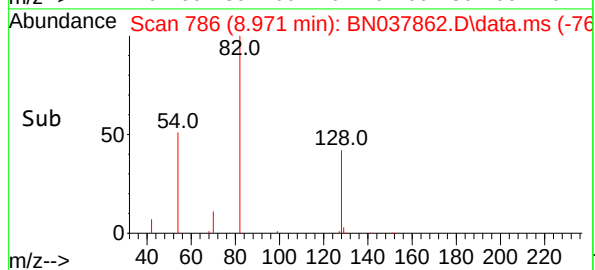
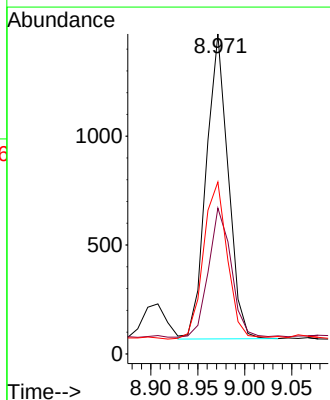
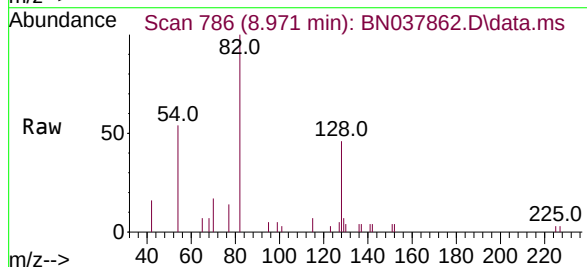
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

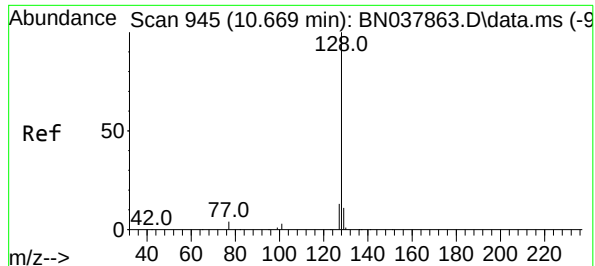
Tgt Ion:	136	Resp:	15739
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5



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

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

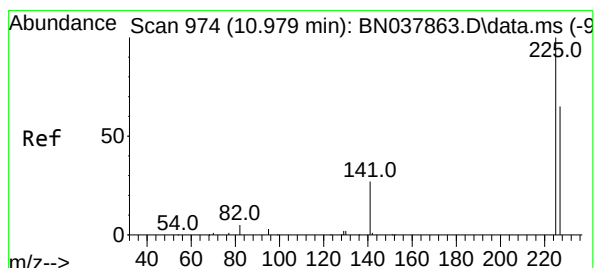
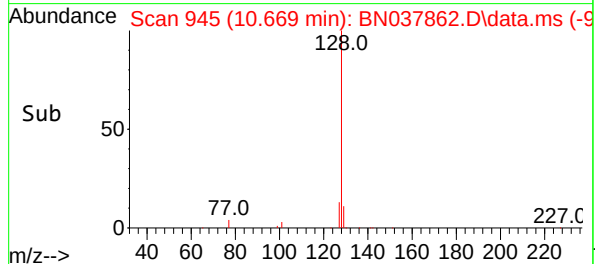
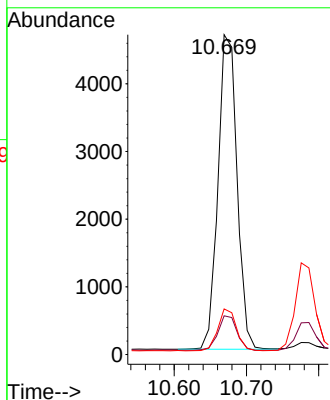
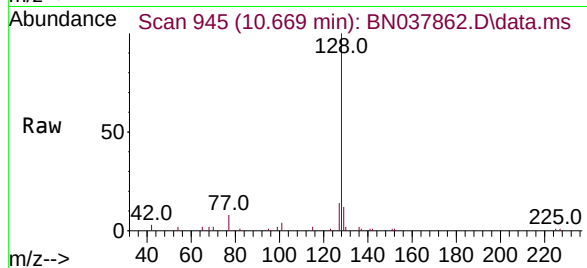




#9
Naphthalene
Concen: 0.198 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

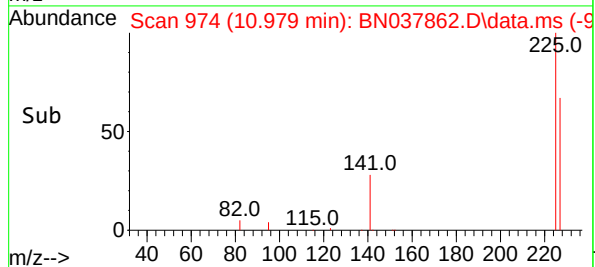
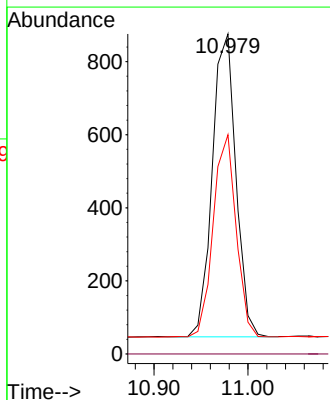
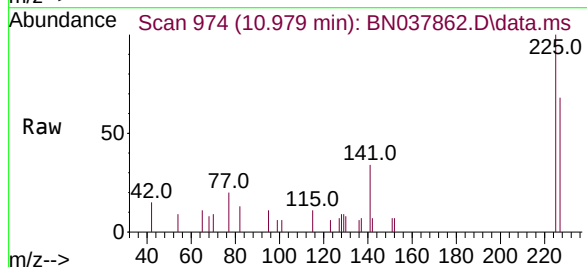
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

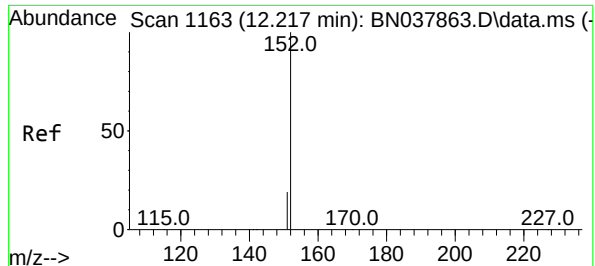
Tgt Ion	128	129	127
Resp:	8573		
Ion Ratio	100	12.1	14.3
Lower		9.2	11.0
Upper		13.8	16.6



#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

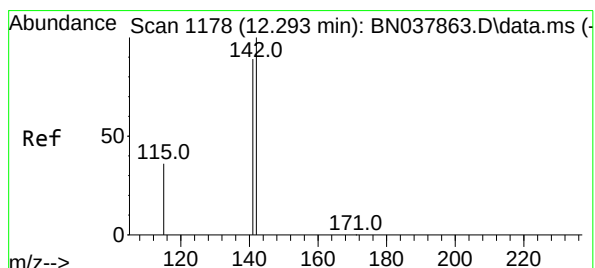
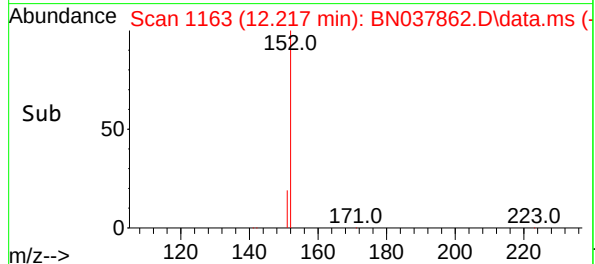
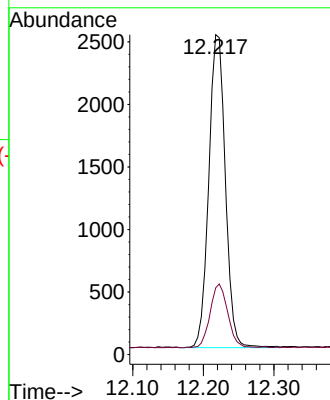
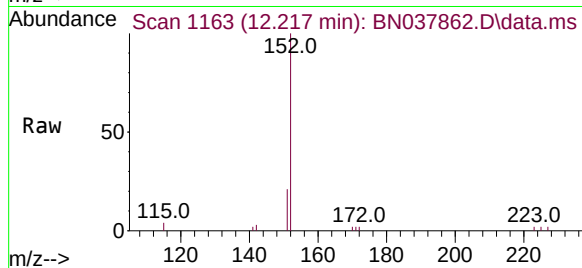




#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

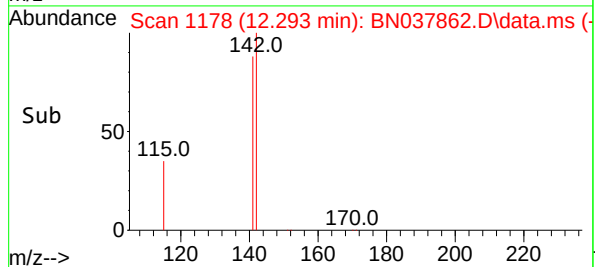
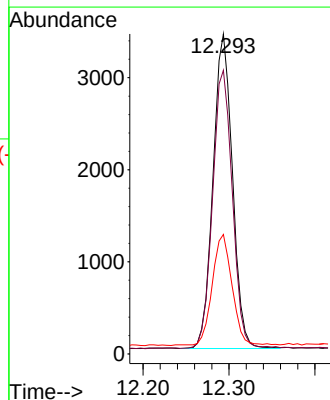
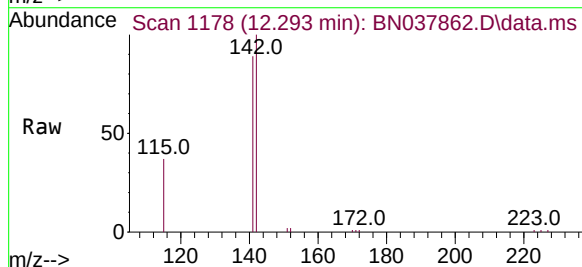
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

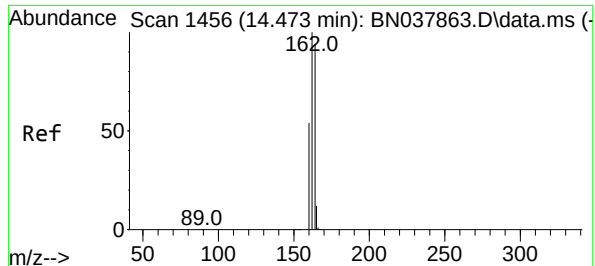
Tgt Ion:152 Resp: 4078
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#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

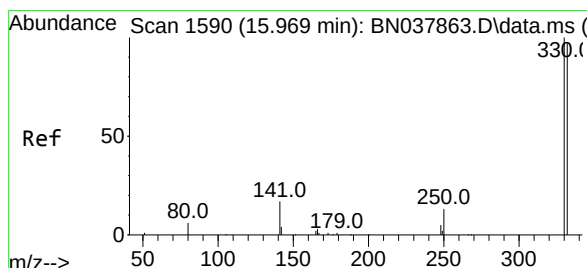
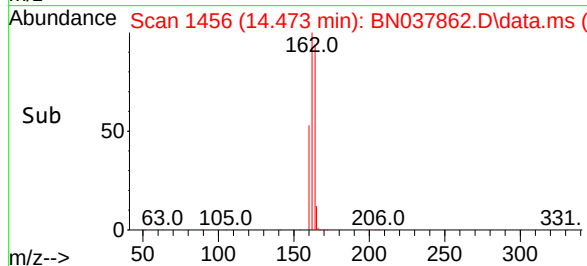
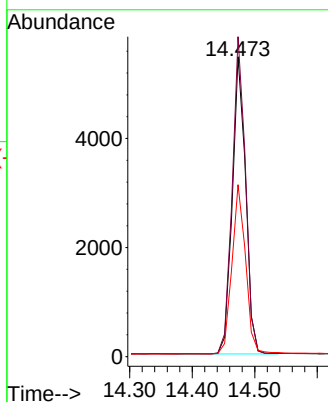
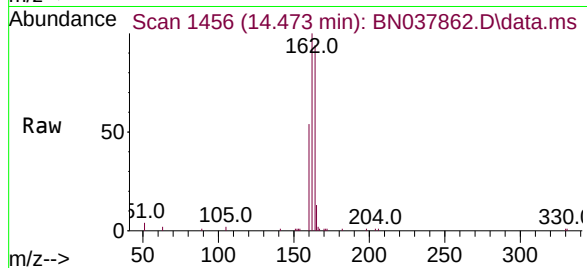
Tgt Ion:164 Resp: 8069

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

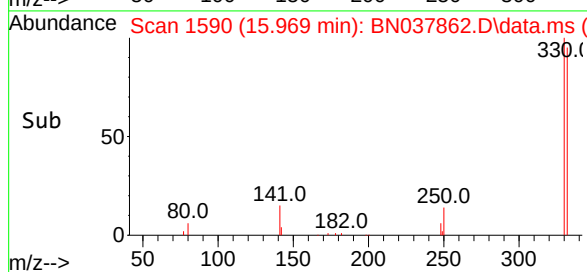
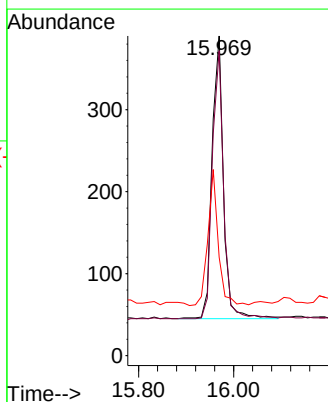
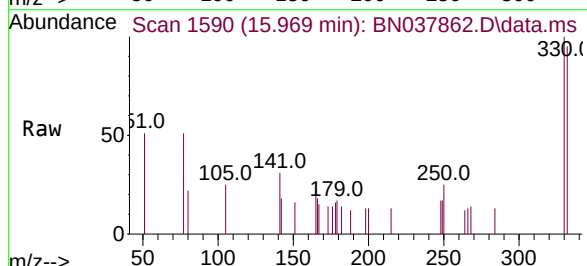
Tgt Ion:330 Resp: 573

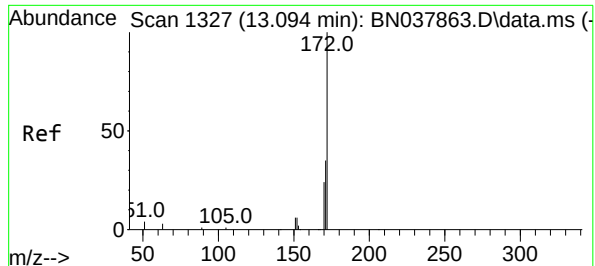
Ion Ratio Lower Upper

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

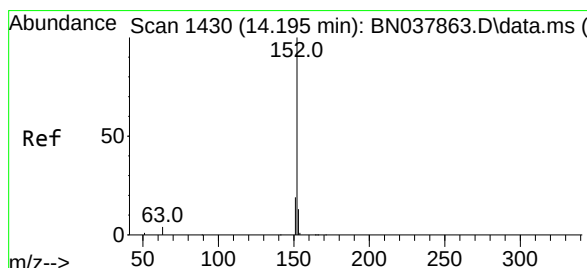
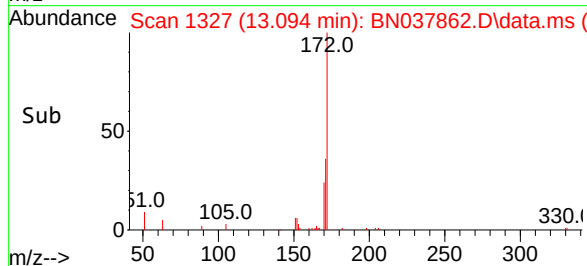
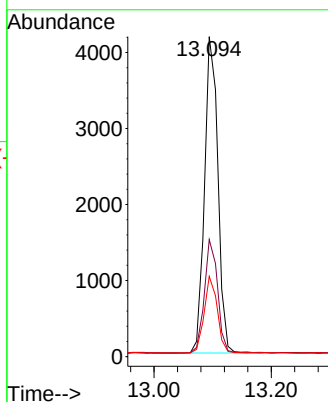
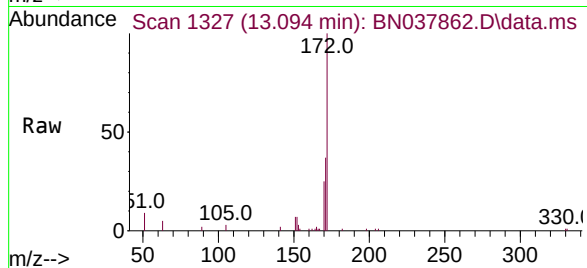
Tgt Ion:172 Resp: 6579

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

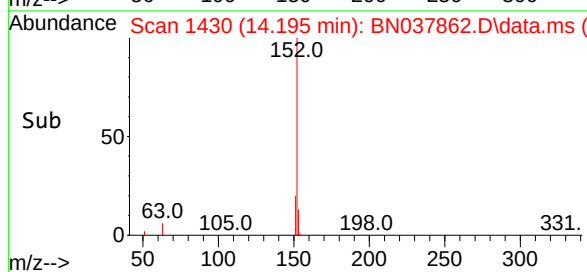
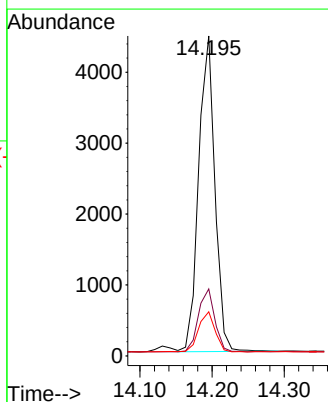
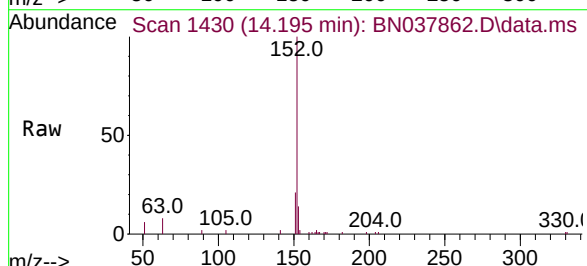
Tgt Ion:152 Resp: 6943

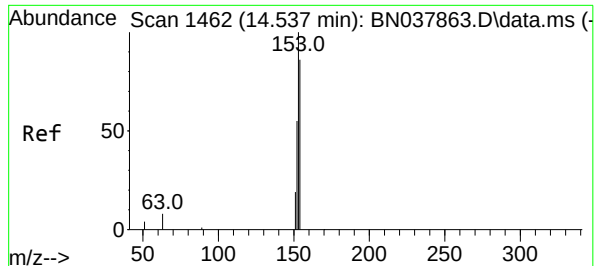
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 13.1 10.5 15.7

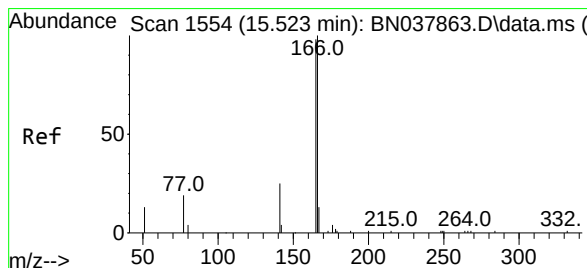
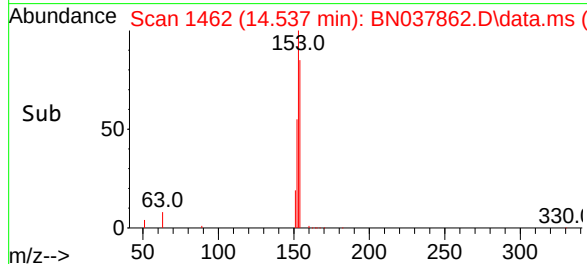
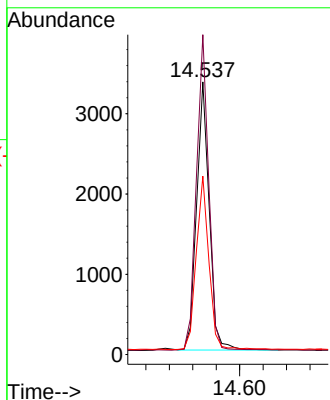
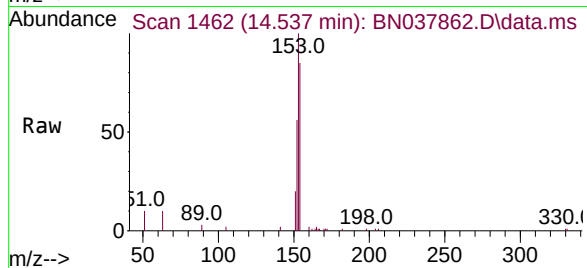




#17
Acenaphthene
Concen: 0.190 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

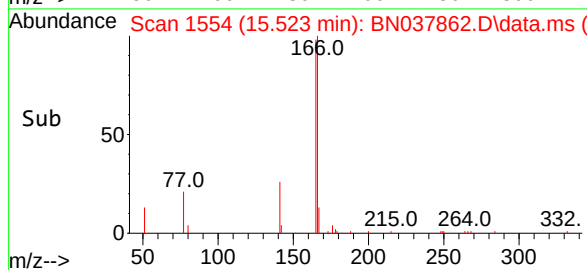
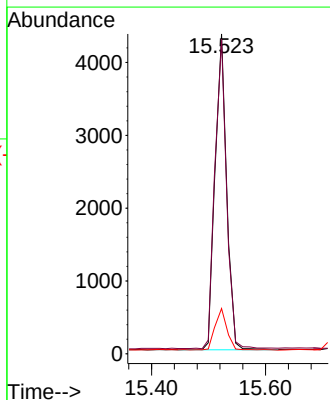
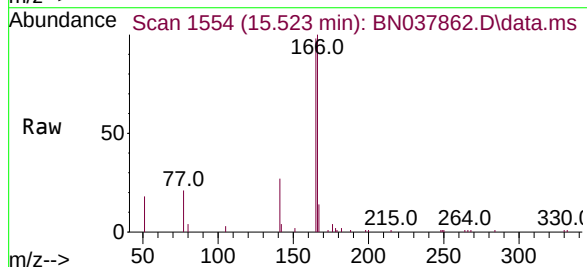
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

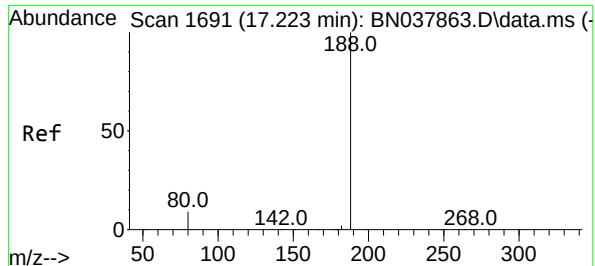
Tgt Ion	154	Resp	4963
Ion Ratio	Lower	Upper	
154	100		
153	115.4	90.5	135.7
152	65.5	51.8	77.8



#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

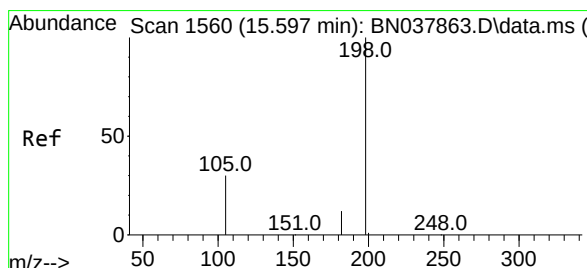
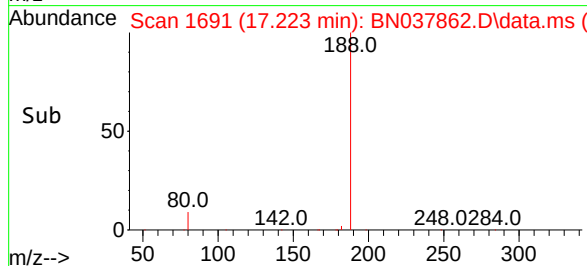
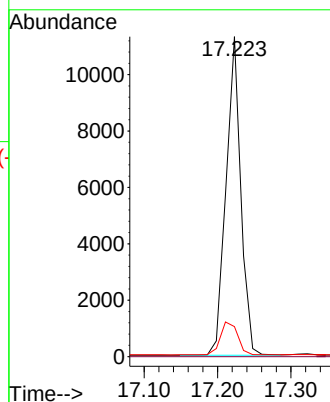
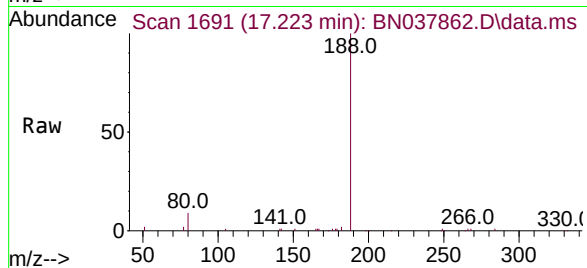
Tgt Ion:188 Resp: 15912

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

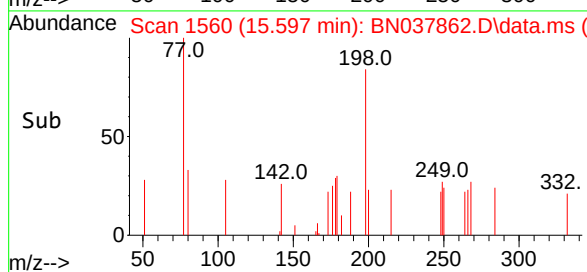
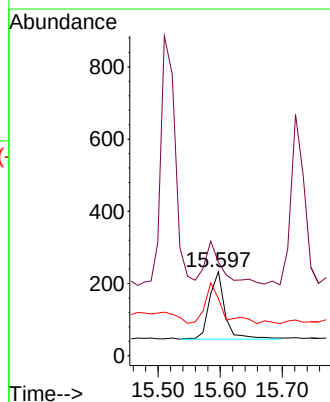
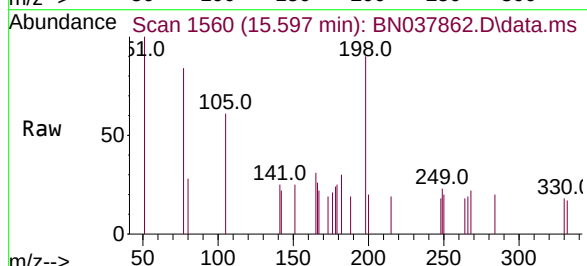
Tgt Ion:198 Resp: 325

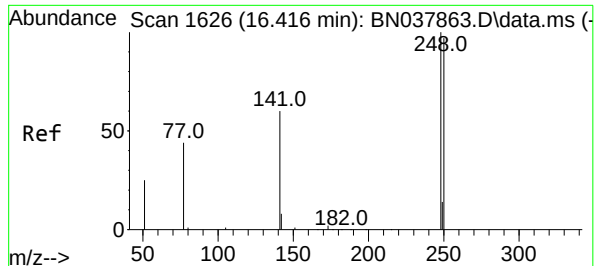
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#

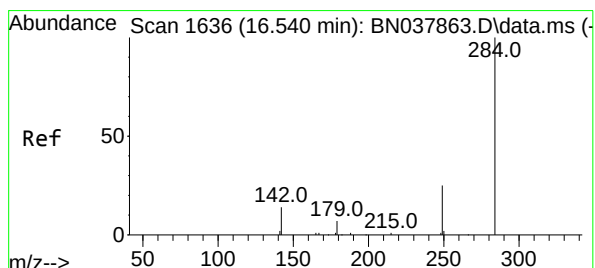
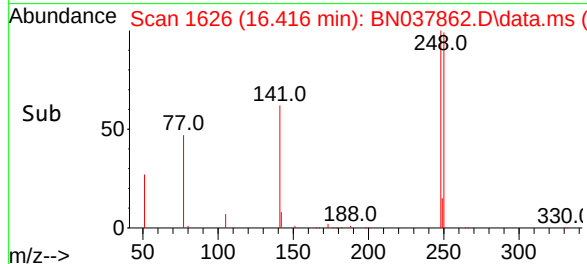
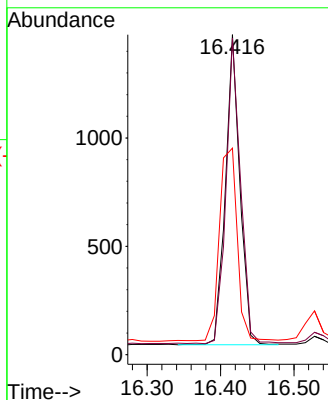
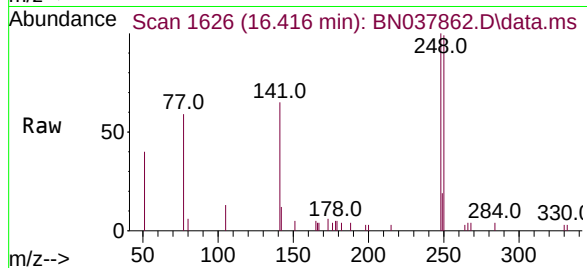




#21
4-Bromophenyl-phenylether
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

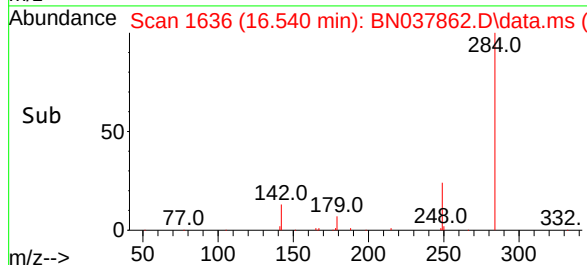
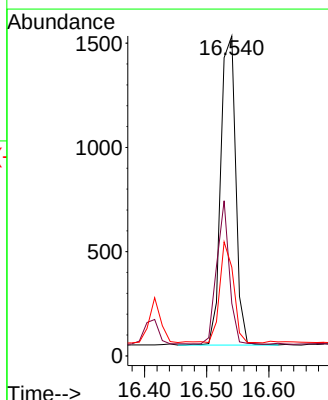
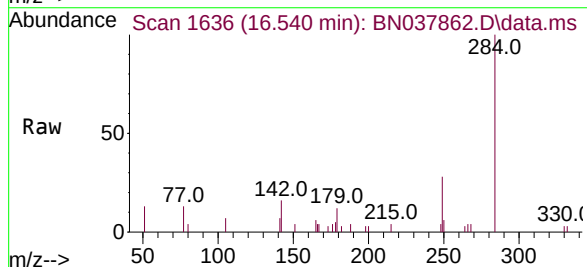
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

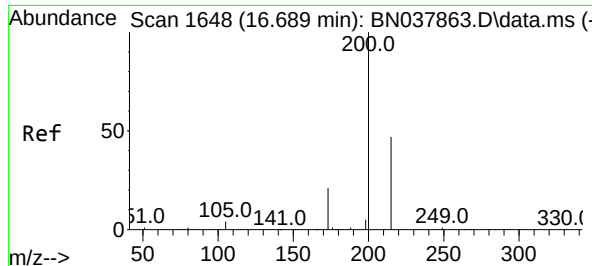
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.8	77.6	116.4
141	64.5	48.8	73.2



#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

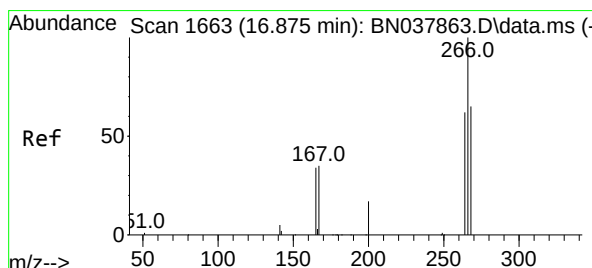
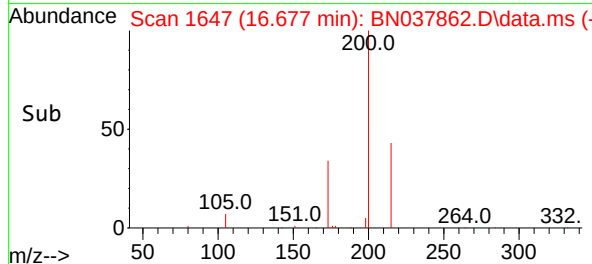
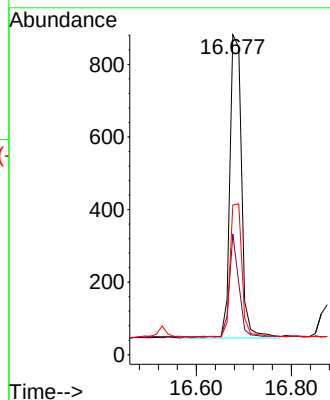
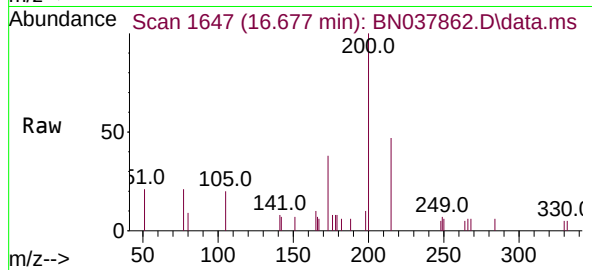




#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

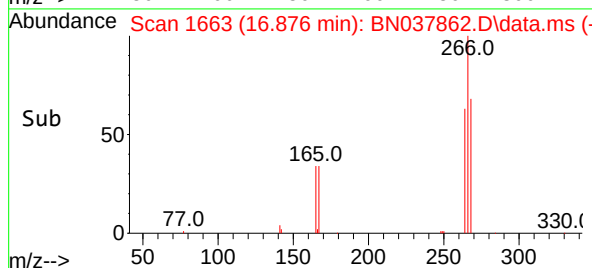
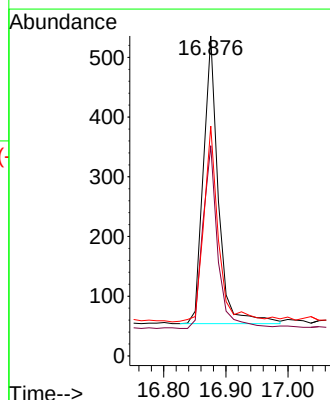
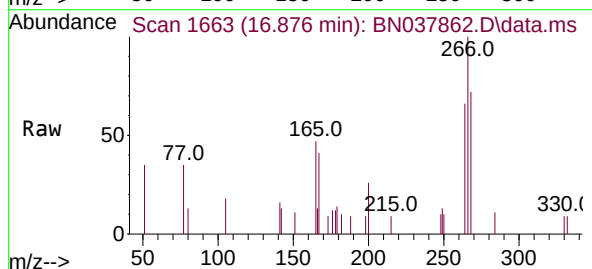
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

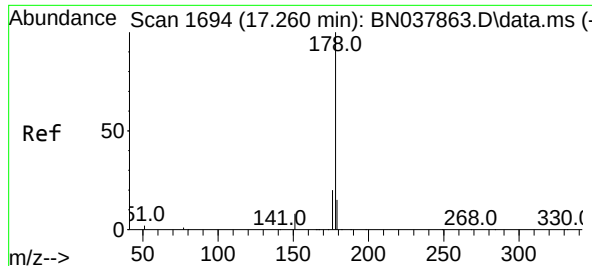
Tgt Ion:200 Resp: 1442
Ion Ratio Lower Upper
200 100
173 37.6 18.3 27.5#
215 46.8 38.6 58.0



#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

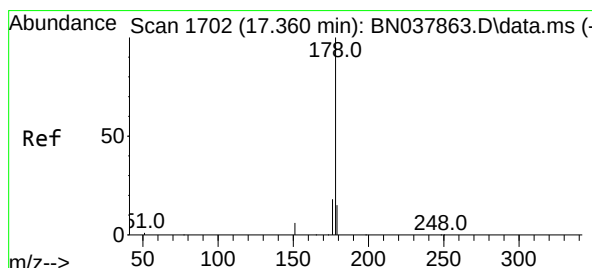
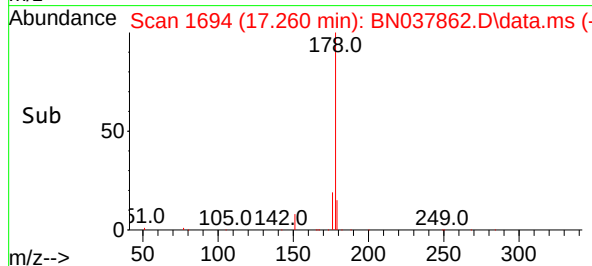
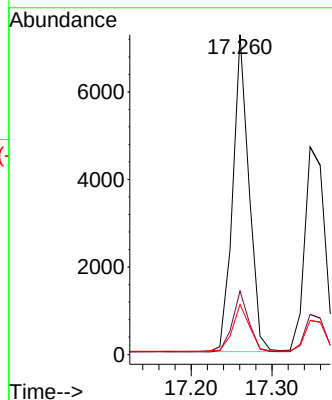
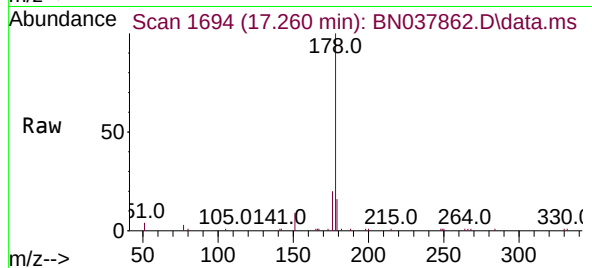
Tgt Ion:178 Resp: 10109

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

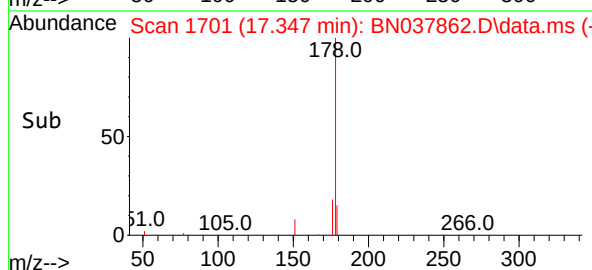
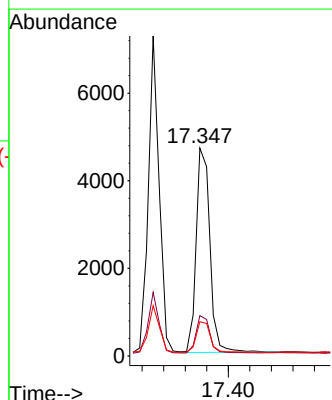
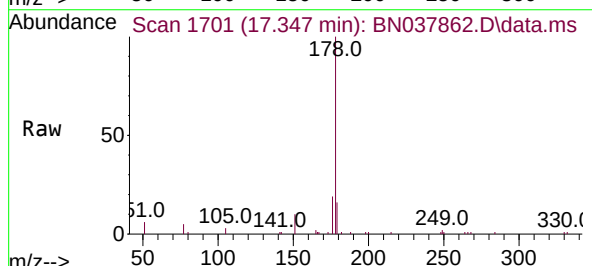
Tgt Ion:178 Resp: 8235

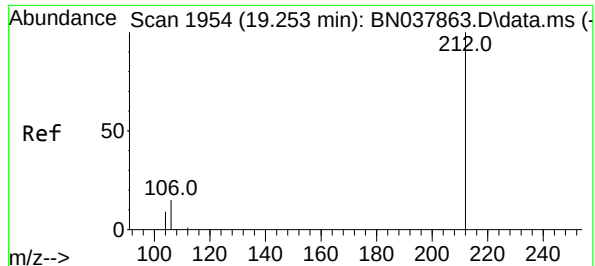
Ion Ratio Lower Upper

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

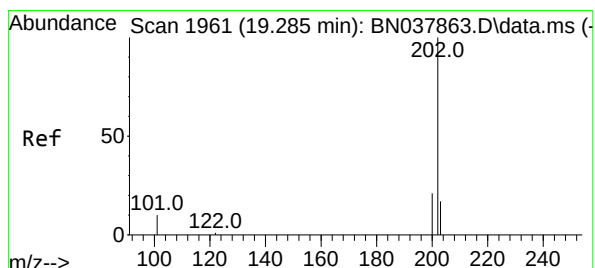
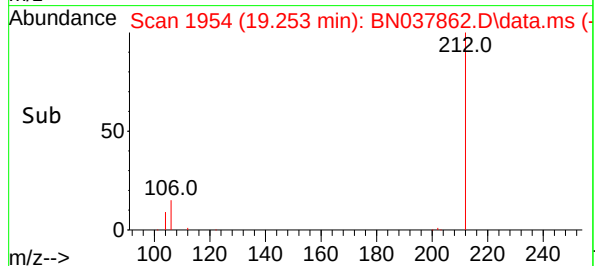
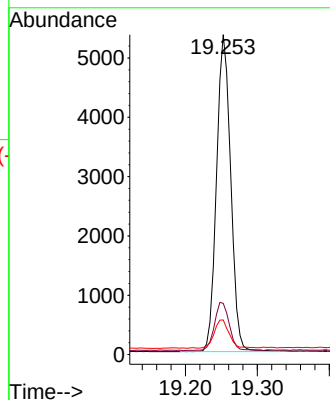
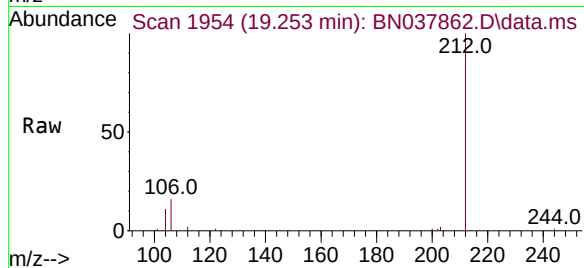
Tgt Ion:212 Resp: 7304

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

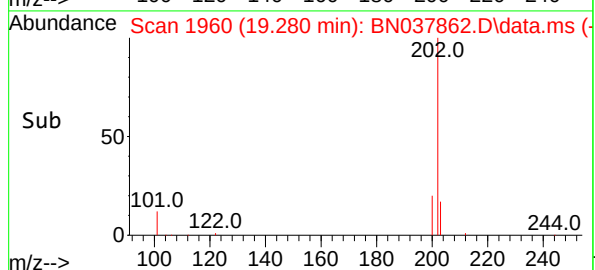
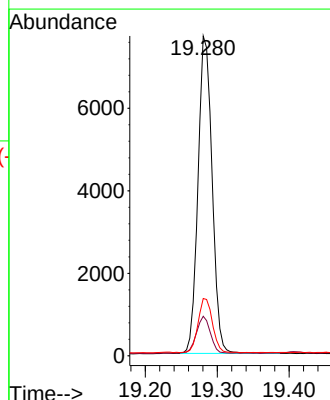
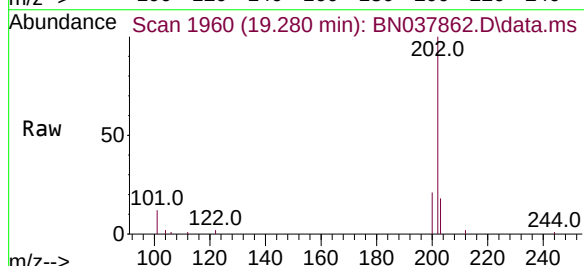
Tgt Ion:202 Resp: 10466

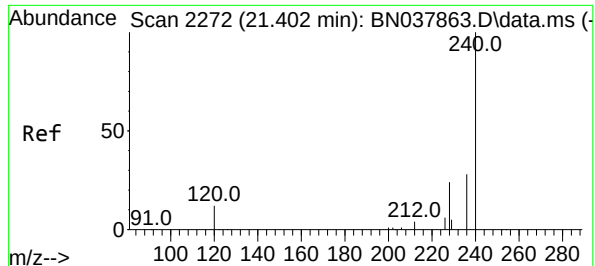
Ion Ratio Lower Upper

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

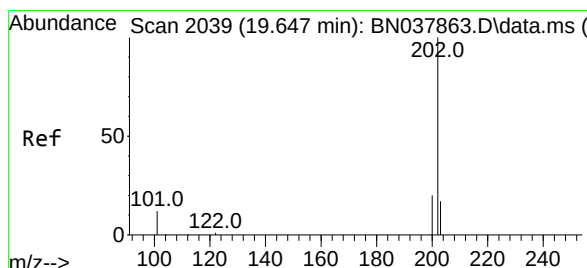
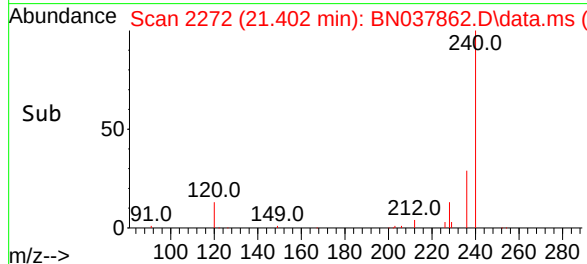
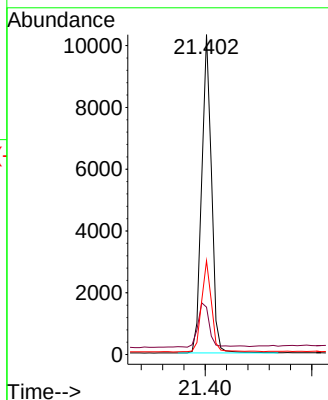
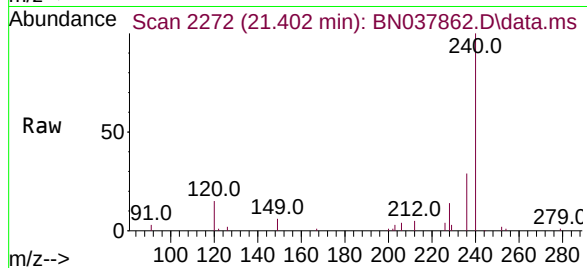
Tgt Ion:240 Resp: 13158

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

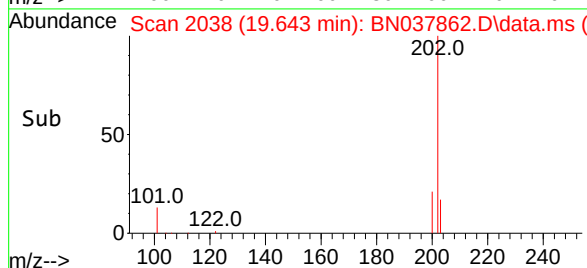
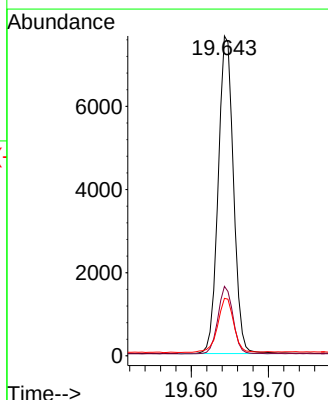
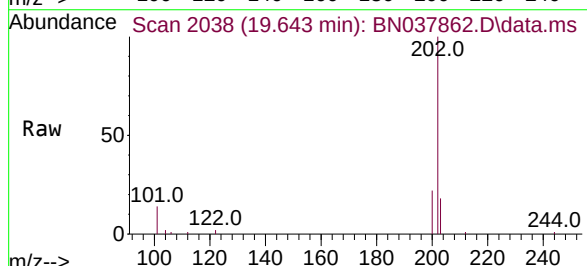
Tgt Ion:202 Resp: 10528

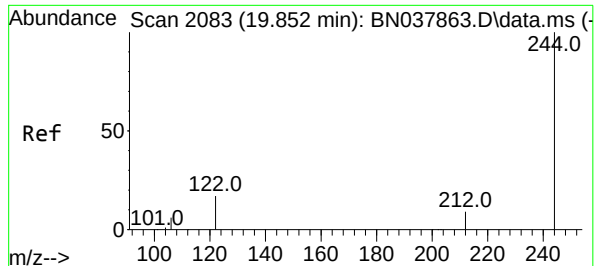
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.9 14.2 21.4

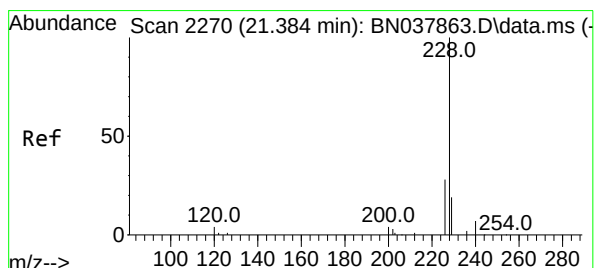
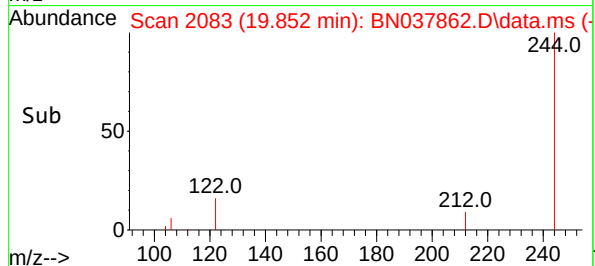
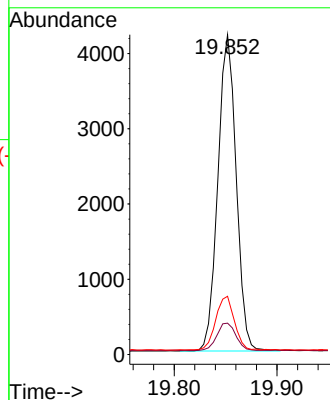
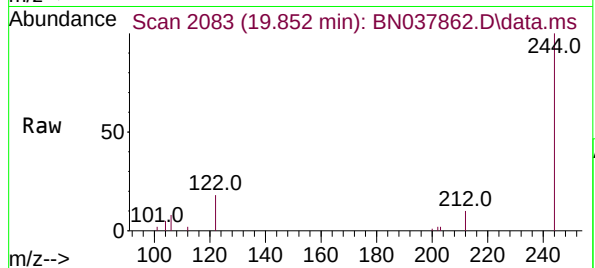




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

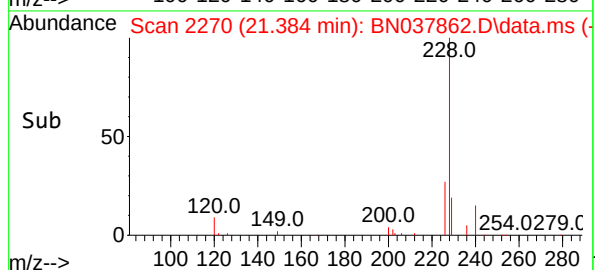
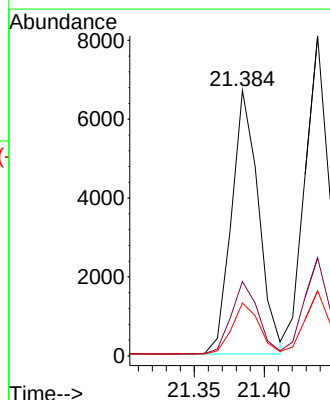
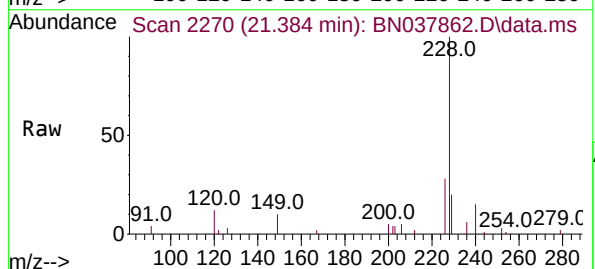
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

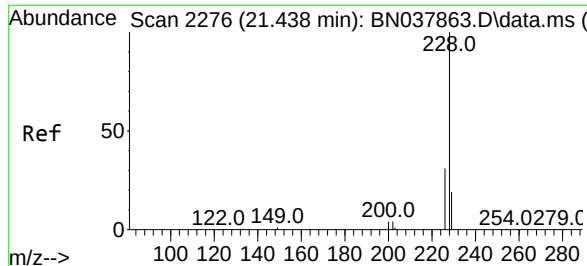
Tgt Ion:244 Resp: 5201
Ion Ratio Lower Upper
244 100
212 9.8 7.6 11.4
122 18.2 13.9 20.9



#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 :

SSTDIC0.2

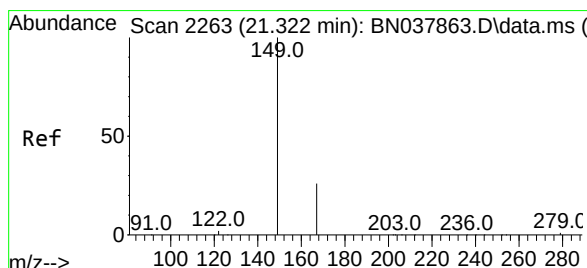
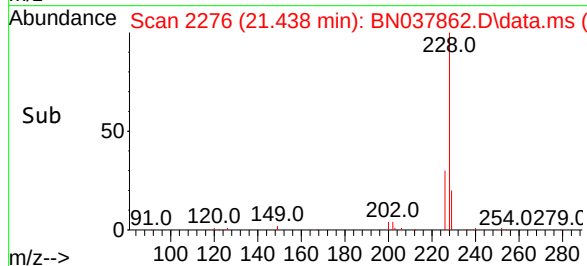
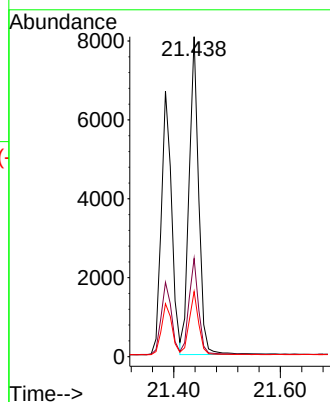
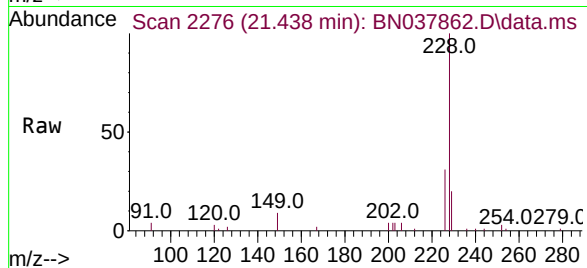
Tgt Ion:228 Resp: 10042

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 20.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.214 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

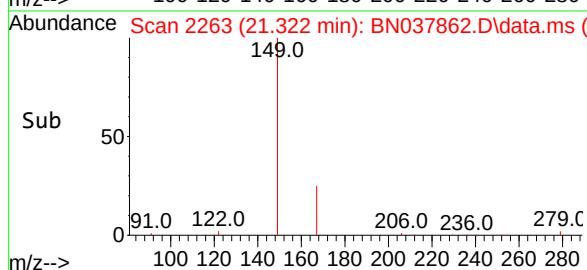
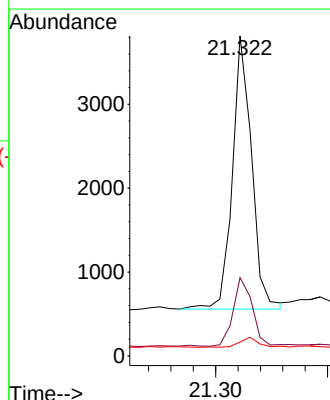
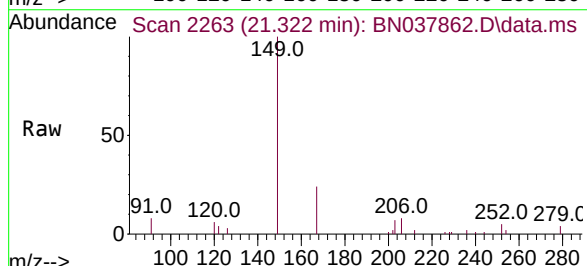
Tgt Ion:149 Resp: 3892

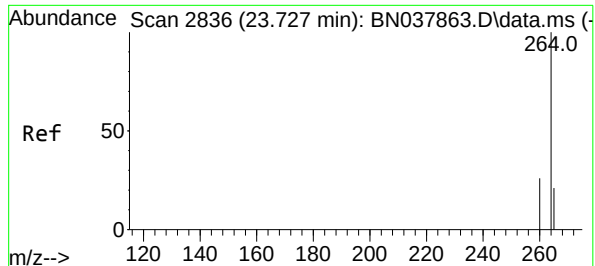
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

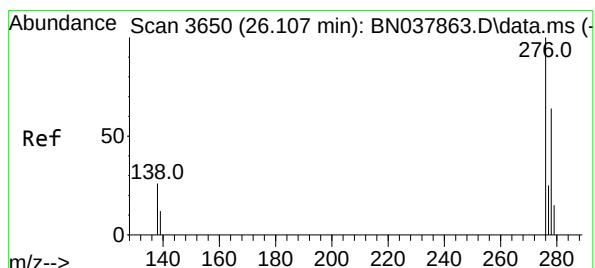
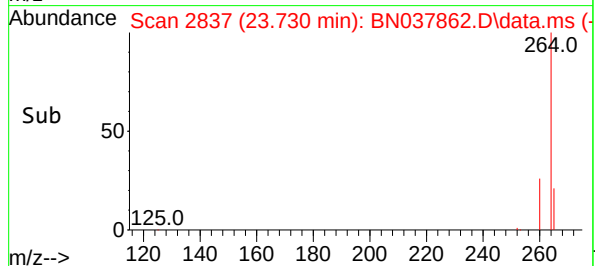
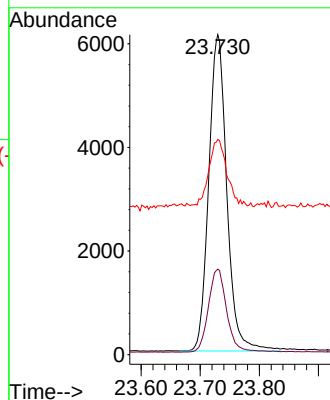
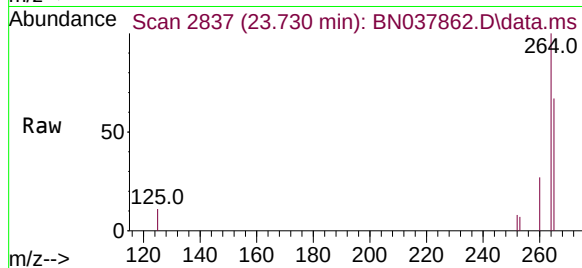
Tgt Ion:264 Resp: 12974

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 26.110 min Scan# 3651

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

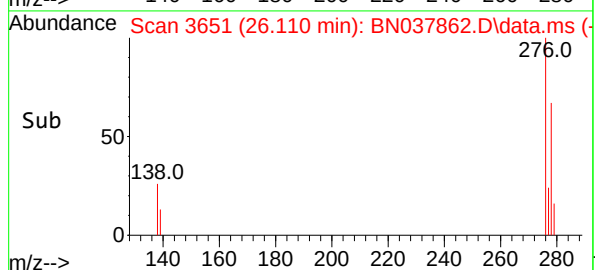
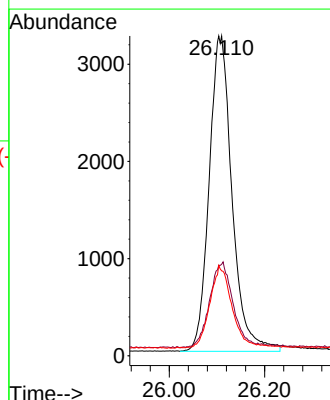
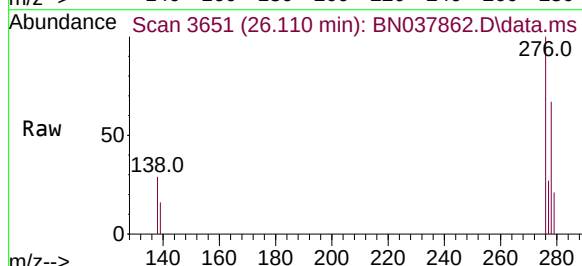
Tgt Ion:276 Resp: 10845

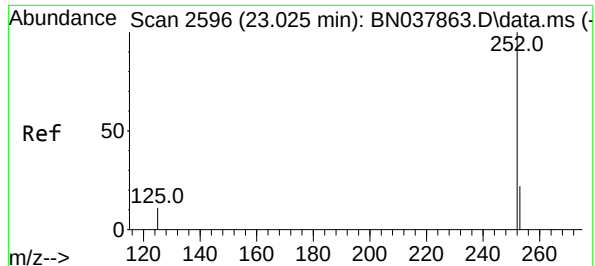
Ion Ratio Lower Upper

276 100

138 27.3 21.4 32.0

277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

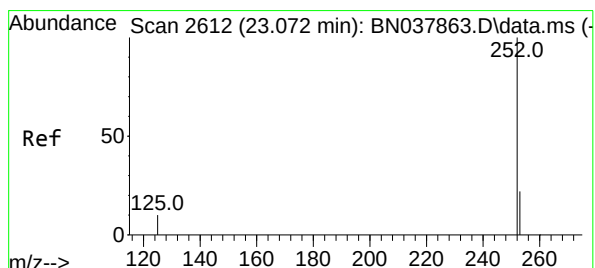
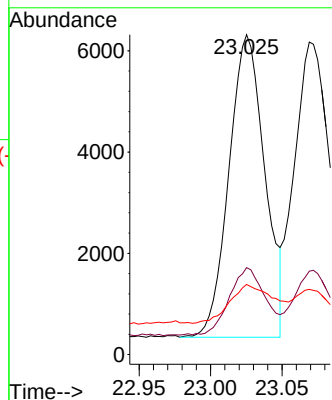
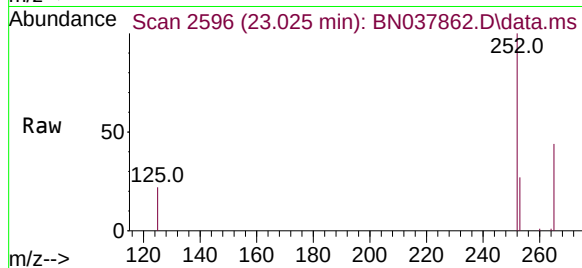
Tgt Ion:252 Resp: 10420

Ion Ratio Lower Upper

252 100

253 27.2 19.4 29.0

125 21.9 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

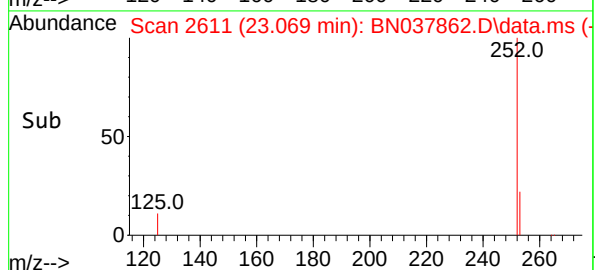
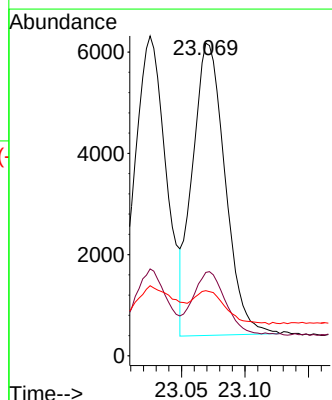
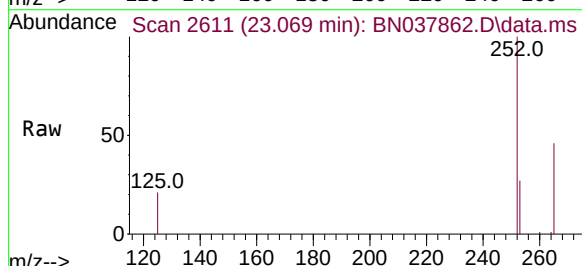
Tgt Ion:252 Resp: 10290

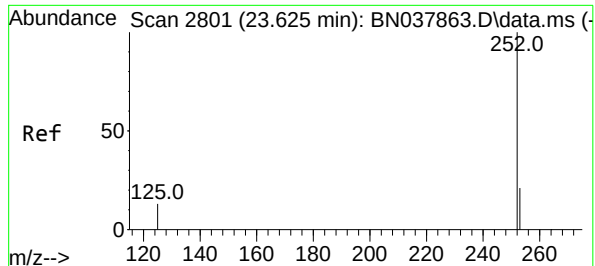
Ion Ratio Lower Upper

252 100

253 26.7 19.5 29.3

125 20.9 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

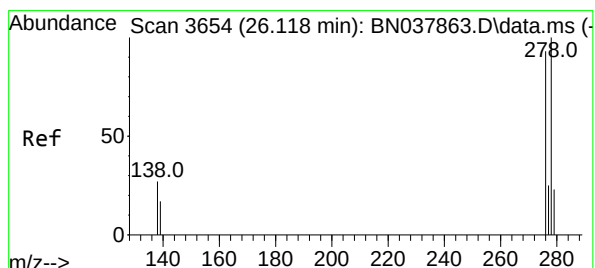
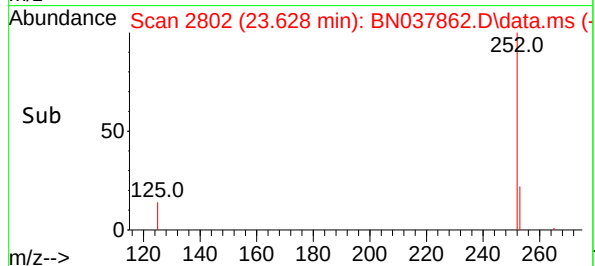
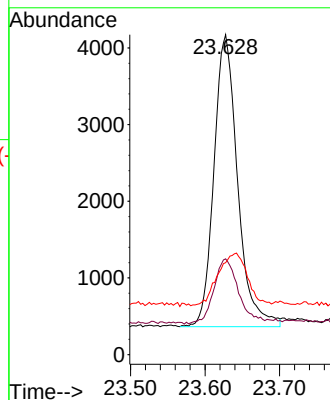
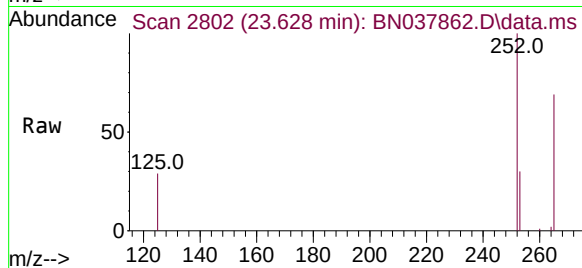
Tgt Ion:252 Resp: 8405

Ion Ratio Lower Upper

252 100

253 29.9 20.6 30.8

125 28.7 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.180 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

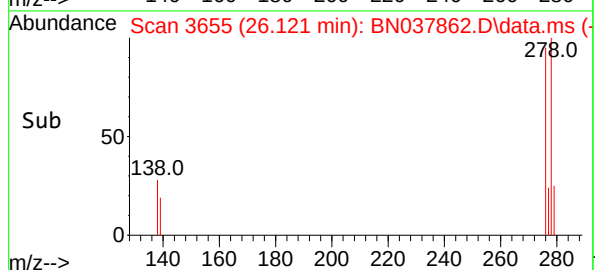
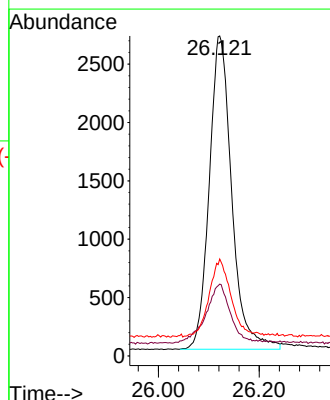
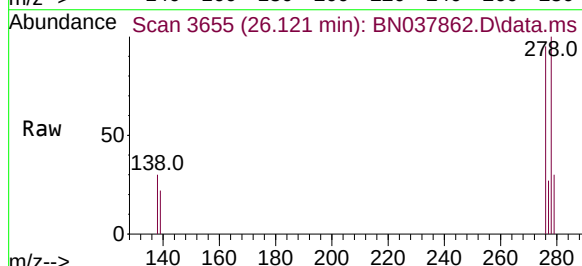
Tgt Ion:278 Resp: 8321

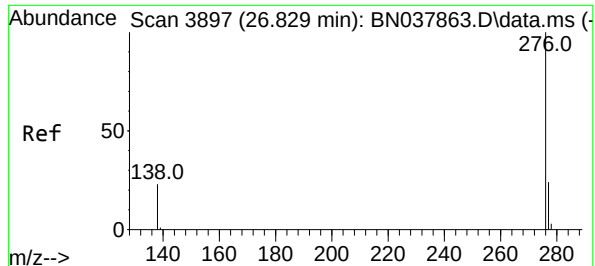
Ion Ratio Lower Upper

278 100

139 22.4 15.4 23.2

279 30.3 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037862.D

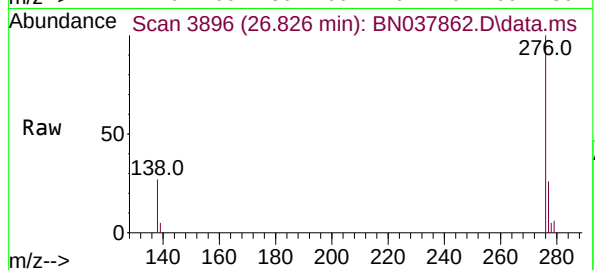
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



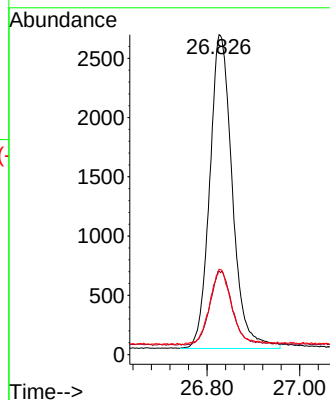
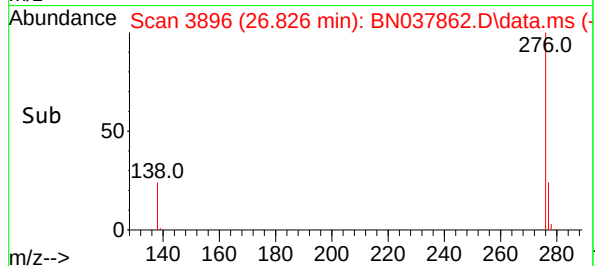
Tgt Ion:276 Resp: 8956

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.7 19.8 29.8



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

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

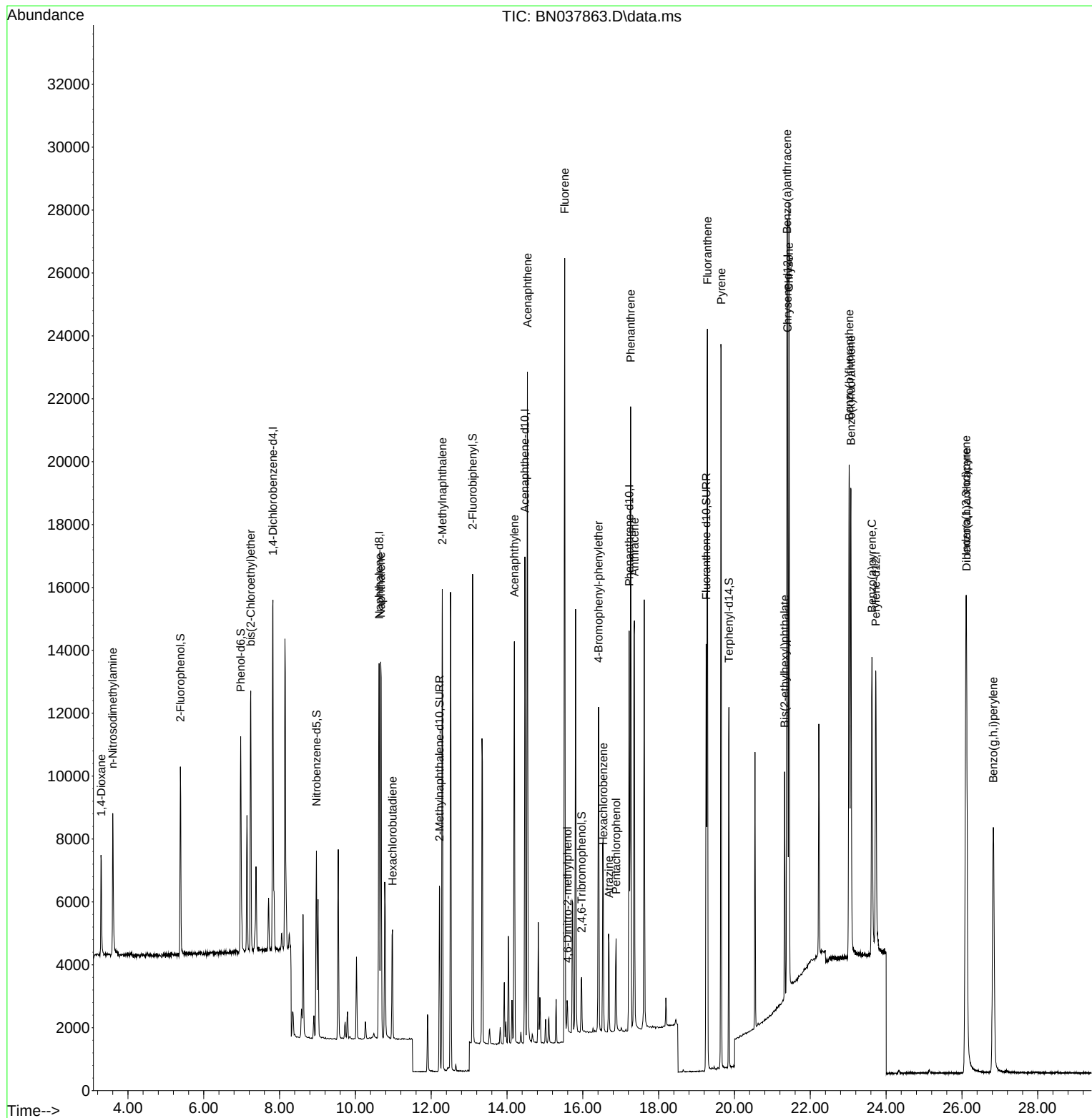
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng	0.00
29) Chrysene-d12	21.402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

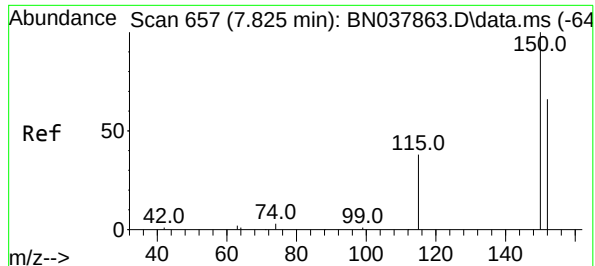
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

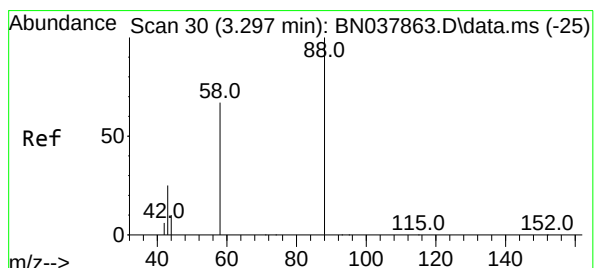
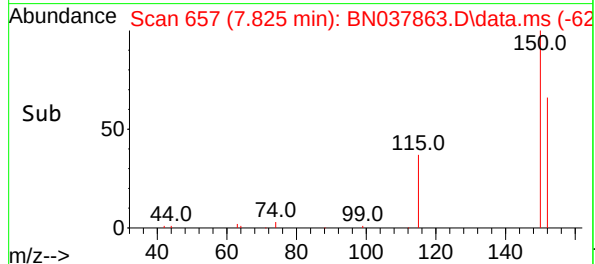
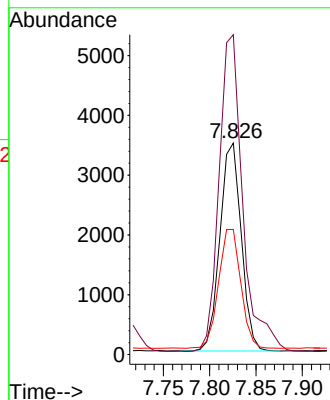
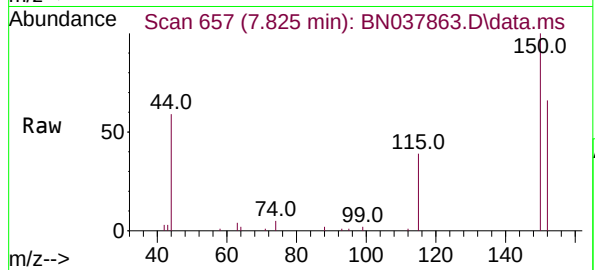




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

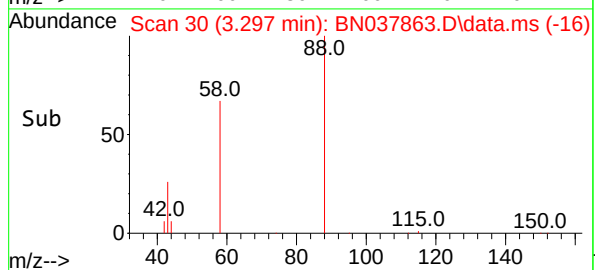
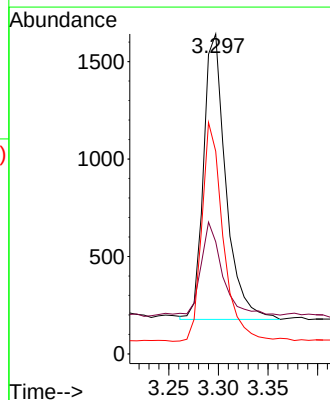
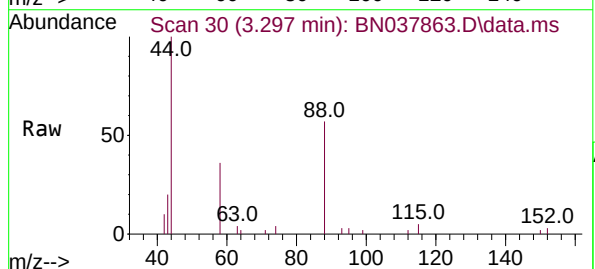
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

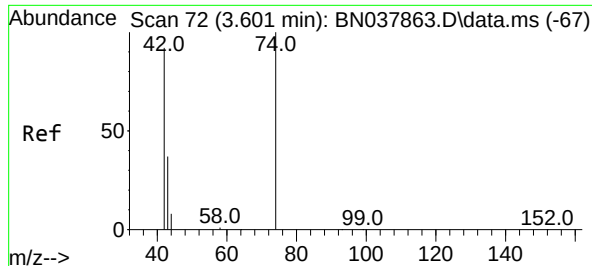
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 151.2 121.0 181.4
115 59.2 47.4 71.0



#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

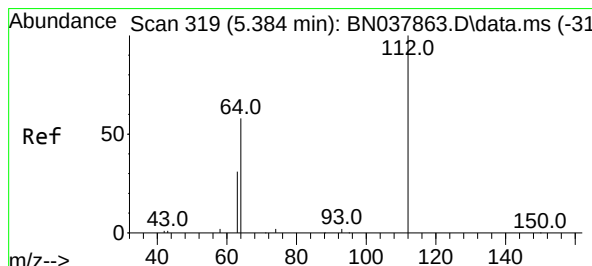
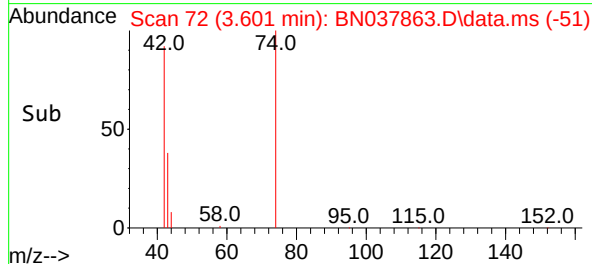
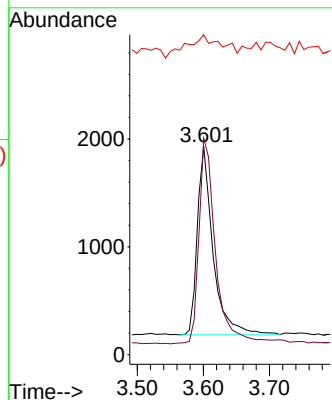
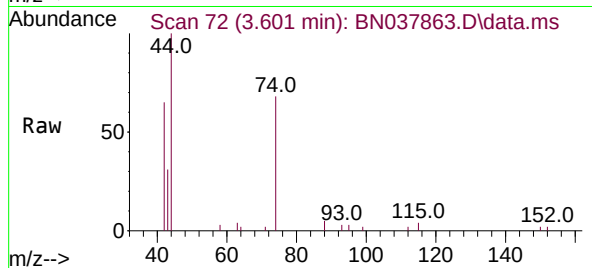




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

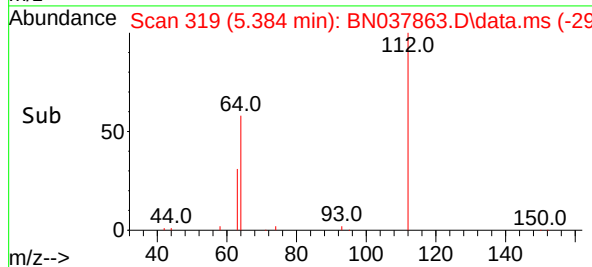
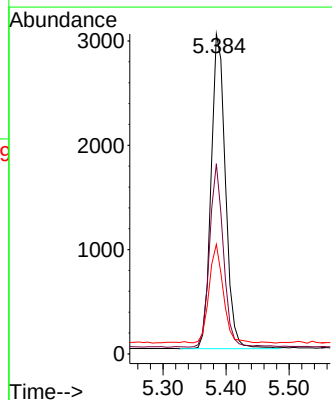
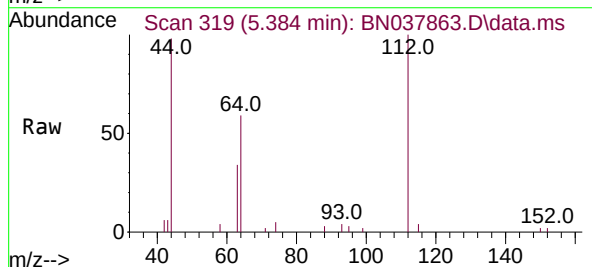
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

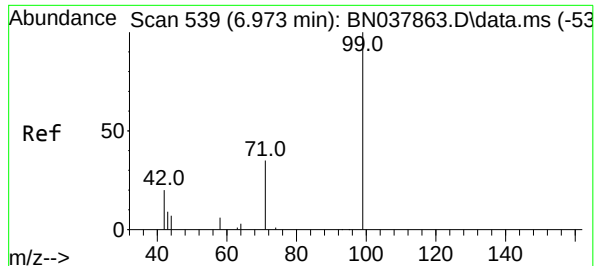
Tgt Ion: 42 Resp: 2885
Ion Ratio Lower Upper
42 100
74 116.7 93.4 140.0
44 27.8 22.2 33.4



#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

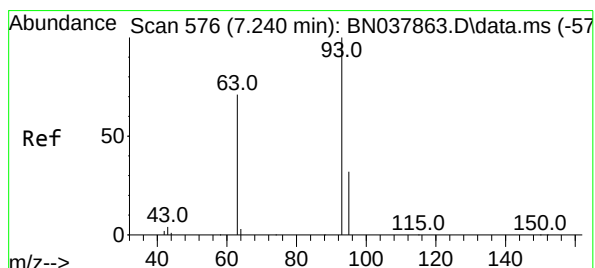
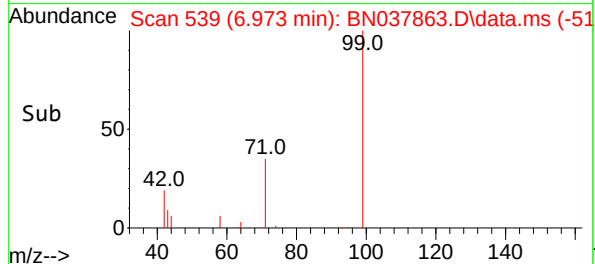
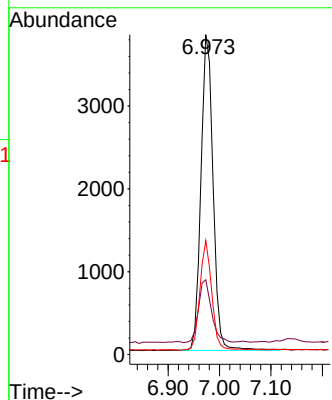
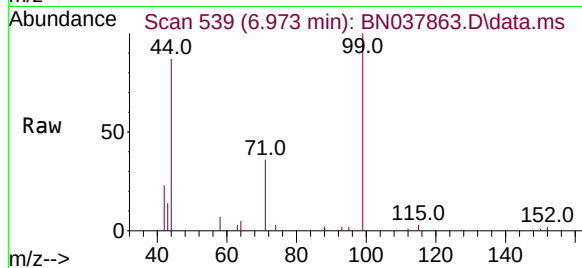




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

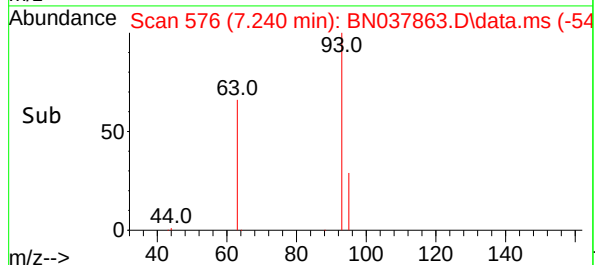
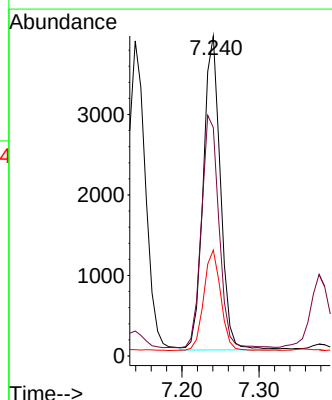
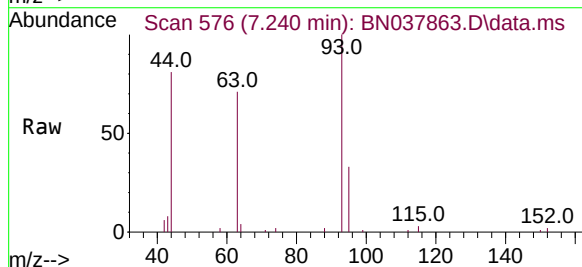
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

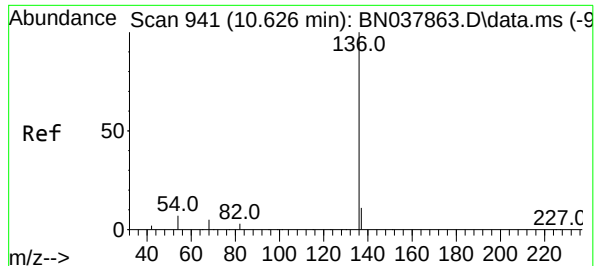
Tgt Ion:	99	Resp:	6244
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9



#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

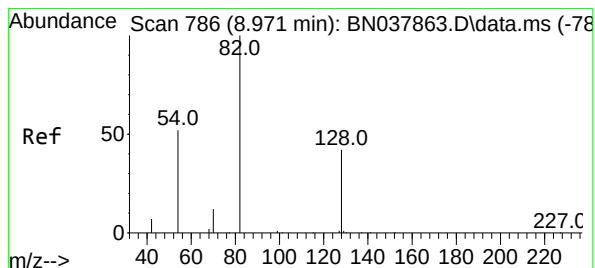
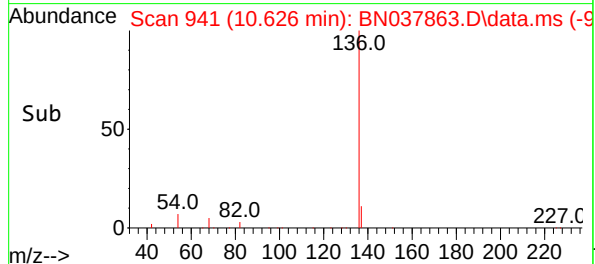
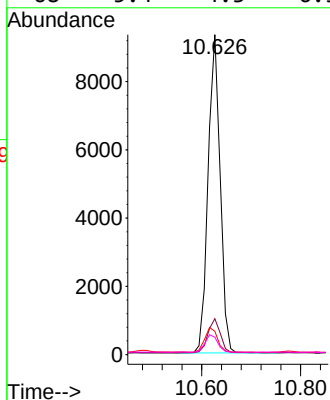
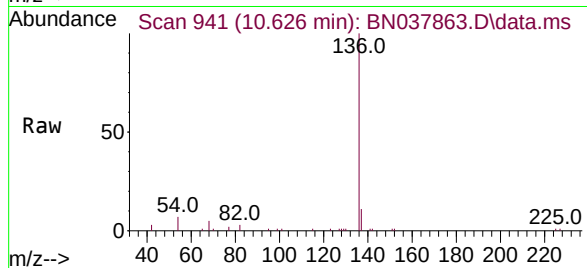




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

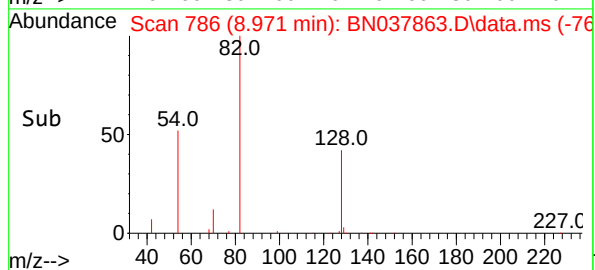
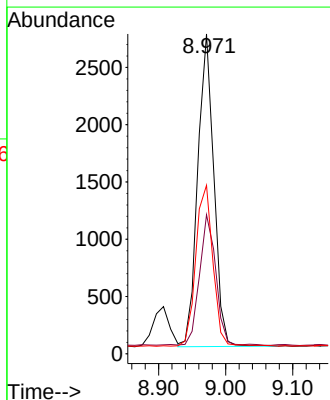
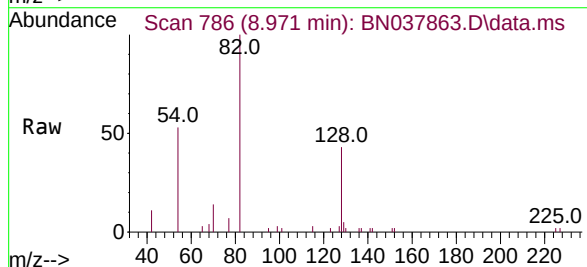
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

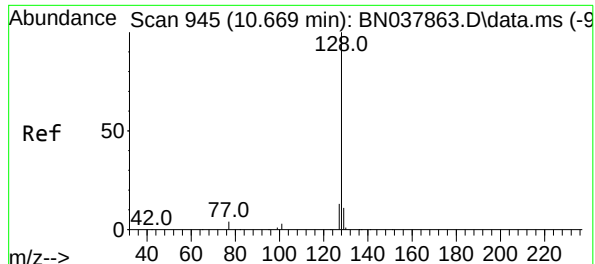
Tgt Ion:	136	Resp:	15792
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5



#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

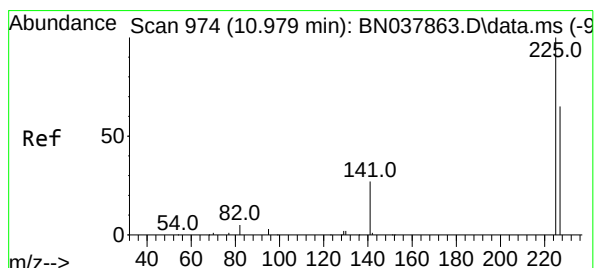
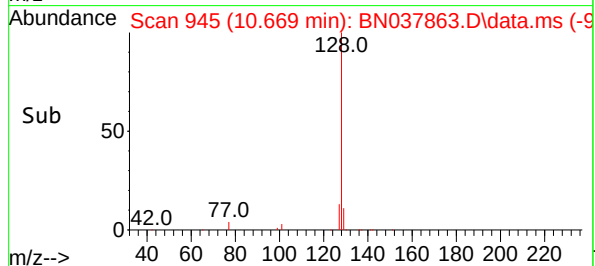
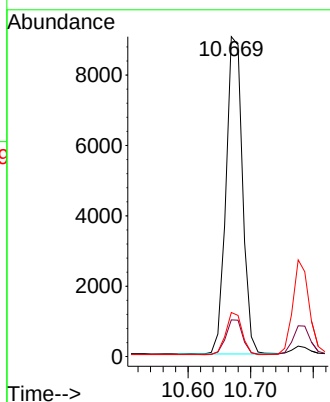
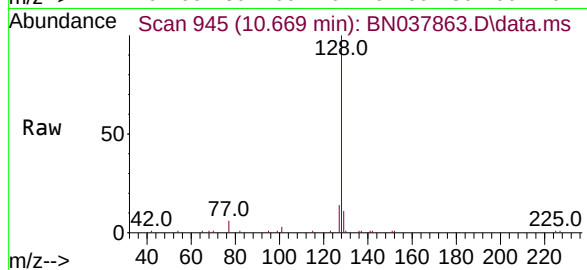
Instrument :

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

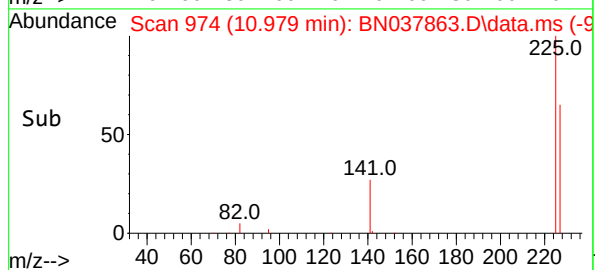
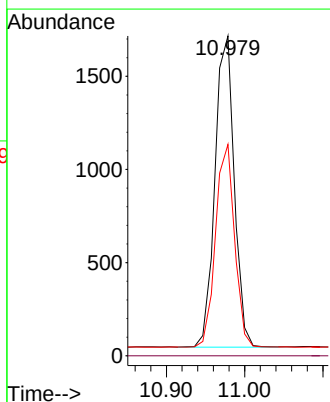
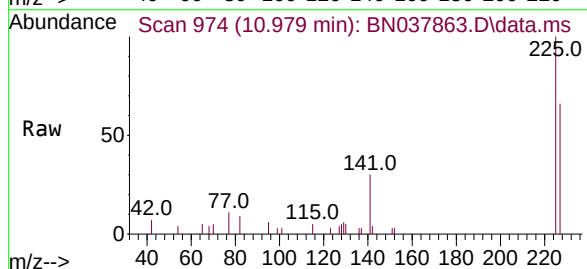
RT: 10.979 min Scan# 974

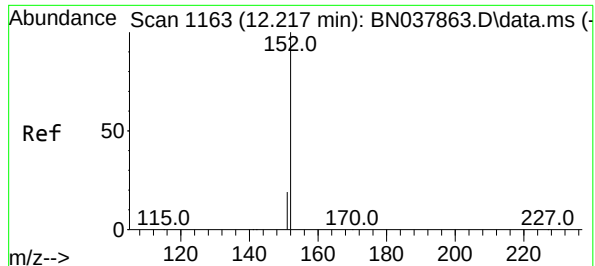
Delta R.T. 0.000 min

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

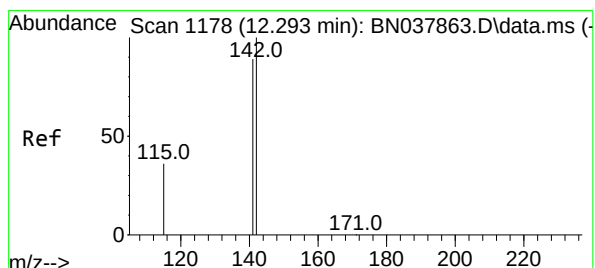
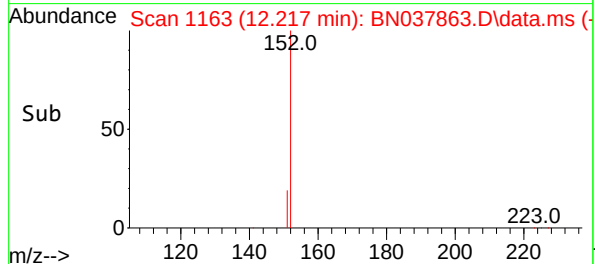
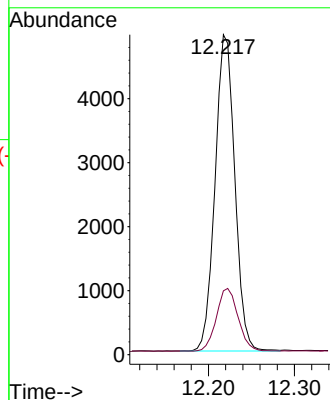
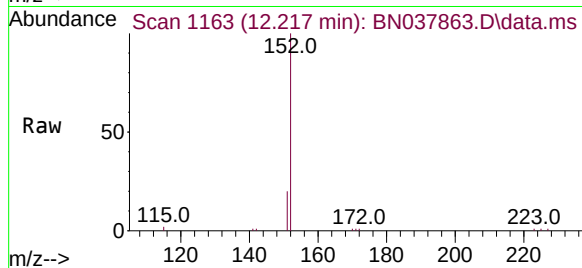




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

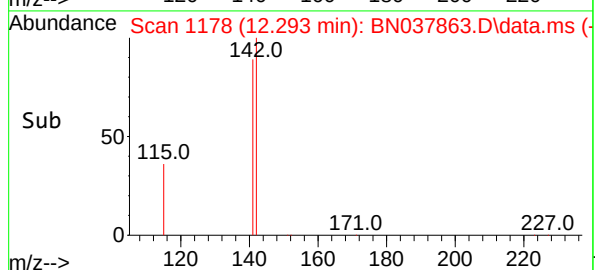
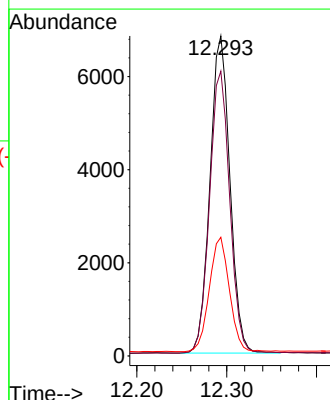
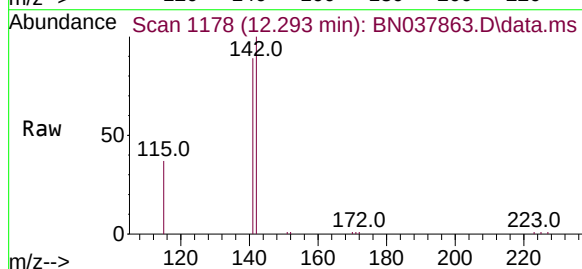
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

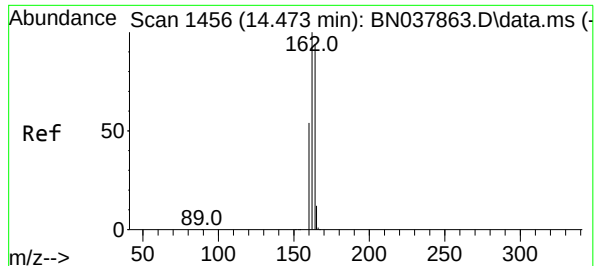
Tgt Ion:152 Resp: 7877
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#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

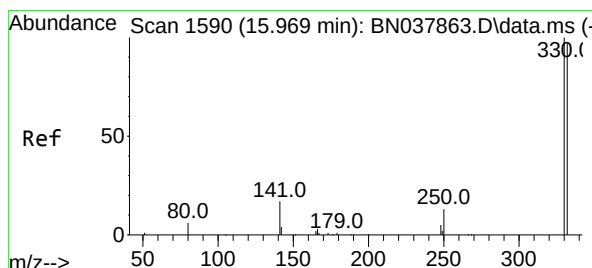
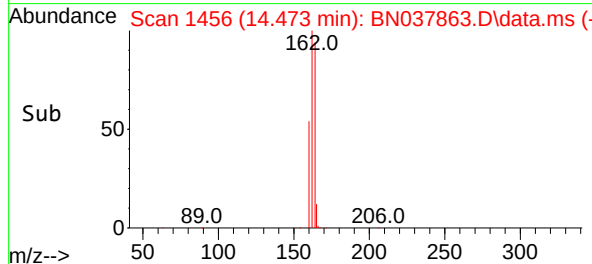
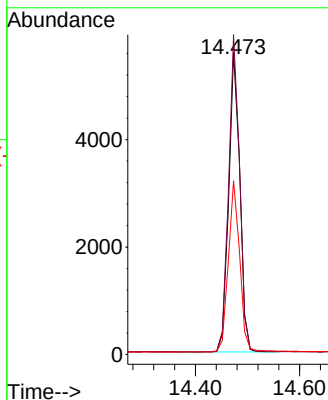
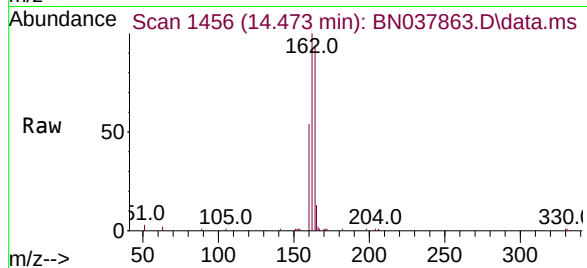
Tgt Ion:164 Resp: 8247

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

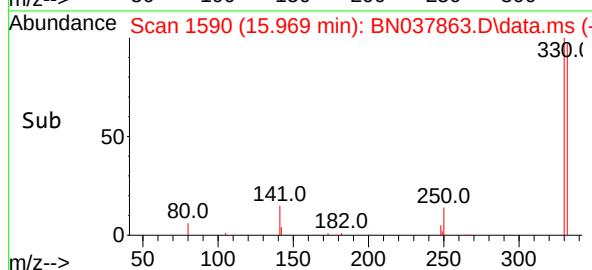
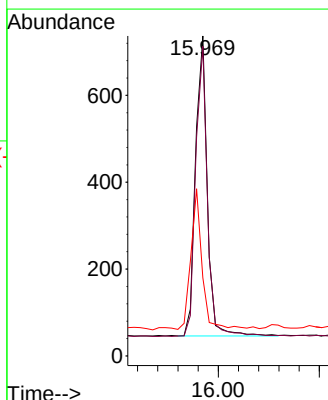
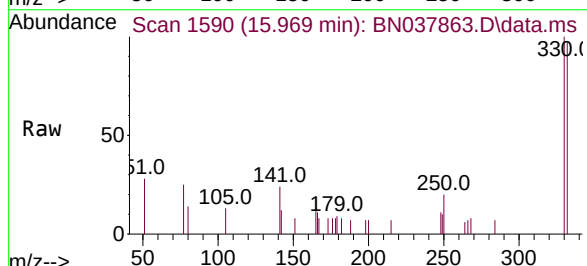
Tgt Ion:330 Resp: 1117

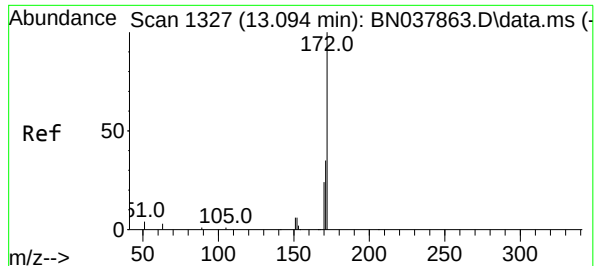
Ion Ratio Lower Upper

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

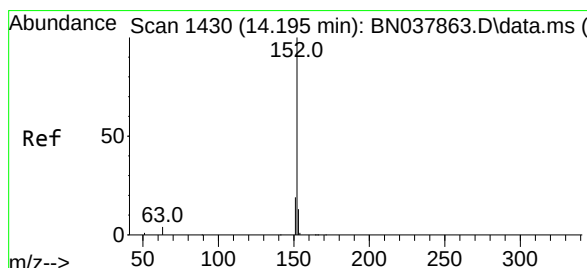
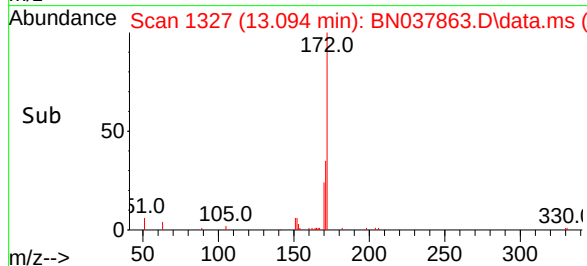
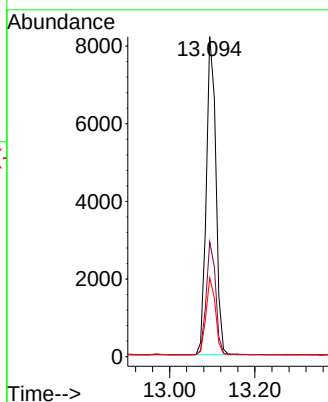
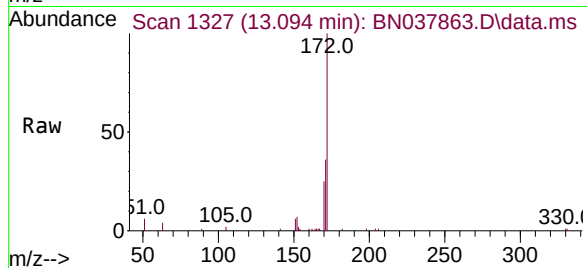
Tgt Ion:172 Resp: 12861

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.6 19.7 29.5



#16

Acenaphthylene

Concen: 0.366 ng

RT: 14.195 min Scan# 1430

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

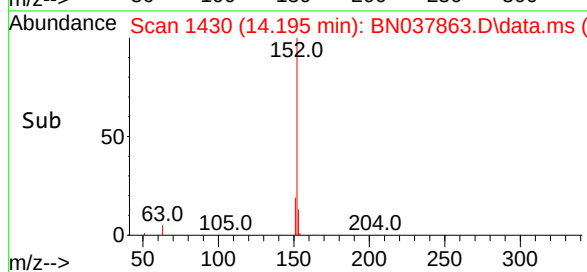
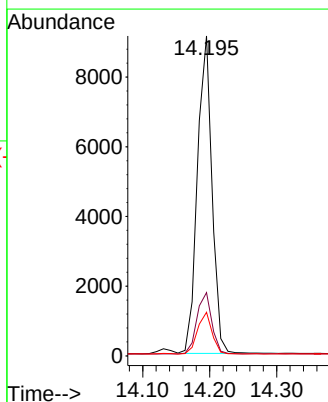
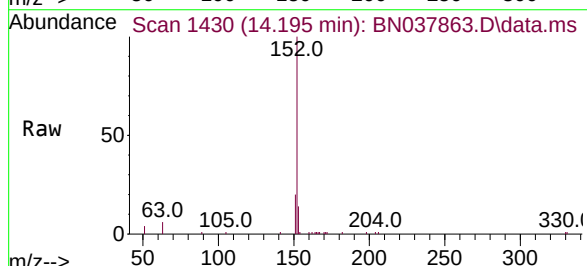
Tgt Ion:152 Resp: 13712

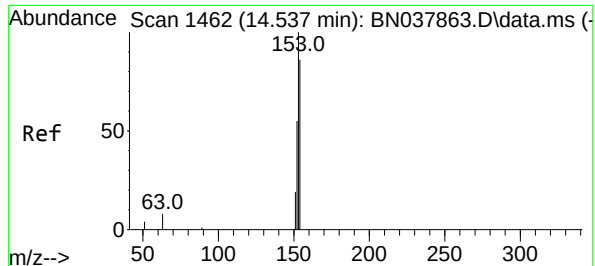
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.370 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

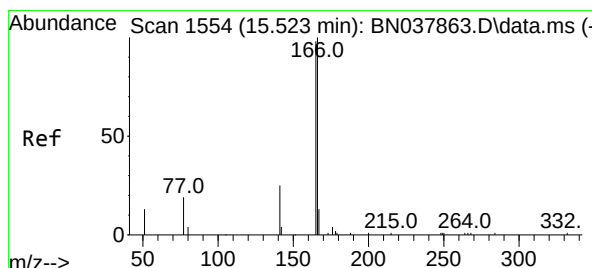
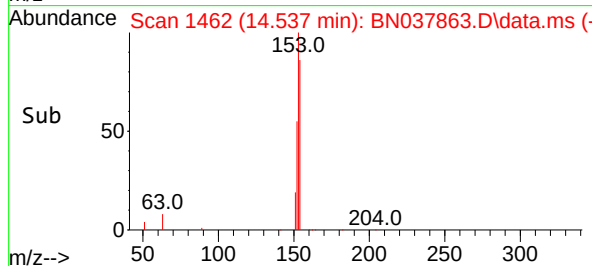
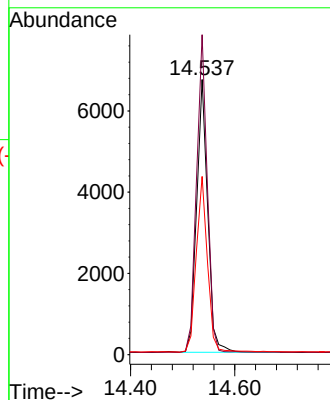
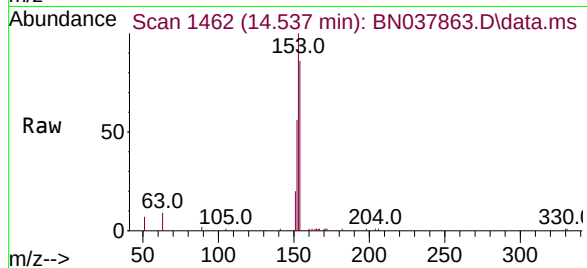
Tgt Ion:154 Resp: 9880

Ion Ratio Lower Upper

154 100

153 113.1 90.5 135.7

152 64.8 51.8 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

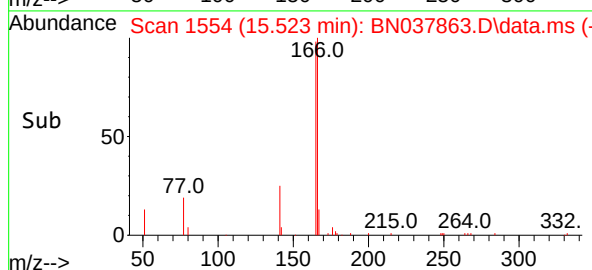
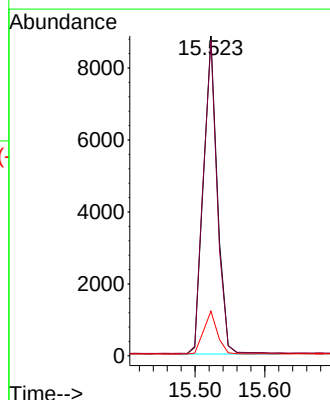
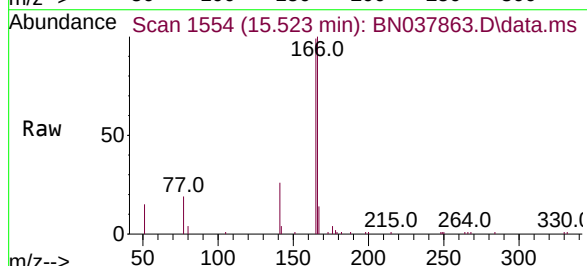
Tgt Ion:166 Resp: 11975

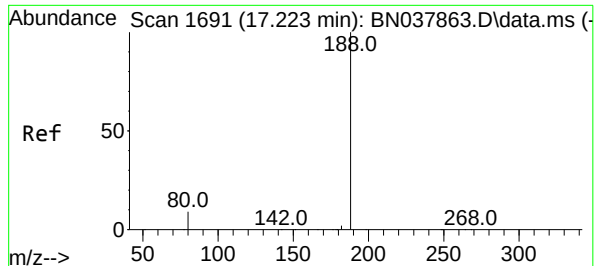
Ion Ratio Lower Upper

166 100

165 99.0 79.0 118.4

167 13.3 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: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

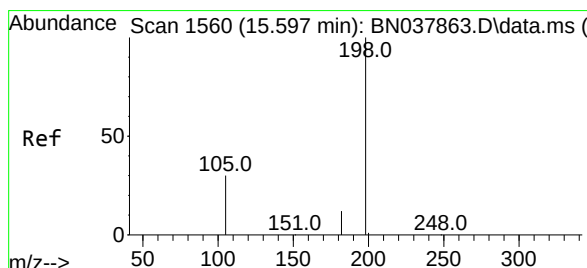
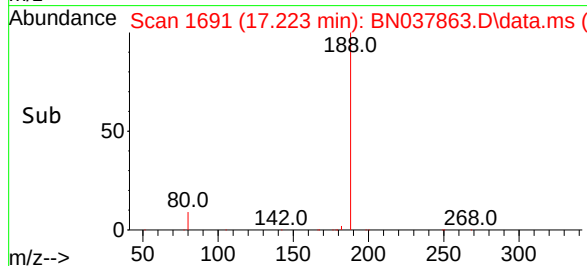
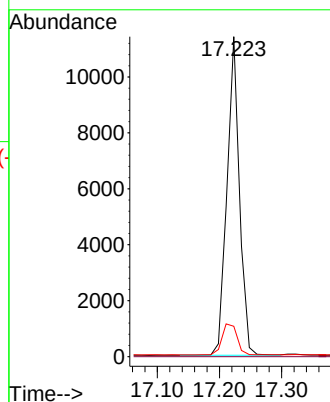
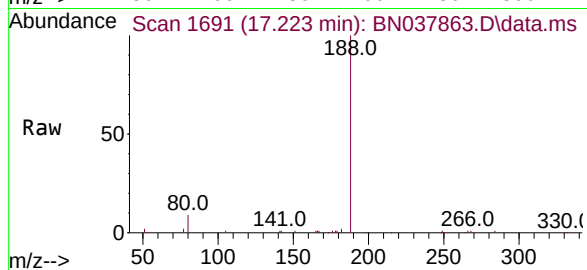
Tgt Ion:188 Resp: 15939

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

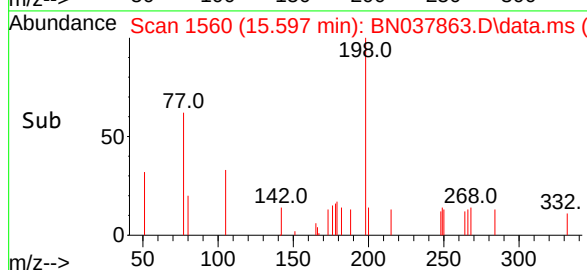
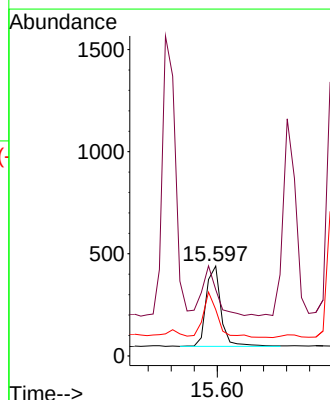
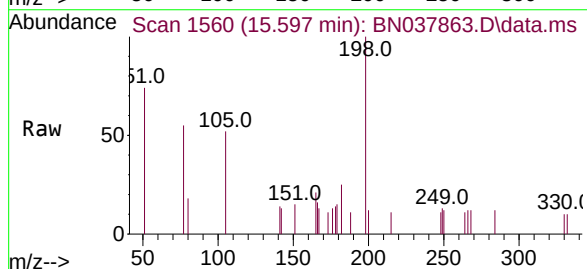
Tgt Ion:198 Resp: 696

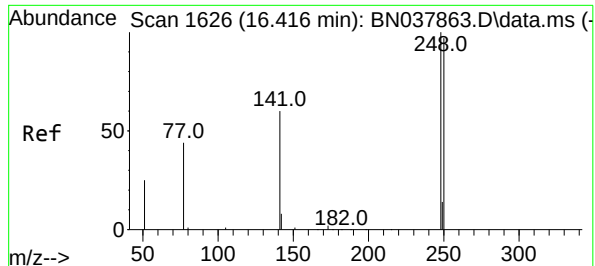
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

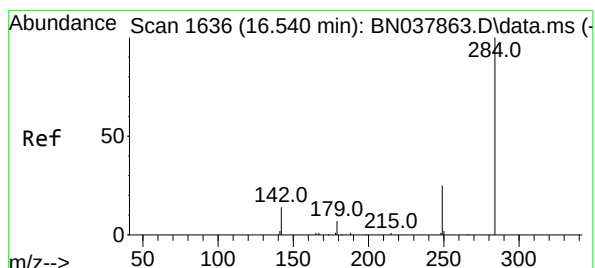
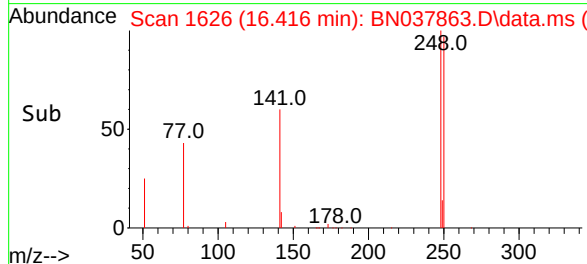
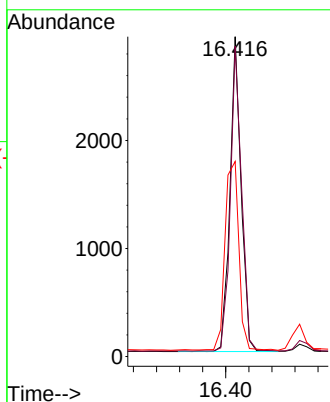
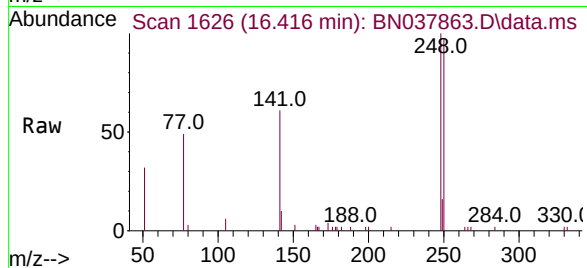




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

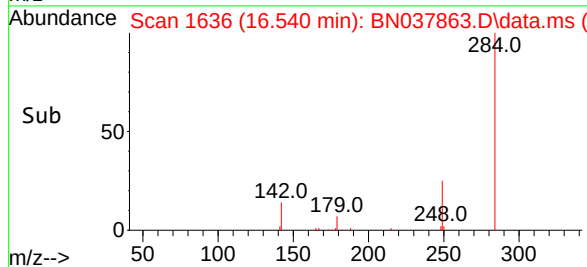
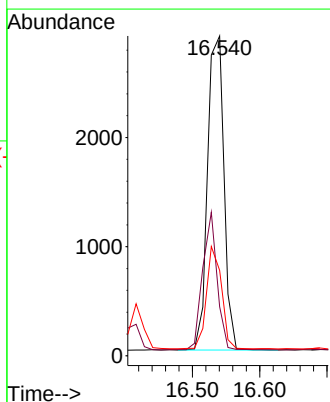
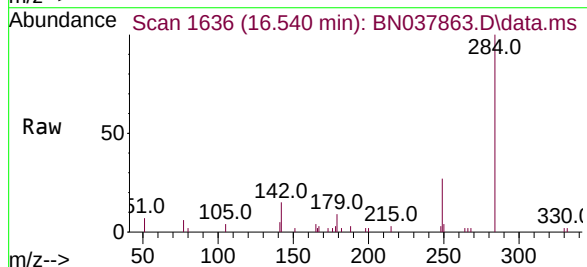
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

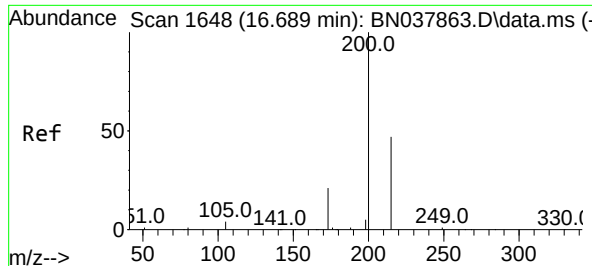
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.6	116.4
141	61.0	48.8	73.2



#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

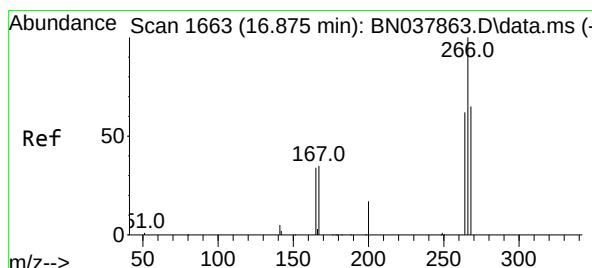
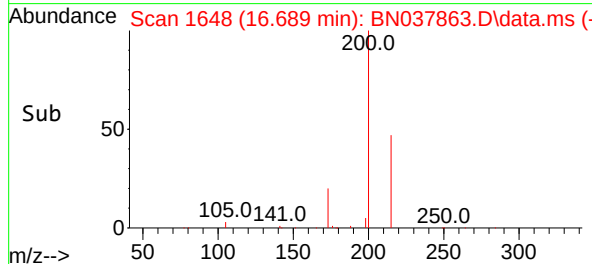
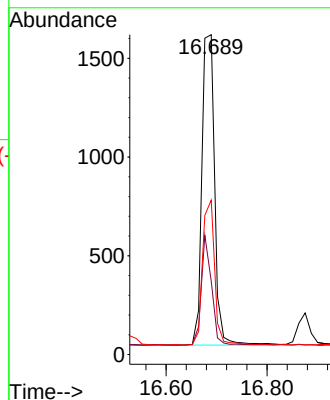
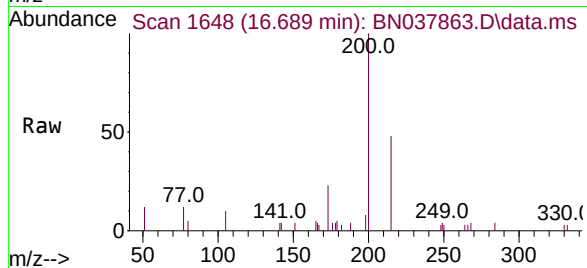
Tgt Ion:200 Resp: 2739

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

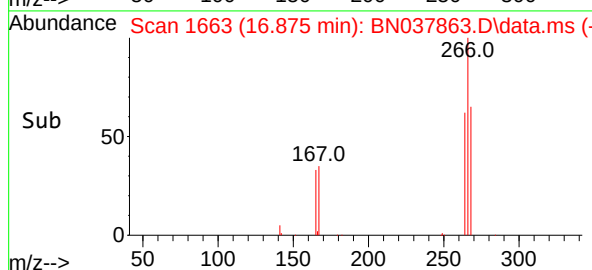
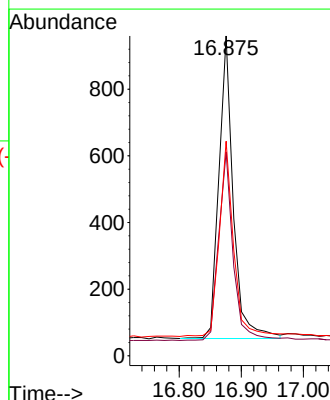
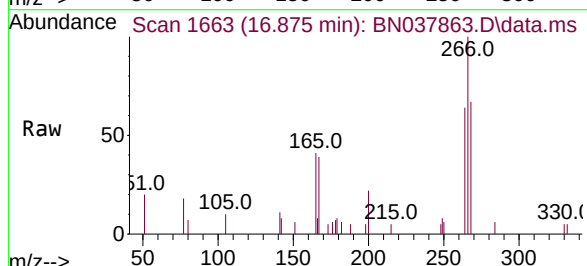
Tgt Ion:266 Resp: 1466

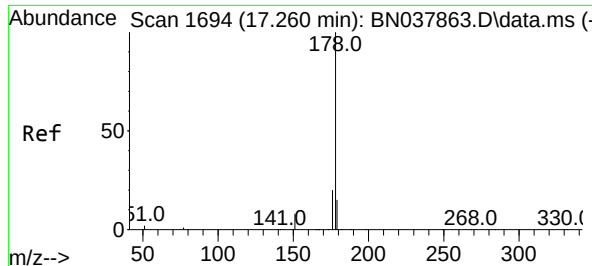
Ion Ratio Lower Upper

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

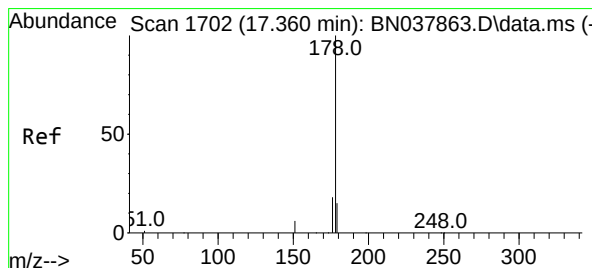
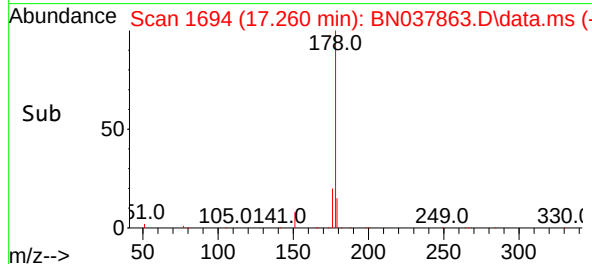
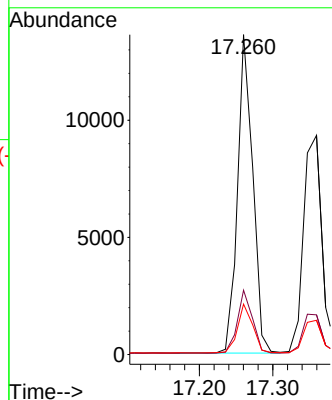
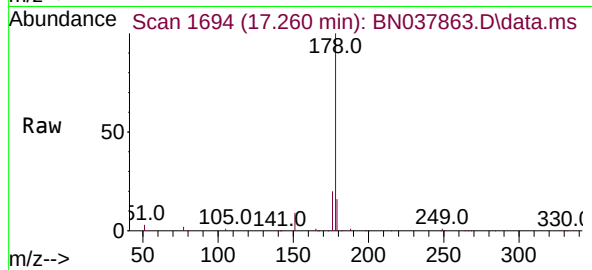
Tgt Ion:178 Resp: 19609

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

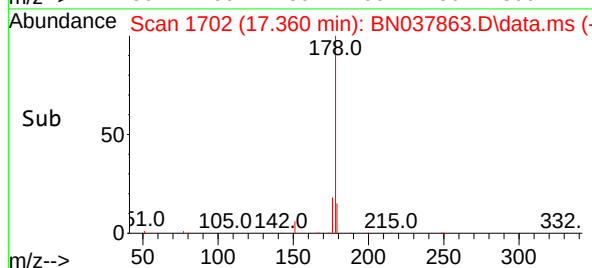
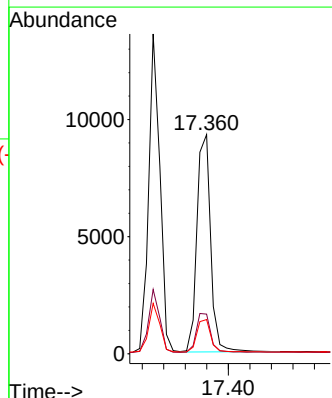
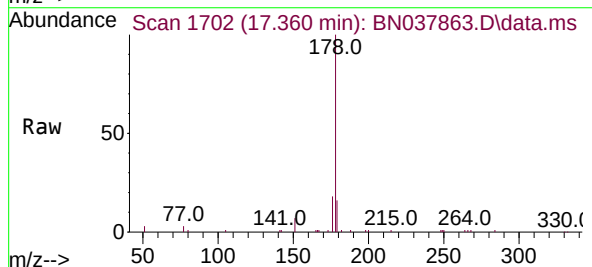
Tgt Ion:178 Resp: 16310

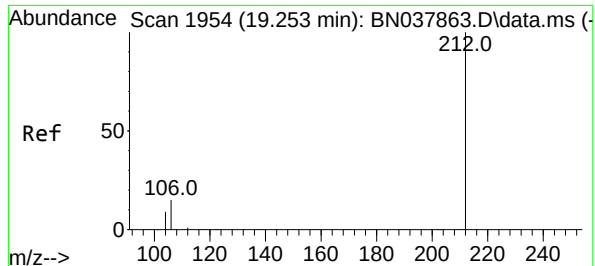
Ion Ratio Lower Upper

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

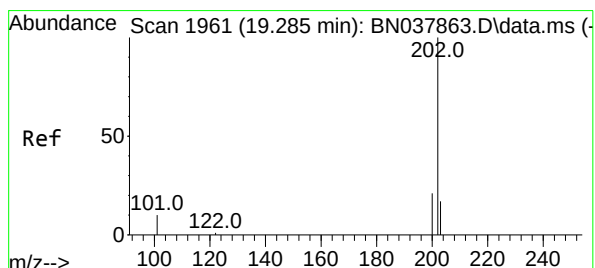
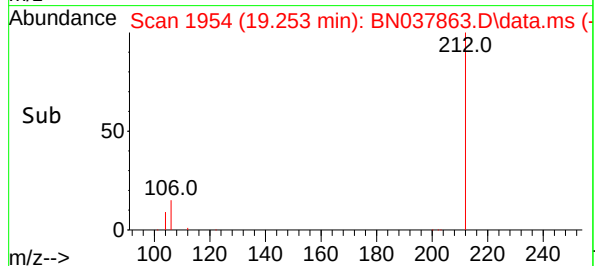
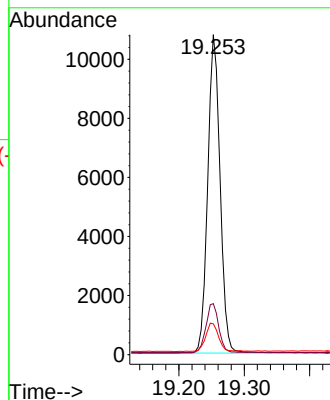
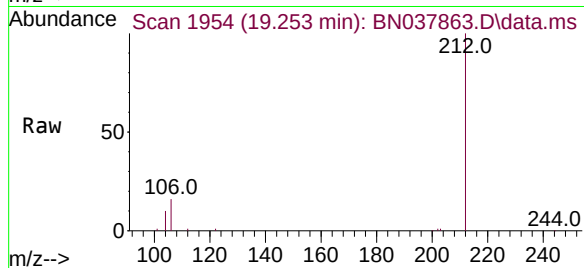
Tgt Ion:212 Resp: 14130

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

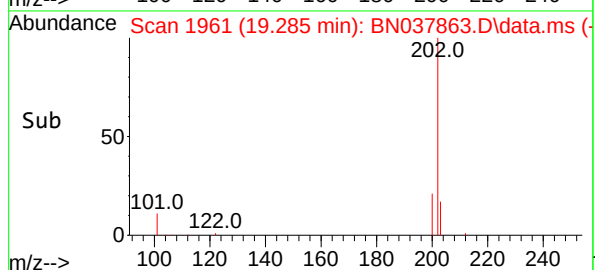
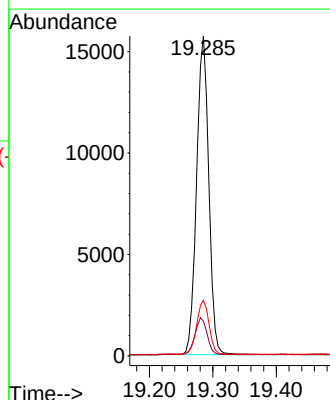
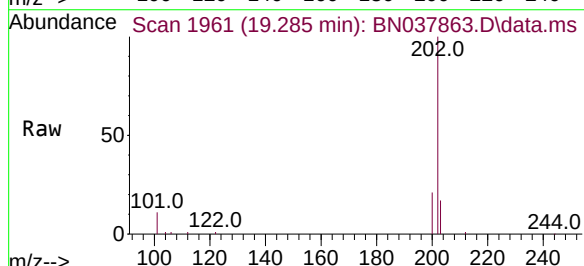
Tgt Ion:202 Resp: 20902

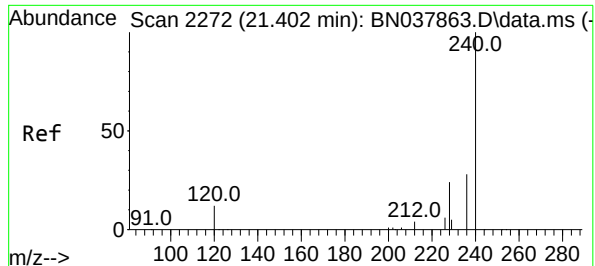
Ion Ratio Lower Upper

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

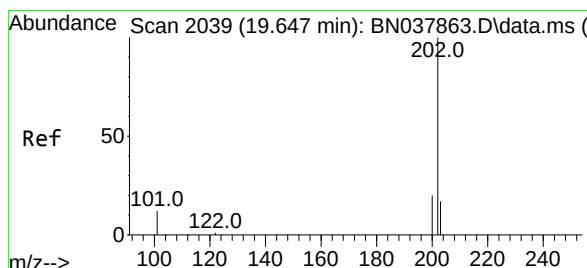
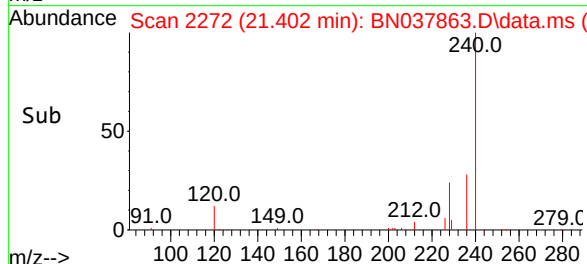
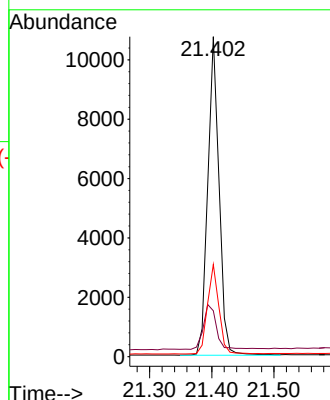
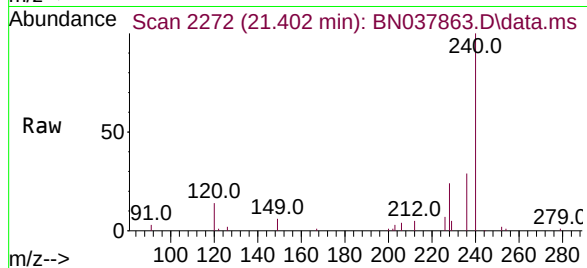
Tgt Ion:240 Resp: 13579

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

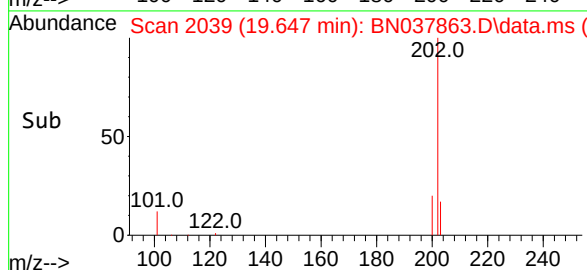
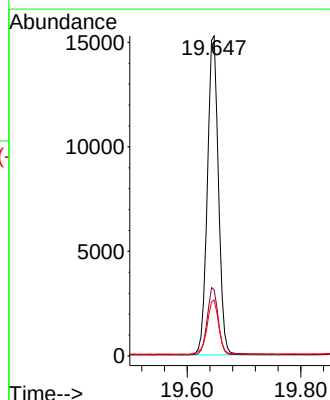
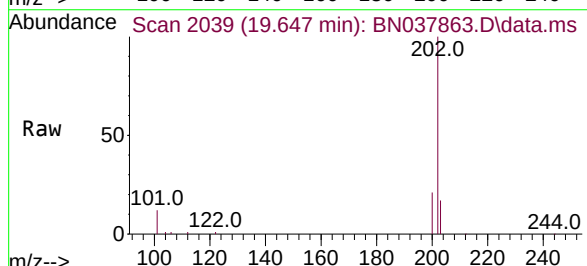
Tgt Ion:202 Resp: 20652

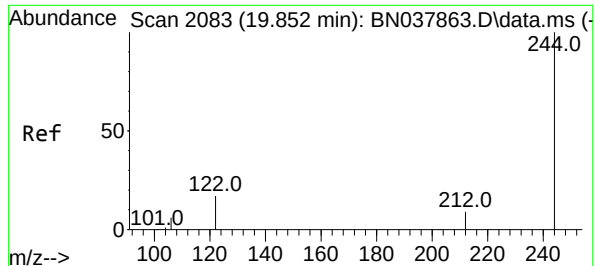
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

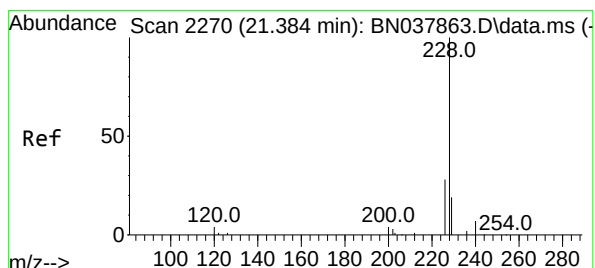
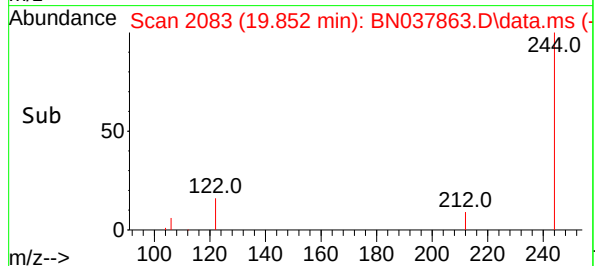
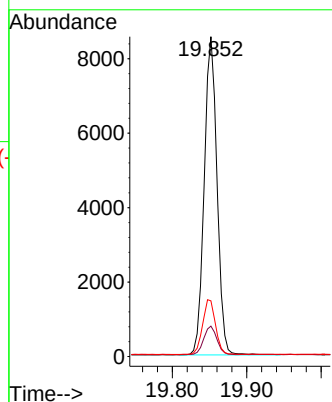
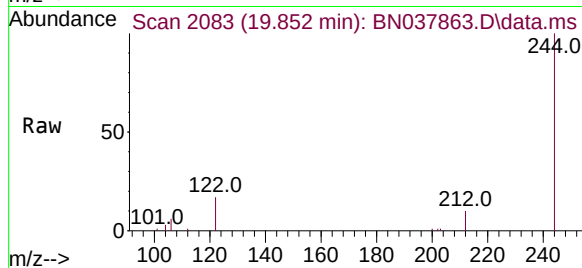




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

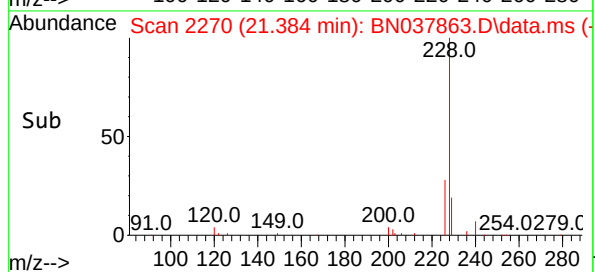
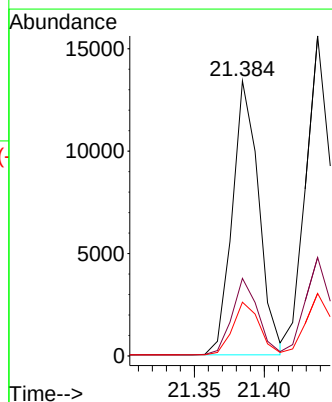
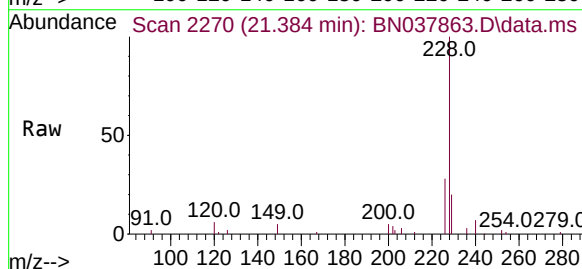
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

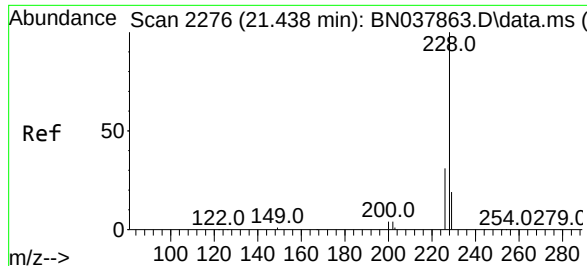
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9



#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	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

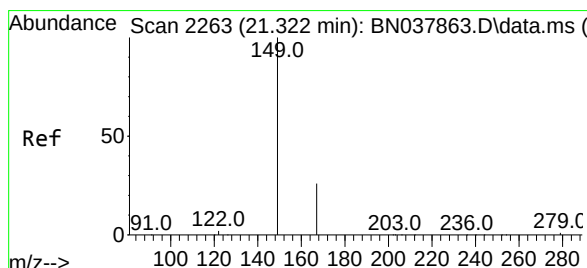
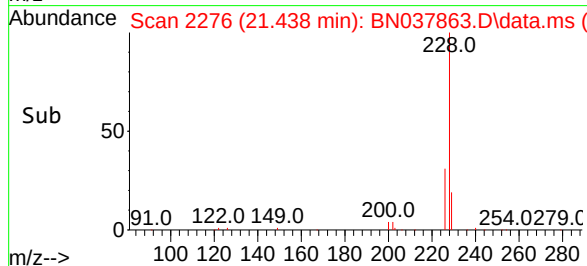
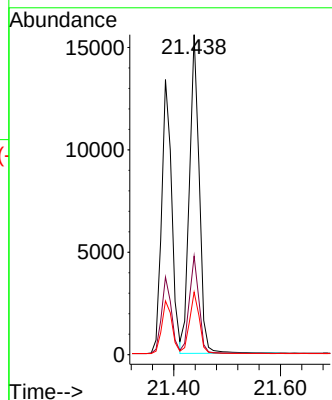
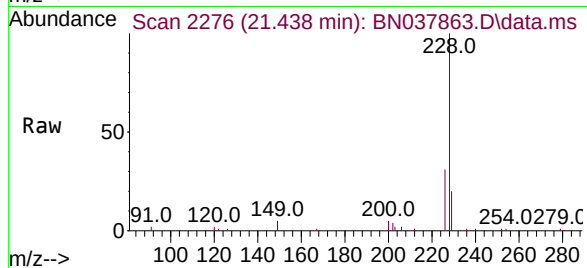
Tgt Ion:228 Resp: 19852

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

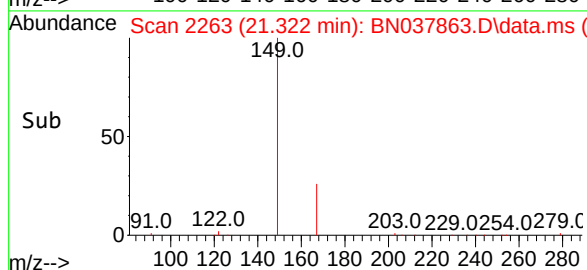
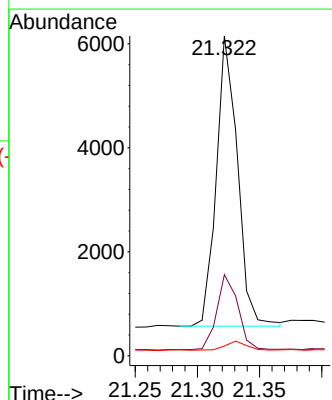
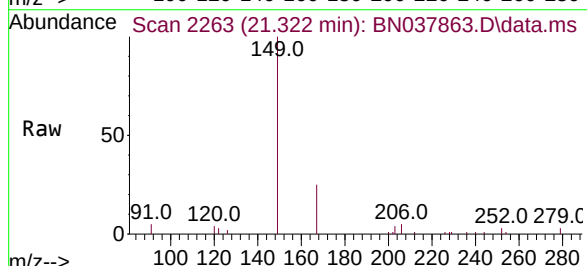
Tgt Ion:149 Resp: 6617

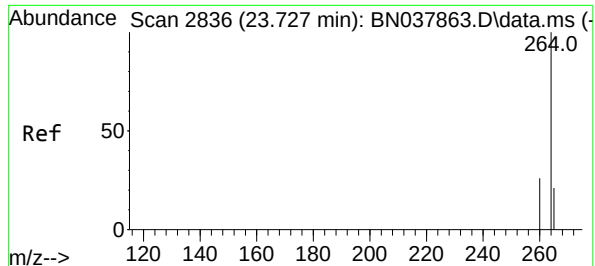
Ion Ratio Lower Upper

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

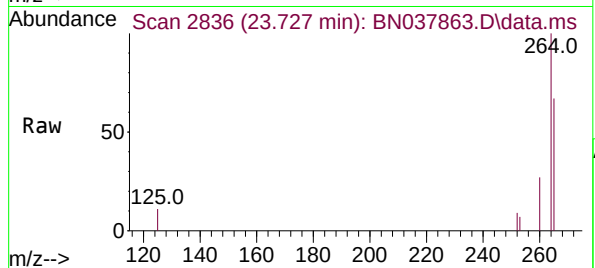
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



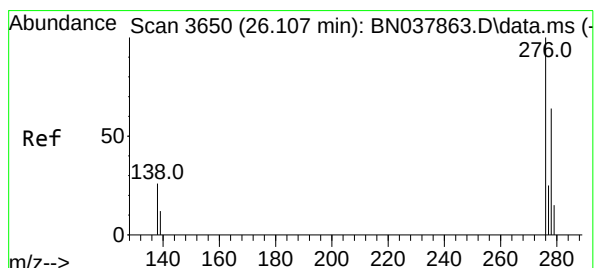
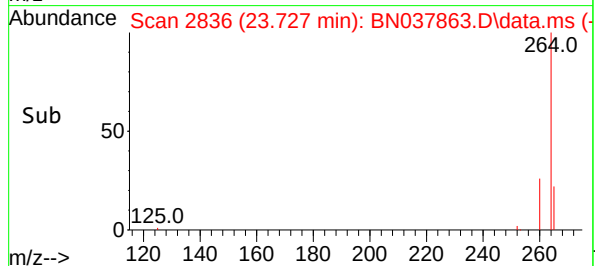
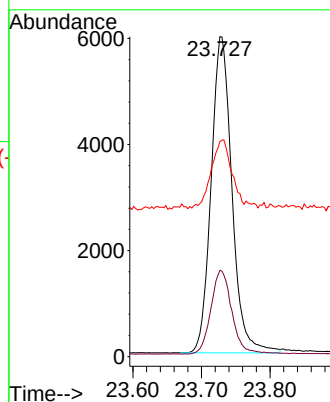
Tgt Ion:264 Resp: 12579

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

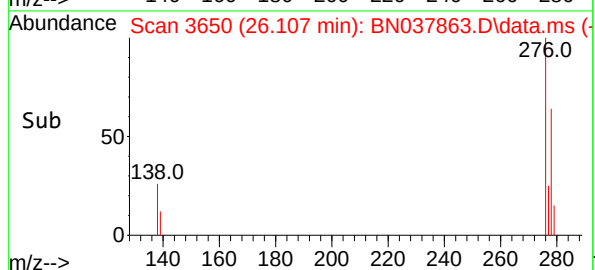
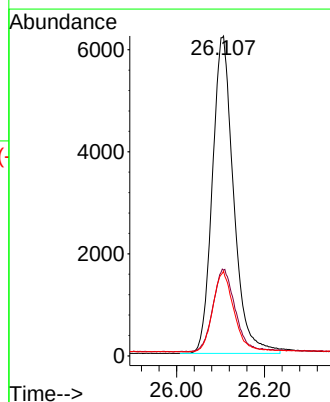
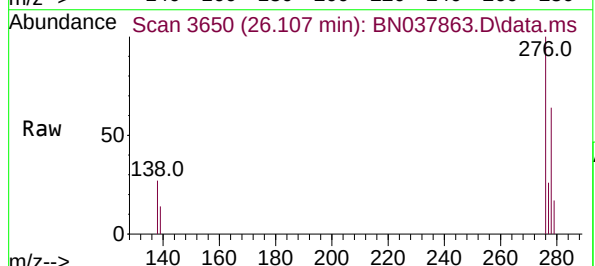
Tgt Ion:276 Resp: 20858

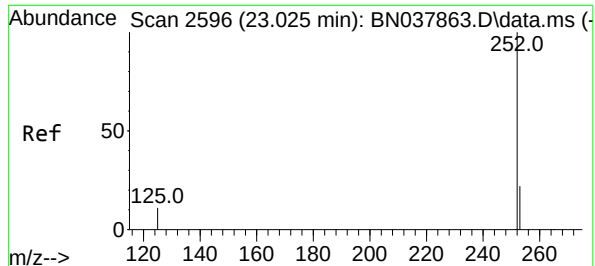
Ion Ratio Lower Upper

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

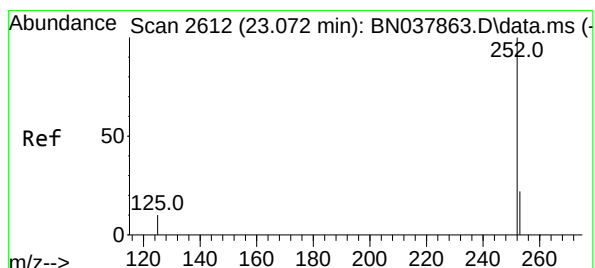
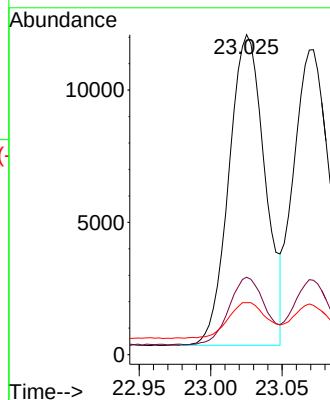
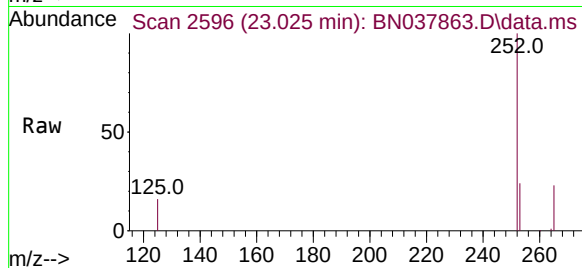
Tgt Ion:252 Resp: 20638

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

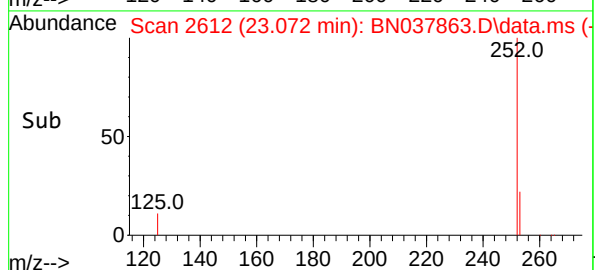
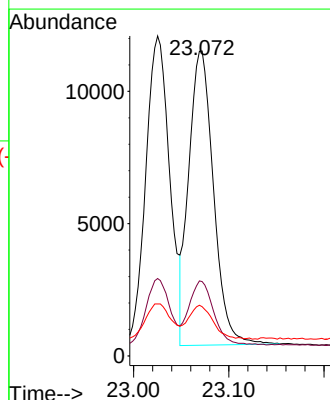
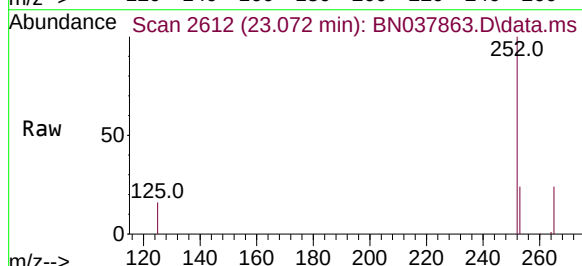
Tgt Ion:252 Resp: 20090

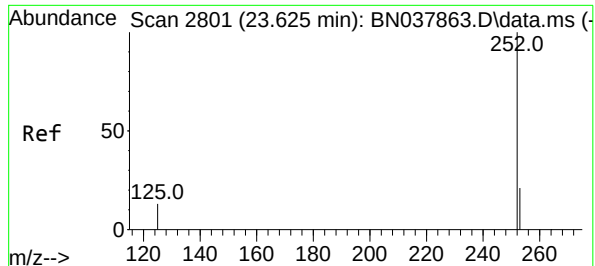
Ion Ratio Lower Upper

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

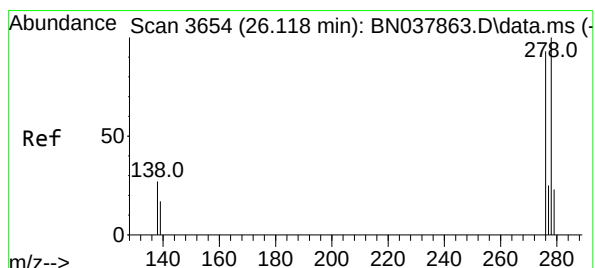
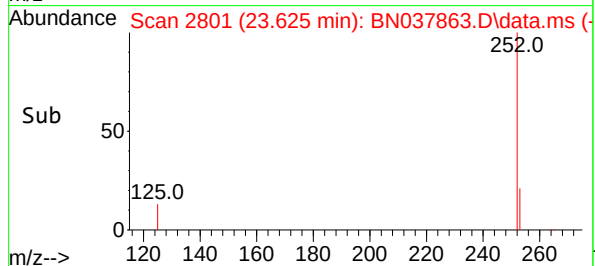
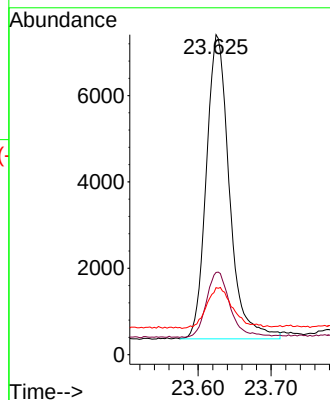
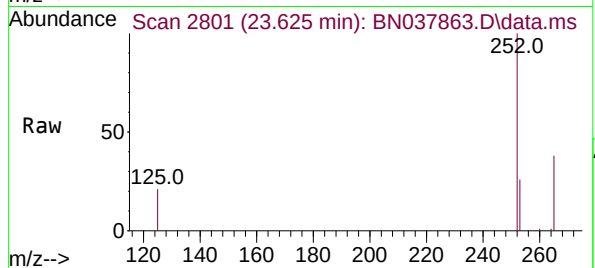
Tgt Ion:252 Resp: 15479

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

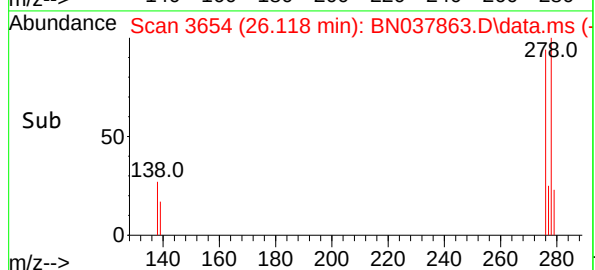
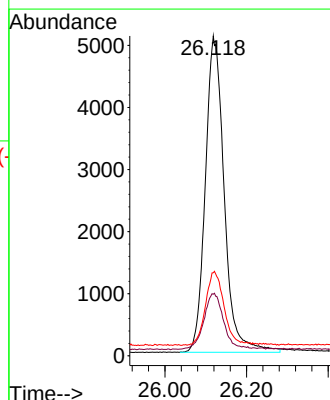
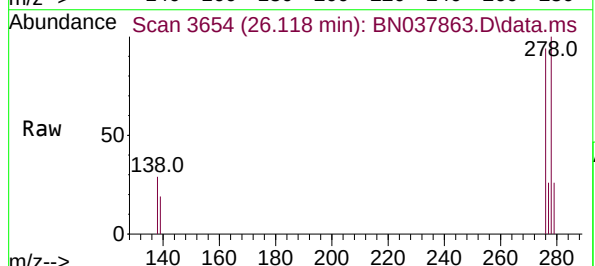
Tgt Ion:278 Resp: 16392

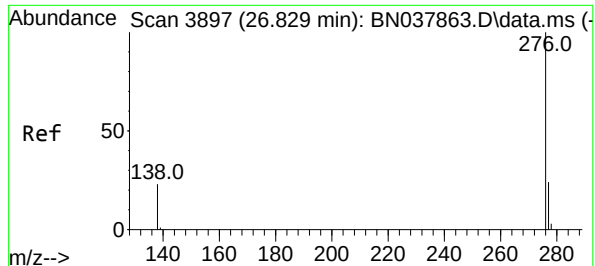
Ion Ratio Lower Upper

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

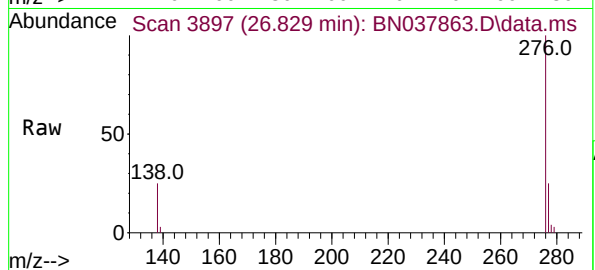
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



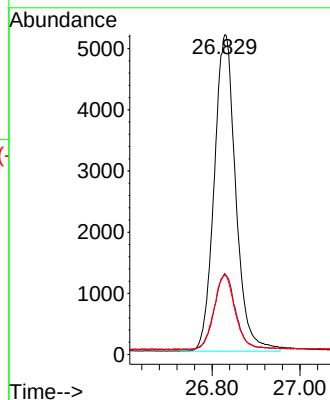
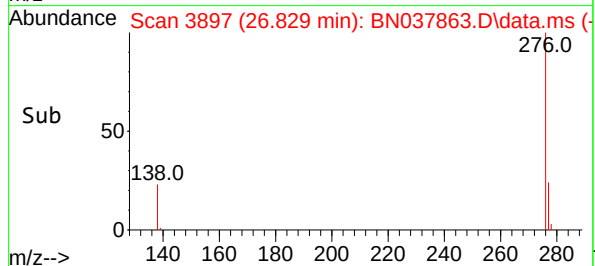
Tgt Ion:276 Resp: 17656

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

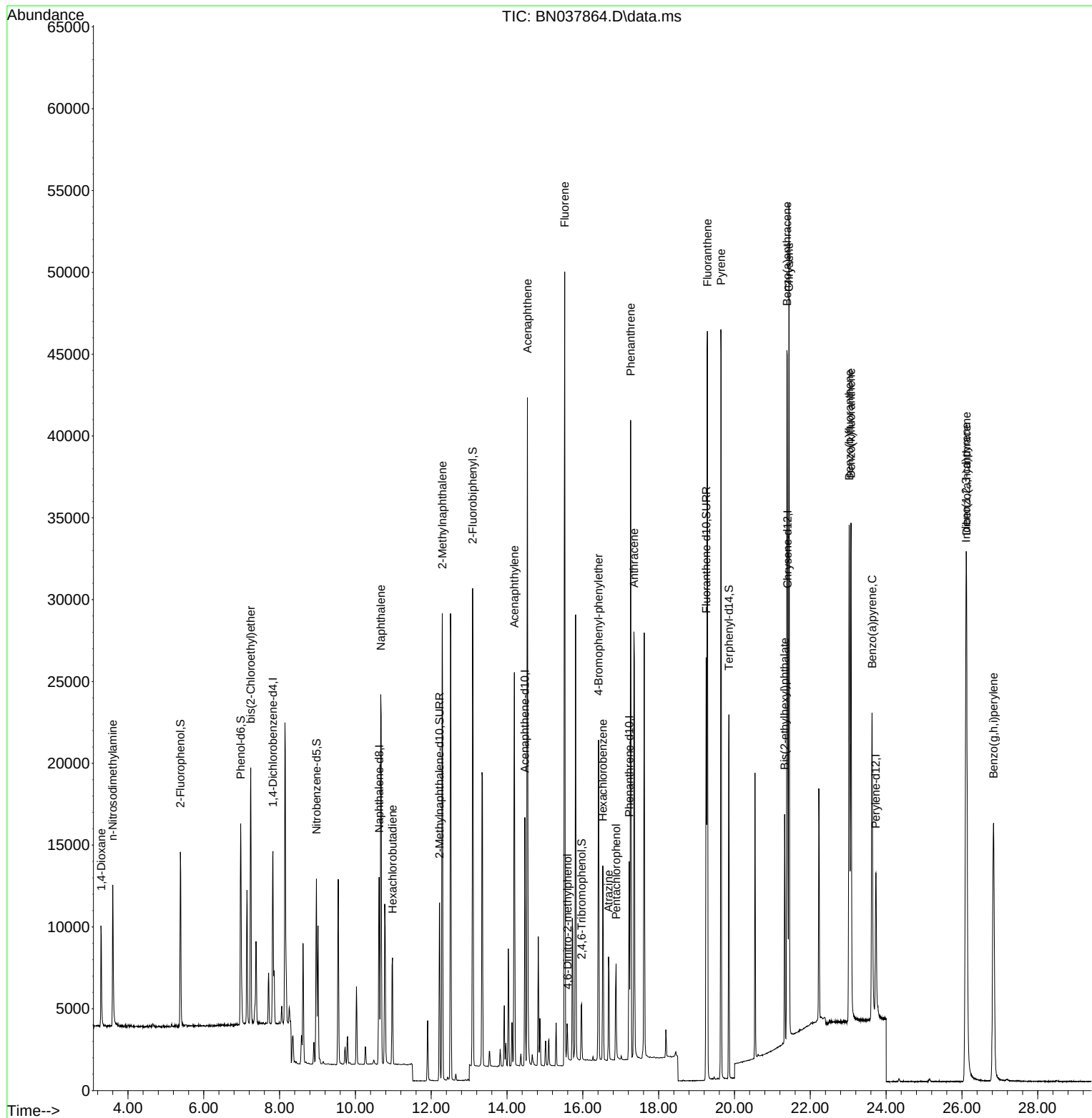
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng	0.00
29) Chrysene-d12	21.402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

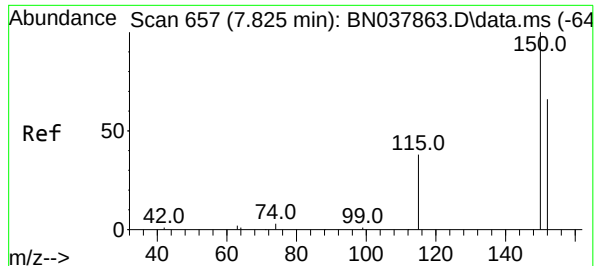
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

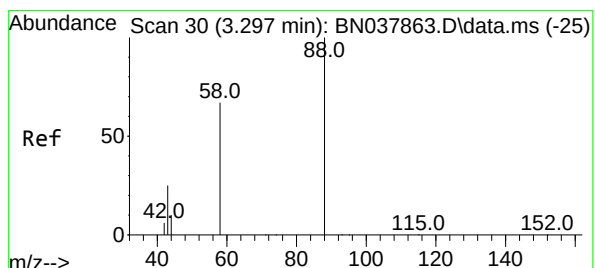
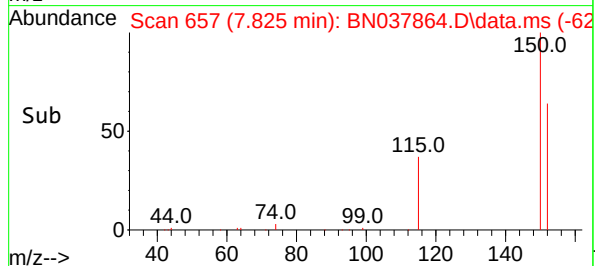
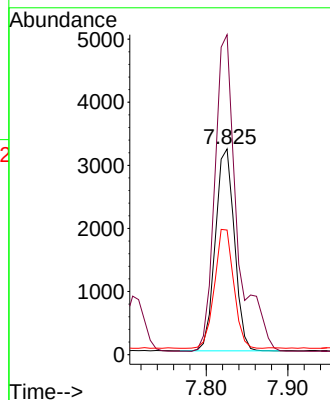
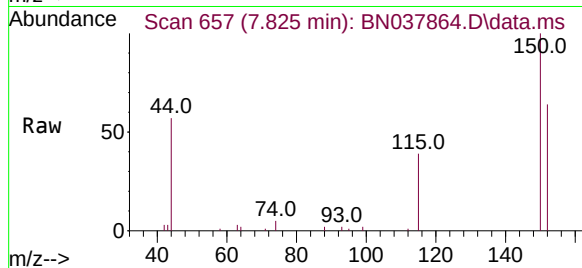




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

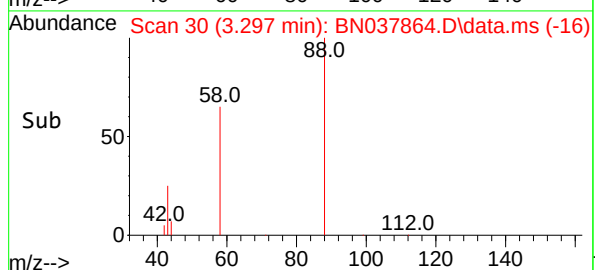
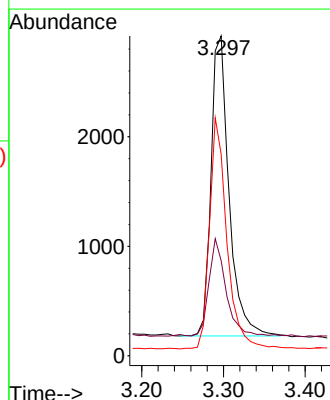
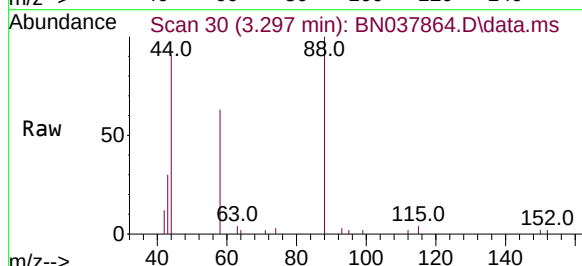
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

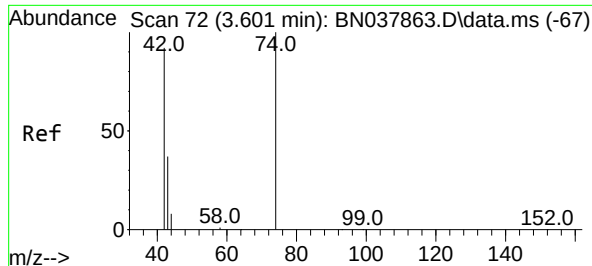
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.6 121.0 181.4
115 60.6 47.4 71.0



#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

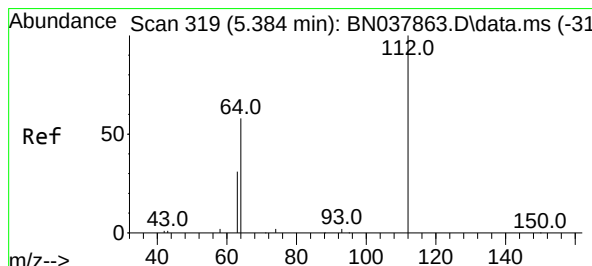
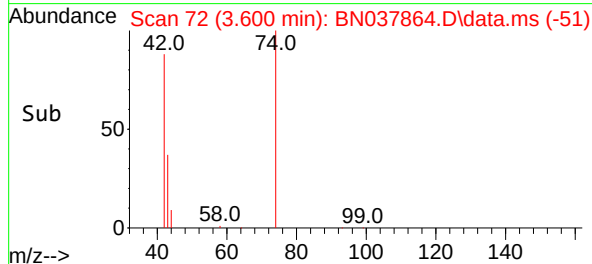
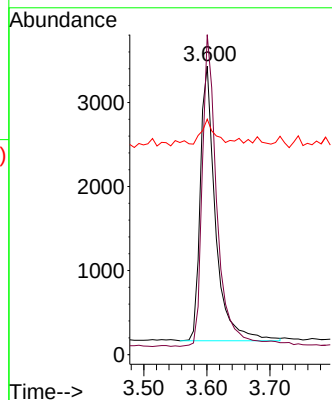
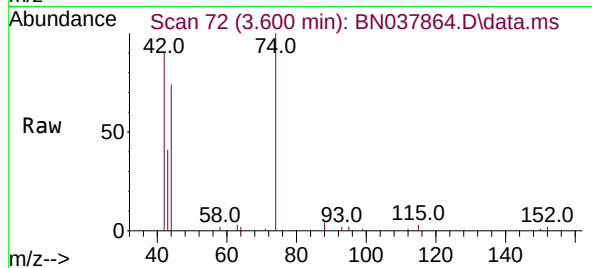




#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

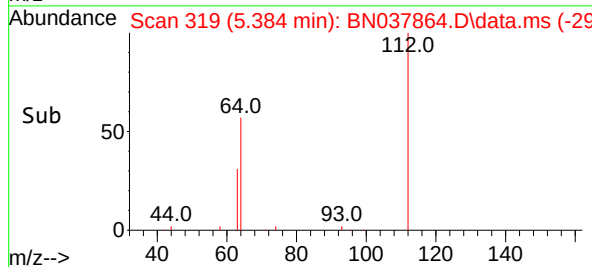
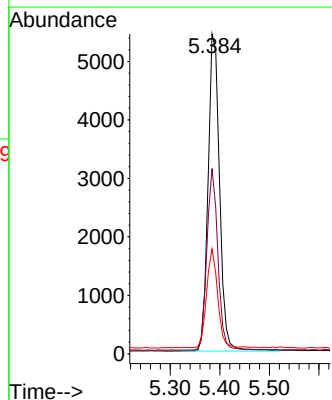
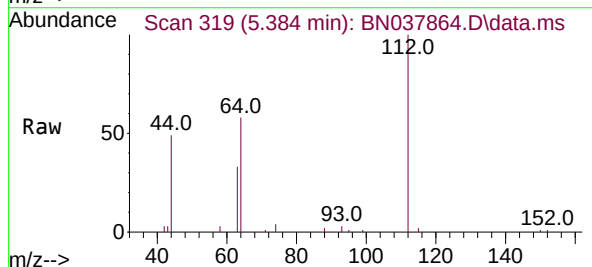
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

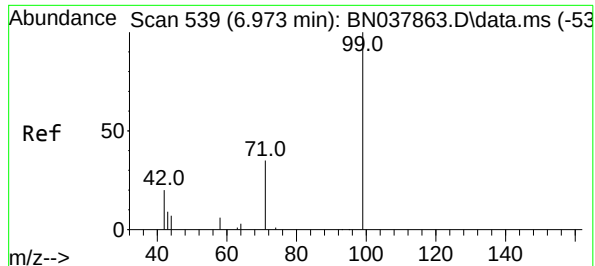
Tgt Ion: 42 Resp: 5472
Ion Ratio Lower Upper
42 100
74 111.5 93.4 140.0
44 7.3 22.2 33.4#



#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

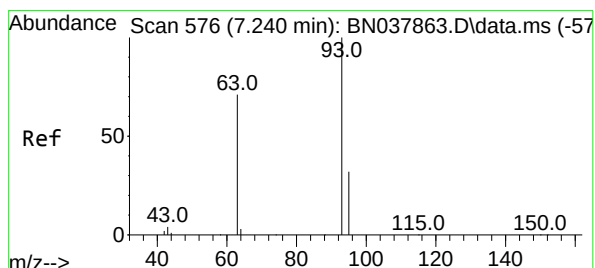
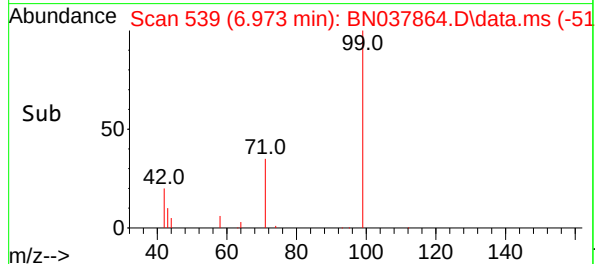
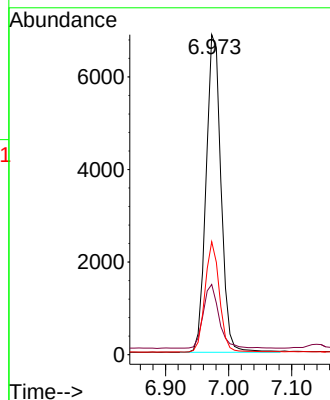
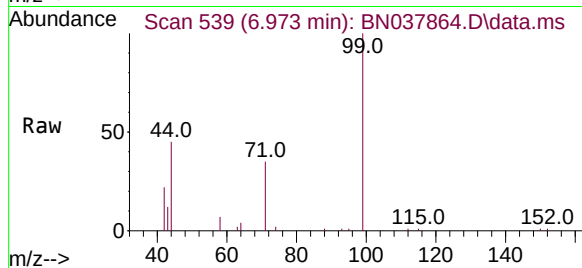




#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

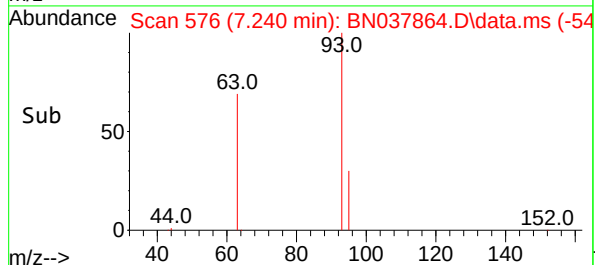
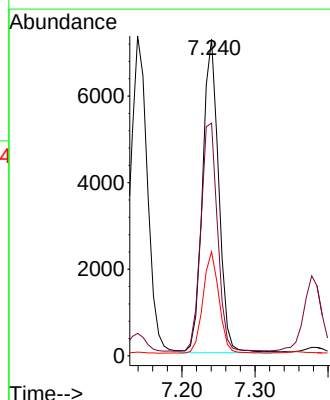
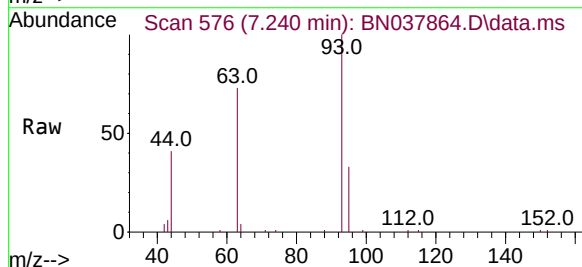
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

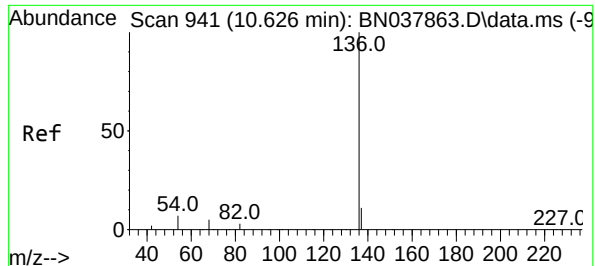
Tgt Ion:	99	Resp:	11319
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#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

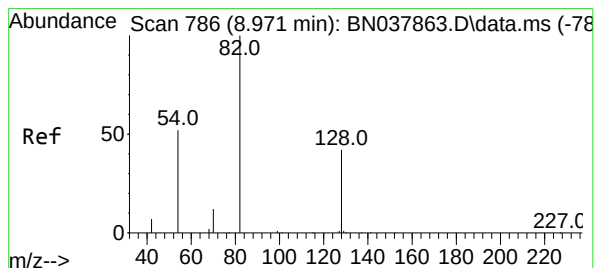
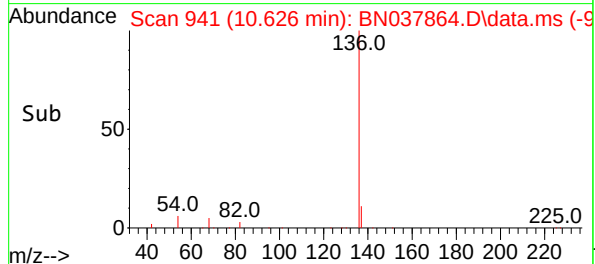
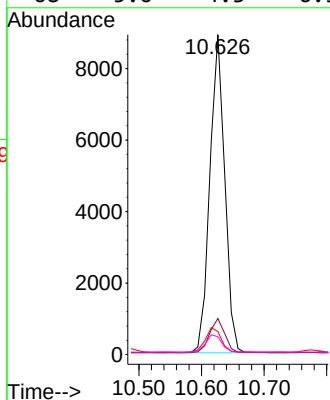
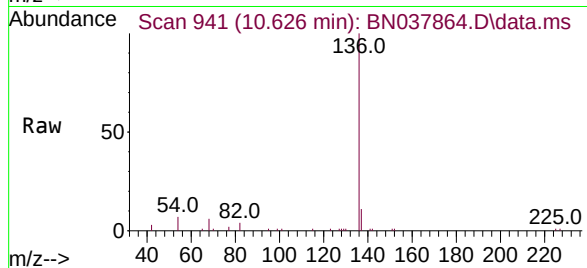




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

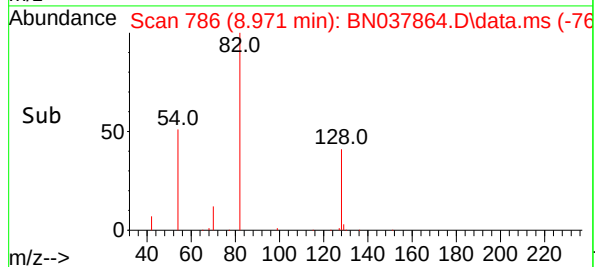
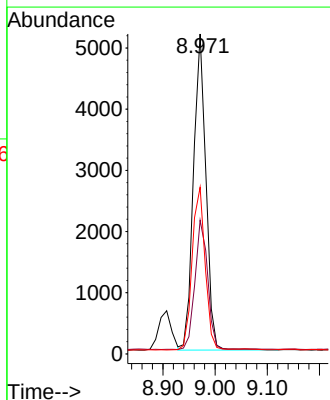
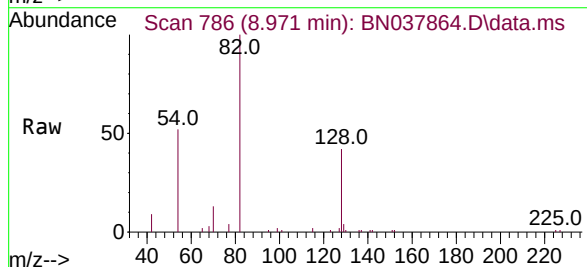
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

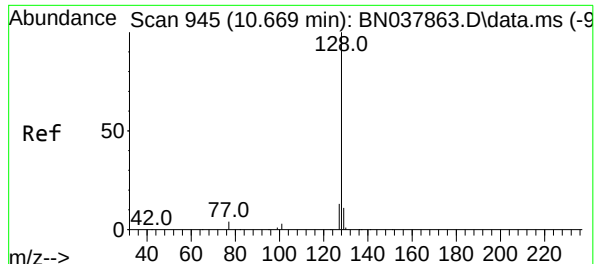
Tgt Ion:	136	Resp:	14715
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#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

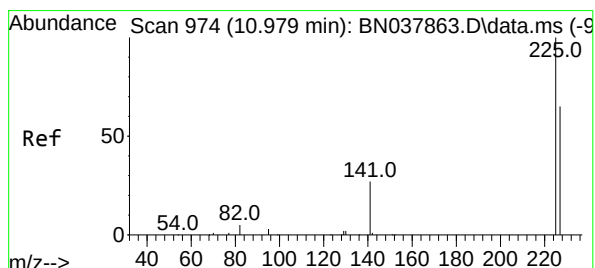
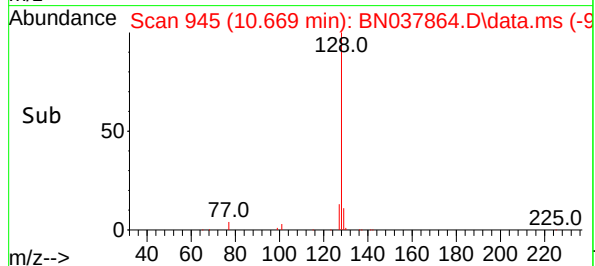
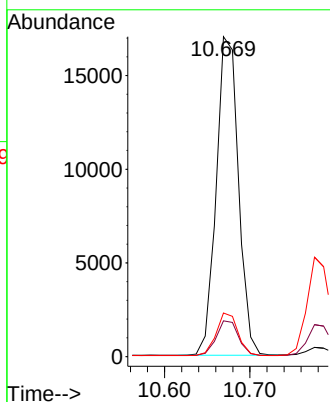
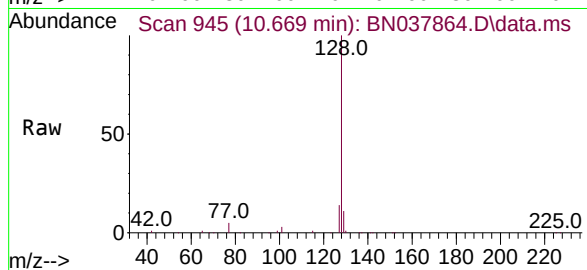
Instrument :

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

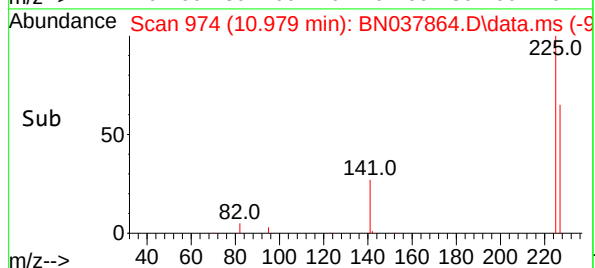
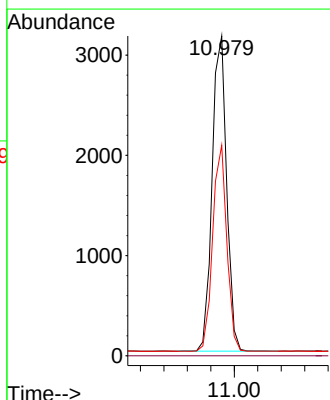
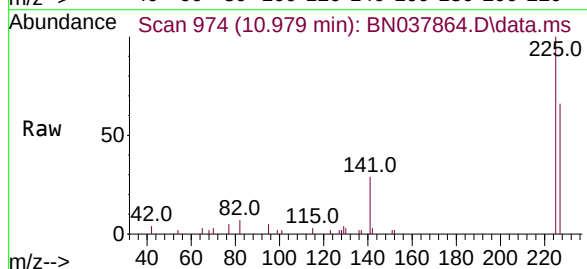
RT: 10.979 min Scan# 974

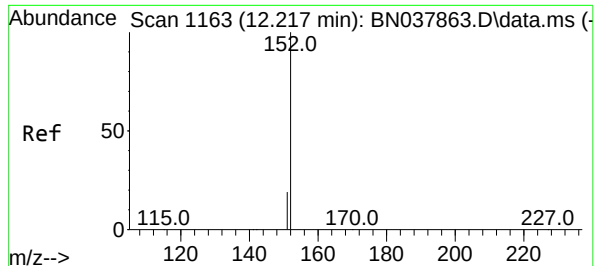
Delta R.T. -0.000 min

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

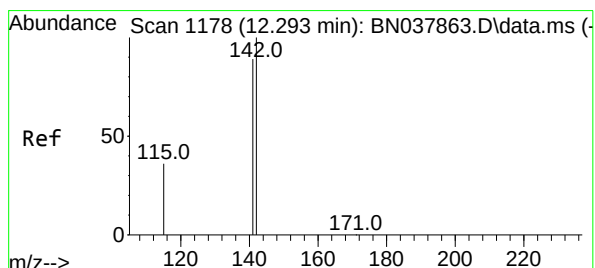
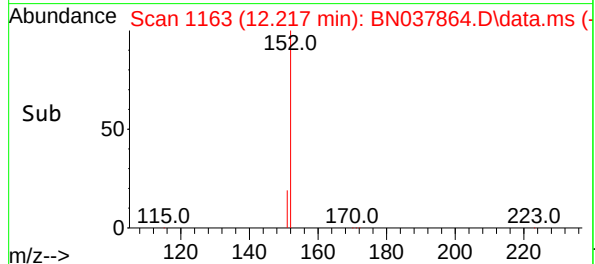
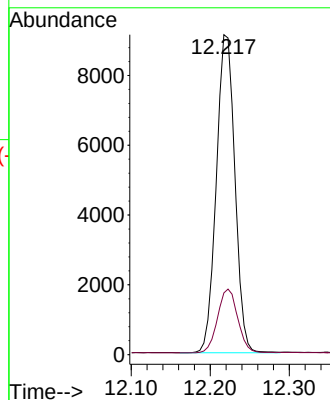
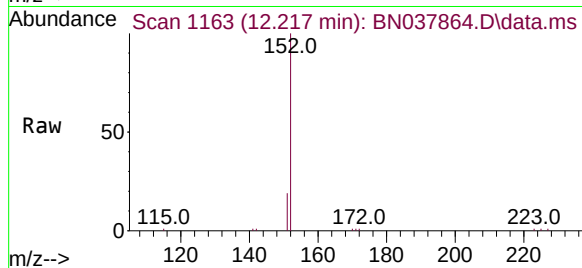




#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

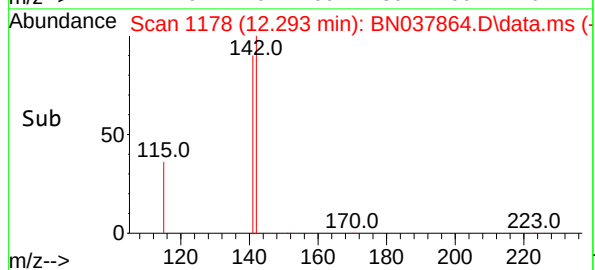
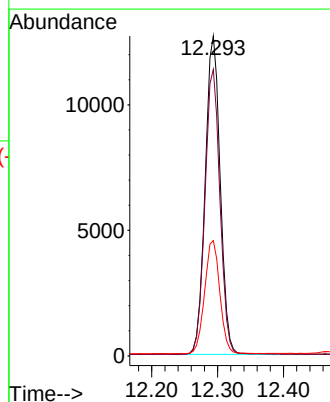
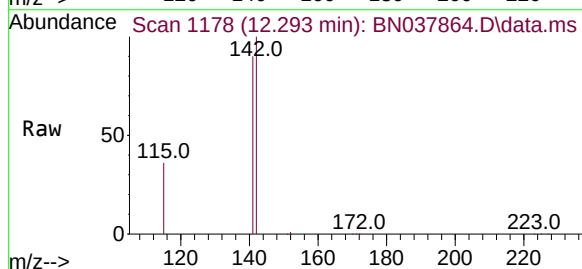
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

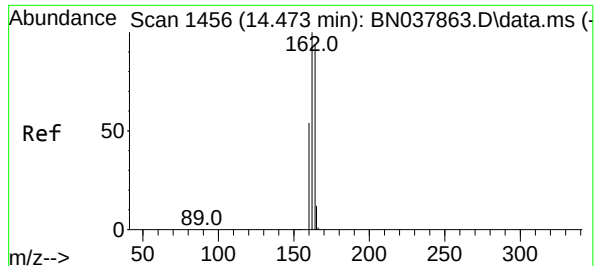
Tgt Ion:152 Resp: 14822
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#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

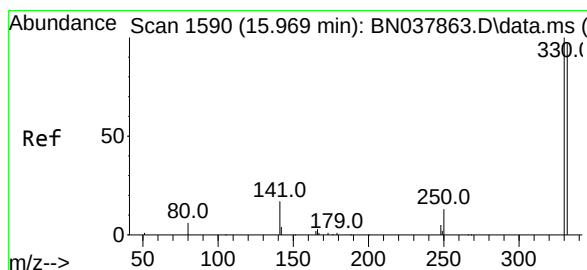
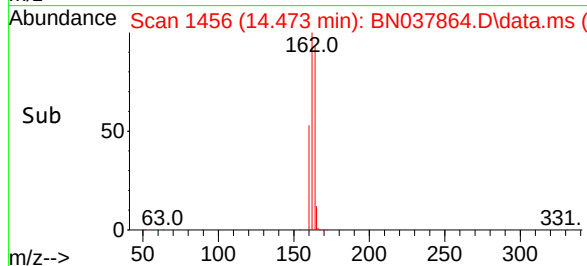
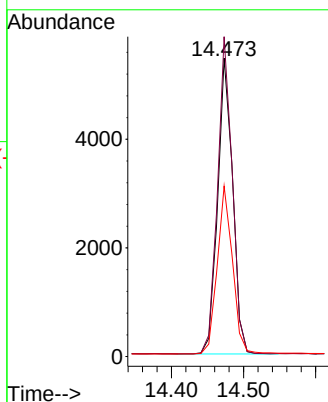
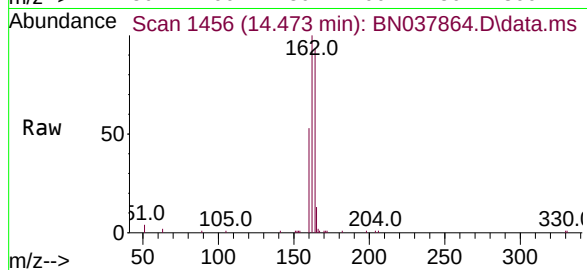
Tgt Ion:164 Resp: 7889

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

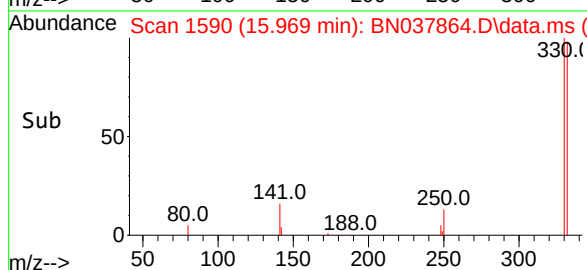
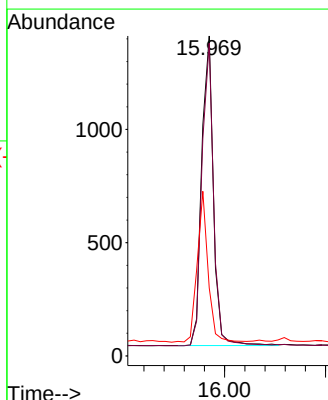
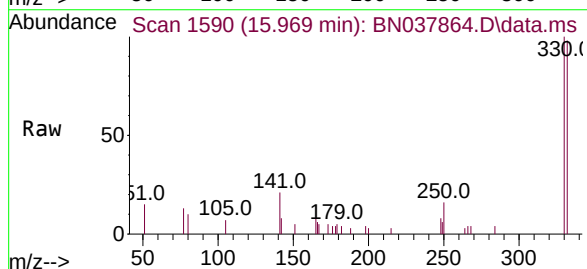
Tgt Ion:330 Resp: 2186

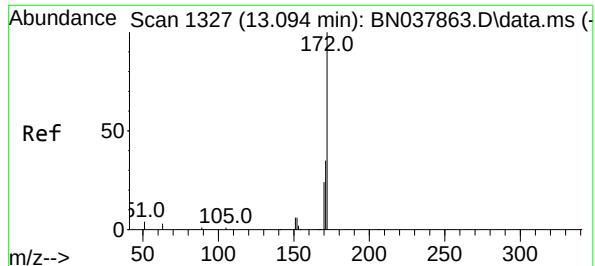
Ion Ratio Lower Upper

330 100

332 97.2 77.2 115.8

141 45.1 37.2 55.8

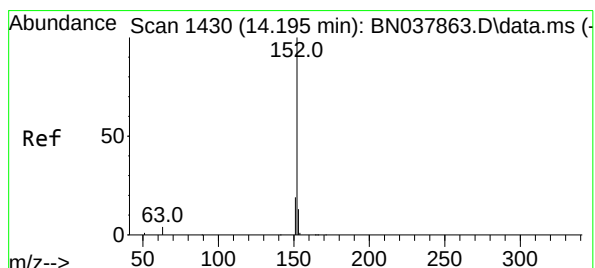
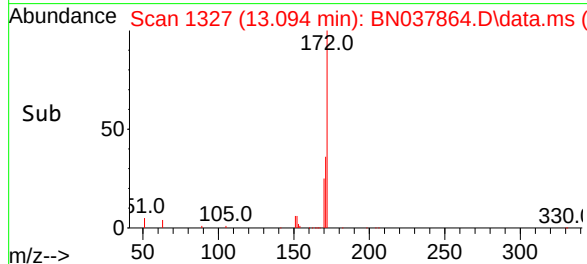
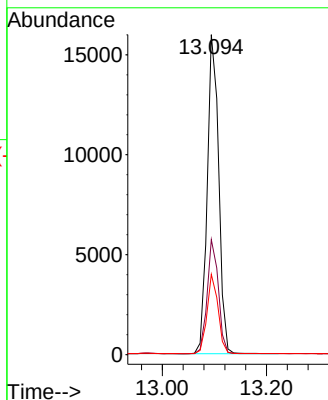
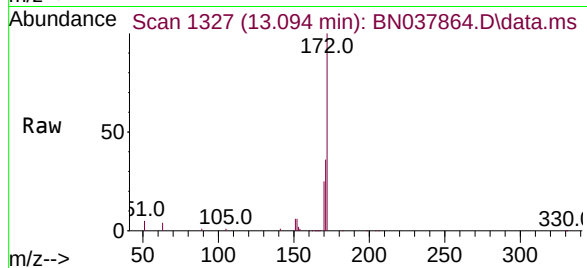




#15
2-Fluorobiphenyl
Concen: 0.756 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

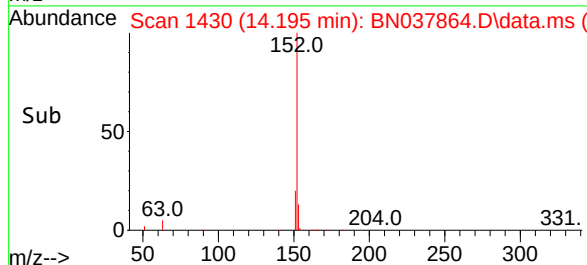
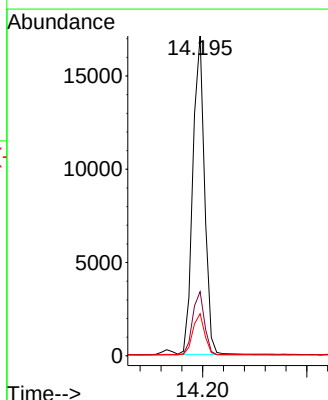
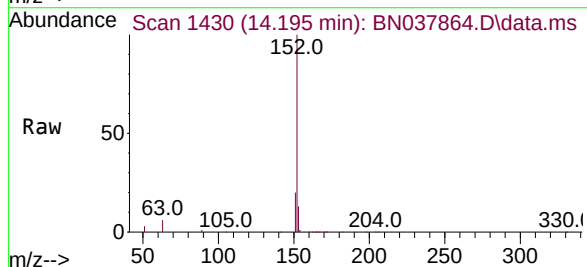
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

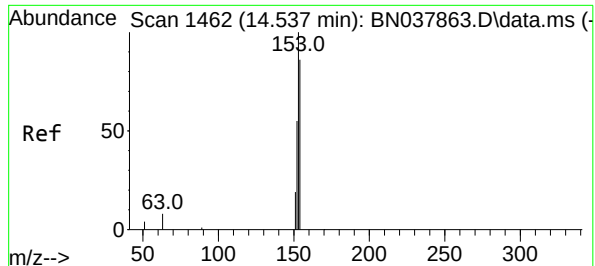
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.1	19.7	29.5



#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	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.9	10.5	15.7





#17

Acenaphthene

Concen: 0.747 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

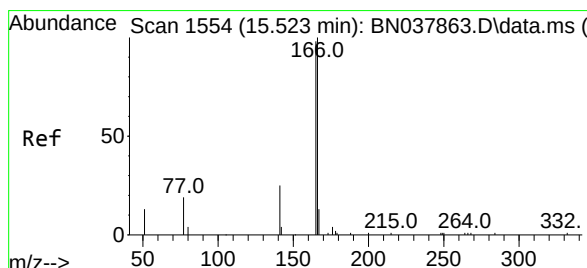
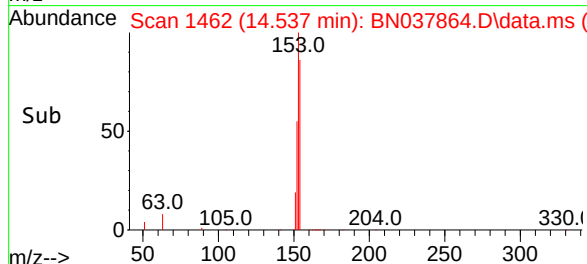
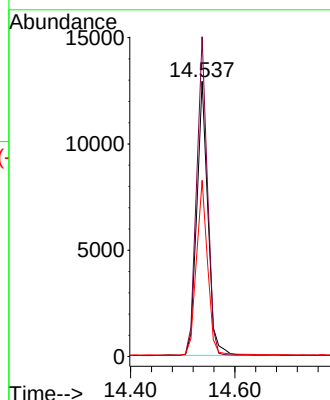
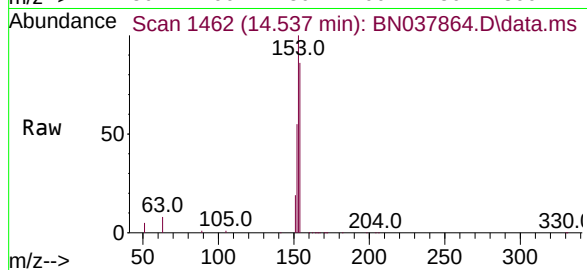
Tgt Ion:154 Resp: 19057

Ion Ratio Lower Upper

154 100

153 112.9 90.5 135.7

152 64.2 51.8 77.8



#18

Fluorene

Concen: 0.749 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

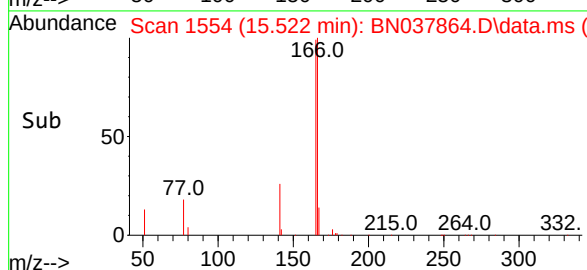
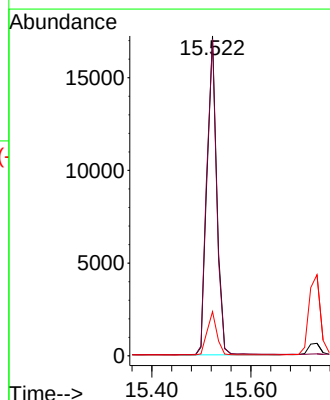
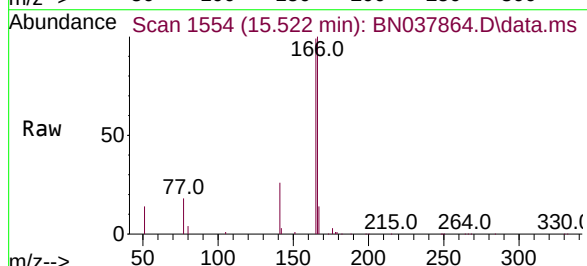
Tgt Ion:166 Resp: 23130

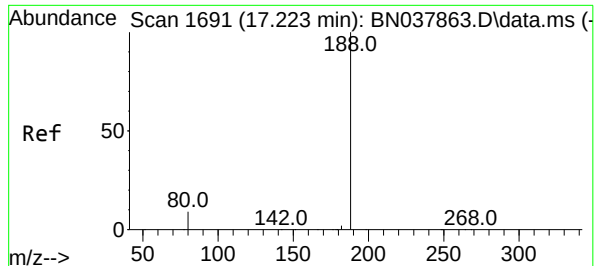
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

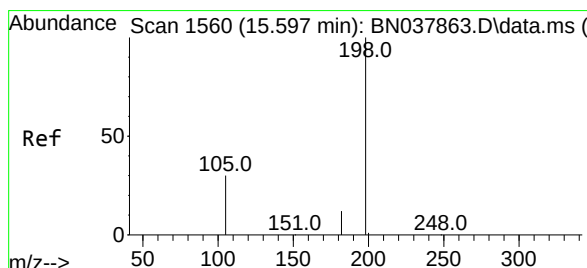
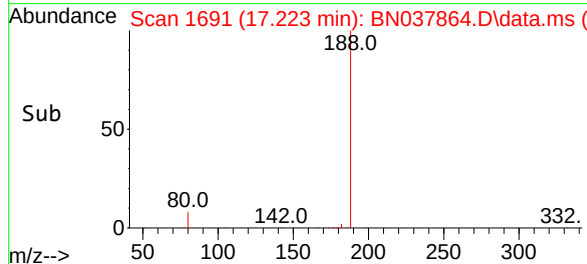
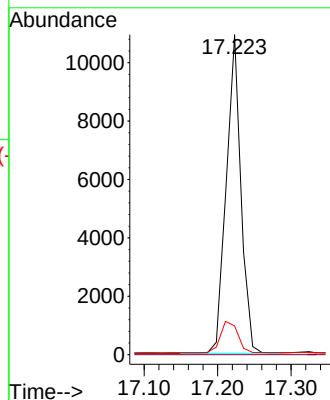
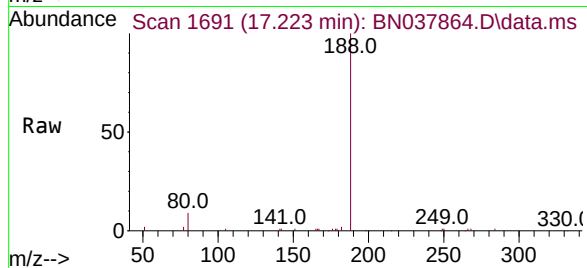
Tgt Ion:188 Resp: 15207

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.755 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

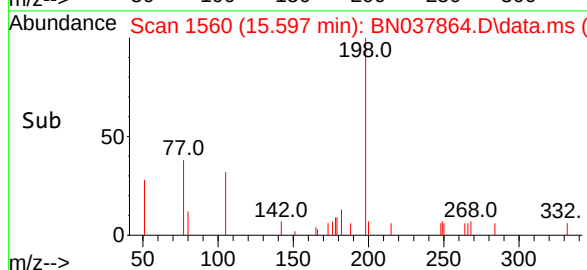
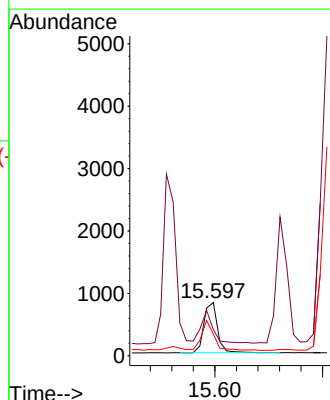
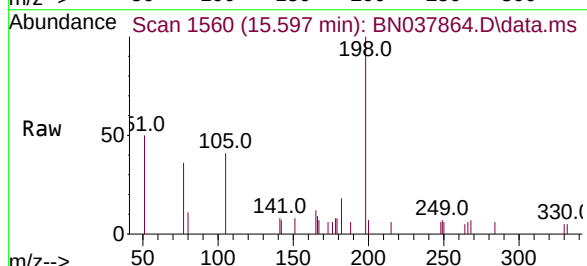
Tgt Ion:198 Resp: 1414

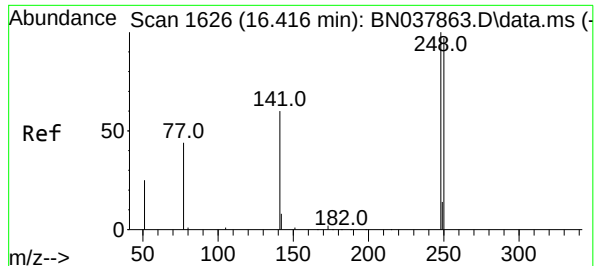
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

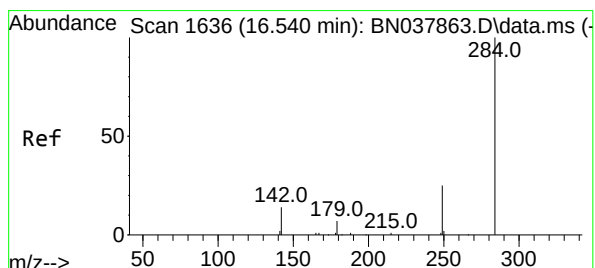
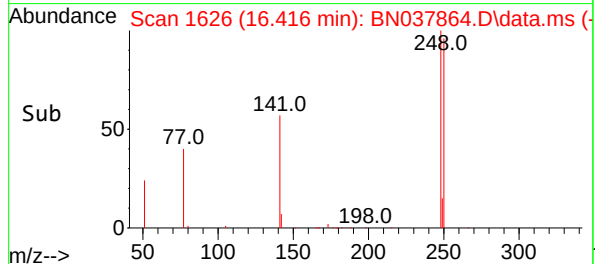
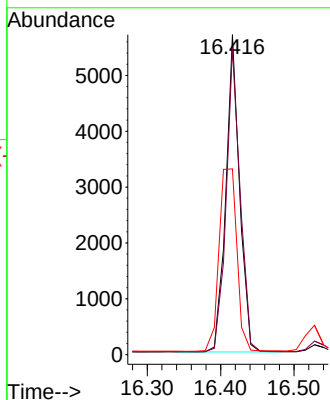
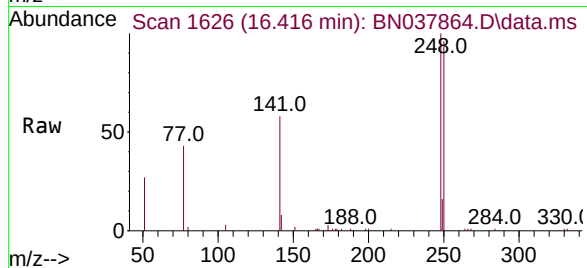




#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

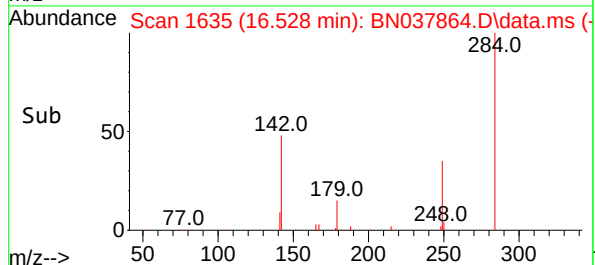
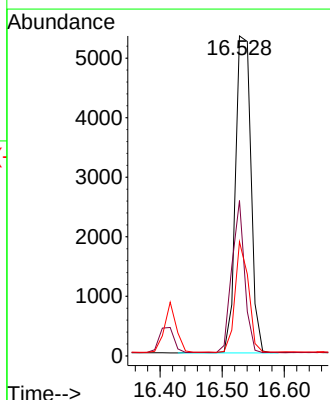
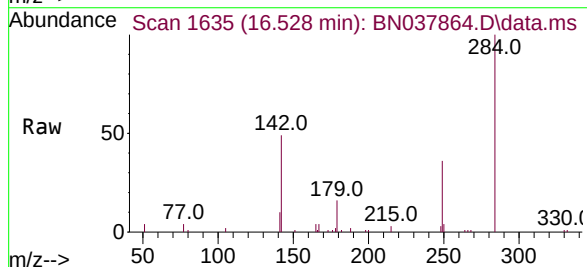
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

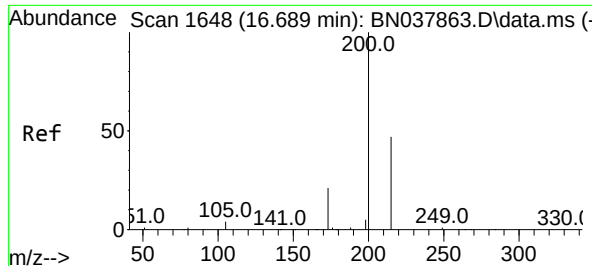
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2



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

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

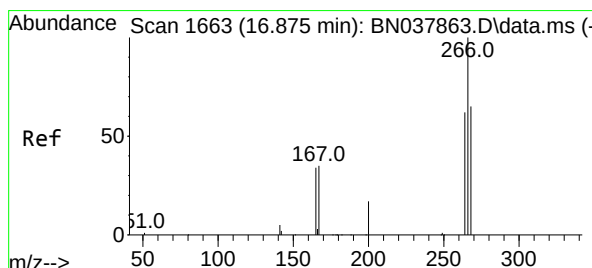
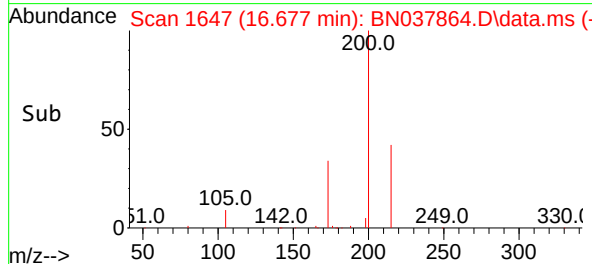
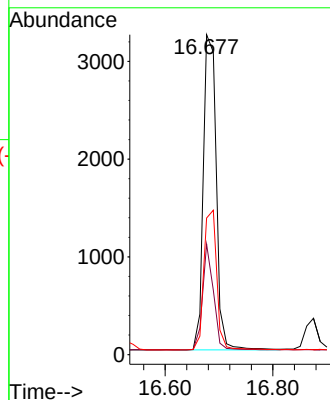
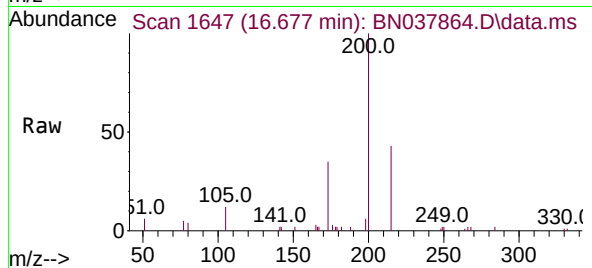




#23
Atrazine
Concen: 0.716 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

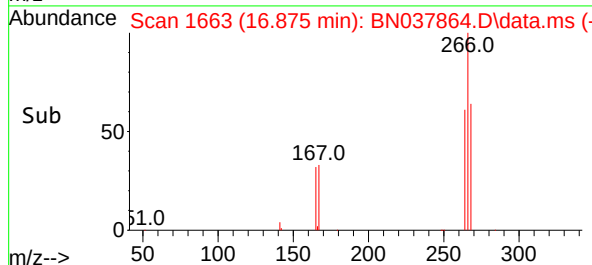
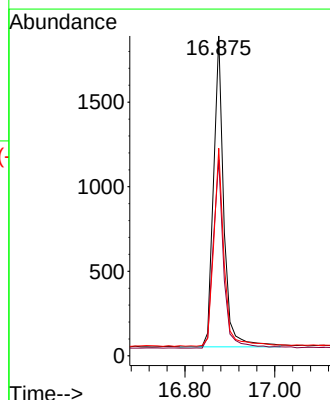
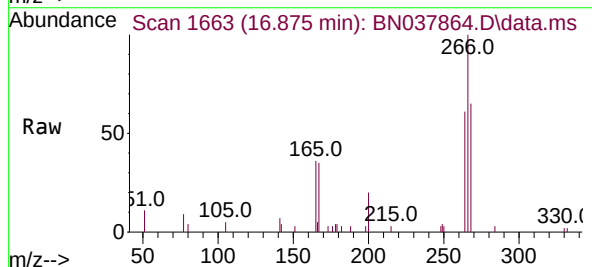
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

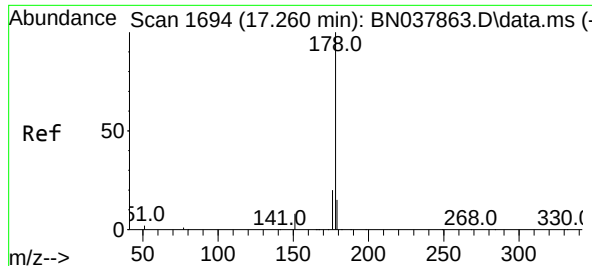
Tgt Ion:200 Resp: 5405
Ion Ratio Lower Upper
200 100
173 34.5 18.3 27.5#
215 42.7 38.6 58.0



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

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





#25

Phenanthrene

Concen: 0.744 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

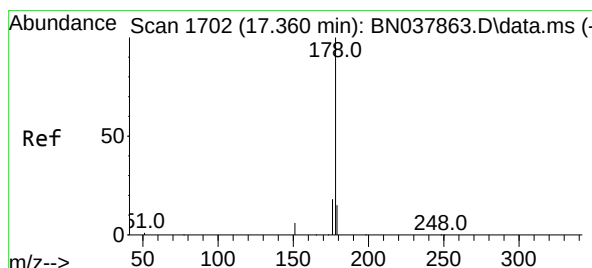
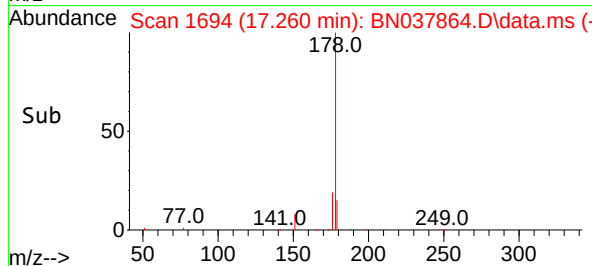
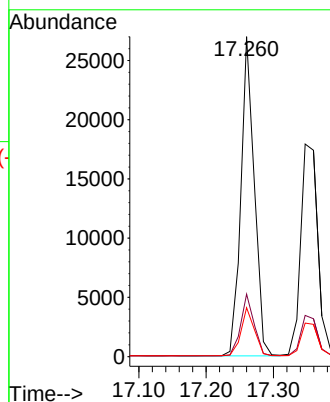
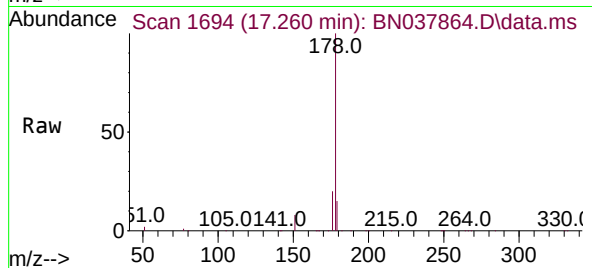
Tgt Ion:178 Resp: 37218

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 0.740 ng

RT: 17.347 min Scan# 1701

Delta R.T. -0.012 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

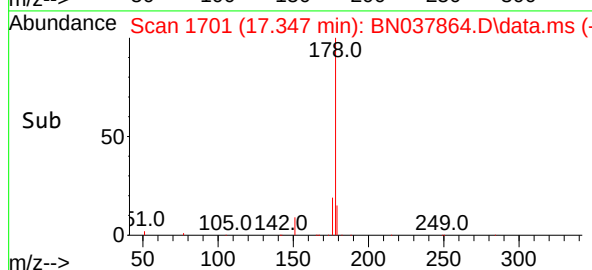
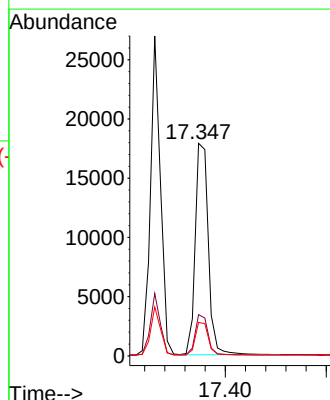
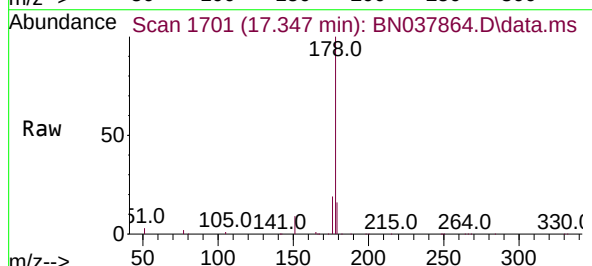
Tgt Ion:178 Resp: 32138

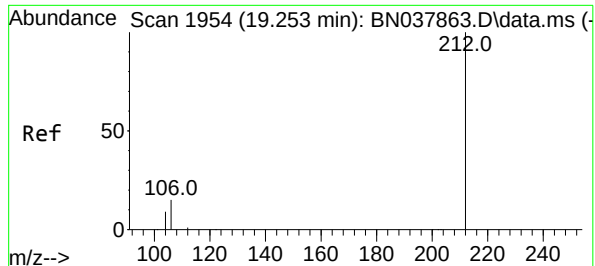
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.715 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

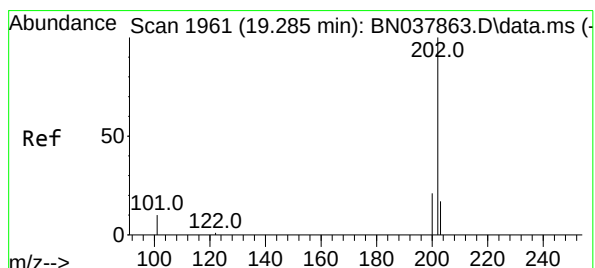
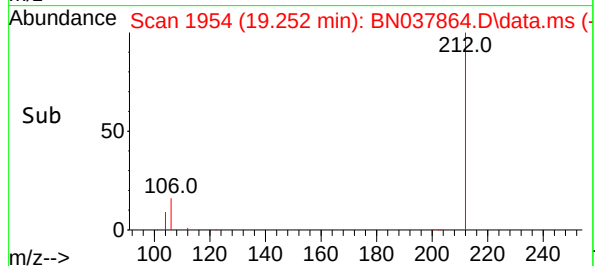
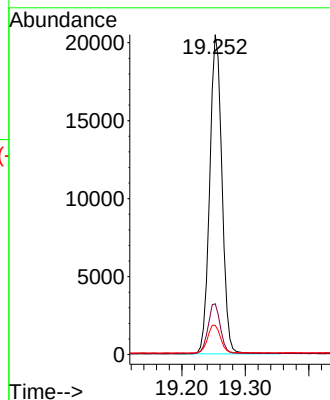
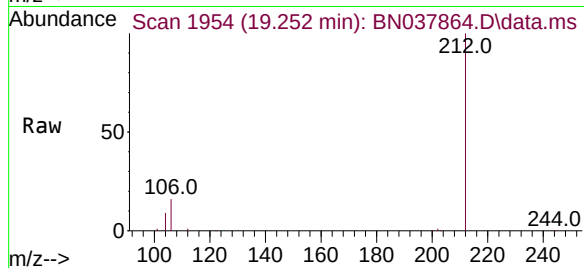
Tgt Ion:212 Resp: 27365

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.749 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

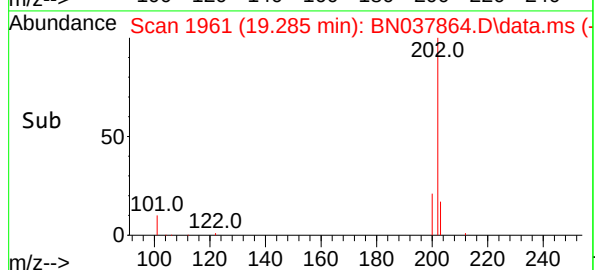
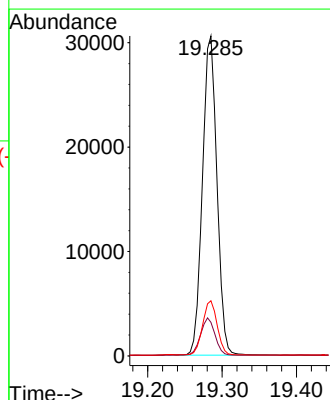
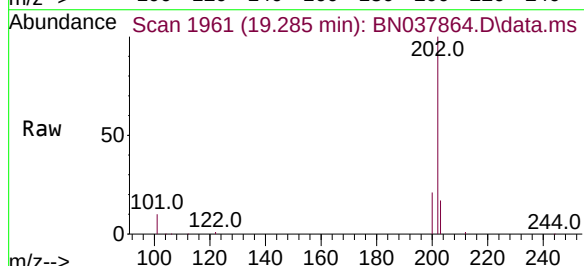
Tgt Ion:202 Resp: 41292

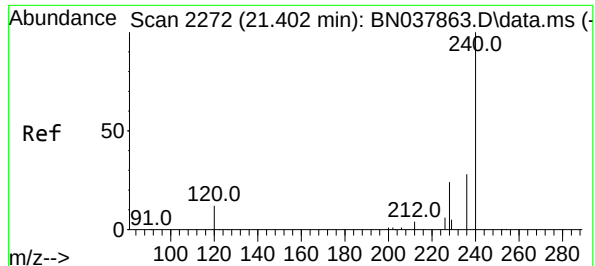
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

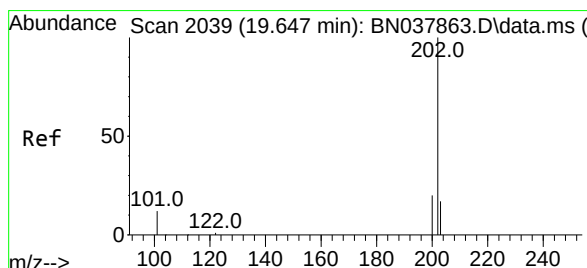
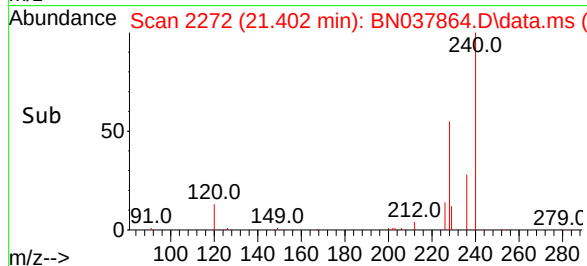
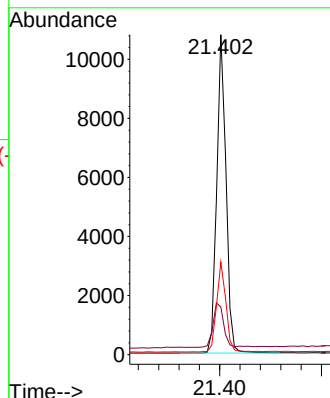
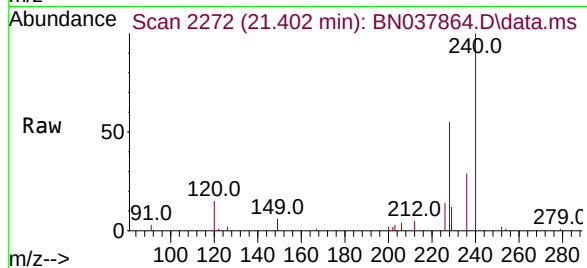
Tgt Ion:240 Resp: 13674

Ion Ratio Lower Upper

240 100

120 14.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.748 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

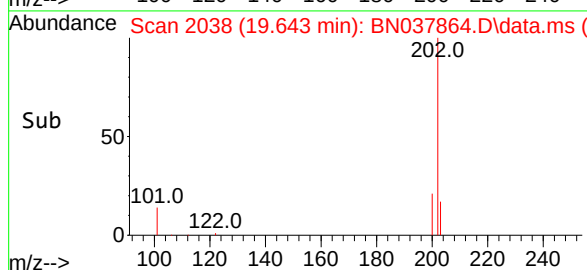
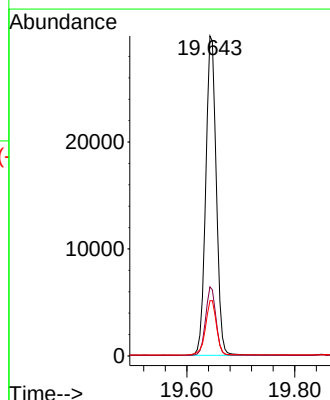
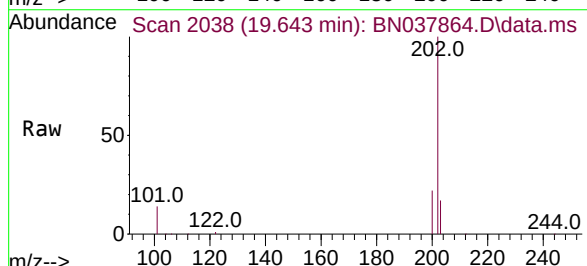
Tgt Ion:202 Resp: 40377

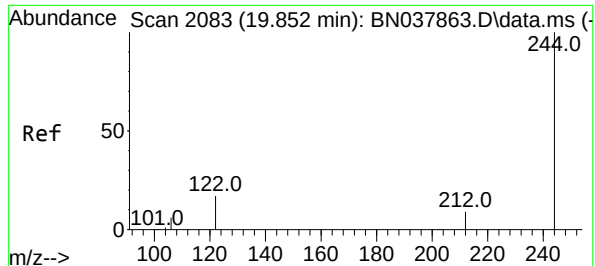
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.4

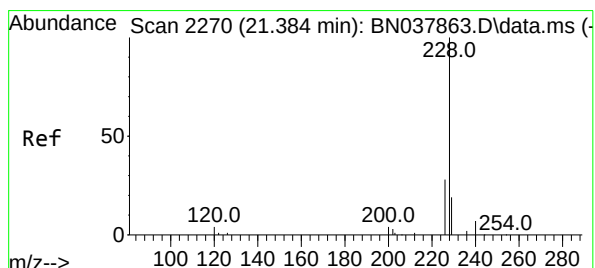
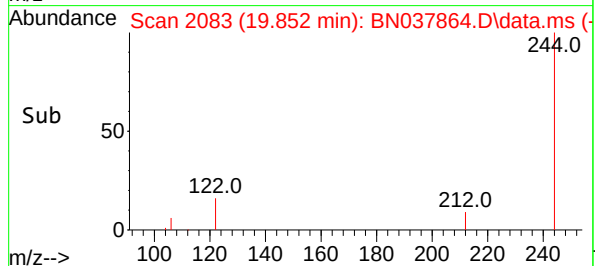
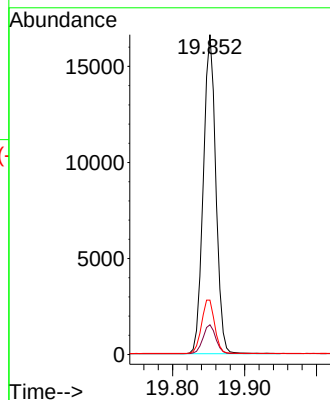
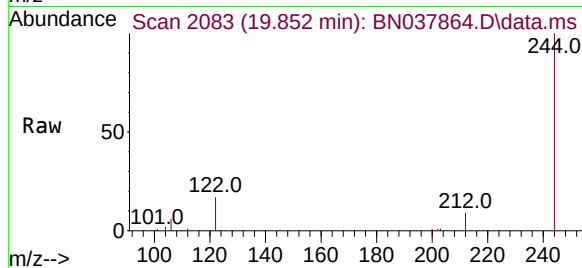




#31
Terphenyl-d14
Concen: 0.738 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

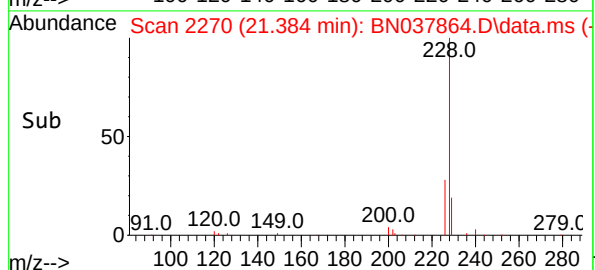
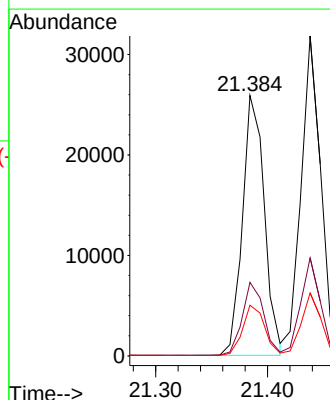
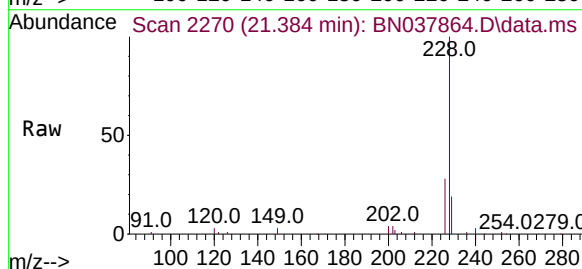
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

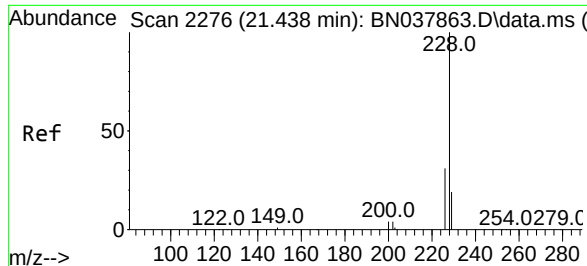
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	17.0	13.9	20.9



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

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





#33

Chrysene

Concen: 0.765 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

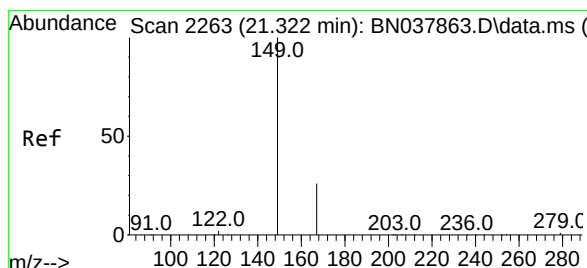
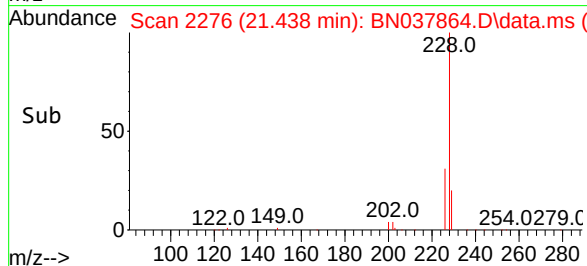
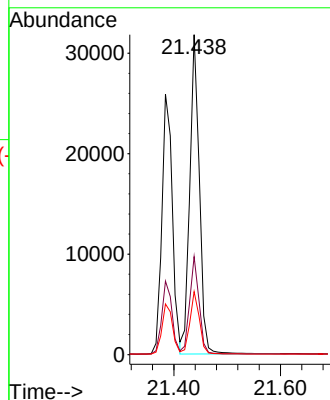
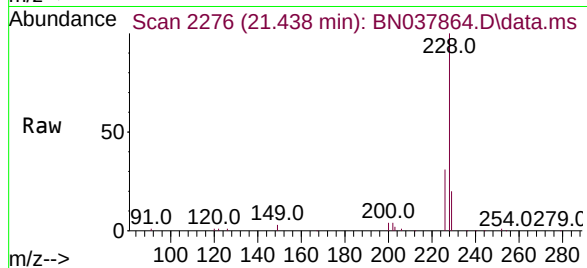
Tgt Ion:228 Resp: 39541

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

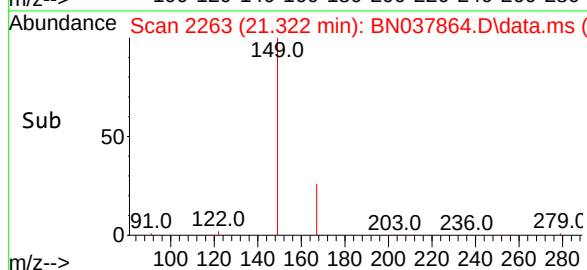
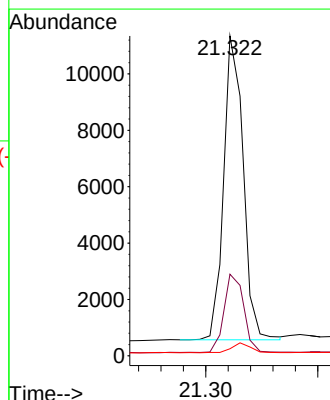
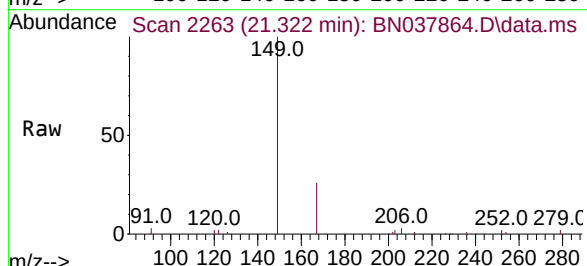
Tgt Ion:149 Resp: 13026

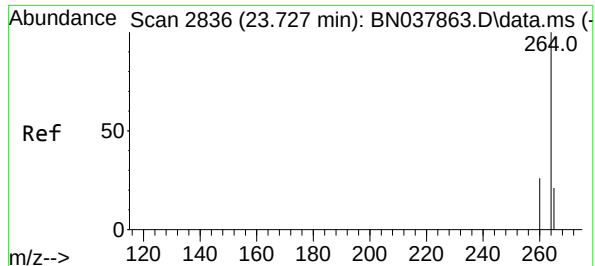
Ion Ratio Lower Upper

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

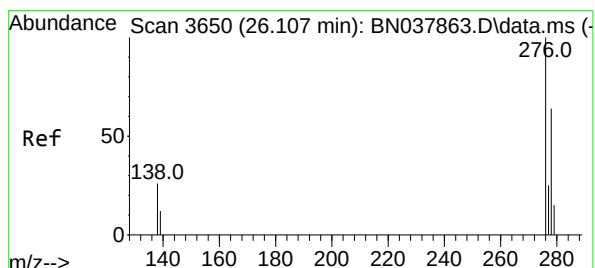
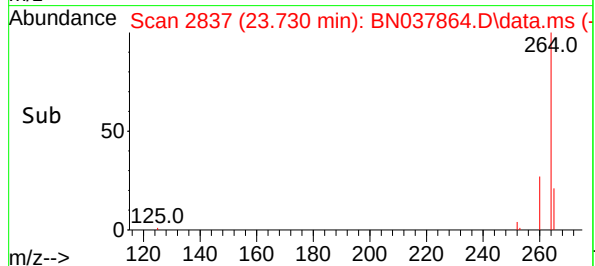
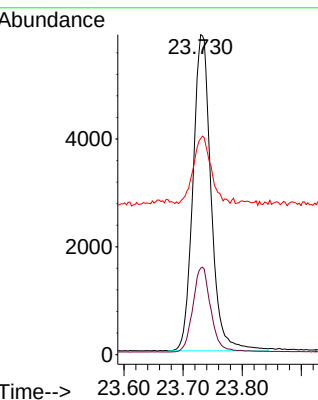
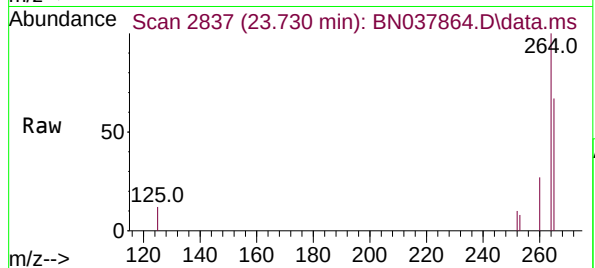
Tgt Ion:264 Resp: 12464

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

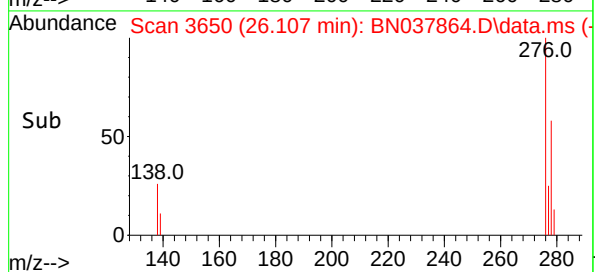
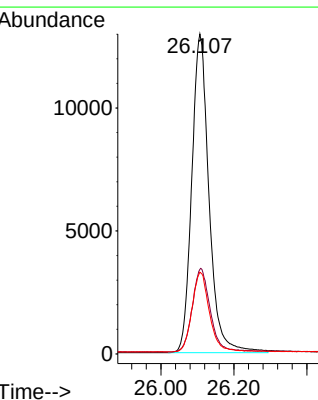
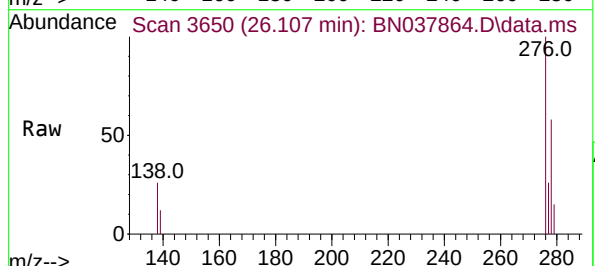
Tgt Ion:276 Resp: 42560

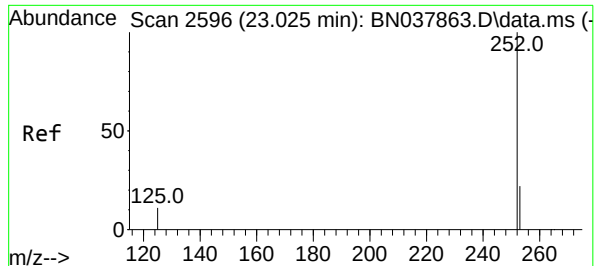
Ion Ratio Lower Upper

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

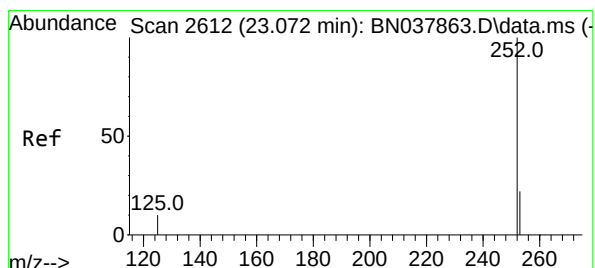
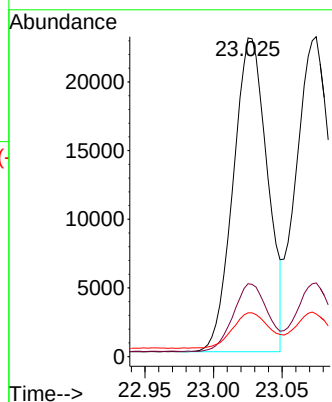
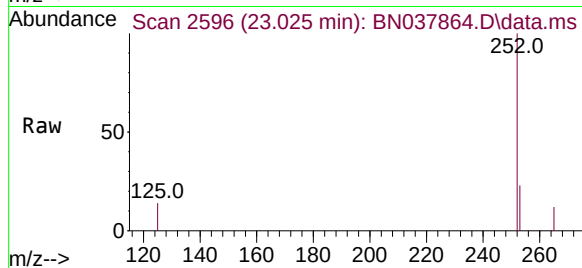
Tgt Ion:252 Resp: 39646

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

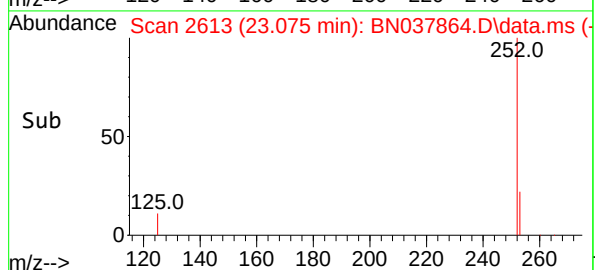
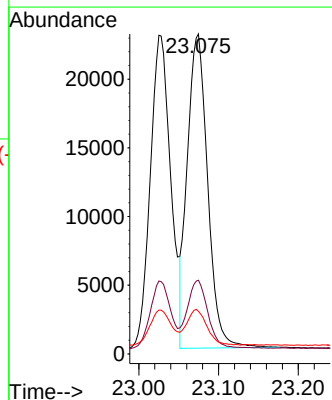
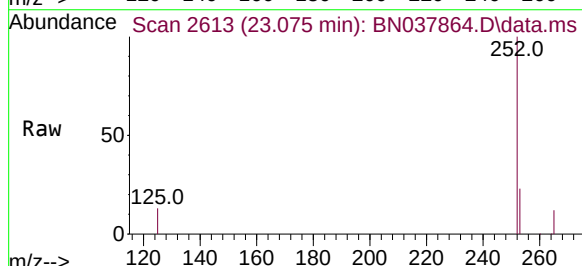
Tgt Ion:252 Resp: 40574

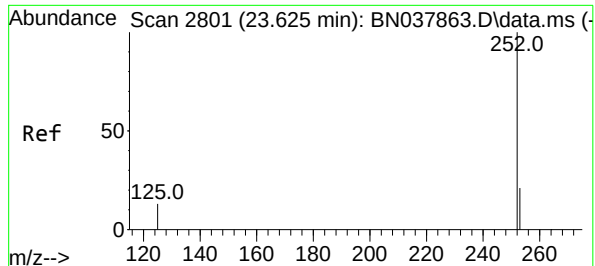
Ion Ratio Lower Upper

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

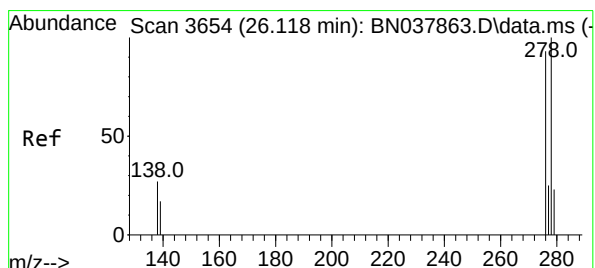
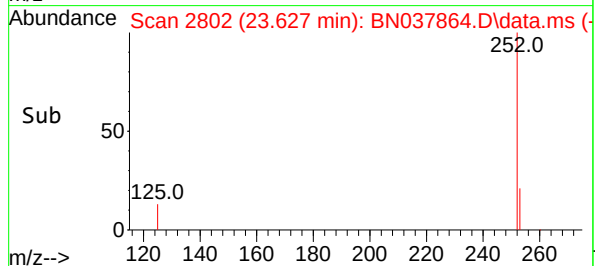
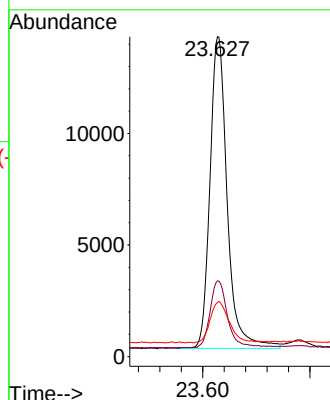
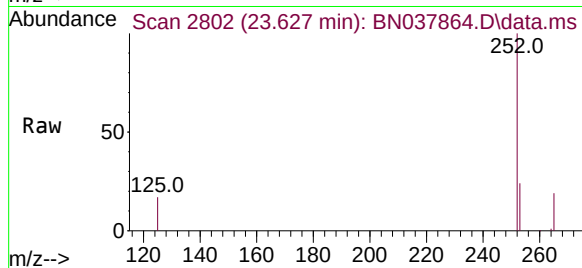
Tgt Ion:252 Resp: 31265

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

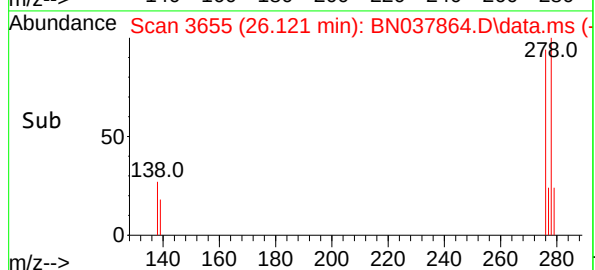
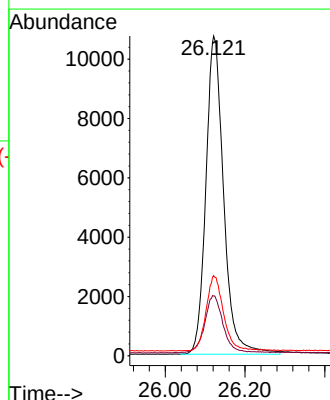
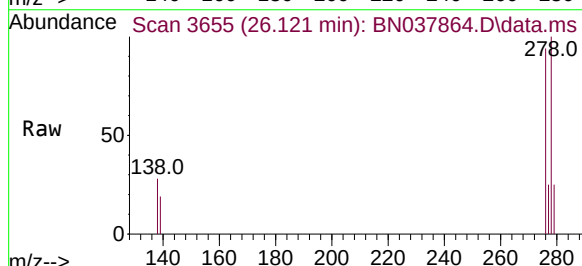
Tgt Ion:278 Resp: 33235

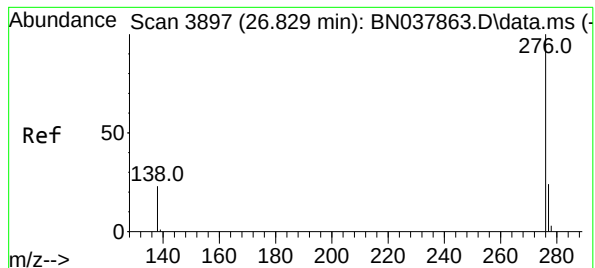
Ion Ratio Lower Upper

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

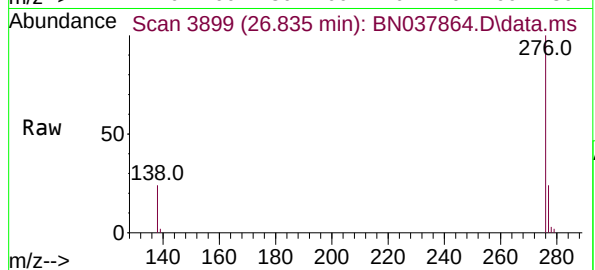
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



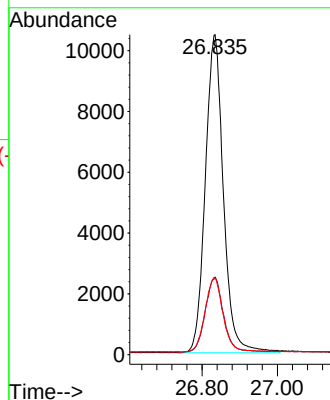
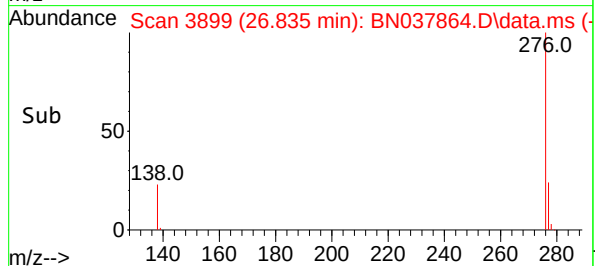
Tgt Ion:276 Resp: 34817

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

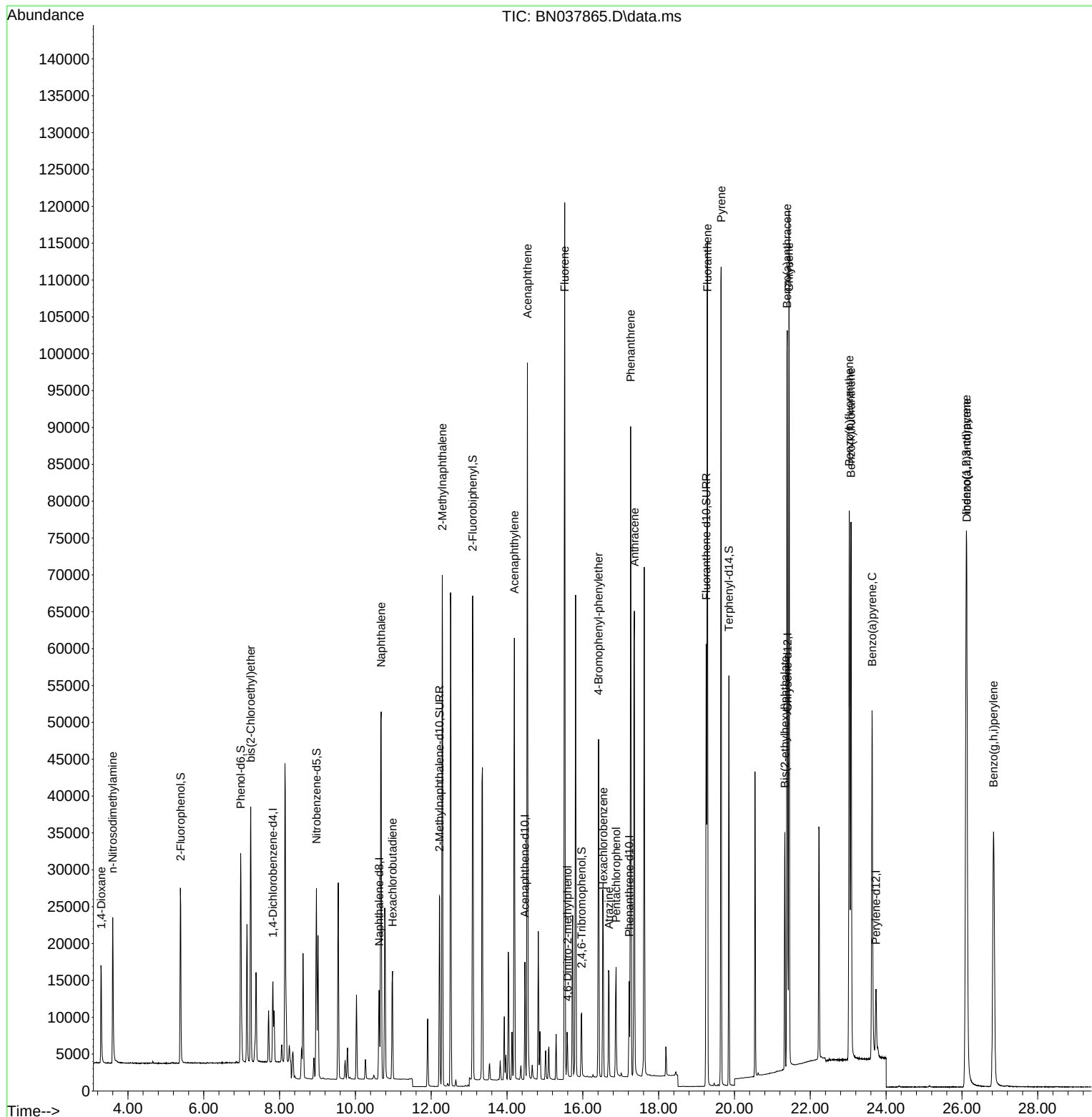
Quant Time: Sep 23 16:22:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

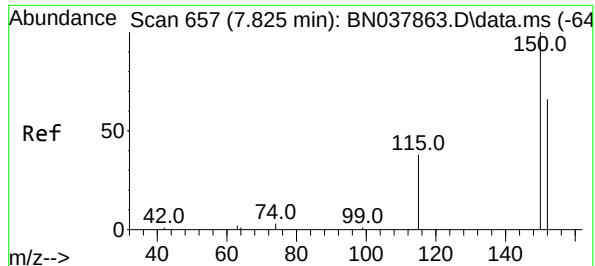
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng	0.00
29) Chrysene-d12	21.402	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
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- 18

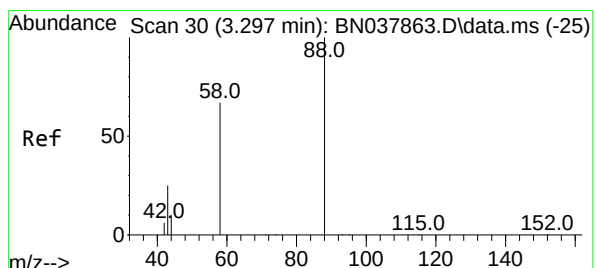
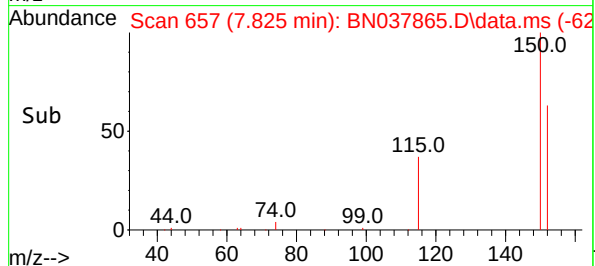
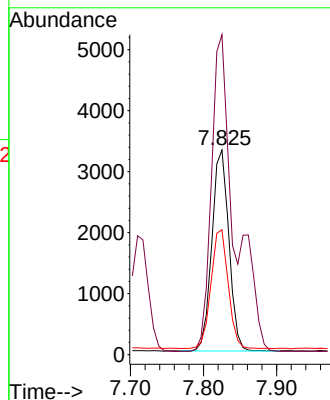
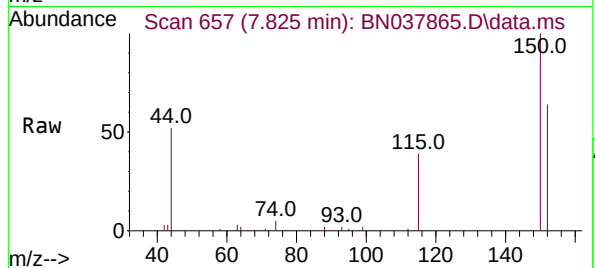




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

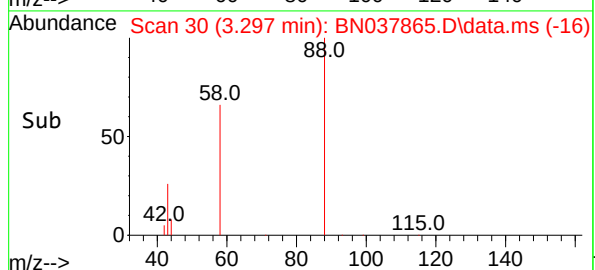
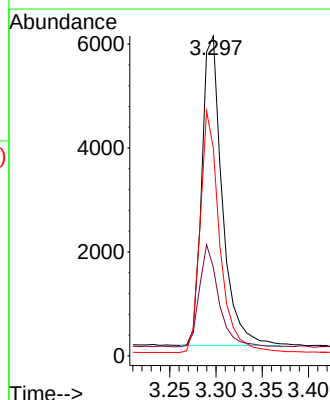
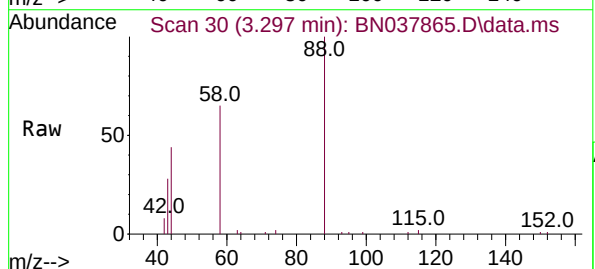
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

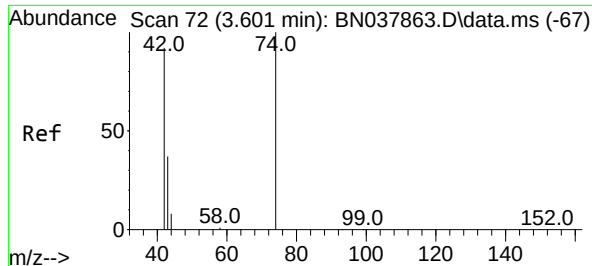
Tgt Ion:152 Resp: 5367
Ion Ratio Lower Upper
152 100
150 156.4 121.0 181.4
115 61.0 47.4 71.0



#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

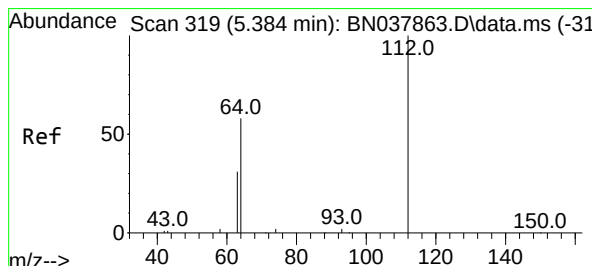
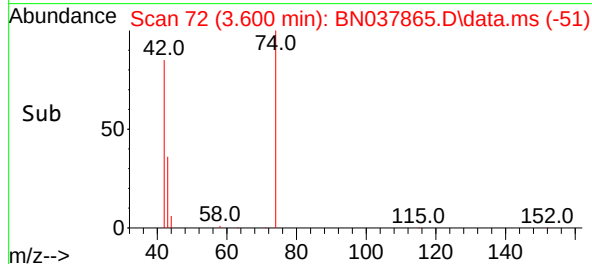
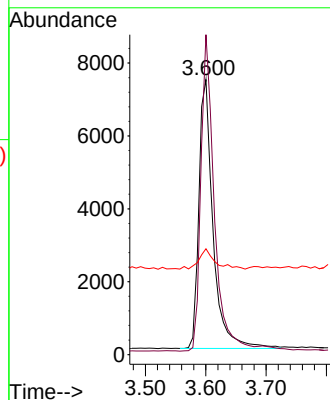
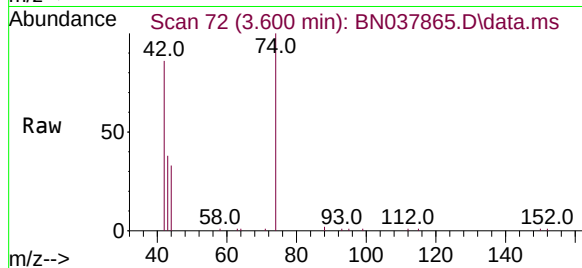




#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

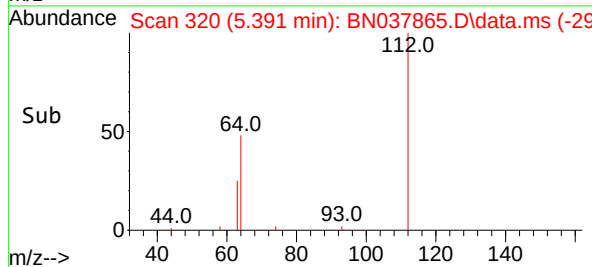
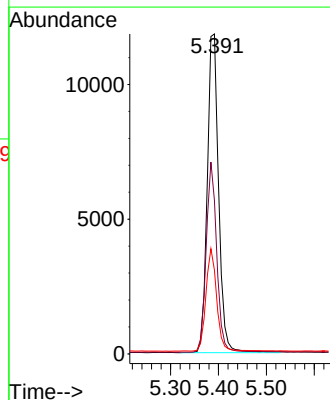
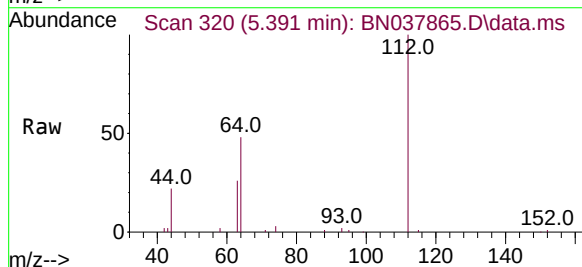
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

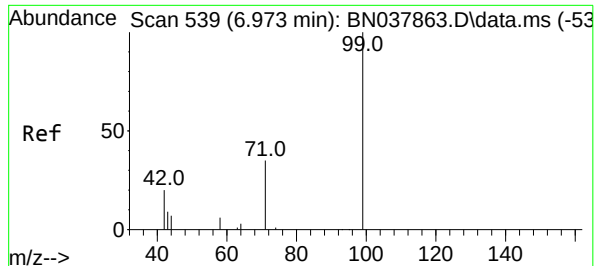
Tgt Ion:	42	Resp:	12048
Ion	Ratio	Lower	Upper
42	100		
74	110.9	93.4	140.0
44	8.4	22.2	33.4



#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

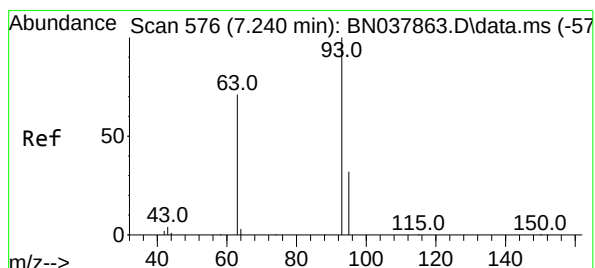
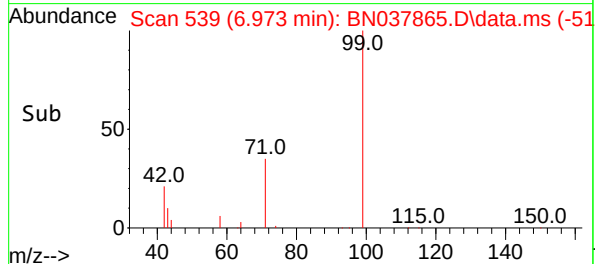
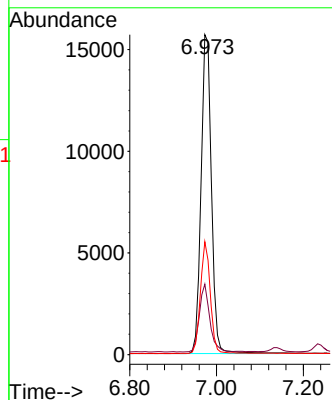
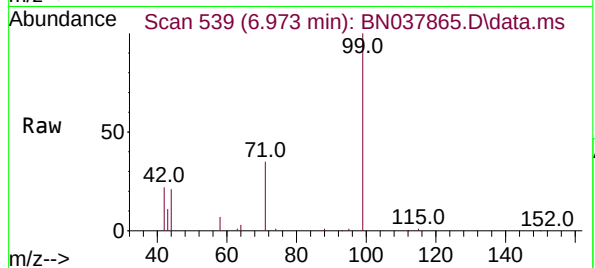




#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

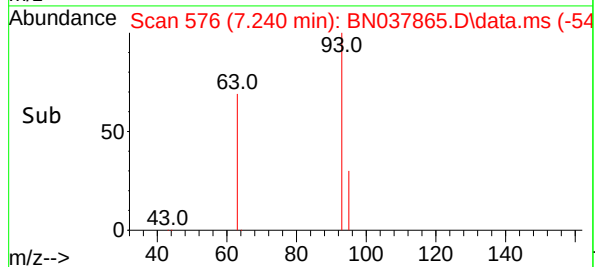
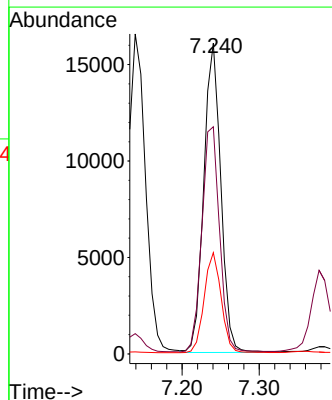
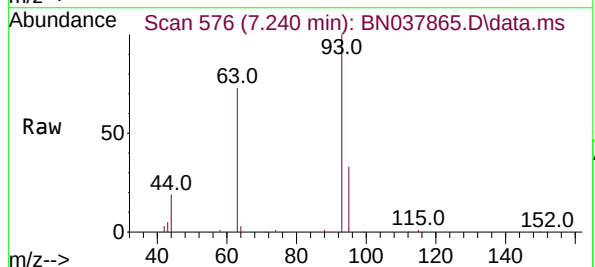
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

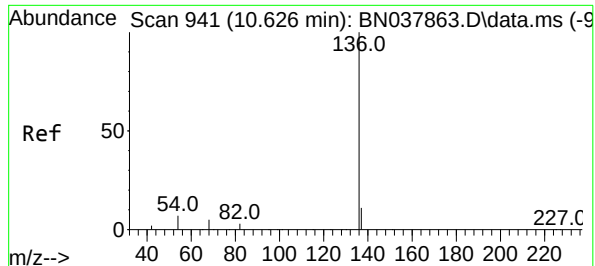
Tgt Ion: 99 Resp: 26005
Ion Ratio Lower Upper
99 100
42 21.3 17.2 25.8
71 33.5 27.3 40.9



#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: 93 Resp: 24687
Ion Ratio Lower Upper
93 100
63 75.4 60.1 90.1
95 32.1 25.4 38.2

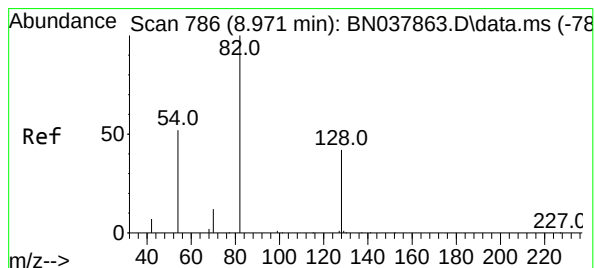
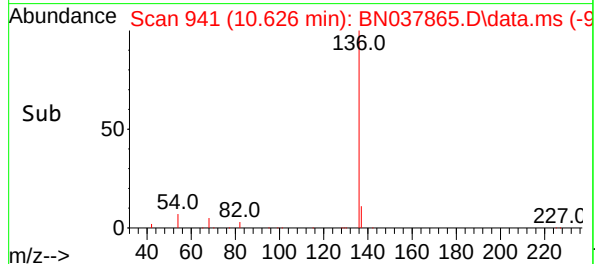
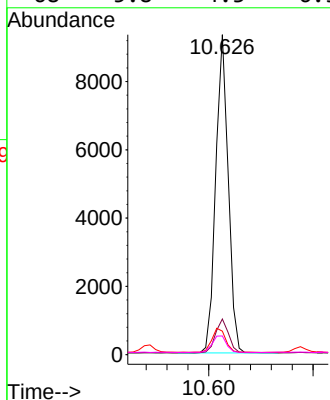
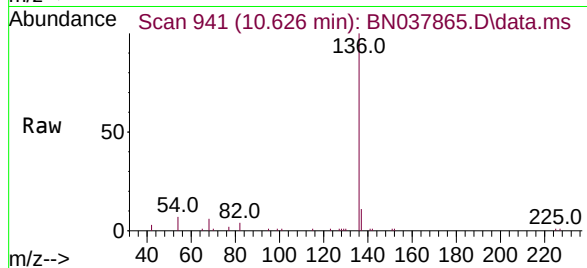




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

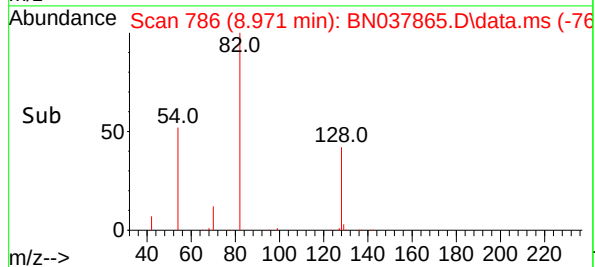
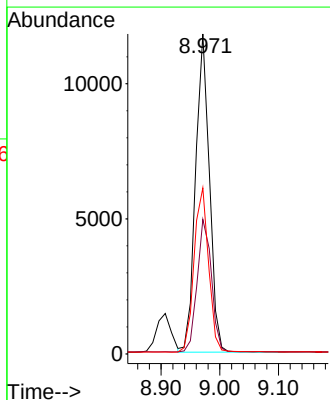
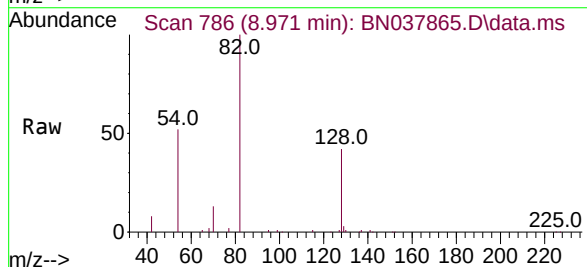
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

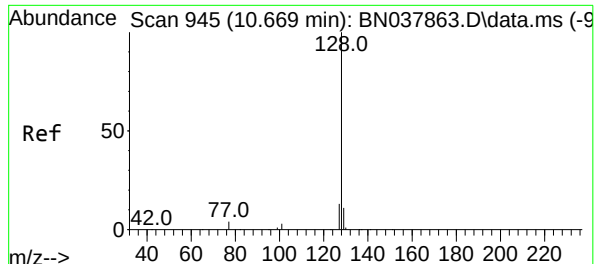
Tgt Ion:136	Resp:	15494
Ion	Ratio	Lower Upper
136	100	
137	11.1	9.0 13.4
54	7.3	5.8 8.8
68	5.8	4.3 6.5



#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

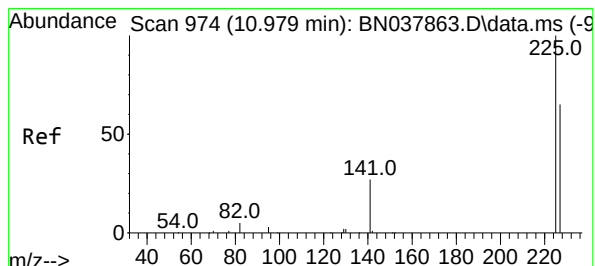
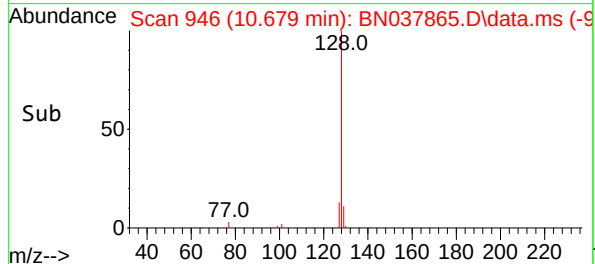
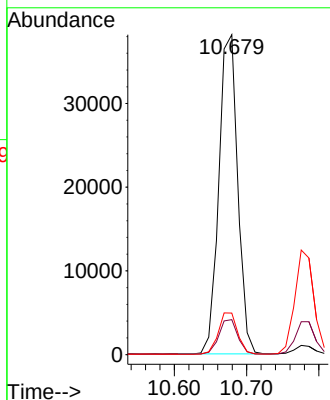
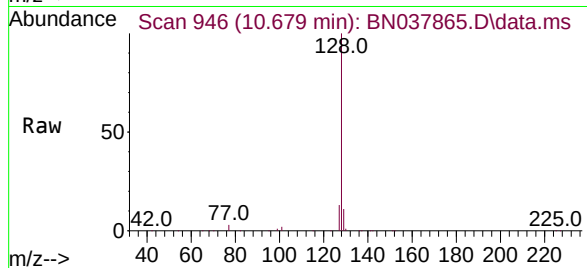




#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 945
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

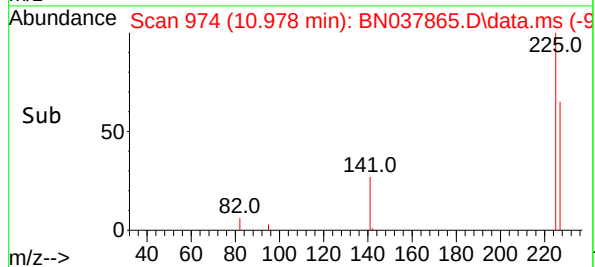
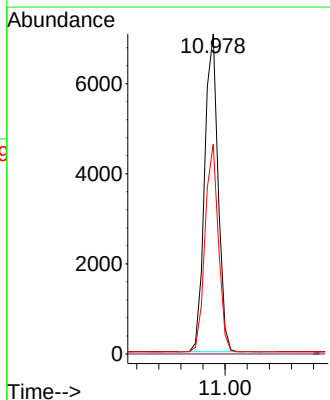
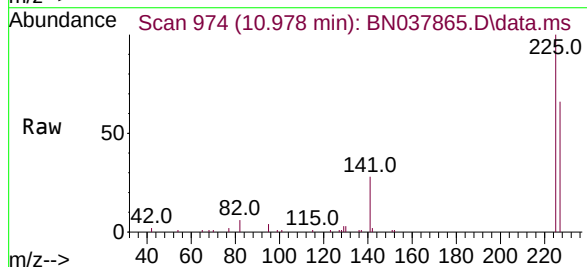
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

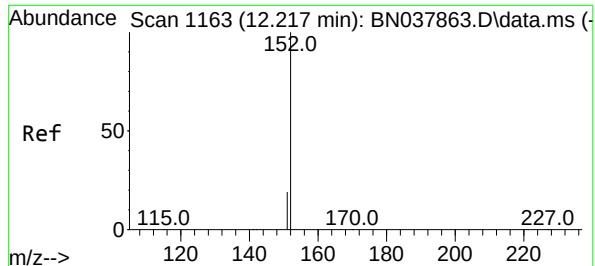
Tgt Ion:128 Resp: 69620
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.0 11.0 16.6



#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

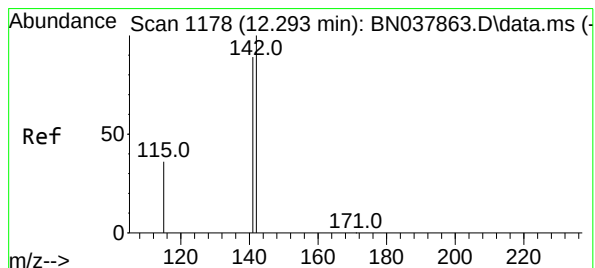
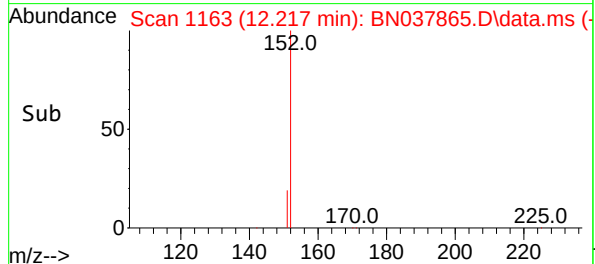
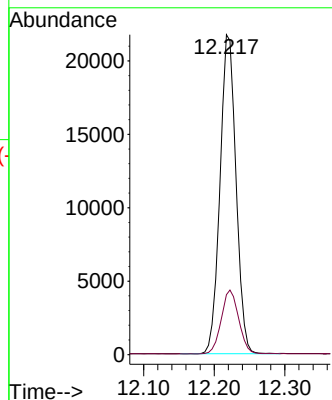
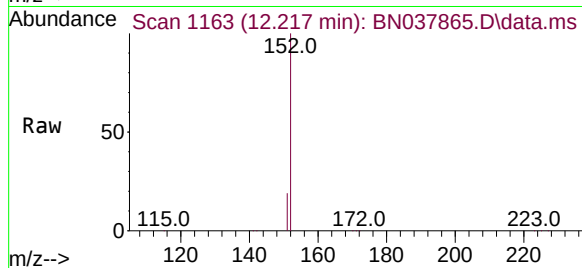




#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

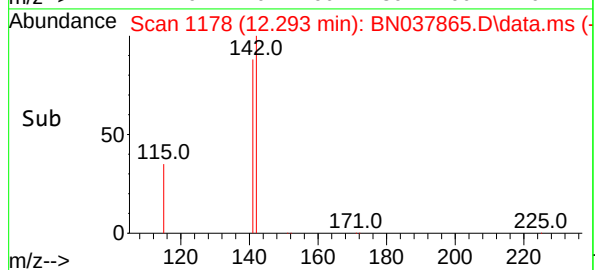
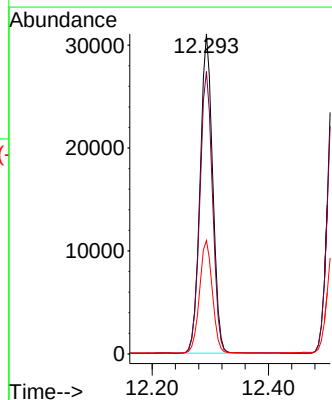
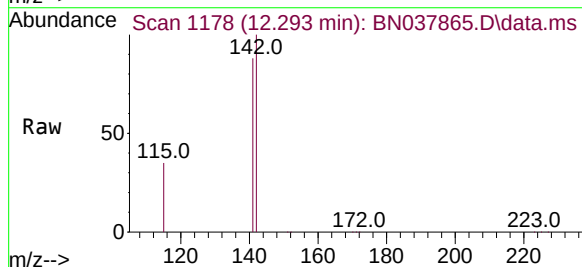
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

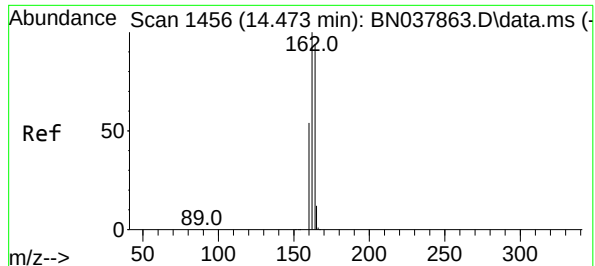
Tgt Ion:152 Resp: 34256
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#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

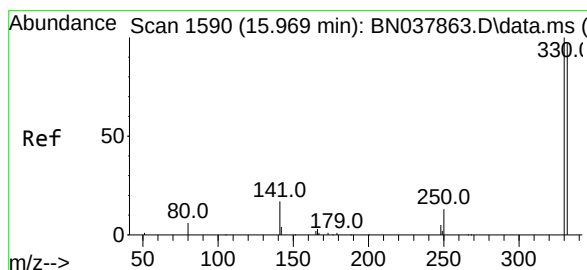
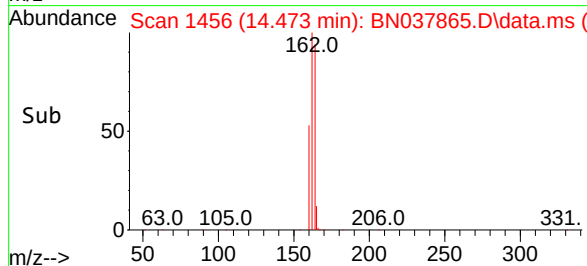
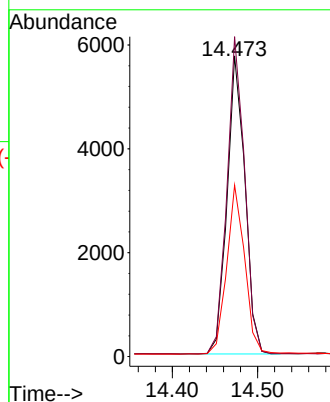
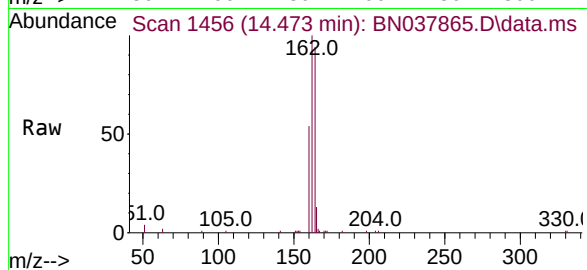
Tgt Ion:164 Resp: 8404

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

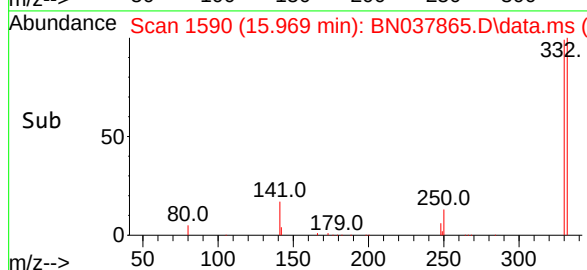
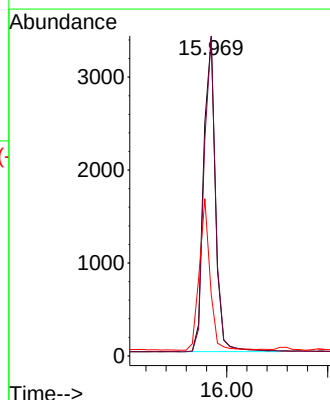
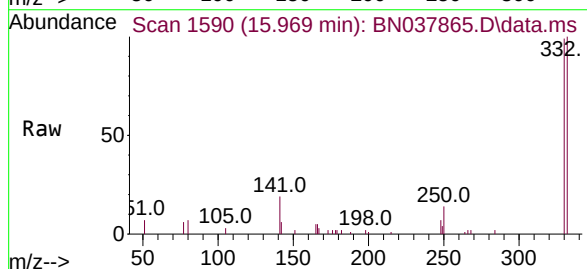
Tgt Ion:330 Resp: 5471

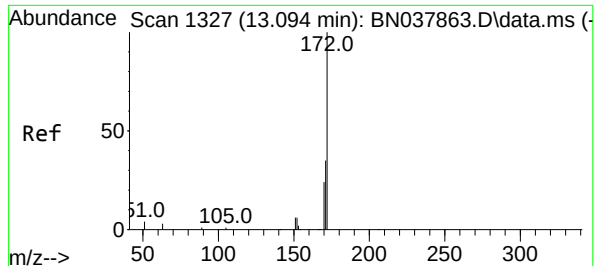
Ion Ratio Lower Upper

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

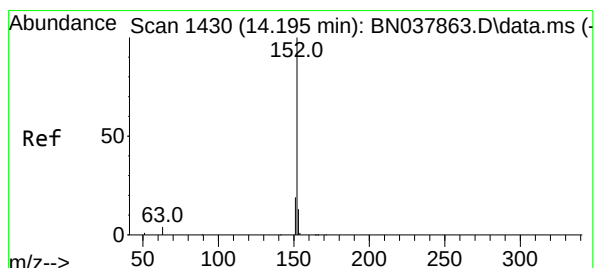
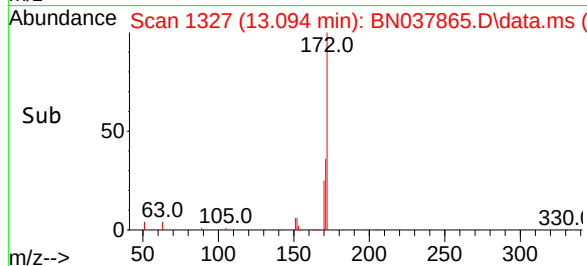
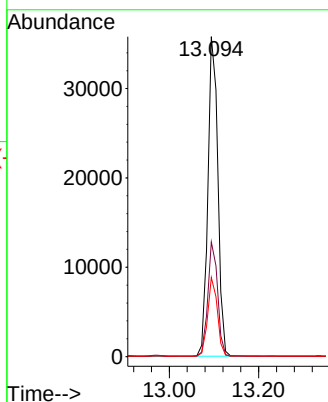
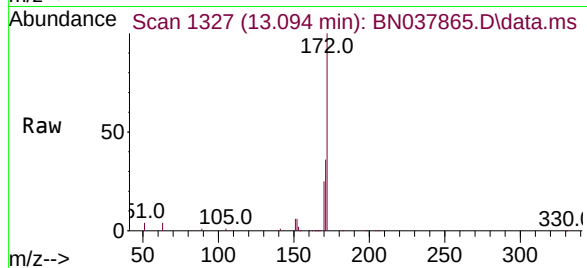
Tgt Ion:172 Resp: 55598

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

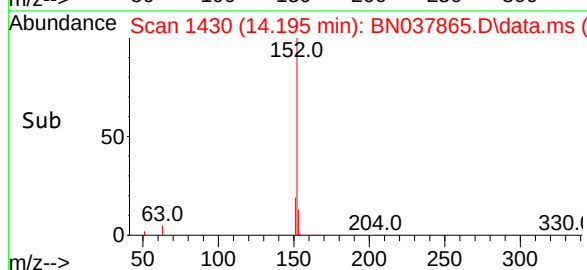
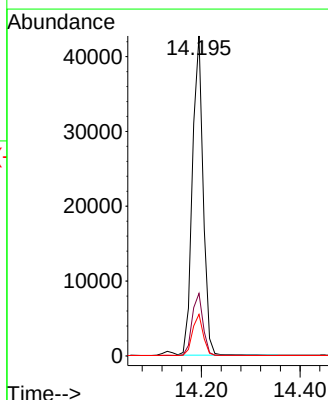
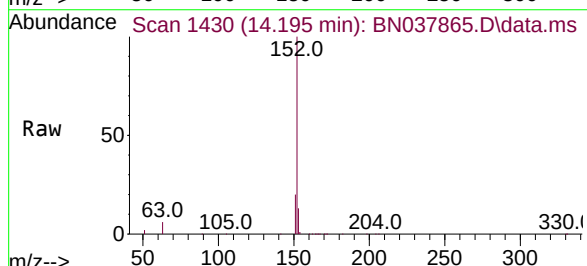
Tgt Ion:152 Resp: 64093

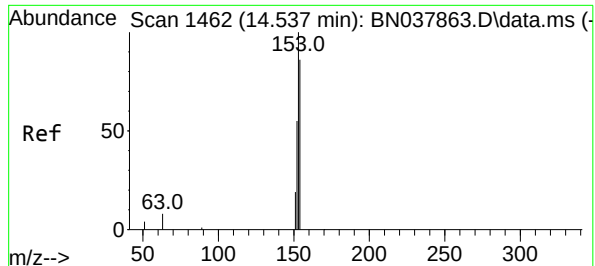
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7

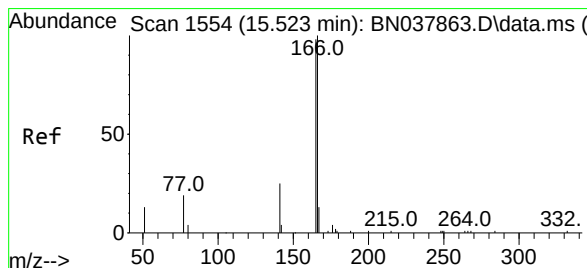
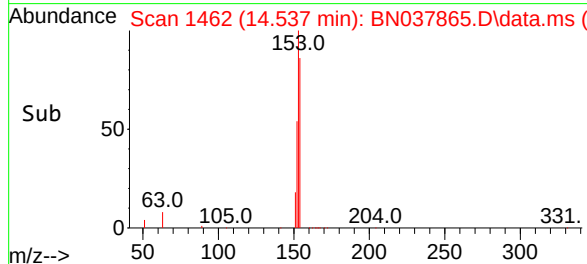
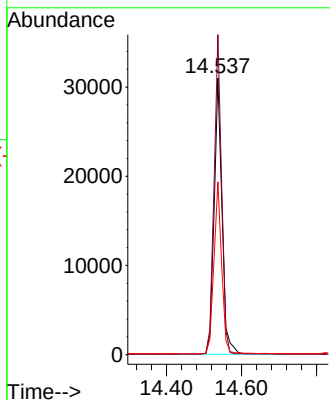
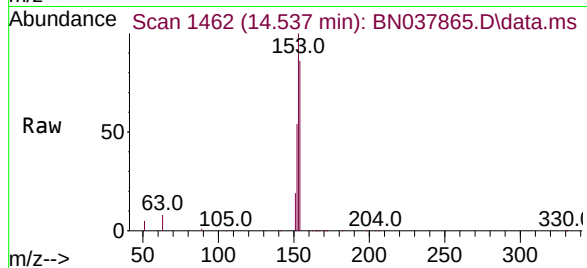




#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

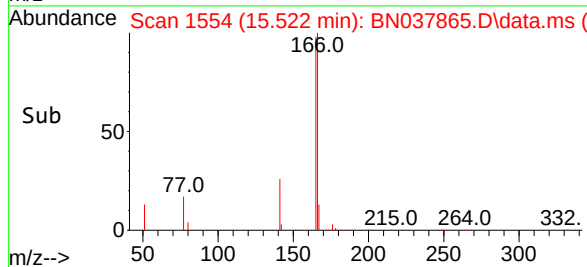
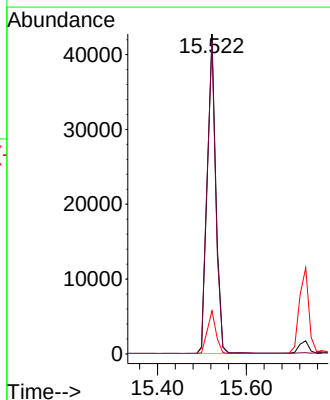
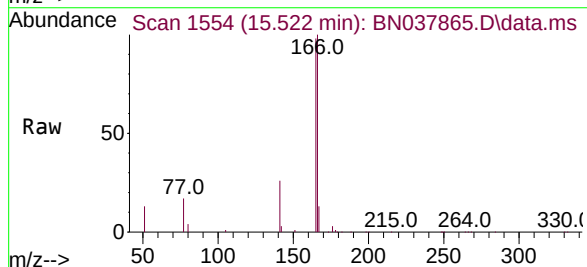
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

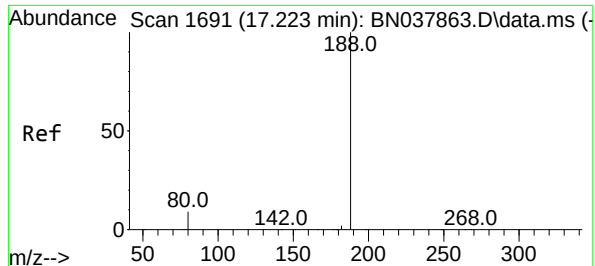
Tgt Ion:154 Resp: 45411
Ion Ratio Lower Upper
154 100
153 110.4 90.5 135.7
152 61.0 51.8 77.8



#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

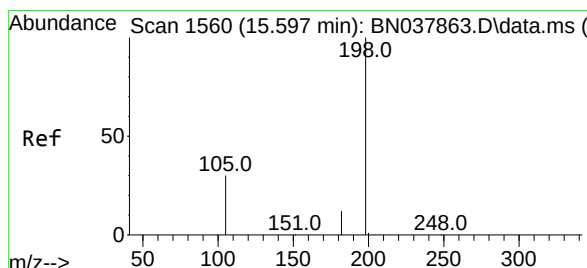
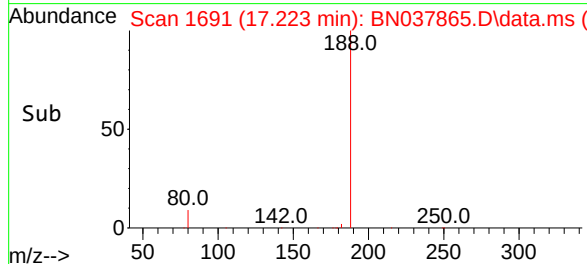
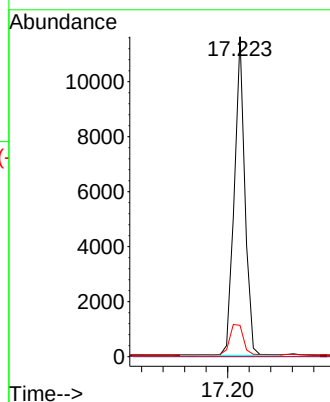
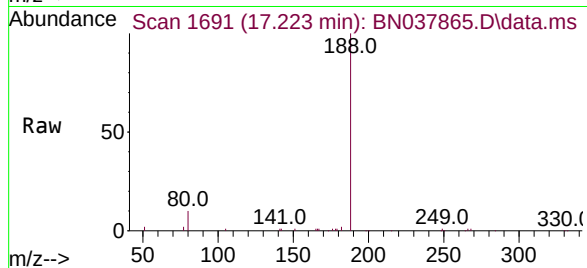
Tgt Ion:188 Resp: 15875

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

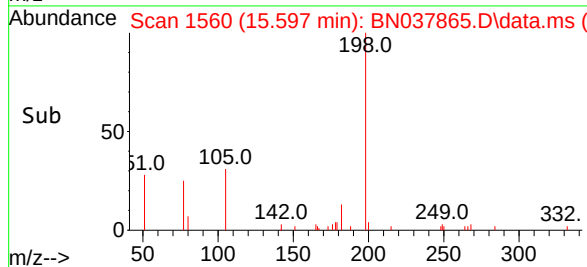
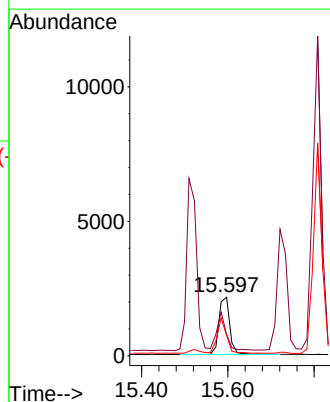
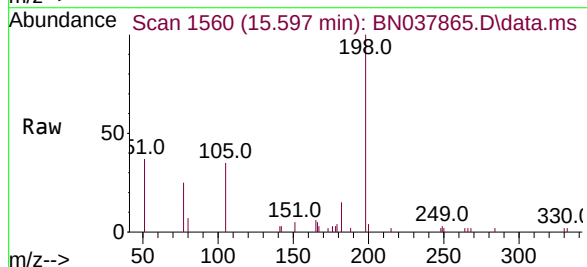
Tgt Ion:198 Resp: 3669

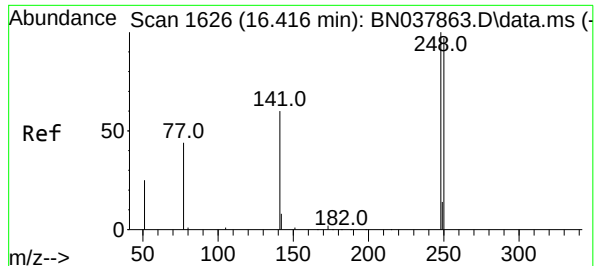
Ion Ratio Lower Upper

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

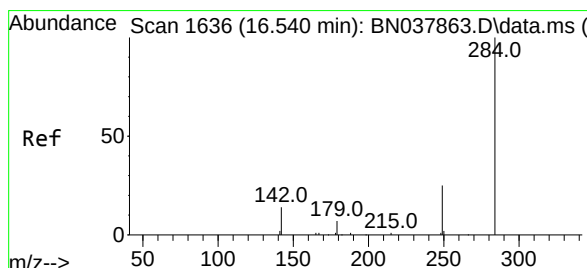
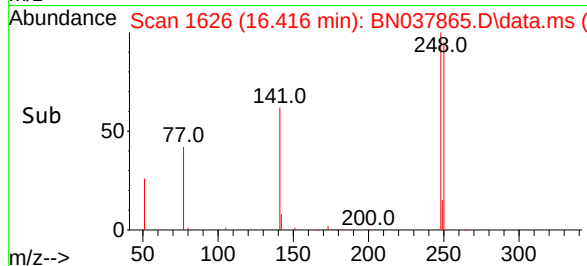
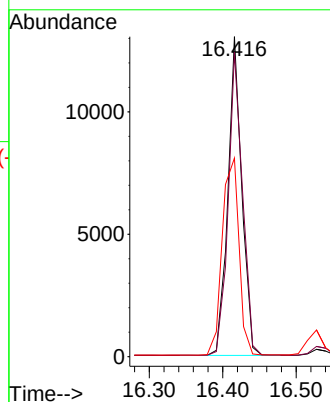
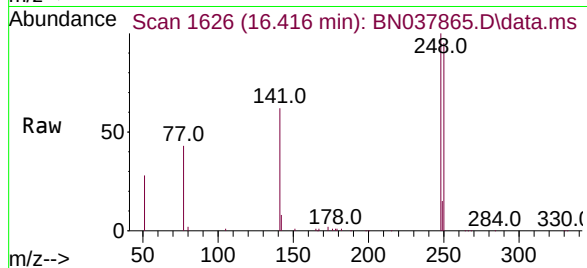
Tgt Ion:248 Resp: 17278

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

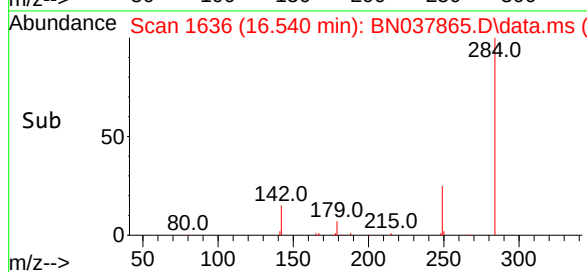
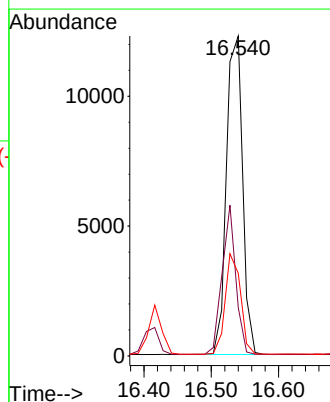
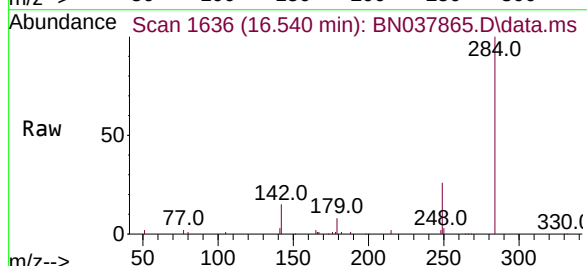
Tgt Ion:284 Resp: 20548

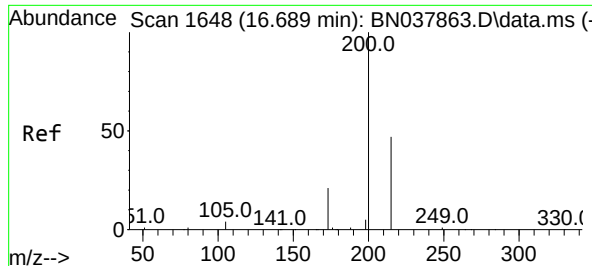
Ion Ratio Lower Upper

284 100

142 39.6 30.9 46.3

249 29.9 23.9 35.9

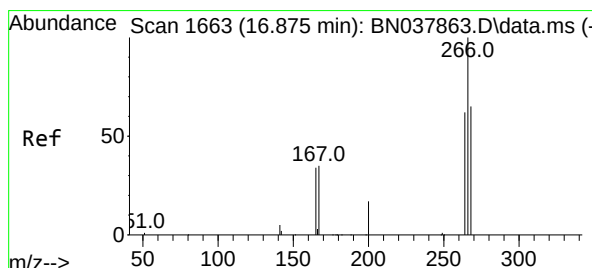
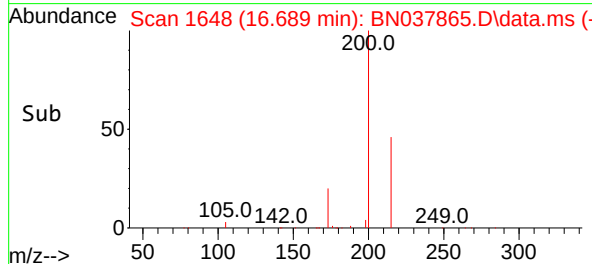
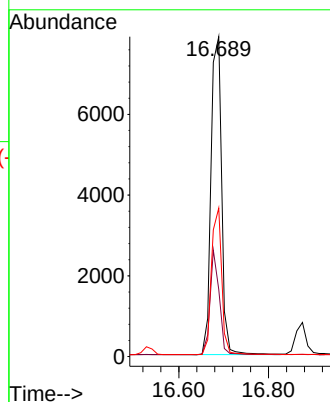
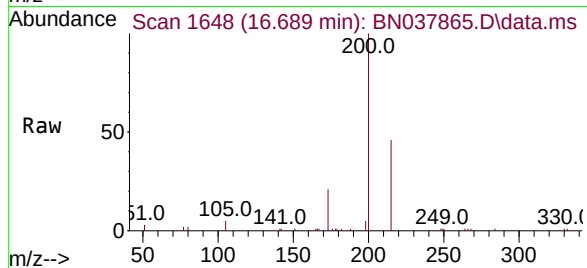




#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

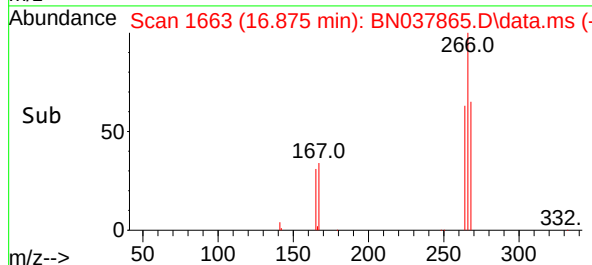
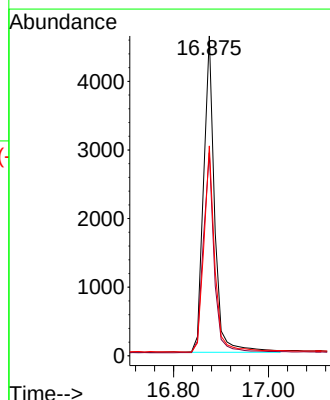
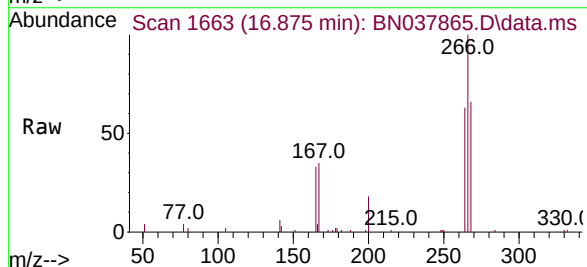
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

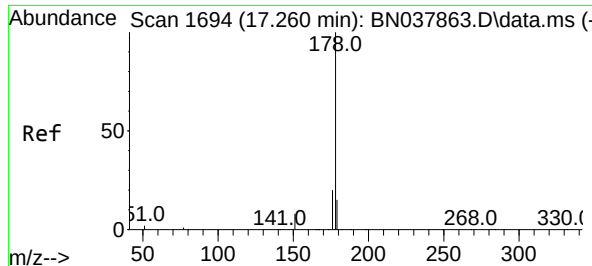
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0



#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

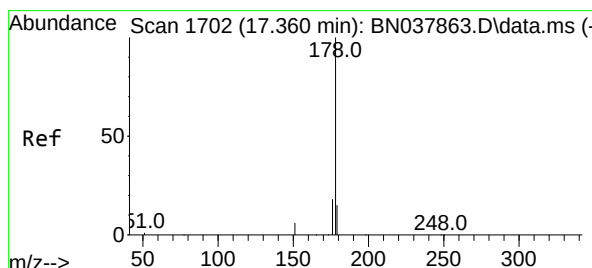
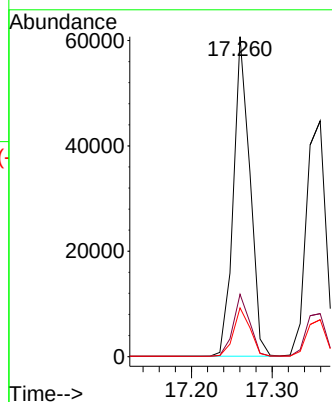
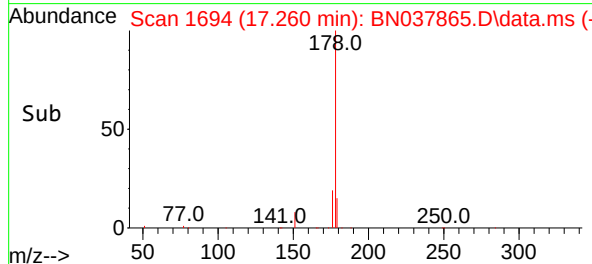
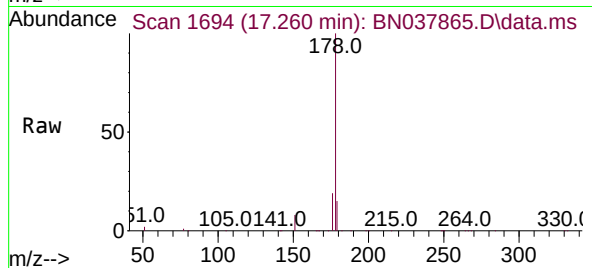




#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

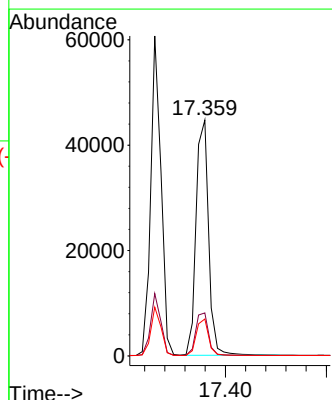
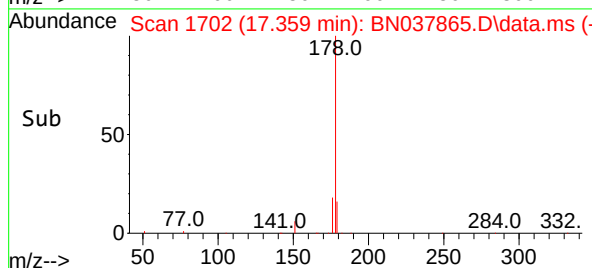
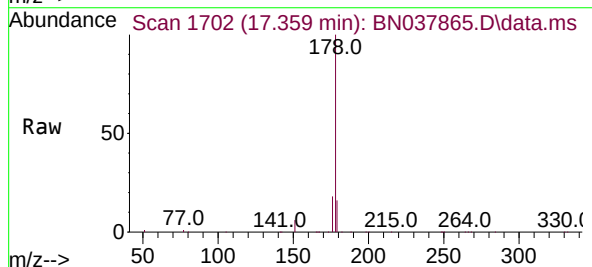
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

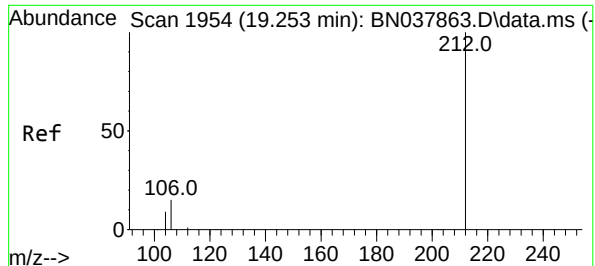
Tgt Ion:178 Resp: 86207
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.3 18.5



#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

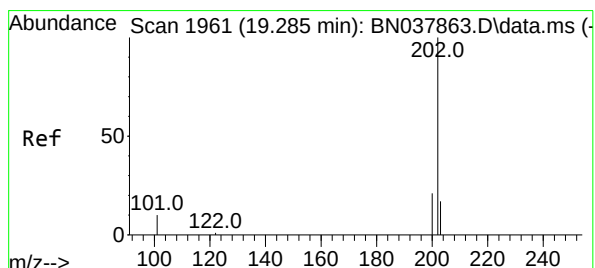
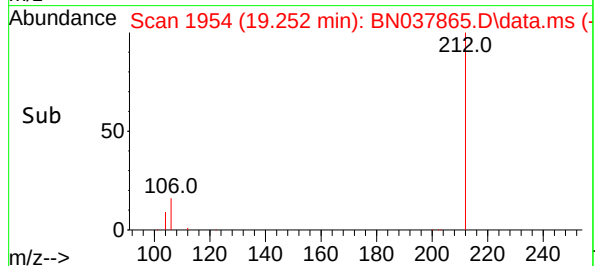
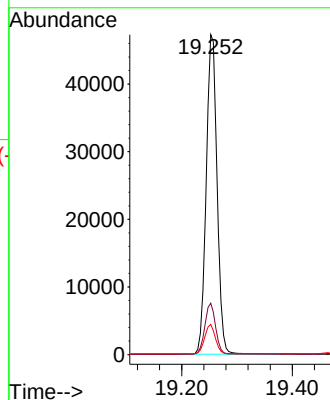
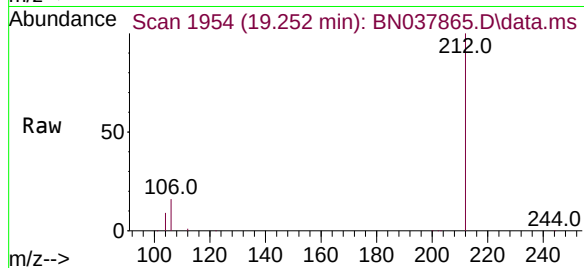
Tgt Ion:212 Resp: 63771

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

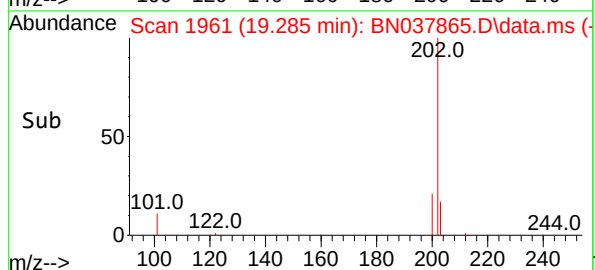
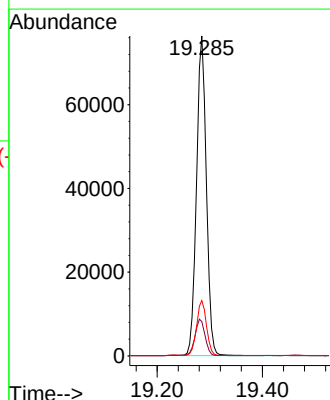
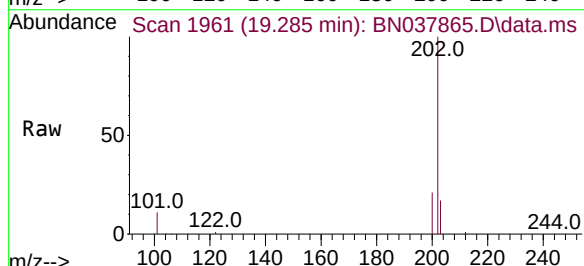
Tgt Ion:202 Resp: 98772

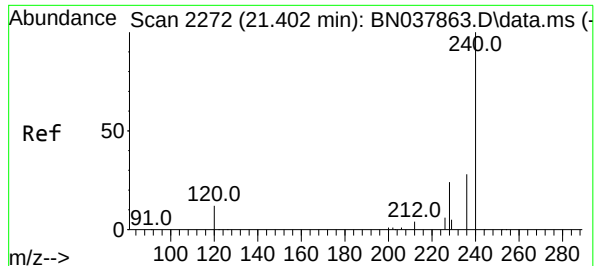
Ion Ratio Lower Upper

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

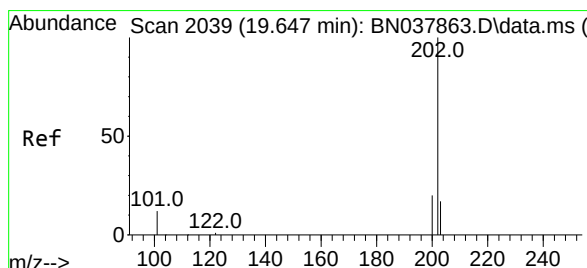
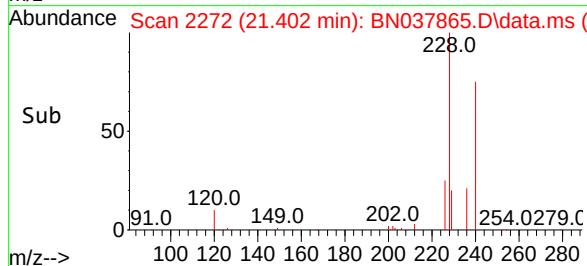
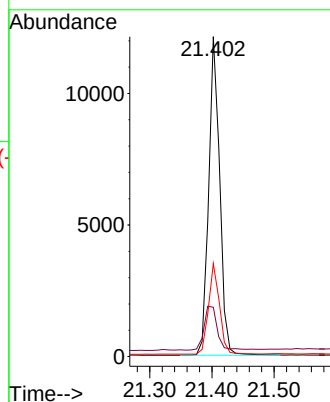
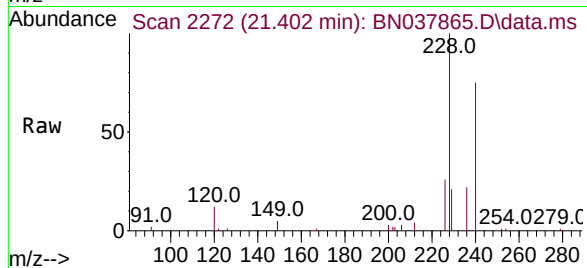
Tgt Ion:240 Resp: 14963

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

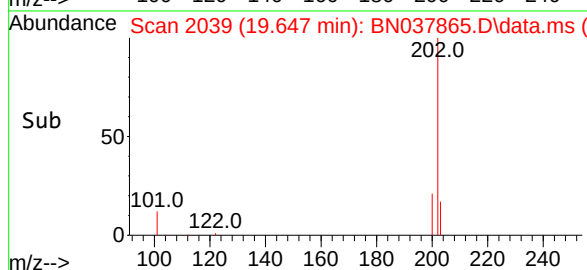
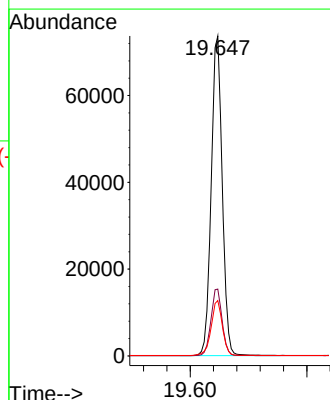
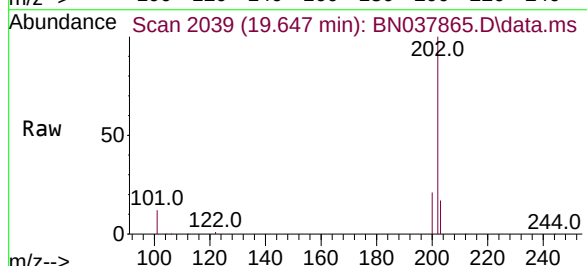
Tgt Ion:202 Resp: 96189

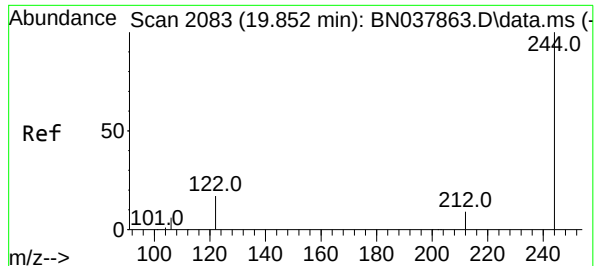
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.4

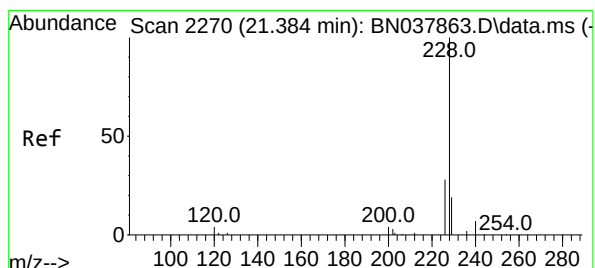
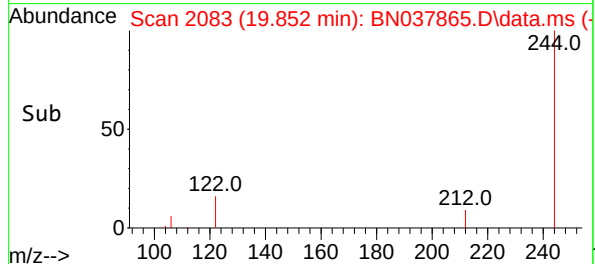
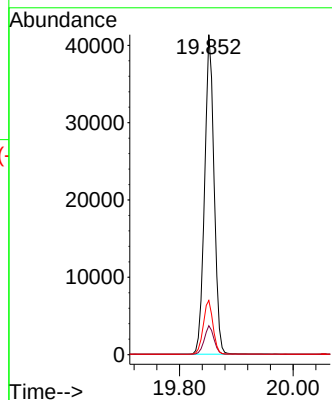
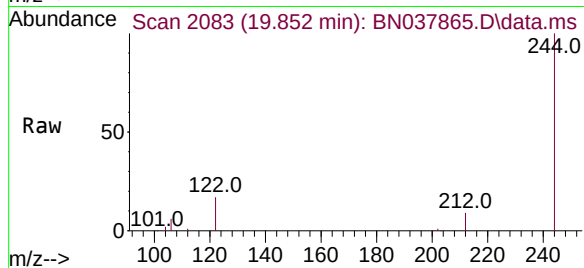




#31
Terphenyl-d14
Concen: 1.603 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

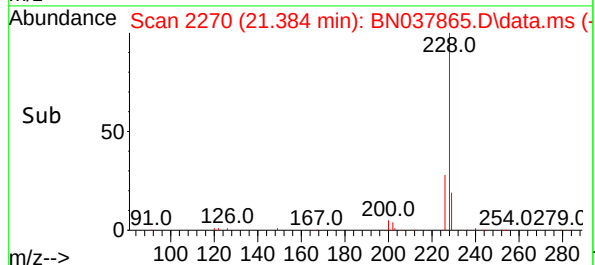
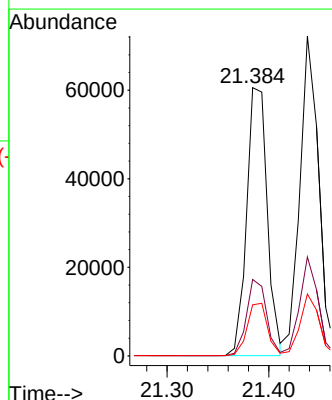
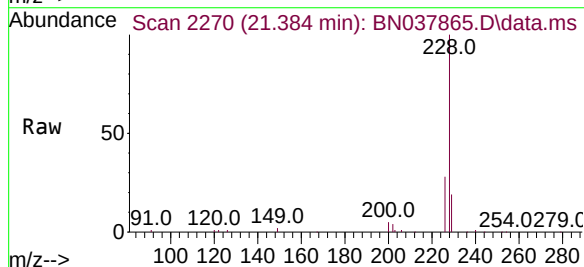
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

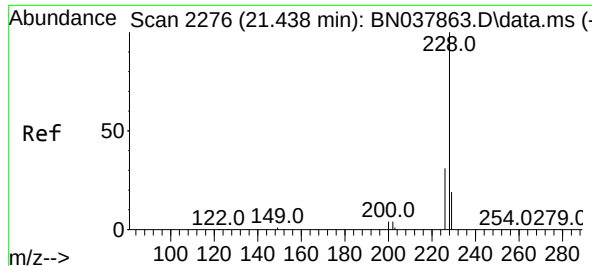
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.6	11.4
122	16.9	13.9	20.9



#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	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

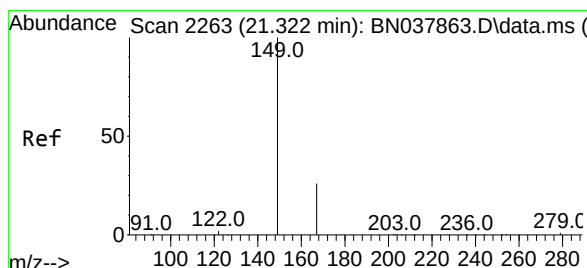
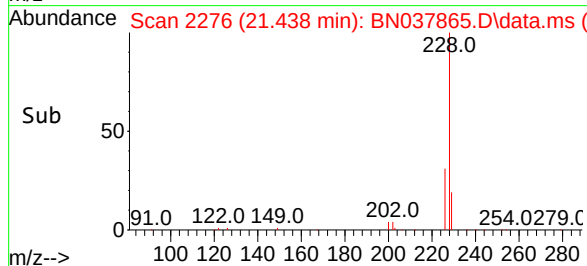
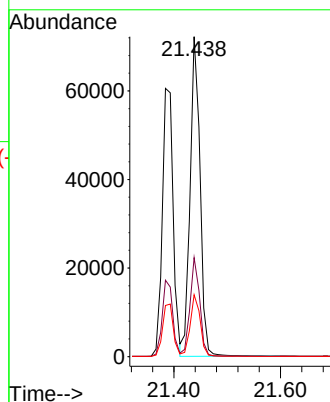
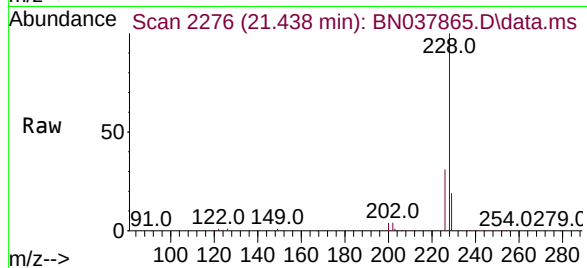
Tgt Ion:228 Resp: 93309

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

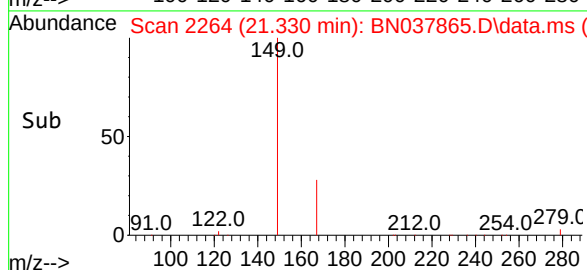
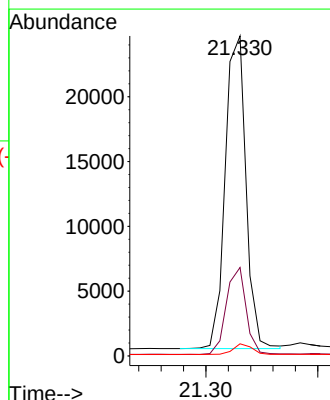
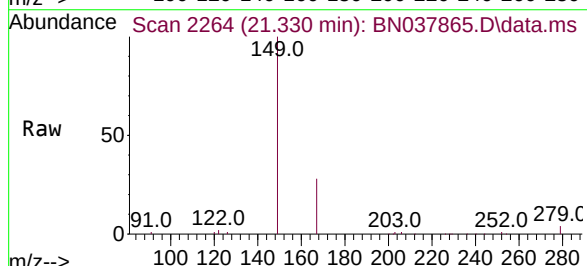
Tgt Ion:149 Resp: 31032

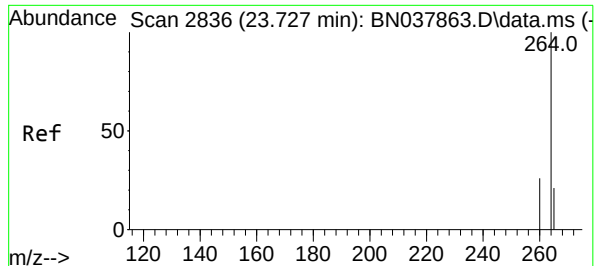
Ion Ratio Lower Upper

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

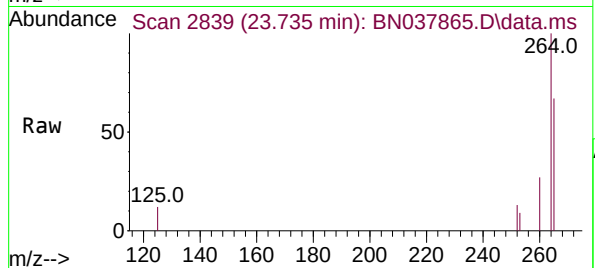
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



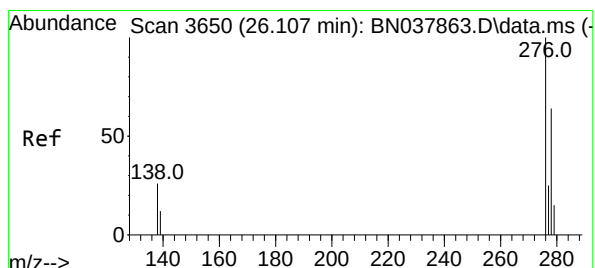
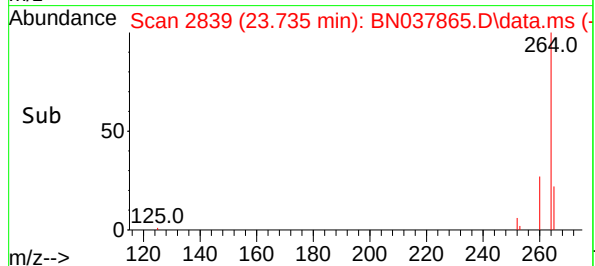
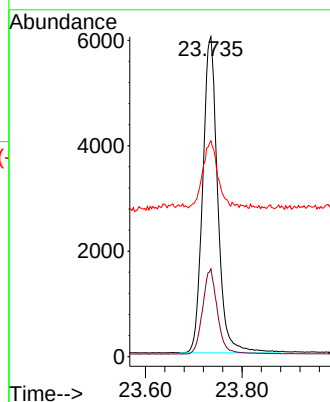
Tgt Ion:264 Resp: 12917

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

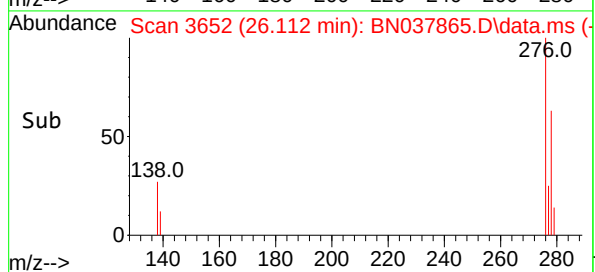
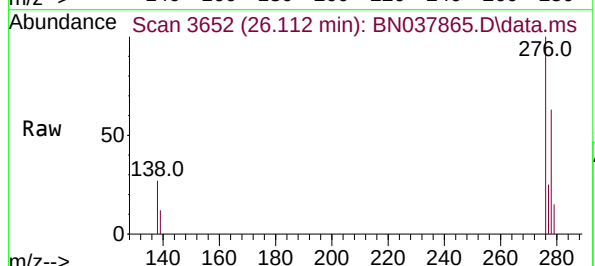
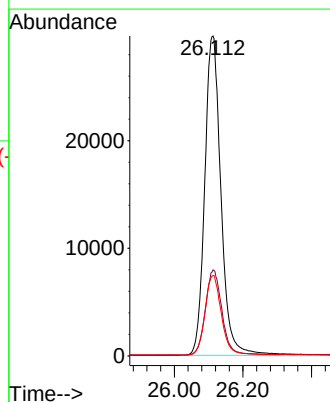
Tgt Ion:276 Resp: 97476

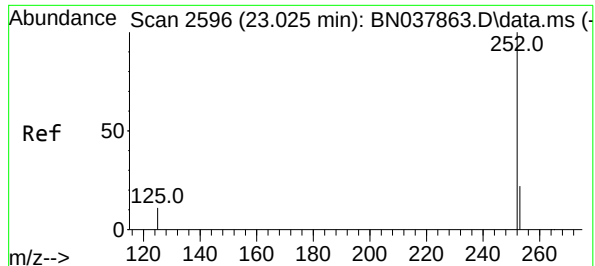
Ion Ratio Lower Upper

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

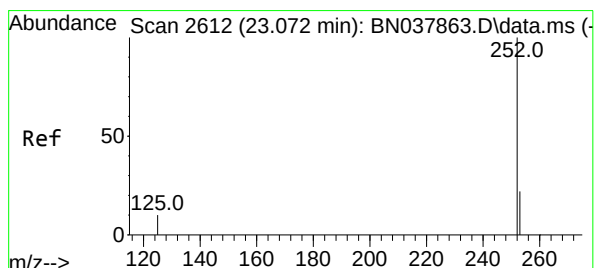
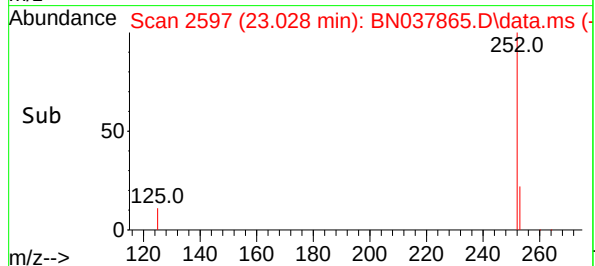
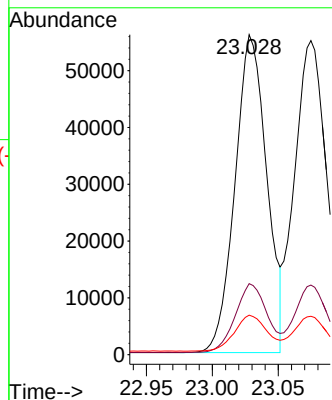
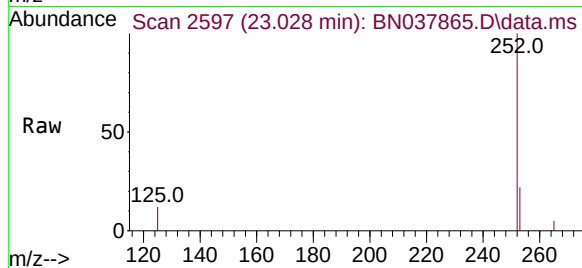
Tgt Ion:252 Resp: 93525

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

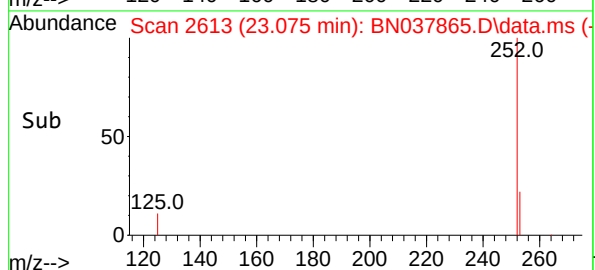
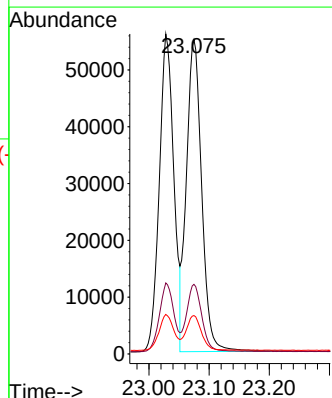
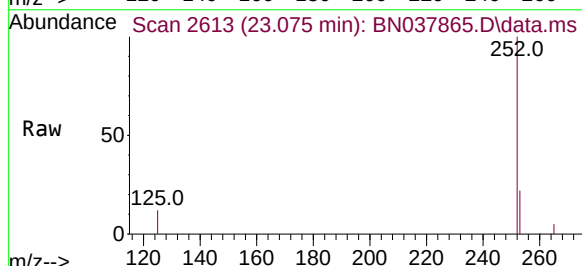
Tgt Ion:252 Resp: 96868

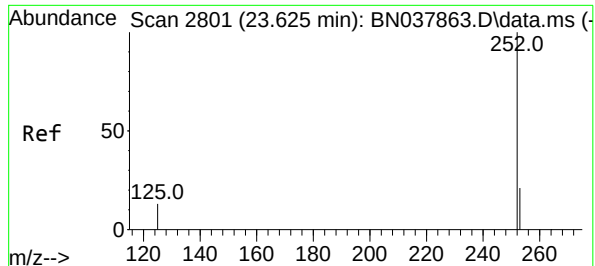
Ion Ratio Lower Upper

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

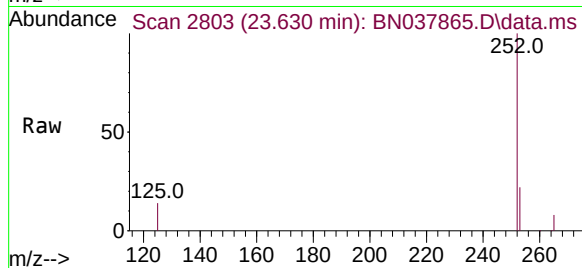
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



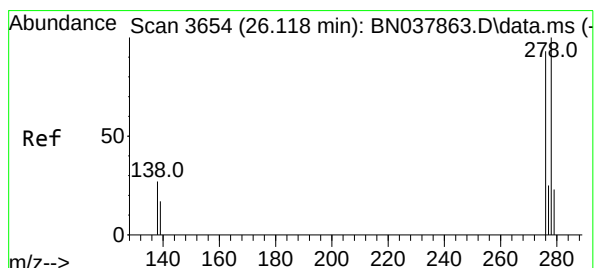
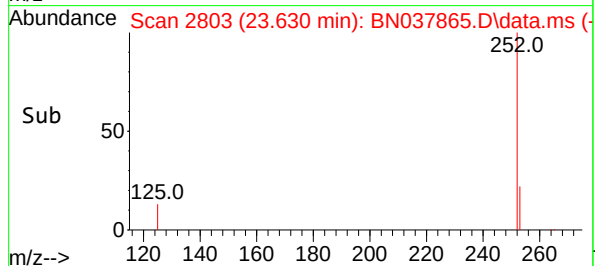
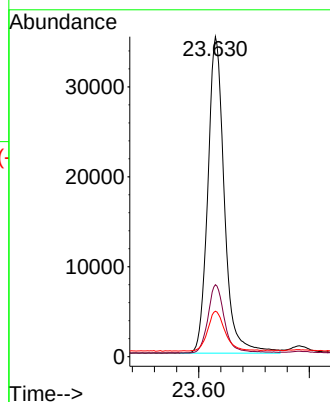
Tgt Ion:252 Resp: 73009

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

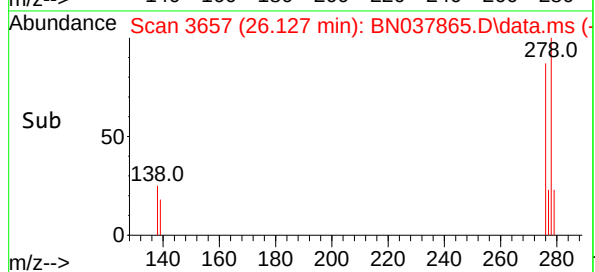
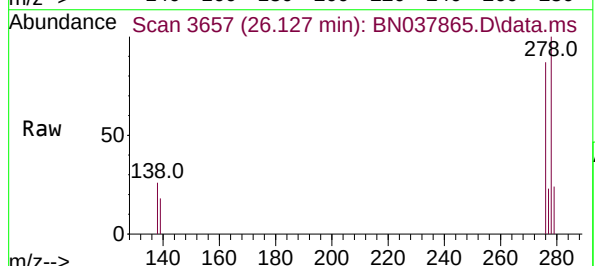
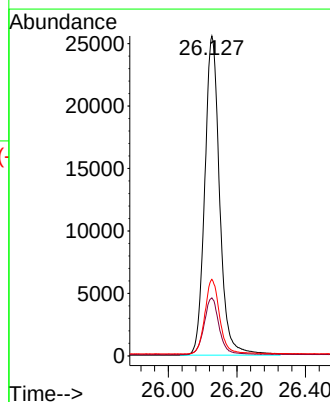
Tgt Ion:278 Resp: 77237

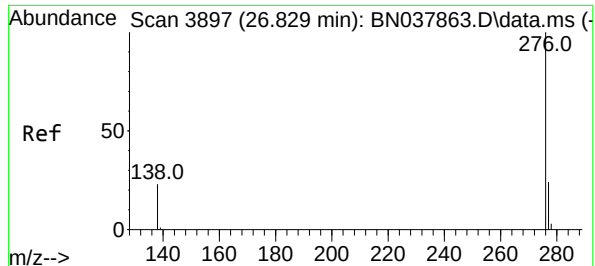
Ion Ratio Lower Upper

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

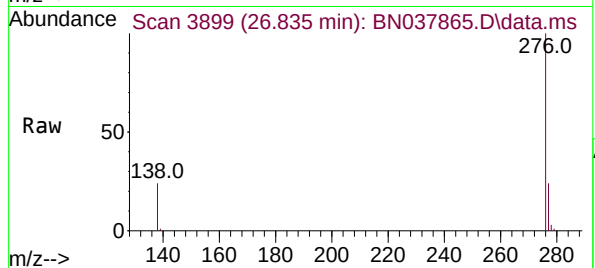
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



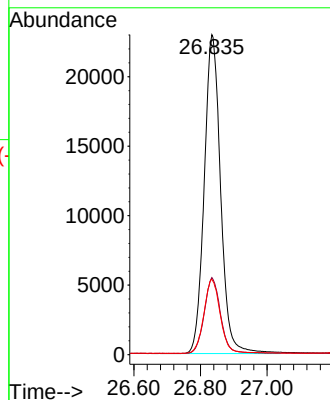
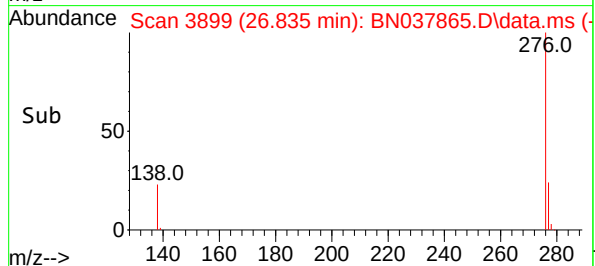
Tgt Ion:276 Resp: 78576

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

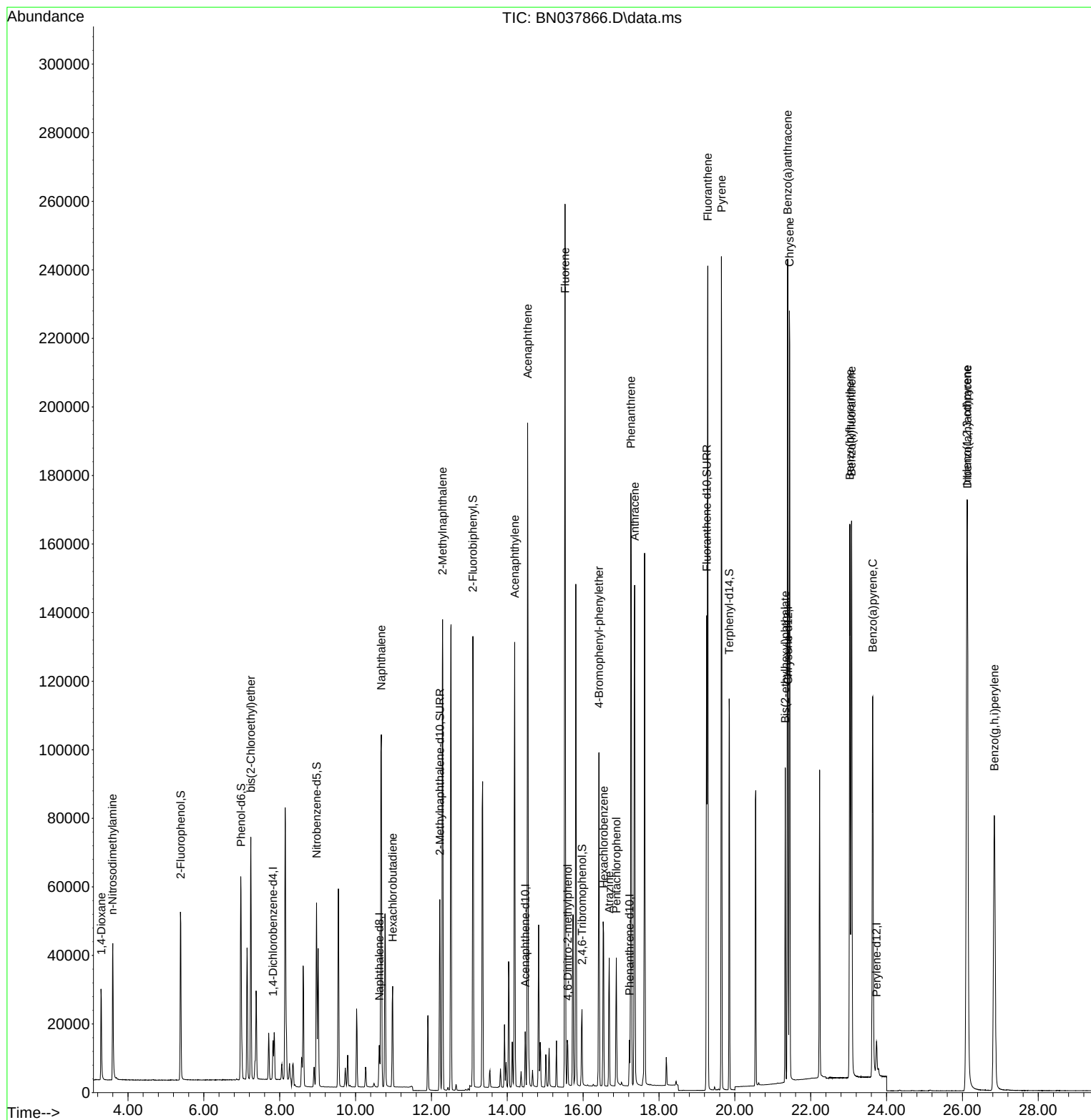
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng	0.00
29) Chrysene-d12	21.402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

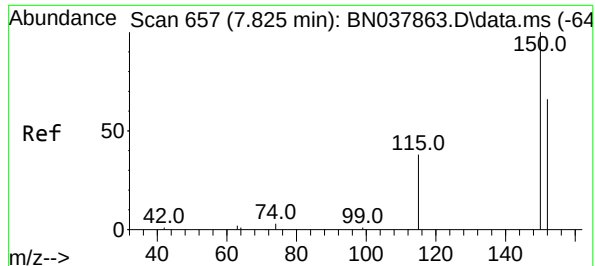
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

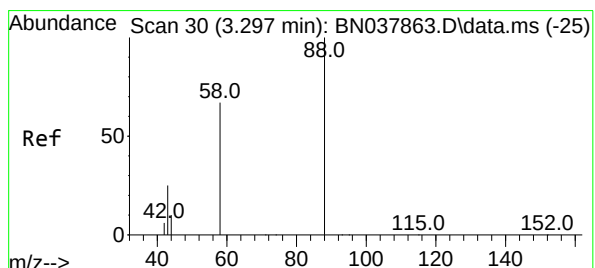
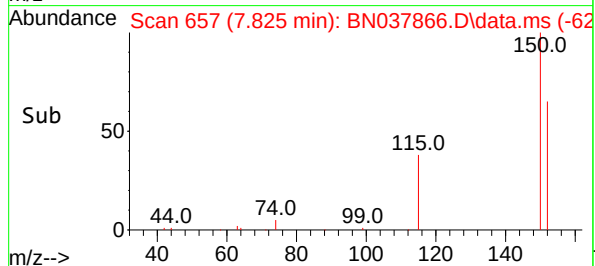
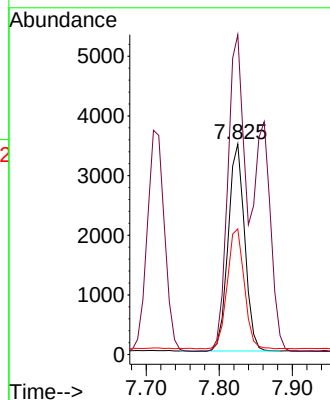
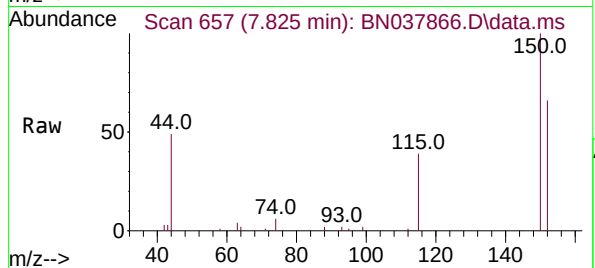




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

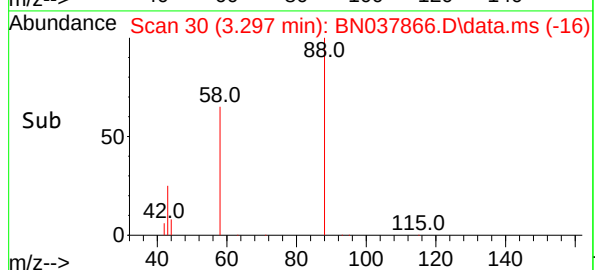
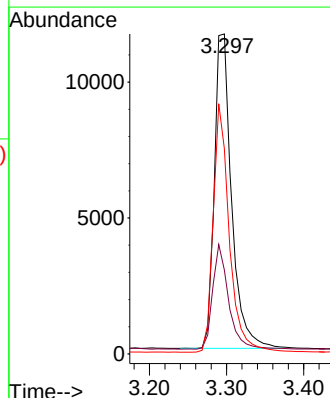
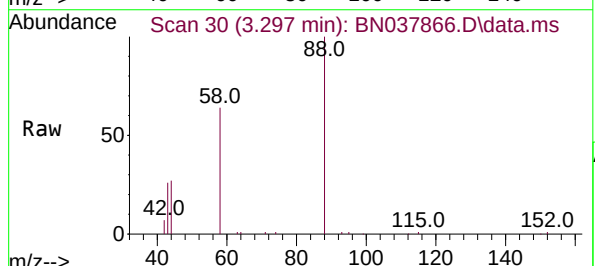
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

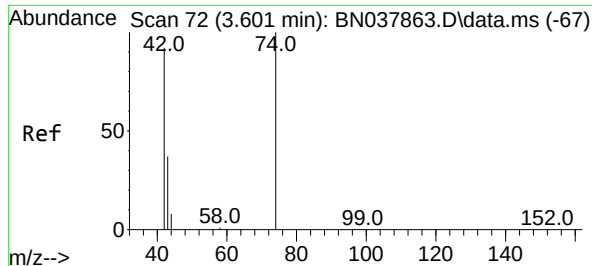
Tgt Ion:152 Resp: 5486
Ion Ratio Lower Upper
152 100
150 151.9 121.0 181.4
115 59.6 47.4 71.0



#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

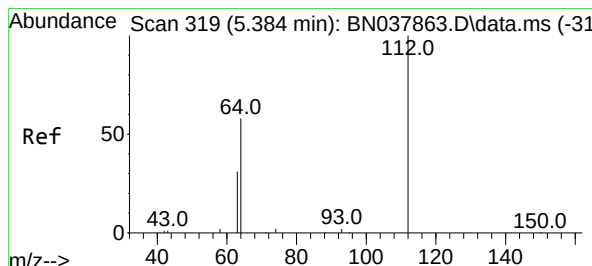
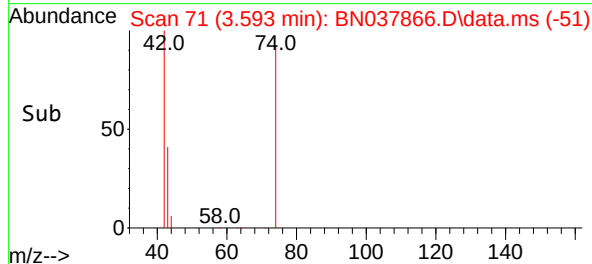
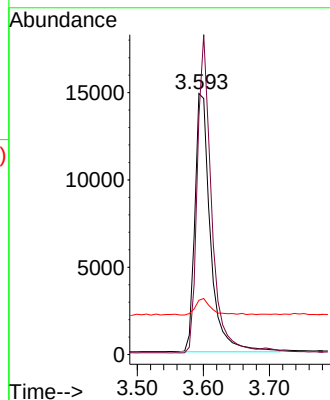
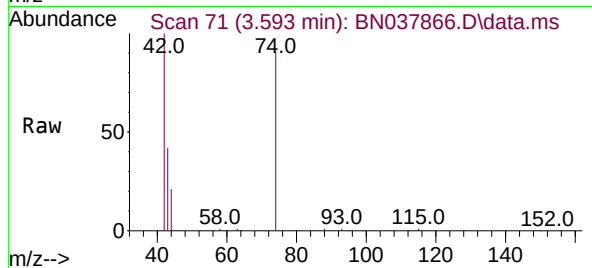




#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

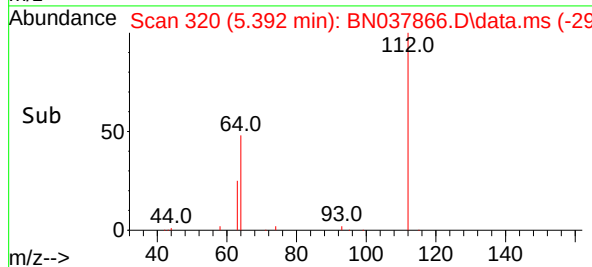
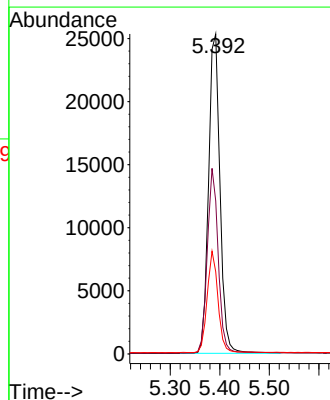
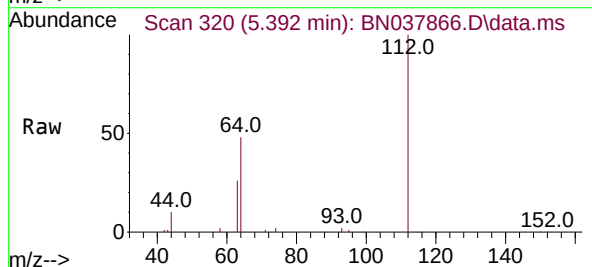
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

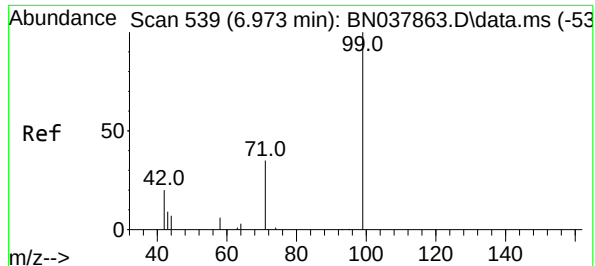
Tgt Ion: 42 Resp: 24113
Ion Ratio Lower Upper
42 100
74 112.5 93.4 140.0
44 6.3 22.2 33.4#



#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

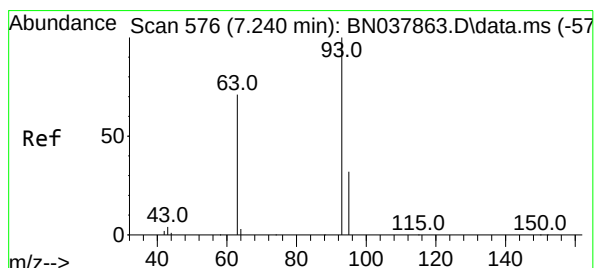
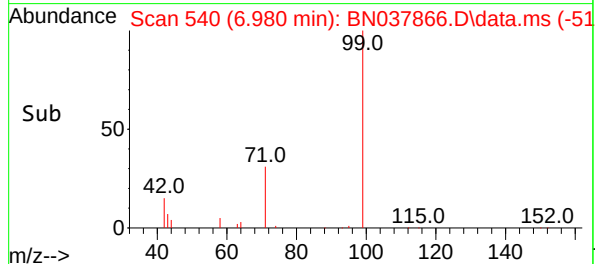
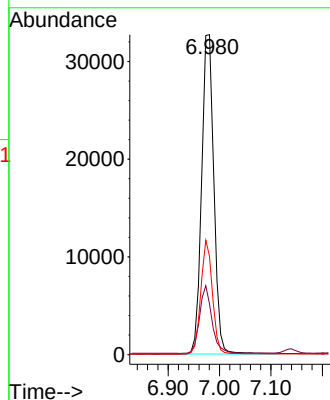
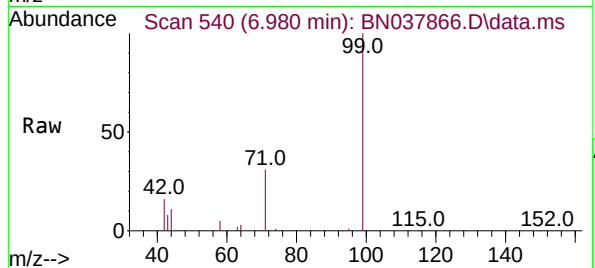




#5
Phenol-d6
Concen: 3.297 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

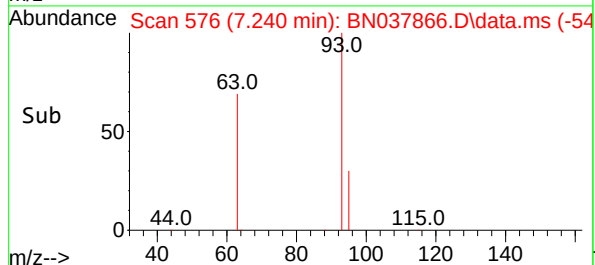
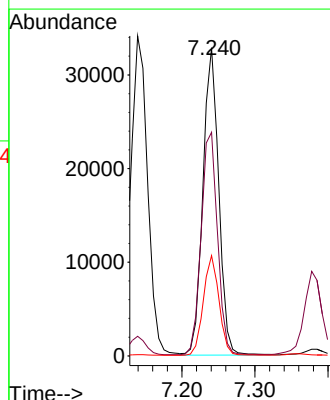
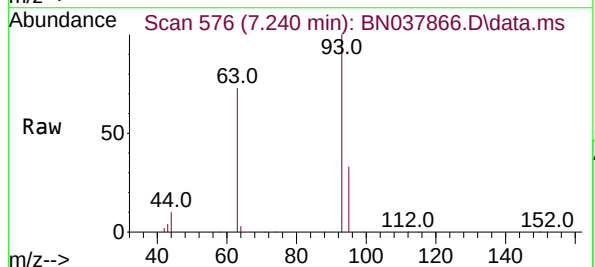
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

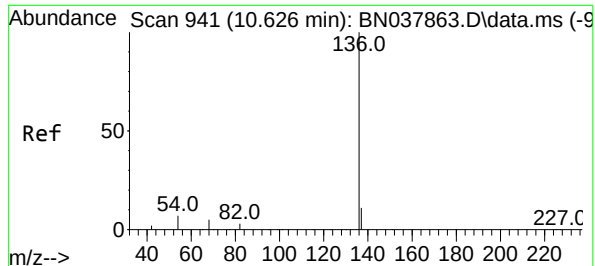
Tgt Ion: 99 Resp: 54237
Ion Ratio Lower Upper
99 100
42 21.2 17.2 25.8
71 33.7 27.3 40.9



#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

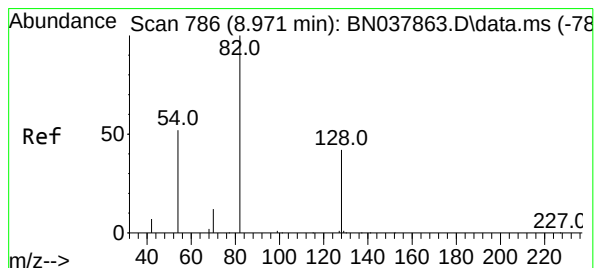
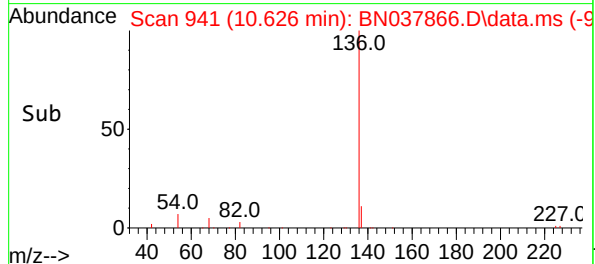
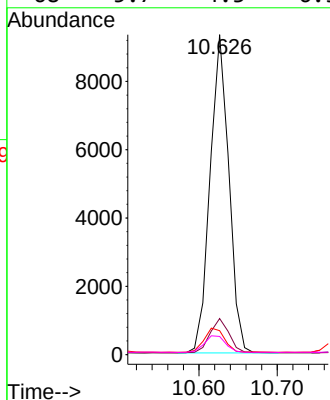
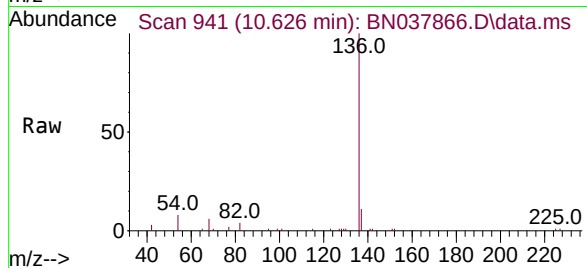




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

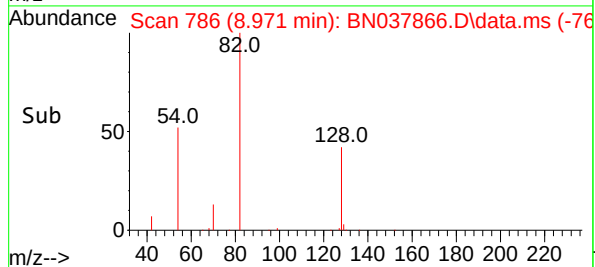
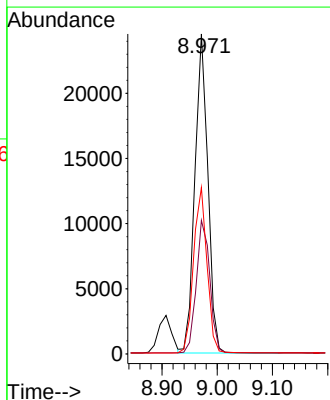
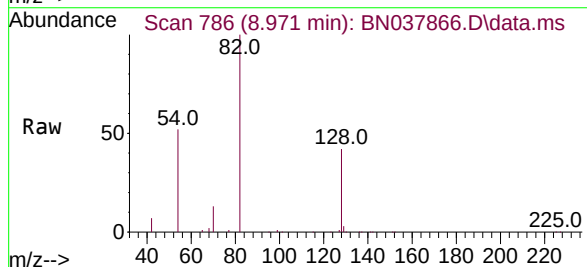
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

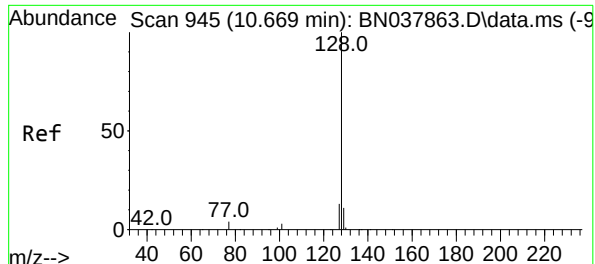
Tgt Ion:	136	Resp:	15583
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5



#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

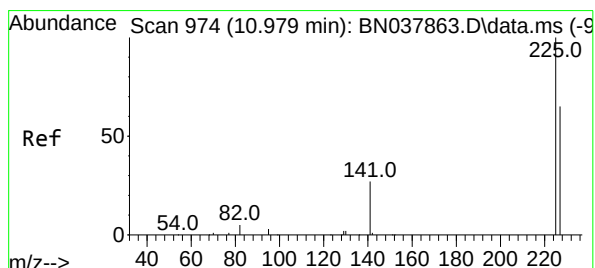
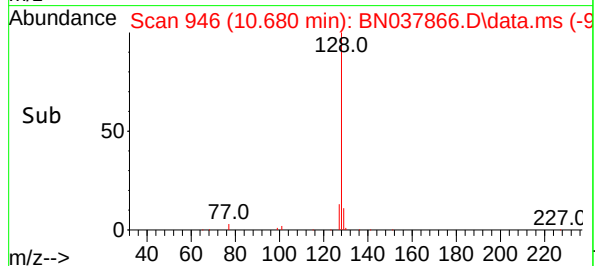
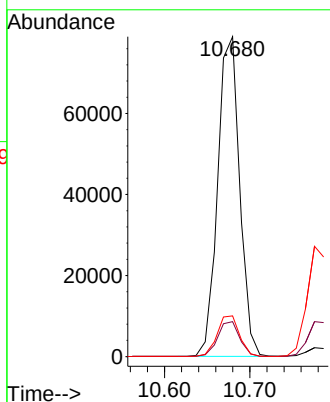
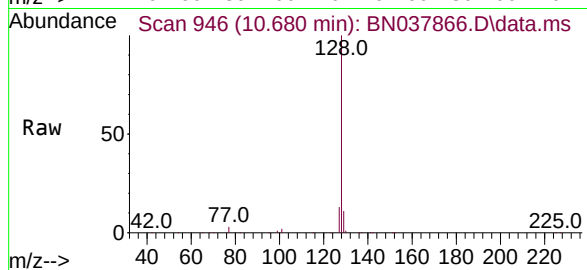
Tgt Ion:128 Resp: 141732

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

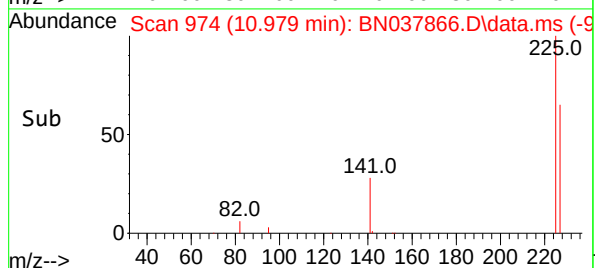
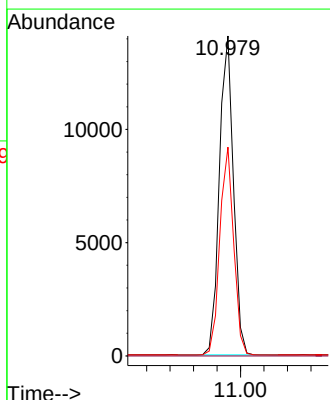
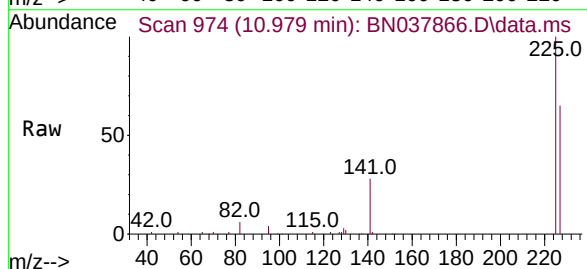
Tgt Ion:225 Resp: 23493

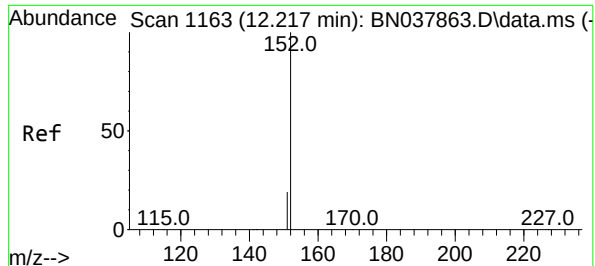
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.4 77.2

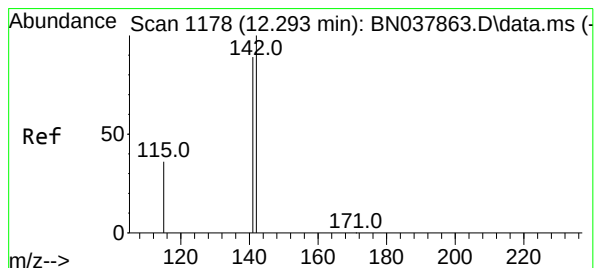
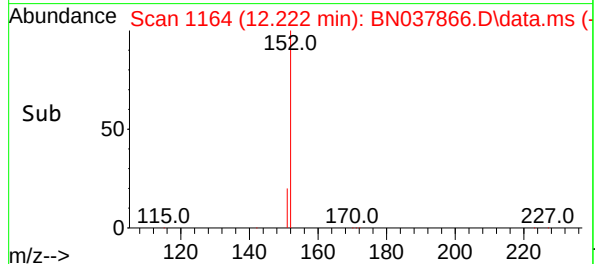
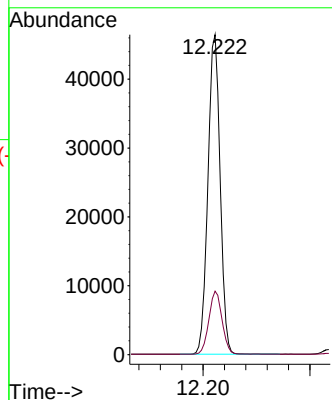
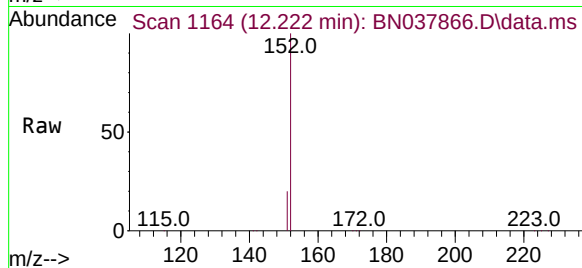




#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

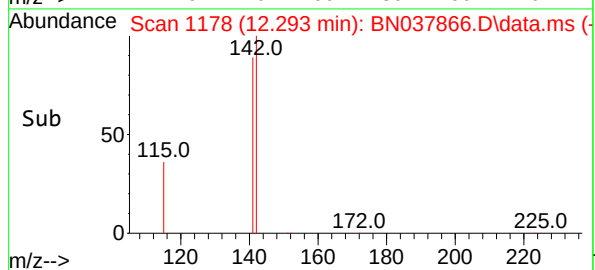
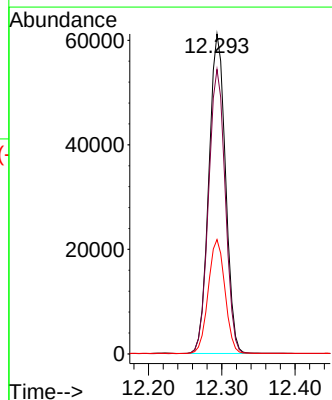
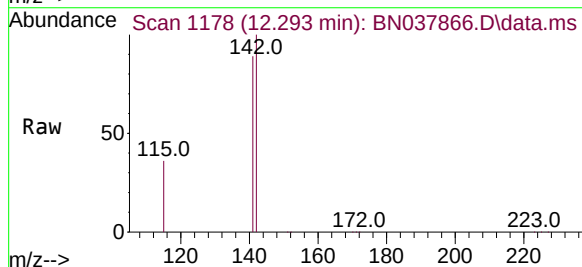
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

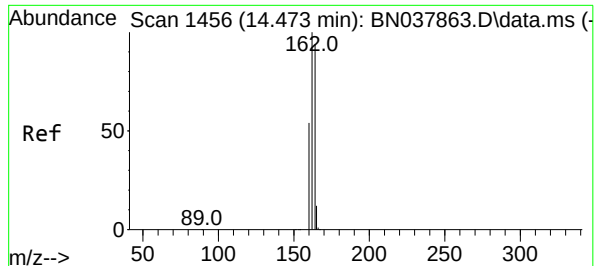
Tgt Ion:152 Resp: 73211
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#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

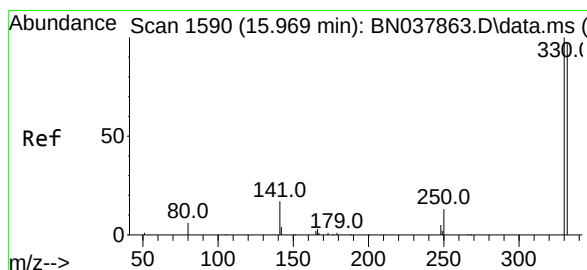
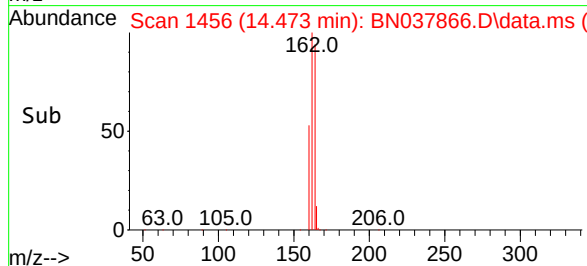
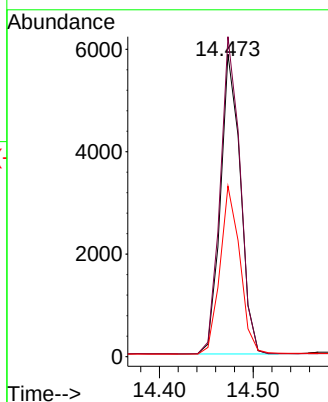
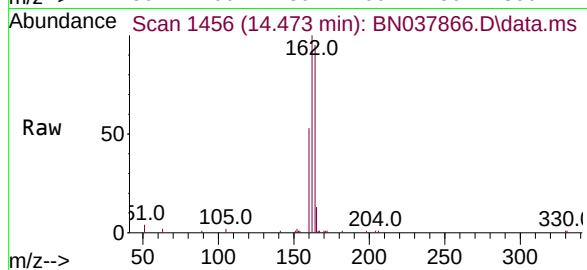
Tgt Ion:164 Resp: 8623

Ion	Ratio	Lower	Upper
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164	100		
-----	-----	--	--

162	105.8	84.8	127.2
-----	-------	------	-------

160	56.4	46.1	69.1
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#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

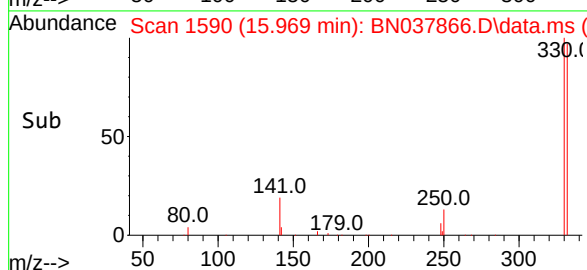
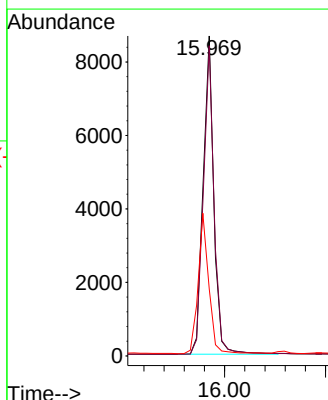
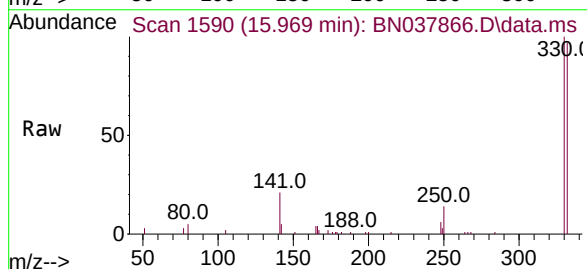
Tgt Ion:330 Resp: 12677

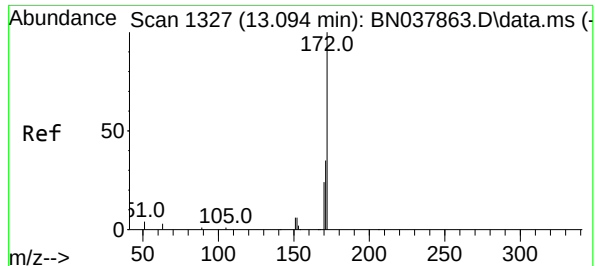
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

330	100		
-----	-----	--	--

332	97.5	77.2	115.8
-----	------	------	-------

141	44.0	37.2	55.8
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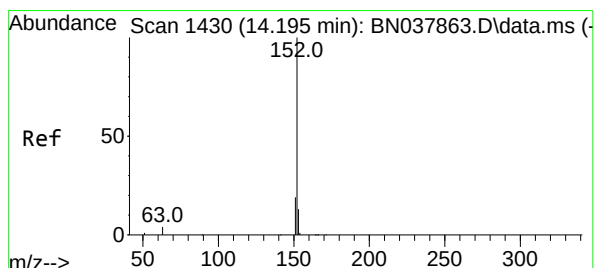
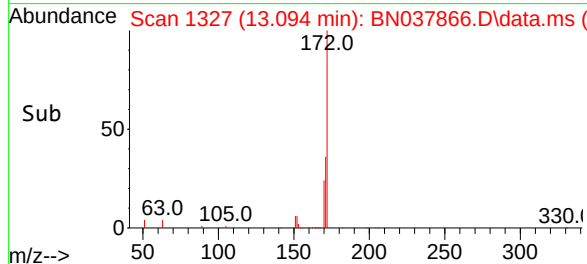
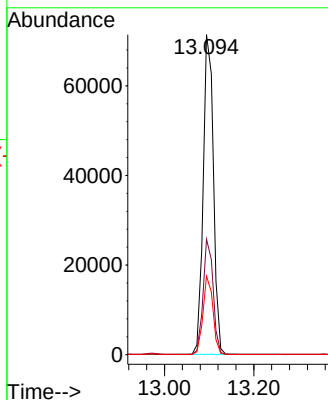
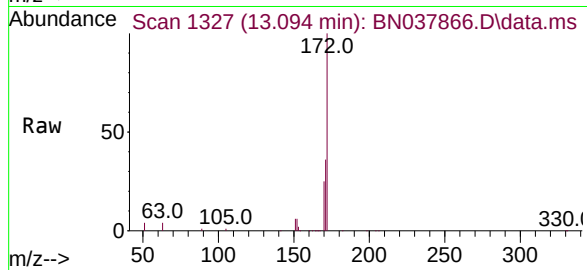




#15
2-Fluorobiphenyl
Concen: 3.223 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

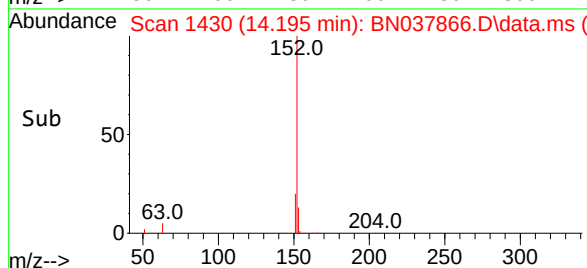
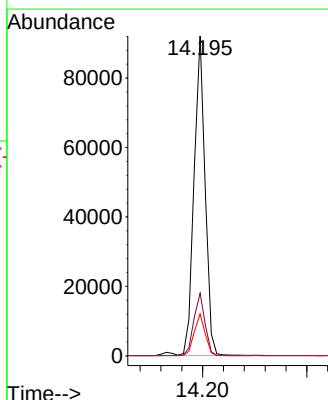
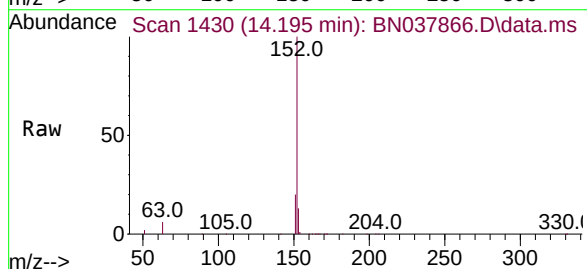
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

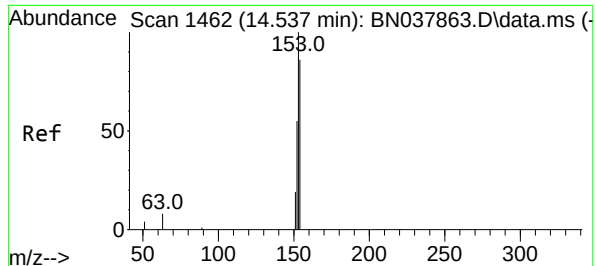
Tgt Ion:172 Resp: 113791
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.6 19.7 29.5



#16
Acenaphthylene
Concen: 3.437 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:152 Resp: 134565
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 3.392 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

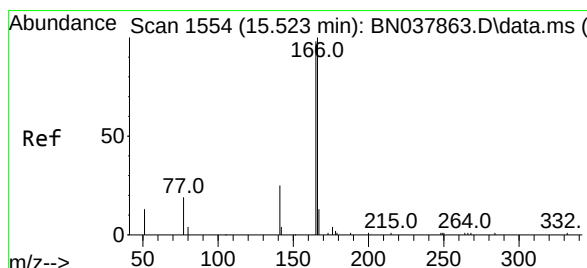
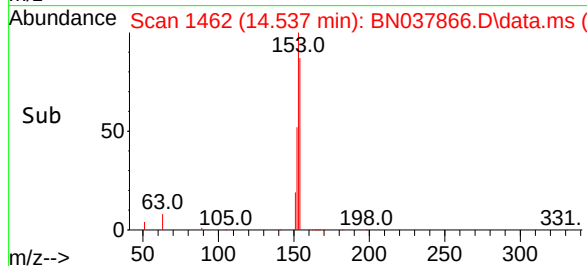
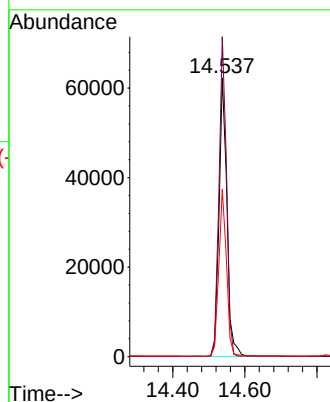
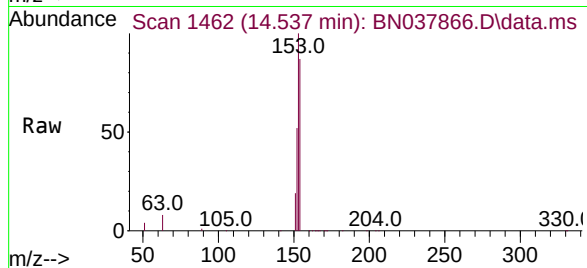
Tgt Ion:154 Resp: 94611

Ion Ratio Lower Upper

154 100

153 109.6 90.5 135.7

152 58.7 51.8 77.8



#18

Fluorene

Concen: 3.511 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

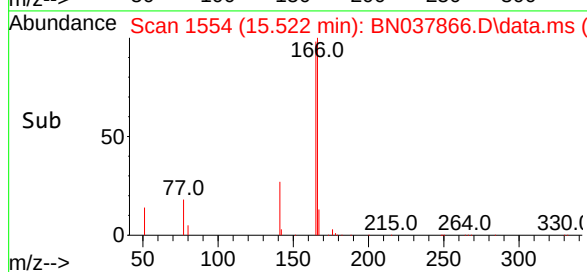
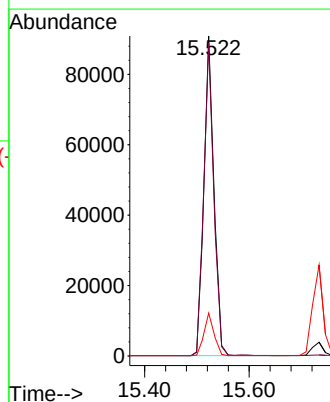
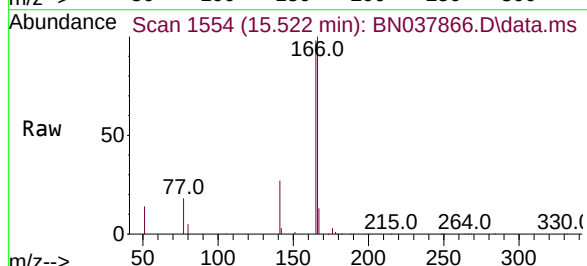
Tgt Ion:166 Resp: 118468

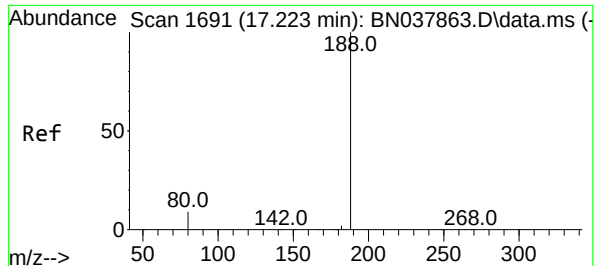
Ion Ratio Lower Upper

166 100

165 98.2 79.0 118.4

167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

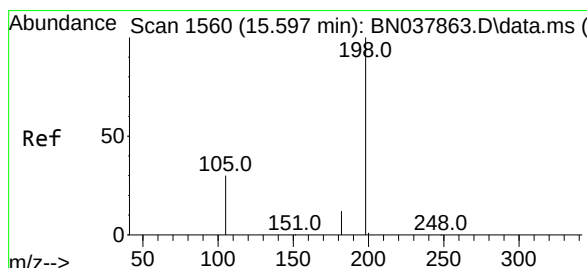
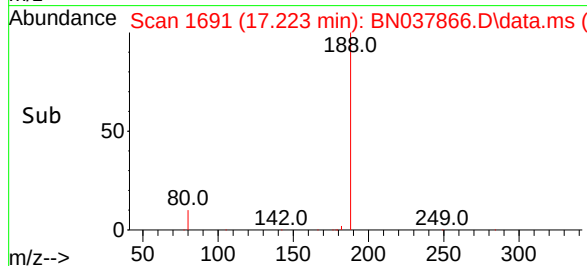
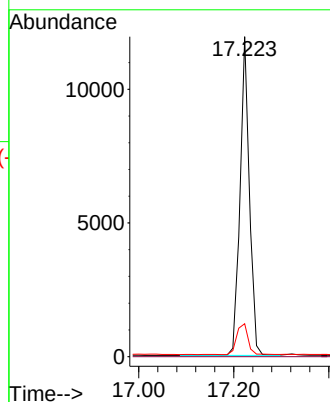
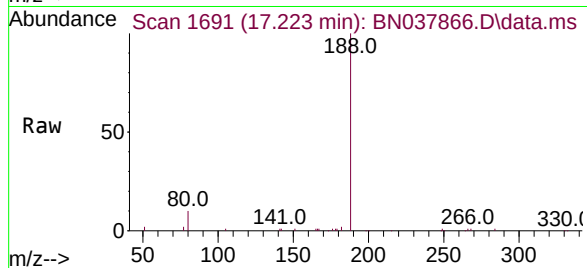
Tgt Ion:188 Resp: 16225

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.211 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

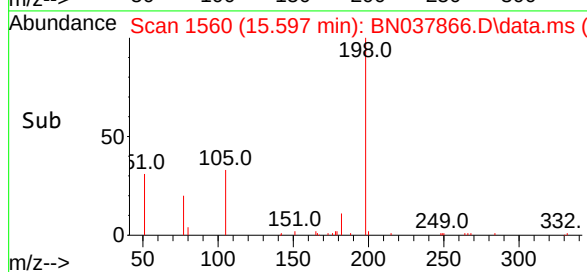
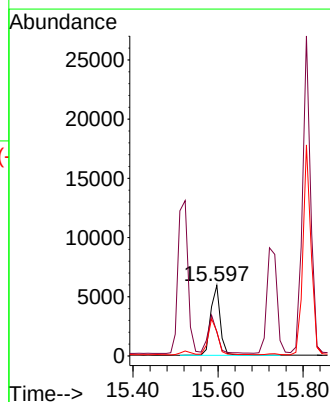
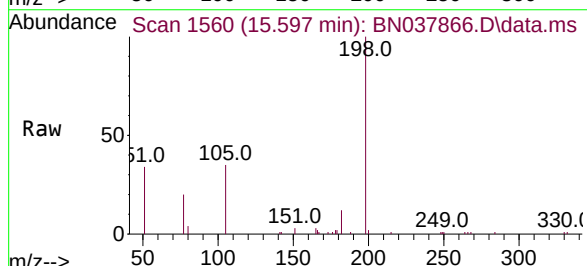
Tgt Ion:198 Resp: 9172

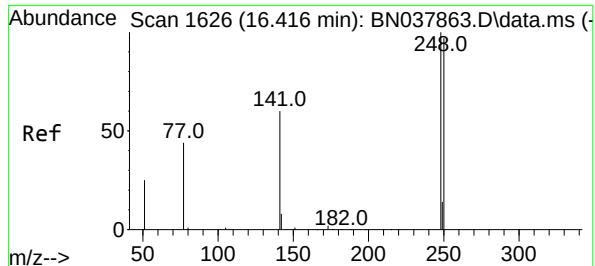
Ion Ratio Lower Upper

198 100

51 33.8 59.1 88.7#

105 34.5 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 3.370 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

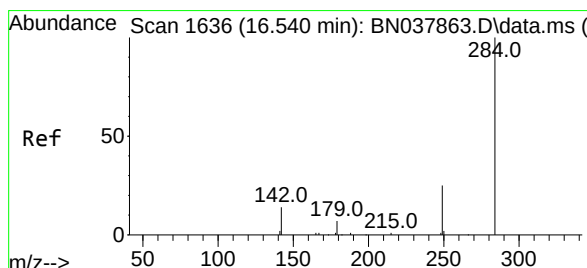
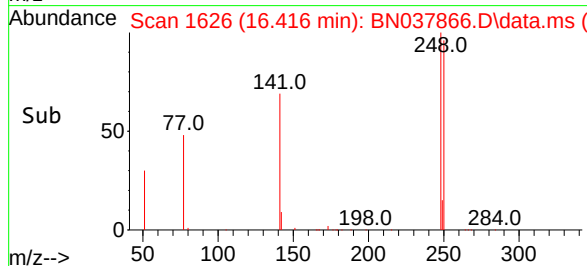
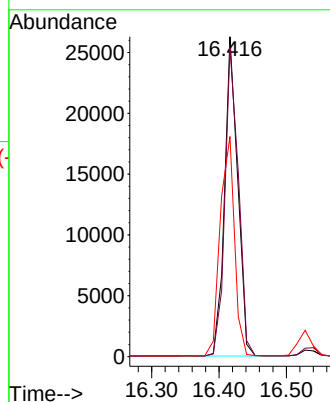
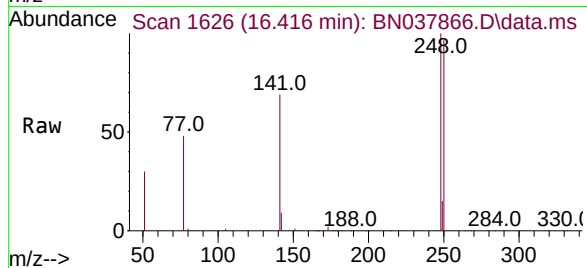
Tgt Ion:248 Resp: 35637

Ion Ratio Lower Upper

248 100

250 96.5 77.6 116.4

141 68.8 48.8 73.2



#22

Hexachlorobenzene

Concen: 3.269 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

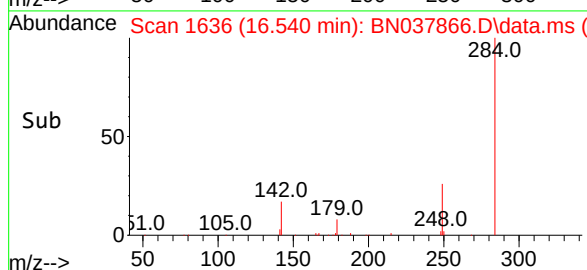
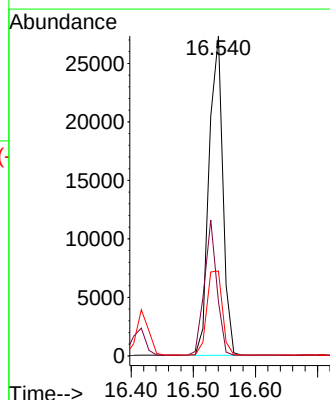
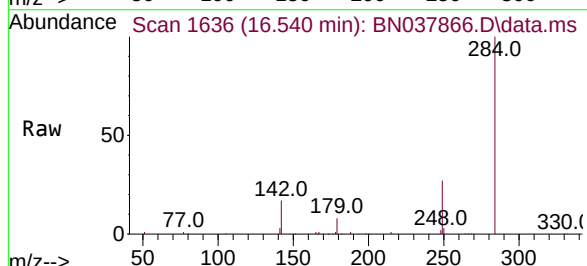
Tgt Ion:284 Resp: 41902

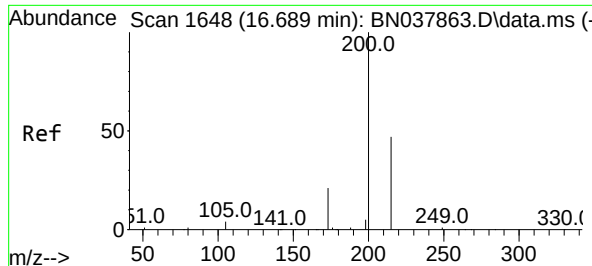
Ion Ratio Lower Upper

284 100

142 38.5 30.9 46.3

249 29.5 23.9 35.9





#23

Atrazine

Concen: 3.616 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

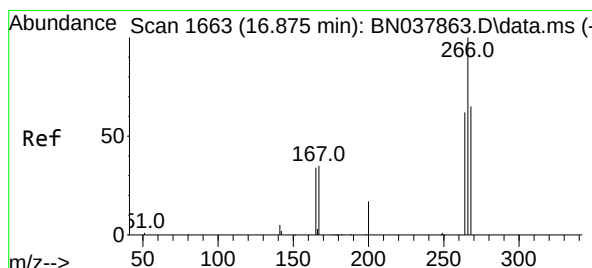
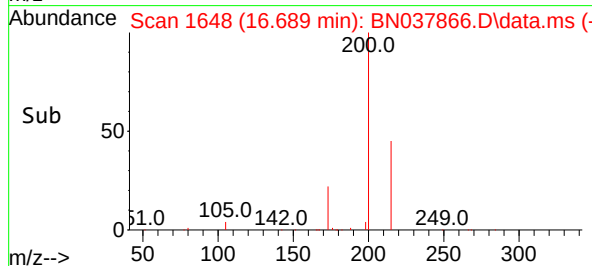
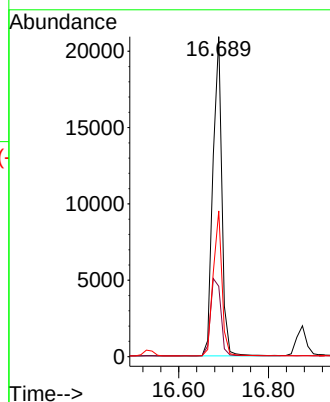
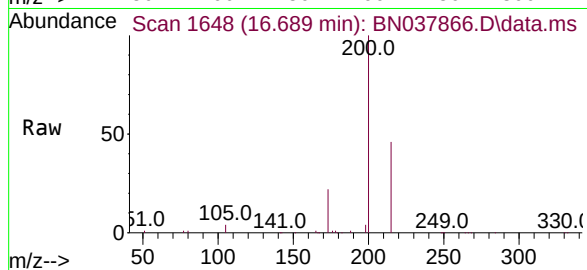
Tgt Ion:200 Resp: 29112

Ion Ratio Lower Upper

200 100

173 22.0 18.3 27.5

215 45.5 38.6 58.0



#24

Pentachlorophenol

Concen: 4.011 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

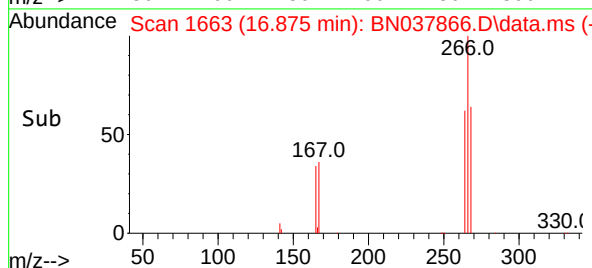
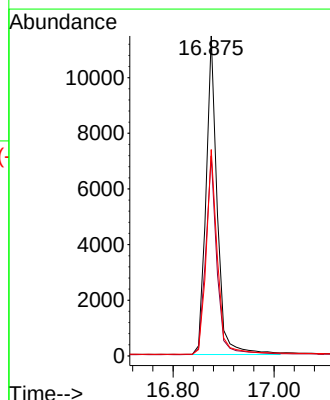
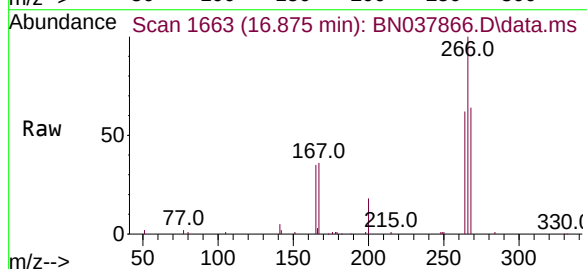
Tgt Ion:266 Resp: 17645

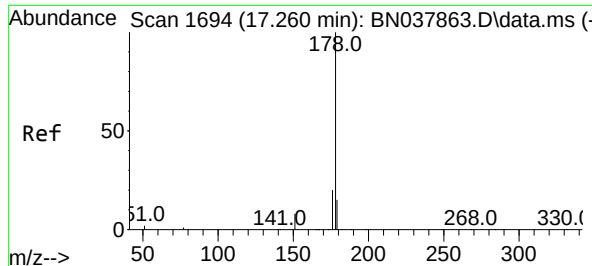
Ion Ratio Lower Upper

266 100

264 62.5 50.9 76.3

268 64.0 54.3 81.5

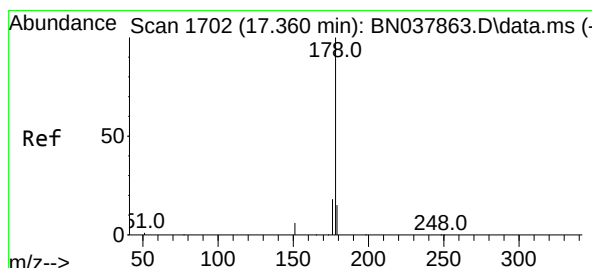
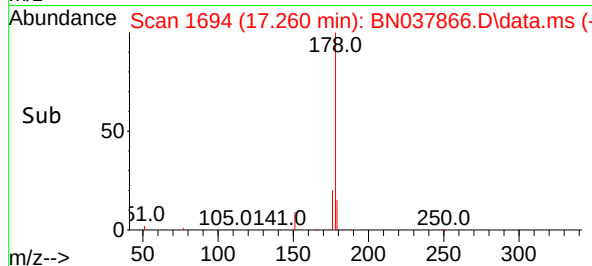
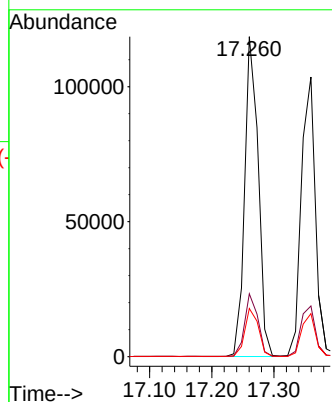
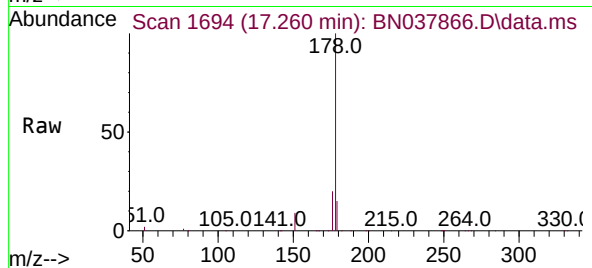




#25
Phenanthrene
Concen: 3.352 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

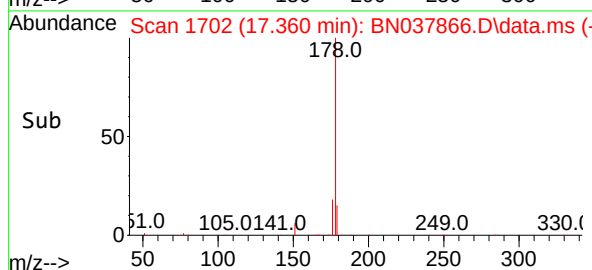
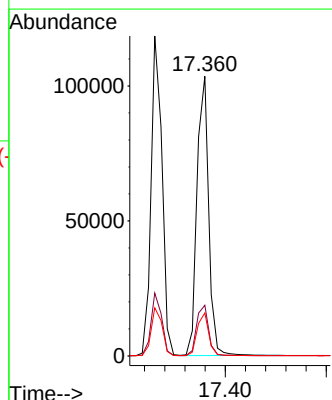
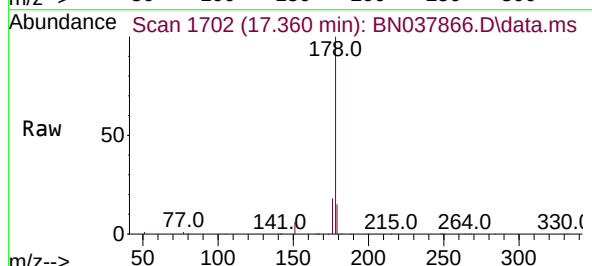
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

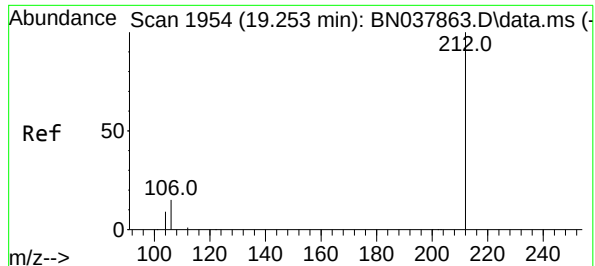
Tgt Ion:178 Resp: 178985
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.1 12.3 18.5



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

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





#27

Fluoranthene-d10

Concen: 3.451 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

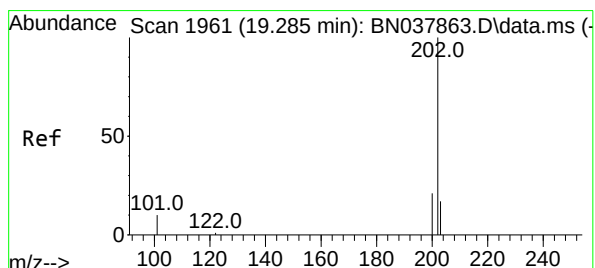
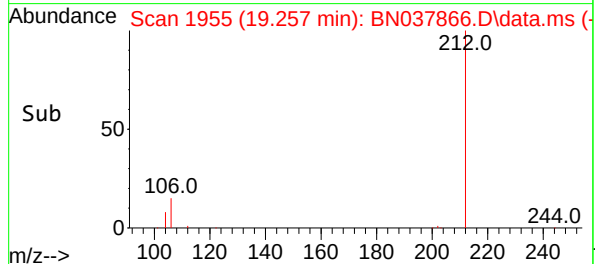
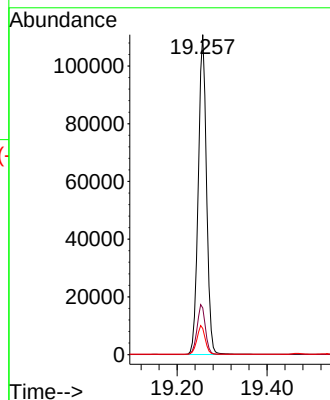
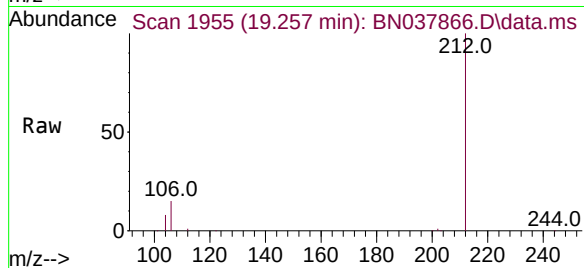
Tgt Ion:212 Resp: 140845

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

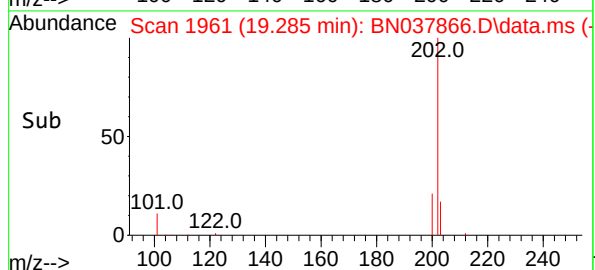
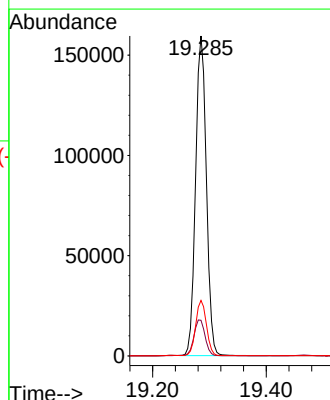
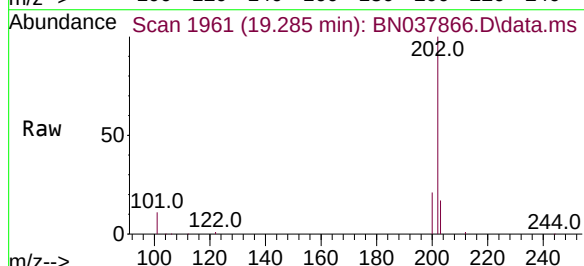
Tgt Ion:202 Resp: 209920

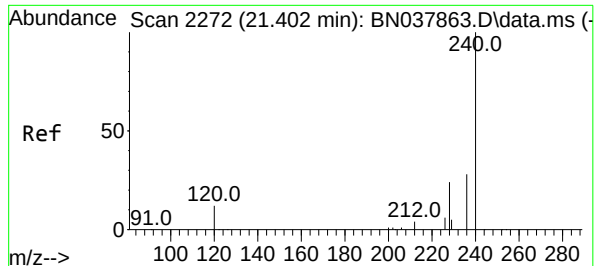
Ion Ratio Lower Upper

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

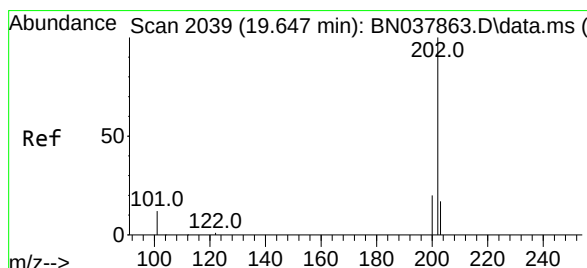
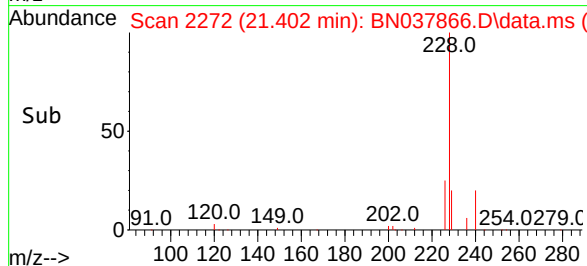
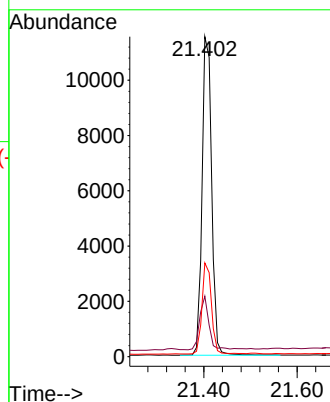
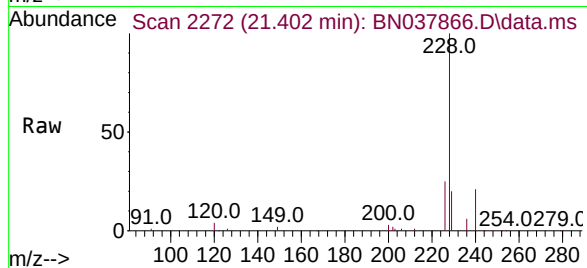
Tgt Ion:240 Resp: 16309

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

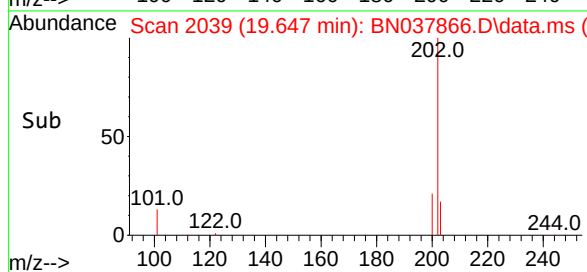
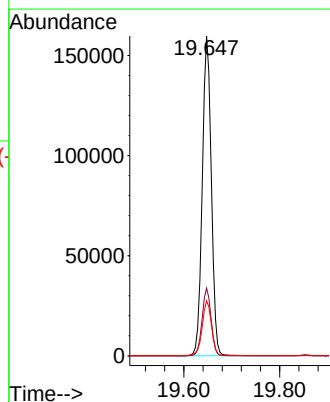
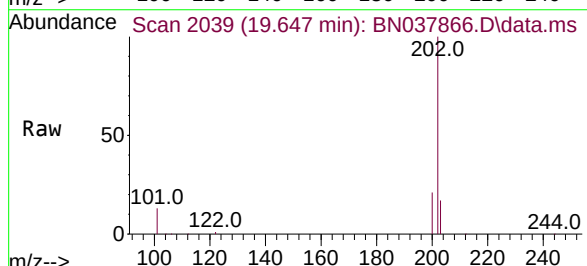
Tgt Ion:202 Resp: 208135

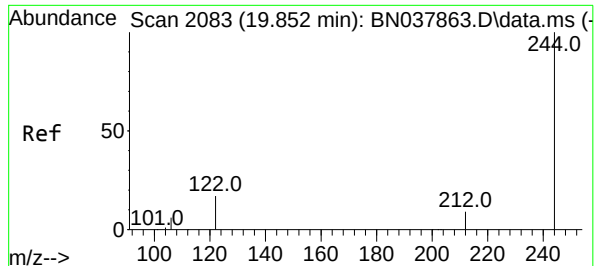
Ion Ratio Lower Upper

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

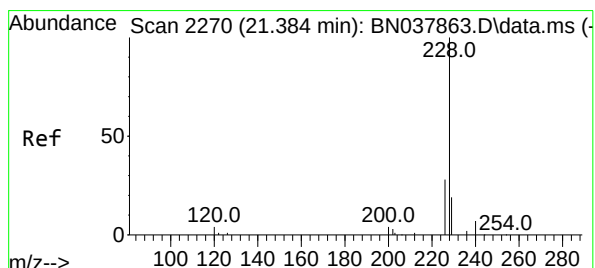
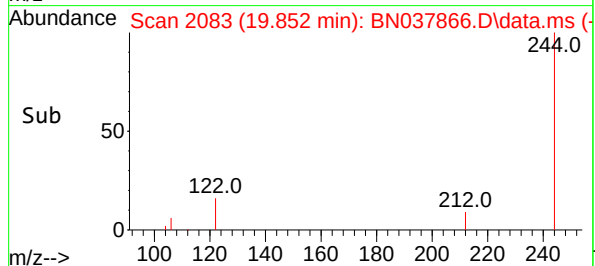
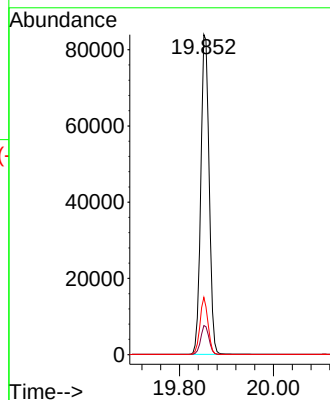
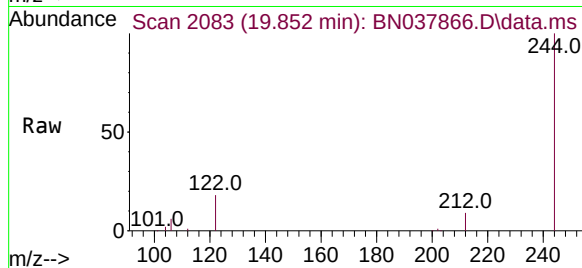
Tgt Ion:244 Resp: 105582

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

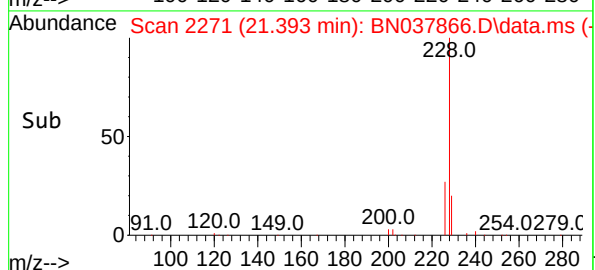
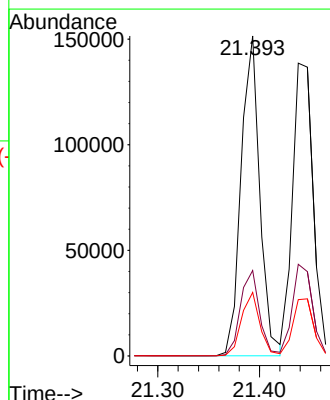
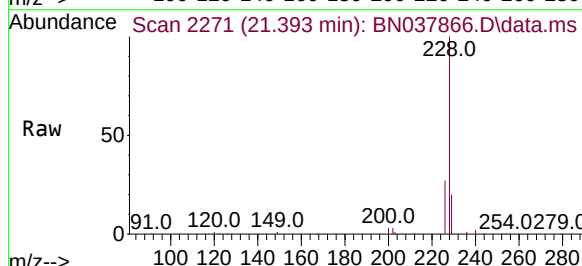
Tgt Ion:228 Resp: 193464

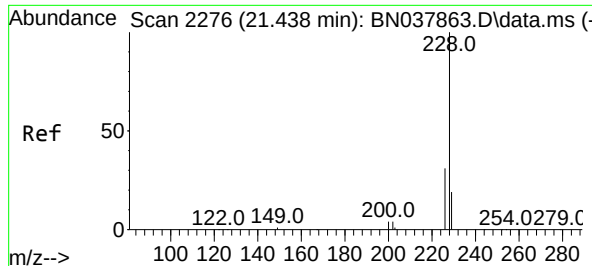
Ion Ratio Lower Upper

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

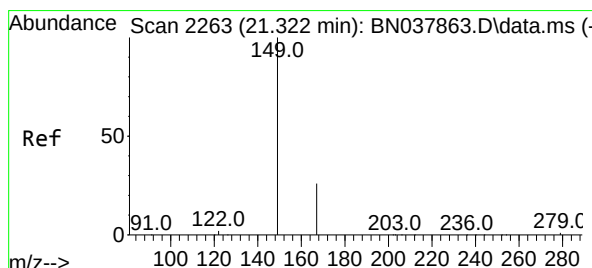
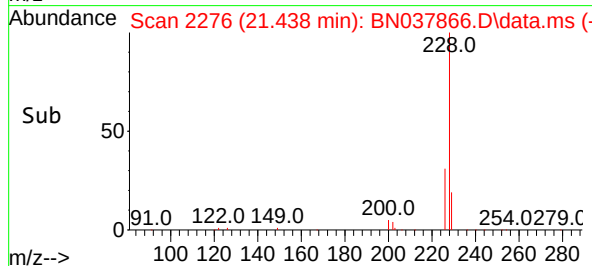
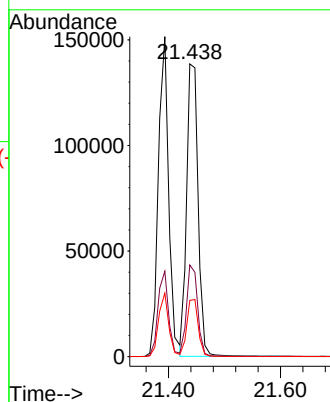
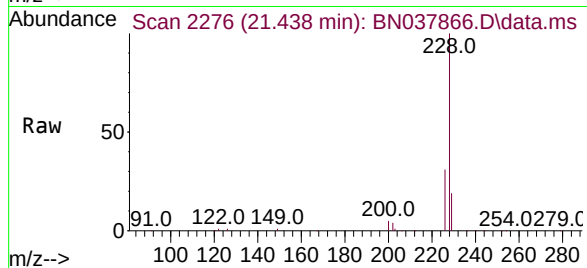
Tgt Ion:228 Resp: 197283

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

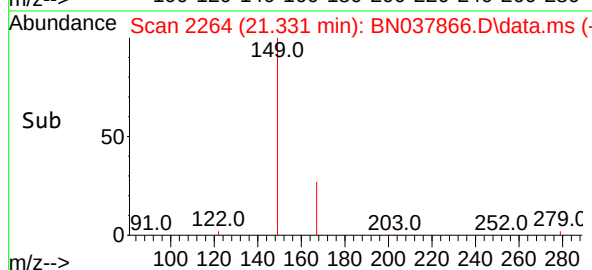
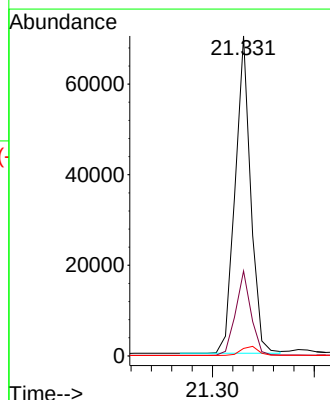
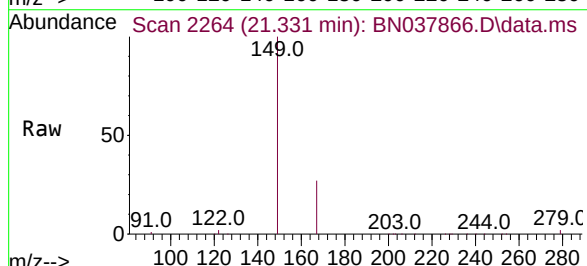
Tgt Ion:149 Resp: 74195

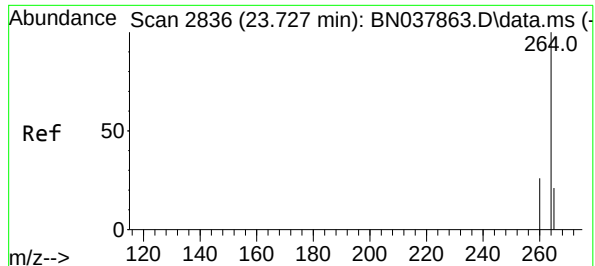
Ion Ratio Lower Upper

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

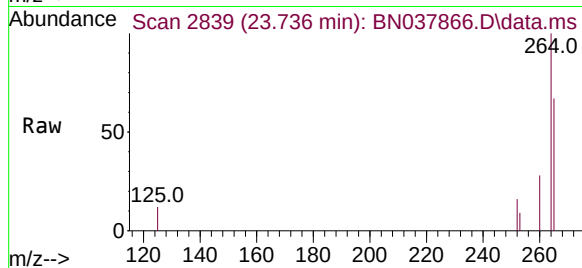
Acq: 23 Sep 2025 15:15

Instrument :

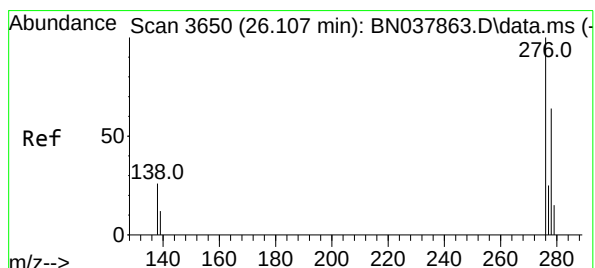
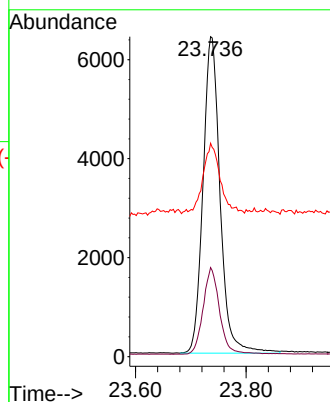
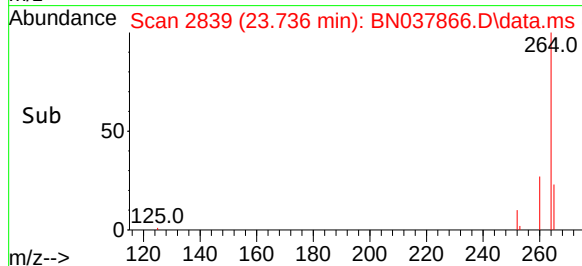
BNA_N

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

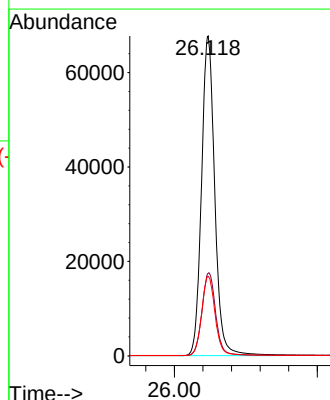
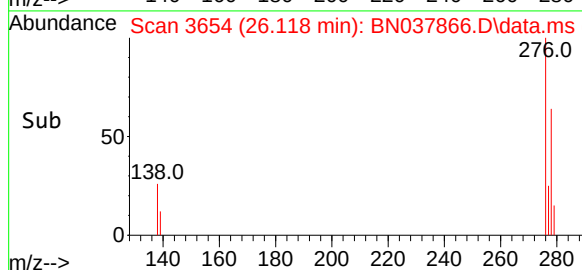
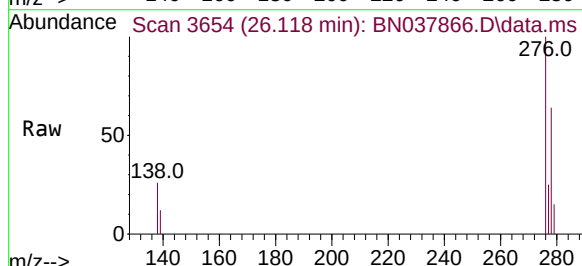
RT: 26.118 min Scan# 3654

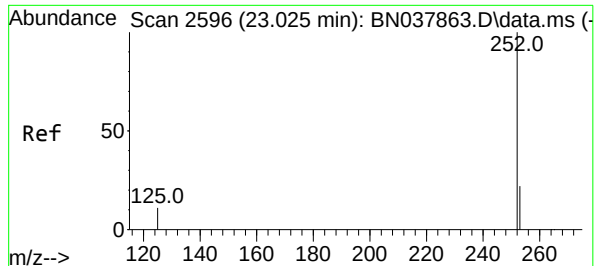
Delta R.T. 0.012 min

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

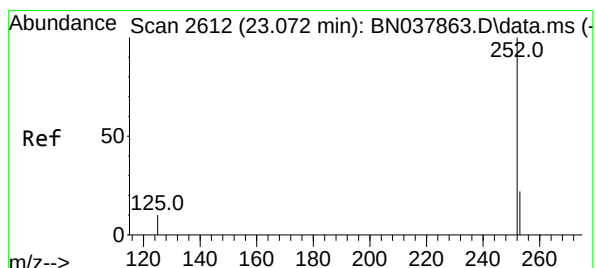
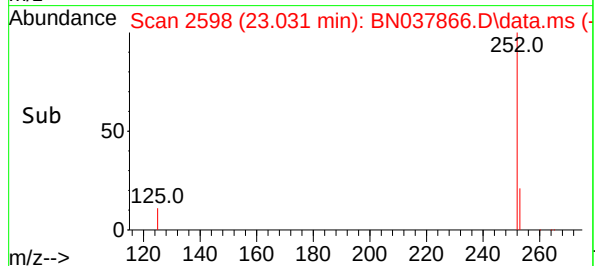
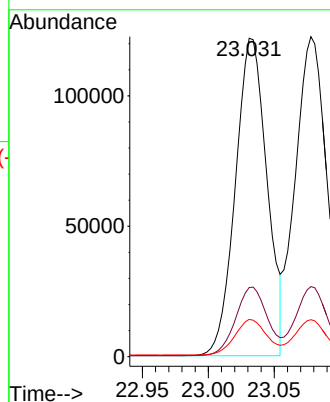
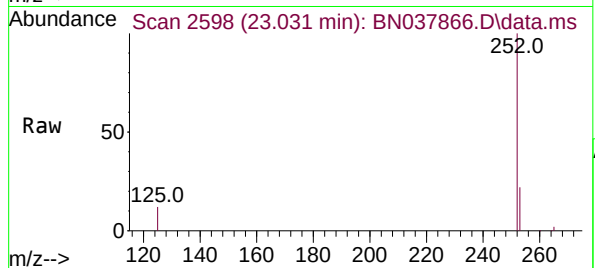
Tgt Ion:252 Resp: 202282

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

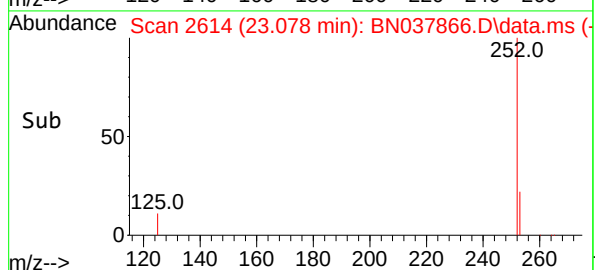
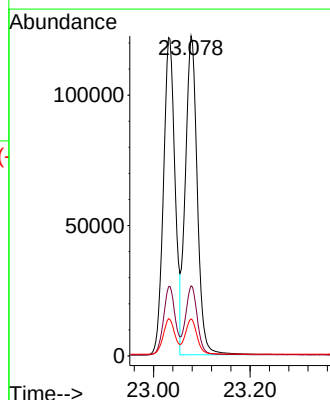
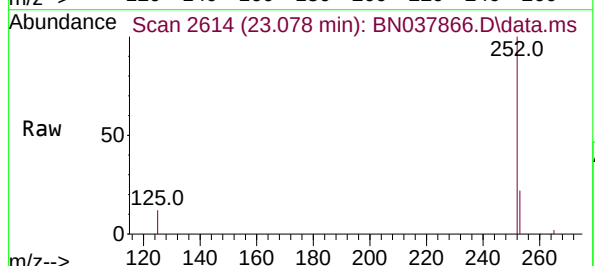
Tgt Ion:252 Resp: 209819

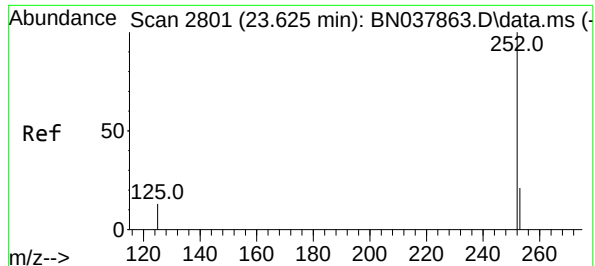
Ion Ratio Lower Upper

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

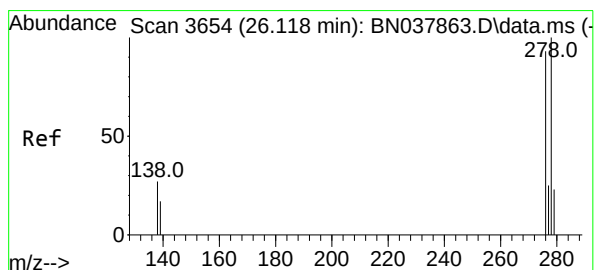
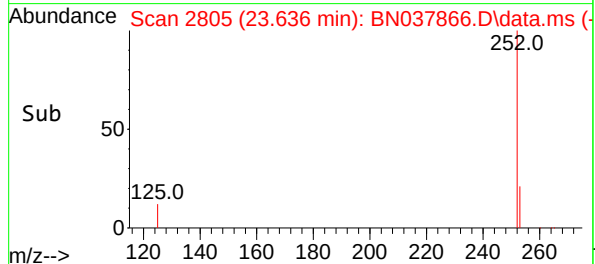
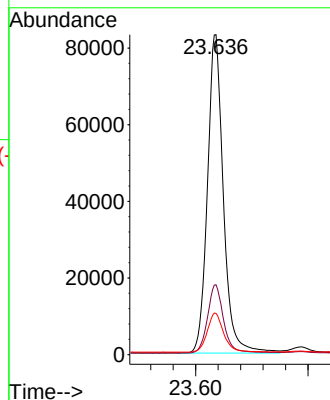
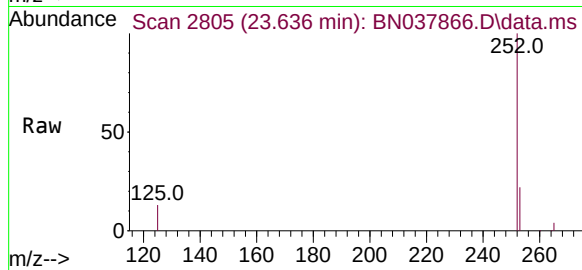
Tgt Ion:252 Resp: 163321

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

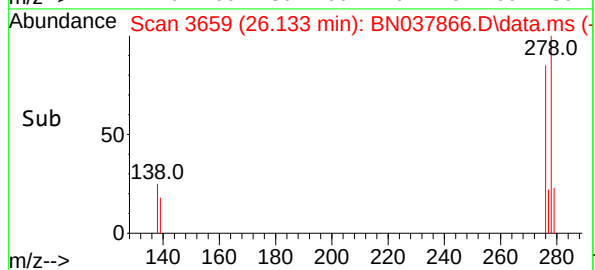
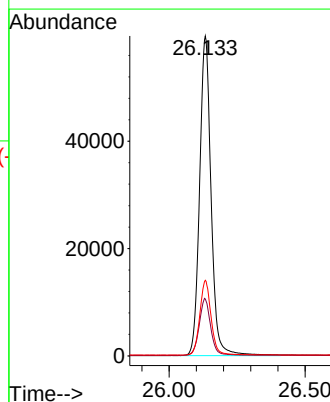
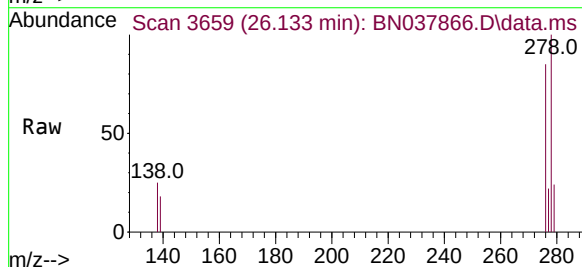
Tgt Ion:278 Resp: 173724

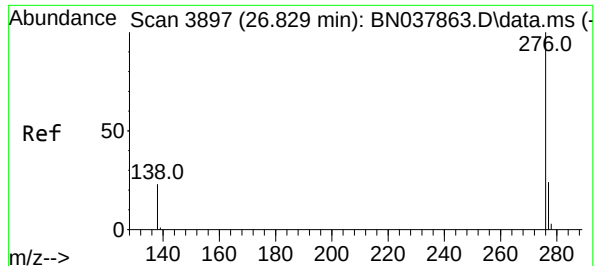
Ion Ratio Lower Upper

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

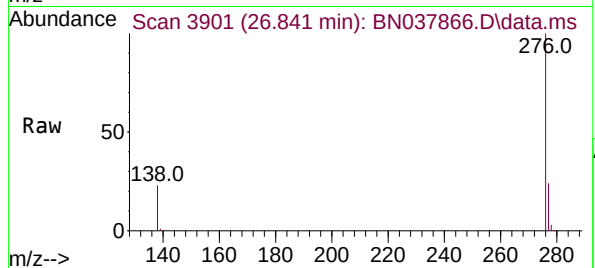
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



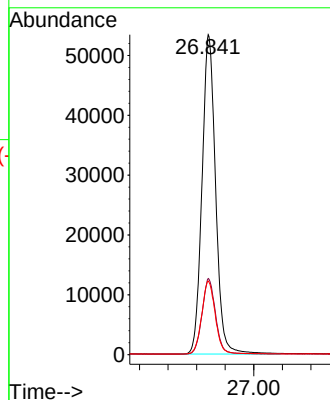
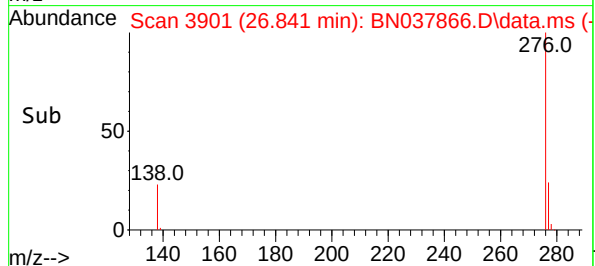
Tgt Ion:276 Resp: 176617

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

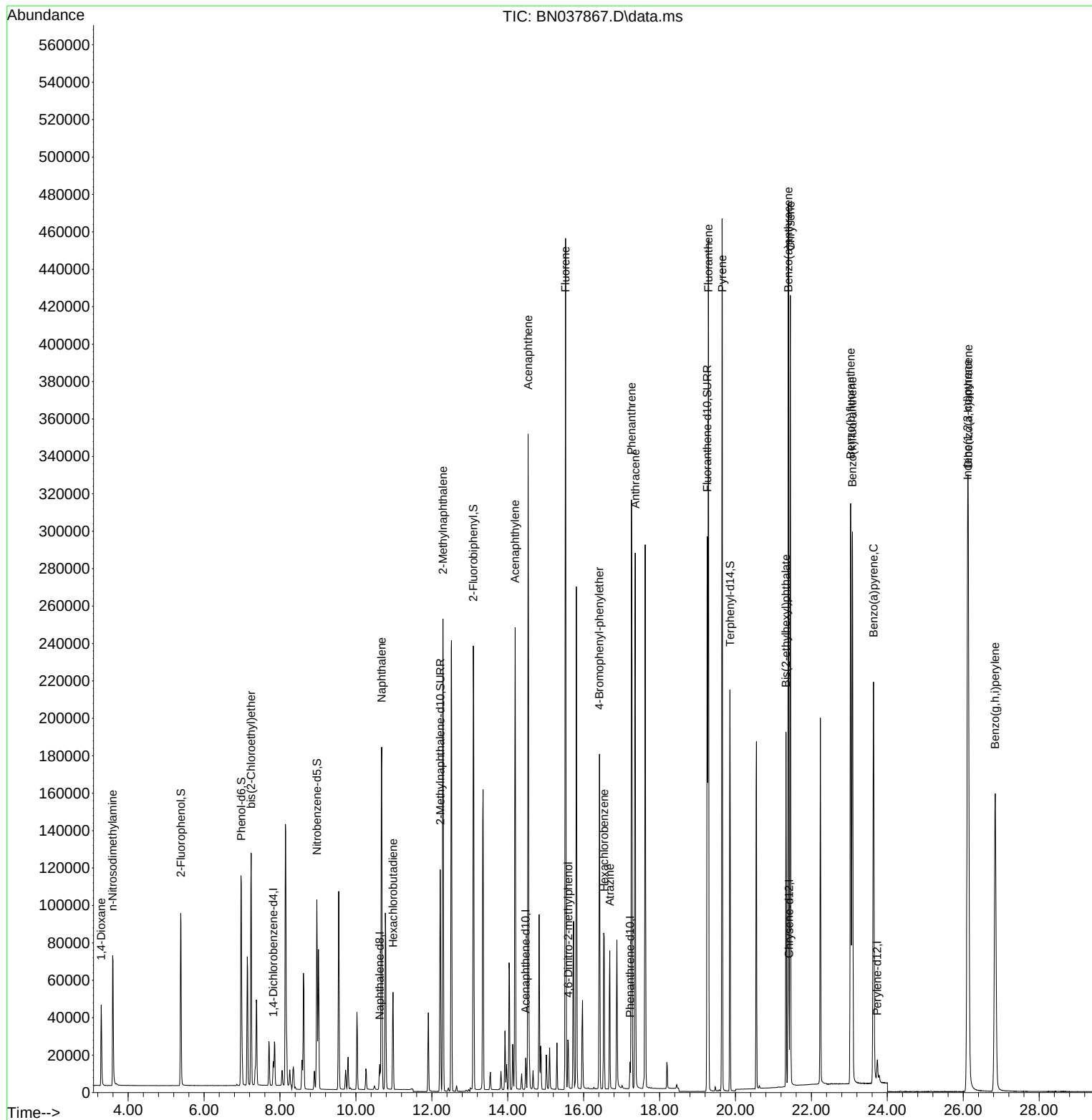
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng	0.00
29) Chrysene-d12	21.411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

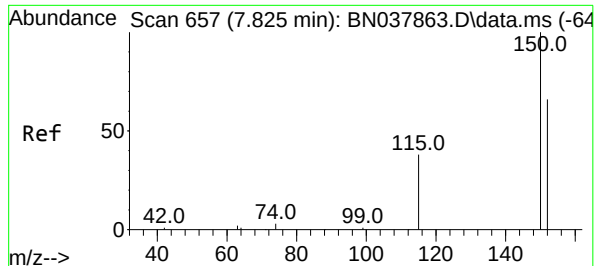
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

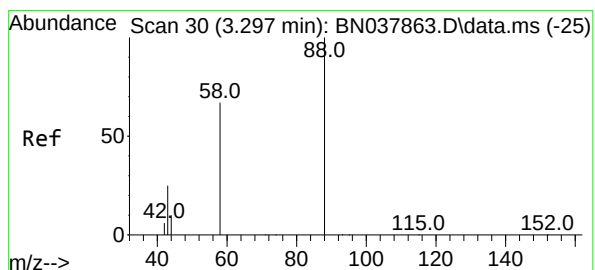
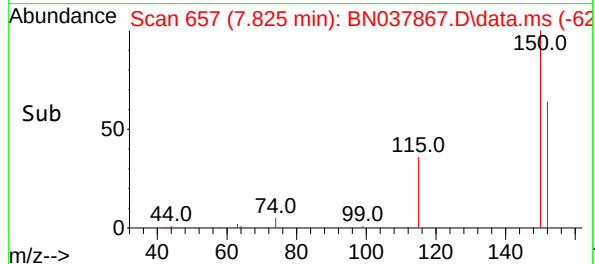
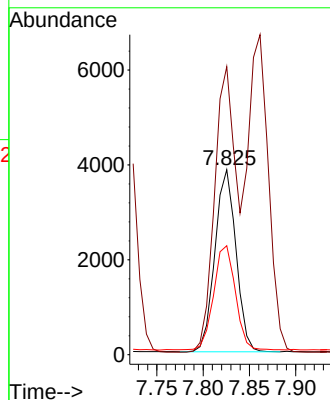
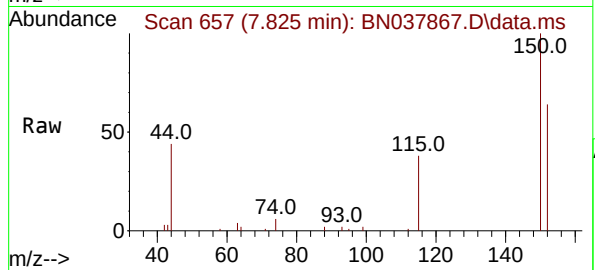




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

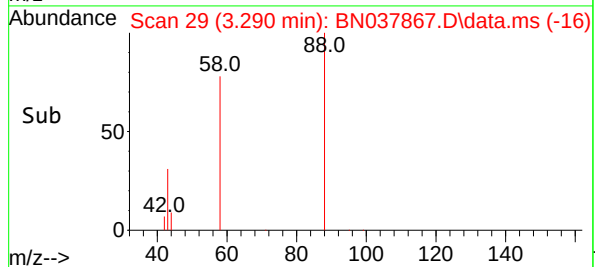
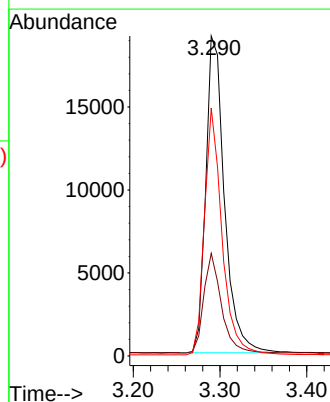
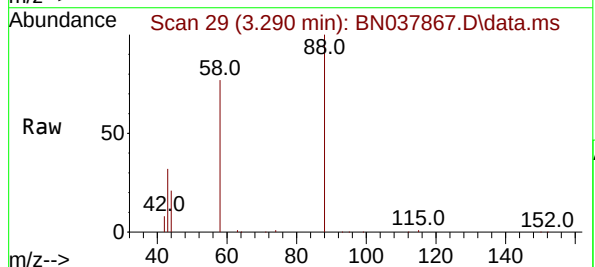
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

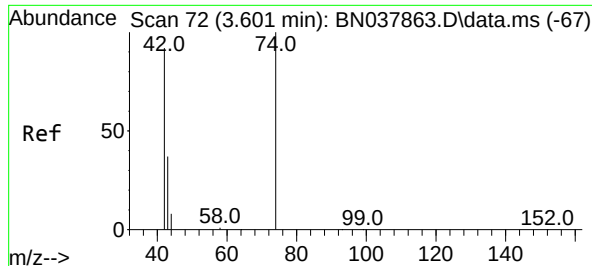
Tgt Ion:152 Resp: 6080
Ion Ratio Lower Upper
152 100
150 155.7 121.0 181.4
115 58.9 47.4 71.0



#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

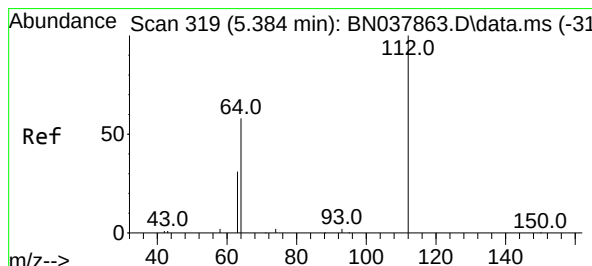
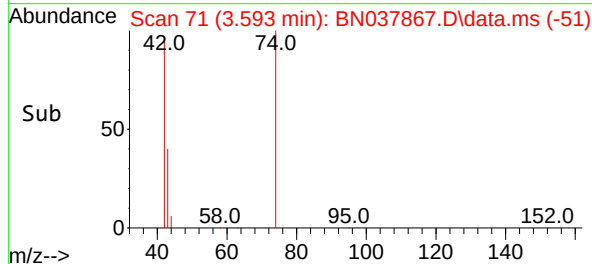
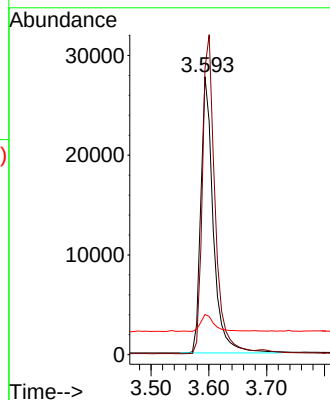
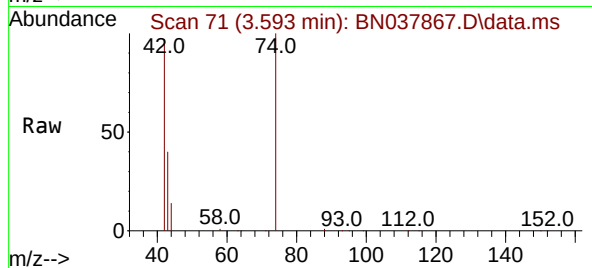




#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

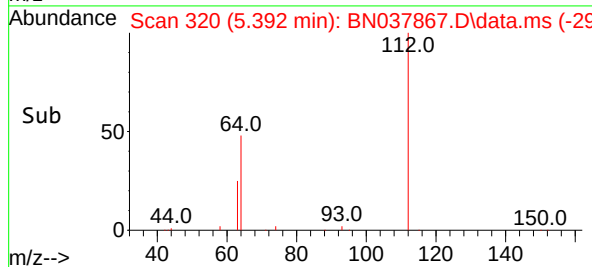
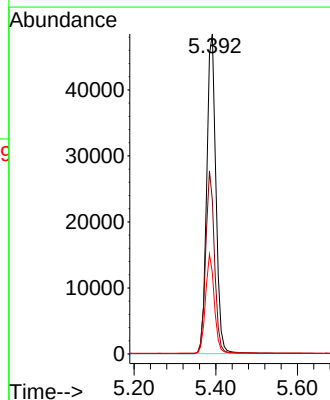
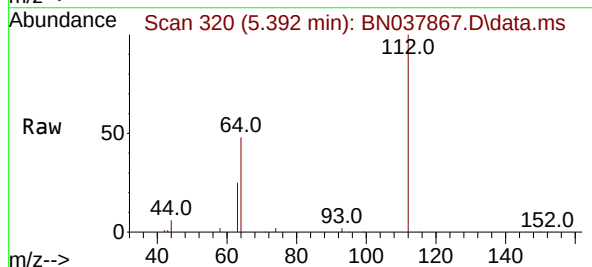
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

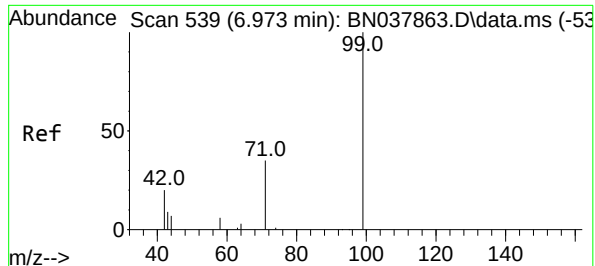
Tgt Ion: 42 Resp: 41574
Ion Ratio Lower Upper
42 100
74 117.0 93.4 140.0
44 6.5 22.2 33.4#



#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

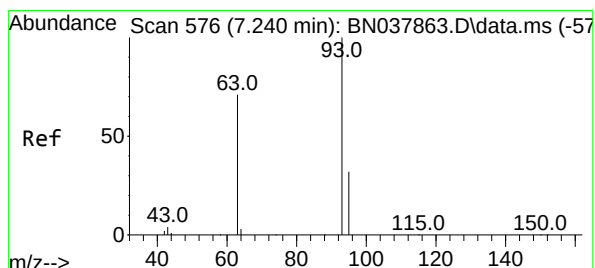
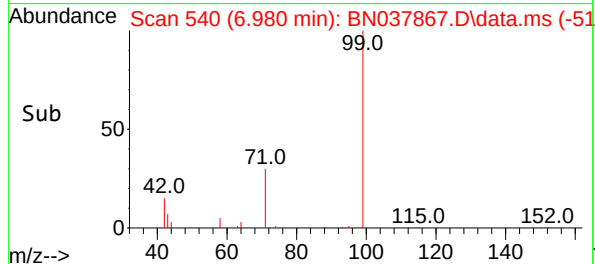
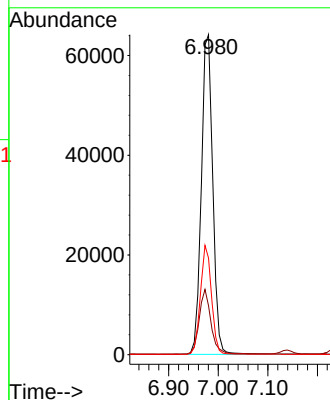
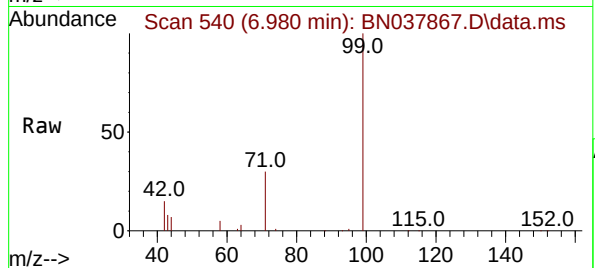
Tgt Ion: 99 Resp: 102802

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

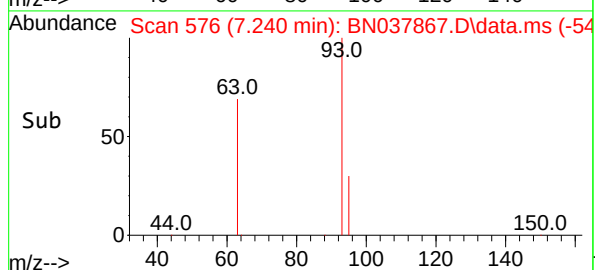
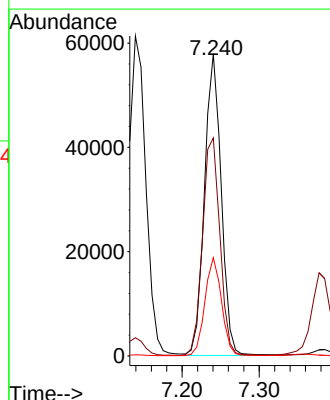
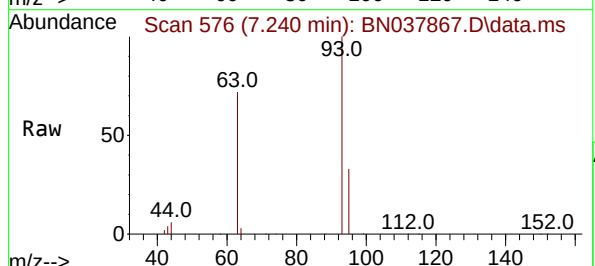
Tgt Ion: 93 Resp: 86881

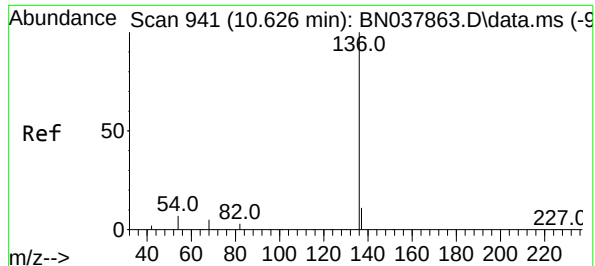
Ion Ratio Lower Upper

93 100

63 74.6 60.1 90.1

95 32.2 25.4 38.2

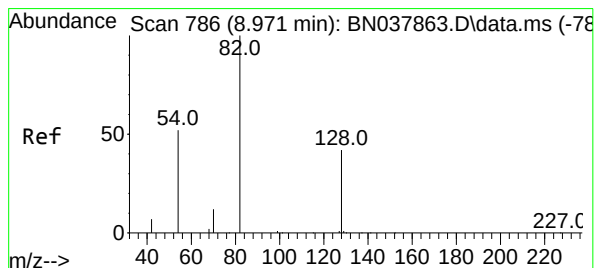
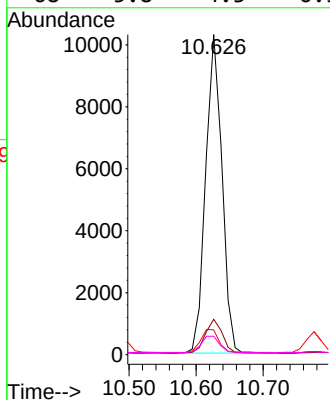
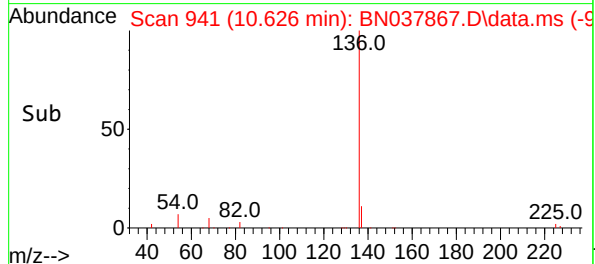
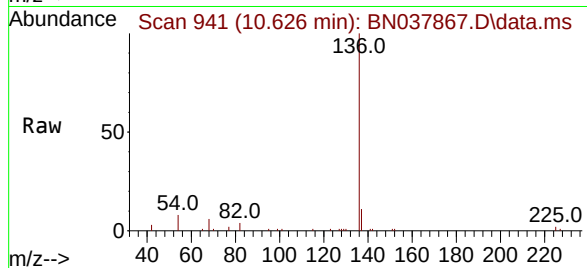




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

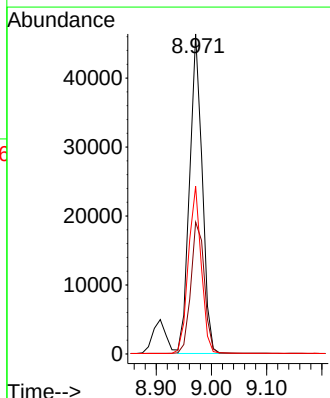
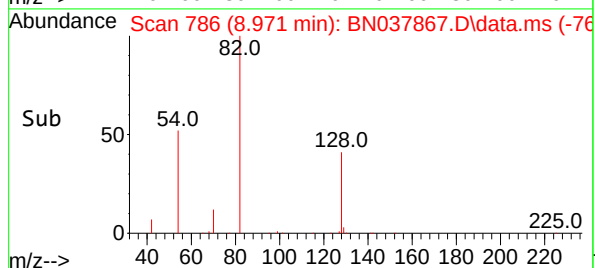
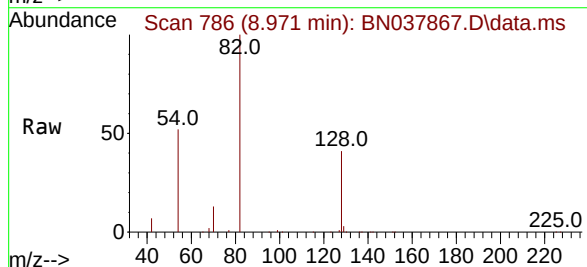
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

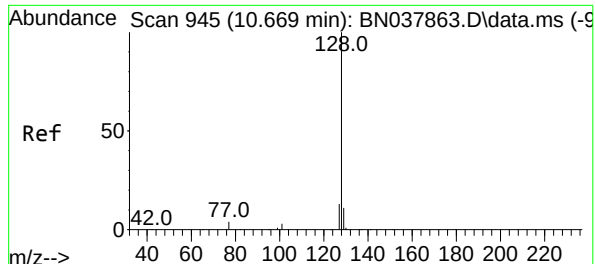
Tgt Ion:	136	Resp:	17301
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5



#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

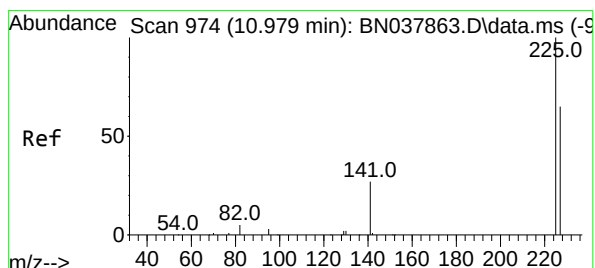
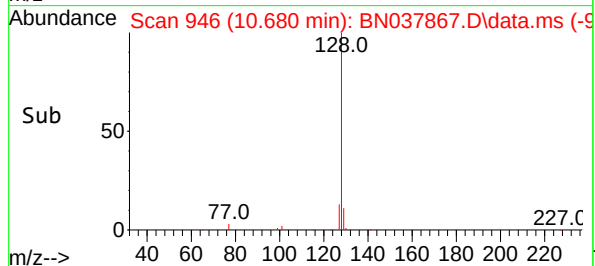
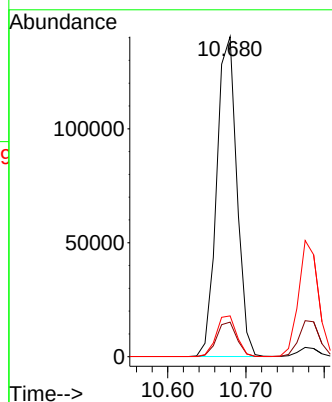
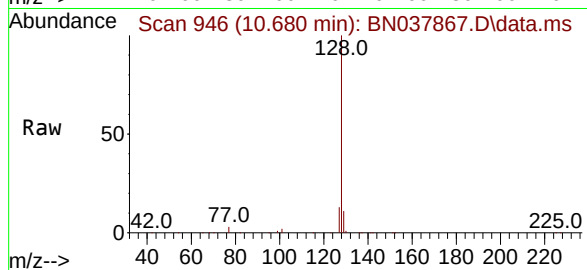
Tgt Ion:128 Resp: 250883

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

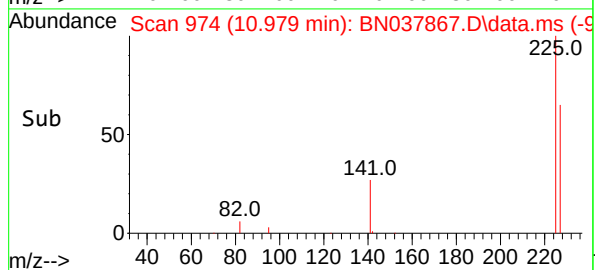
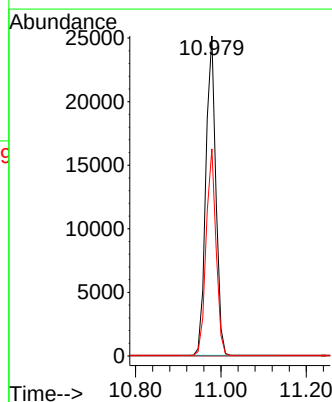
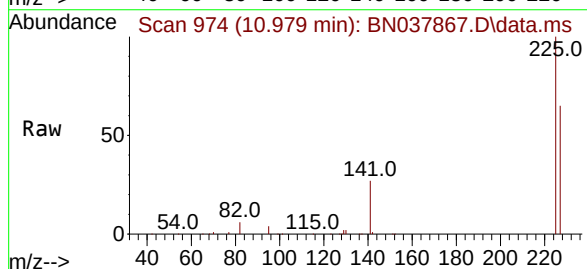
Tgt Ion:225 Resp: 40670

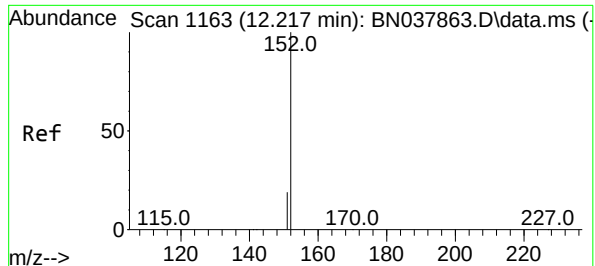
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 51.4 77.2

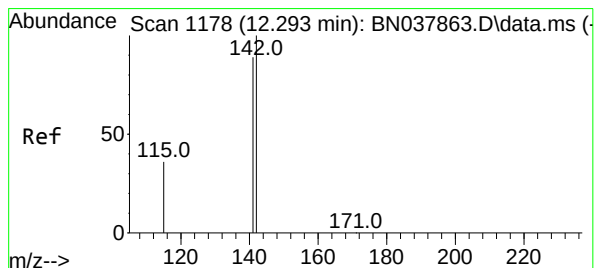
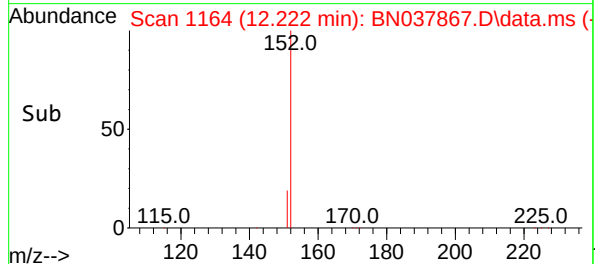
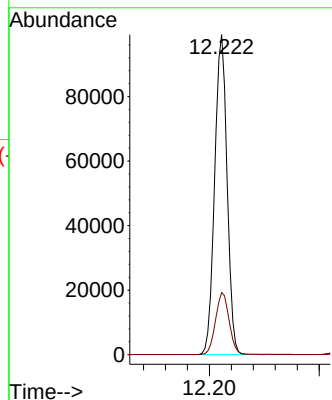
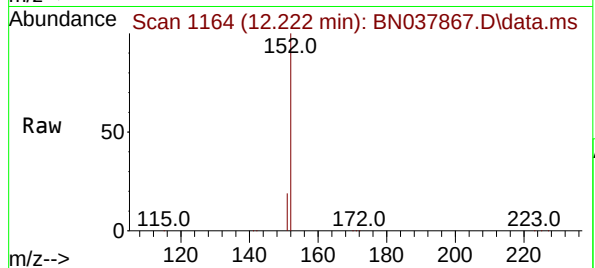




#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

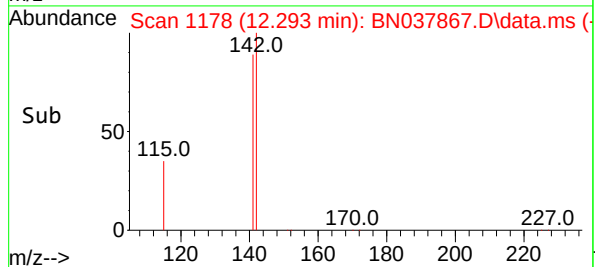
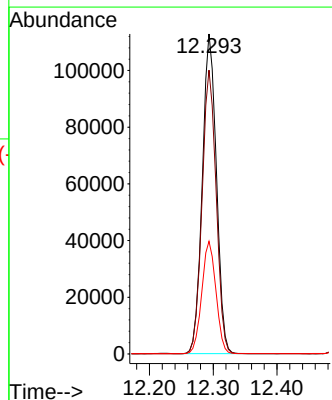
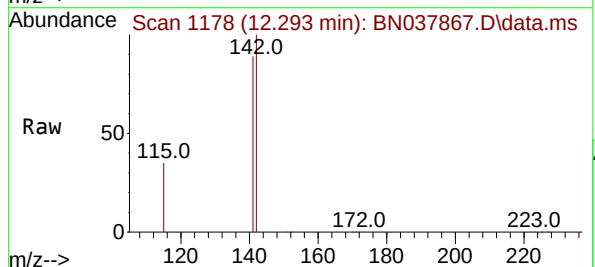
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

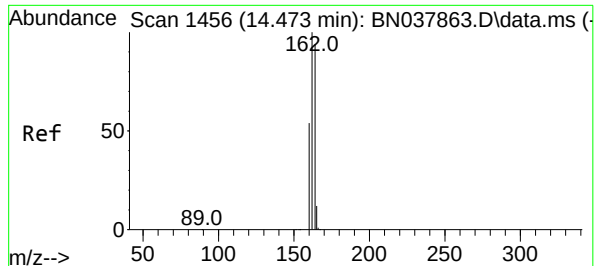
Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#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

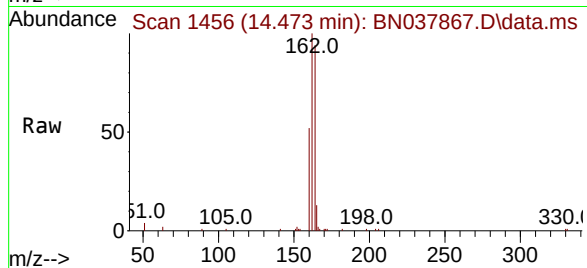
Tgt Ion:142 Resp: 173335
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8
115 35.2 29.7 44.5



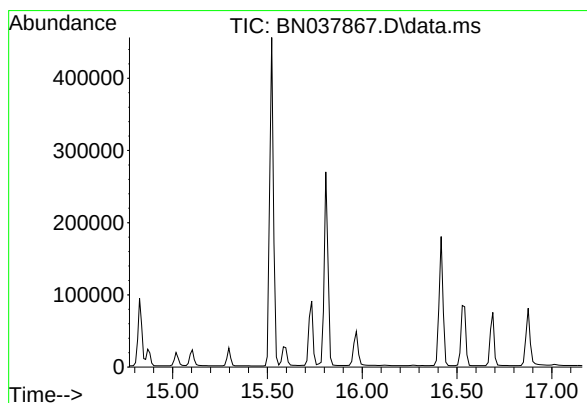
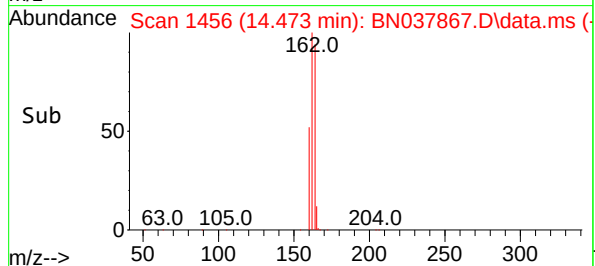
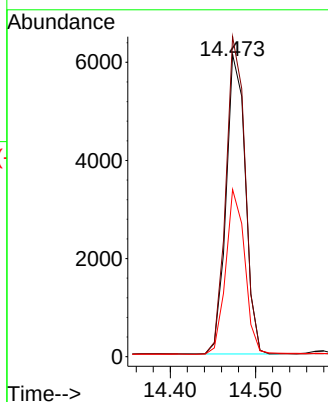


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



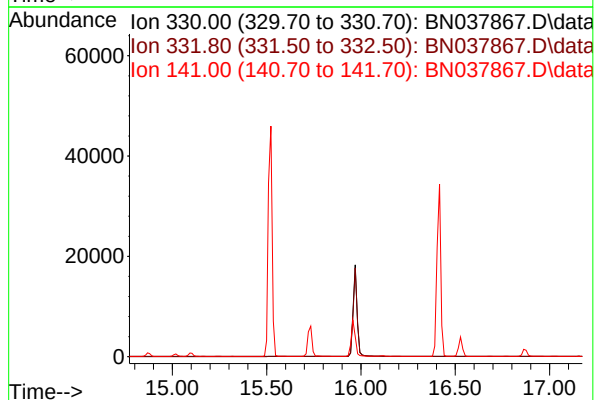
Tgt Ion:164 Resp: 9570
Ion Ratio Lower Upper
164 100
162 105.9 84.8 127.2
160 55.3 46.1 69.1

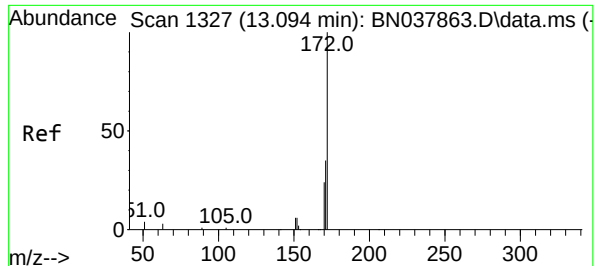


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

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

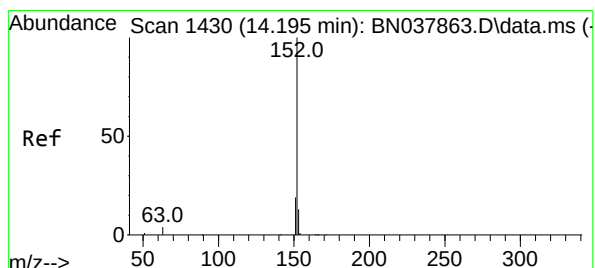
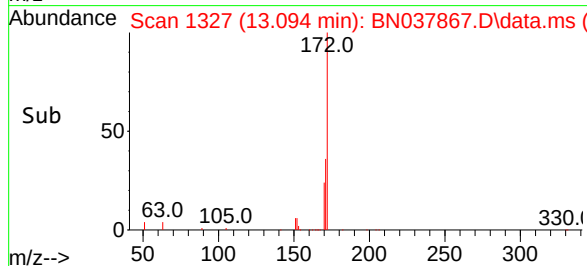
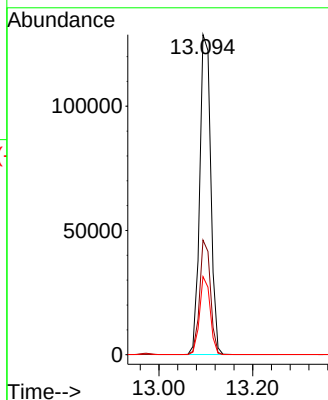
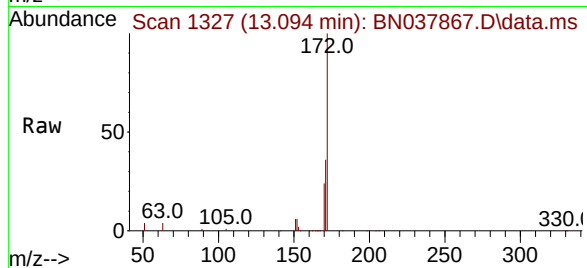
Tgt Ion:172 Resp: 210748

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

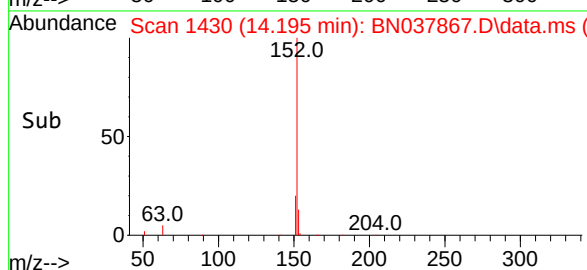
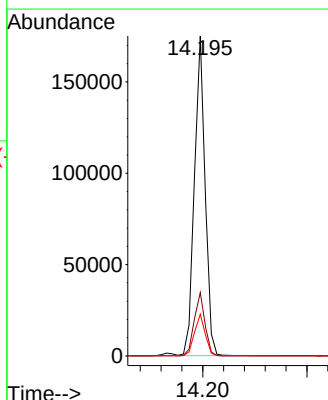
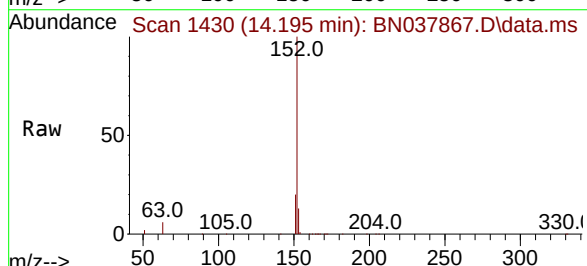
Tgt Ion:152 Resp: 250496

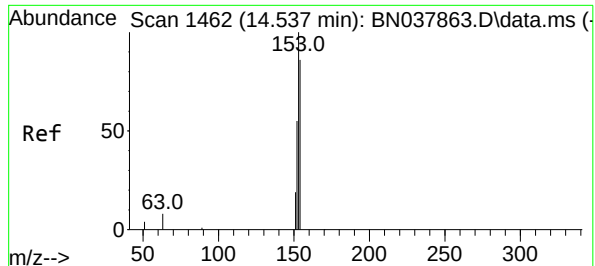
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7

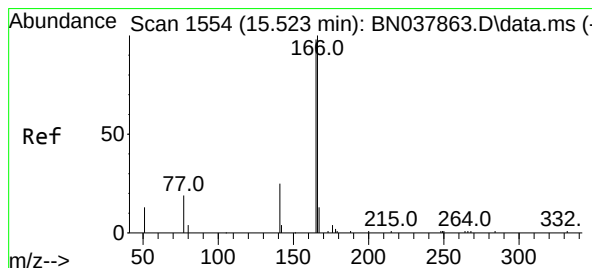
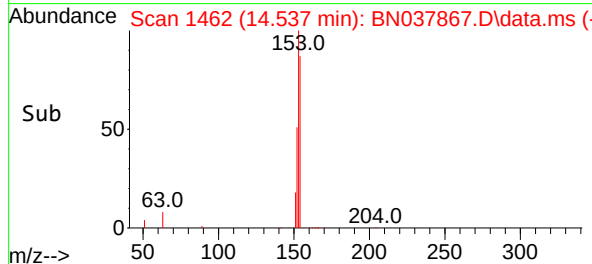
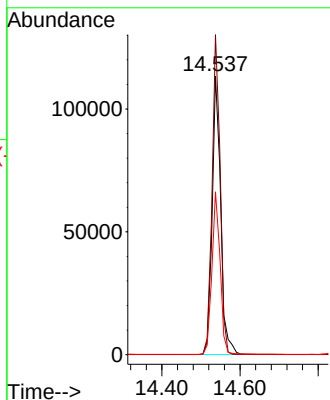
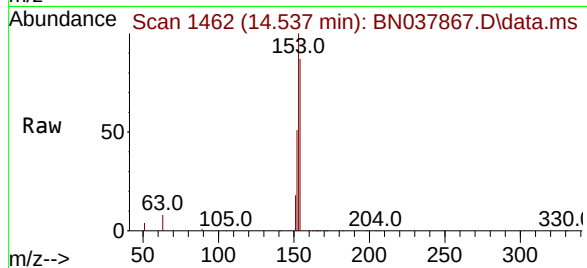




#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

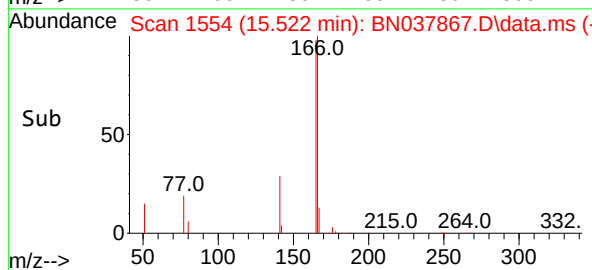
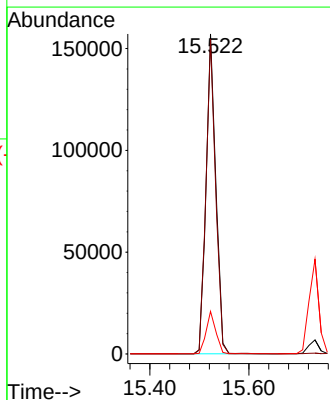
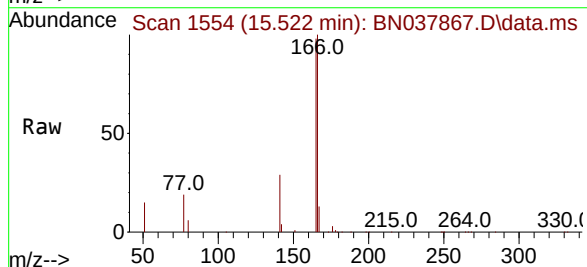
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

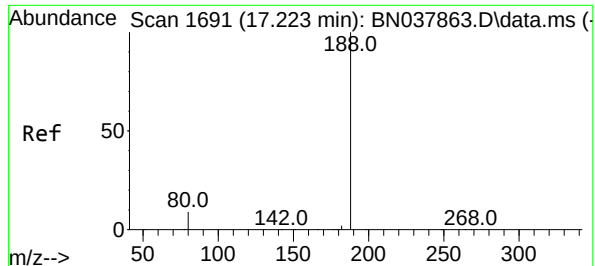
Tgt Ion:154 Resp: 171955
Ion Ratio Lower Upper
154 100
153 108.8 90.5 135.7
152 56.5 51.8 77.8



#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

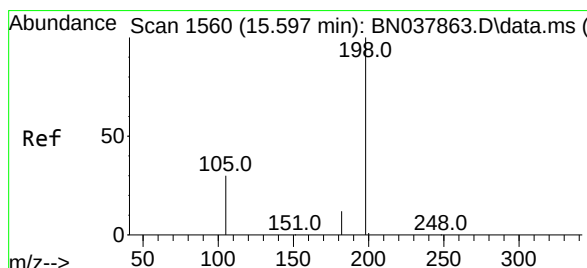
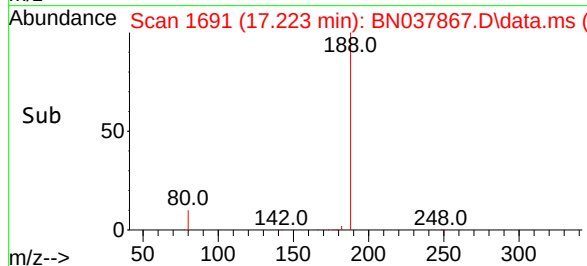
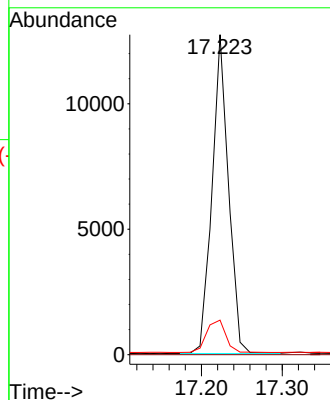
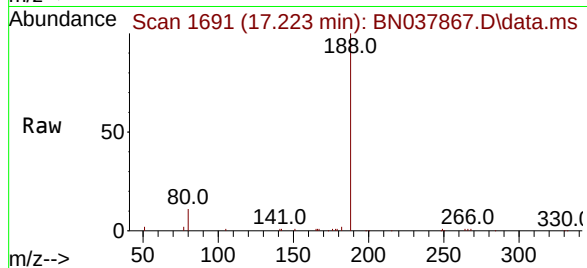
Tgt Ion:188 Resp: 17948

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

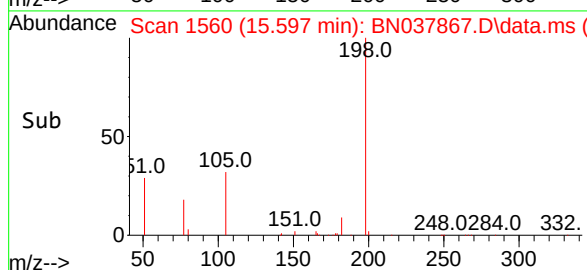
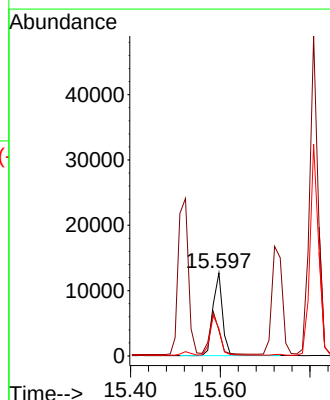
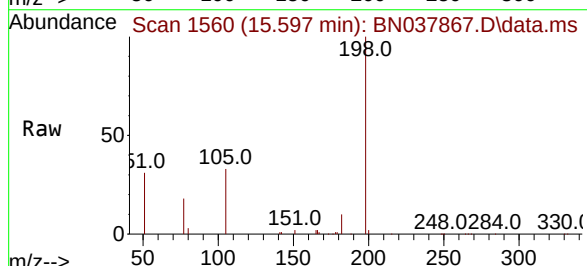
Tgt Ion:198 Resp: 18771

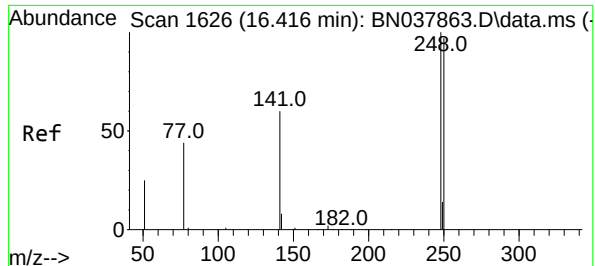
Ion Ratio Lower Upper

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

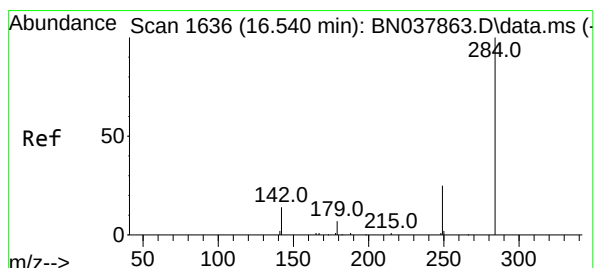
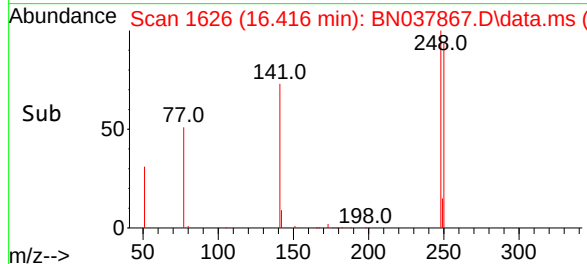
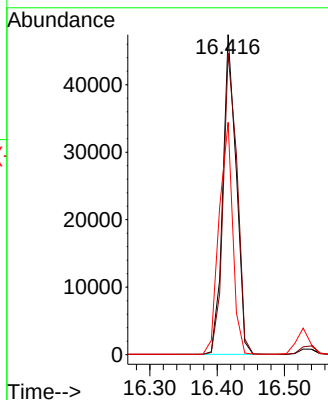
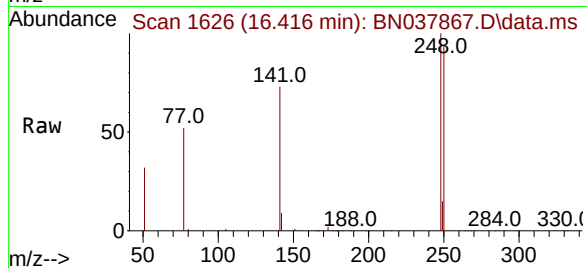
Tgt Ion:248 Resp: 65230

Ion Ratio Lower Upper

248 100

250 94.2 77.6 116.4

141 72.6 48.8 73.2



#22

Hexachlorobenzene

Concen: 5.252 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

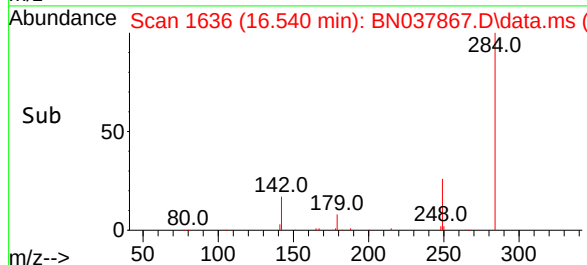
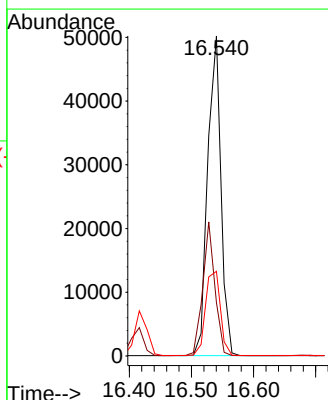
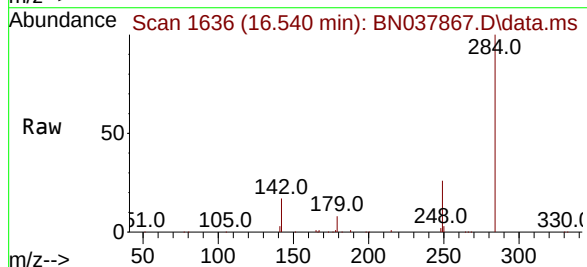
Tgt Ion:284 Resp: 74475

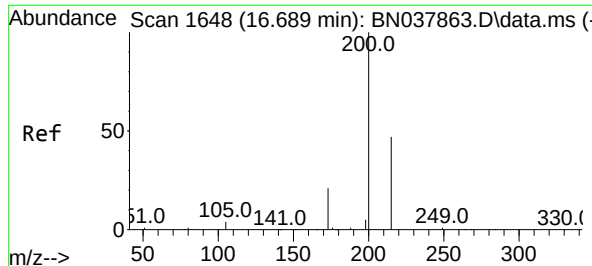
Ion Ratio Lower Upper

284 100

142 38.4 30.9 46.3

249 29.6 23.9 35.9

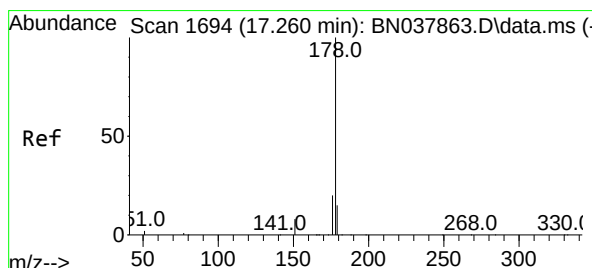
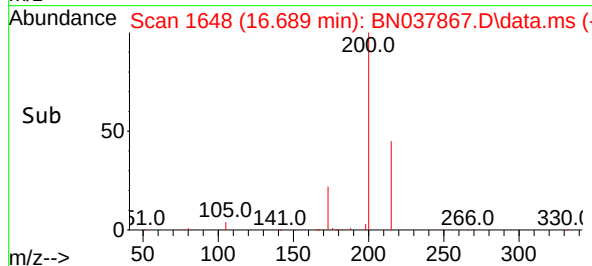
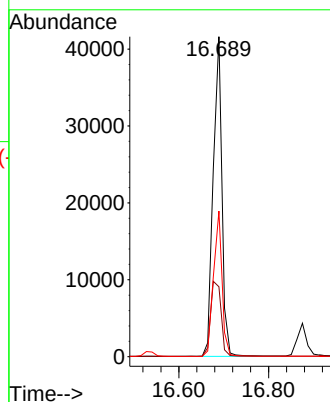
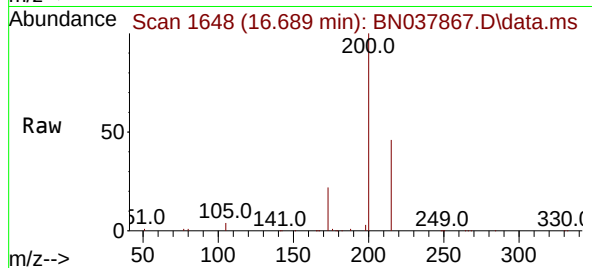




#23
Atrazine
Concen: 6.284 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

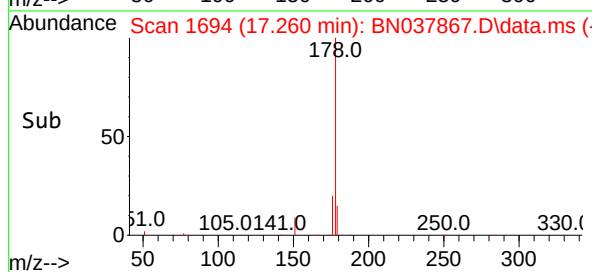
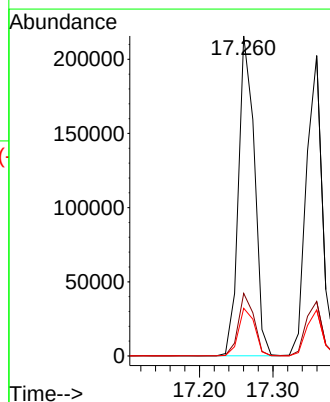
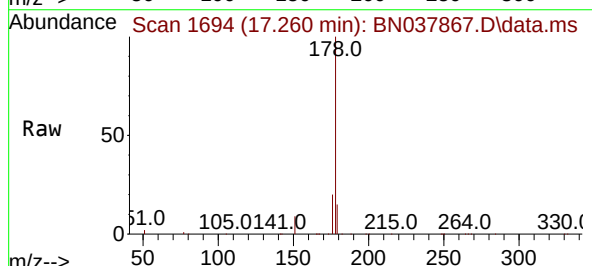
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

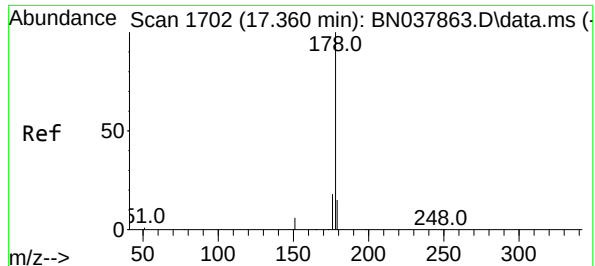
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.8	18.3	27.5
215	45.5	38.6	58.0



#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	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.1	12.3	18.5

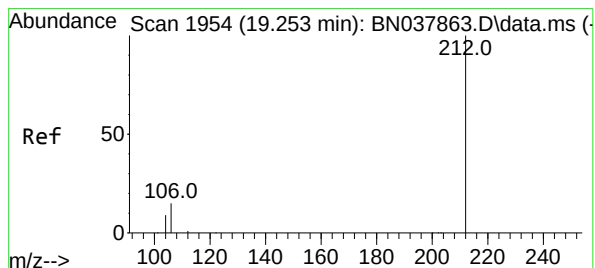
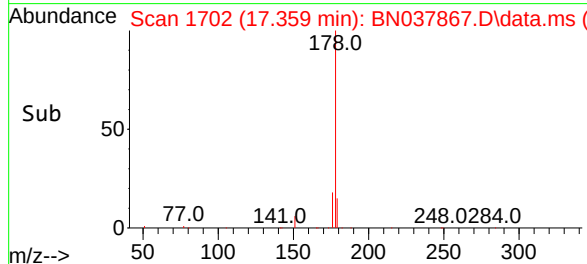
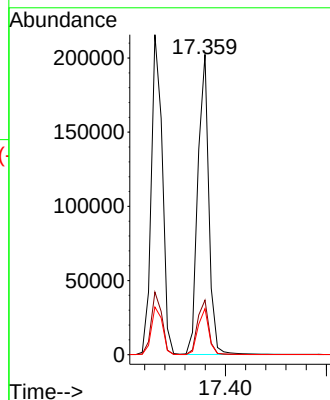
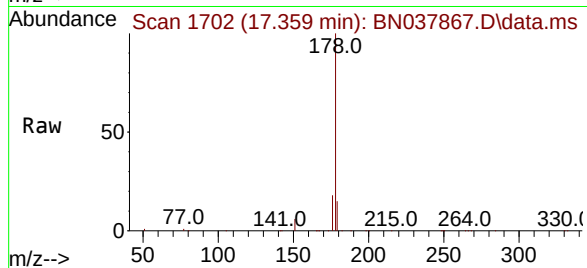




#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

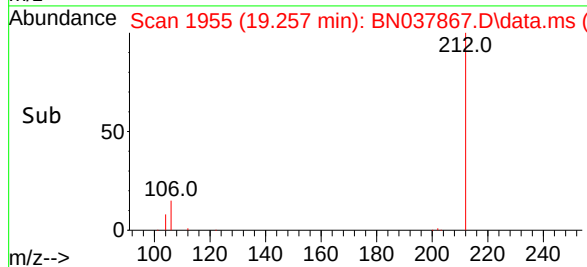
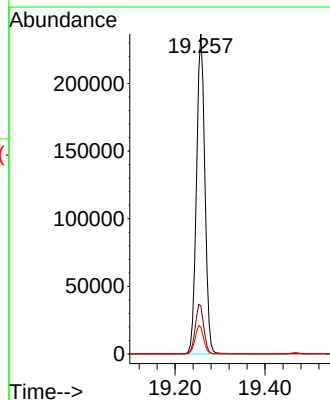
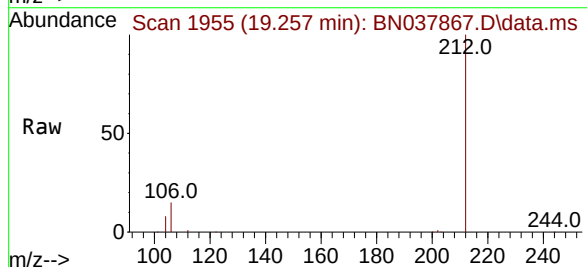
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

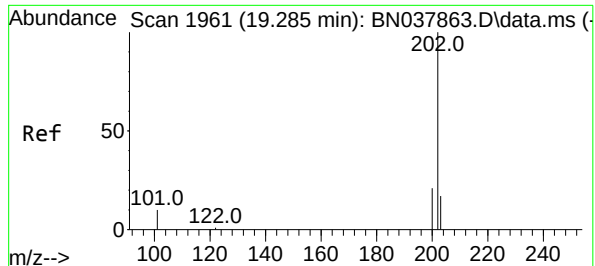
Tgt Ion:178 Resp: 305295
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5



#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

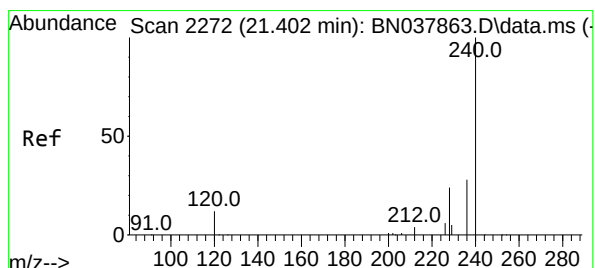
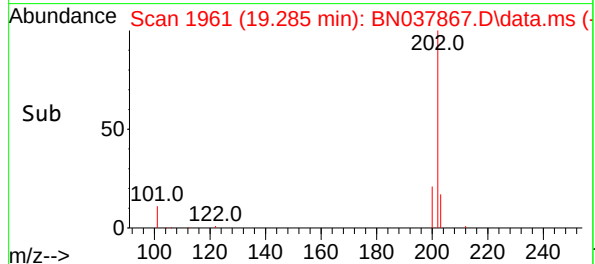
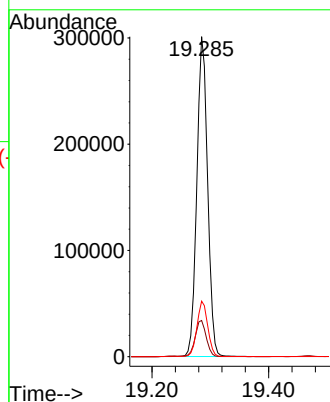
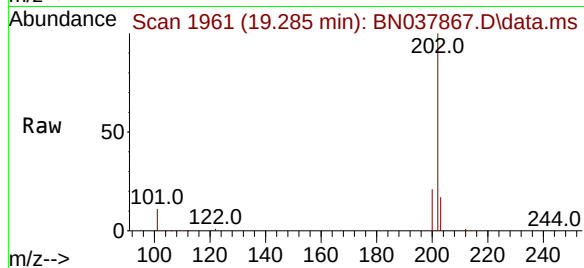




#28
Fluoranthene
Concen: 5.908 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

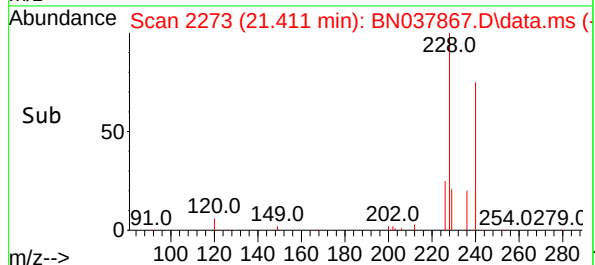
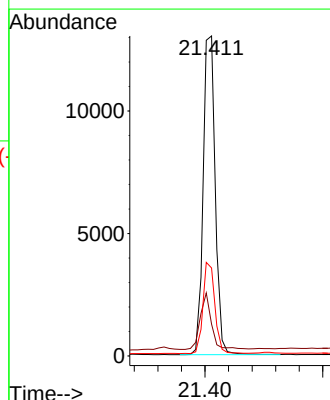
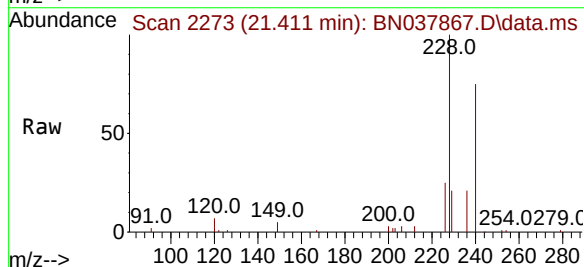
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

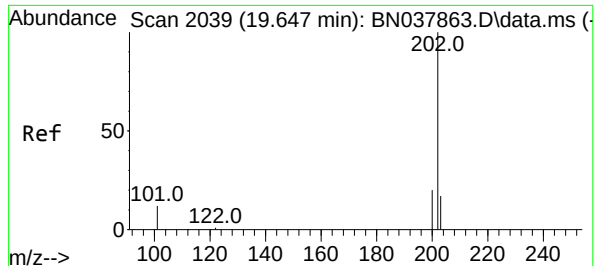
Tgt Ion:202 Resp: 384292
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.3 13.6 20.4



#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

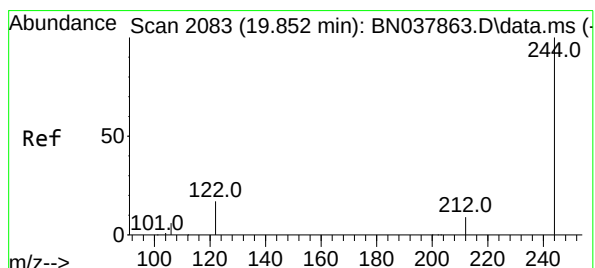
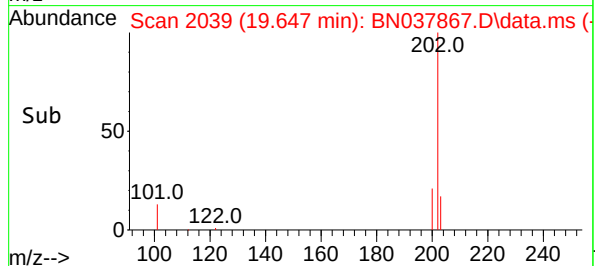
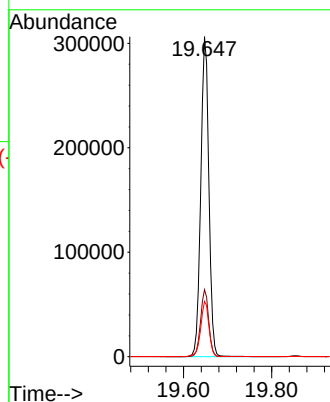
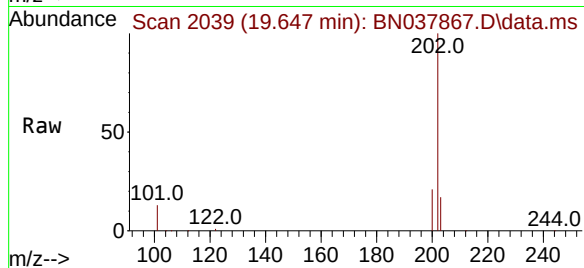
Tgt Ion:202 Resp: 388849

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

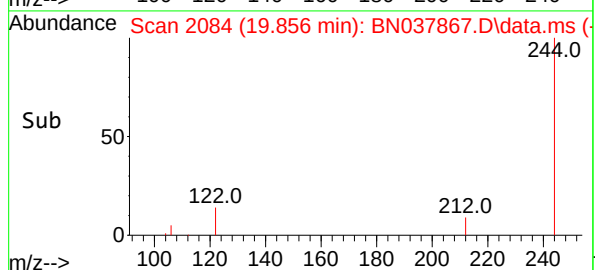
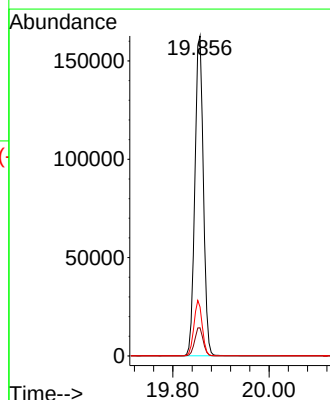
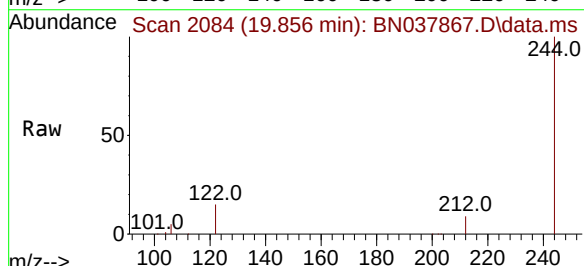
Tgt Ion:244 Resp: 206917

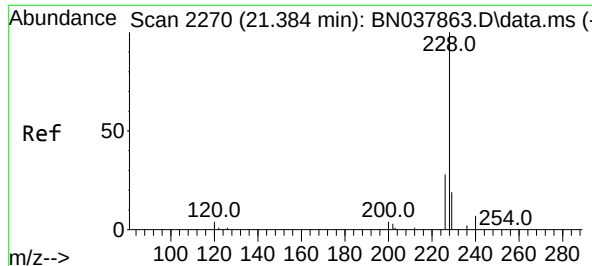
Ion Ratio Lower Upper

244 100

212 8.8 7.6 11.4

122 15.3 13.9 20.9

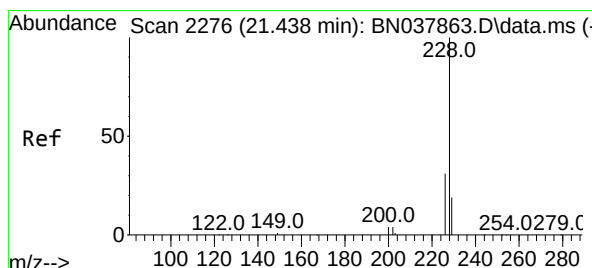
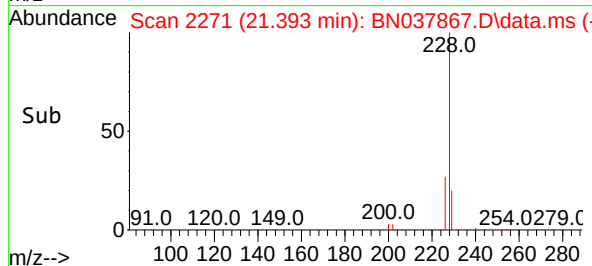
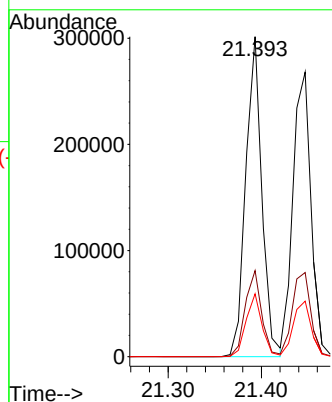
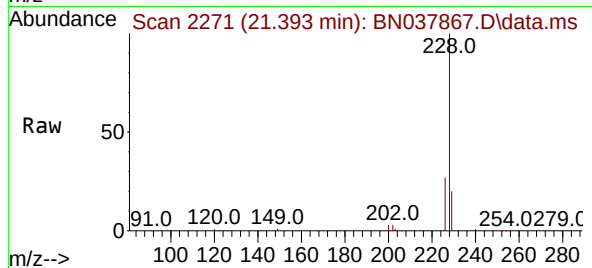




#32
Benzo(a)anthracene
Concen: 5.604 ng
RT: 21.393 min Scan# 21393
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

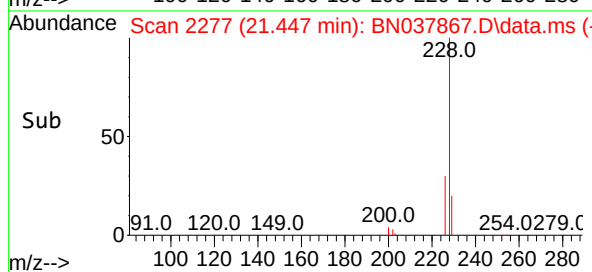
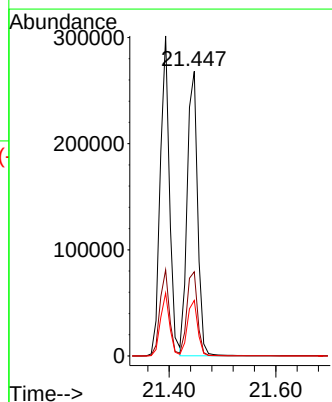
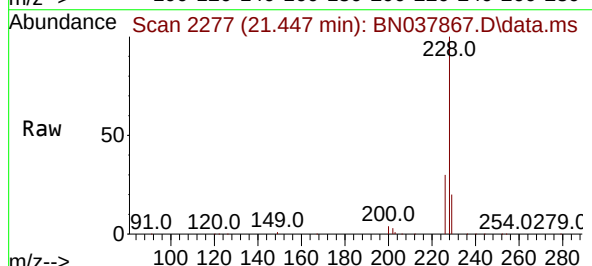
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

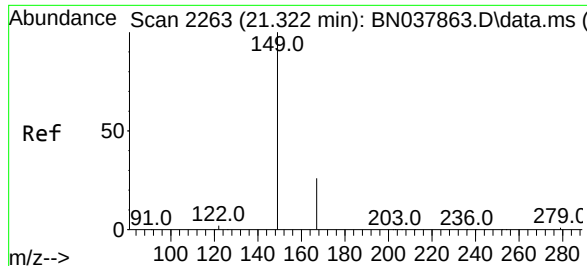
Tgt Ion:228 Resp: 362927
Ion Ratio Lower Upper
228 100
226 26.9 22.6 33.8
229 19.7 15.6 23.4



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

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





#34

Bis(2-ethylhexyl)phthalate

Concen: 6.109 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

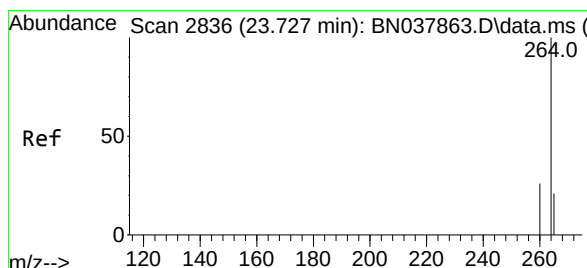
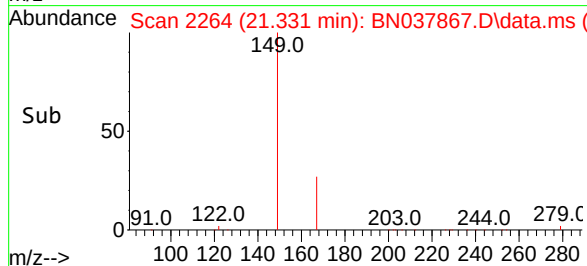
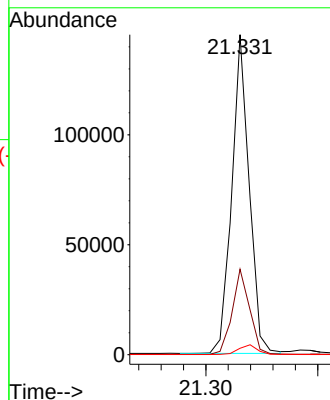
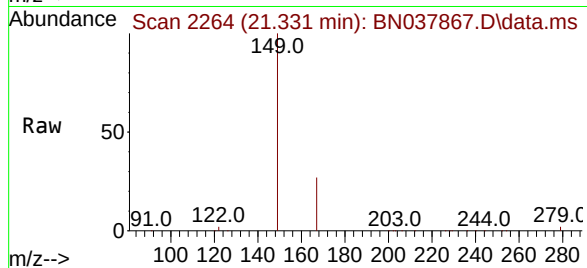
Tgt Ion:149 Resp: 156492

Ion Ratio Lower Upper

149 100

167 26.8 20.4 30.6

279 3.2 2.4 3.6



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

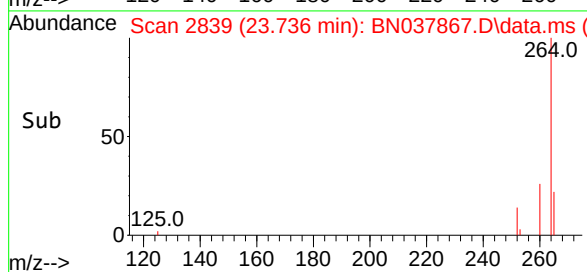
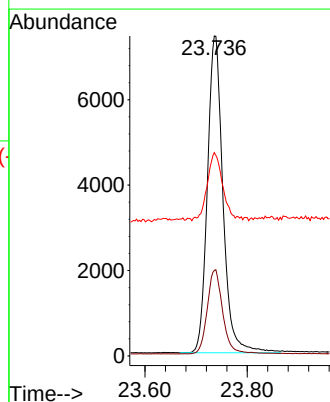
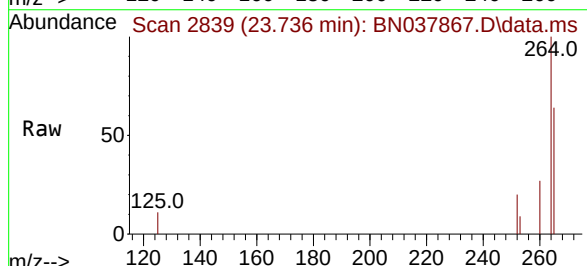
Tgt Ion:264 Resp: 15649

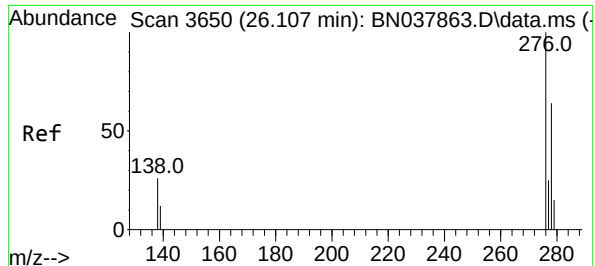
Ion Ratio Lower Upper

264 100

260 26.8 21.5 32.3

265 63.5 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.906 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

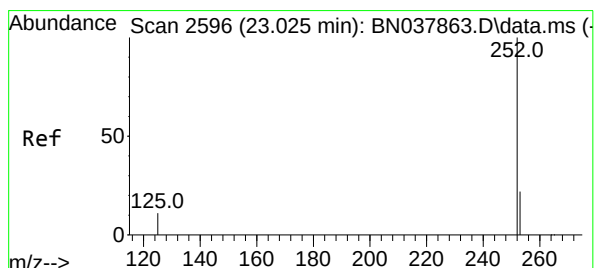
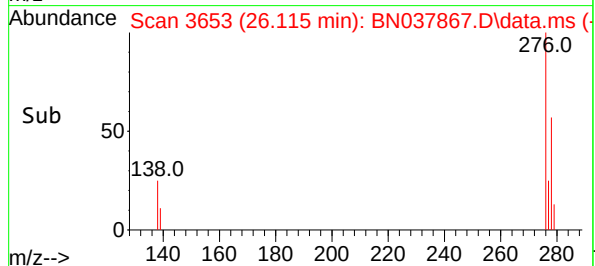
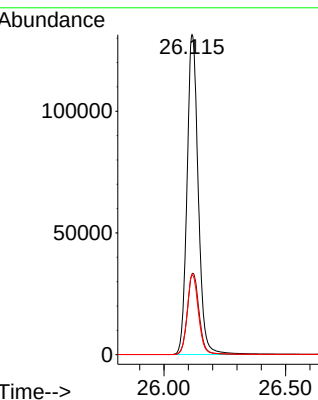
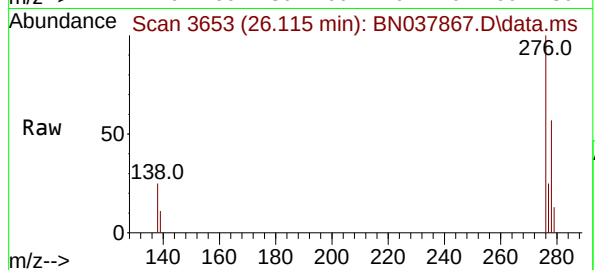
Tgt Ion:276 Resp: 422337

Ion Ratio Lower Upper

276 100

138 26.3 21.4 32.0

277 25.1 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 5.742 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

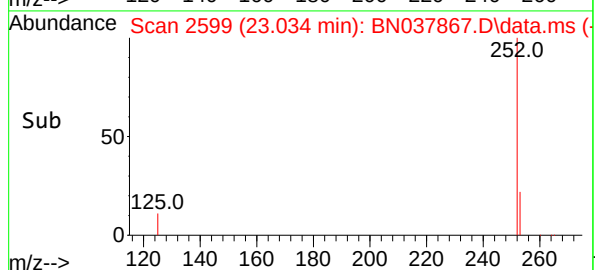
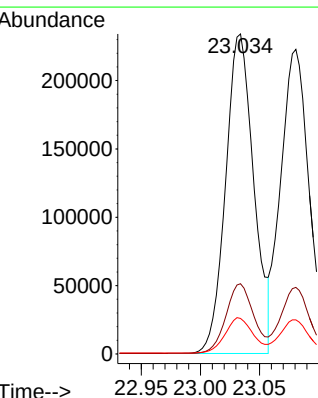
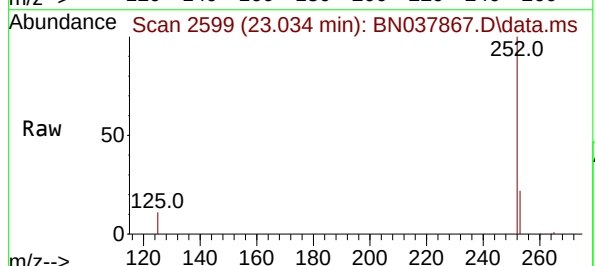
Tgt Ion:252 Resp: 387512

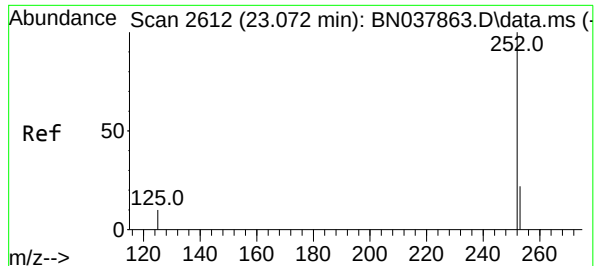
Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.0

125 11.1 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 23.081 min Scan# 2

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

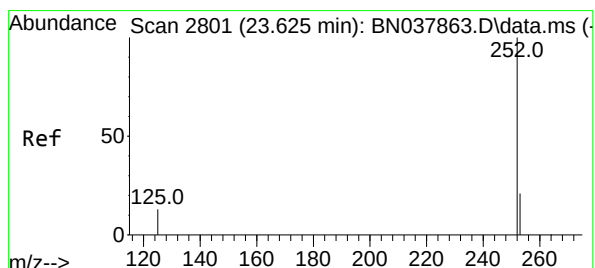
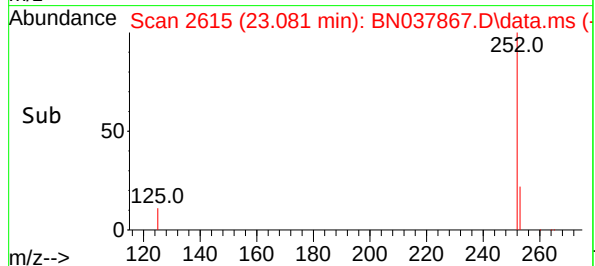
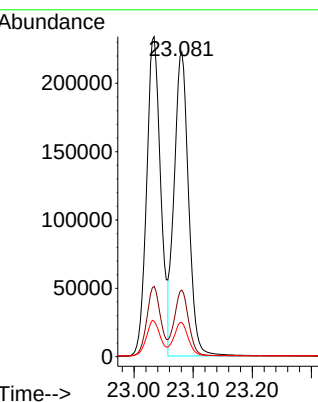
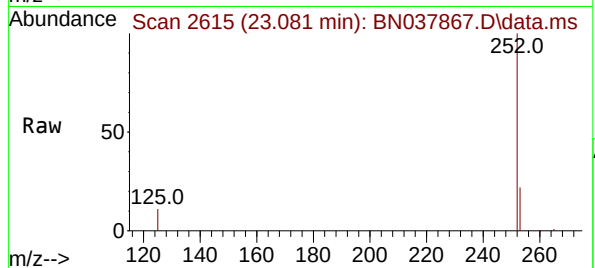
Tgt Ion:252 Resp: 376732

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 11.2 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 5.900 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

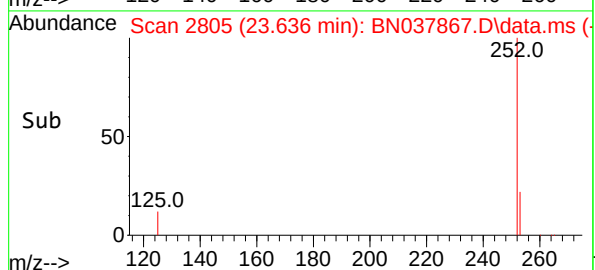
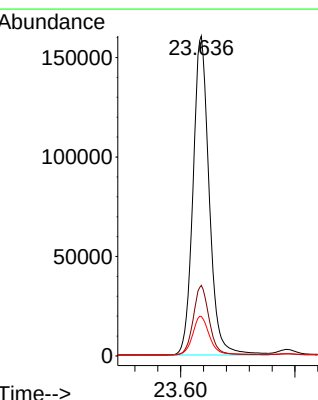
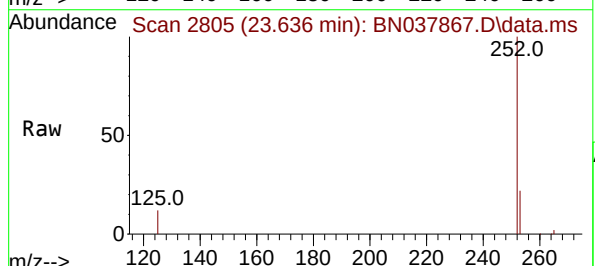
Tgt Ion:252 Resp: 314913

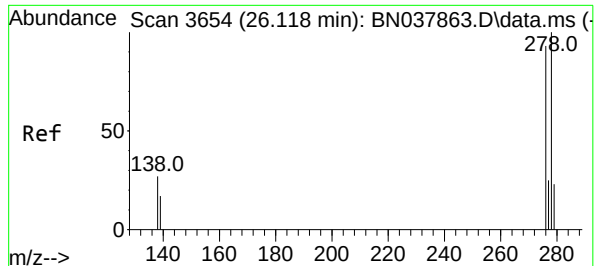
Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

125 12.3 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 5.971 ng

RT: 26.133 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

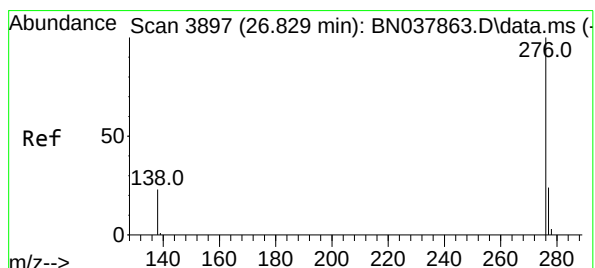
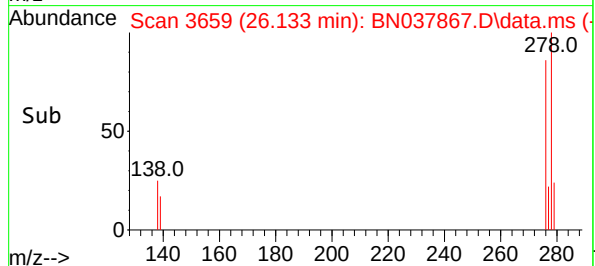
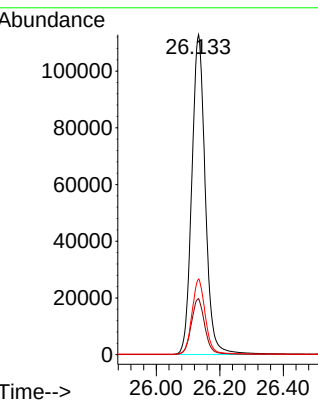
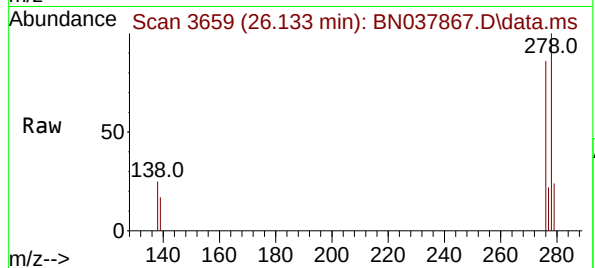
Tgt Ion:278 Resp: 333427

Ion Ratio Lower Upper

278 100

139 17.5 15.4 23.2

279 23.6 20.8 31.2



#41

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 26.840 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

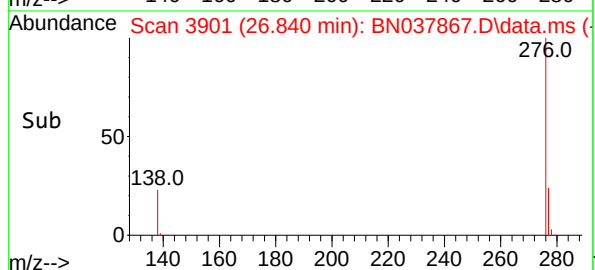
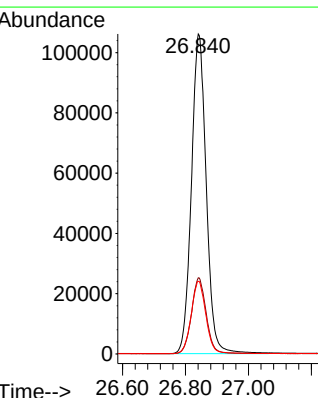
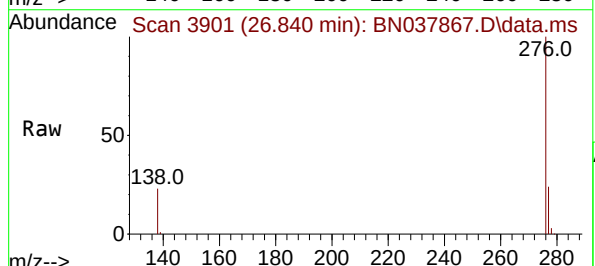
Tgt Ion:276 Resp: 346868

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 22.7 19.8 29.8



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

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

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

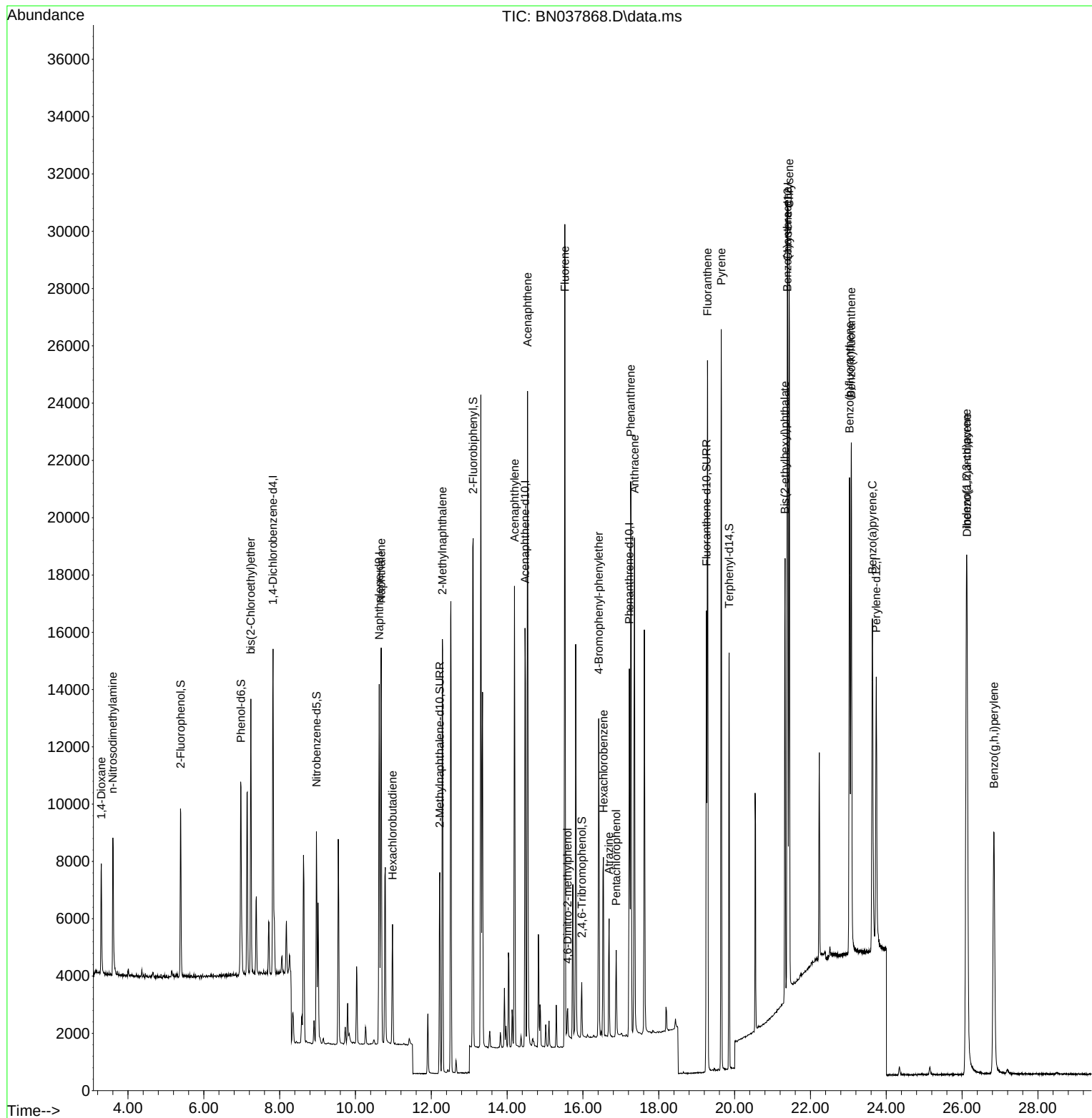
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	# 0.00
29) Chrysene-d12	21.402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

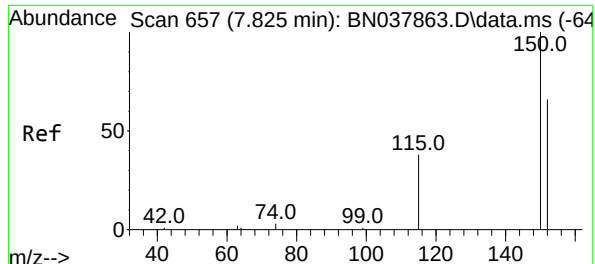
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

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

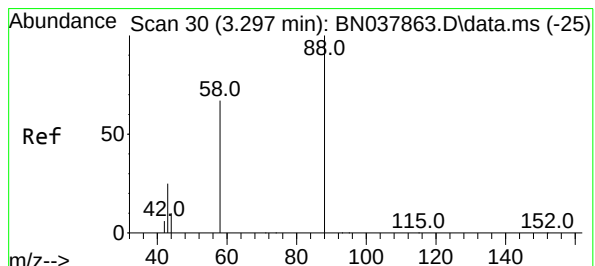
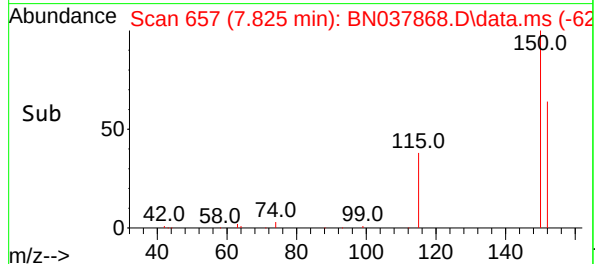
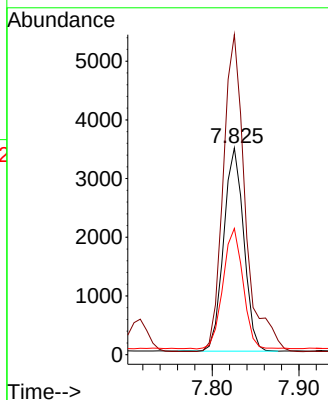
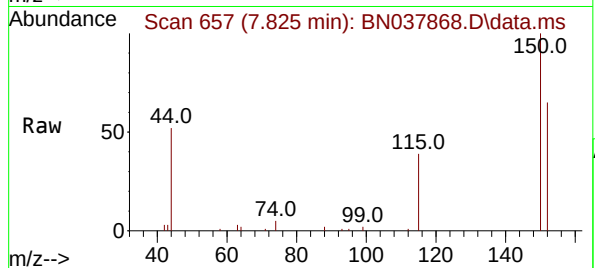




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

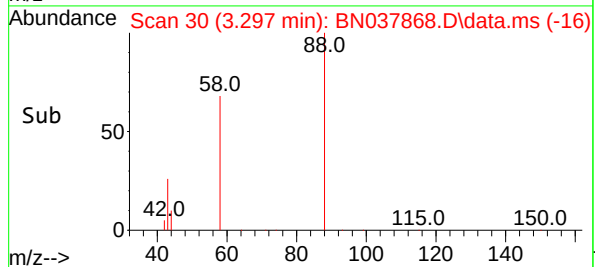
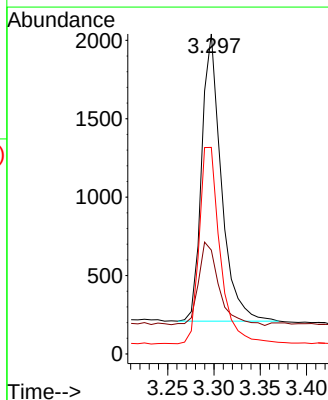
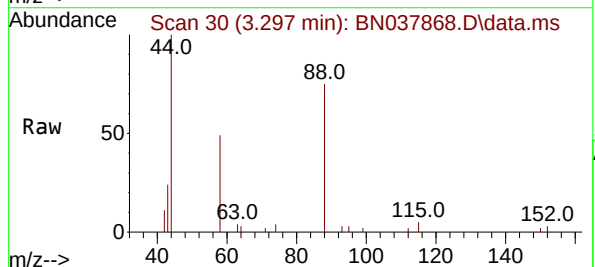
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

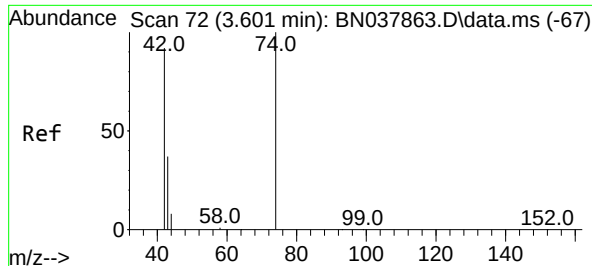
Tgt Ion:152 Resp: 5572
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 61.0 47.4 71.0



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

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

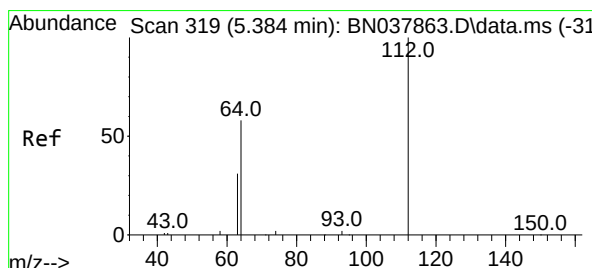
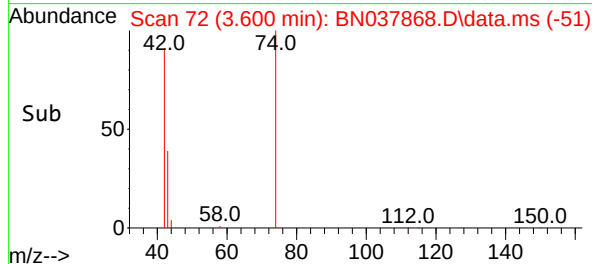
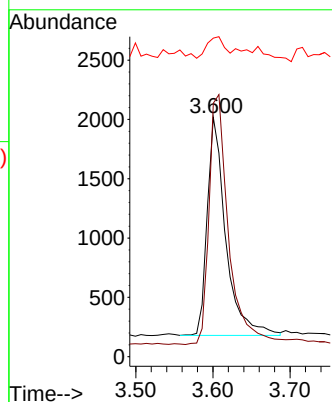
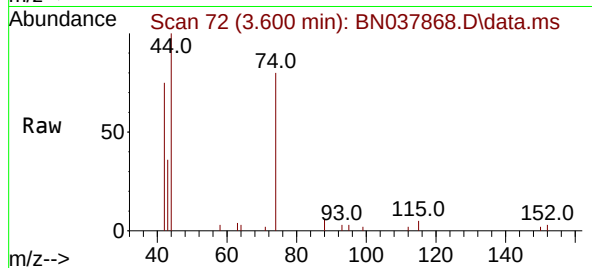




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

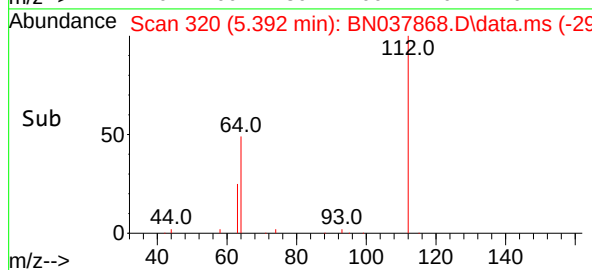
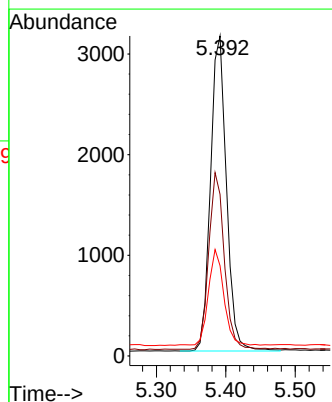
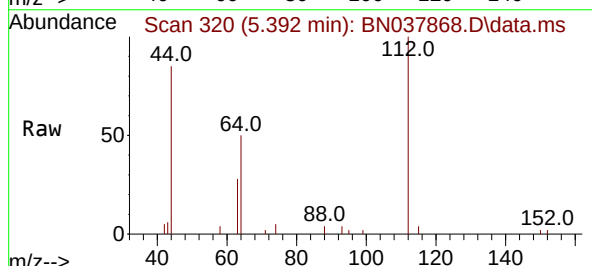
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BNA_N
ClientSampleId :
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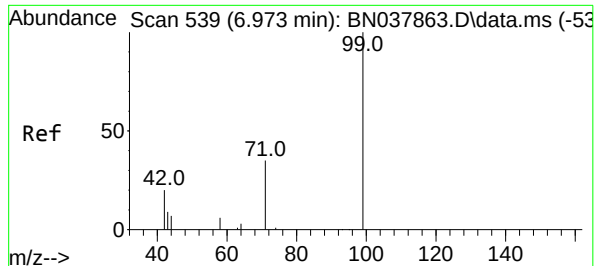
Tgt Ion: 42 Resp: 3070
Ion Ratio Lower Upper
42 100
74 121.8 93.4 140.0
44 9.2 22.2 33.4#



#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

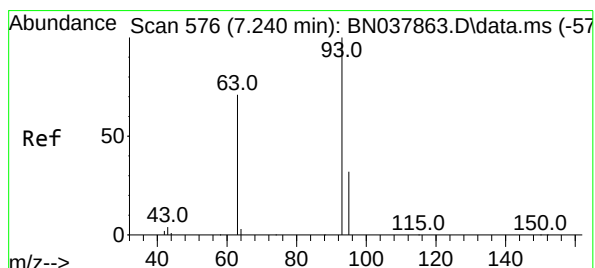
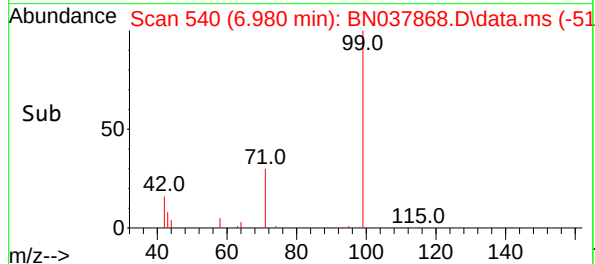
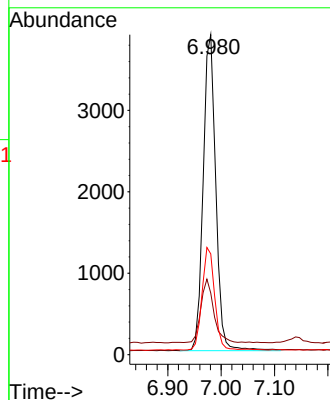
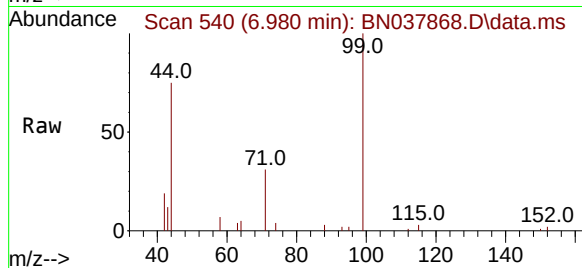




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

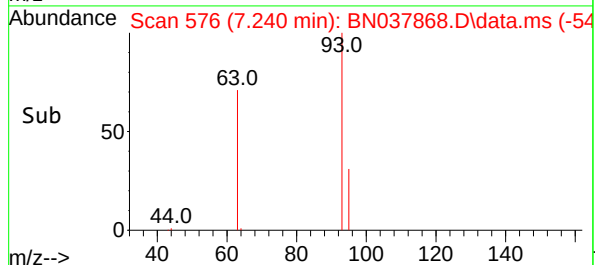
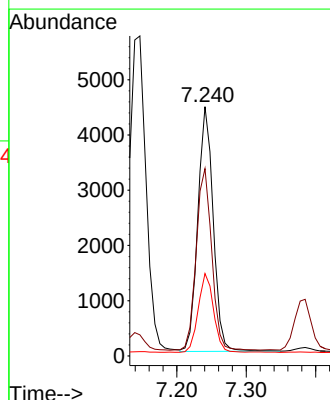
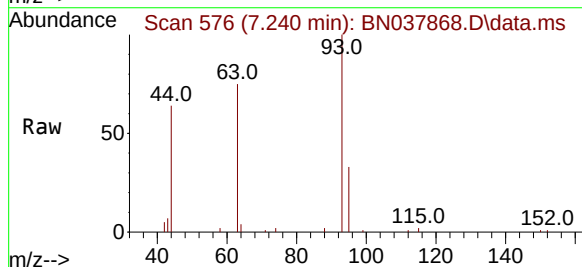
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

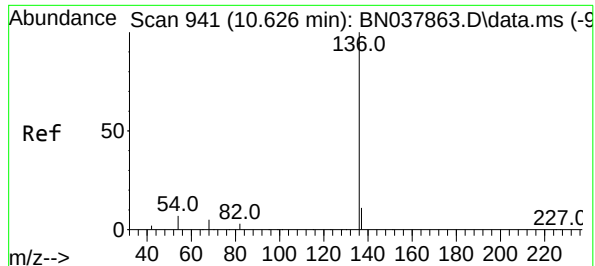
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.2	25.8
71	32.5	27.3	40.9



#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

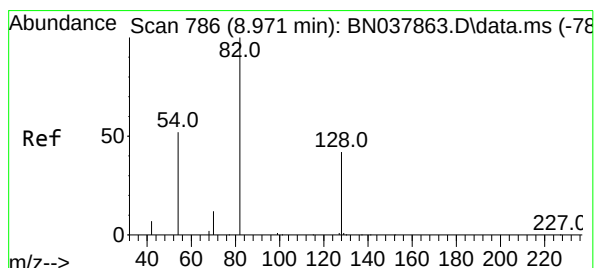
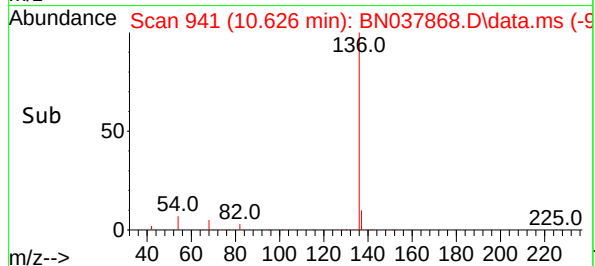
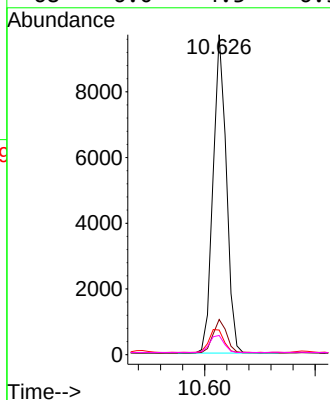
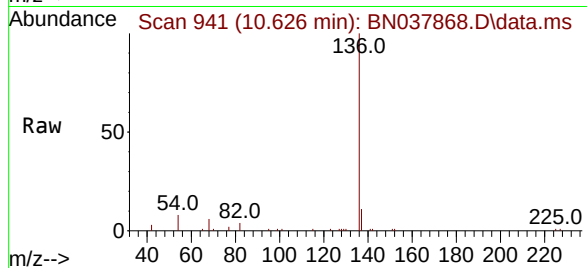




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

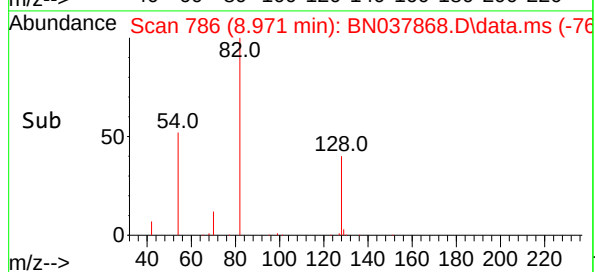
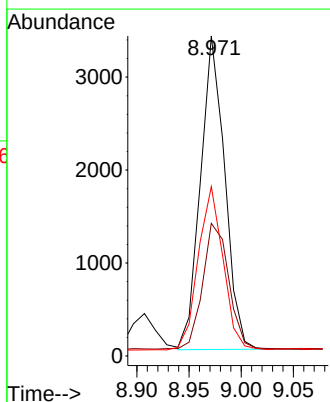
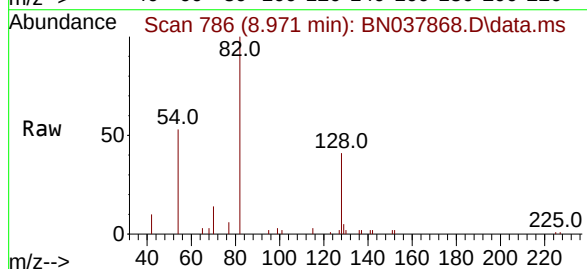
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ClientSampleId :
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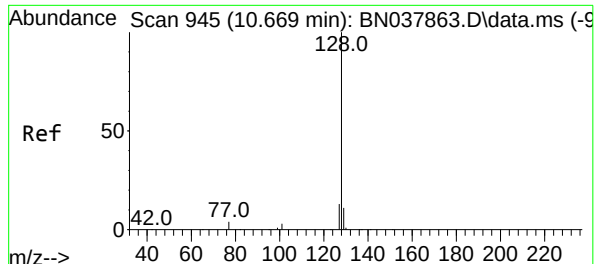
Tgt Ion:	136	Resp:	16158
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.7	5.8	8.8
68	6.0	4.3	6.5



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

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

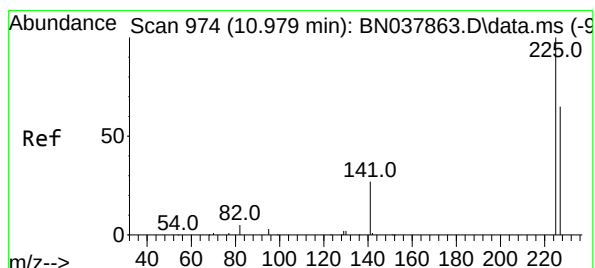
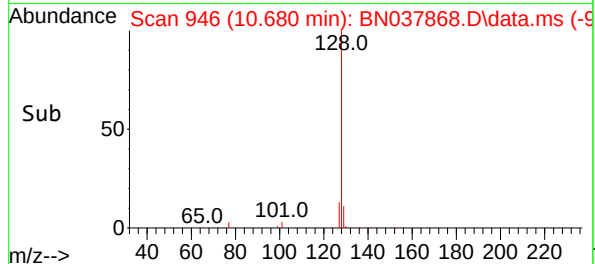
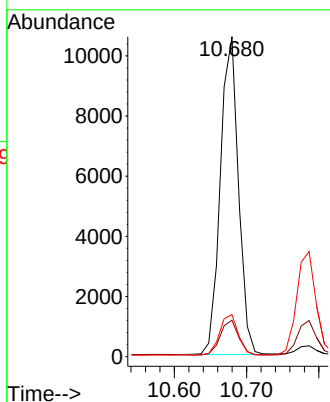
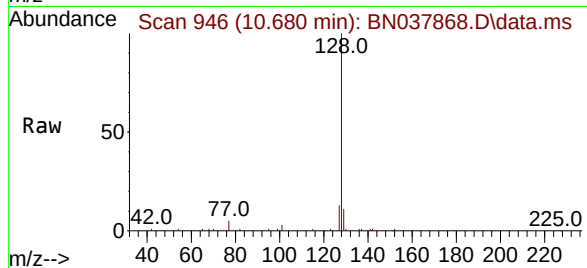




#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

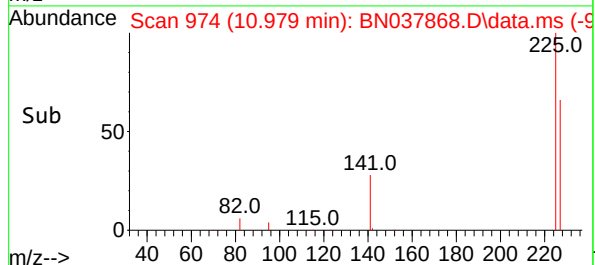
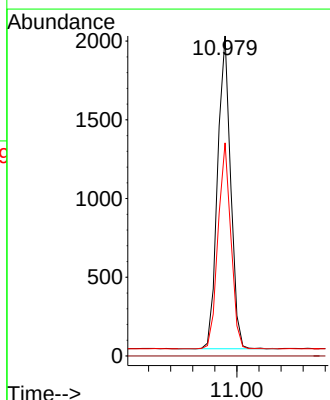
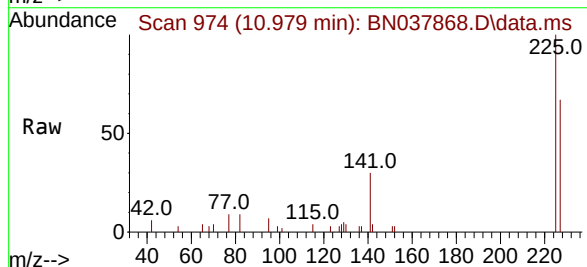
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

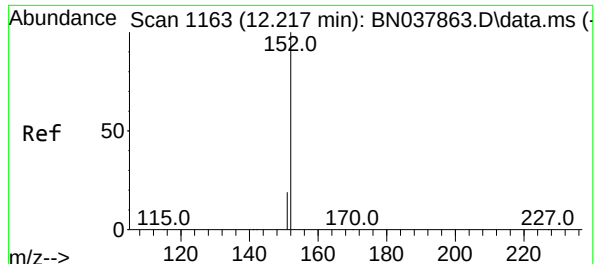
Tgt Ion:128 Resp: 18392
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 13.1 11.0 16.6



#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:225 Resp: 3253
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 51.4 77.2

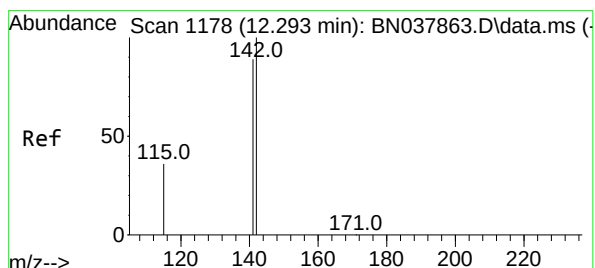
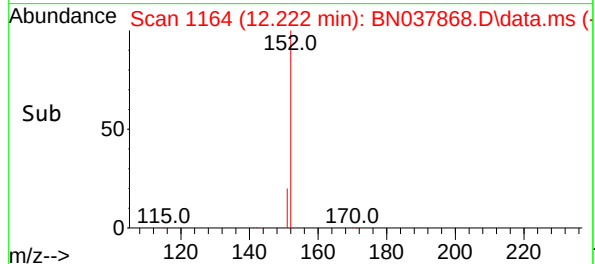
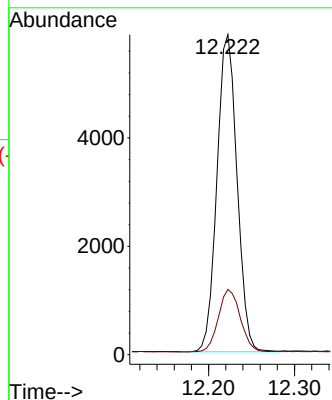
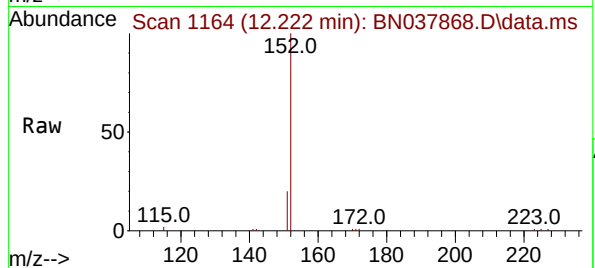




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

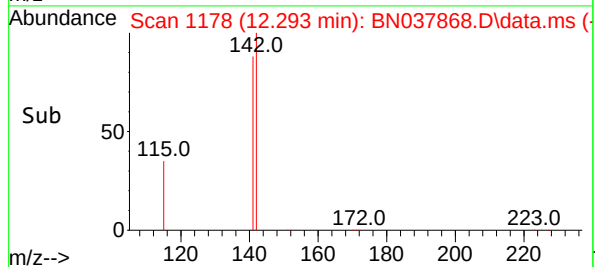
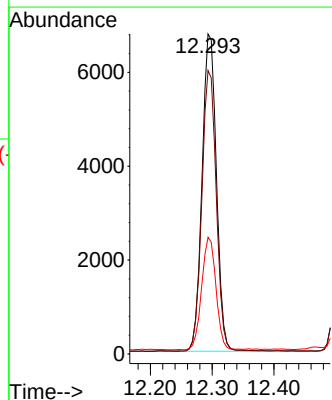
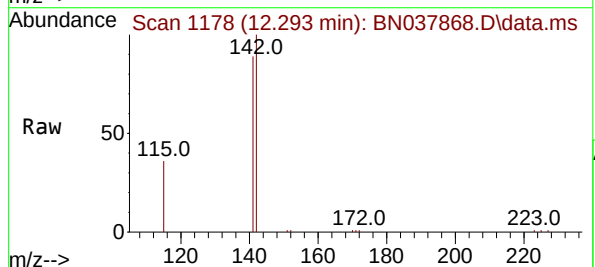
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

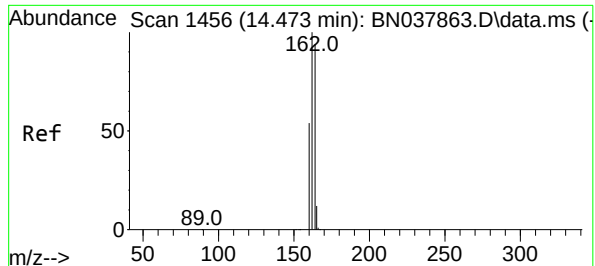
Tgt Ion:152 Resp: 9492
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



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

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

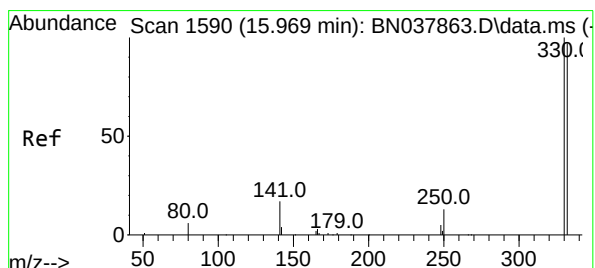
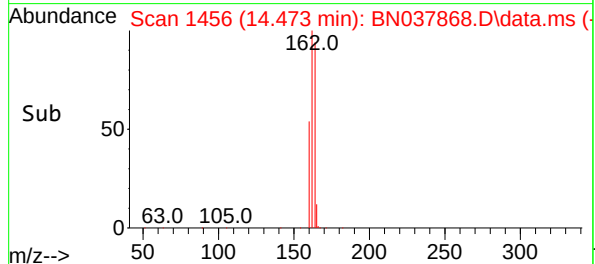
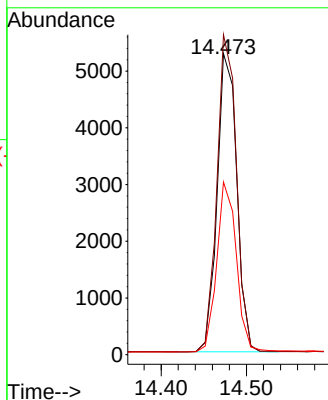
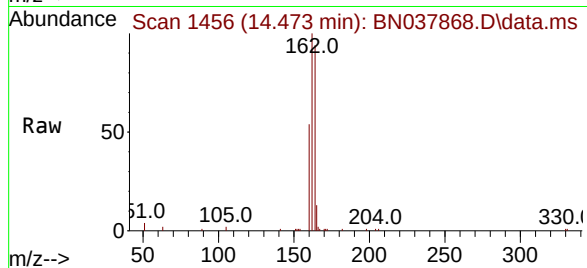




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

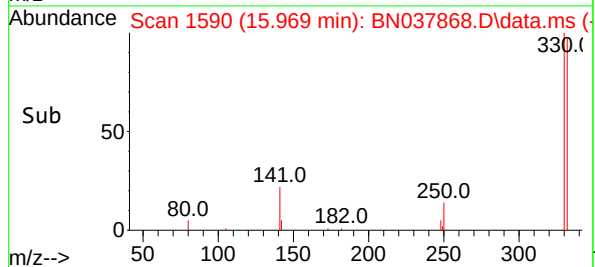
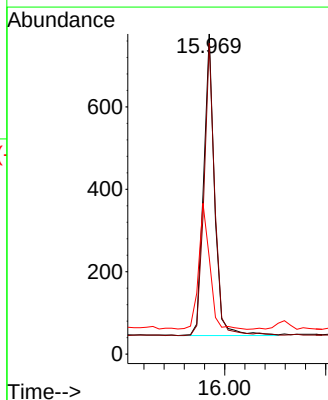
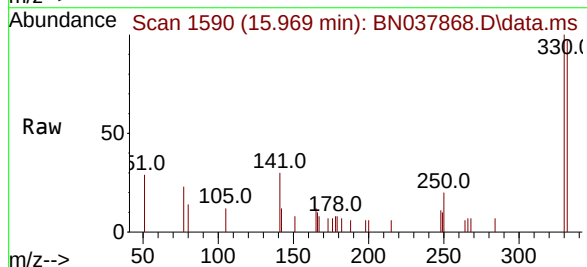
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

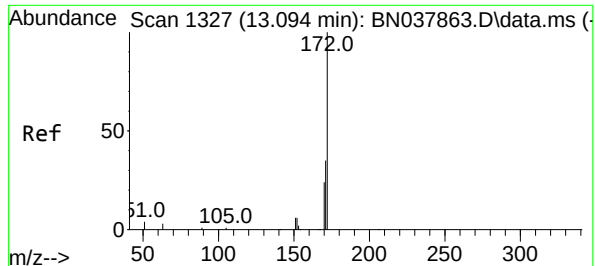
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.8	127.2
160	57.3	46.1	69.1



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

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





#15

2-Fluorobiphenyl

Concen: 0.485 ng

RT: 13.105 min Scan# 1328

Delta R.T. 0.011 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

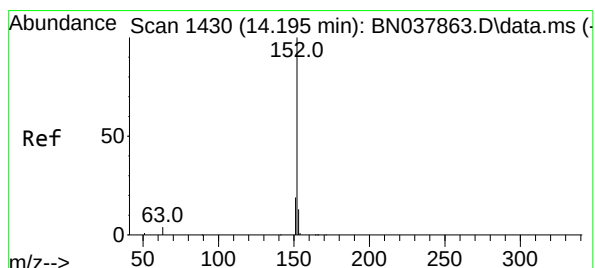
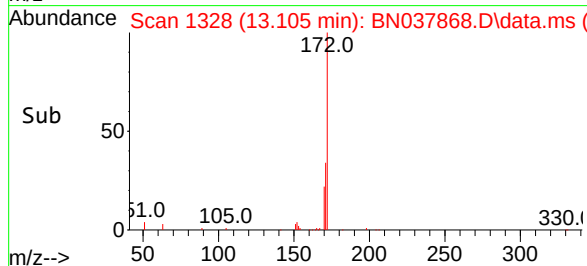
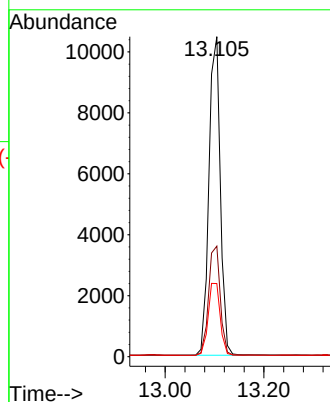
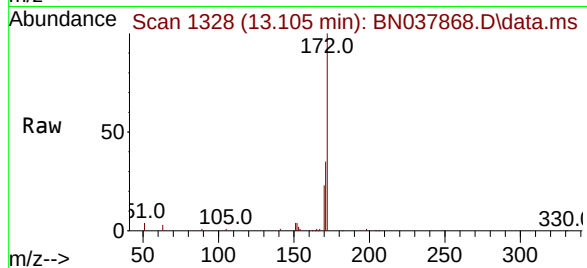
Tgt Ion:172 Resp: 16723

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

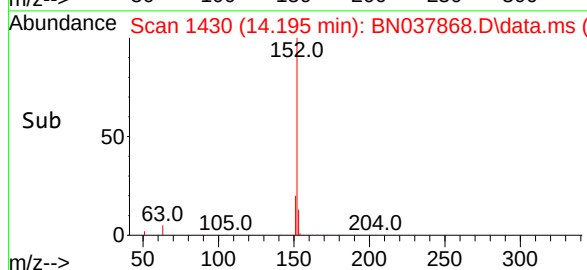
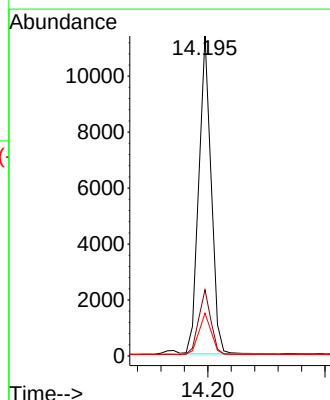
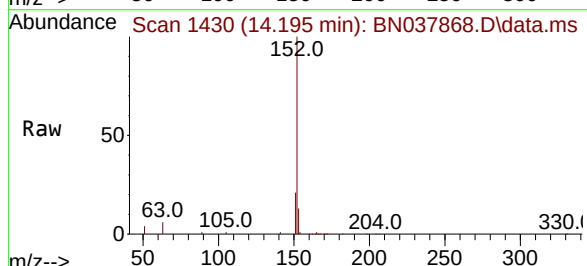
Tgt Ion:152 Resp: 16721

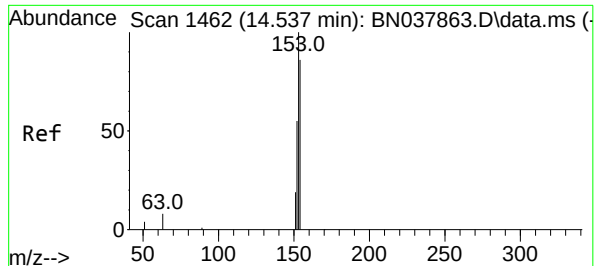
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

153 13.0 10.5 15.7

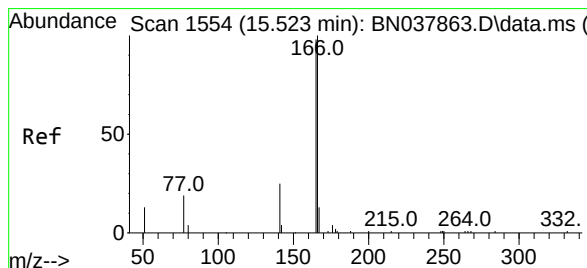
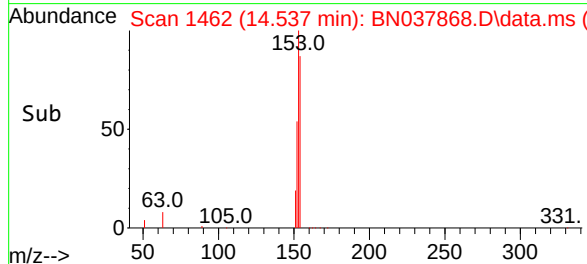
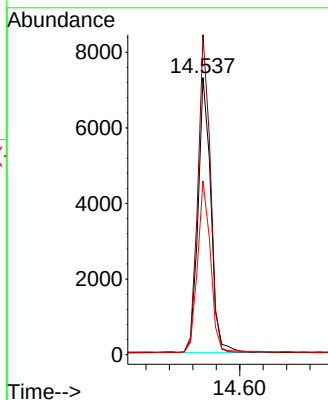
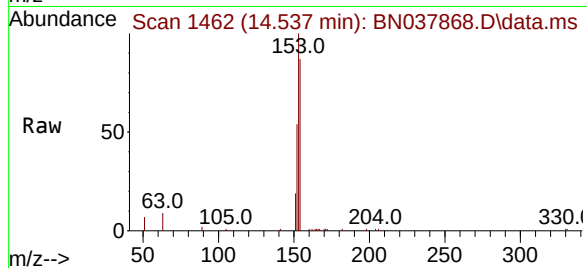




#17
Acenaphthene
Concen: 0.406 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

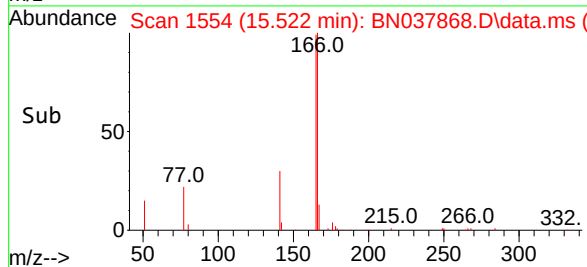
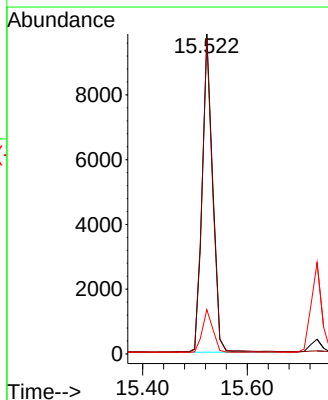
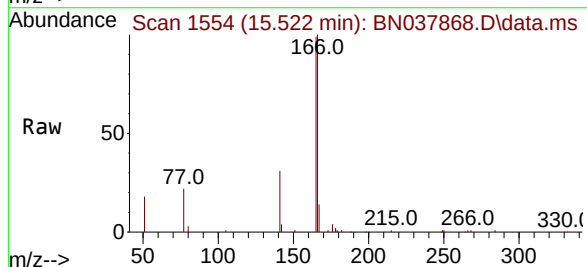
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

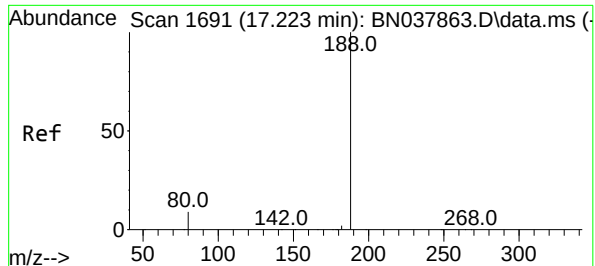
Tgt Ion	154	Resp	11059
Ion Ratio	Lower	Upper	
154	100		
153	112.6	90.5	135.7
152	63.5	51.8	77.8



#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

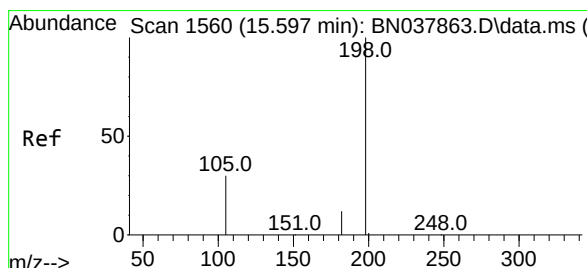
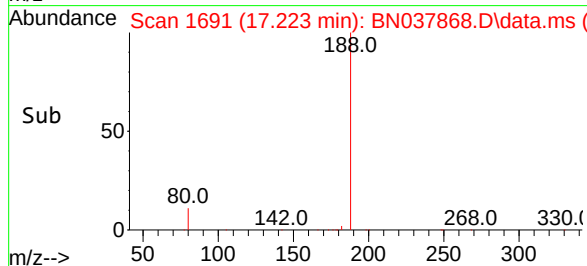
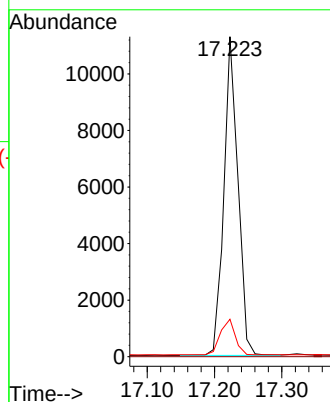
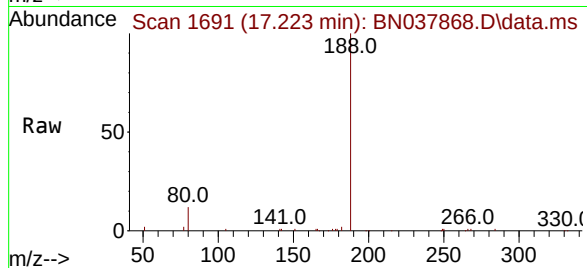
Tgt Ion:188 Resp: 16279

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

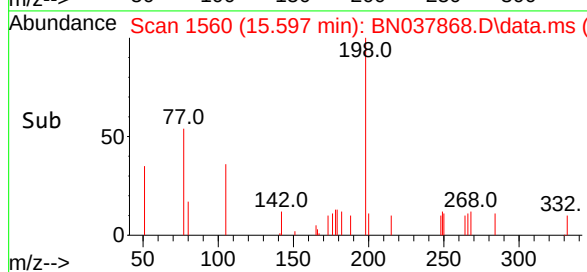
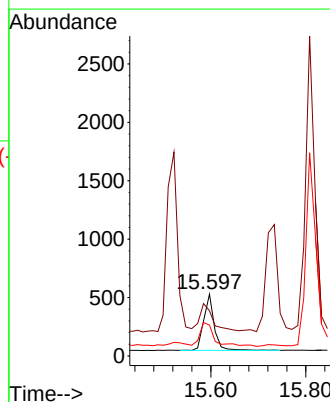
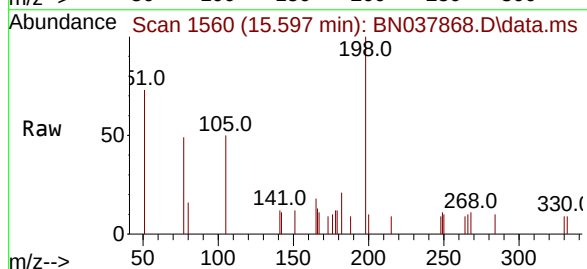
Tgt Ion:198 Resp: 737

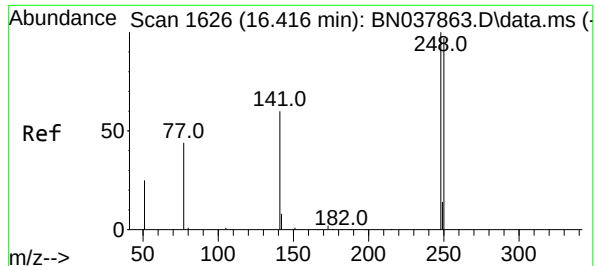
Ion Ratio Lower Upper

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

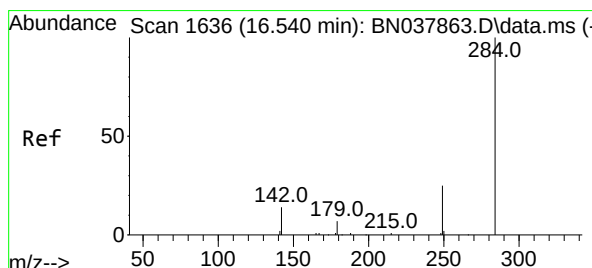
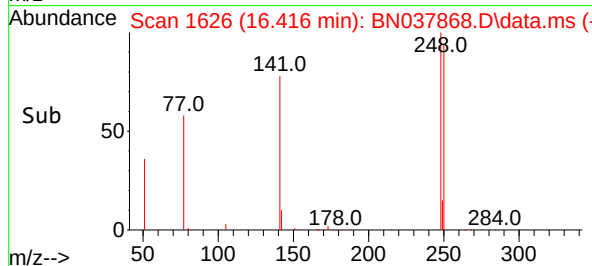
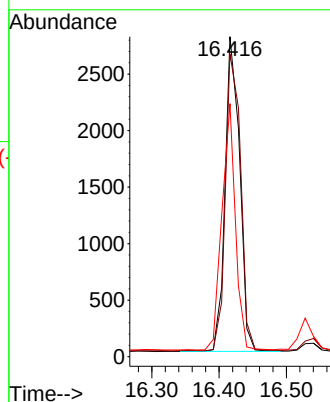
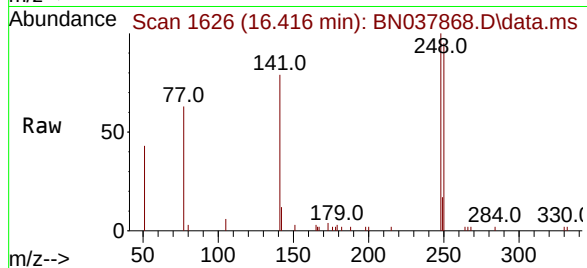
Tgt Ion:248 Resp: 4157

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

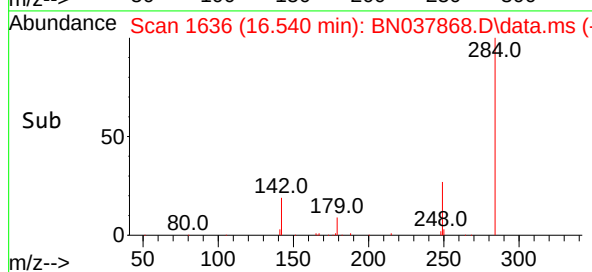
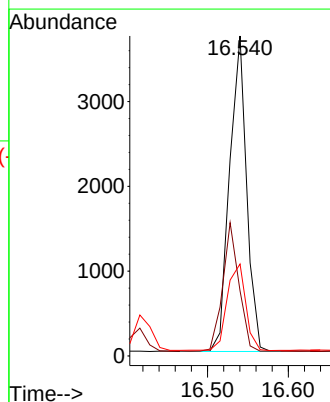
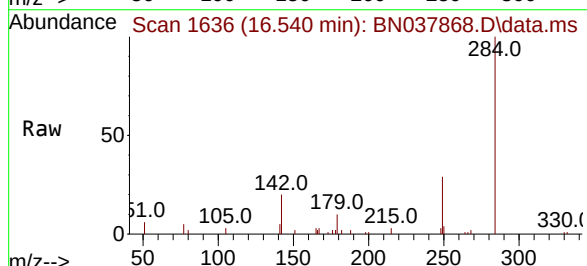
Tgt Ion:284 Resp: 5455

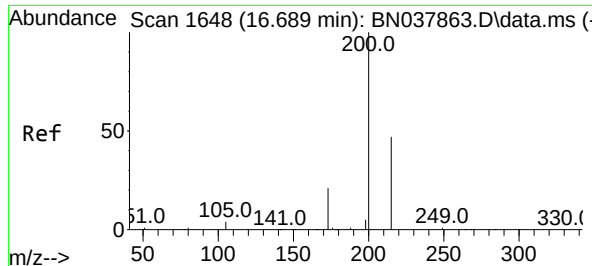
Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.0 23.9 35.9

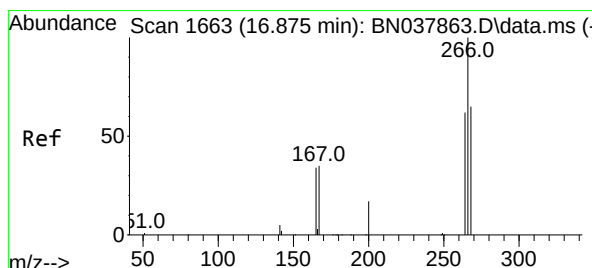
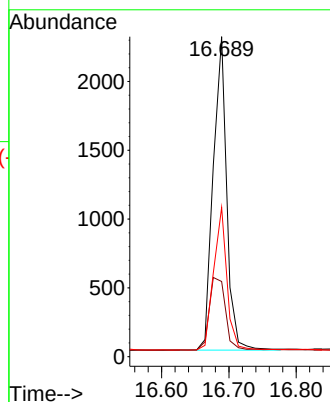
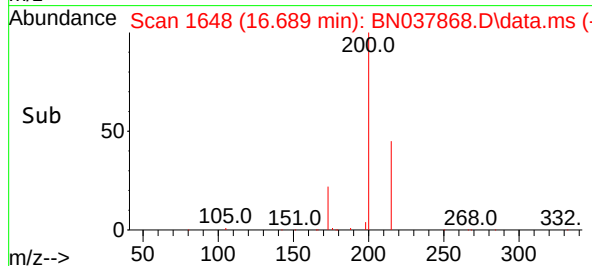
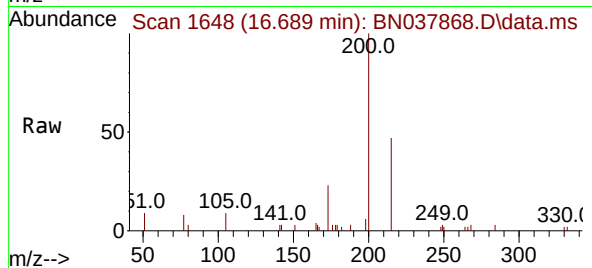




#23
Atrazine
Concen: 0.396 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

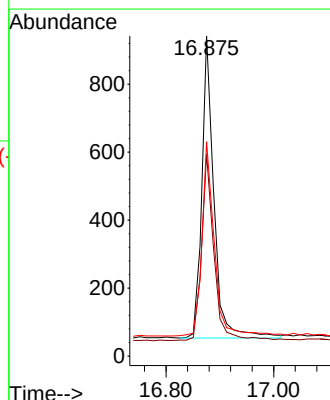
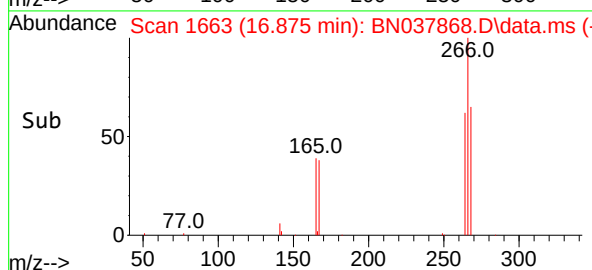
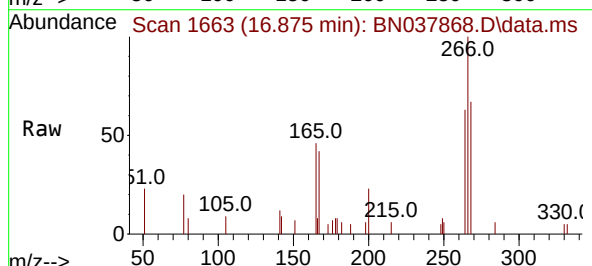
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

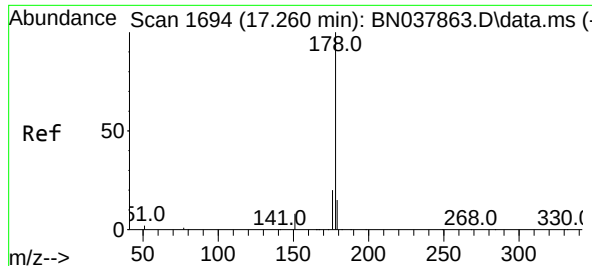
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.5	18.3	27.5
215	46.6	38.6	58.0



#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	Ratio	Lower	Upper
266	100		
264	63.8	50.9	76.3
268	66.0	54.3	81.5





#25

Phenanthrene

Concen: 0.411 ng

RT: 17.260 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

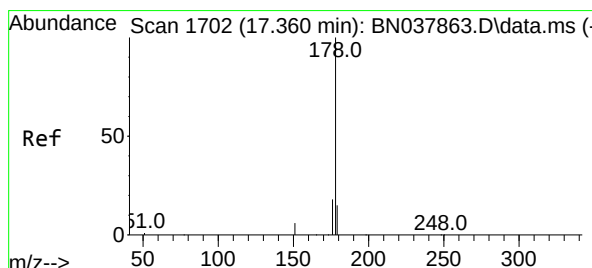
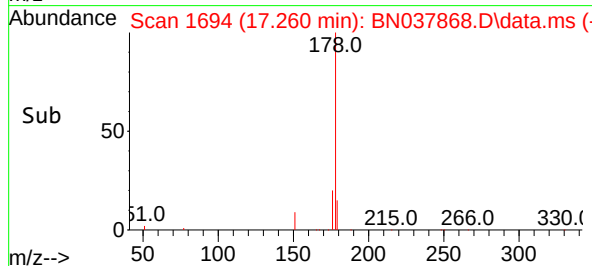
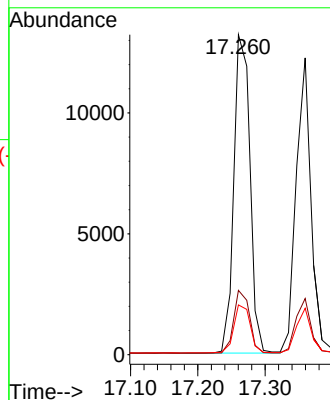
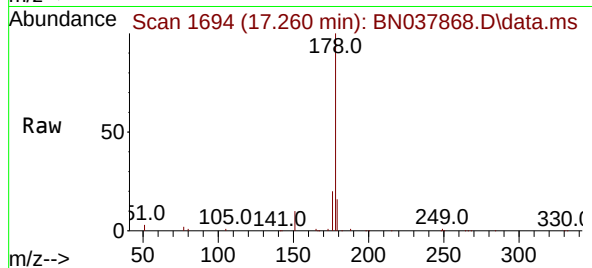
Tgt Ion:178 Resp: 22020

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.408 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

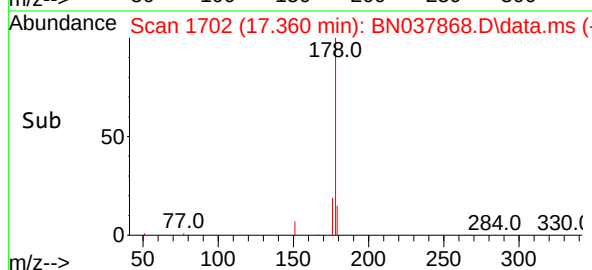
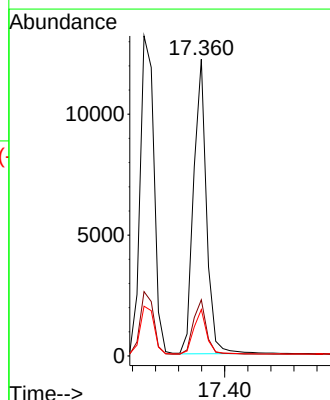
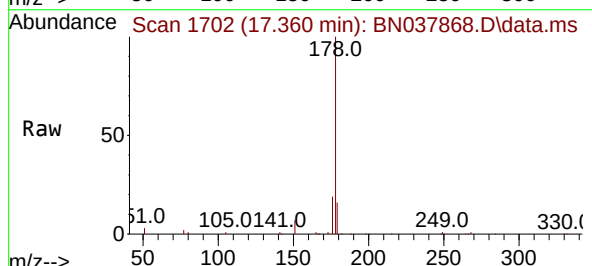
Tgt Ion:178 Resp: 18967

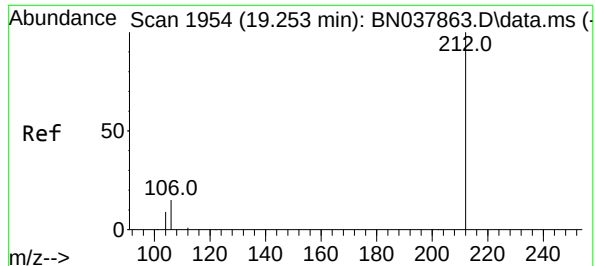
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

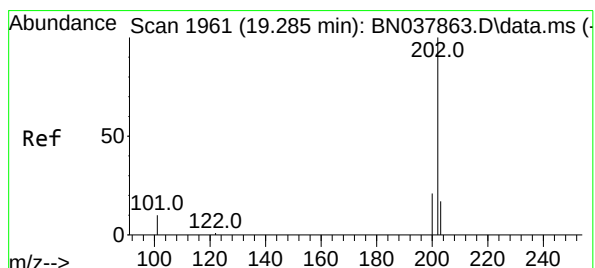
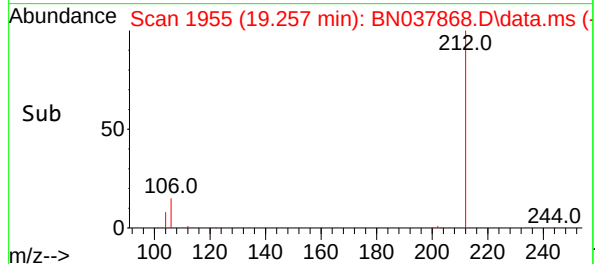
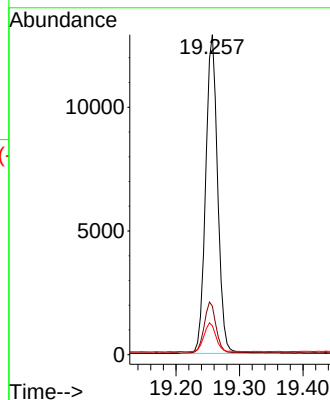
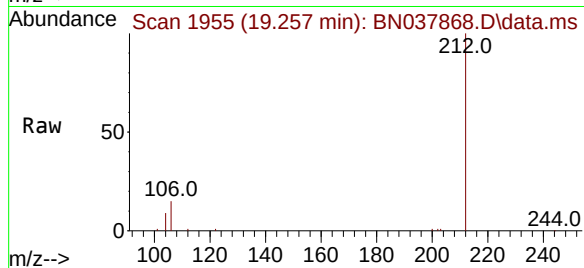
Tgt Ion:212 Resp: 16910

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

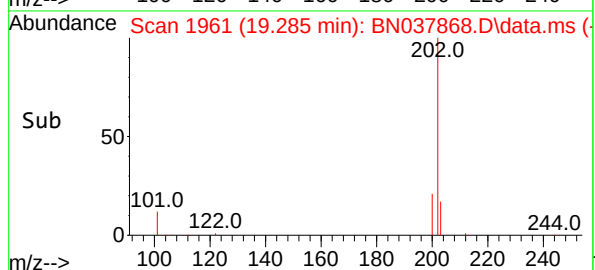
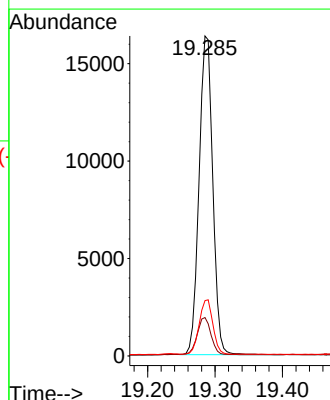
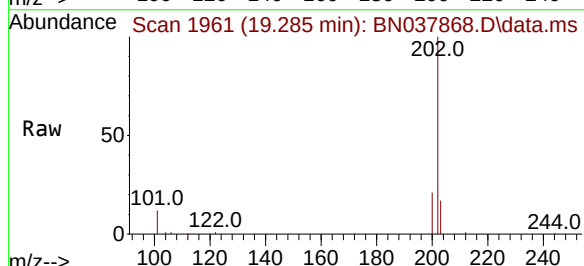
Tgt Ion:202 Resp: 23044

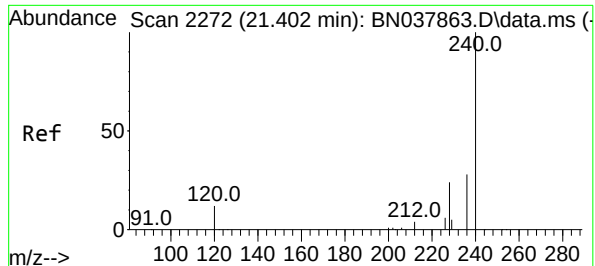
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

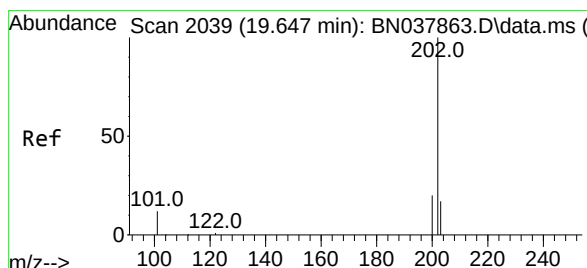
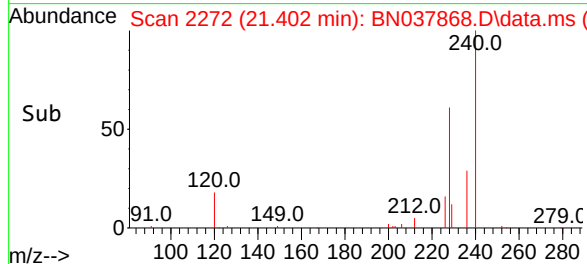
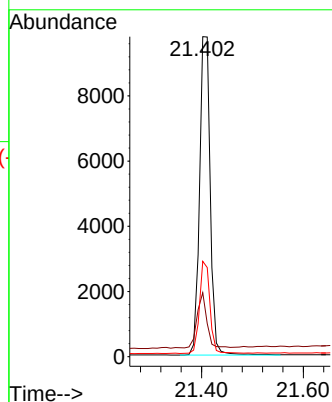
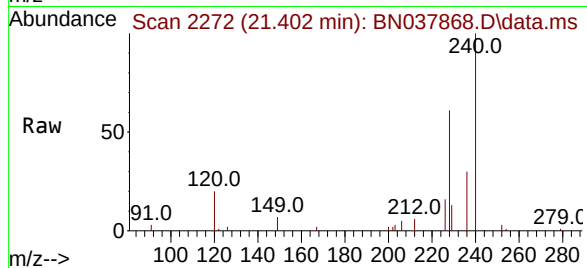
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 20.0 11.4 17.2#

236 29.8 23.0 34.6



#30

Pyrene

Concen: 0.402 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

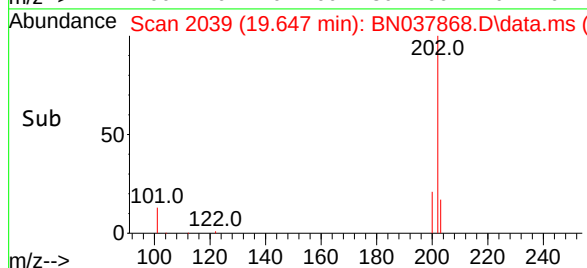
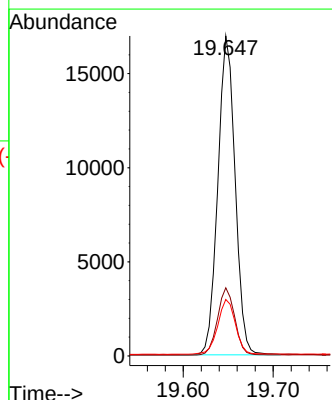
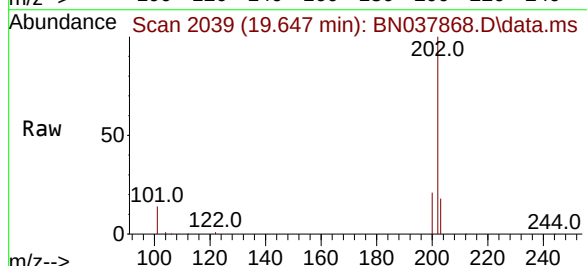
Tgt Ion:202 Resp: 22563

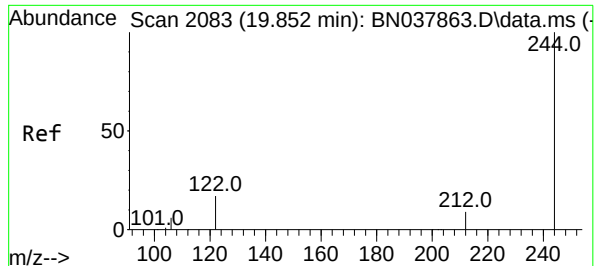
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

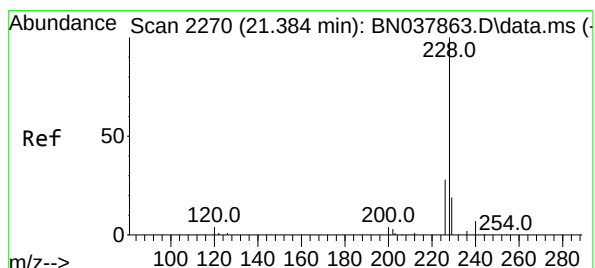
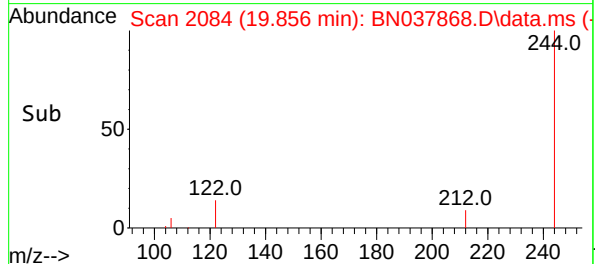
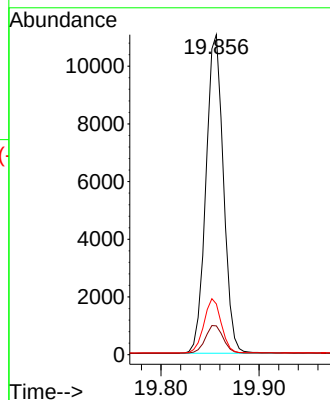
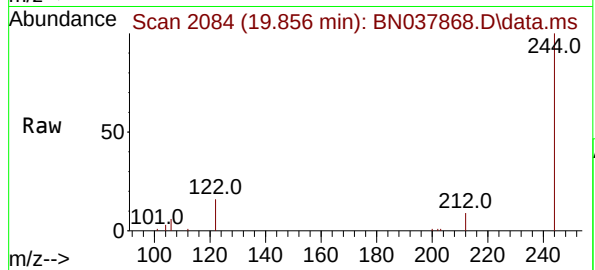




#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

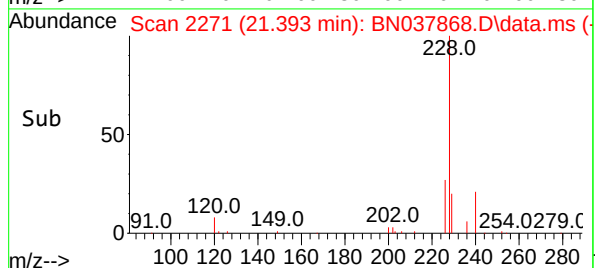
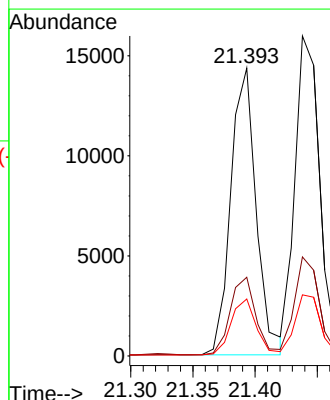
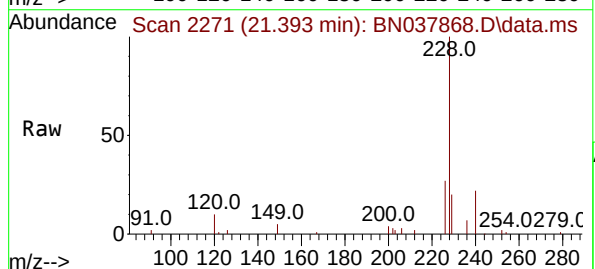
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

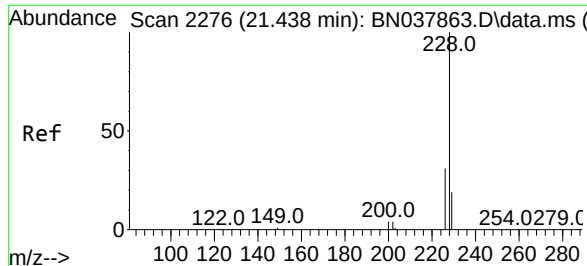
Tgt Ion:244 Resp: 13646
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 15.9 13.9 20.9



#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:228 Resp: 20398
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

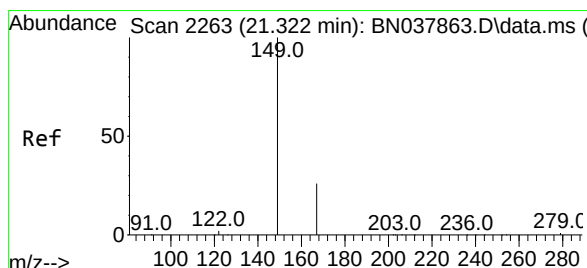
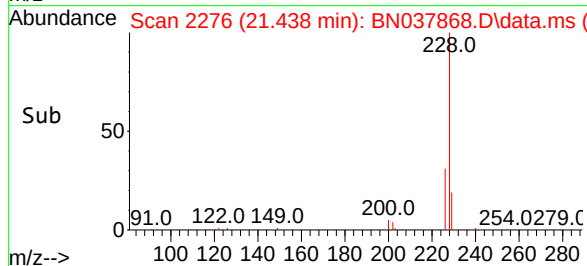
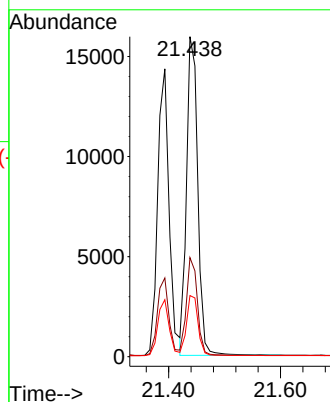
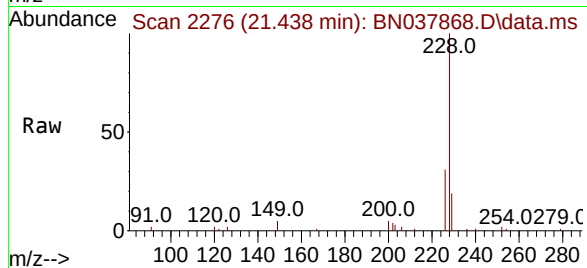
Tgt Ion:228 Resp: 22204

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

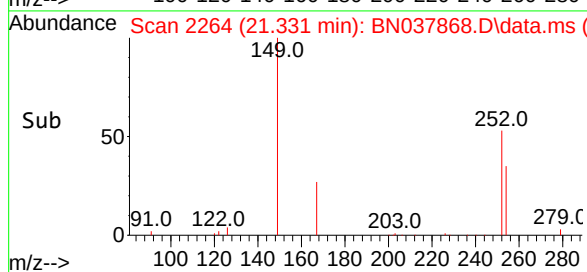
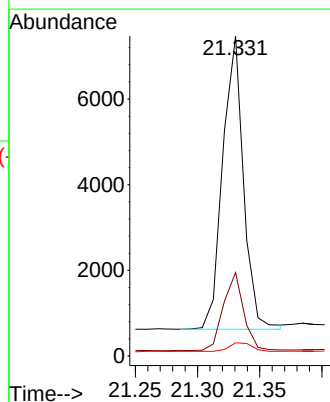
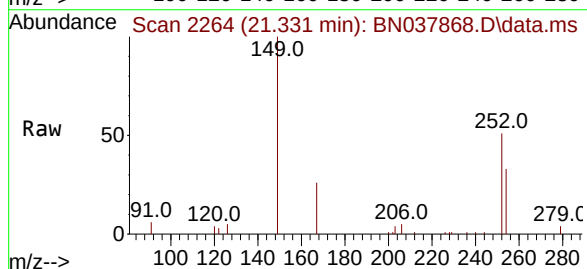
Tgt Ion:149 Resp: 7939

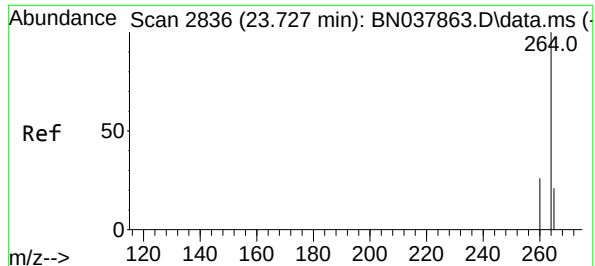
Ion Ratio Lower Upper

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

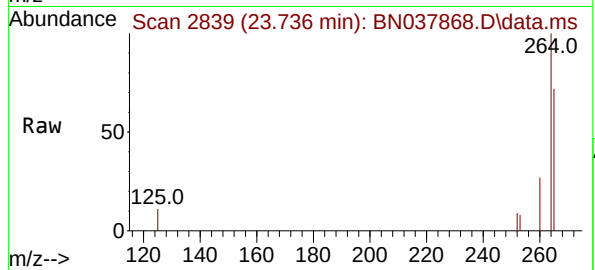
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



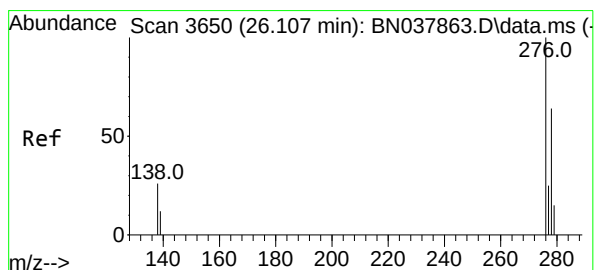
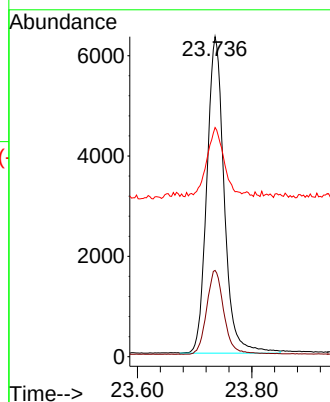
Tgt Ion:264 Resp: 13265

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

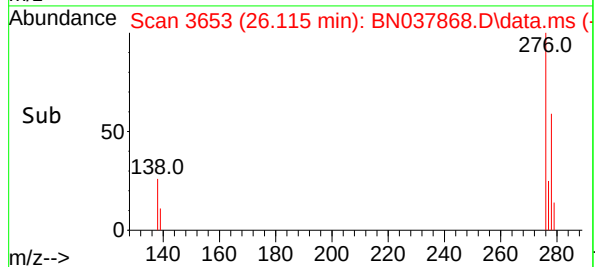
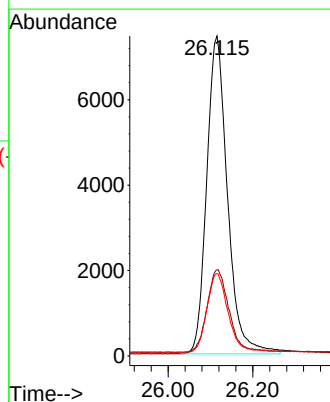
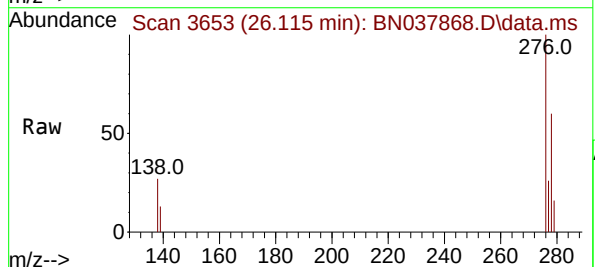
Tgt Ion:276 Resp: 25340

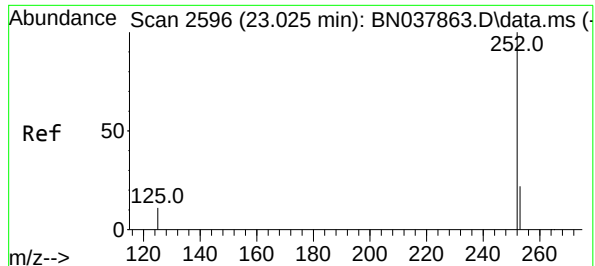
Ion Ratio Lower Upper

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# 2

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

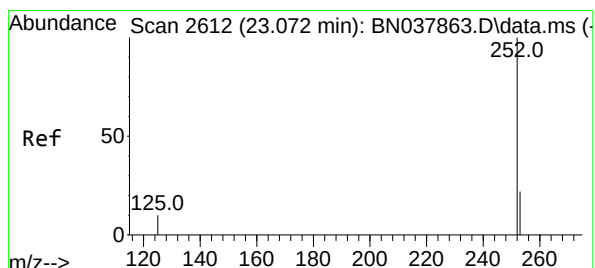
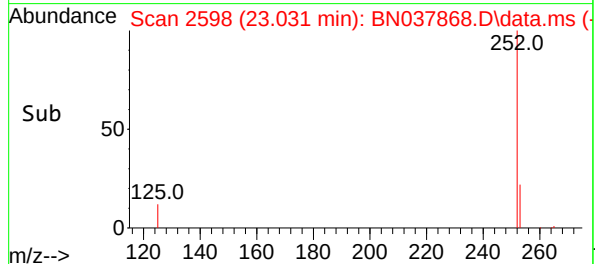
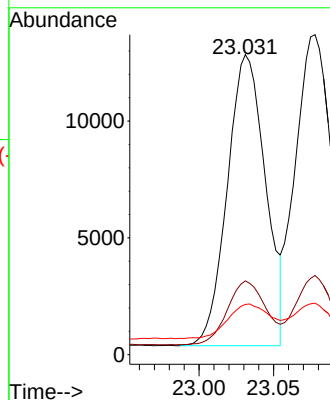
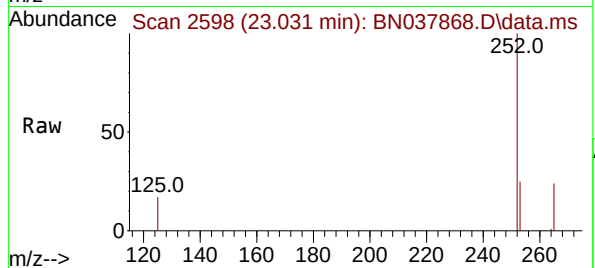
Tgt Ion:252 Resp: 22193

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

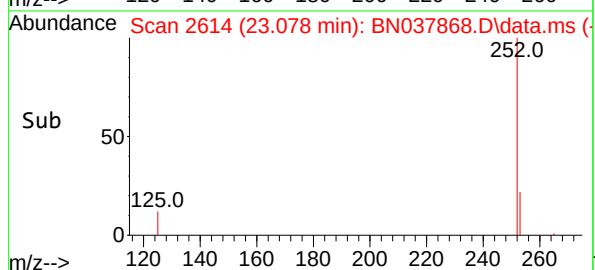
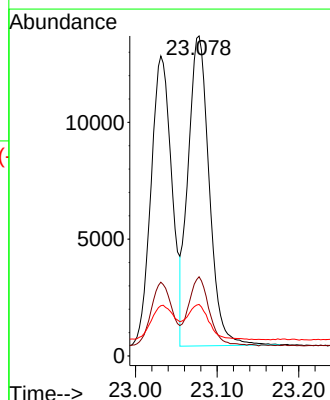
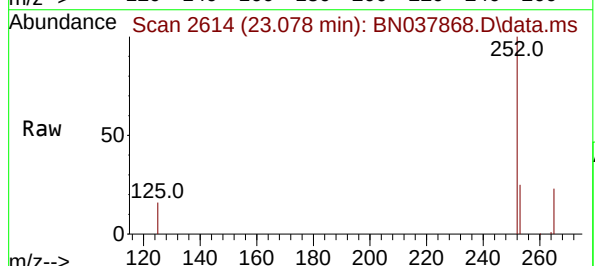
Tgt Ion:252 Resp: 23886

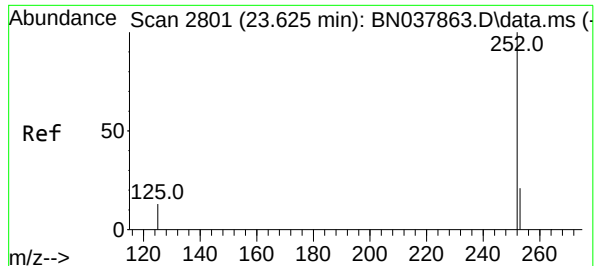
Ion Ratio Lower Upper

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

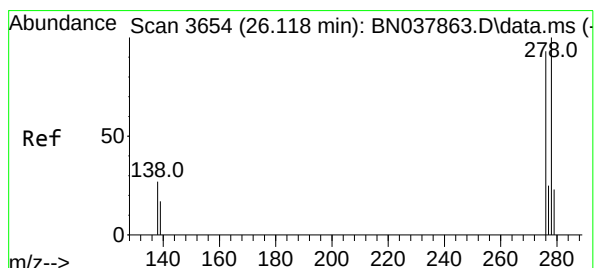
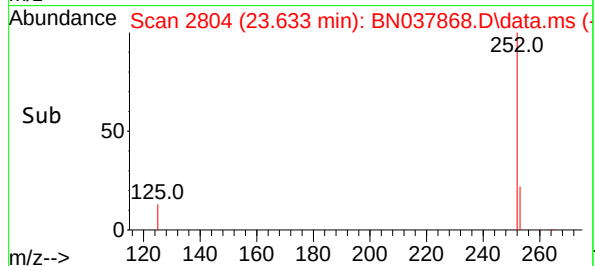
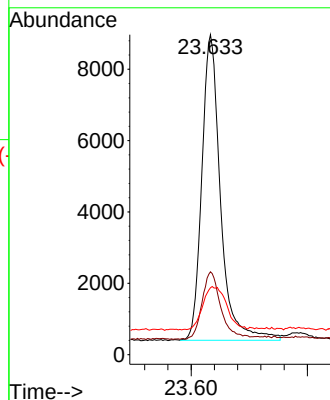
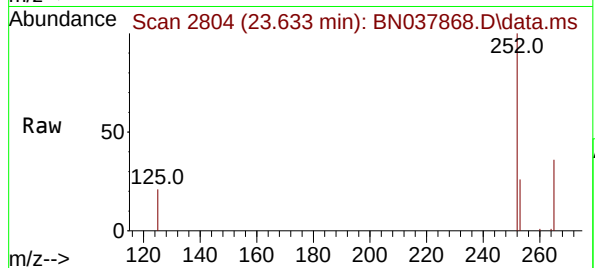
Tgt Ion:252 Resp: 19091

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

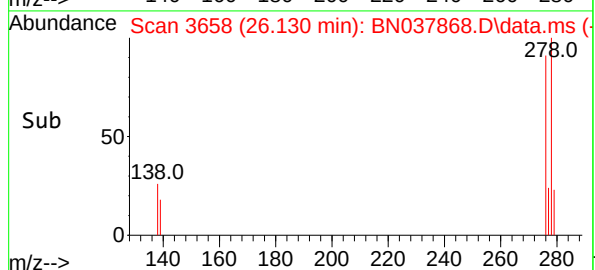
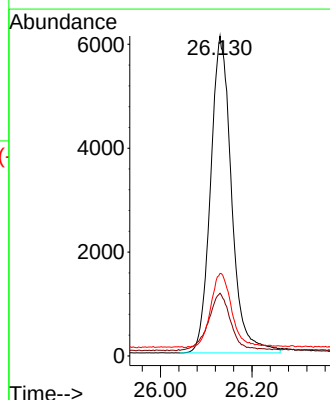
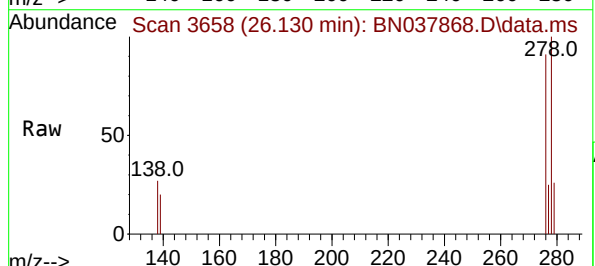
Tgt Ion:278 Resp: 19441

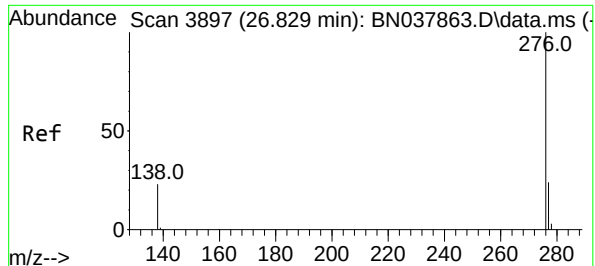
Ion Ratio Lower Upper

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

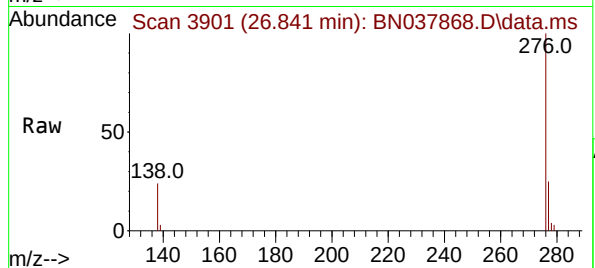
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



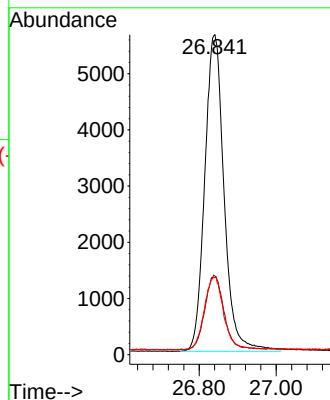
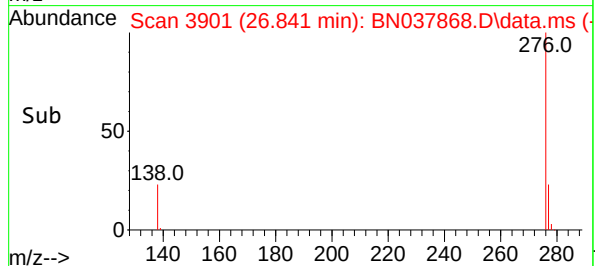
Tgt Ion:276 Resp: 19570

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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 02:46
 Lab File ID: BN037759.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.511		-3.6	20.0
Fluoranthene-d10	1.004	0.949		-5.5	20.0
2-Fluorophenol	0.918	0.939		2.3	20.0
Phenol-d6	1.191	1.179		-1.0	20.0
Nitrobenzene-d5	0.293	0.286		-2.4	20.0
2-Fluorobiphenyl	1.673	1.646		-1.6	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.735		-9.5	20.0
1,4-Dioxane	0.417	0.432		3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037759.D
 Acq On : 18 Sep 2025 02:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

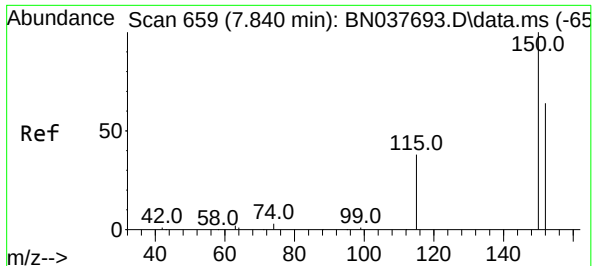
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	8012	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	21664	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	10192	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	18613	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	16797	0.400	ng	0.00
35) Perylene-d12	23.741	264	18043	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	7521	0.409	ng	0.00
5) Phenol-d6	6.988	99	9450	0.396	ng	0.00
8) Nitrobenzene-d5	8.982	82	6195	0.391	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	11065	0.386	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	1222	0.460	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	16772	0.393	ng	0.00
27) Fluoranthene-d10	19.267	212	17669	0.378	ng	0.00
31) Terphenyl-d14	19.861	244	12341	0.362	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	3460	0.415	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.608	42	4100	0.376	ng	91
6) bis(2-Chloroethyl)ether	7.248	93	8459	0.397	ng	99
9) Naphthalene	10.690	128	23012	0.389	ng	99
10) Hexachlorobutadiene	10.989	225	4127	0.385	ng	# 99
12) 2-Methylnaphthalene	12.309	142	14242	0.389	ng	98
16) Acenaphthylene	14.206	152	17762	0.380	ng	99
17) Acenaphthene	14.548	154	12273	0.388	ng	99
18) Fluorene	15.535	166	14482	0.378	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	576	0.334	ng	95
21) 4-Bromophenyl-phenylether	16.429	248	4671	0.385	ng	# 84
22) Hexachlorobenzene	16.540	284	5435	0.389	ng	99
23) Atrazine	16.689	200	2899	0.375	ng	# 92
24) Pentachlorophenol	16.888	266	1908	0.471	ng	98
25) Phenanthrene	17.273	178	22675	0.387	ng	100
26) Anthracene	17.360	178	19975	0.385	ng	99
28) Fluoranthene	19.294	202	24904	0.387	ng	99
30) Pyrene	19.657	202	24982	0.380	ng	100
32) Benzo(a)anthracene	21.393	228	22983	0.392	ng	100
33) Chrysene	21.447	228	24936	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.340	149	7755	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	32683	0.431	ng	99
37) Benzo(b)fluoranthene	23.037	252	27058	0.381	ng	99
38) Benzo(k)fluoranthene	23.084	252	28281	0.390	ng	99
39) Benzo(a)pyrene	23.639	252	21959	0.386	ng	98
40) Dibenzo(a,h)anthracene	26.142	278	26135	0.432	ng	97
41) Benzo(g,h,i)perylene	26.852	276	27338	0.403	ng	97

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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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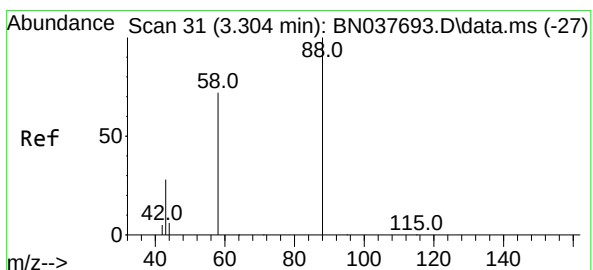
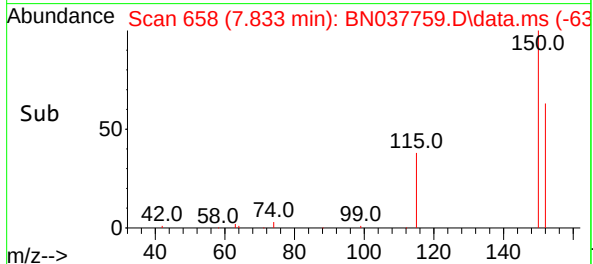
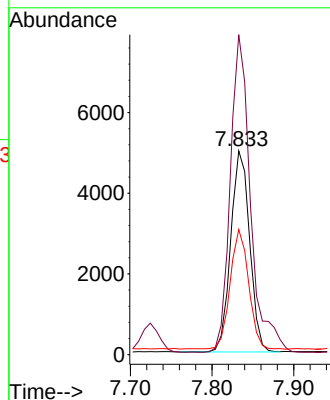
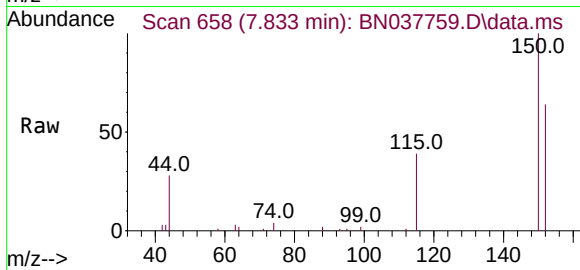




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

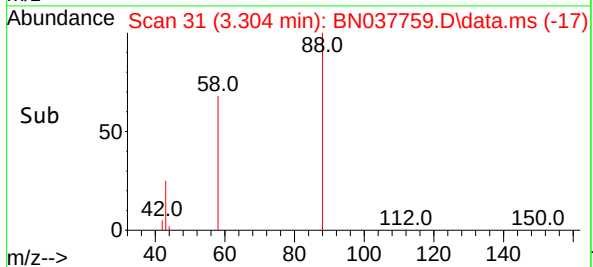
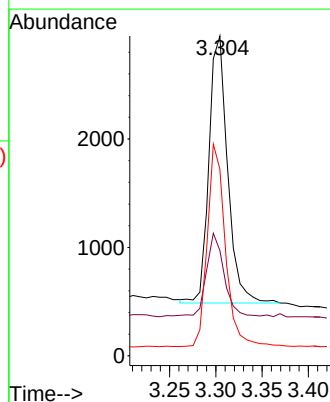
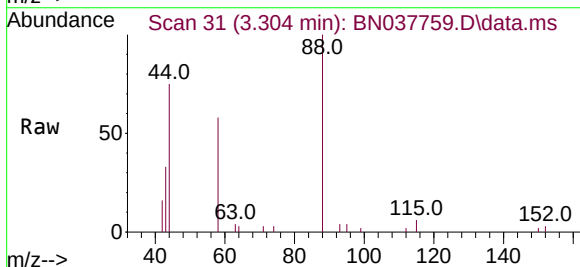
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BNA_N
ClientSampleId :
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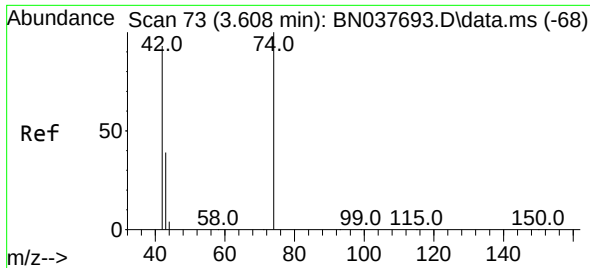
Tgt Ion:152 Resp: 8012
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 61.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 88 Resp: 3460
Ion Ratio Lower Upper
88 100
43 29.8 26.8 40.2
58 73.4 61.9 92.9

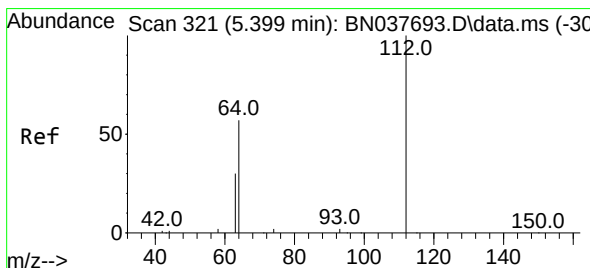
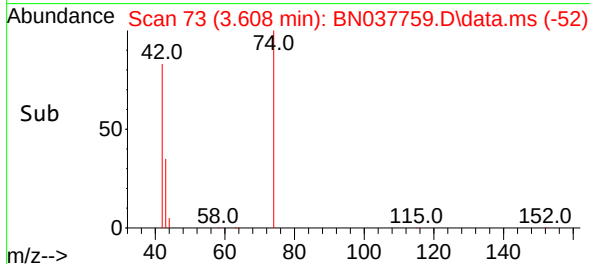
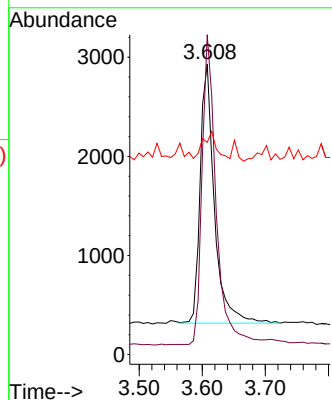
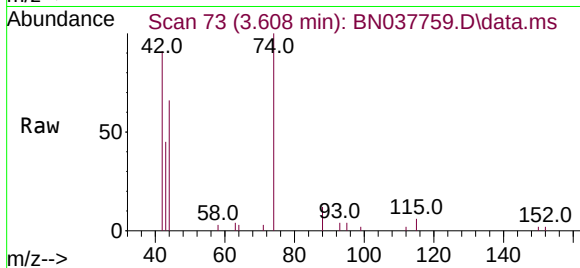




#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

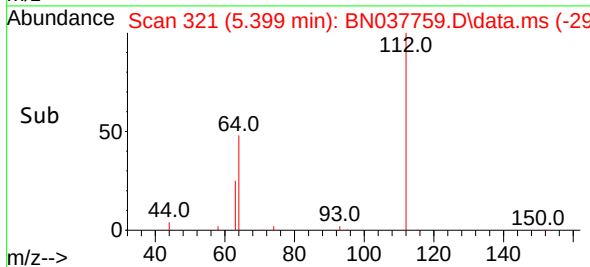
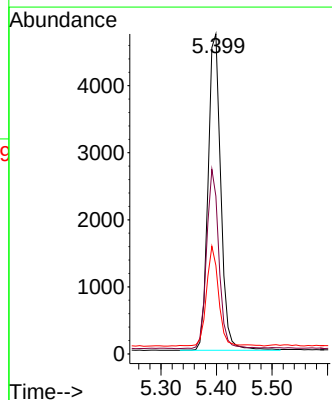
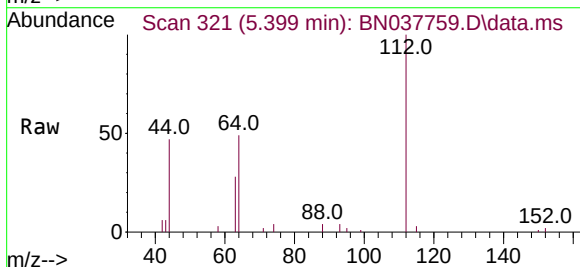
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BNA_N
ClientSampleId :
SSTDCCC0.4

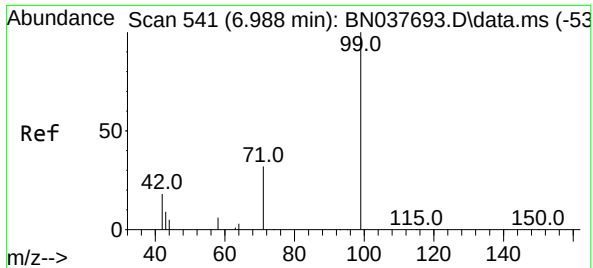
Tgt Ion:	42	Resp:	4100
Ion Ratio	Lower	Upper	
42	100		
74	117.7	86.0	129.0
44	9.8	8.4	12.6



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	112	Resp:	7521
Ion Ratio	Lower	Upper	
112	100		
64	54.9	44.9	67.3
63	29.9	24.7	37.1

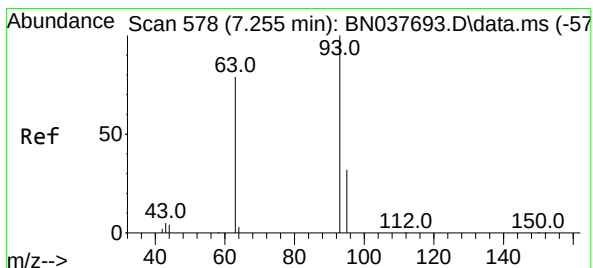
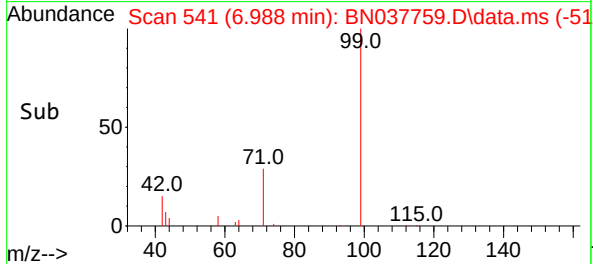
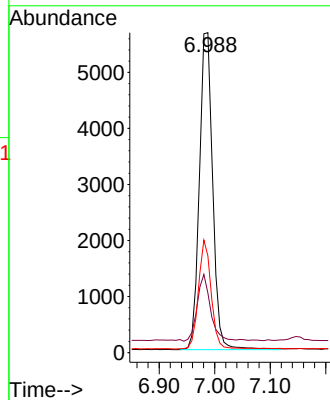
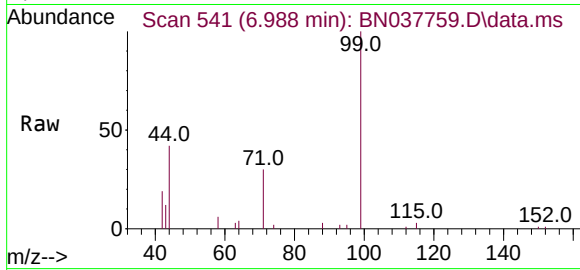




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

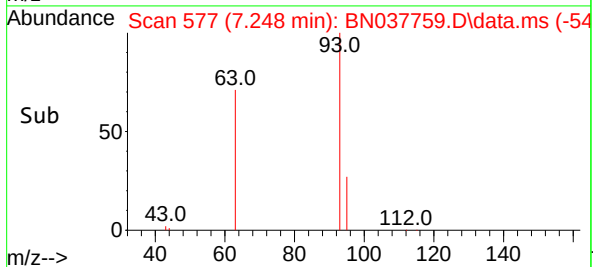
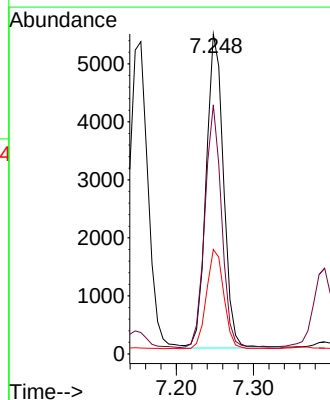
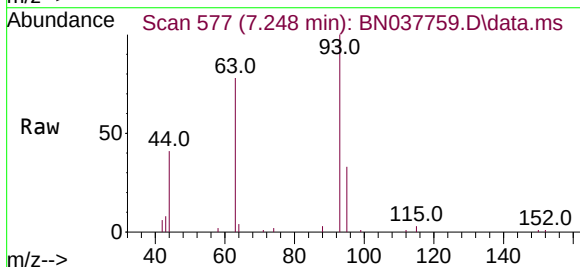
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ClientSampleId :
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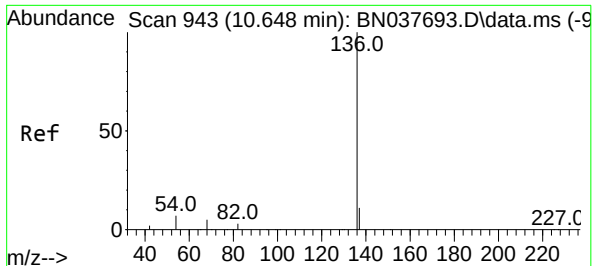
Tgt Ion: 99 Resp: 9450
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 32.7 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion: 93 Resp: 8459
Ion Ratio Lower Upper
93 100
63 74.5 60.6 90.8
95 31.6 26.0 39.0

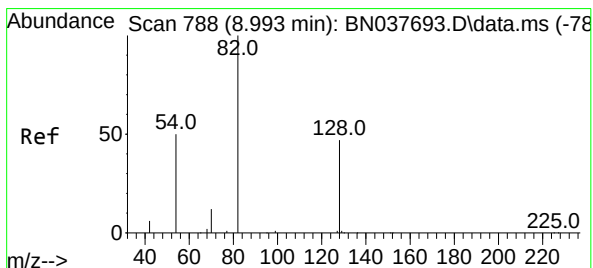
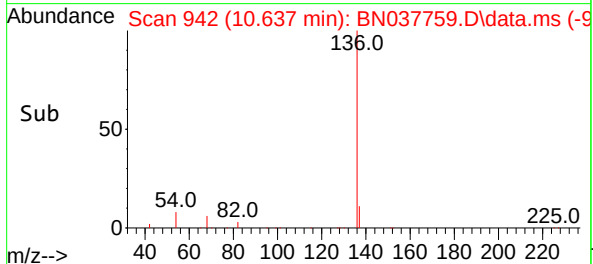
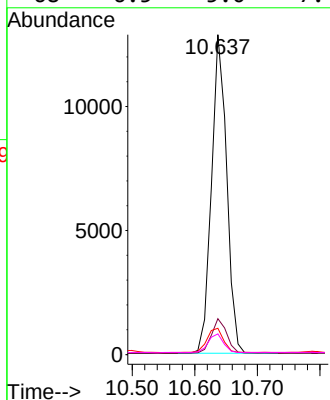
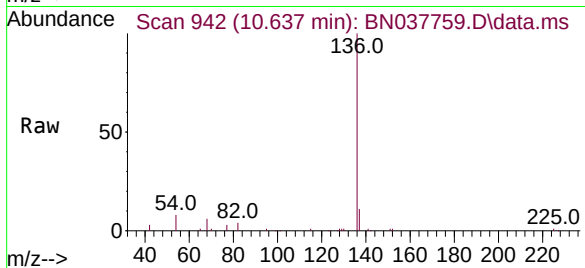




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

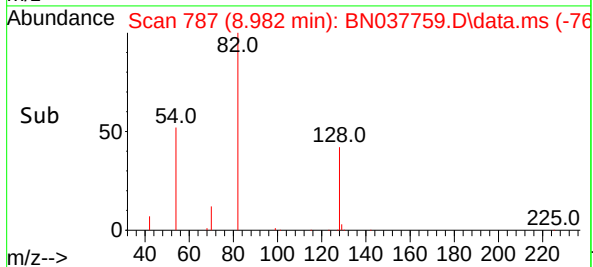
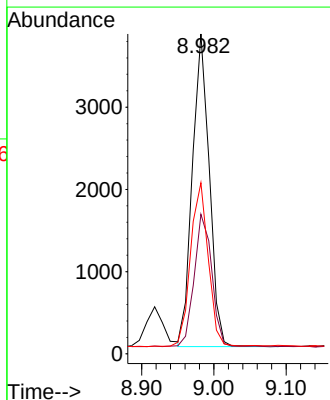
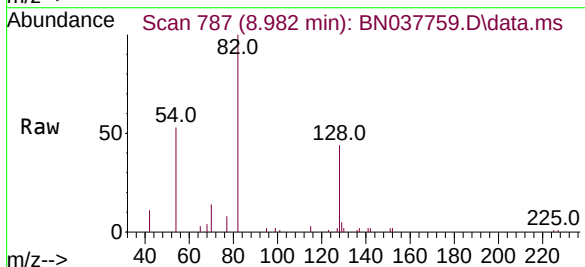
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

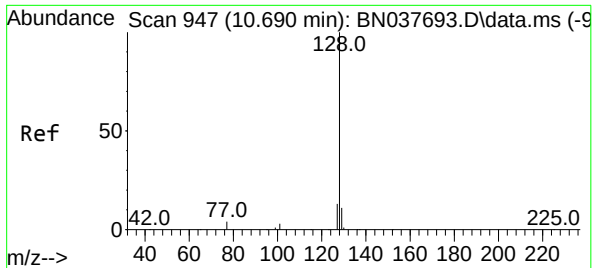
Tgt Ion:	136	Resp:	21664
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	8.2	6.3	9.5
68	6.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	82	Resp:	6195
Ion Ratio	Lower	Upper	
82	100		
128	43.6	38.3	57.5
54	53.5	41.4	62.2

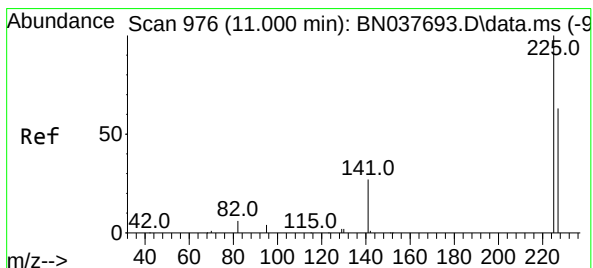
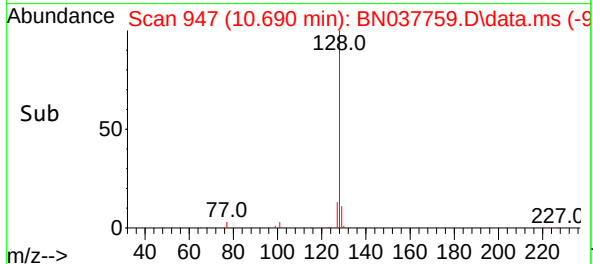
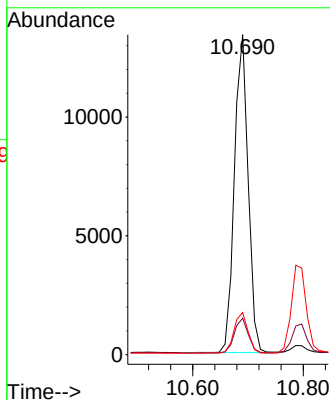
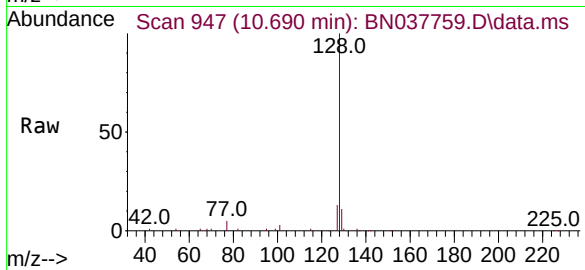




#9
Naphthalene
Concen: 0.389 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

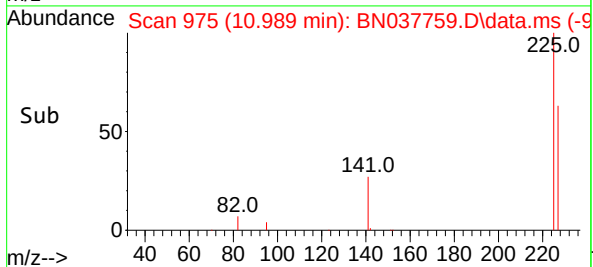
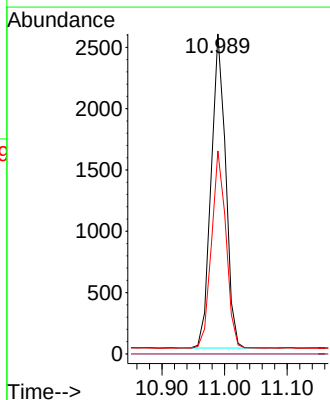
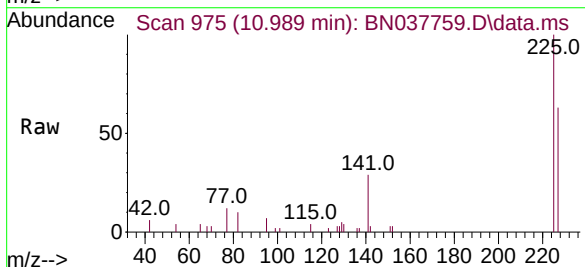
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ClientSampleId :
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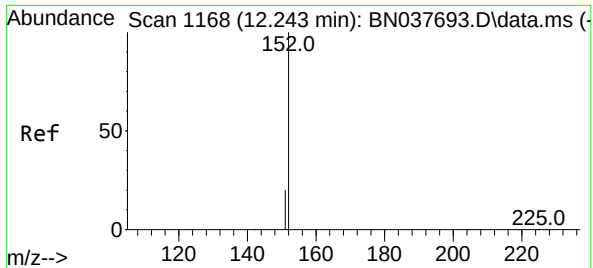
Tgt Ion:128 Resp: 23012
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.2 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:225 Resp: 4127
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.9 76.3

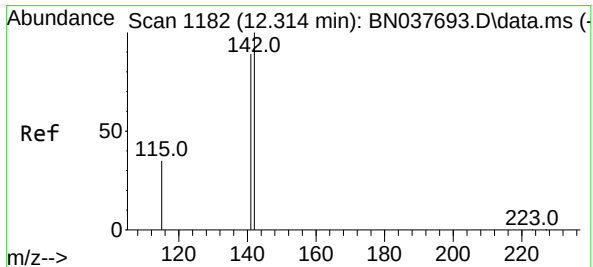
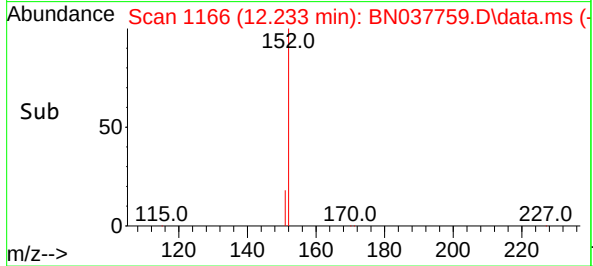
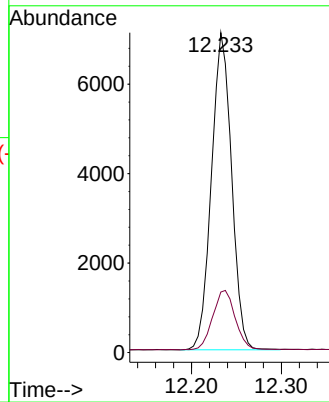
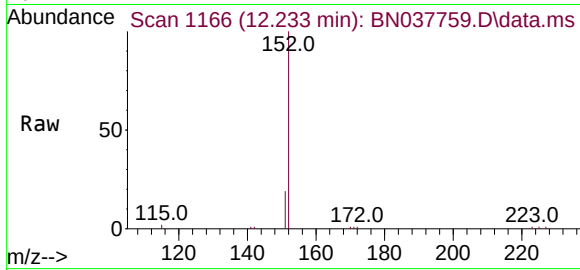




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

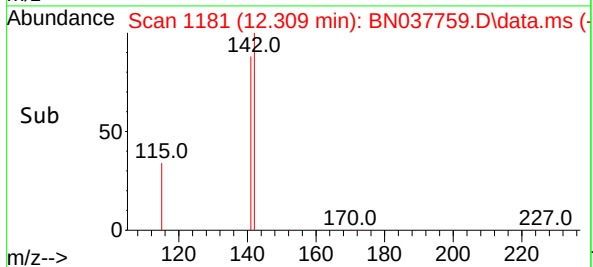
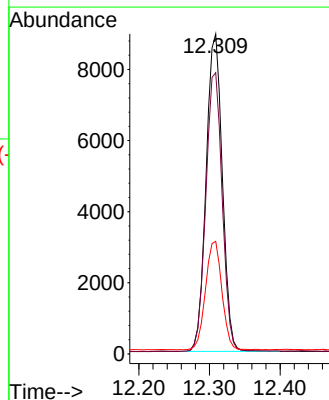
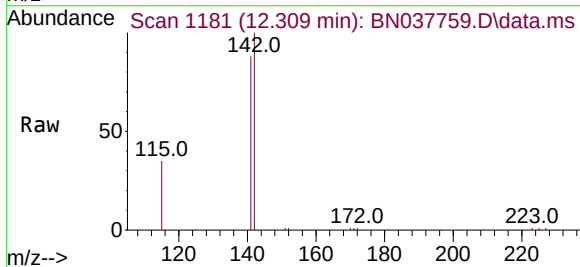
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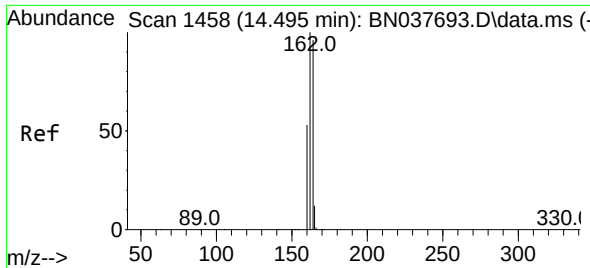
Tgt Ion:152 Resp: 11065
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.309 min Scan# 1181
Delta R.T. -0.005 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:142 Resp: 14242
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 35.2 28.6 43.0

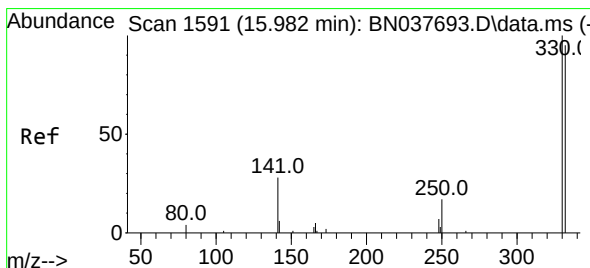
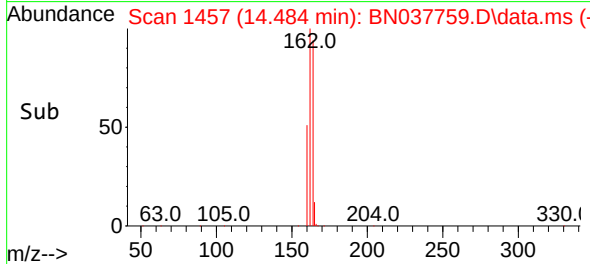
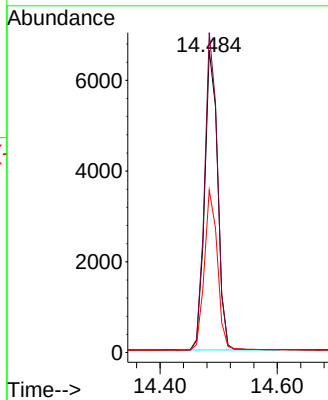
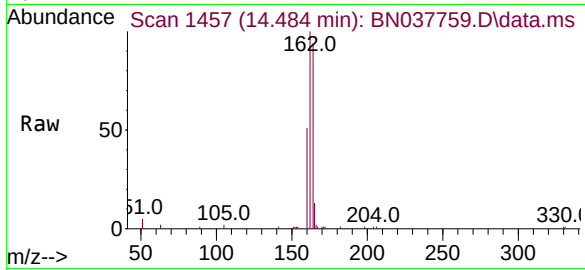




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

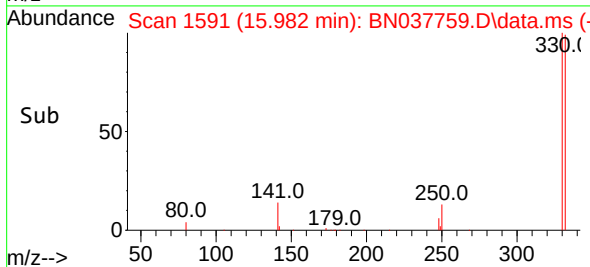
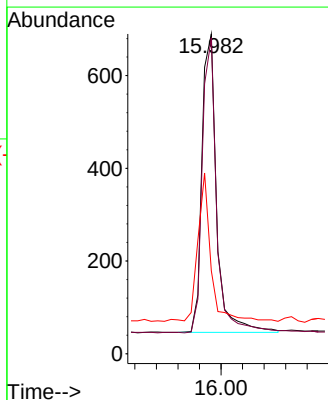
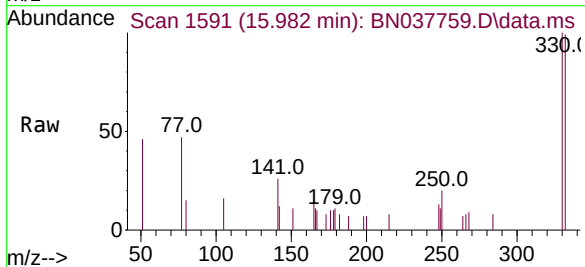
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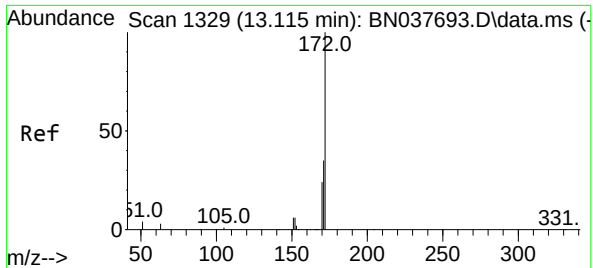
Tgt Ion:	164	Resp:	10192
Ion Ratio	Lower	Upper	
164	100		
162	105.9	83.1	124.7
160	53.8	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	330	Resp:	1222
Ion Ratio	Lower	Upper	
330	100		
332	96.4	75.3	112.9
141	43.6	35.0	52.4

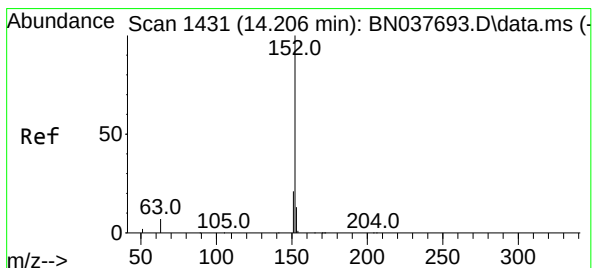
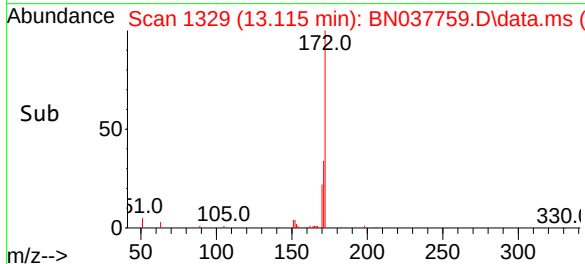
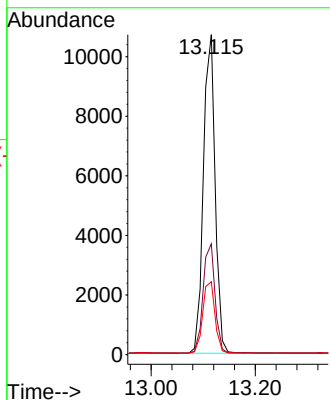
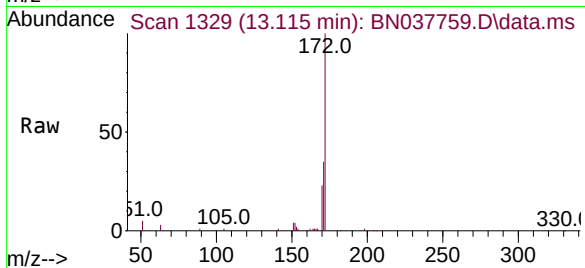




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

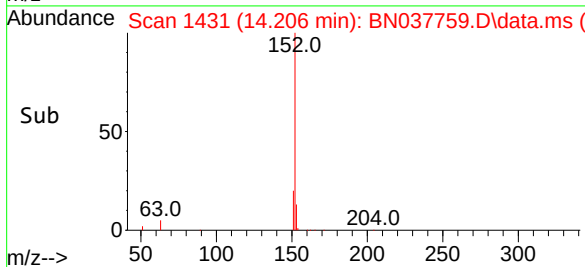
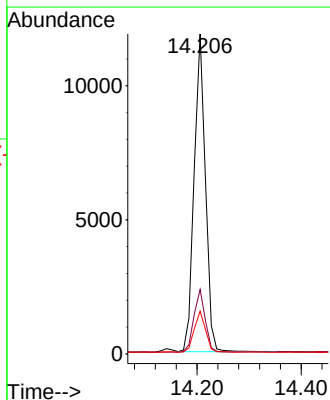
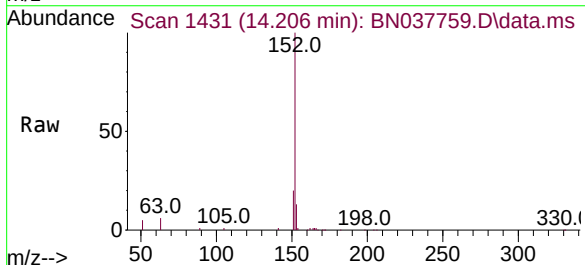
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

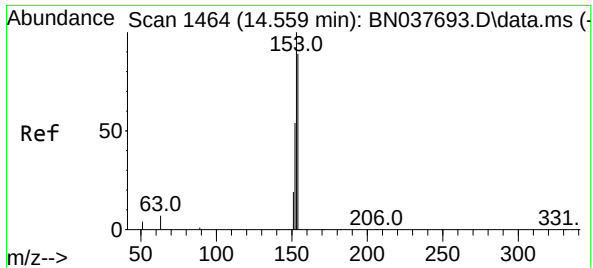
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	22.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6

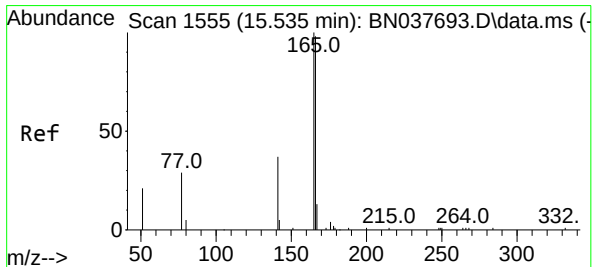
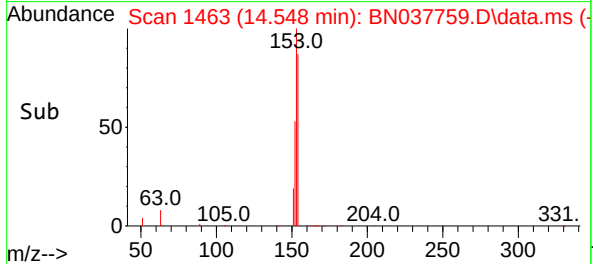
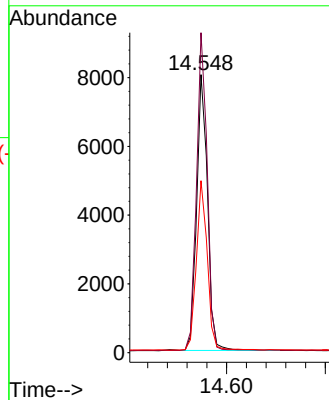
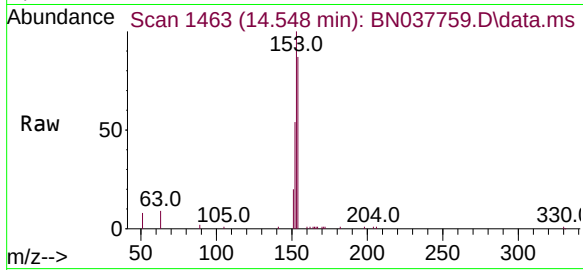




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

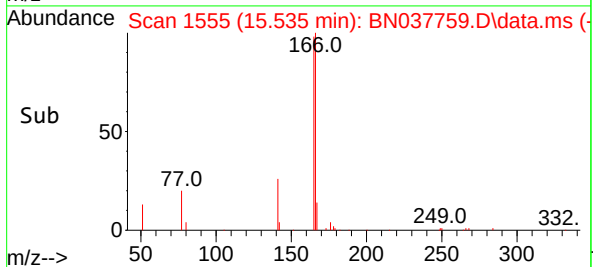
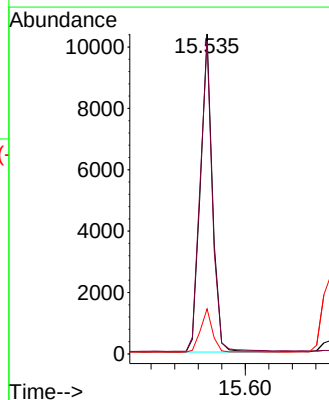
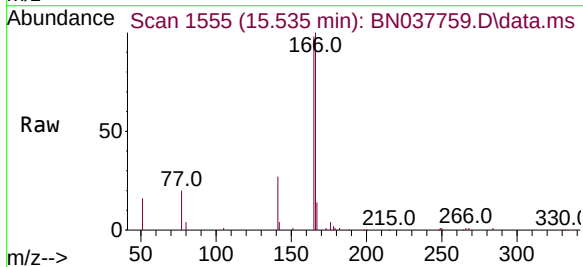
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

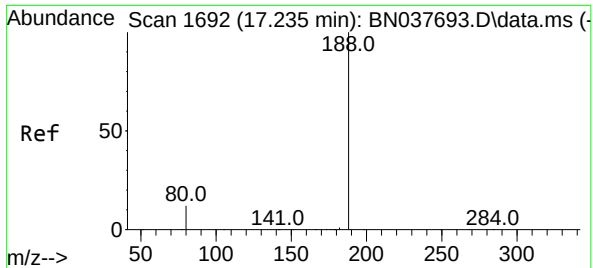
Tgt Ion:154 Resp: 12273
Ion Ratio Lower Upper
154 100
153 112.9 89.8 134.8
152 61.6 50.2 75.2



#18
Fluorene
Concen: 0.378 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:166 Resp: 14482
Ion Ratio Lower Upper
166 100
165 98.0 79.6 119.4
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

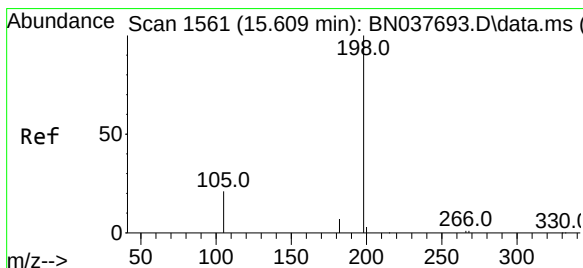
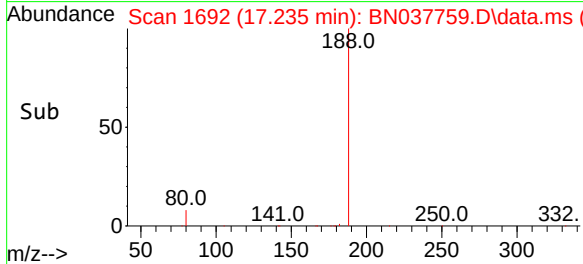
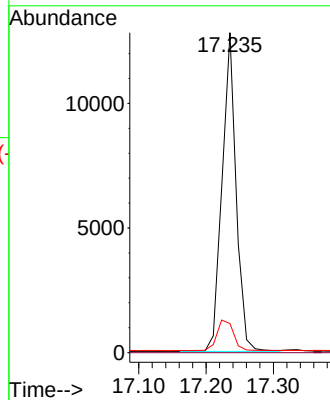
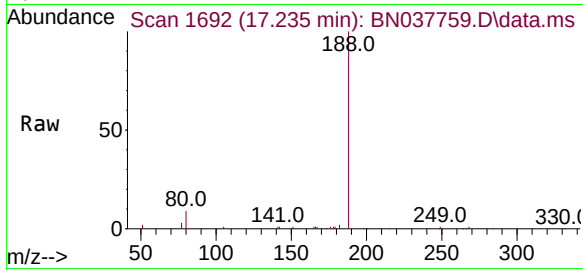
Tgt Ion:188 Resp: 18613

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.334 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

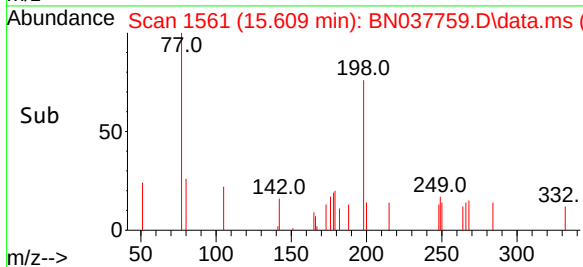
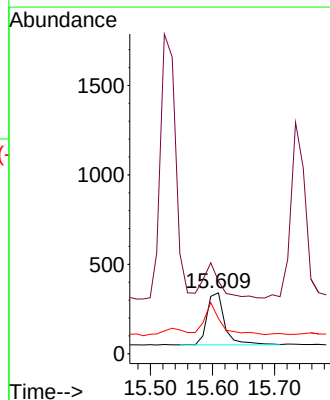
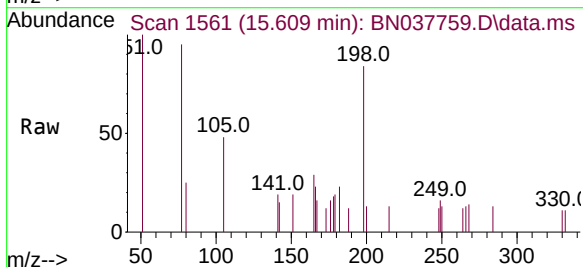
Tgt Ion:198 Resp: 576

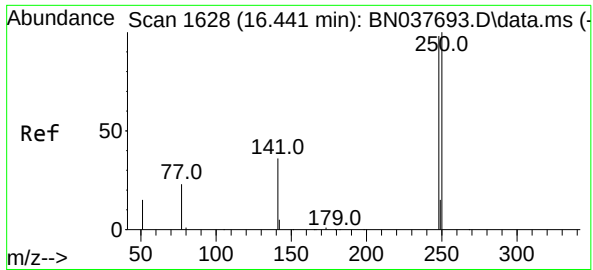
Ion Ratio Lower Upper

198 100

51 119.4 95.1 142.7

105 57.8 53.8 80.6

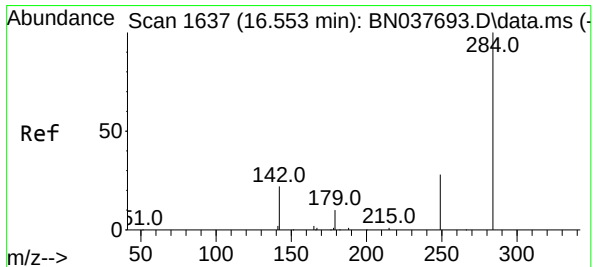
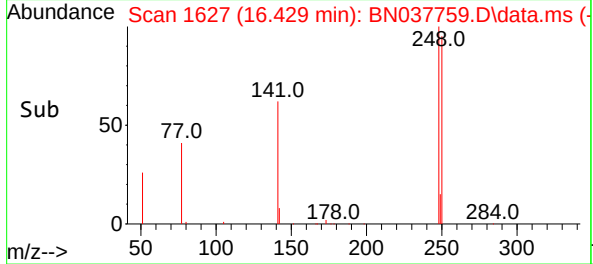
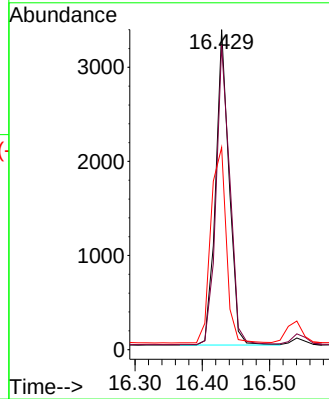
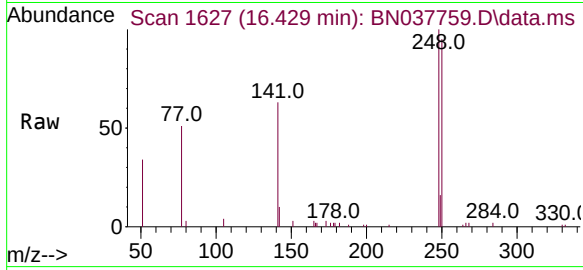




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

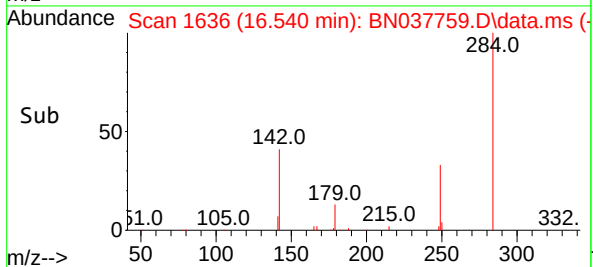
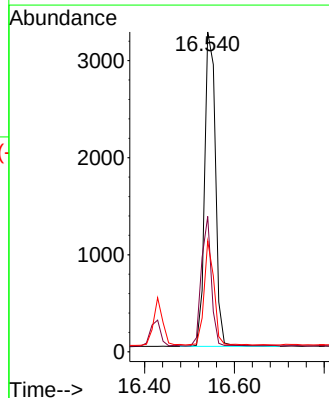
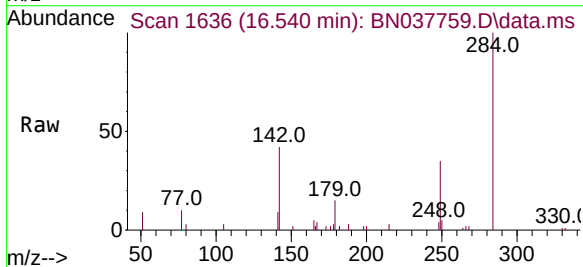
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

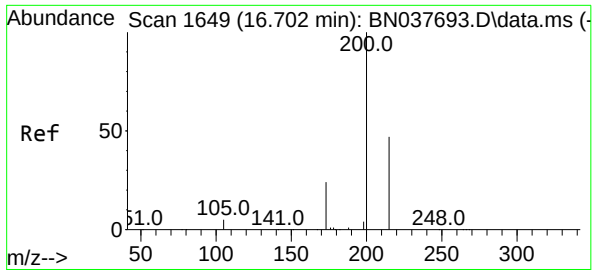
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.1	81.5	122.3
141	63.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.7	30.9	46.3
249	30.2	24.8	37.2

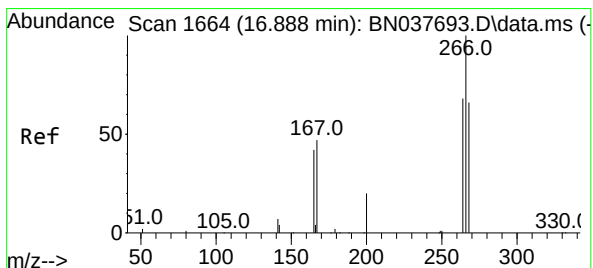
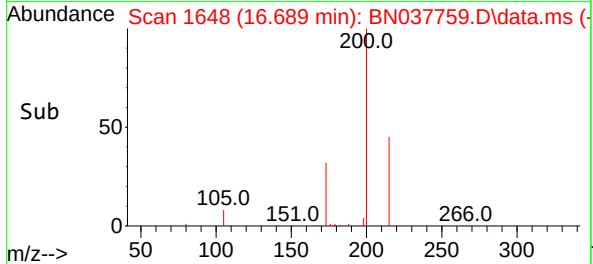
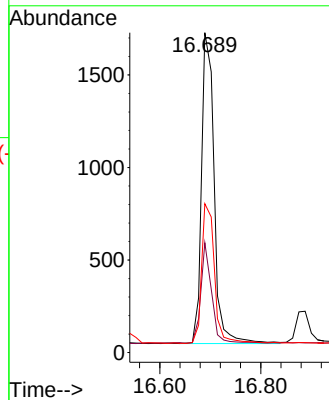
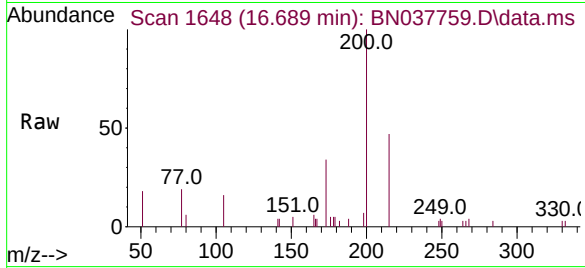




#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

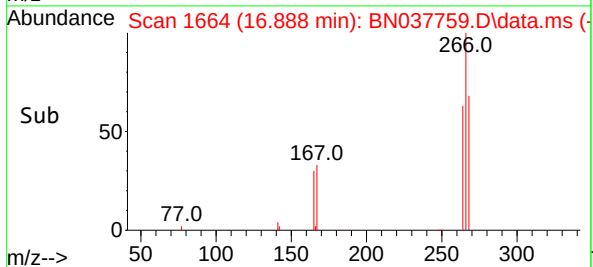
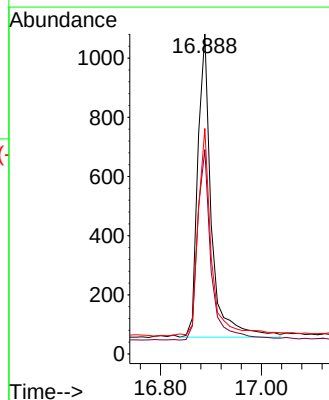
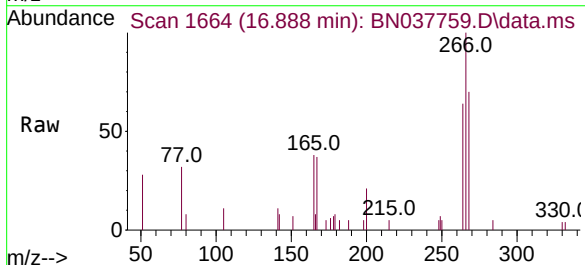
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

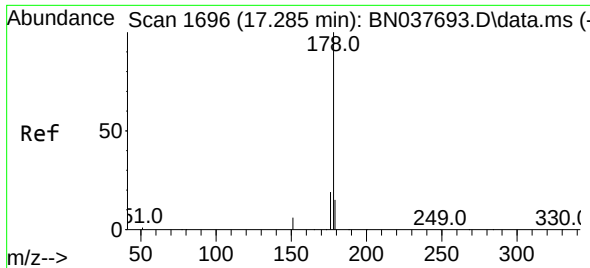
Tgt Ion	Ratio	Lower	Upper
200	100		
173	34.3	21.4	32.2
215	46.5	39.2	58.8



#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	51.6	77.4
268	68.8	53.2	79.8

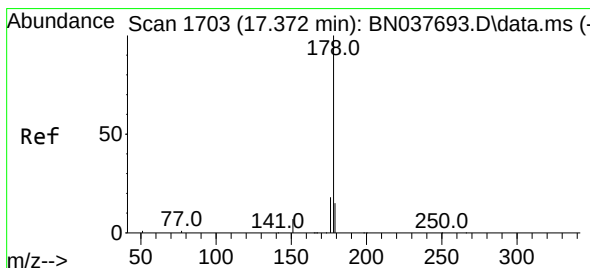
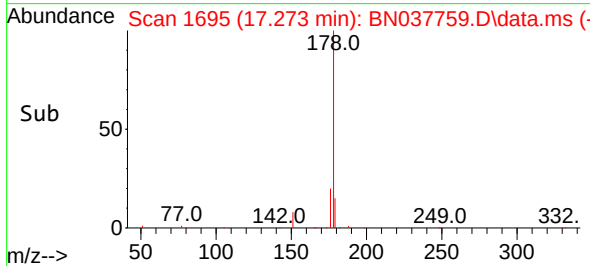
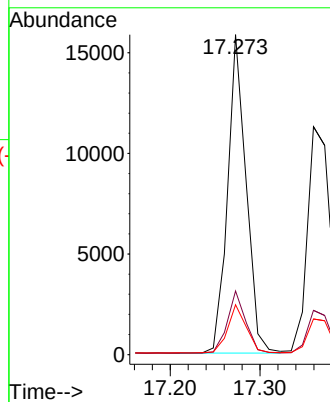
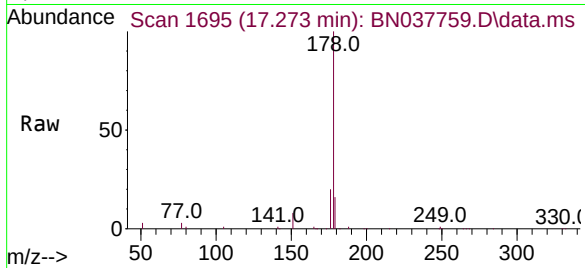




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

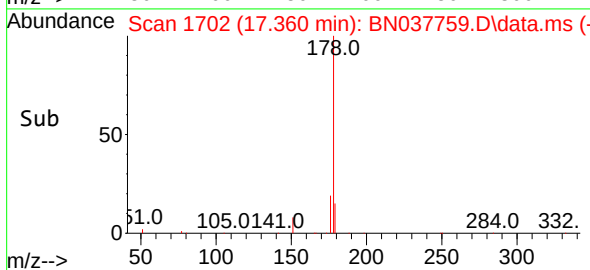
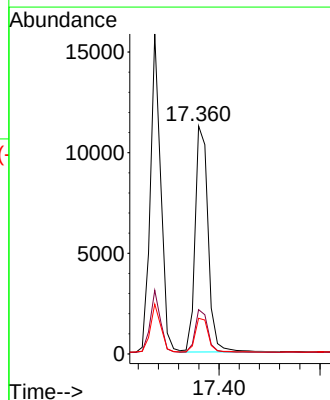
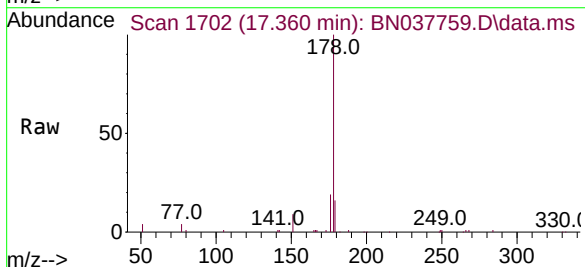
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

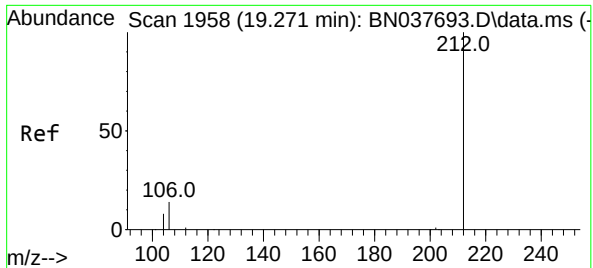
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.5	12.2	18.2



#26
Anthracene
Concen: 0.385 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.267 min Scan# 1958

Delta R.T. -0.005 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

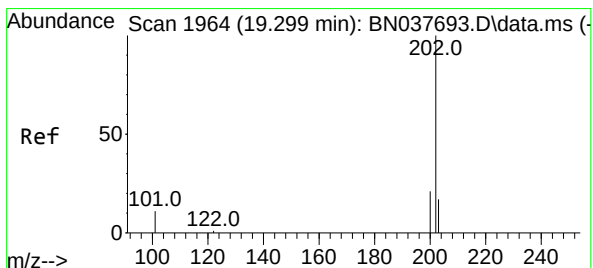
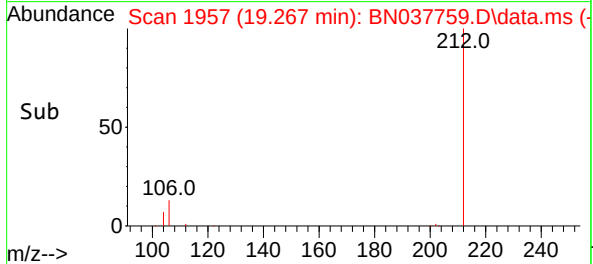
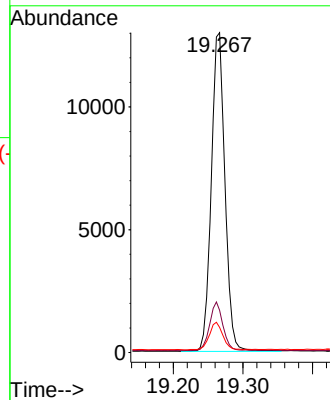
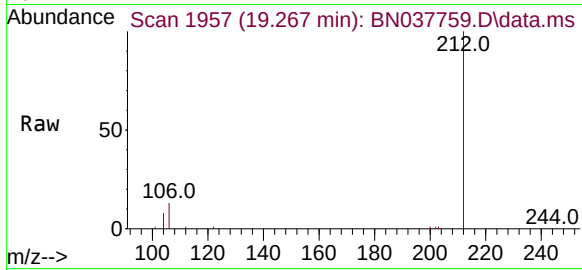
Tgt Ion:212 Resp: 17669

Ion Ratio Lower Upper

212 100

106 14.8 12.2 18.2

104 8.6 6.9 10.3



#28

Fluoranthene

Concen: 0.387 ng

RT: 19.294 min Scan# 1963

Delta R.T. -0.005 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

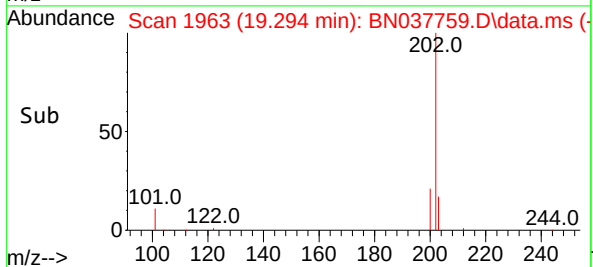
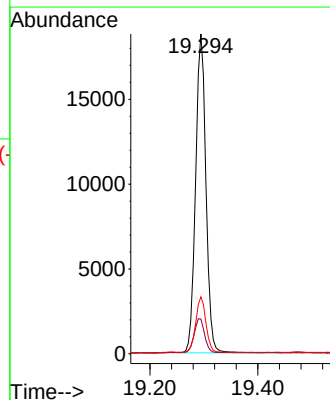
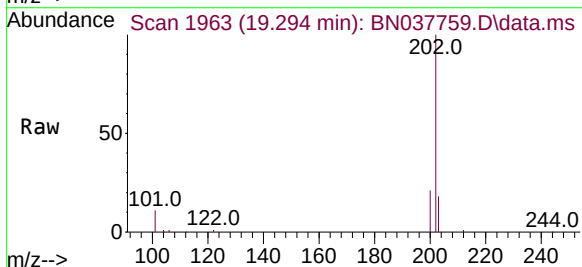
Tgt Ion:202 Resp: 24904

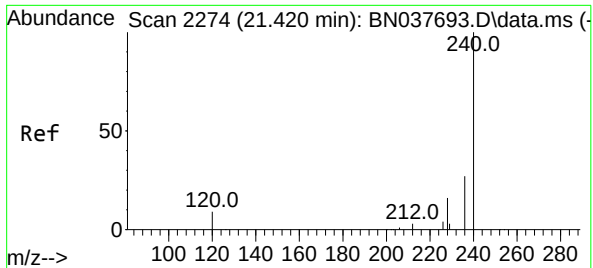
Ion Ratio Lower Upper

202 100

101 11.1 9.3 13.9

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

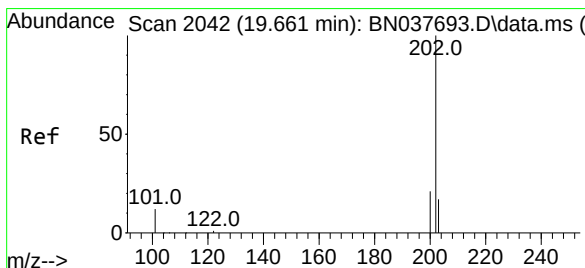
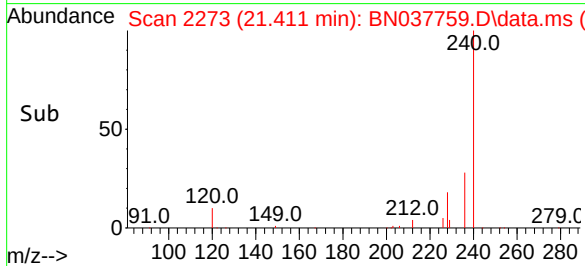
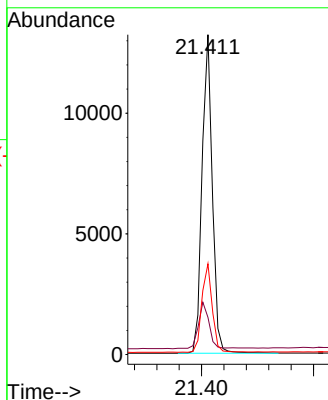
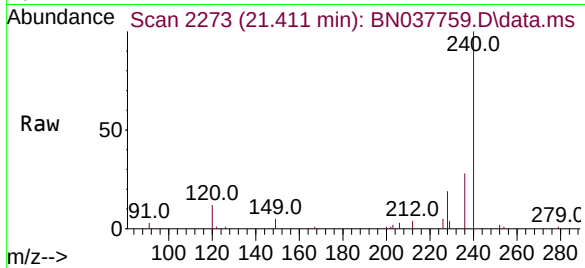
Tgt Ion:240 Resp: 16797

Ion Ratio Lower Upper

240 100

120 11.6 9.2 13.8

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.380 ng

RT: 19.657 min Scan# 2041

Delta R.T. -0.005 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

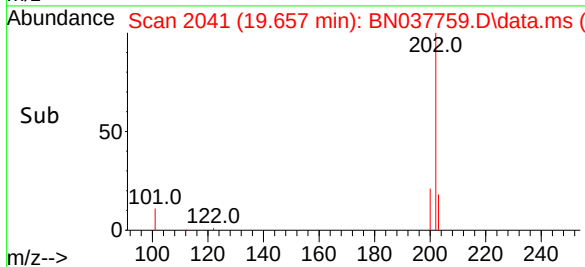
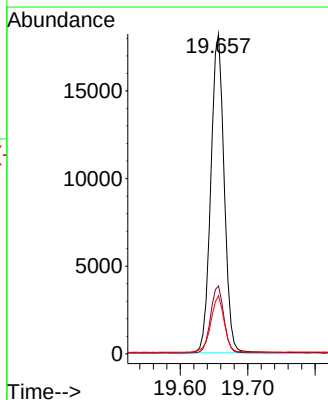
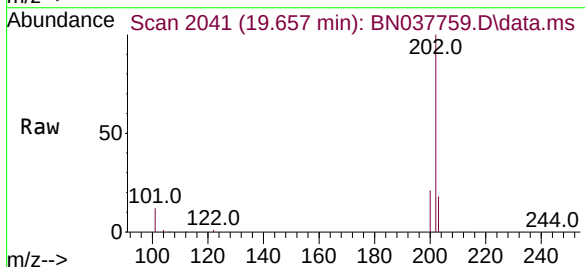
Tgt Ion:202 Resp: 24982

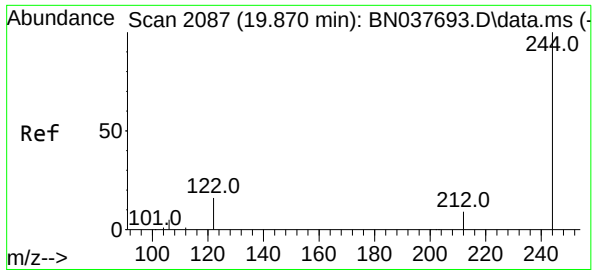
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.8 14.3 21.5

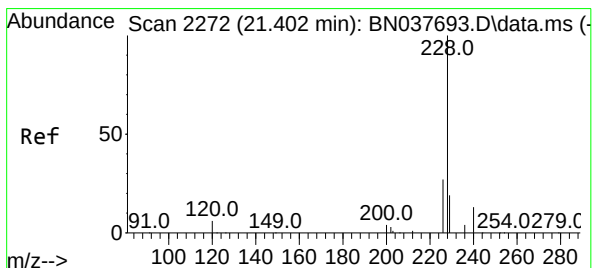
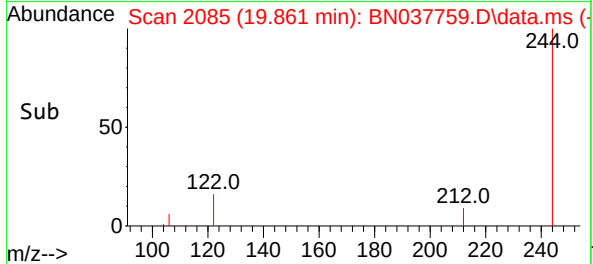
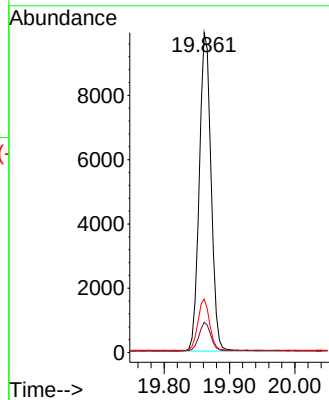
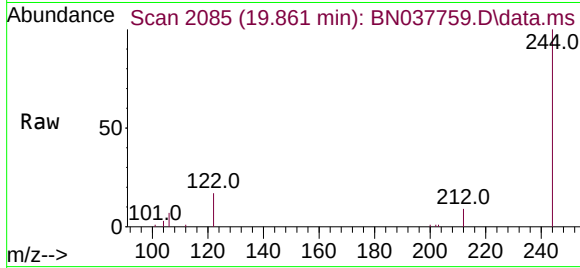




#31
Terphenyl-d14
Concen: 0.362 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

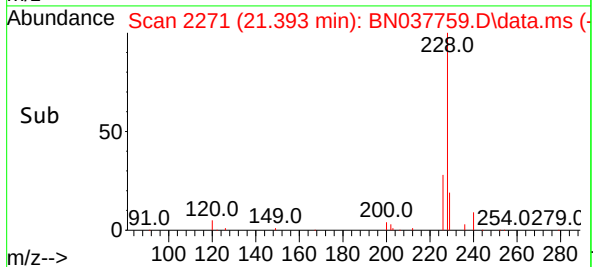
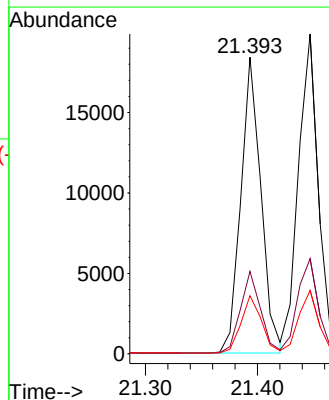
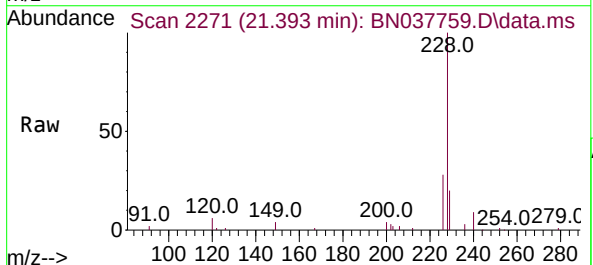
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

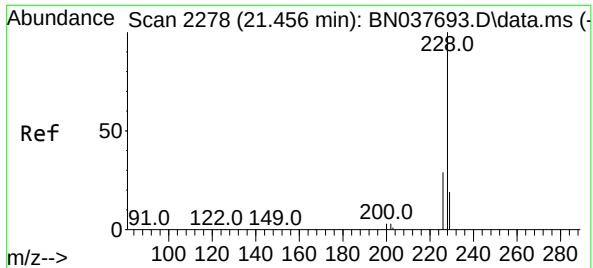
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	16.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.6	15.8	23.6

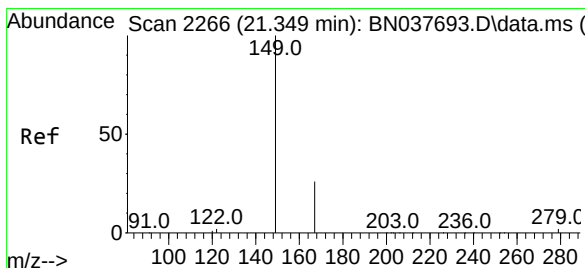
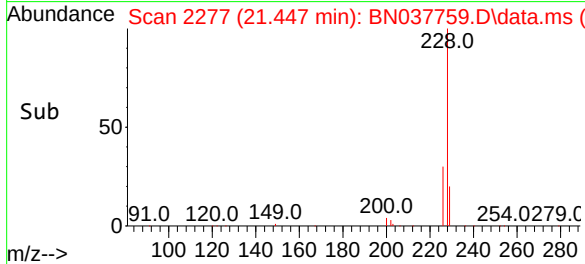
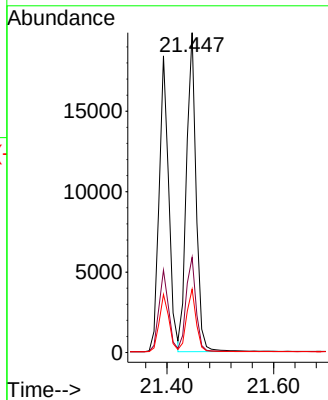
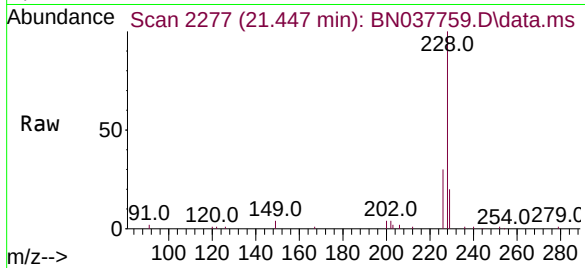




#33
Chrysene
Concen: 0.397 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

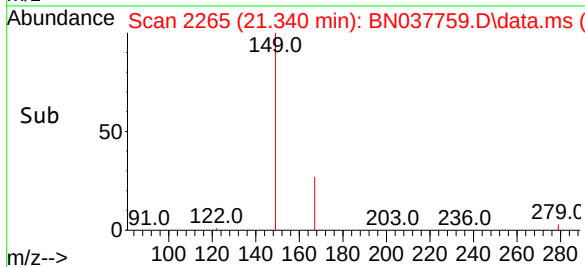
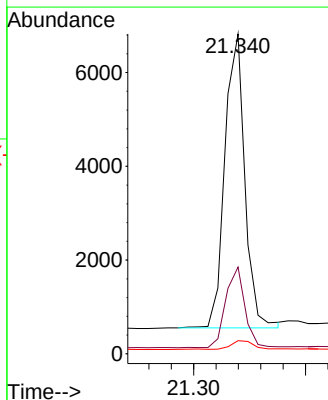
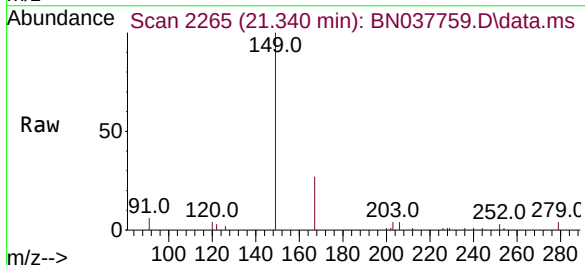
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

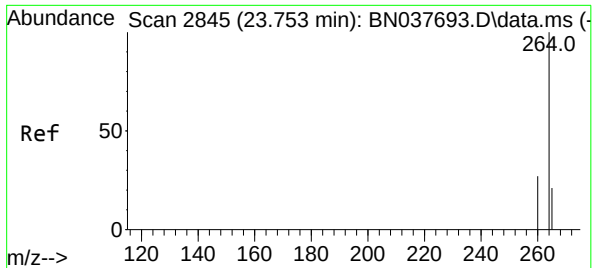
Tgt Ion:	228	Resp:	24936
Ion Ratio	Lower	Upper	
228	100		
226	29.8	23.5	35.3
229	19.8	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.340 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	149	Resp:	7755
Ion Ratio	Lower	Upper	
149	100		
167	26.5	20.8	31.2
279	3.3	3.3	4.9

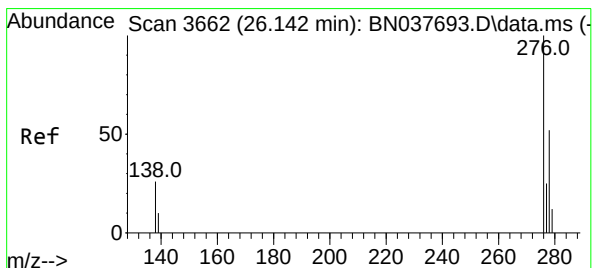
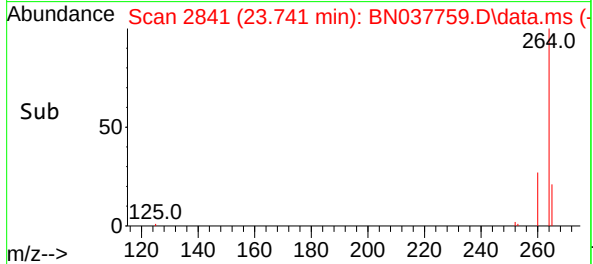
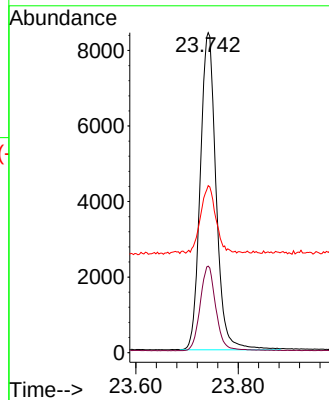
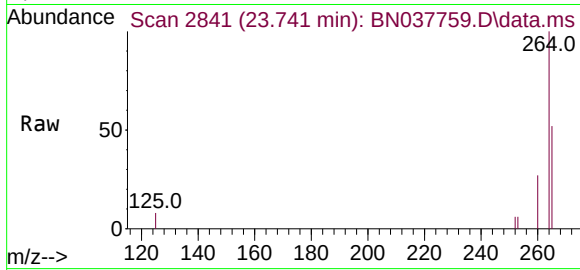




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 2841
Delta R.T. -0.012 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

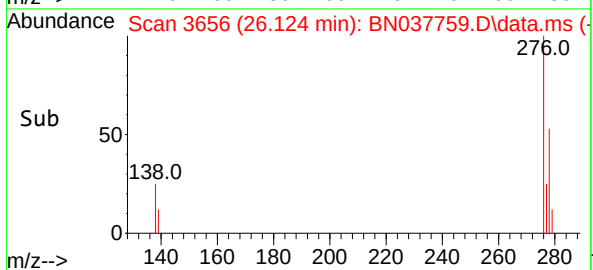
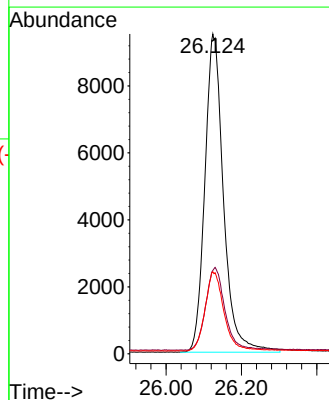
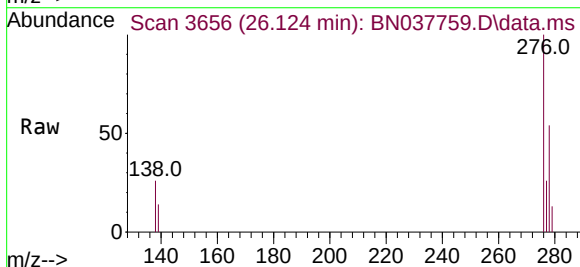
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

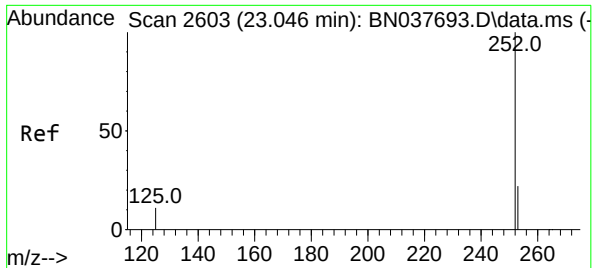
Tgt Ion:	264	260	265
Resp:	18043		
Ion Ratio	100	27.0	52.2
Lower		21.8	39.4
Upper		32.8	59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.431 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion:	276	277
Resp:	32683	
Ion Ratio	100	25.0
Lower		20.1
Upper		30.1

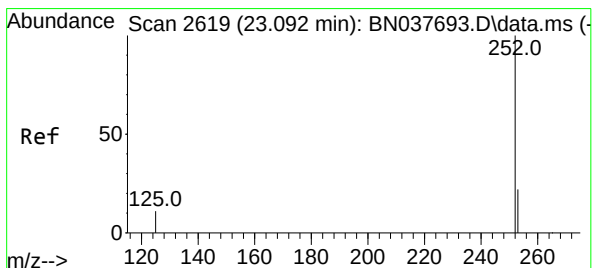
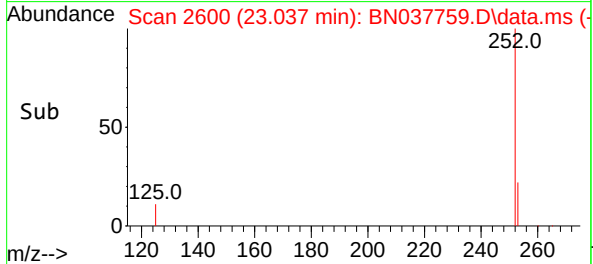
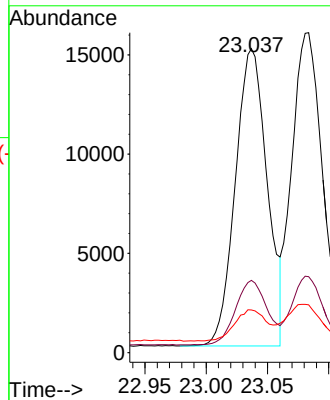
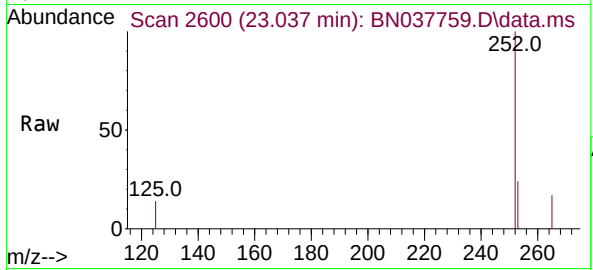




#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

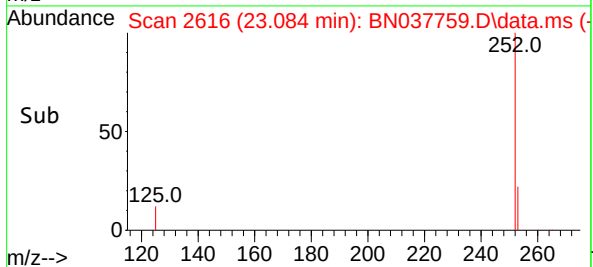
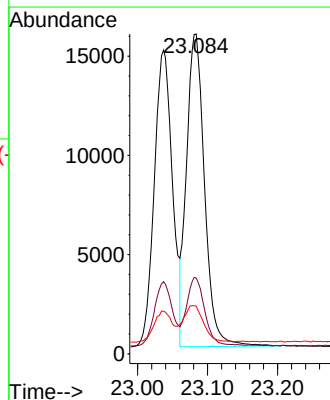
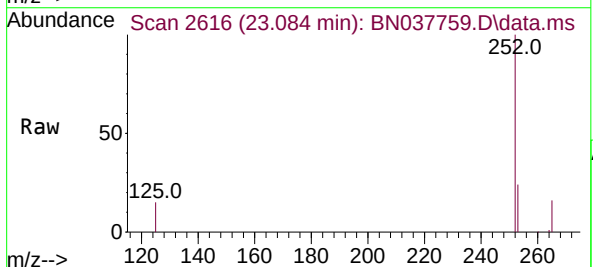
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

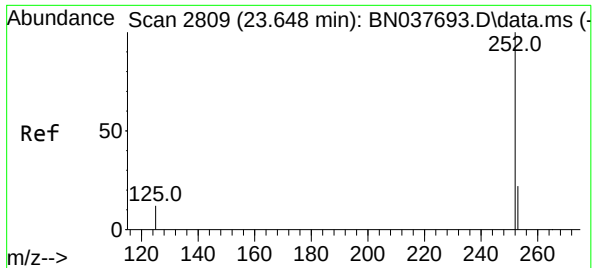
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	19.4	29.2
125	14.0	11.2	16.8



#38
Benzo(k)fluoranthene
Concen: 0.390 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037759.D
Acq: 18 Sep 2025 02:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.4	29.0
125	14.9	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 23.639 min Scan# 2806

Delta R.T. -0.009 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

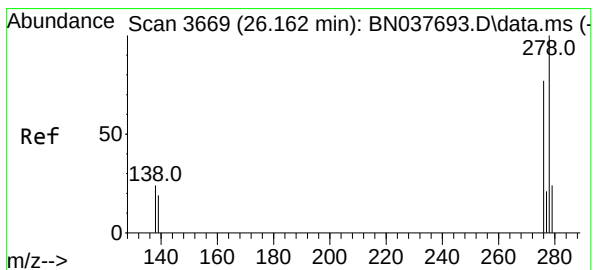
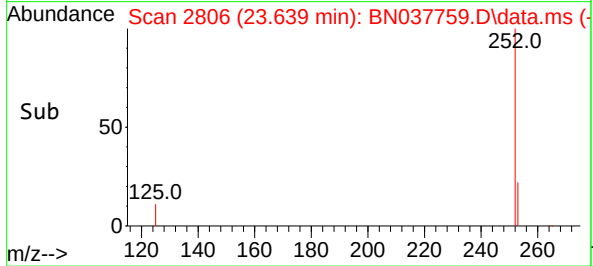
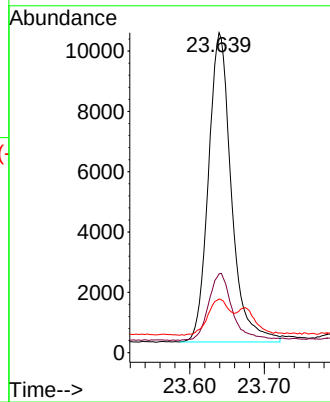
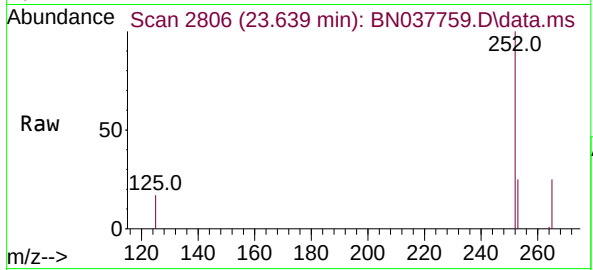
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	21959
Ion Ratio	Lower	Upper	
252	100		
253	24.6	20.8	31.2
125	16.8	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.432 ng

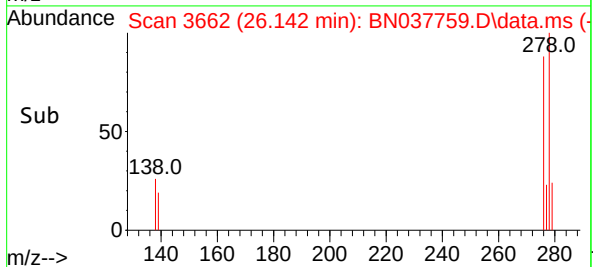
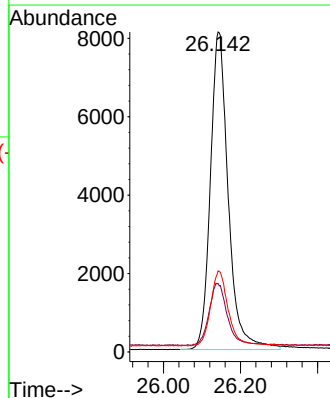
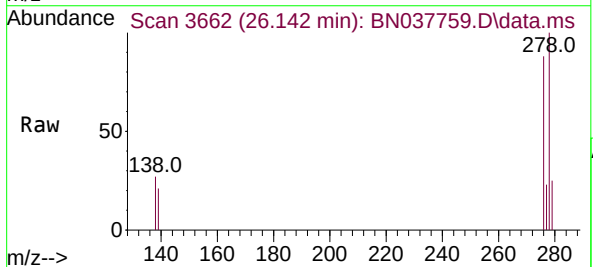
RT: 26.142 min Scan# 3662

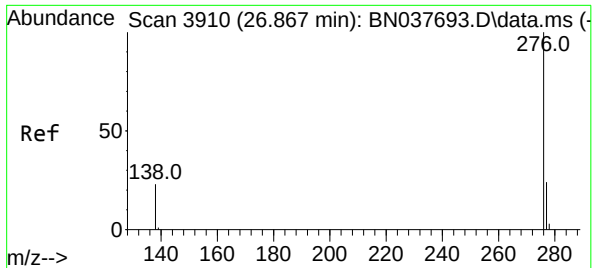
Delta R.T. -0.020 min

Lab File: BN037759.D

Acq: 18 Sep 2025 02:46

Tgt Ion:	278	Resp:	26135
Ion Ratio	Lower	Upper	
278	100		
139	21.4	17.8	26.6
279	25.3	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 26.852 min Scan# 39

Delta R.T. -0.015 min

Lab File: BN037759.D

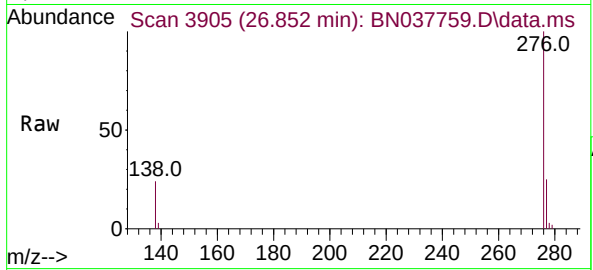
Acq: 18 Sep 2025 02:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



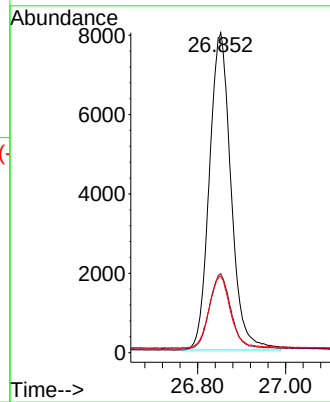
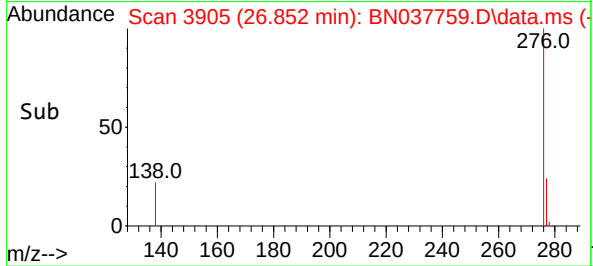
Tgt Ion:276 Resp: 27338

Ion Ratio Lower Upper

276 100

277 24.6 20.6 31.0

138 23.8 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	160#	0.00
2	1,4-Dioxane	0.417	0.432	-3.6	164#	0.00
3	n-Nitrosodimethylamine	0.544	0.512	5.9	146	0.00
4 S	2-Fluorophenol	0.918	0.939	-2.3	169#	0.00
5 S	Phenol-d6	1.191	1.179	1.0	164#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.056	0.8	158#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	164#	-0.01
8 S	Nitrobenzene-d5	0.293	0.286	2.4	164#	-0.01
9	Naphthalene	1.093	1.062	2.8	162#	0.00
10	Hexachlorobutadiene	0.198	0.191	3.5	158#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.511	3.6	168#	-0.01
12	2-Methylnaphthalene	0.676	0.657	2.8	163#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	164#	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.120	-15.4	196#	0.00
15 S	2-Fluorobiphenyl	1.673	1.646	1.6	164#	0.00
16	Acenaphthylene	1.834	1.743	5.0	161#	0.00
17	Acenaphthene	1.240	1.204	2.9	163#	-0.01
18	Fluorene	1.502	1.421	5.4	162#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	165#	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	155#	0.00
21	4-Bromophenyl-phenylether	0.261	0.251	3.8	165#	-0.01
22	Hexachlorobenzene	0.300	0.292	2.7	164#	-0.01
23	Atrazine	0.166	0.156	6.0	170#	-0.01
24	Pentachlorophenol	0.087	0.103	-18.4	227#	0.00
25	Phenanthrene	1.259	1.218	3.3	165#	-0.01
26	Anthracene	1.116	1.073	3.9	166#	-0.01
27 SURR	Fluoranthene-d10	1.004	0.949	5.5	168#	0.00
28	Fluoranthene	1.381	1.338	3.1	169#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	179#	0.00
30	Pyrene	1.566	1.487	5.0	171#	0.00
31 S	Terphenyl-d14	0.812	0.735	9.5	164#	0.00
32	Benzo(a)anthracene	1.395	1.368	1.9	182#	0.00
33	Chrysene	1.496	1.485	0.7	178#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.462	-11.6	220#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	201#	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.811	-7.7	236#	-0.02
37	Benzo(b)fluoranthene	1.575	1.500	4.8	194#	0.00
38	Benzo(k)fluoranthene	1.606	1.567	2.4	207#	0.00
39 C	Benzo(a)pyrene	1.261	1.217	3.5	204#	0.00
40	Dibenzo(a,h)anthracene	1.342	1.448	-7.9	241#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.515	-0.6	210#	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037759.D
Acq On : 18 Sep 2025 02:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 05:02:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	160	0.00
2	1,4-Dioxane	0.400	0.415	-3.7	164	0.00
3	n-Nitrosodimethylamine	0.400	0.376	6.0	146	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	169	0.00
5 S	Phenol-d6	0.400	0.396	1.0	164	0.00
6	bis(2-Chloroethyl)ether	0.400	0.397	0.8	158	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	164	-0.01
8 S	Nitrobenzene-d5	0.400	0.391	2.3	164	-0.01
9	Naphthalene	0.400	0.389	2.8	162	0.00
10	Hexachlorobutadiene	0.400	0.385	3.8	158	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	168	-0.01
12	2-Methylnaphthalene	0.400	0.389	2.8	163	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	164	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.460	-15.0	196	0.00
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	164	0.00
16	Acenaphthylene	0.400	0.380	5.0	161	0.00
17	Acenaphthene	0.400	0.388	3.0	163	-0.01
18	Fluorene	0.400	0.378	5.5	162	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	165	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	155	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	165	-0.01
22	Hexachlorobenzene	0.400	0.389	2.8	164	-0.01
23	Atrazine	0.400	0.375	6.3	170	-0.01
24	Pentachlorophenol	0.400	0.471	-17.7	227	0.00
25	Phenanthrene	0.400	0.387	3.3	165	-0.01
26	Anthracene	0.400	0.385	3.8	166	-0.01
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	168	0.00
28	Fluoranthene	0.400	0.387	3.3	169	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	179	0.00
30	Pyrene	0.400	0.380	5.0	171	0.00
31 S	Terphenyl-d14	0.400	0.362	9.5	164	0.00
32	Benzo(a)anthracene	0.400	0.392	2.0	182	0.00
33	Chrysene	0.400	0.397	0.8	178	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	220	0.00
35 I	Perylene-d12	0.400	0.400	0.0	201	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.431	-7.7	236	-0.02
37	Benzo(b)fluoranthene	0.400	0.381	4.8	194	0.00
38	Benzo(k)fluoranthene	0.400	0.390	2.5	207	0.00
39 C	Benzo(a)pyrene	0.400	0.386	3.5	204	0.00
40	Dibenzo(a,h)anthracene	0.400	0.432	-8.0	241	-0.02
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	210	-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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 13:16
 Lab File ID: BN037774.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.506		-4.5	50.0
Fluoranthene-d10	1.004	0.949		-5.5	50.0
2-Fluorophenol	0.918	0.915		-0.3	50.0
Phenol-d6	1.191	1.160		-2.6	50.0
Nitrobenzene-d5	0.293	0.296		1.0	50.0
2-Fluorobiphenyl	1.673	1.646		-1.6	50.0
2,4,6-Tribromophenol	0.104	0.126		21.2	50.0
Terphenyl-d14	0.812	0.758		-6.7	50.0
1,4-Dioxane	0.417	0.425		1.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037774.D
 Acq On : 18 Sep 2025 13:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 18 13:43:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

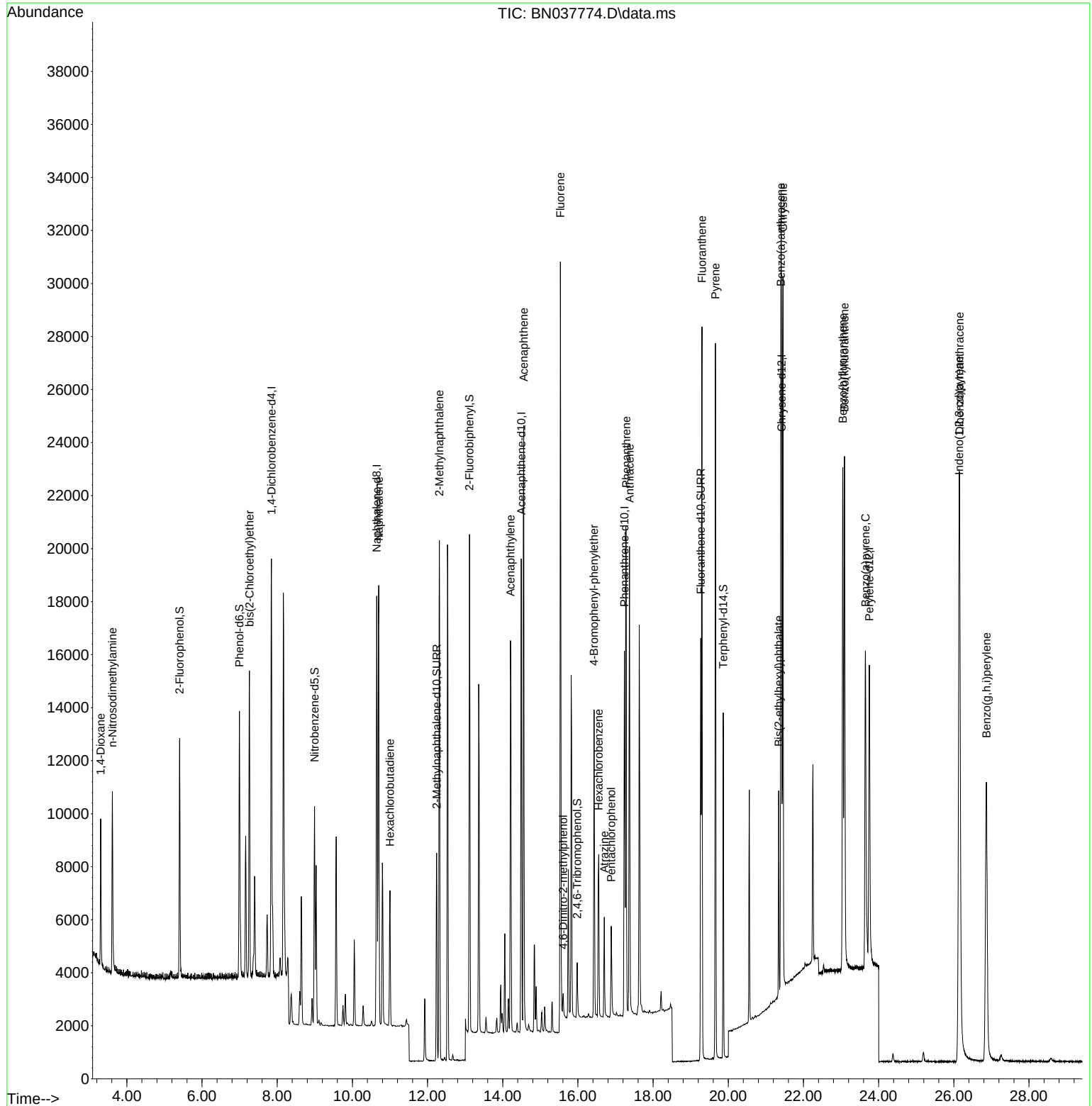
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.847	152	7889	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	20894	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	9741	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	18065	0.400	ng	0.00
29) Chrysene-d12	21.420	240	16005	0.400	ng	0.00
35) Perylene-d12	23.753	264	16216	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.406	112	7221	0.399	ng	0.00
5) Phenol-d6	6.995	99	9149	0.390	ng	0.00
8) Nitrobenzene-d5	8.993	82	6183	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	10579	0.382	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	1232	0.485	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	16033	0.394	ng	0.00
27) Fluoranthene-d10	19.266	212	17138	0.378	ng	0.00
31) Terphenyl-d14	19.866	244	12130	0.373	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	3351	0.408	ng	96
3) n-Nitrosodimethylamine	3.615	42	4085	0.381	ng	91
6) bis(2-Chloroethyl)ether	7.262	93	8348	0.398	ng	98
9) Naphthalene	10.701	128	22536	0.395	ng	100
10) Hexachlorobutadiene	11.000	225	4013	0.388	ng	# 99
12) 2-Methylnaphthalene	12.314	142	13704	0.388	ng	99
16) Acenaphthylene	14.206	152	16996	0.380	ng	99
17) Acenaphthene	14.559	154	11822	0.391	ng	99
18) Fluorene	15.535	166	14211	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	668	0.399	ng	89
21) 4-Bromophenyl-phenylether	16.429	248	4506	0.383	ng	# 69
22) Hexachlorobenzene	16.553	284	5415	0.400	ng	98
23) Atrazine	16.702	200	2912	0.389	ng	98
24) Pentachlorophenol	16.888	266	1796	0.457	ng	97
25) Phenanthrene	17.285	178	22453	0.395	ng	100
26) Anthracene	17.372	178	19091	0.379	ng	99
28) Fluoranthene	19.299	202	24335	0.390	ng	100
30) Pyrene	19.657	202	24230	0.387	ng	100
32) Benzo(a)anthracene	21.402	228	21339	0.382	ng	99
33) Chrysene	21.456	228	23785	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.339	149	7017	0.424	ng	98
36) Indeno(1,2,3-cd)pyrene	26.139	276	29869	0.438	ng	100
37) Benzo(b)fluoranthene	23.046	252	24782	0.388	ng	98
38) Benzo(k)fluoranthene	23.092	252	26275	0.404	ng	99
39) Benzo(a)pyrene	23.648	252	19411	0.380	ng	98
40) Dibenzo(a,h)anthracene	26.153	278	24050	0.442	ng	97
41) Benzo(g,h,i)perylene	26.867	276	24546	0.402	ng	98

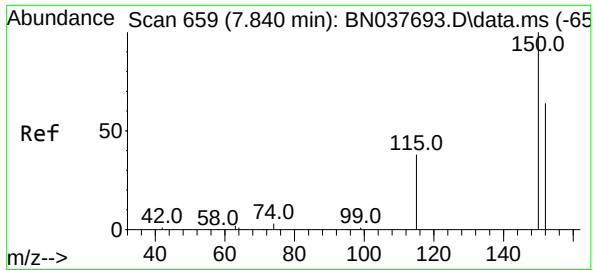
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Operator  : RC/JU  
Sample    : SSTDCCC0.4  
Misc      :  
ALS Vial  : 35    Sample Multiplier: 1
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Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

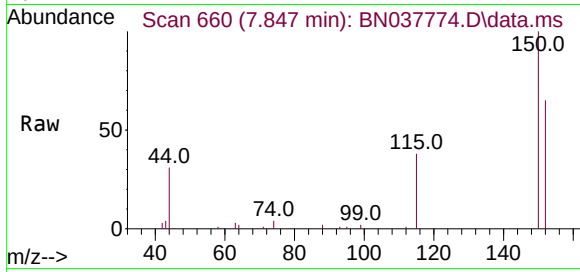
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



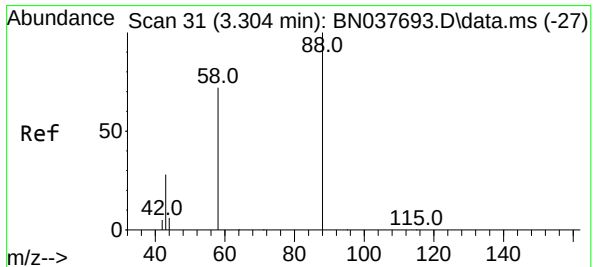
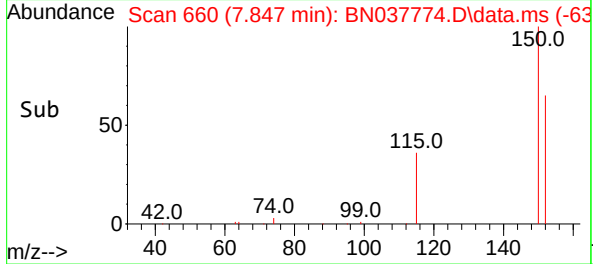
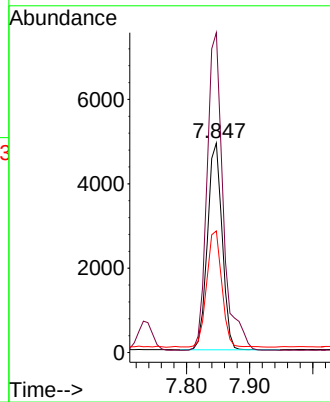


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.847 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

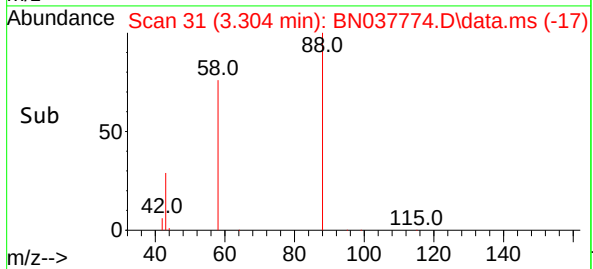
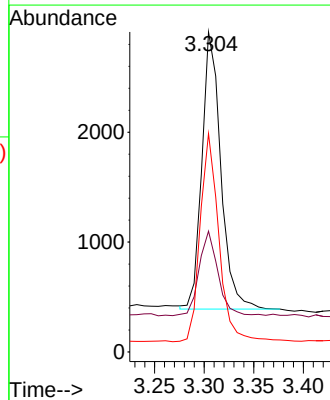
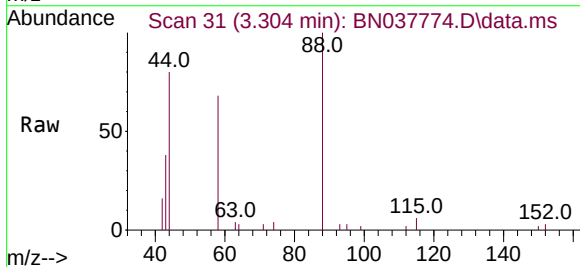


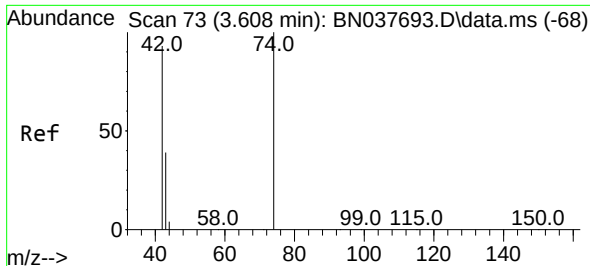
Tgt Ion:152 Resp: 7889
Ion Ratio Lower Upper
152 100
150 152.7 124.5 186.7
115 58.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 30.6 26.8 40.2
58 74.3 61.9 92.9

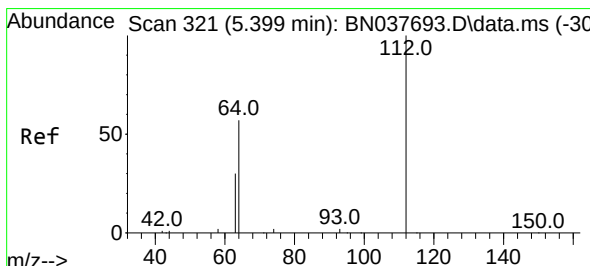
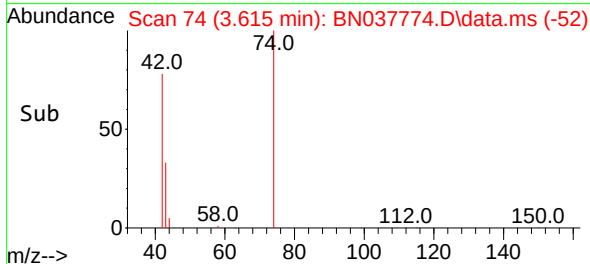
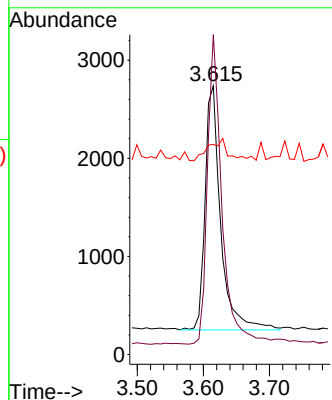
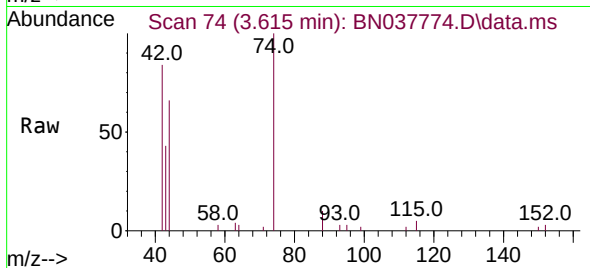




#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.615 min Scan# 74
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

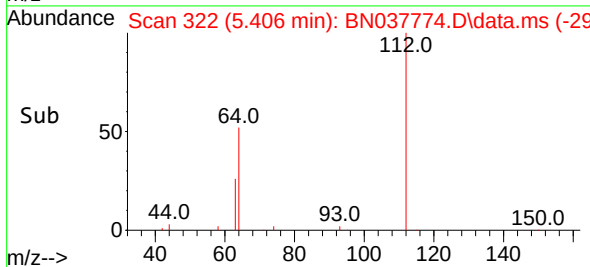
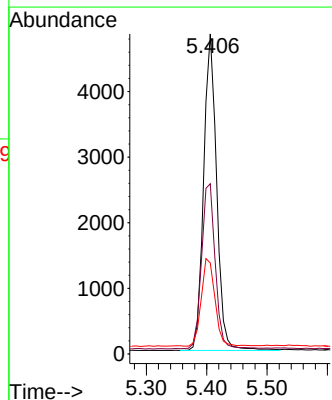
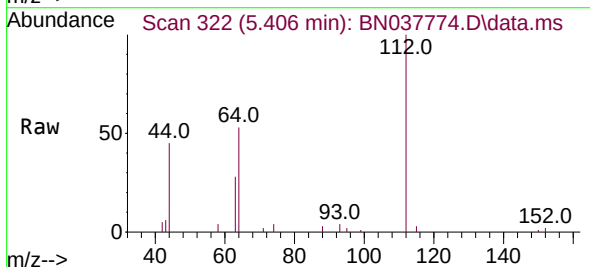
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

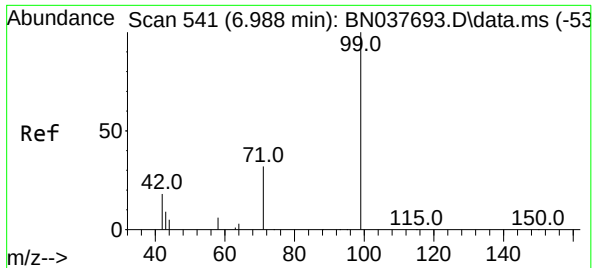
Tgt Ion: 42 Resp: 4085
Ion Ratio Lower Upper
42 100
74 118.1 86.0 129.0
44 11.0 8.4 12.6



#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.406 min Scan# 322
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 112 Resp: 7221
Ion Ratio Lower Upper
112 100
64 55.2 44.9 67.3
63 29.2 24.7 37.1

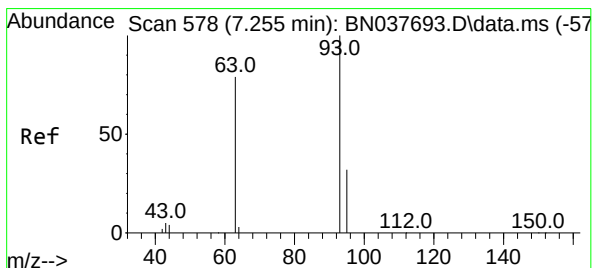
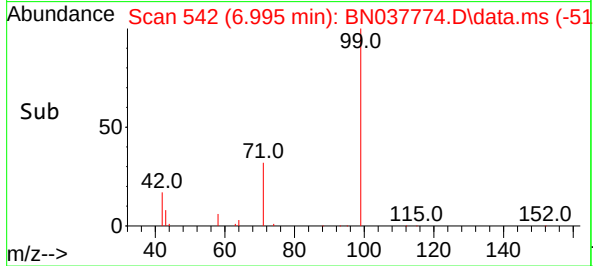
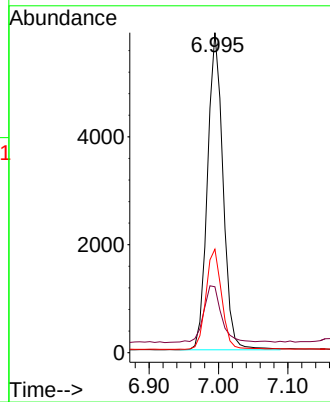
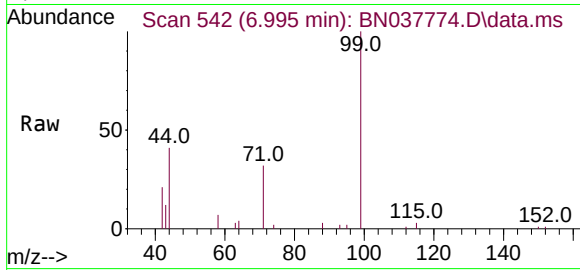




#5
Phenol-d6
Concen: 0.390 ng
RT: 6.995 min Scan# 541
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

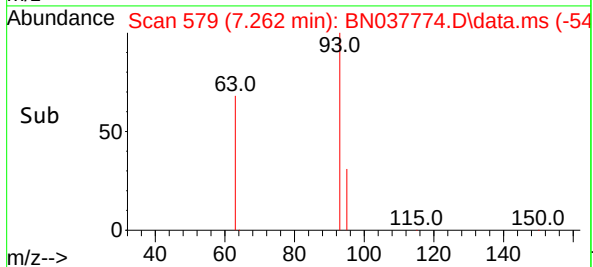
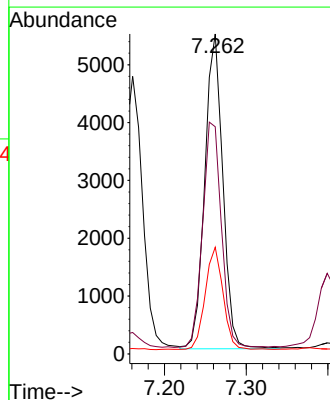
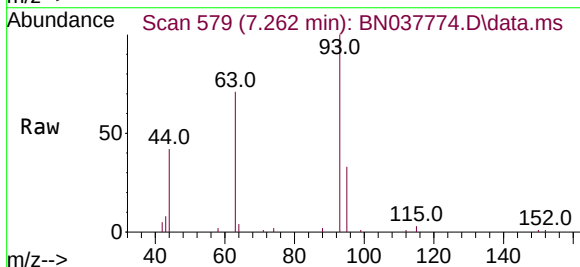
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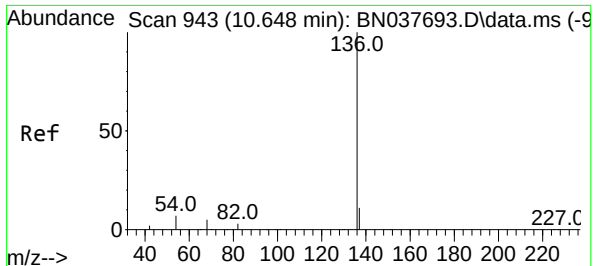
Tgt Ion: 99 Resp: 9149
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 32.0 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.262 min Scan# 579
Delta R.T. 0.007 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion: 93 Resp: 8348
Ion Ratio Lower Upper
93 100
63 74.1 60.6 90.8
95 32.0 26.0 39.0

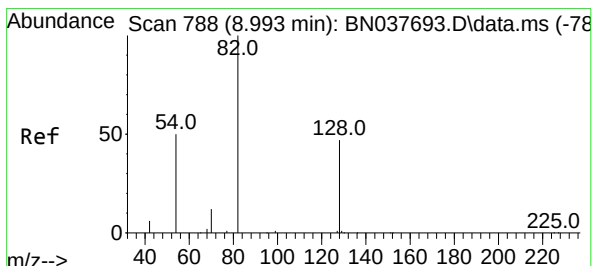
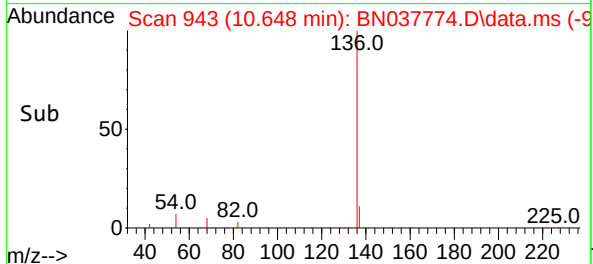
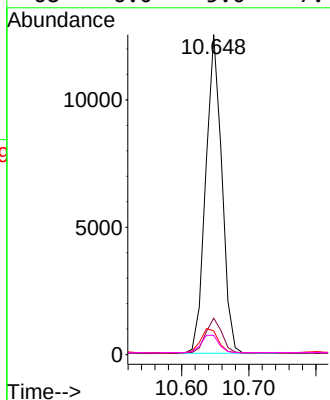
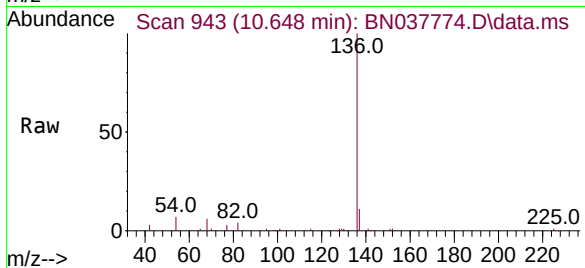




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

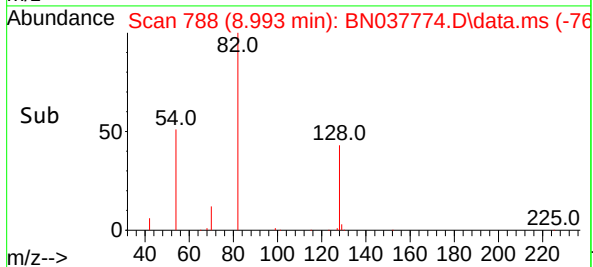
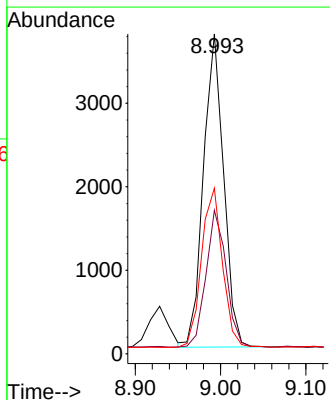
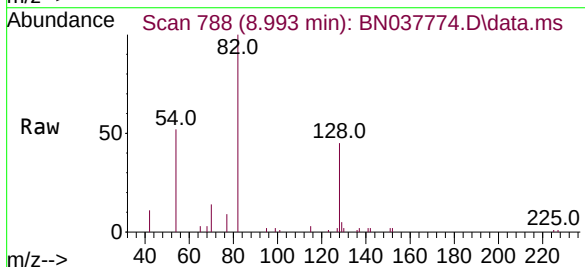
Instrument :
BNA_N
ClientSampleId :
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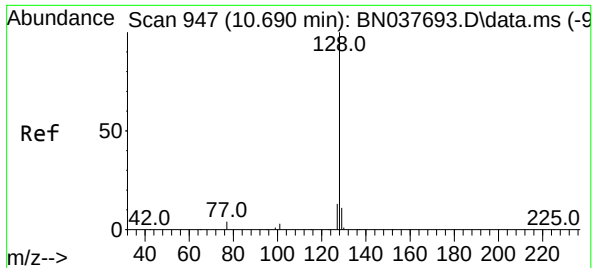
Tgt Ion:	136	Resp:	20894
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.1	13.7
54	7.4	6.3	9.5
68	6.0	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:	82	Resp:	6183
Ion Ratio	Lower	Upper	
82	100		
128	44.9	38.3	57.5
54	51.8	41.4	62.2

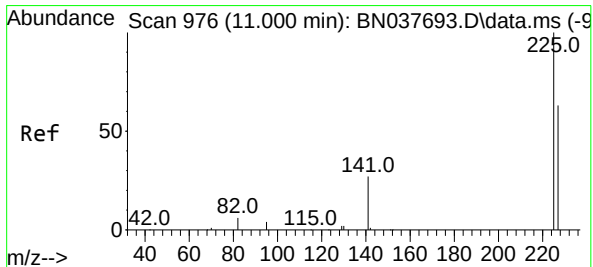
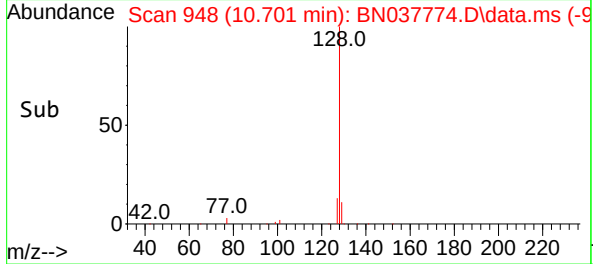
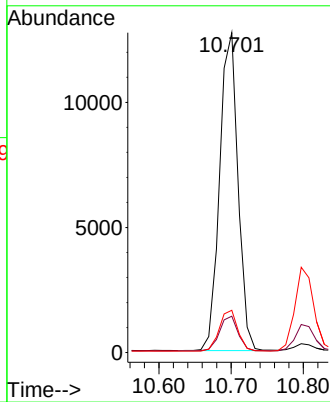
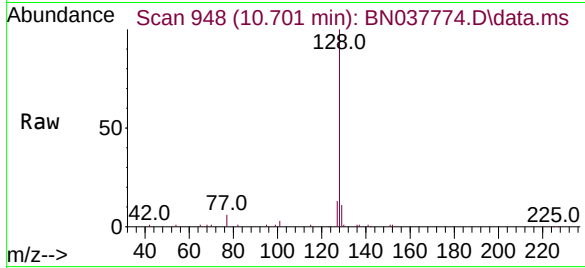




#9
Naphthalene
Concen: 0.395 ng
RT: 10.701 min Scan# 948
Delta R.T. 0.011 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

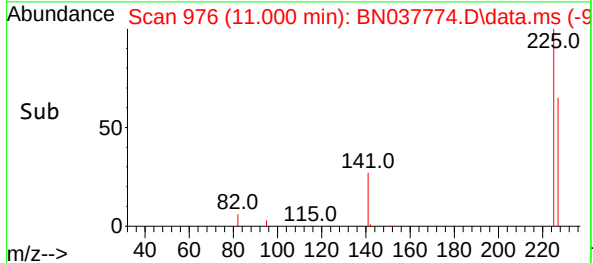
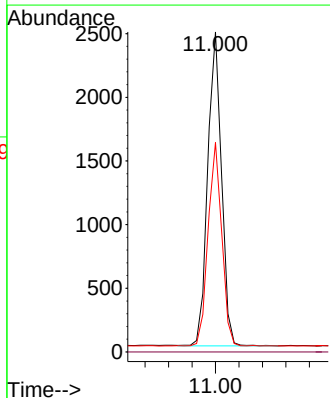
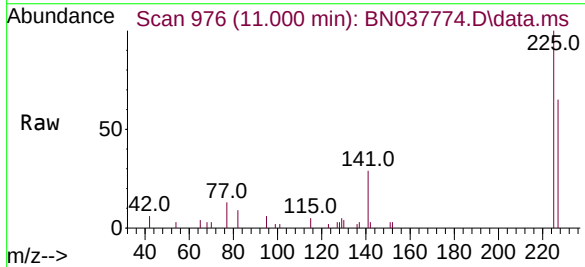
Instrument :
BNA_N
ClientSampleId :
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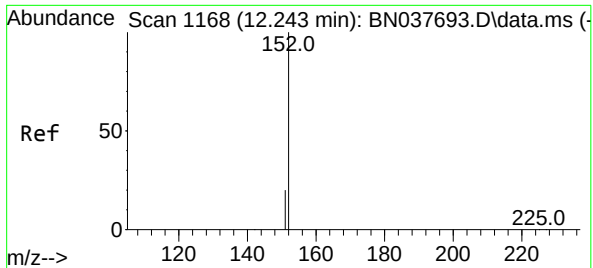
Tgt Ion:	128	Resp:	22536
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.1	13.7
127	13.2	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:	225	Resp:	4013
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.4	50.9	76.3

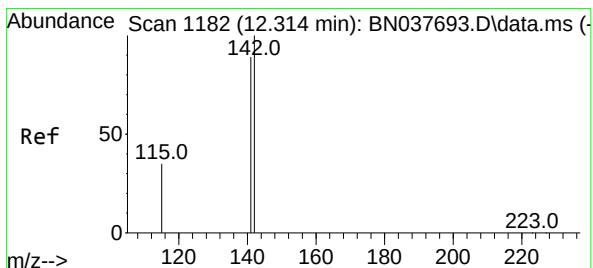
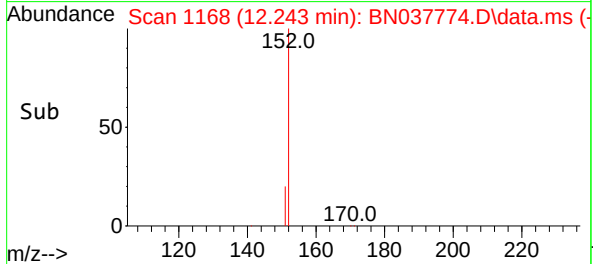
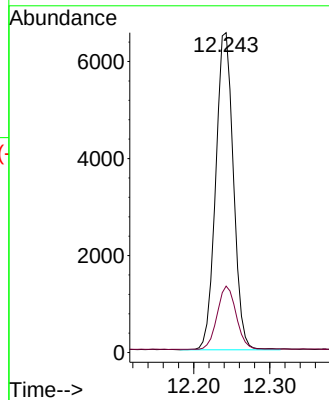
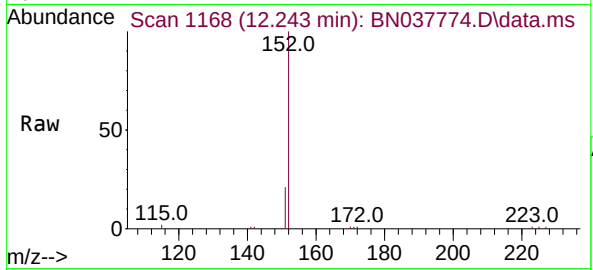




#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

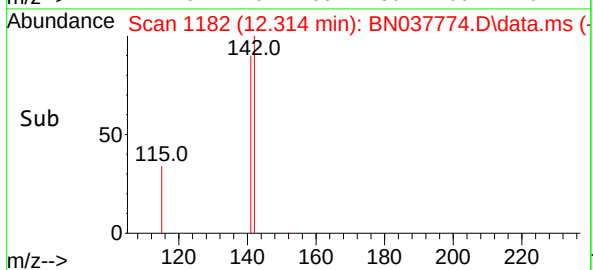
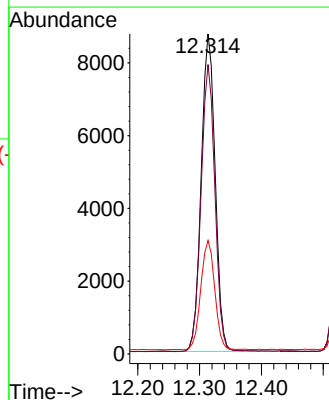
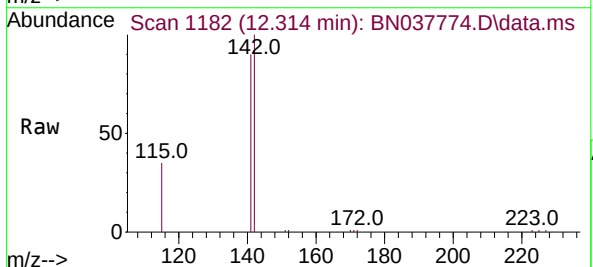
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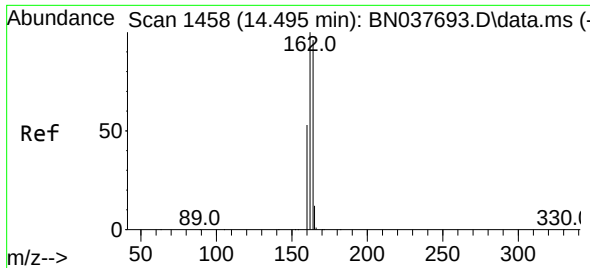
Tgt Ion:152 Resp: 10579
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:142 Resp: 13704
Ion Ratio Lower Upper
142 100
141 90.4 71.6 107.4
115 35.4 28.6 43.0

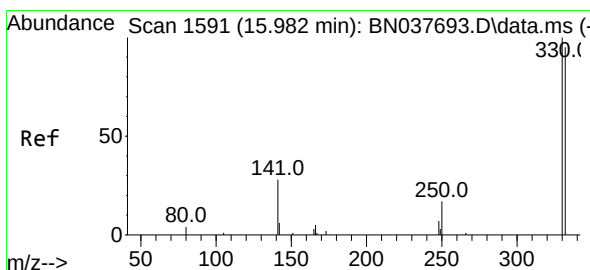
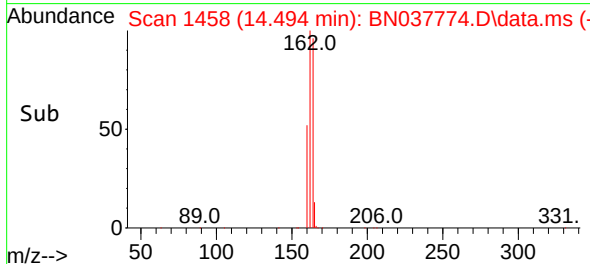
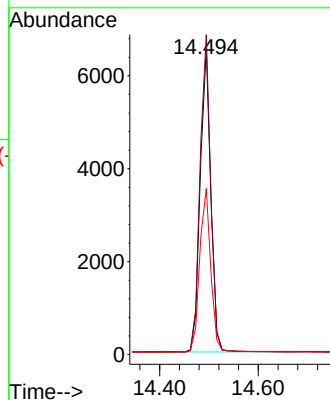
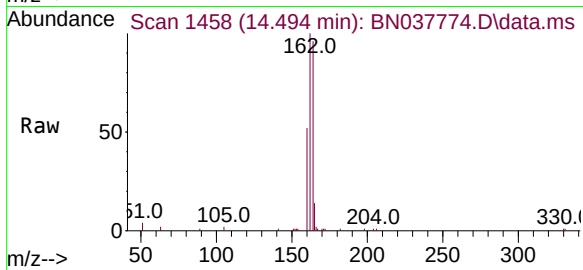




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

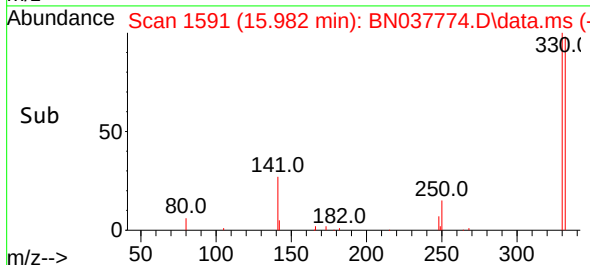
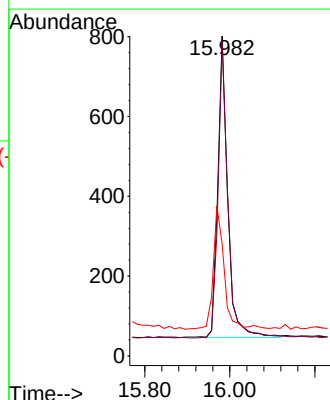
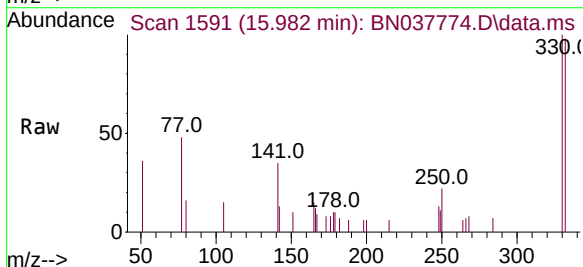
Instrument :
BNA_N
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SSTDCCC0.4EC

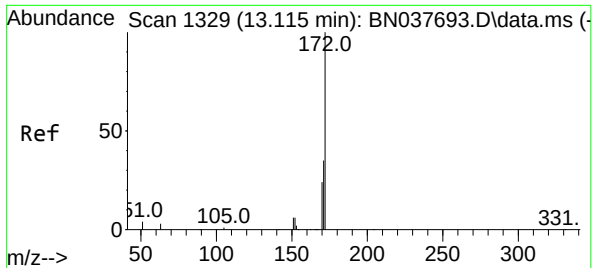
Tgt Ion:164 Resp: 9741
Ion Ratio Lower Upper
164 100
162 104.5 83.1 124.7
160 54.2 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.485 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:330 Resp: 1232
Ion Ratio Lower Upper
330 100
332 97.6 75.3 112.9
141 43.4 35.0 52.4

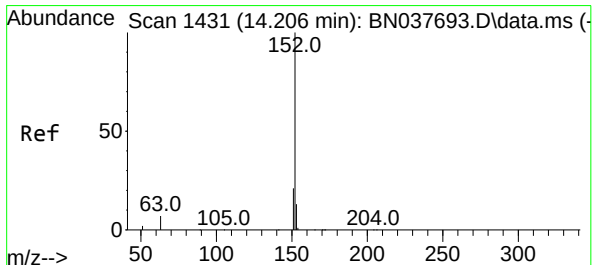
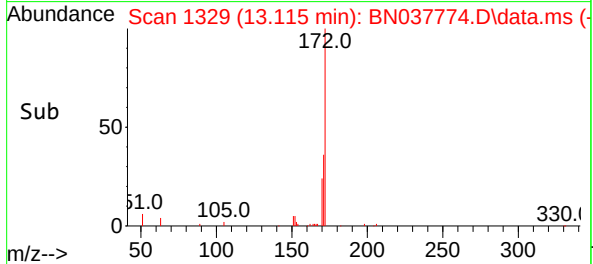
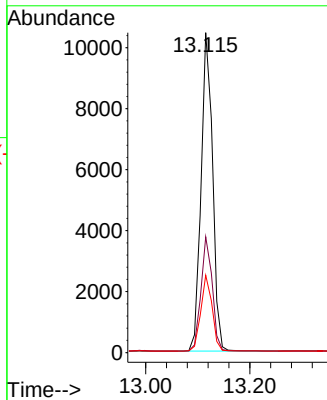
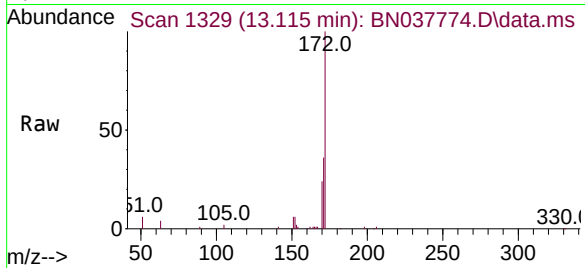




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

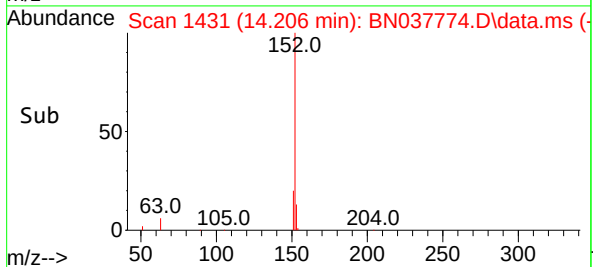
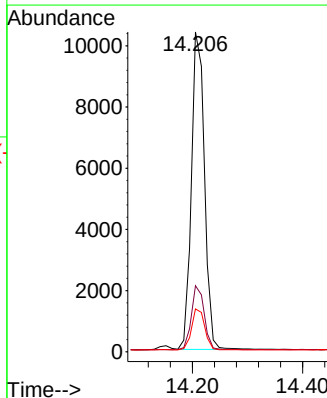
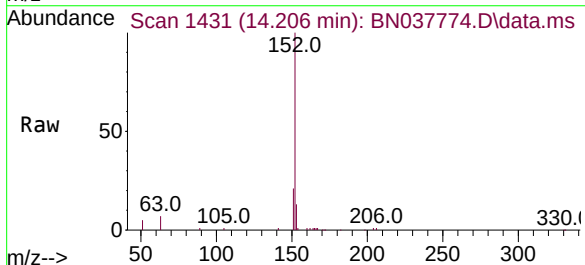
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

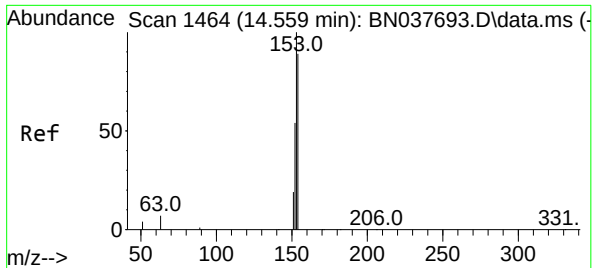
Tgt Ion:	172	Resp:	16033
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:	152	Resp:	16996
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6

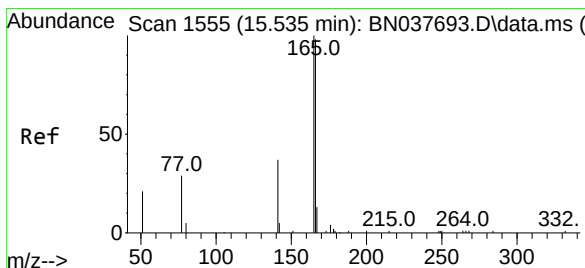
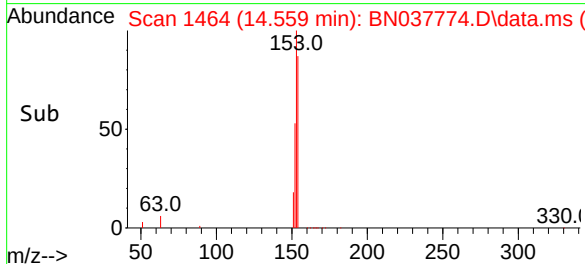
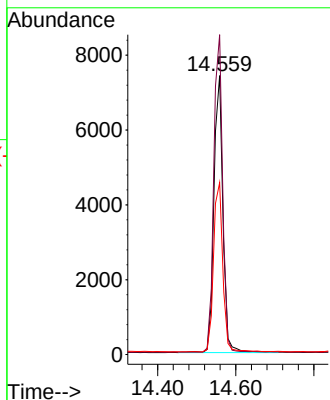
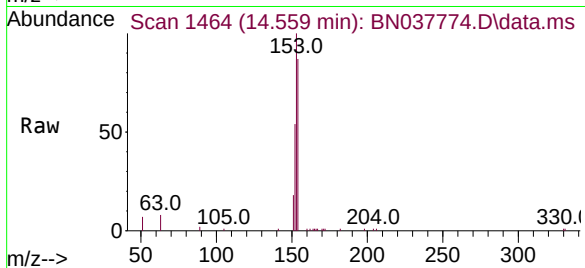




#17
Acenaphthene
Concen: 0.391 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

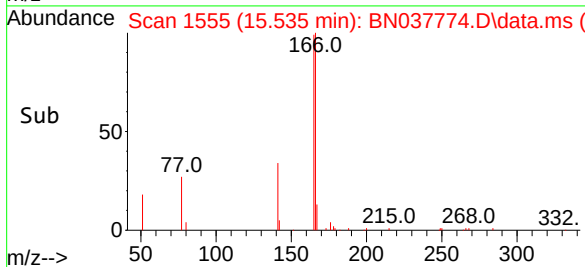
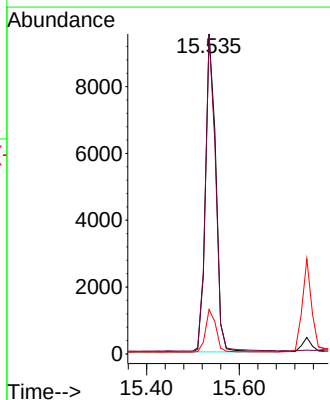
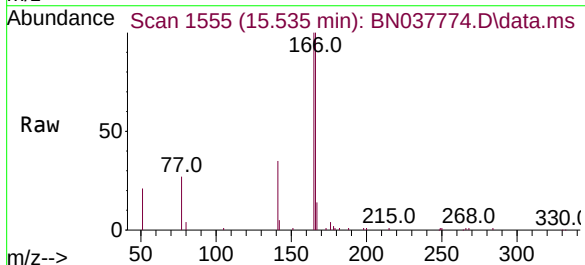
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

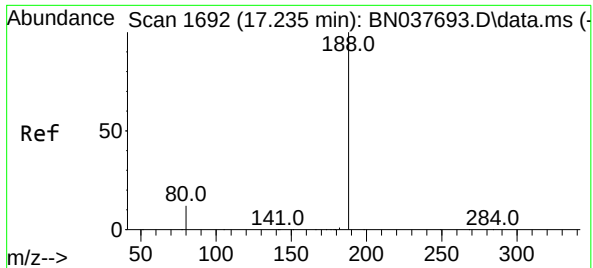
Tgt Ion	154	Resp	11822
Ion Ratio	Lower	Upper	
154	100		
153	113.9	89.8	134.8
152	63.1	50.2	75.2



#18
Fluorene
Concen: 0.388 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	166	Resp	14211
Ion Ratio	Lower	Upper	
166	100		
165	99.7	79.6	119.4
167	13.7	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

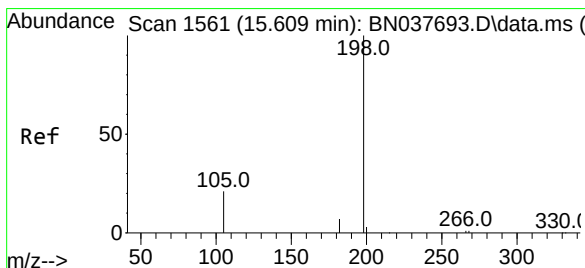
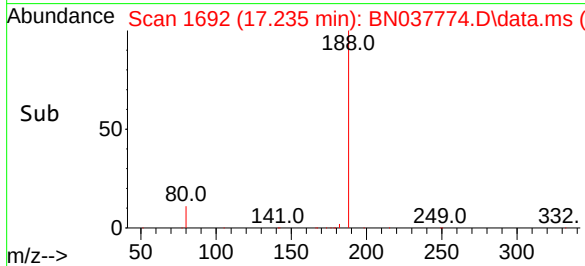
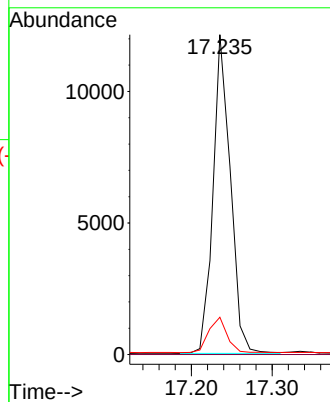
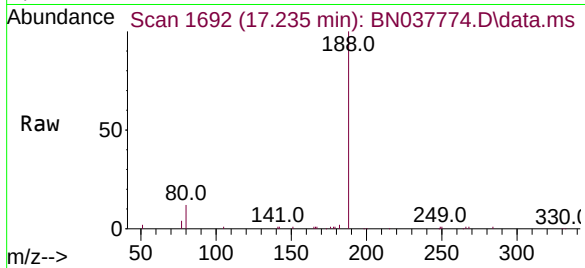
Tgt Ion:188 Resp: 18065

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.399 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

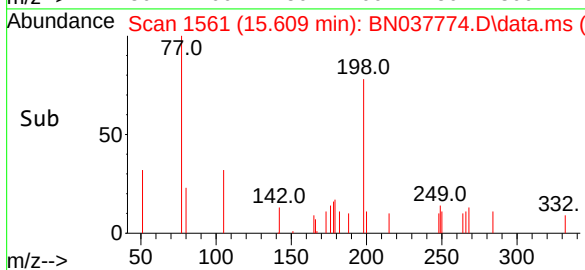
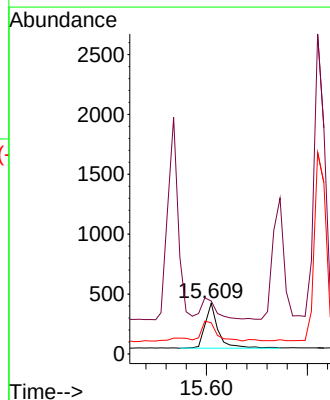
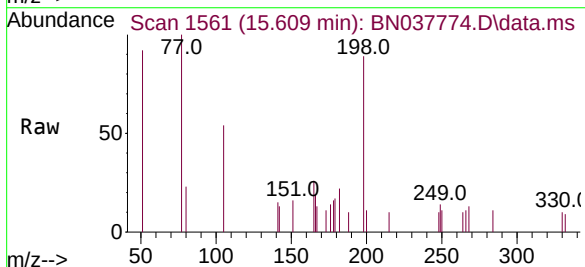
Tgt Ion:198 Resp: 668

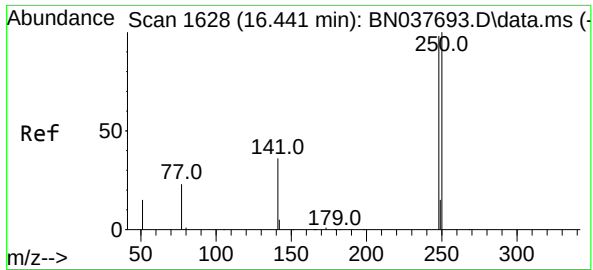
Ion Ratio Lower Upper

198 100

51 104.0 95.1 142.7

105 61.2 53.8 80.6

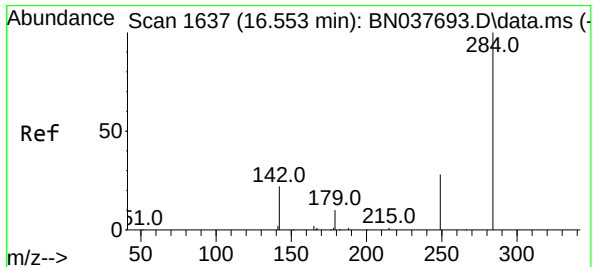
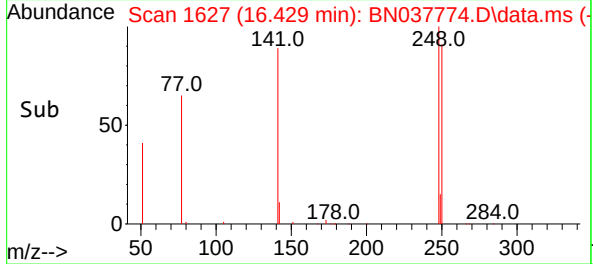
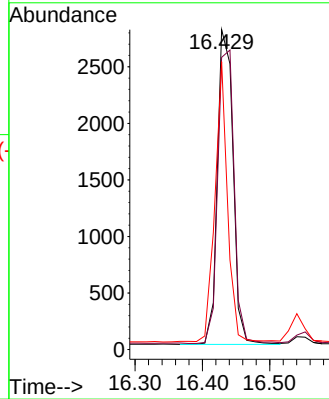
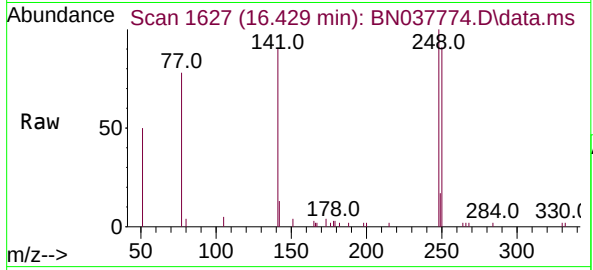




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

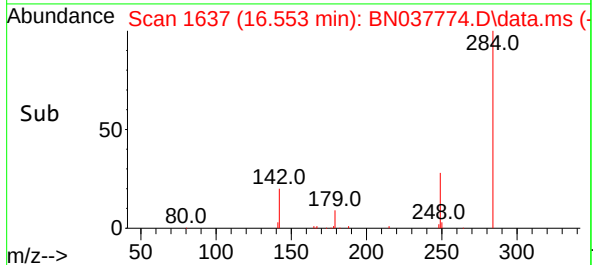
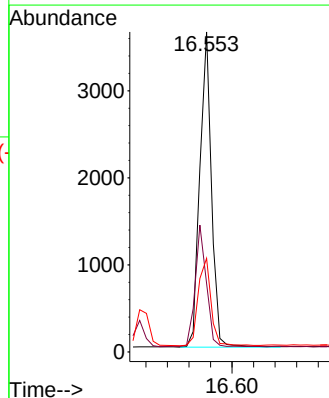
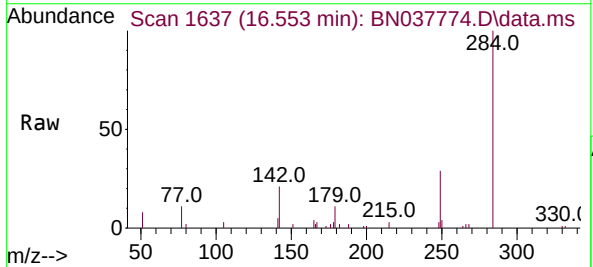
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

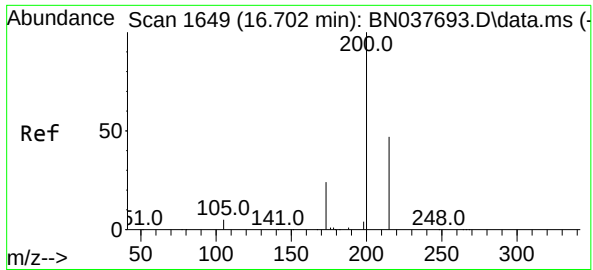
Tgt Ion:248 Resp: 4506
Ion Ratio Lower Upper
248 100
250 91.3 81.5 122.3
141 90.0 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.400 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:284 Resp: 5415
Ion Ratio Lower Upper
284 100
142 37.4 30.9 46.3
249 30.2 24.8 37.2

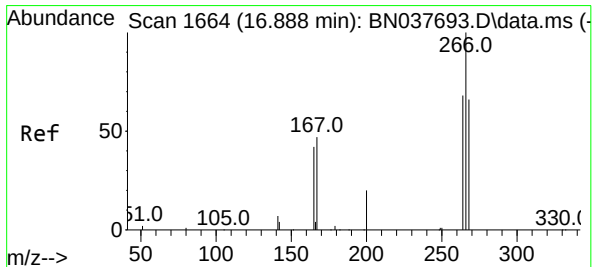
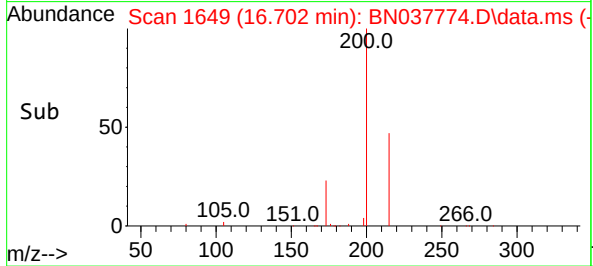
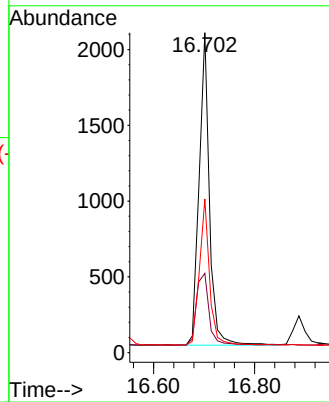
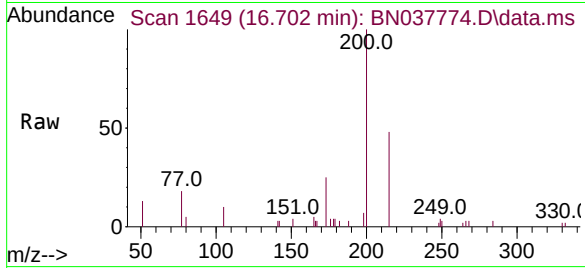




#23
Atrazine
Concen: 0.389 ng
RT: 16.702 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

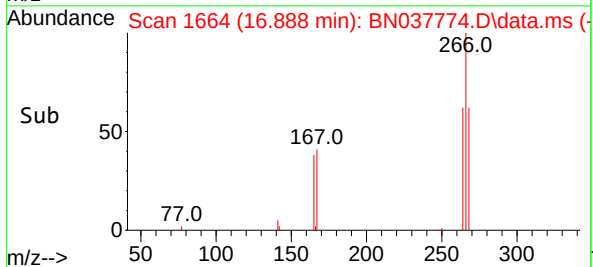
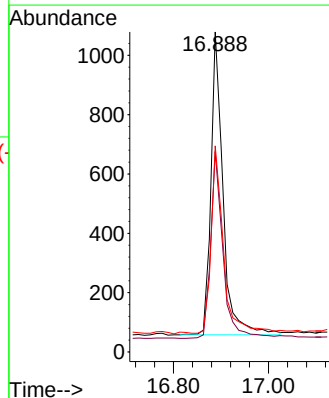
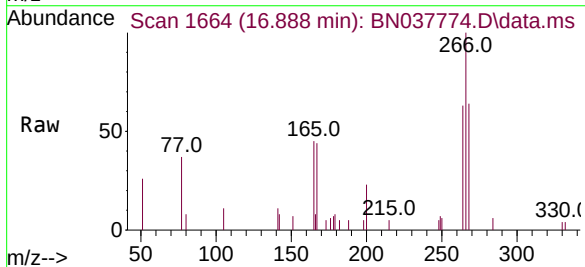
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

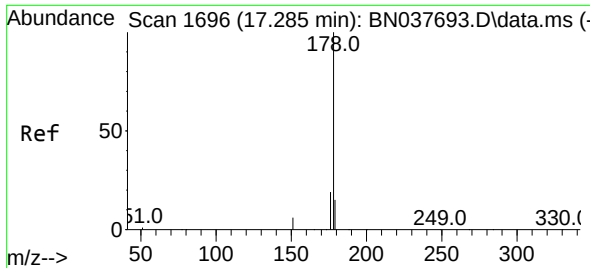
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.8	21.4	32.2
215	48.0	39.2	58.8



#24
Pentachlorophenol
Concen: 0.457 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.0	51.6	77.4
268	63.9	53.2	79.8

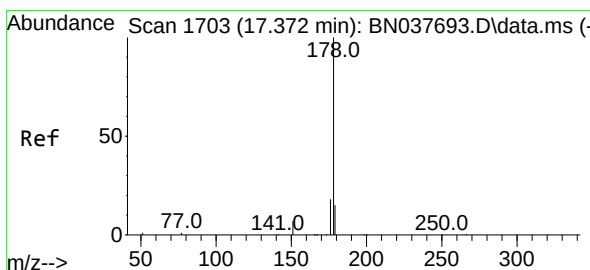
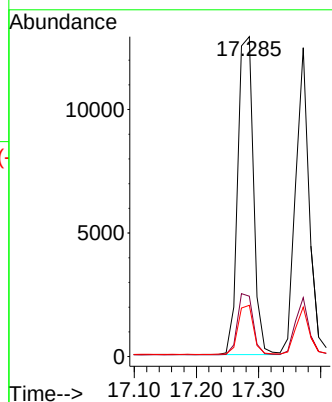
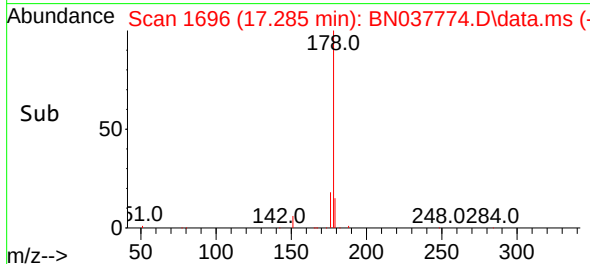
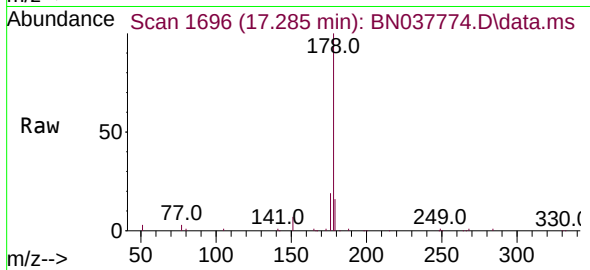




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

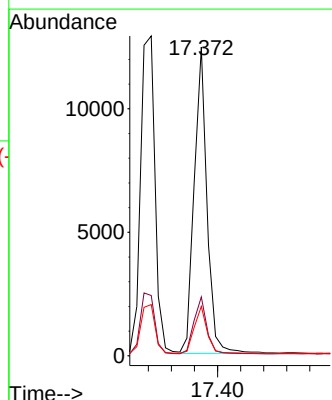
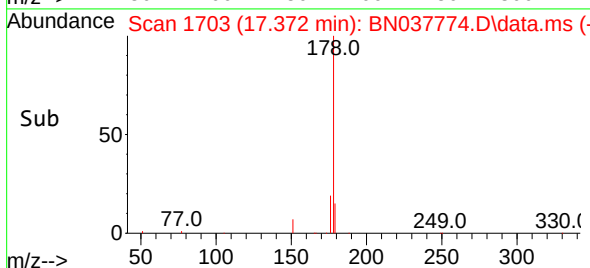
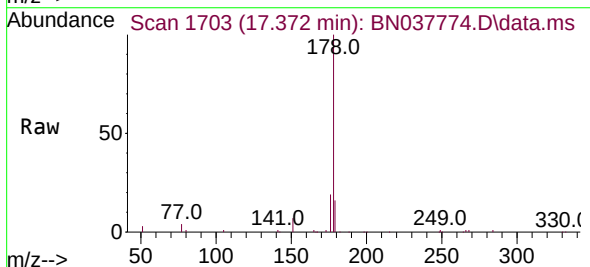
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

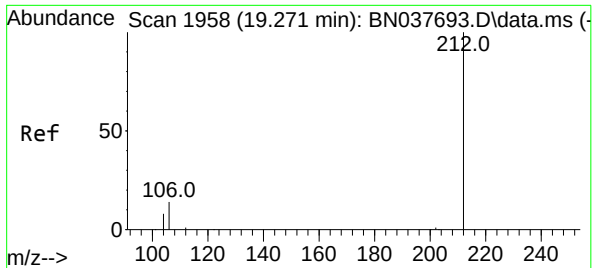
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.2	18.2



#26
Anthracene
Concen: 0.379 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.4	12.2	18.4

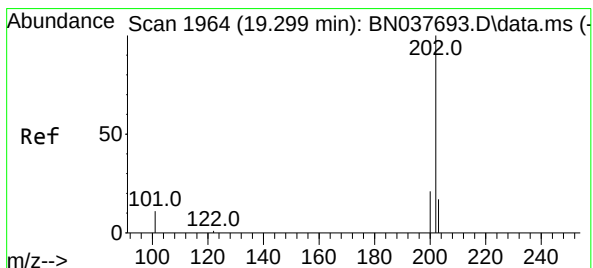
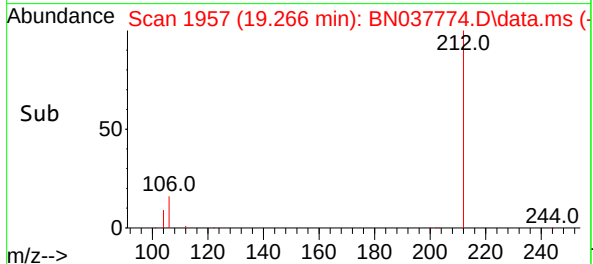
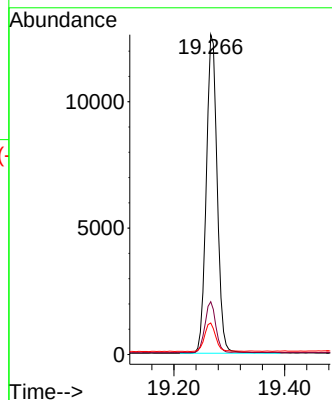
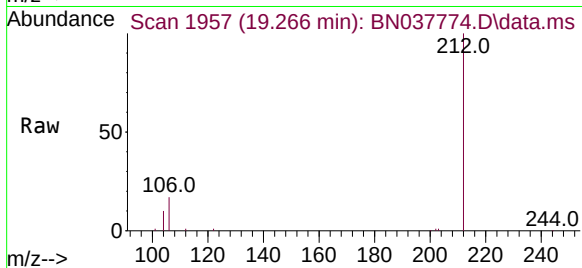




#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

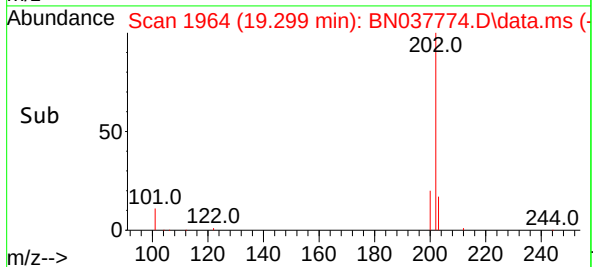
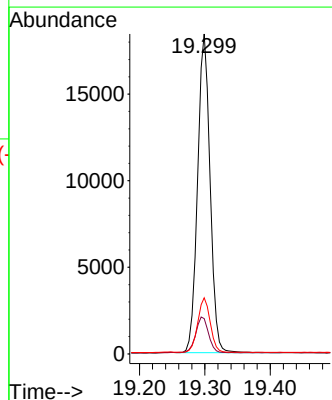
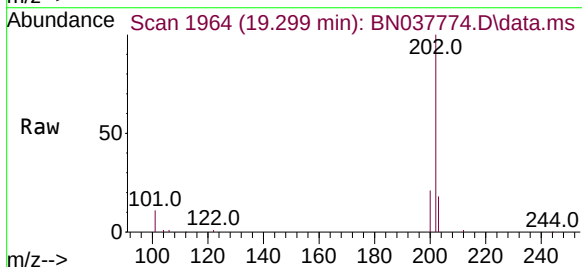
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

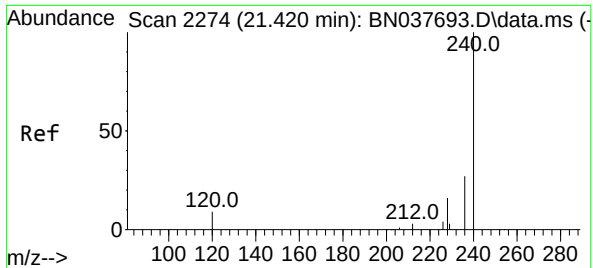
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.2	6.9	10.3



#28
Fluoranthene
Concen: 0.390 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5

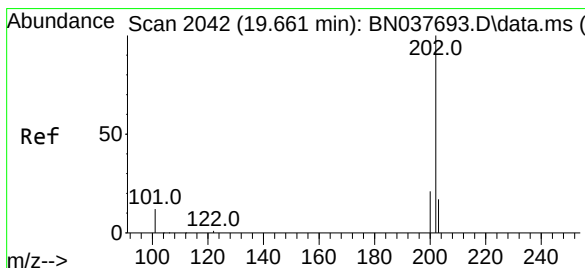
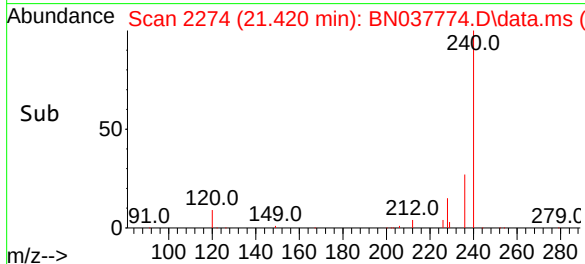
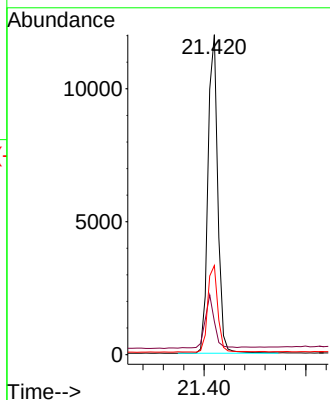
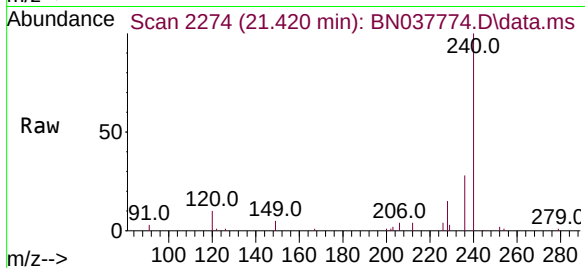




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

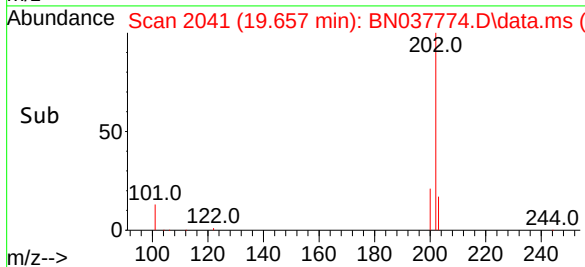
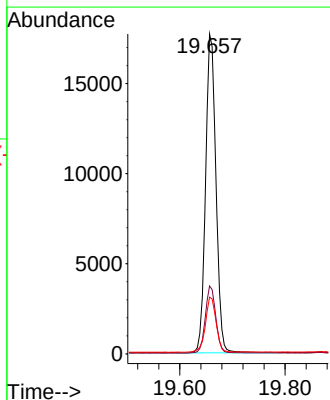
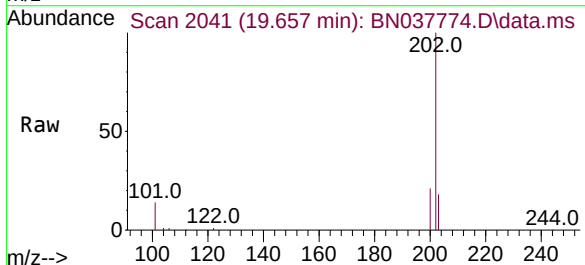
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

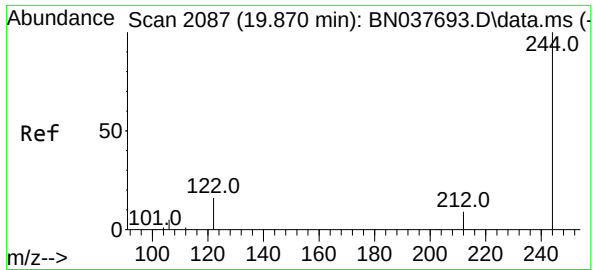
Tgt Ion:240 Resp: 16005
Ion Ratio Lower Upper
240 100
120 10.4 9.2 13.8
236 27.8 22.6 33.8



#30
Pyrene
Concen: 0.387 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:202 Resp: 24230
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.7 14.3 21.5

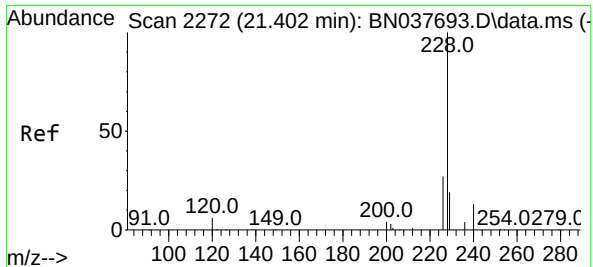
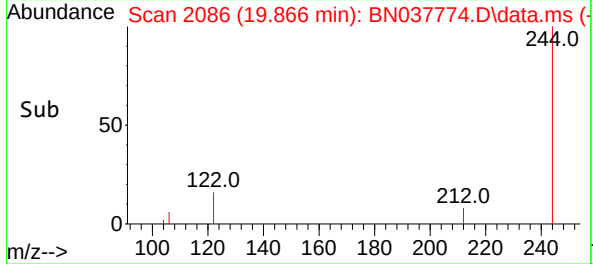
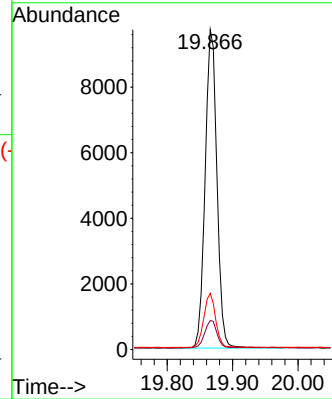
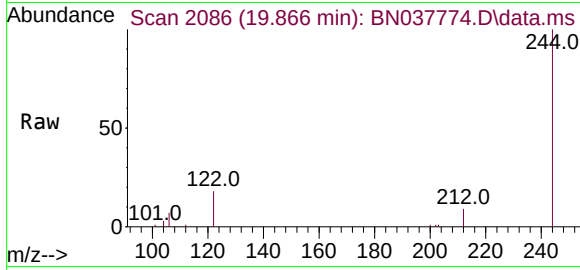




#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

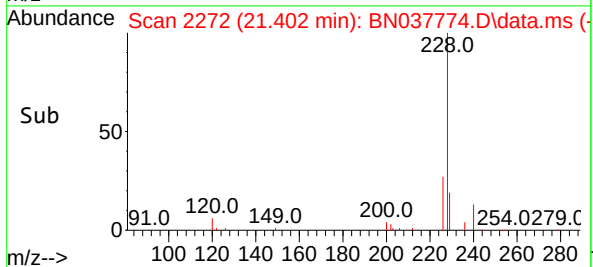
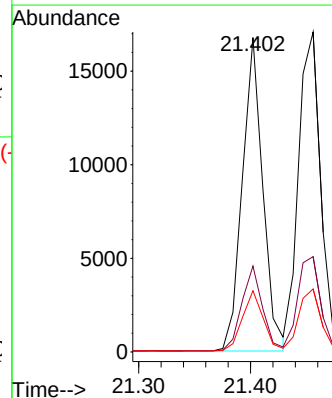
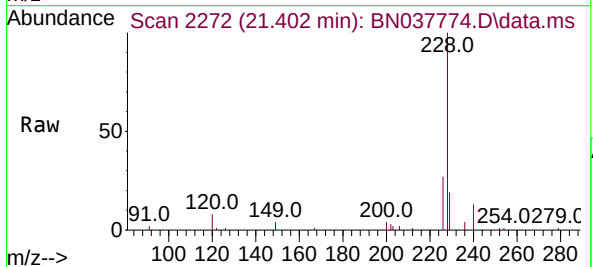
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

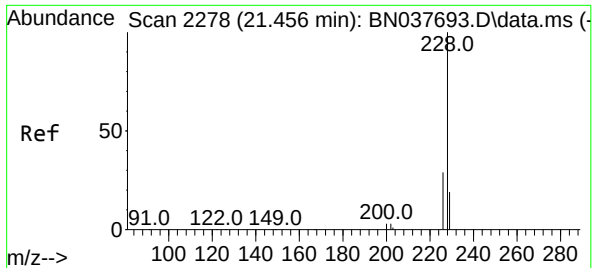
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.5	11.3
122	17.6	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.2	33.2
229	19.5	15.8	23.6

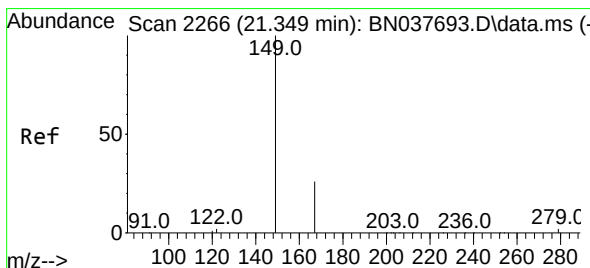
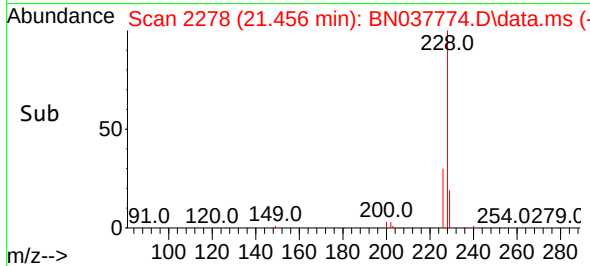
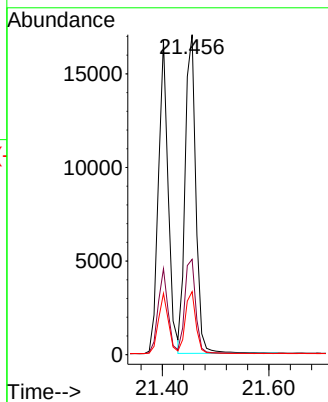
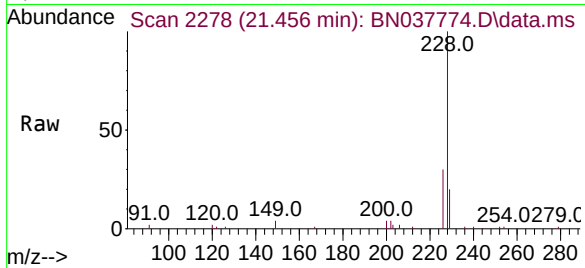




#33
Chrysene
Concen: 0.397 ng
RT: 21.456 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

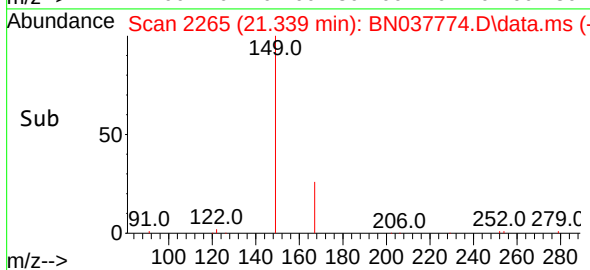
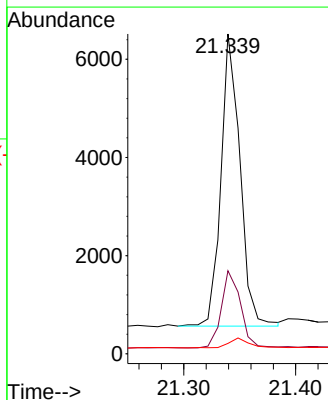
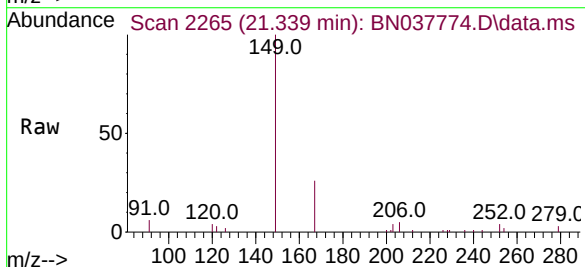
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

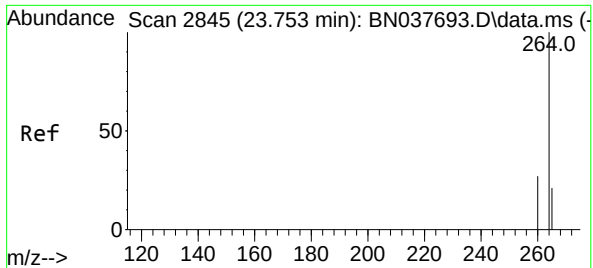
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.5	35.3
229	19.7	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.424 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

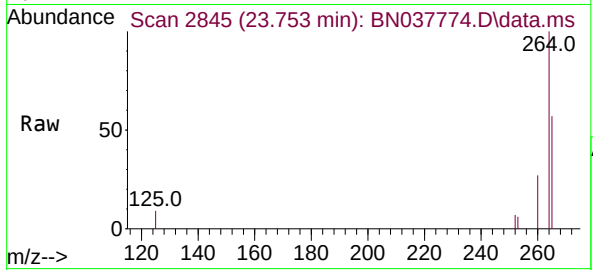
Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.8	31.2
279	3.7	3.3	4.9



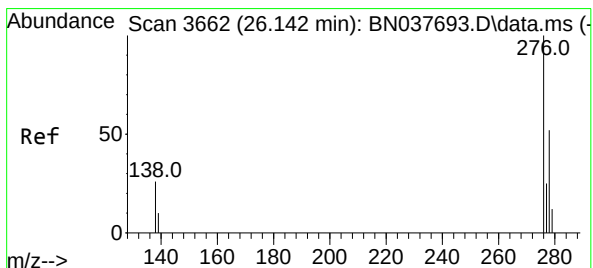
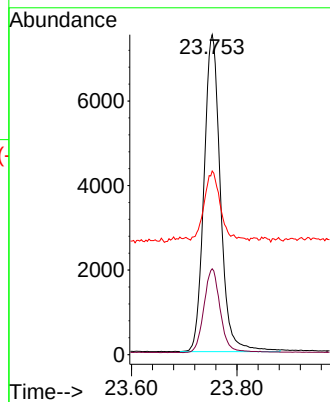
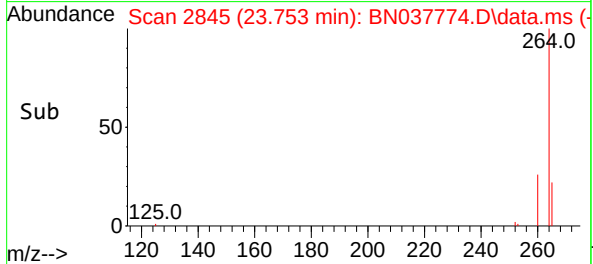


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 2845
Delta R.T. -0.000 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

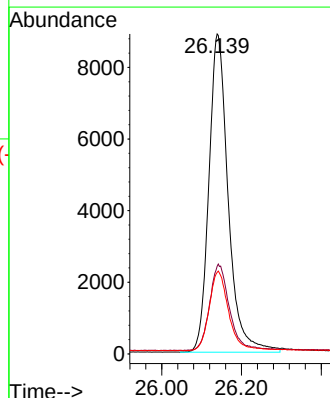
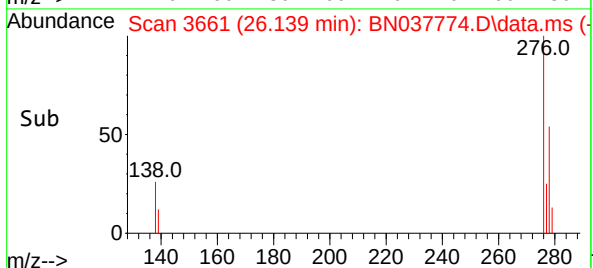
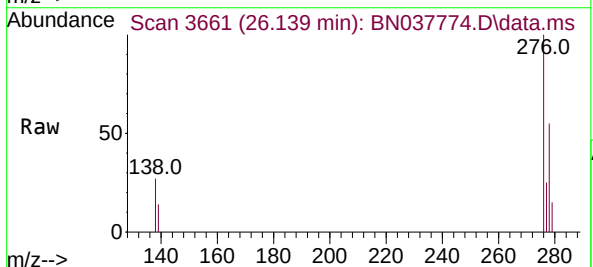


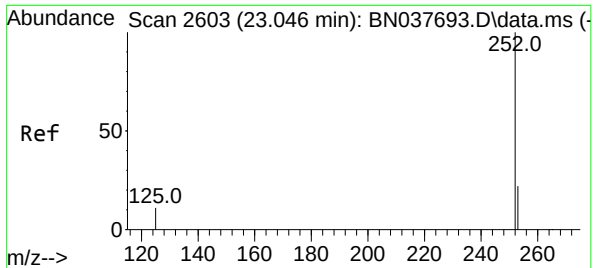
Tgt Ion:264 Resp: 16216
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 57.4 39.4 59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.438 ng
RT: 26.139 min Scan# 3661
Delta R.T. -0.003 min
Lab File: BN037774.D
Acq: 18 Sep 2025 13:16

Tgt Ion:276 Resp: 29869
Ion Ratio Lower Upper
276 100
138 27.3 21.9 32.9
277 25.0 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.046 min Scan# 2603

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

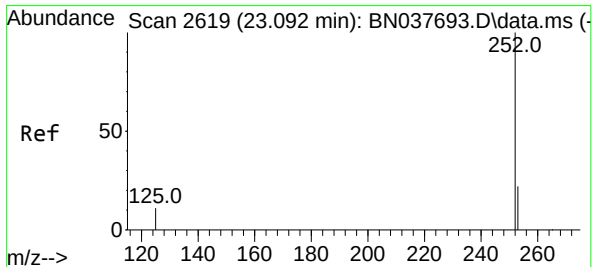
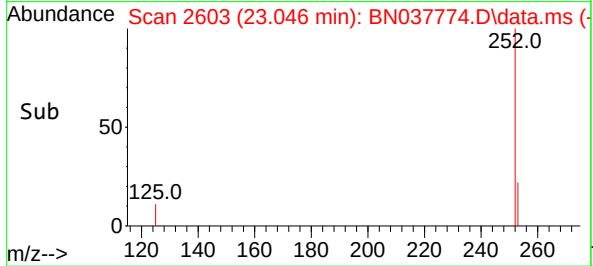
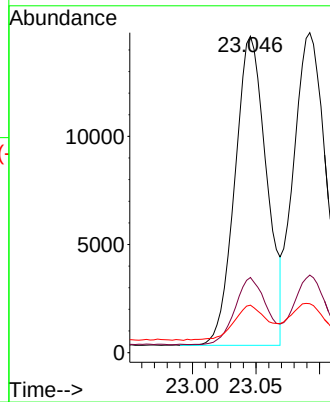
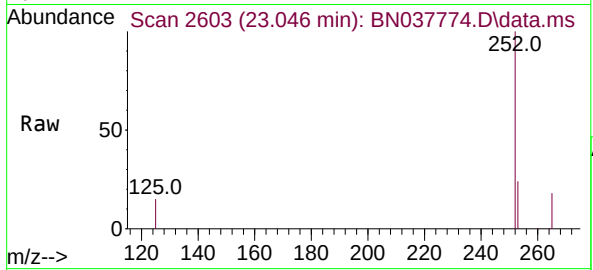
Tgt Ion:252 Resp: 24782

Ion Ratio Lower Upper

252 100

253 23.7 19.4 29.2

125 15.0 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 23.092 min Scan# 2619

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

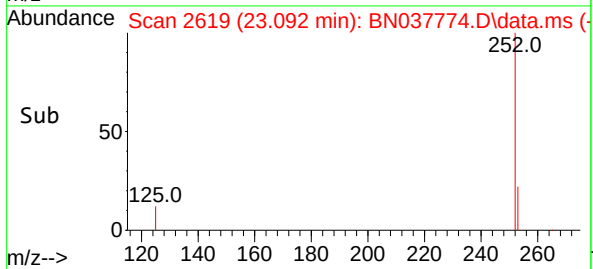
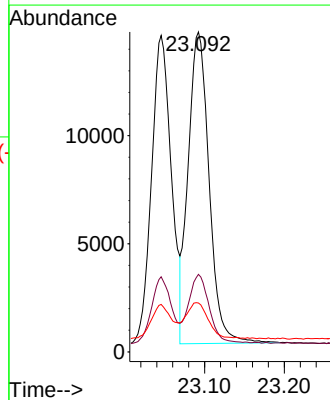
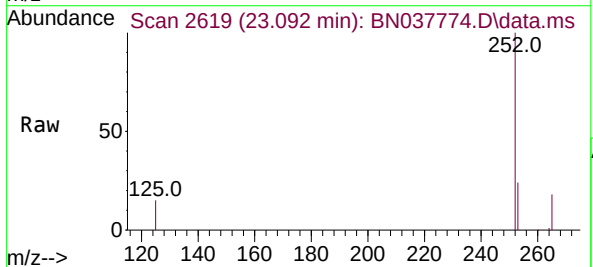
Tgt Ion:252 Resp: 26275

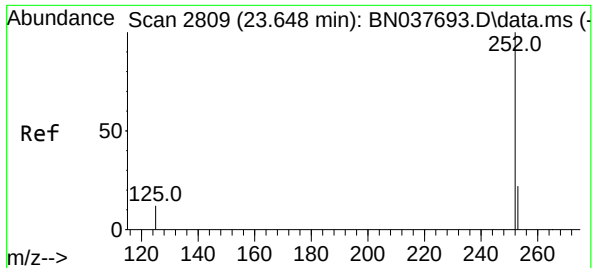
Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 15.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.648 min Scan# 2809

Delta R.T. -0.000 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

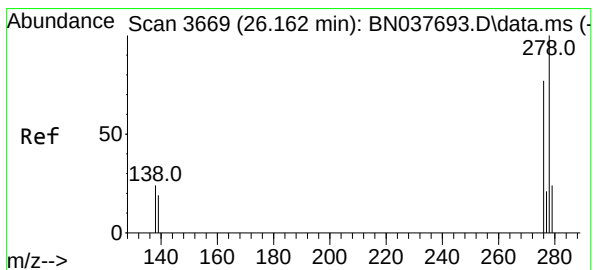
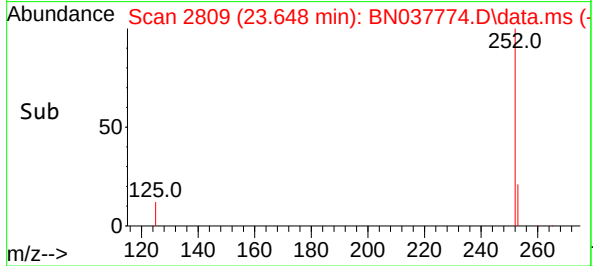
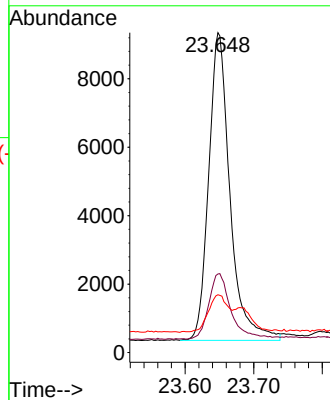
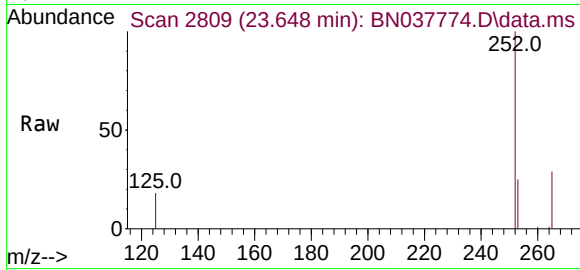
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	252	Resp:	19411
Ion Ratio	Lower	Upper	
252	100		
253	24.6	20.8	31.2
125	18.1	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.442 ng

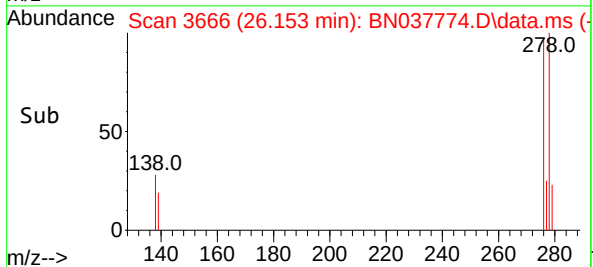
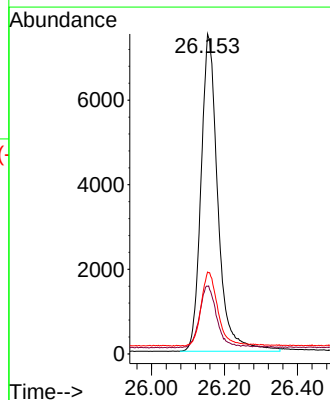
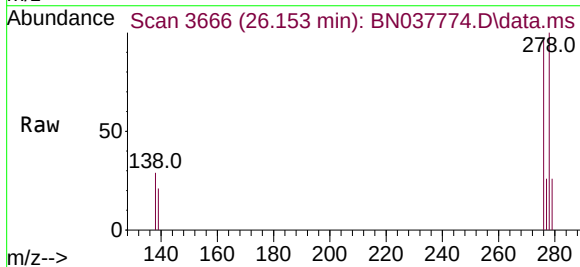
RT: 26.153 min Scan# 3666

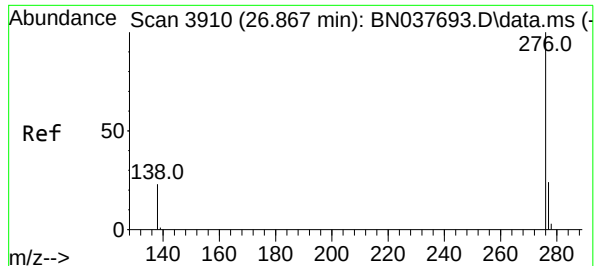
Delta R.T. -0.009 min

Lab File: BN037774.D

Acq: 18 Sep 2025 13:16

Tgt Ion:	278	Resp:	24050
Ion Ratio	Lower	Upper	
278	100		
139	21.1	17.8	26.6
279	25.6	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 26.867 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN037774.D

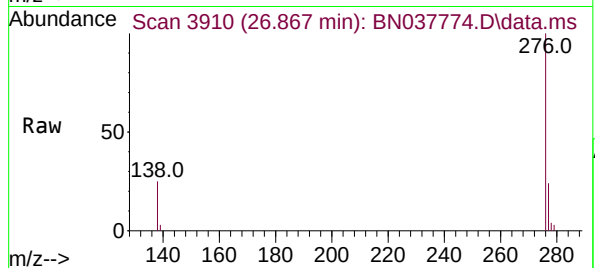
Acq: 18 Sep 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



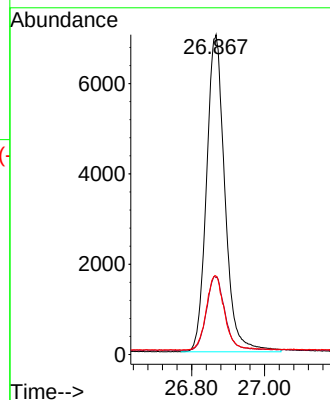
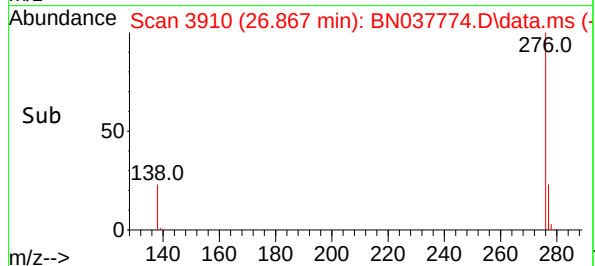
Tgt Ion:276 Resp: 24546

Ion Ratio Lower Upper

276 100

277 24.0 20.6 31.0

138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
 Data File : BN037774.D
 Acq On : 18 Sep 2025 13:16
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 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	158#	0.00
2	1,4-Dioxane	0.417	0.425	-1.9	159#	0.00
3	n-Nitrosodimethylamine	0.544	0.518	4.8	145	0.00
4 S	2-Fluorophenol	0.918	0.915	0.3	162#	0.00
5 S	Phenol-d6	1.191	1.160	2.6	159#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.058	0.6	156#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	158#	0.00
8 S	Nitrobenzene-d5	0.293	0.296	-1.0	164#	0.00
9	Naphthalene	1.093	1.079	1.3	158#	0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	153#	0.00
11 SURR	2-Methylnaphthalene-d10	0.530	0.506	4.5	160#	0.00
12	2-Methylnaphthalene	0.676	0.656	3.0	157#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	157#	0.00
14 S	2,4,6-Tribromophenol	0.104	0.126	-21.2	197#	0.00
15 S	2-Fluorobiphenyl	1.673	1.646	1.6	157#	0.00
16	Acenaphthylene	1.834	1.745	4.9	154#	0.00
17	Acenaphthene	1.240	1.214	2.1	157#	0.00
18	Fluorene	1.502	1.459	2.9	159#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	160#	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.037	0.0	180#	0.00
21	4-Bromophenyl-phenylether	0.261	0.249	4.6	159#	-0.01
22	Hexachlorobenzene	0.300	0.300	0.0	163#	0.00
23	Atrazine	0.166	0.161	3.0	171#	0.00
24	Pentachlorophenol	0.087	0.099	-13.8	214#	0.00
25	Phenanthrene	1.259	1.243	1.3	163#	0.00
26	Anthracene	1.116	1.057	5.3	158#	0.00
27 SURR	Fluoranthene-d10	1.004	0.949	5.5	163#	0.00
28	Fluoranthene	1.381	1.347	2.5	165#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	171#	0.00
30	Pyrene	1.566	1.514	3.3	166#	0.00
31 S	Terphenyl-d14	0.812	0.758	6.7	162#	0.00
32	Benzo(a)anthracene	1.395	1.333	4.4	169#	0.00
33	Chrysene	1.496	1.486	0.7	170#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.438	-5.8	199#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	181#	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.842	-9.6	216#	0.00
37	Benzo(b)fluoranthene	1.575	1.528	3.0	178#	0.00
38	Benzo(k)fluoranthene	1.606	1.620	-0.9	192#	0.00
39 C	Benzo(a)pyrene	1.261	1.197	5.1	180#	0.00
40	Dibenzo(a,h)anthracene	1.342	1.483	-10.5	222#	0.00
41	Benzo(g,h,i)perylene	1.506	1.514	-0.5	189#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037774.D
Acq On : 18 Sep 2025 13:16
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 13:43:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	158	0.00
2	1,4-Dioxane	0.400	0.408	-2.0	159	0.00
3	n-Nitrosodimethylamine	0.400	0.381	4.8	145	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	162	0.00
5 S	Phenol-d6	0.400	0.390	2.5	159	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	156	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	158	0.00
8 S	Nitrobenzene-d5	0.400	0.405	-1.3	164	0.00
9	Naphthalene	0.400	0.395	1.3	158	0.01
10	Hexachlorobutadiene	0.400	0.388	3.0	153	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.382	4.5	160	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	157	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	157	0.00
14 S	2,4,6-Tribromophenol	0.400	0.485	-21.2	197	0.00
15 S	2-Fluorobiphenyl	0.400	0.394	1.5	157	0.00
16	Acenaphthylene	0.400	0.380	5.0	154	0.00
17	Acenaphthene	0.400	0.391	2.3	157	0.00
18	Fluorene	0.400	0.388	3.0	159	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	160	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.399	0.3	180	0.00
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	159	-0.01
22	Hexachlorobenzene	0.400	0.400	0.0	163	0.00
23	Atrazine	0.400	0.389	2.8	171	0.00
24	Pentachlorophenol	0.400	0.457	-14.2	214	0.00
25	Phenanthrene	0.400	0.395	1.3	163	0.00
26	Anthracene	0.400	0.379	5.3	158	0.00
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	163	0.00
28	Fluoranthene	0.400	0.390	2.5	165	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	171	0.00
30	Pyrene	0.400	0.387	3.3	166	0.00
31 S	Terphenyl-d14	0.400	0.373	6.8	162	0.00
32	Benzo(a)anthracene	0.400	0.382	4.5	169	0.00
33	Chrysene	0.400	0.397	0.8	170	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.424	-6.0	199	0.00
35 I	Perylene-d12	0.400	0.400	0.0	181	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	216	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	178	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	192	0.00
39 C	Benzo(a)pyrene	0.400	0.380	5.0	180	0.00
40	Dibenzo(a,h)anthracene	0.400	0.442	-10.5	222	0.00
41	Benzo(g,h,i)perylene	0.400	0.402	-0.5	189	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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/18/2025 14:32
 Lab File ID: BN037776.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	20.0
Fluoranthene-d10	1.004	0.839		-16.4	20.0
2-Fluorophenol	0.918	0.890		-3.0	20.0
Phenol-d6	1.191	1.130		-5.1	20.0
Nitrobenzene-d5	0.293	0.298		1.7	20.0
2-Fluorobiphenyl	1.673	1.679		0.4	20.0
2,4,6-Tribromophenol	0.104	0.114		9.6	20.0
Terphenyl-d14	0.812	0.801		-1.4	20.0
1,4-Dioxane	0.417	0.428		2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037776.D
 Acq On : 18 Sep 2025 14:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

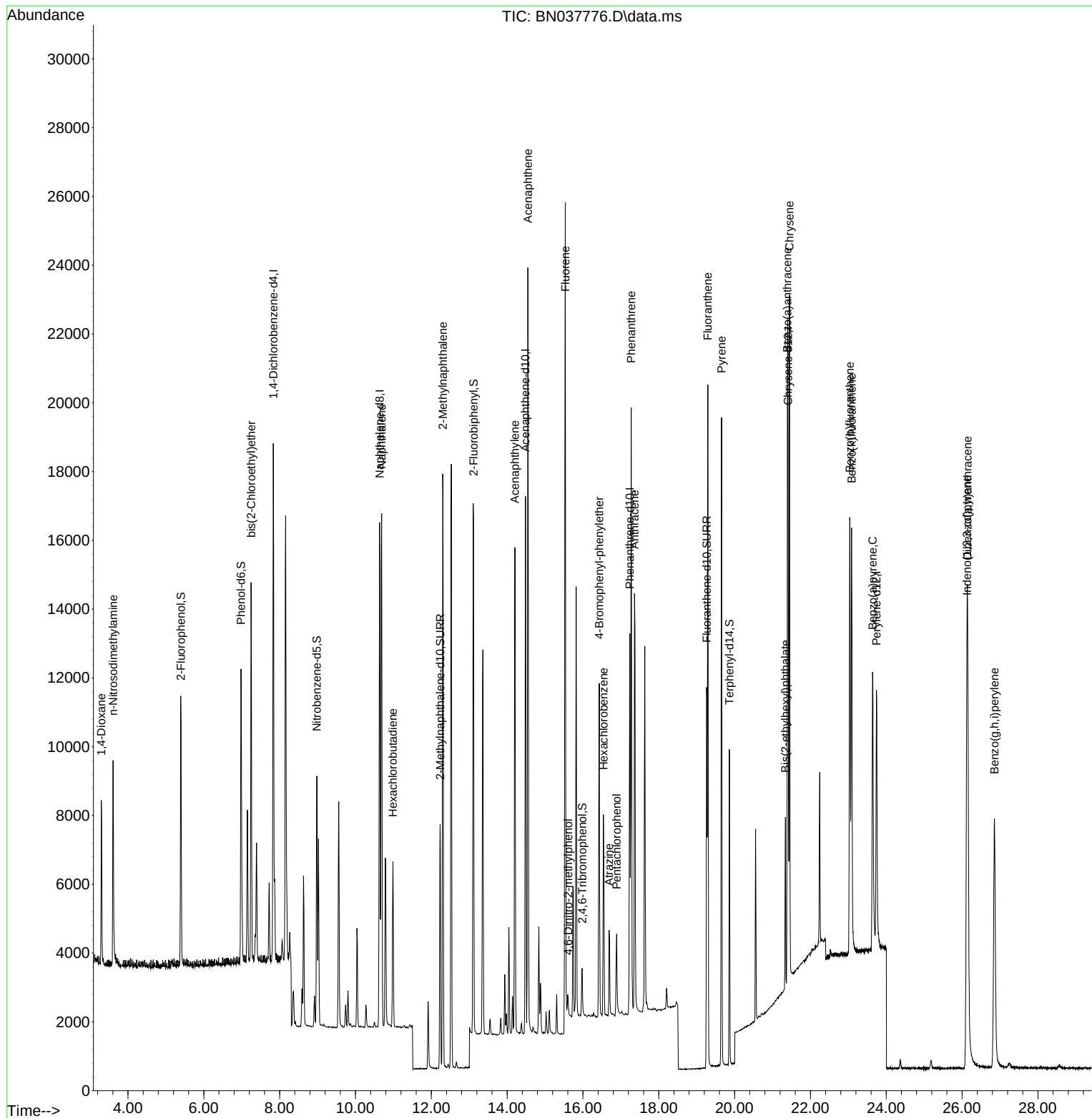
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7127	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	18984	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8698	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14526	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10438	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	10600	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	6346	0.388	ng	0.00
5) Phenol-d6	6.980	99	8055	0.380	ng	0.00
8) Nitrobenzene-d5	8.982	82	5651	0.407	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9430	0.375	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	988	0.436	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	14602	0.401	ng	0.00
27) Fluoranthene-d10	19.262	212	12188	0.334	ng	0.00
31) Terphenyl-d14	19.861	244	8356	0.394	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.297	88	3048	0.411	ng	94
3) n-Nitrosodimethylamine	3.608	42	3658	0.377	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	7546	0.398	ng	100
9) Naphthalene	10.690	128	20305	0.391	ng	99
10) Hexachlorobutadiene	10.989	225	3759	0.400	ng	# 100
12) 2-Methylnaphthalene	12.303	142	12427	0.387	ng	99
16) Acenaphthylene	14.206	152	15171	0.380	ng	100
17) Acenaphthene	14.548	154	10490	0.389	ng	97
18) Fluorene	15.535	166	12152	0.372	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	454	0.337	ng	96
21) 4-Bromophenyl-phenylether	16.429	248	3832	0.405	ng	# 86
22) Hexachlorobenzene	16.540	284	4737	0.435	ng	99
23) Atrazine	16.689	200	2300	0.382	ng	# 90
24) Pentachlorophenol	16.888	266	1384	0.438	ng	95
25) Phenanthrene	17.273	178	17751	0.388	ng	99
26) Anthracene	17.359	178	15208	0.375	ng	99
28) Fluoranthene	19.294	202	17450	0.348	ng	100
30) Pyrene	19.657	202	17087	0.418	ng	100
32) Benzo(a)anthracene	21.393	228	13864	0.381	ng	99
33) Chrysene	21.447	228	15945	0.408	ng	99
34) Bis(2-ethylhexyl)phtha...	21.339	149	4553	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	26.127	276	19472	0.437	ng	100
37) Benzo(b)fluoranthene	23.037	252	16161	0.387	ng	# 97
38) Benzo(k)fluoranthene	23.086	252	17089	0.402	ng	97
39) Benzo(a)pyrene	23.642	252	13152	0.394	ng	# 95
40) Dibenzo(a,h)anthracene	26.145	278	15512	0.436	ng	99
41) Benzo(g,h,i)perylene	26.855	276	16486	0.413	ng	99

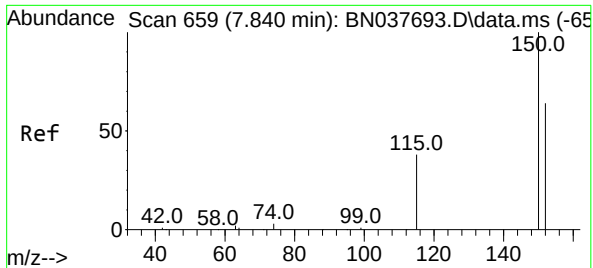
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Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

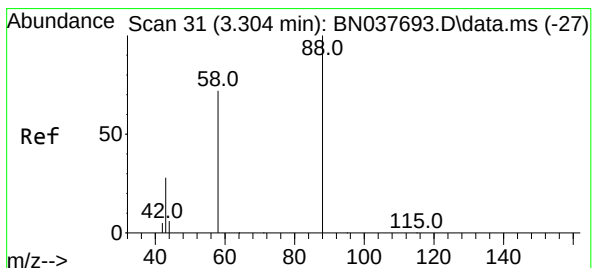
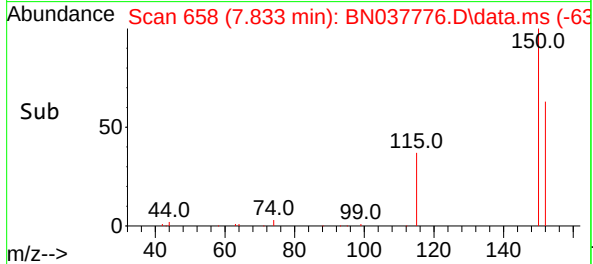
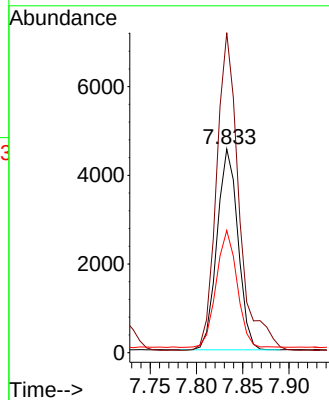
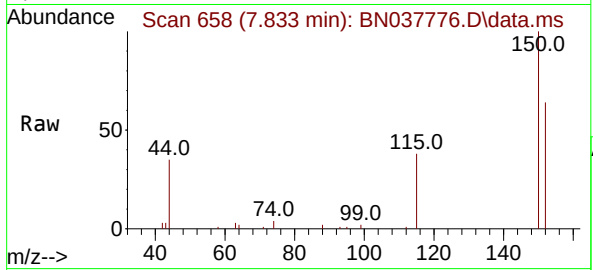




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

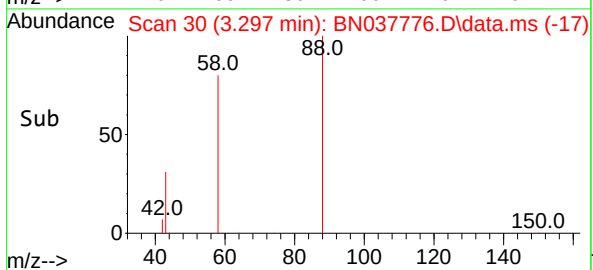
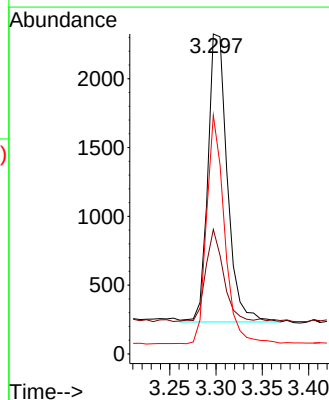
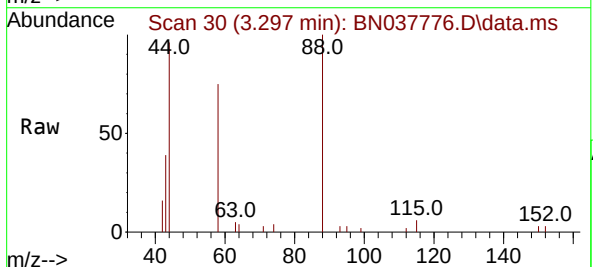
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

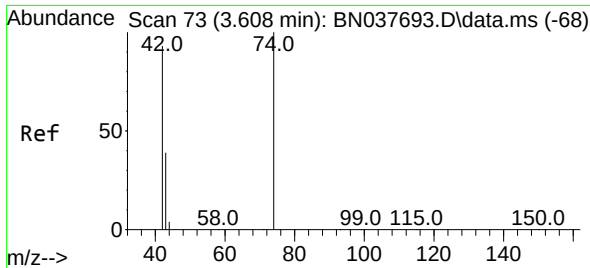
Tgt Ion:152 Resp: 7127
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 60.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 88 Resp: 3048
Ion Ratio Lower Upper
88 100
43 29.1 26.8 40.2
58 73.0 61.9 92.9

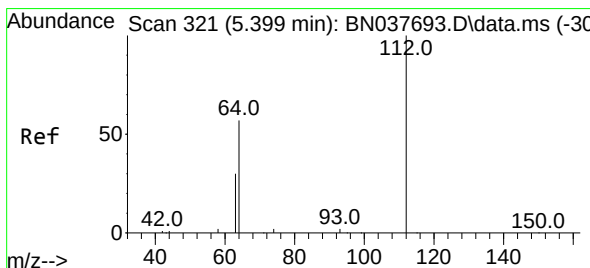
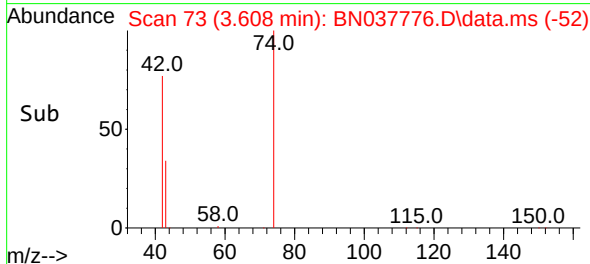
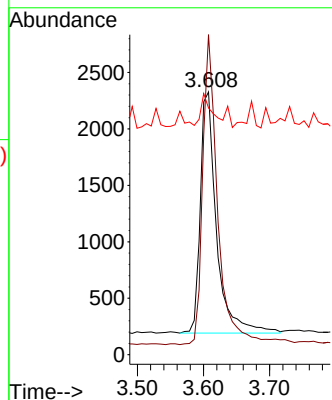
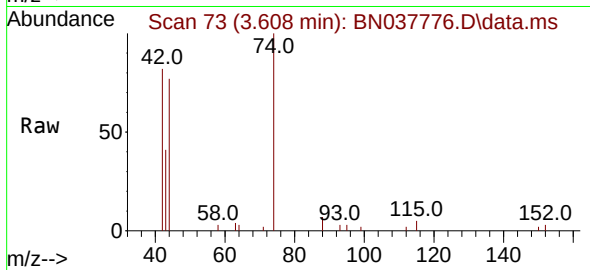




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

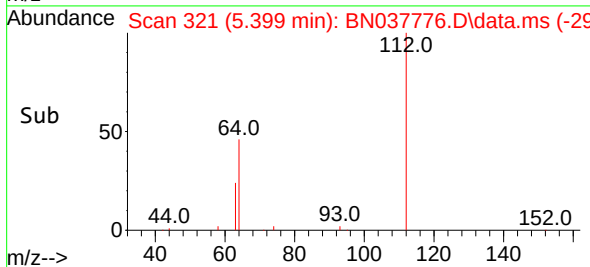
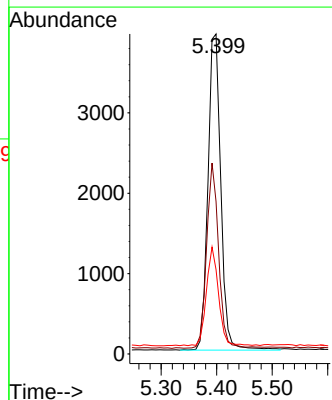
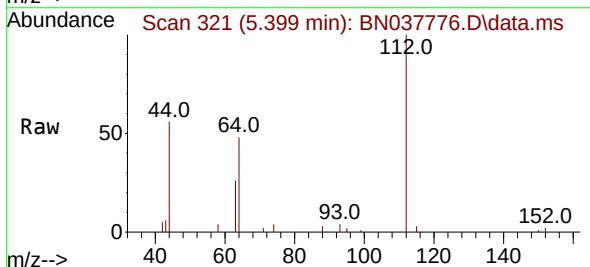
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BNA_N
ClientSampleId :
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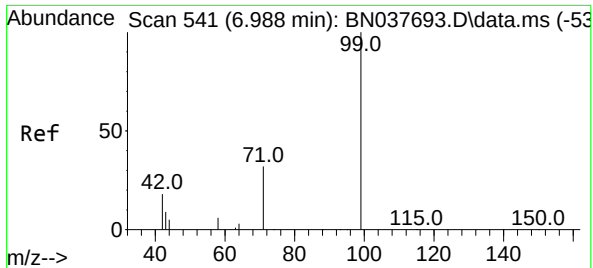
Tgt Ion: 42 Resp: 3658
Ion Ratio Lower Upper
42 100
74 118.6 86.0 129.0
44 8.4 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 112 Resp: 6346
Ion Ratio Lower Upper
112 100
64 54.2 44.9 67.3
63 29.2 24.7 37.1

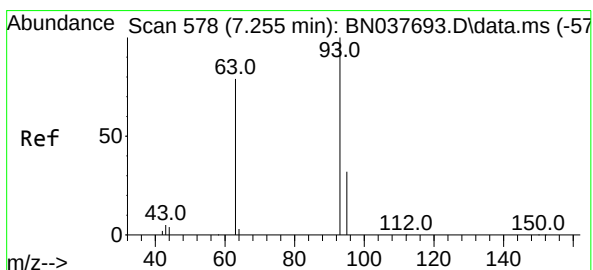
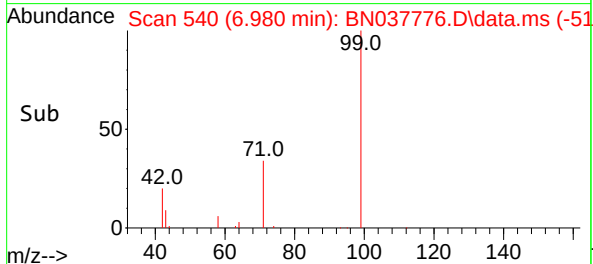
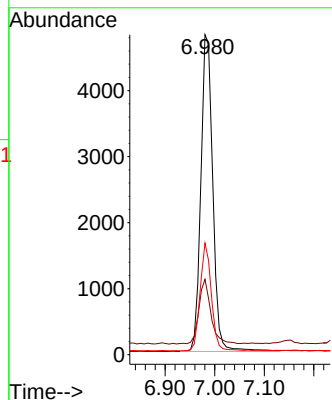
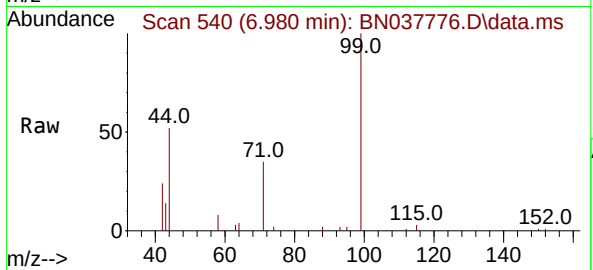




#5
Phenol-d6
Concen: 0.380 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

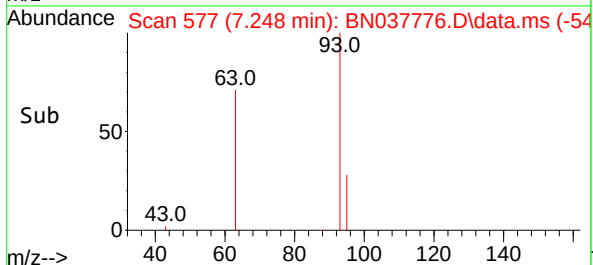
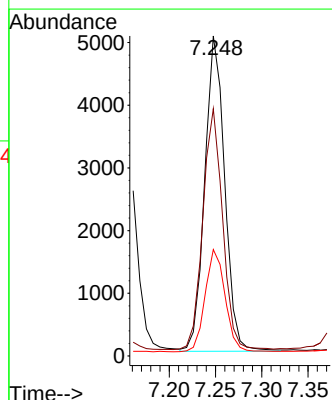
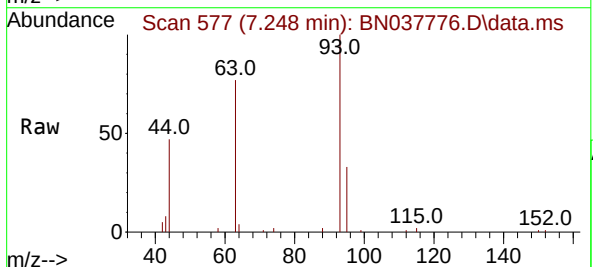
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ClientSampleId :
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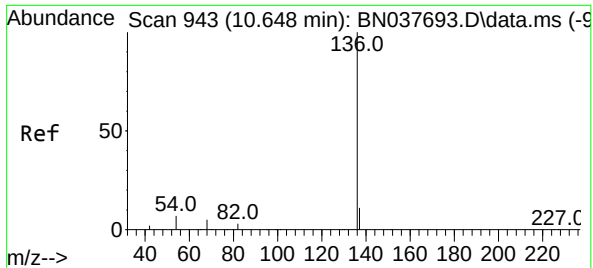
Tgt Ion: 99 Resp: 8055
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion: 93 Resp: 7546
Ion Ratio Lower Upper
93 100
63 75.4 60.6 90.8
95 32.5 26.0 39.0

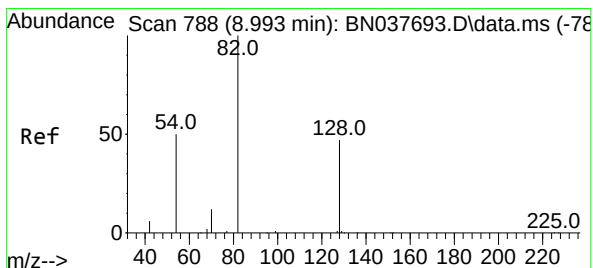
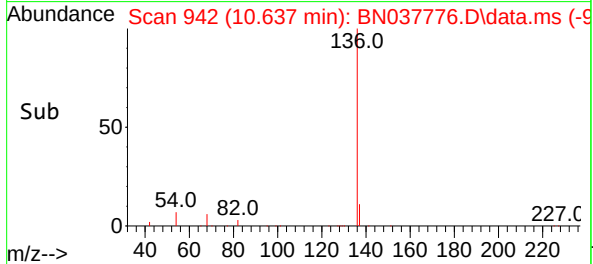
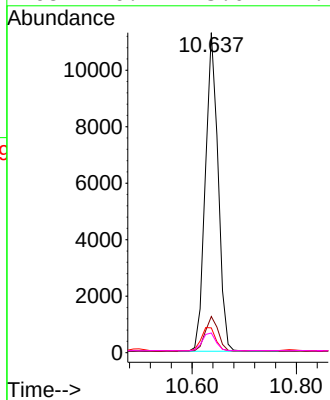
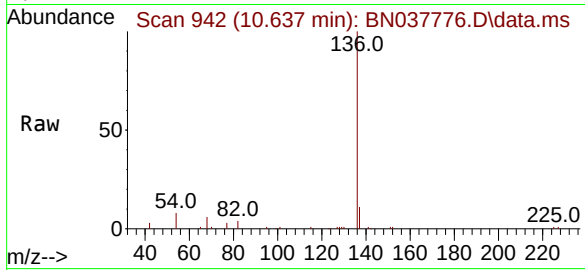




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

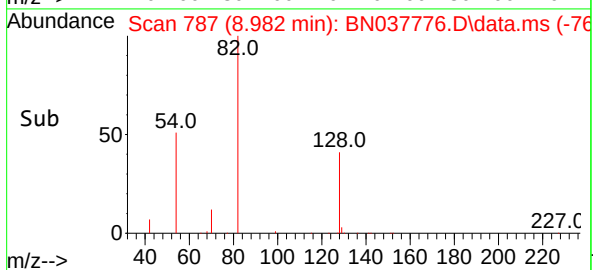
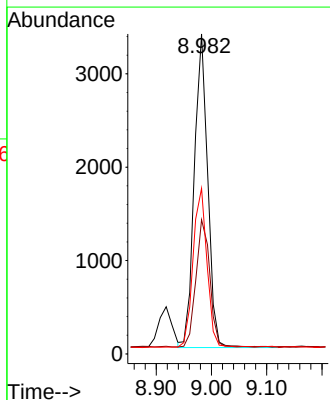
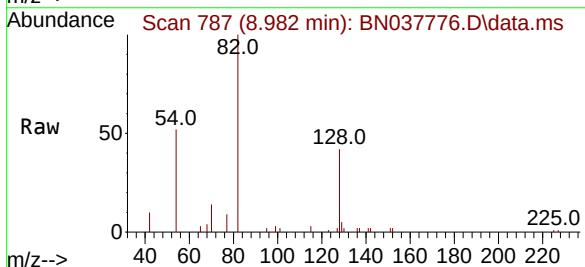
Instrument :
BNA_N
ClientSampleId :
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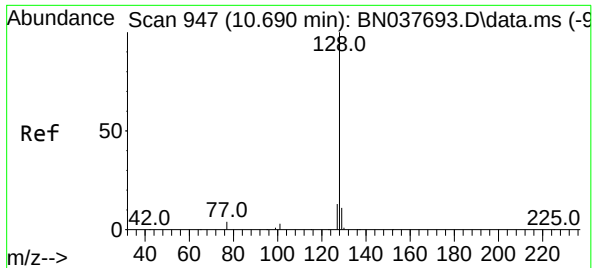
Tgt Ion:	136	Resp:	18984
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:	82	Resp:	5651
Ion	Ratio	Lower	Upper
82	100		
128	42.0	38.3	57.5
54	51.8	41.4	62.2

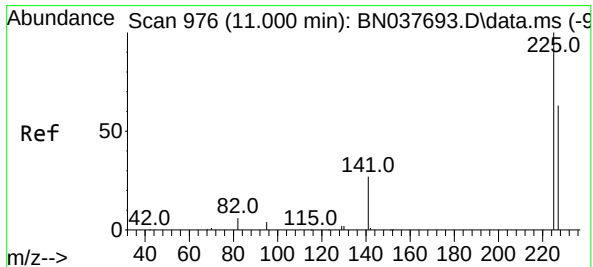
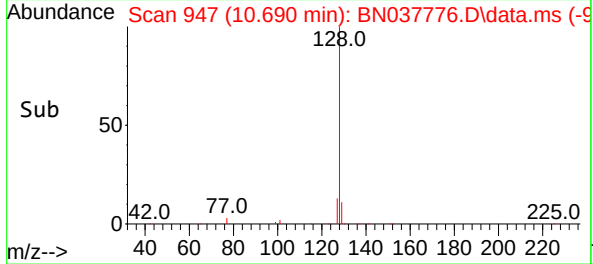
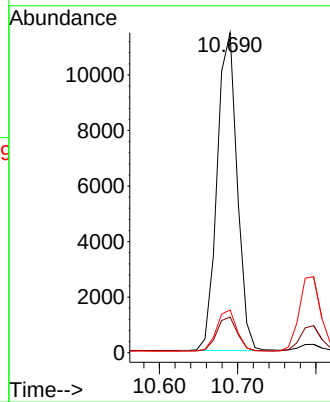
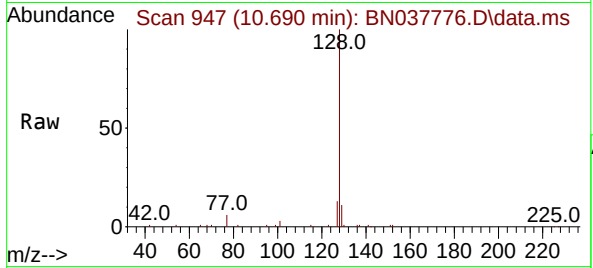




#9
Naphthalene
Concen: 0.391 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

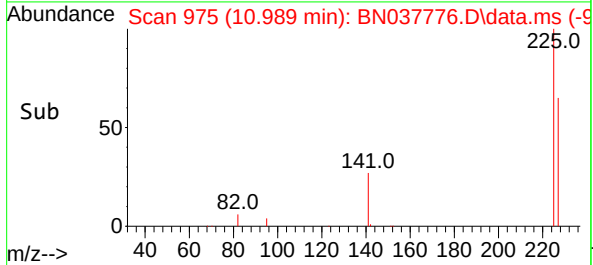
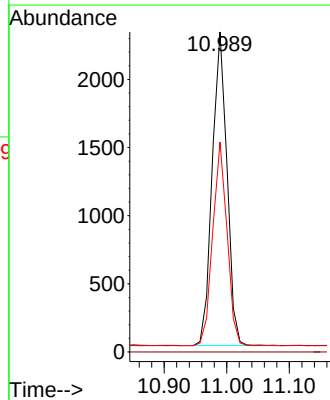
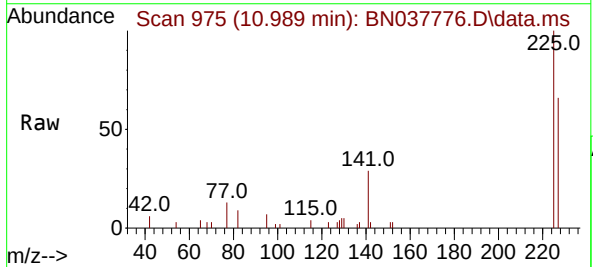
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

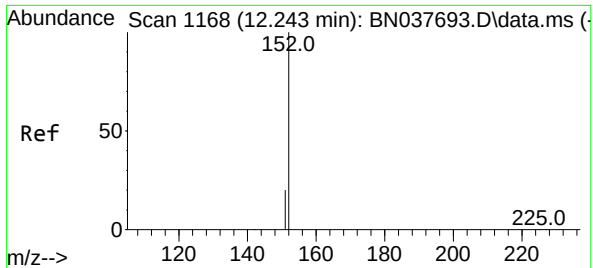
Tgt Ion:128 Resp: 20305
Ion Ratio Lower Upper
128 100
129 11.1 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.400 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:225 Resp: 3759
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

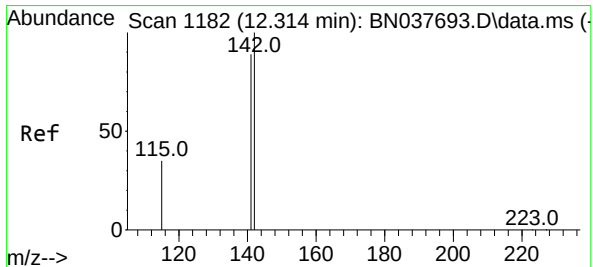
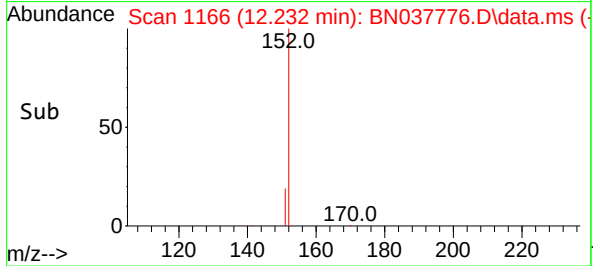
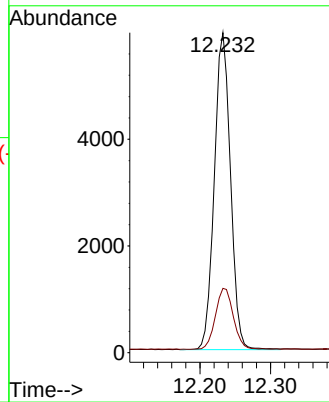
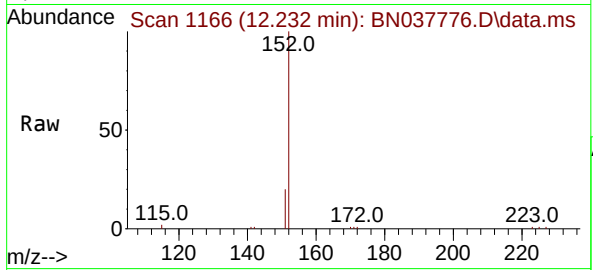




#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

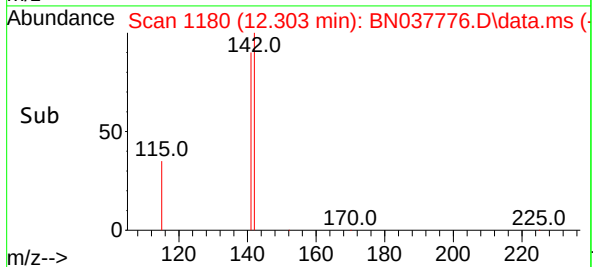
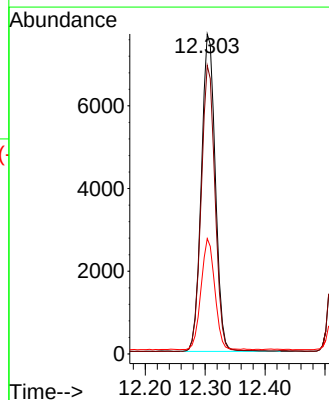
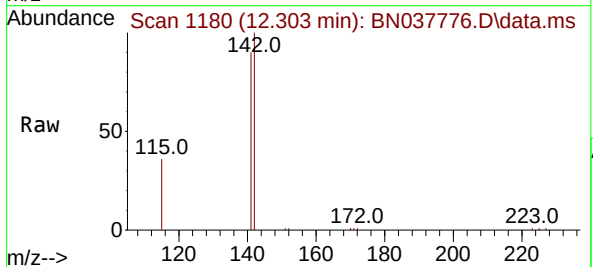
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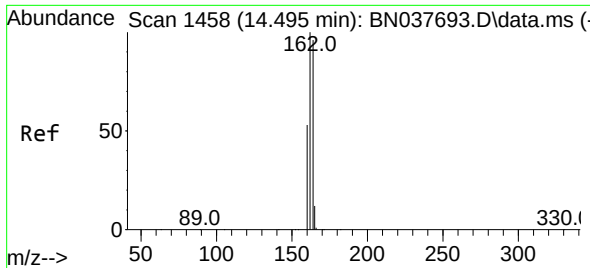
Tgt Ion:152 Resp: 9430
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:142 Resp: 12427
Ion Ratio Lower Upper
142 100
141 90.2 71.6 107.4
115 36.1 28.6 43.0

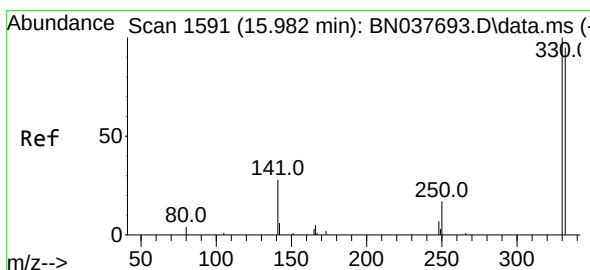
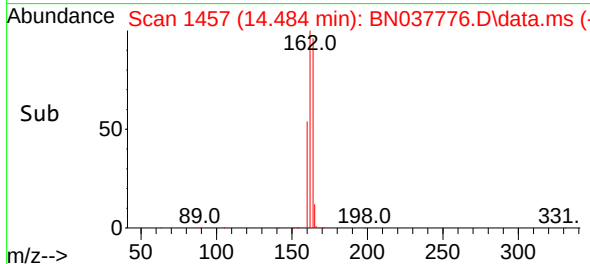
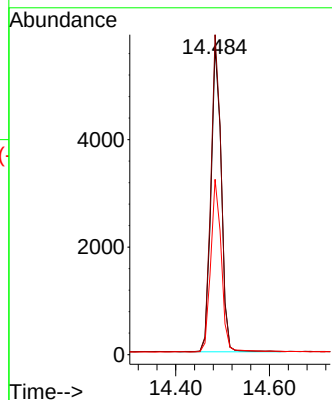
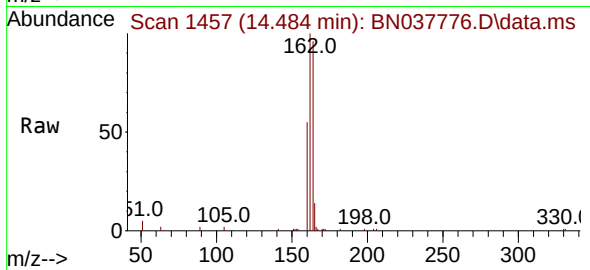




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

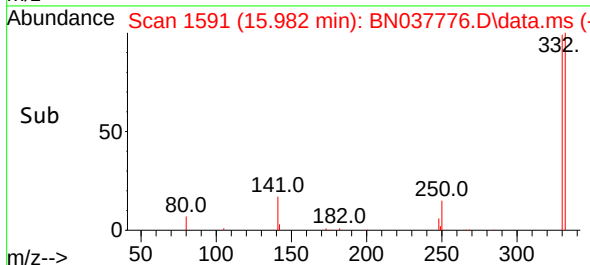
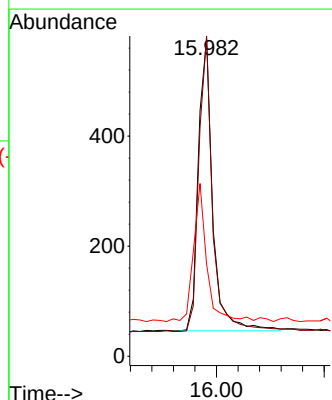
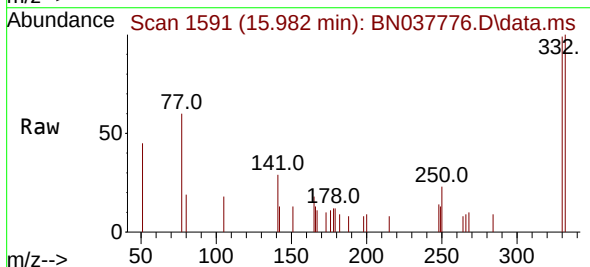
Instrument :
BNA_N
ClientSampleId :
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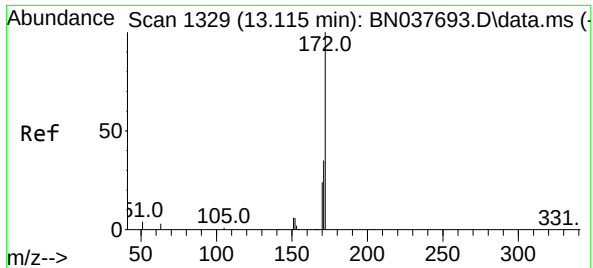
Tgt Ion:164 Resp: 8698
Ion Ratio Lower Upper
164 100
162 103.8 83.1 124.7
160 56.9 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.436 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:330 Resp: 988
Ion Ratio Lower Upper
330 100
332 96.3 75.3 112.9
141 42.6 35.0 52.4

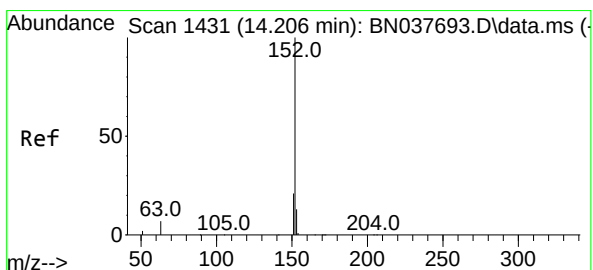
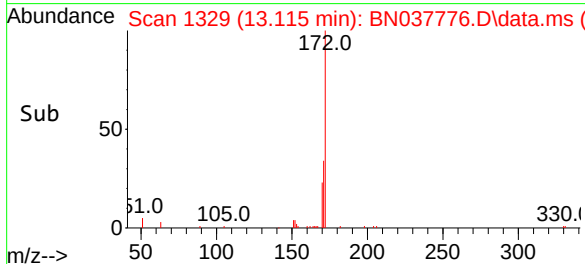
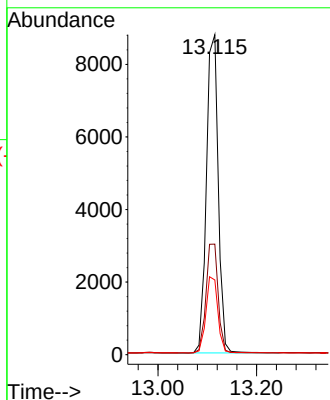
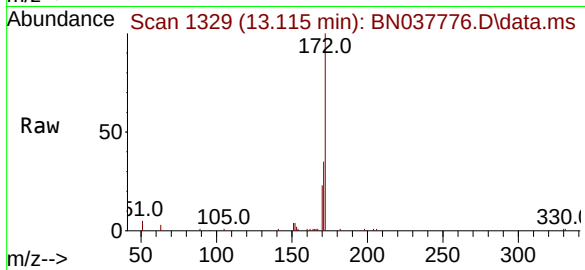




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

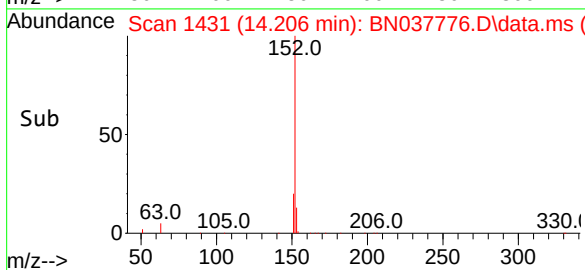
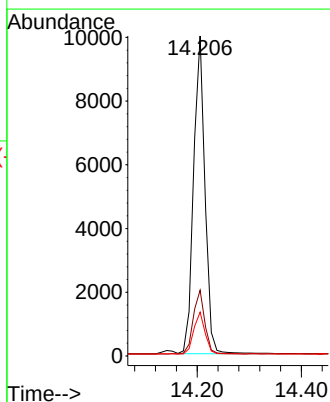
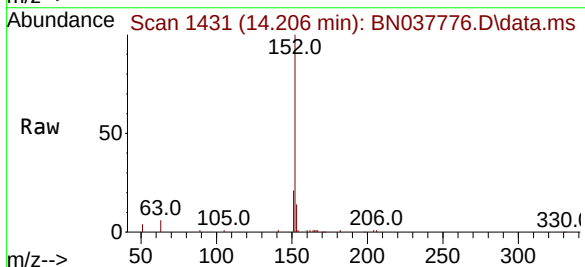
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

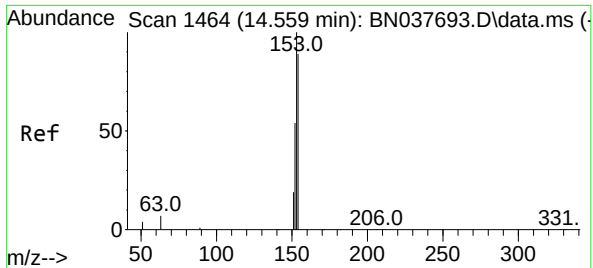
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	23.3	19.8	29.8



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.1	10.4	15.6

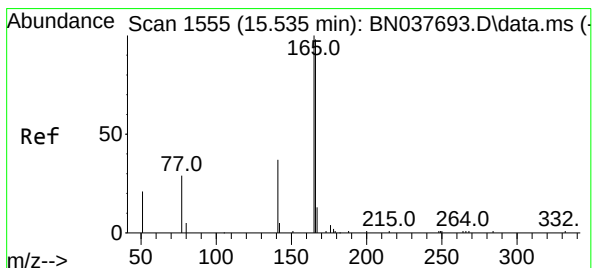
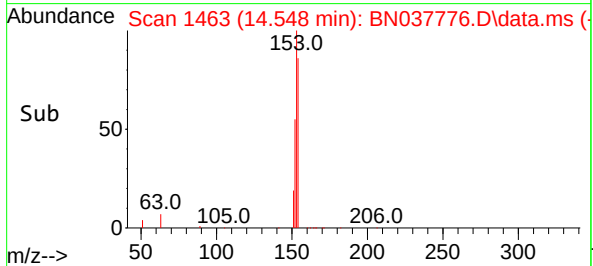
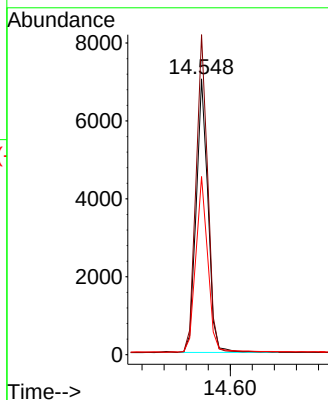
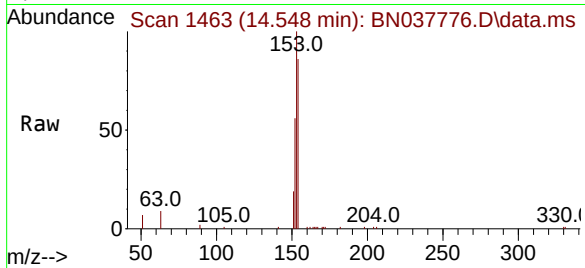




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

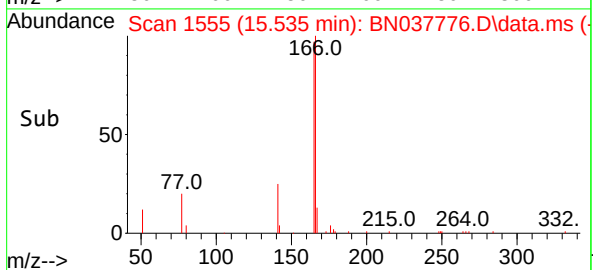
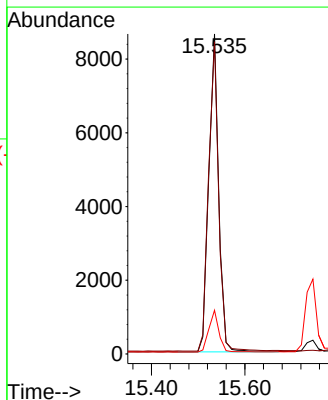
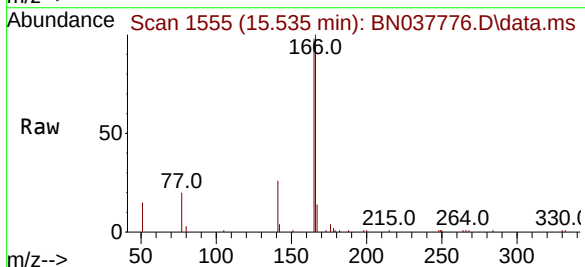
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

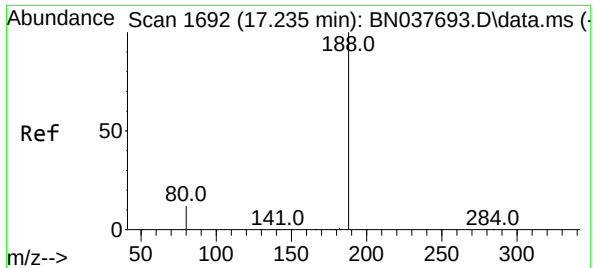
Tgt Ion	154	Resp	10490
Ion Ratio	Lower	Upper	
154	100		
153	115.3	89.8	134.8
152	65.9	50.2	75.2



#18
Fluorene
Concen: 0.372 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	166	Resp	12152
Ion Ratio	Lower	Upper	
166	100		
165	99.6	79.6	119.4
167	13.5	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

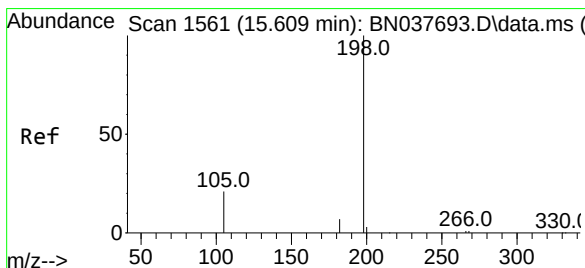
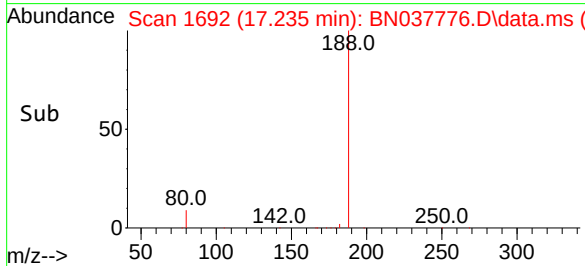
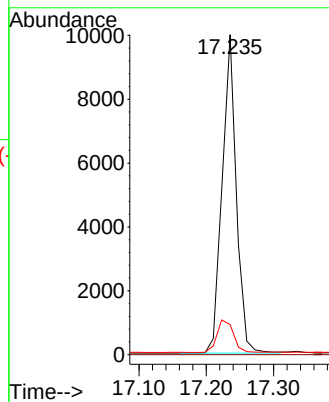
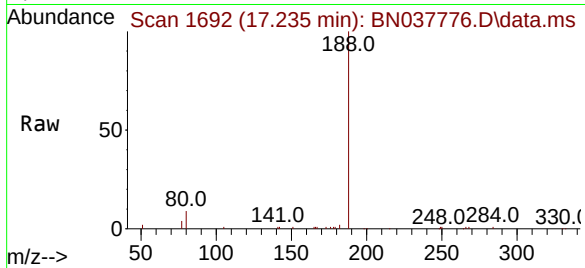
Tgt Ion:188 Resp: 14526

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.337 ng

RT: 15.609 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

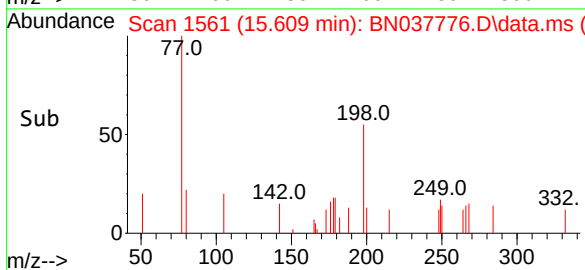
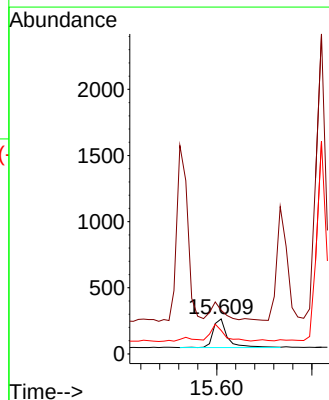
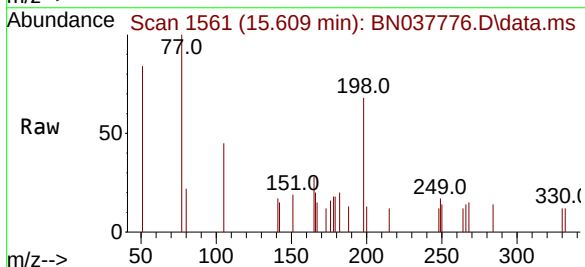
Tgt Ion:198 Resp: 454

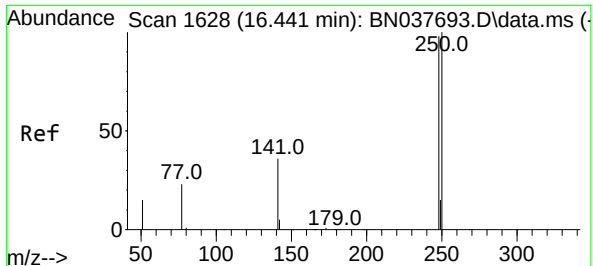
Ion Ratio Lower Upper

198 100

51 125.0 95.1 142.7

105 67.0 53.8 80.6

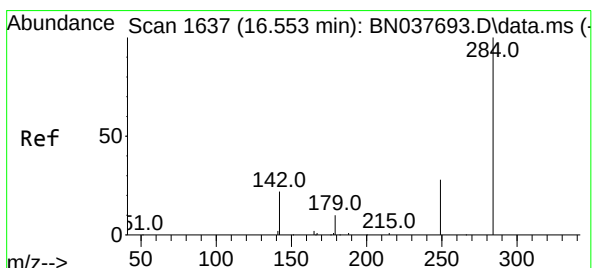
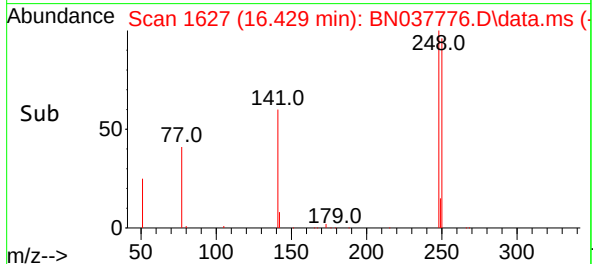
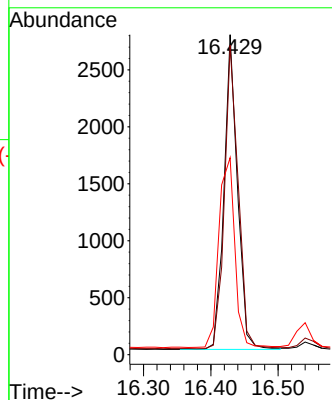
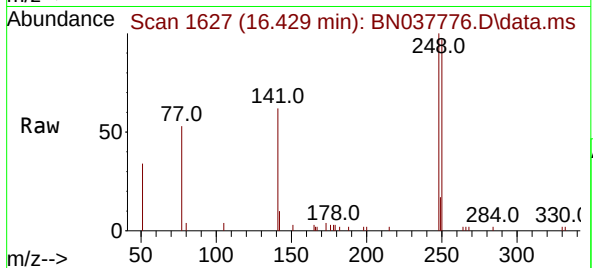




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

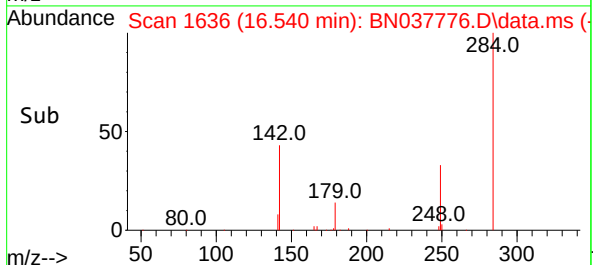
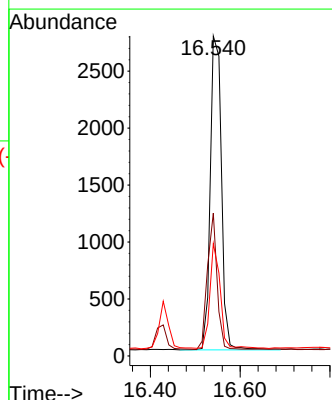
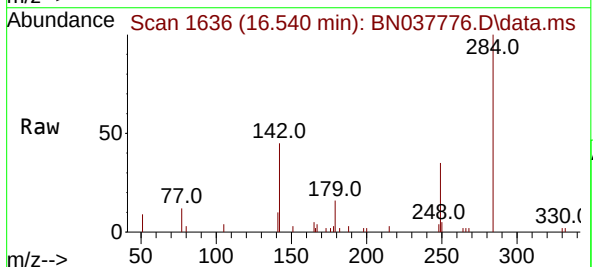
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

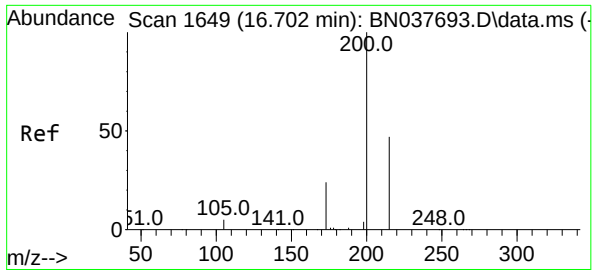
Tgt Ion:248 Resp: 3832
Ion Ratio Lower Upper
248 100
250 96.7 81.5 122.3
141 61.6 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:284 Resp: 4737
Ion Ratio Lower Upper
284 100
142 37.4 30.9 46.3
249 31.0 24.8 37.2

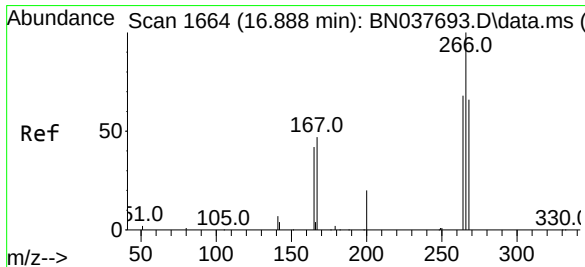
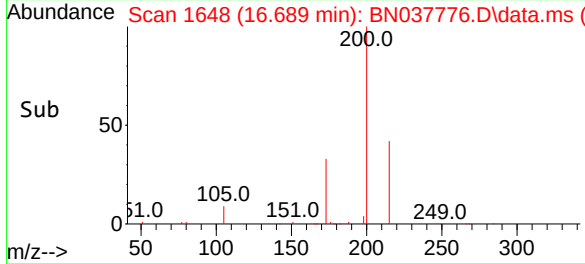
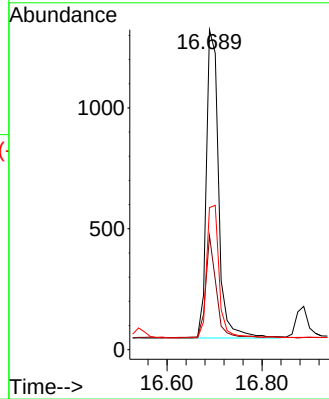
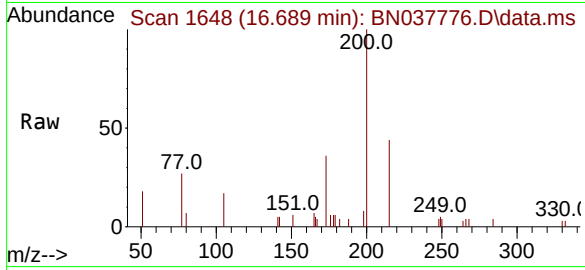




#23
Atrazine
Concen: 0.382 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

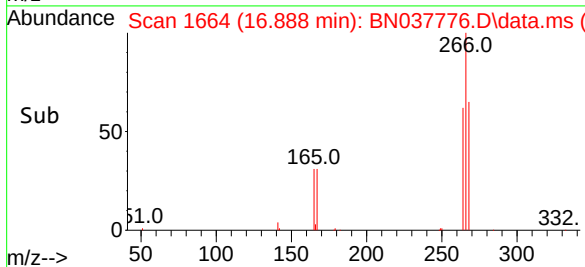
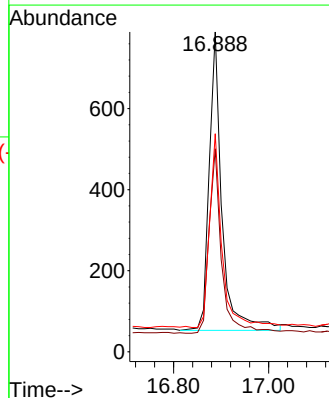
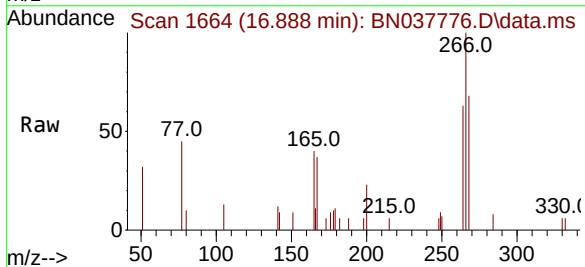
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

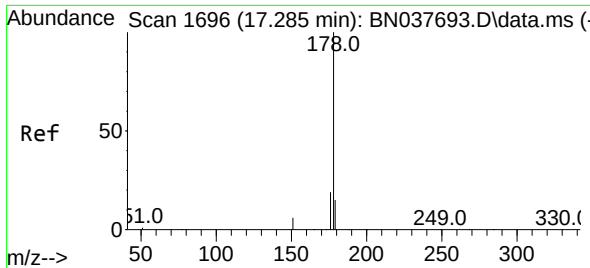
Tgt Ion:200 Resp: 2300
Ion Ratio Lower Upper
200 100
173 35.6 21.4 32.2#
215 44.4 39.2 58.8



#24
Pentachlorophenol
Concen: 0.438 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:266 Resp: 1384
Ion Ratio Lower Upper
266 100
264 60.4 51.6 77.4
268 63.2 53.2 79.8

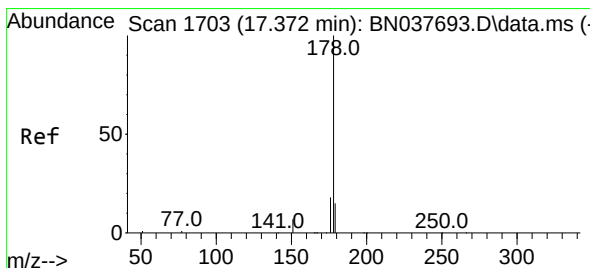
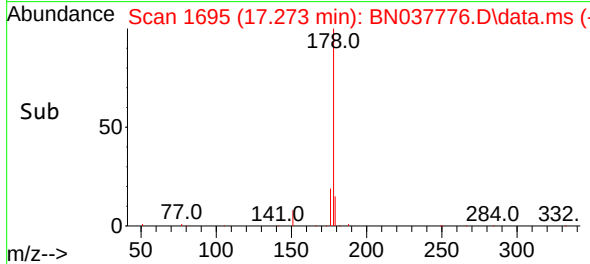
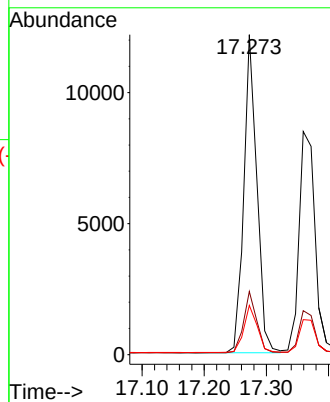
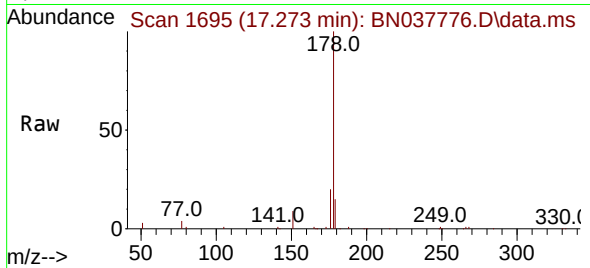




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

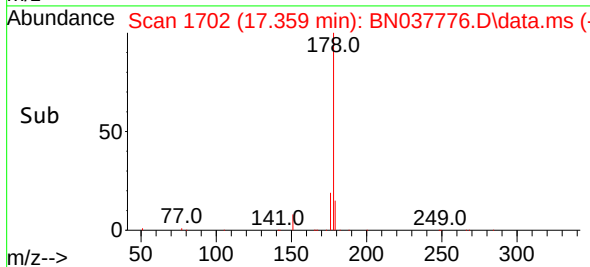
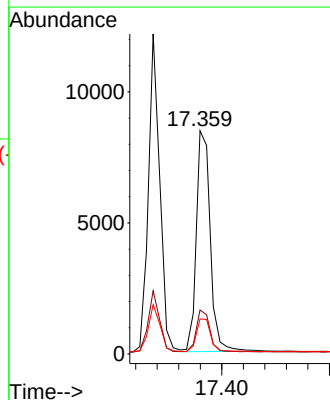
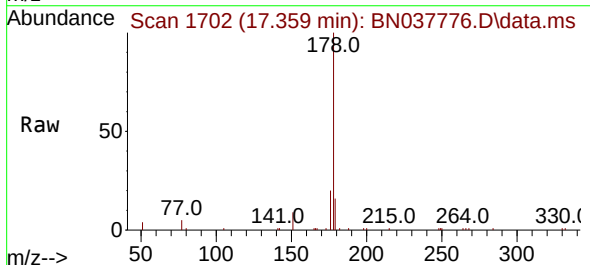
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

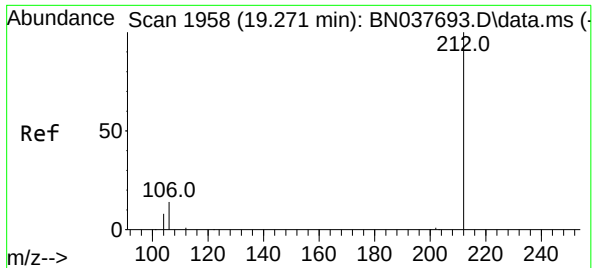
Tgt Ion:178 Resp: 17751
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:178 Resp: 15208
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.4 12.2 18.4

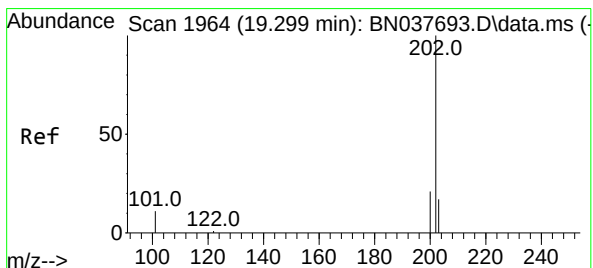
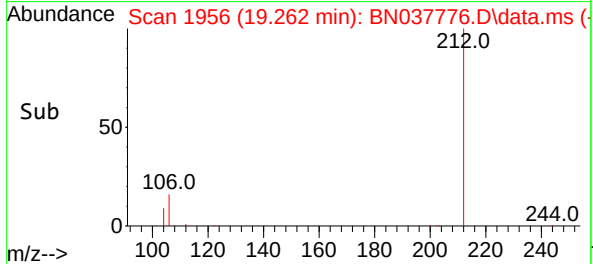
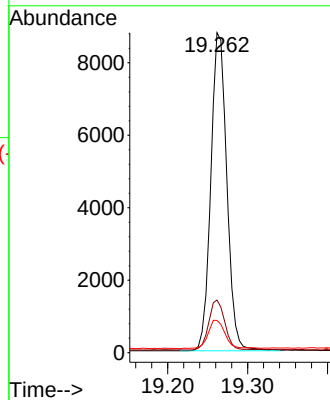
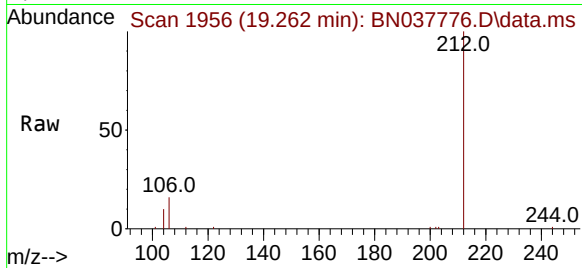




#27
Fluoranthene-d10
Concen: 0.334 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

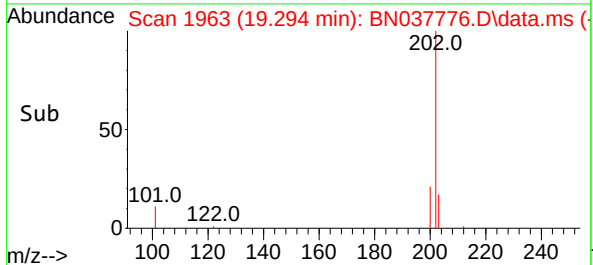
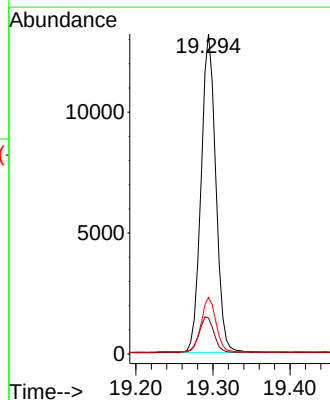
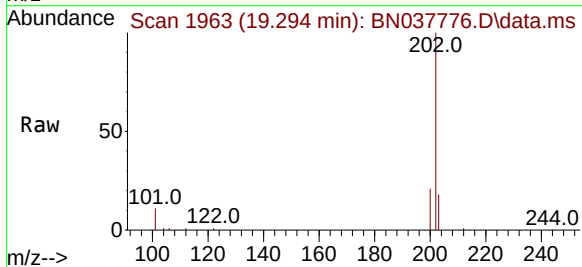
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

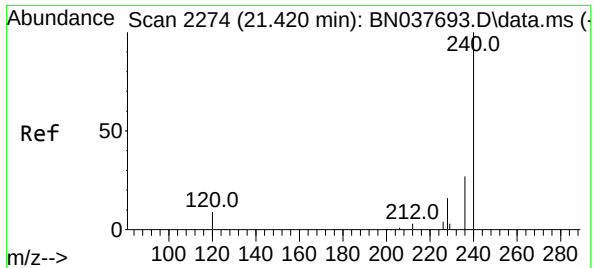
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.7	6.9	10.3



#28
Fluoranthene
Concen: 0.348 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5

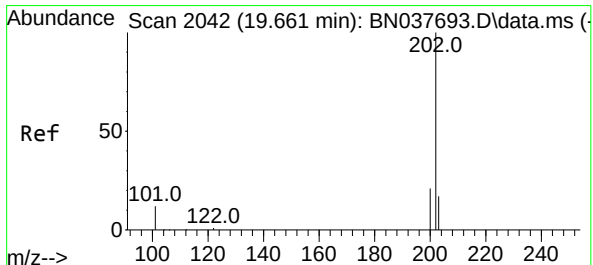
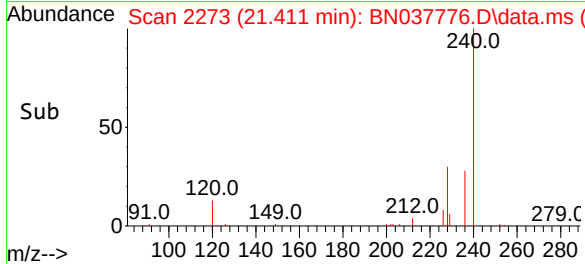
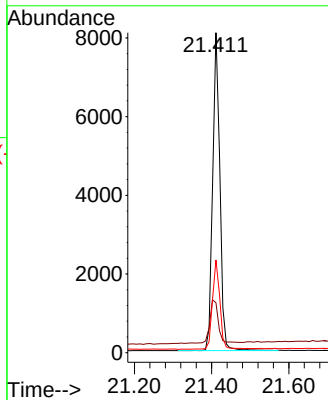
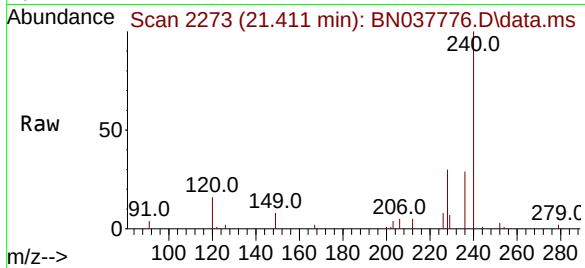




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

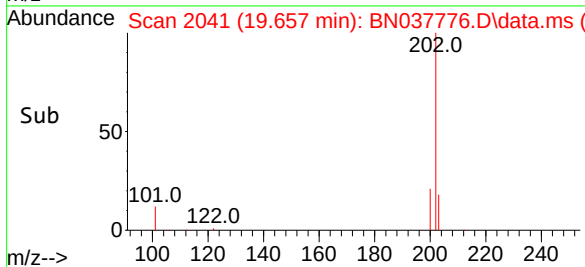
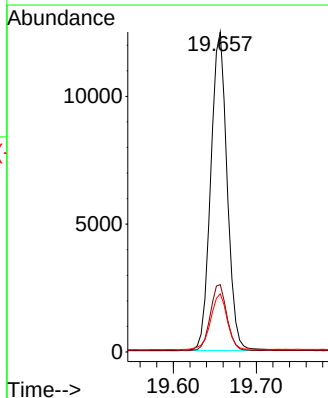
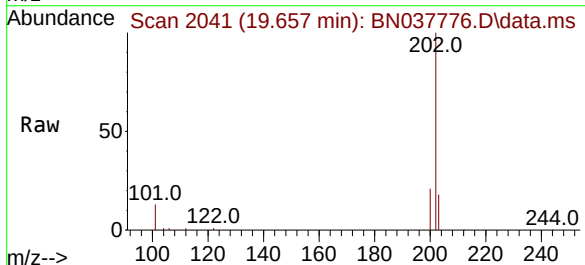
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

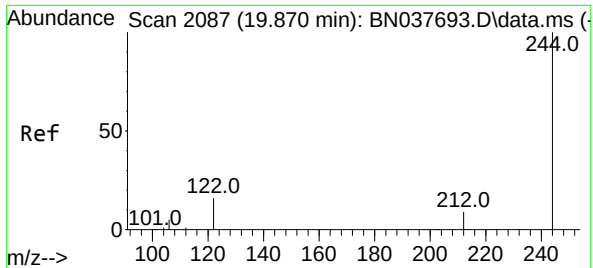
Tgt Ion:240 Resp: 10438
Ion Ratio Lower Upper
240 100
120 15.6 9.2 13.8#
236 28.9 22.6 33.8



#30
Pyrene
Concen: 0.418 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion:202 Resp: 17087
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.9 14.3 21.5

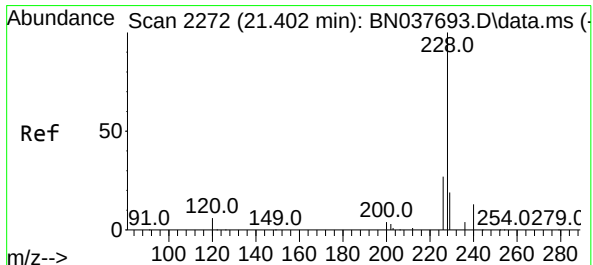
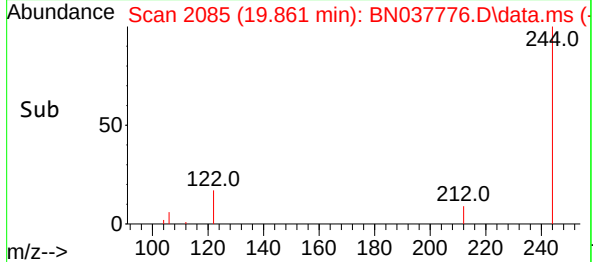
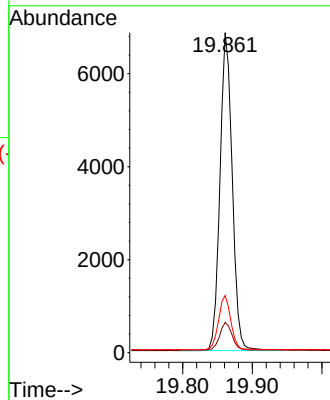
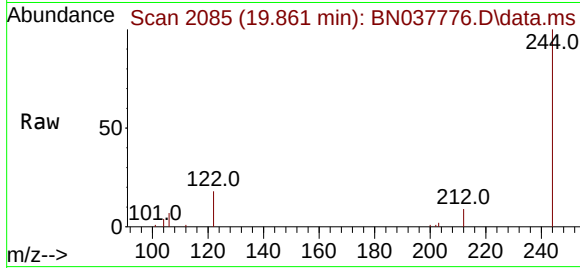




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

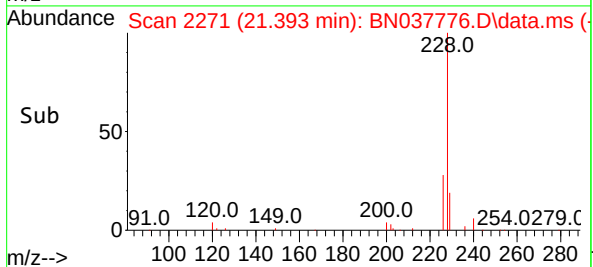
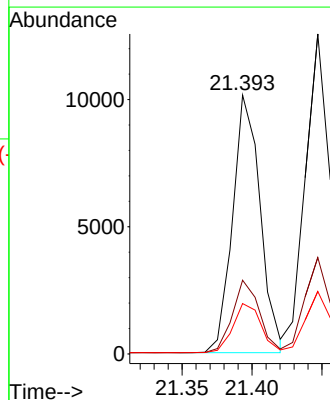
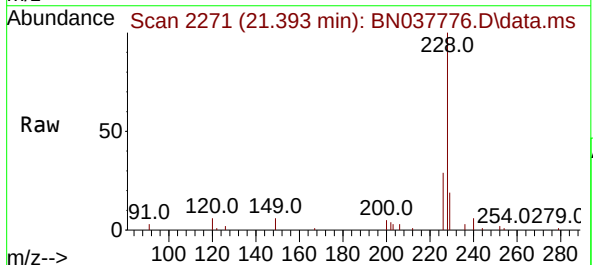
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

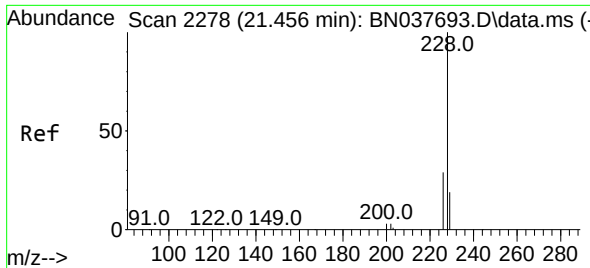
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	17.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.2
229	19.4	15.8	23.6





#33

Chrysene

Concen: 0.408 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

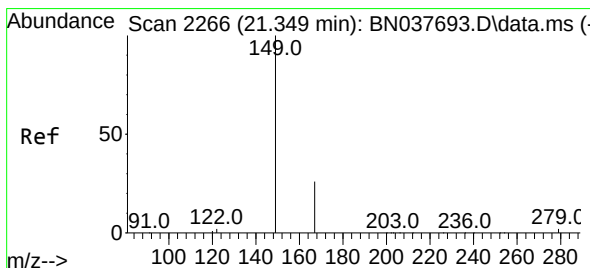
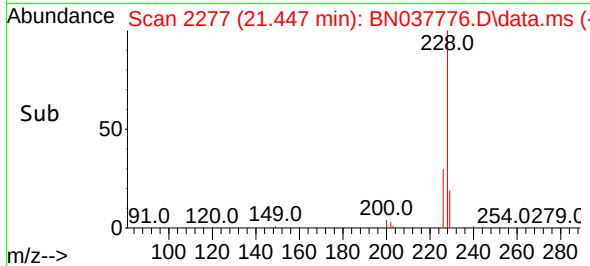
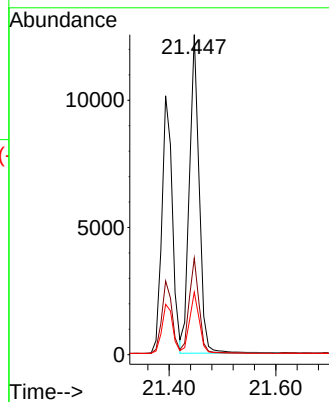
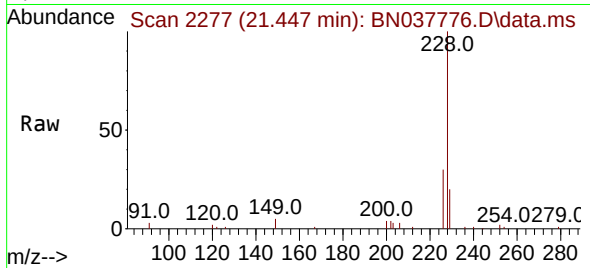
Tgt Ion:228 Resp: 15945

Ion Ratio Lower Upper

228 100

226 30.1 23.5 35.3

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.339 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

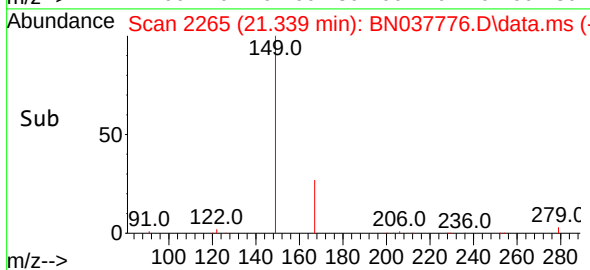
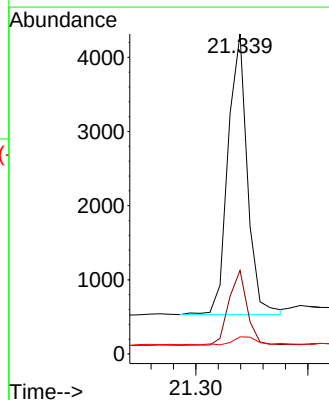
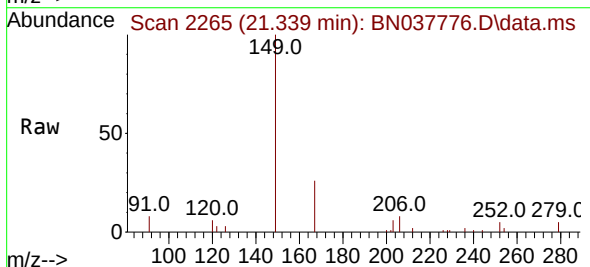
Tgt Ion:149 Resp: 4553

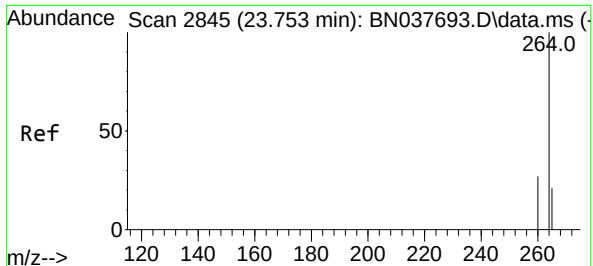
Ion Ratio Lower Upper

149 100

167 26.0 20.8 31.2

279 3.6 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.744 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037776.D

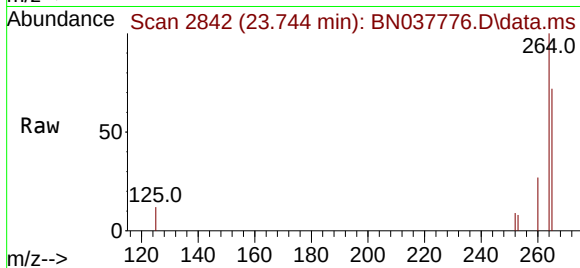
Acq: 18 Sep 2025 14:32

Instrument :

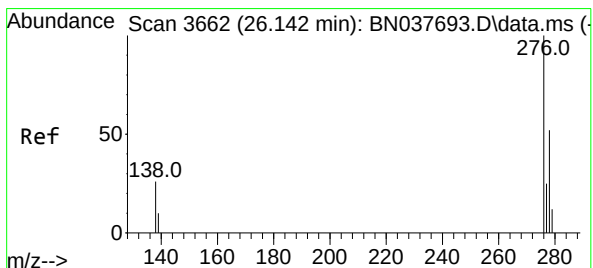
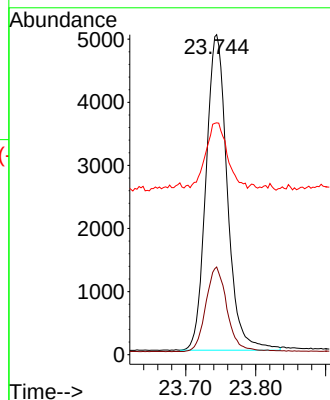
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264	Resp:	10600
Ion	Ratio	Lower Upper
264	100	
260	27.4	21.8 32.8
265	72.4	39.4 59.2#



#36

Indeno(1,2,3-cd)pyrene

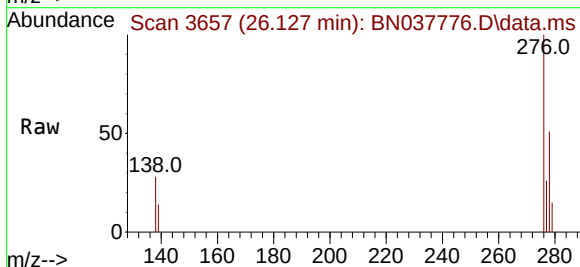
Concen: 0.437 ng

RT: 26.127 min Scan# 3657

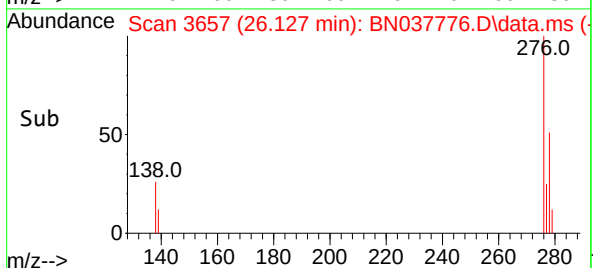
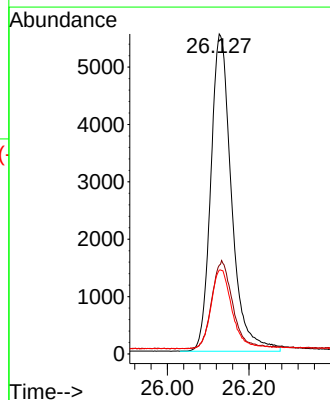
Delta R.T. -0.015 min

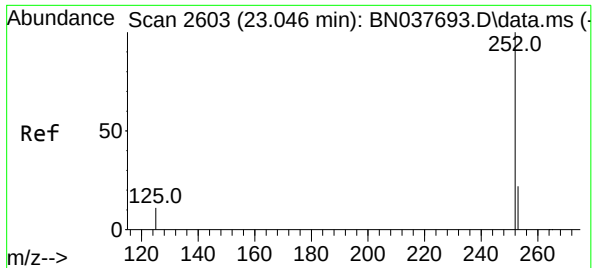
Lab File: BN037776.D

Acq: 18 Sep 2025 14:32



Tgt Ion:276	Resp:	19472
Ion	Ratio	Lower Upper
276	100	
138	27.6	21.9 32.9
277	25.3	20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.387 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

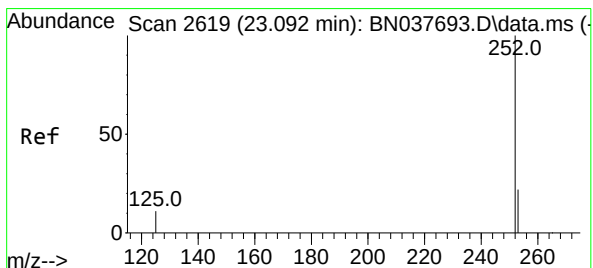
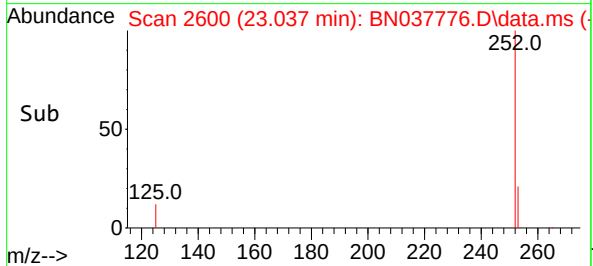
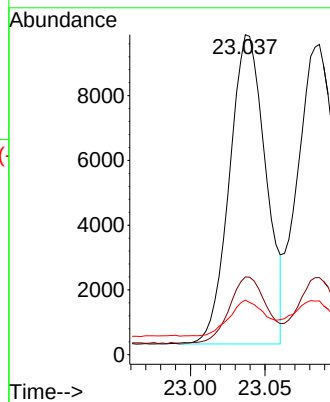
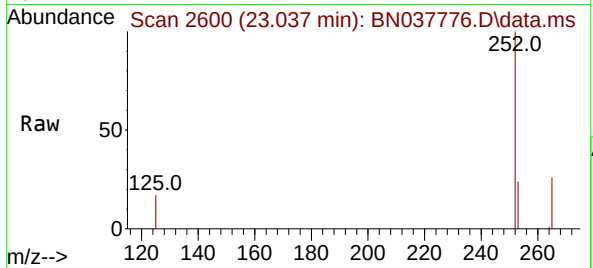
Tgt Ion:252 Resp: 16161

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 17.1 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

RT: 23.086 min Scan# 2617

Delta R.T. -0.006 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

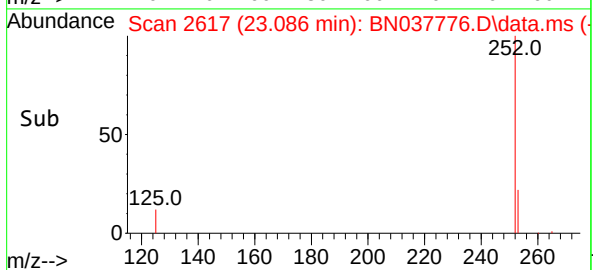
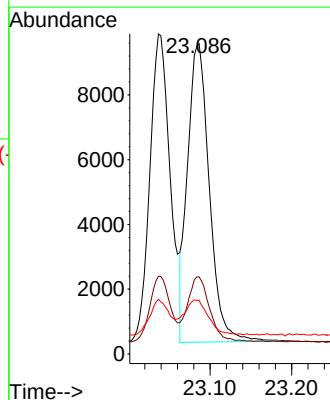
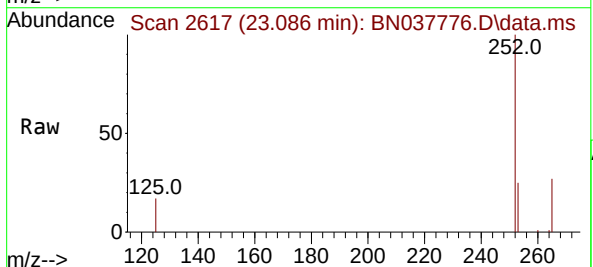
Tgt Ion:252 Resp: 17089

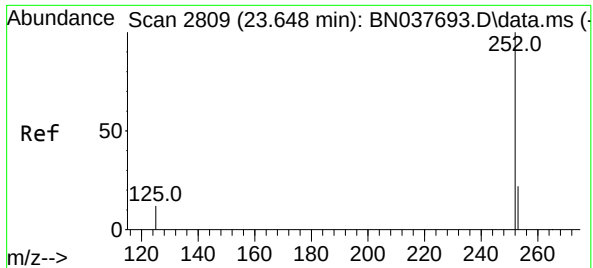
Ion Ratio Lower Upper

252 100

253 24.9 19.4 29.0

125 17.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.642 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

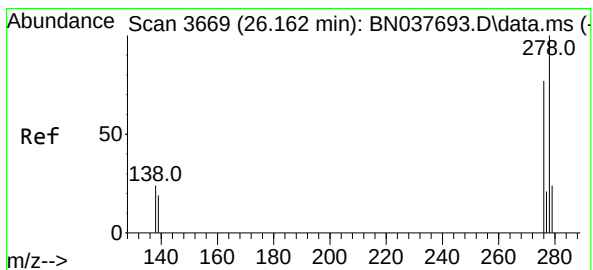
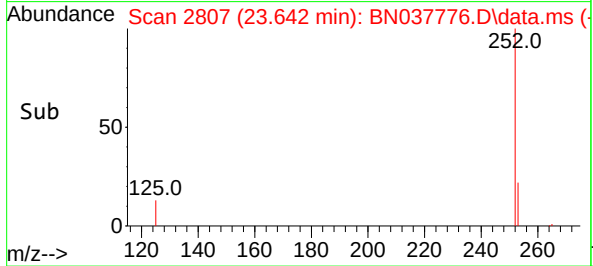
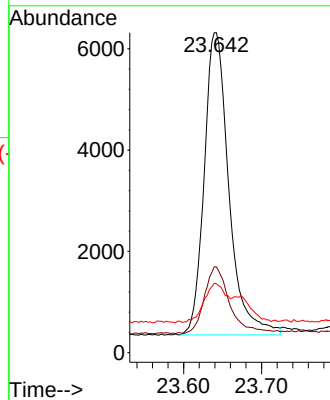
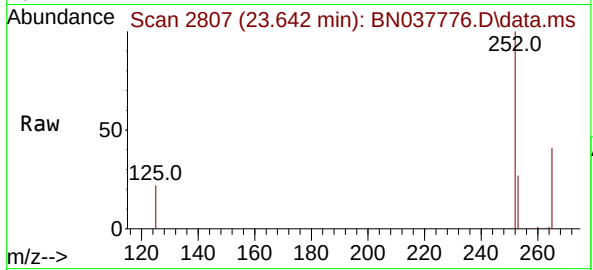
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	13152
Ion Ratio	Lower	Upper
252	100	
253	26.9	20.8 31.2
125	21.6	13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.436 ng

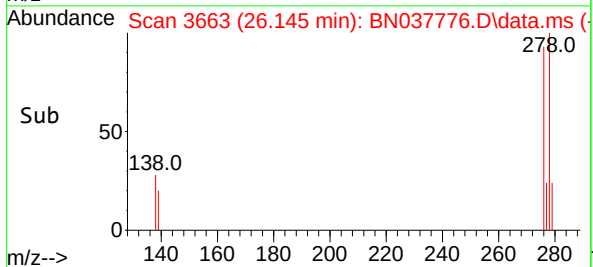
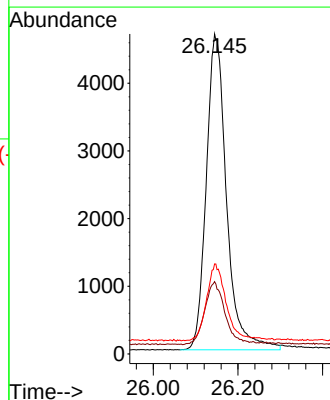
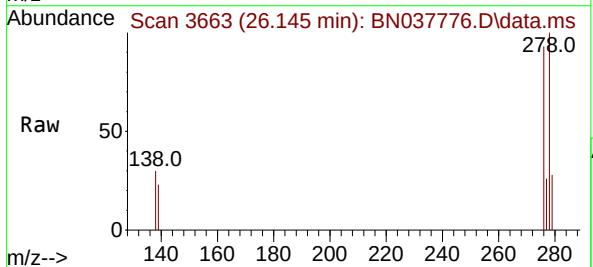
RT: 26.145 min Scan# 3663

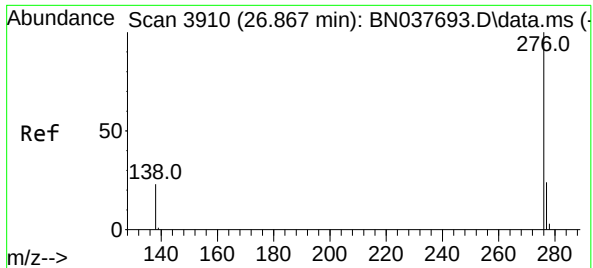
Delta R.T. -0.018 min

Lab File: BN037776.D

Acq: 18 Sep 2025 14:32

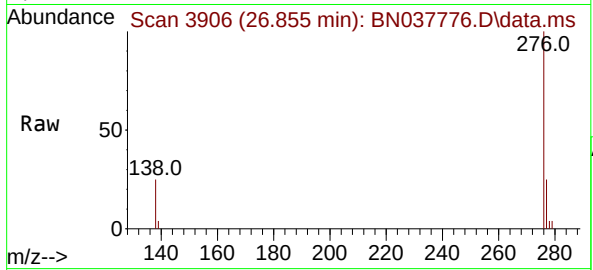
Tgt Ion:278	Resp:	15512
Ion Ratio	Lower	Upper
278	100	
139	22.6	17.8 26.6
279	28.2	22.0 33.0



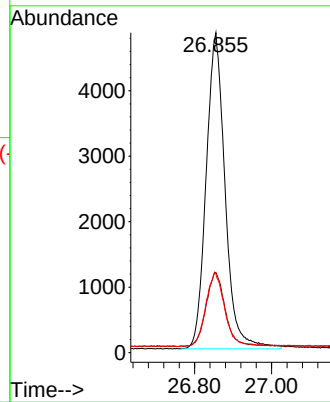
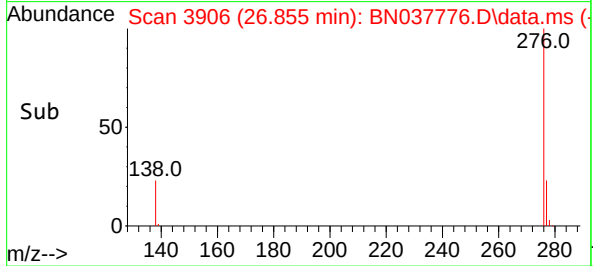


#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.855 min Scan# 3910
Delta R.T. -0.012 min
Lab File: BN037776.D
Acq: 18 Sep 2025 14:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 16486
Ion Ratio Lower Upper
276 100
277 25.1 20.6 31.0
138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	143	0.00
2	1,4-Dioxane	0.417	0.428	-2.6	145	0.00
3	n-Nitrosodimethylamine	0.544	0.513	5.7	130	0.00
4 S	2-Fluorophenol	0.918	0.890	3.1	143	0.00
5 S	Phenol-d6	1.191	1.130	5.1	140	0.00
6	bis(2-Chloroethyl)ether	1.064	1.059	0.5	141	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.293	0.298	-1.7	150	-0.01
9	Naphthalene	1.093	1.070	2.1	143	0.00
10	Hexachlorobutadiene	0.198	0.198	0.0	144	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	143	-0.01
12	2-Methylnaphthalene	0.676	0.655	3.1	142	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	140	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.114	-9.6	158#	0.00
15 S	2-Fluorobiphenyl	1.673	1.679	-0.4	143	0.00
16	Acenaphthylene	1.834	1.744	4.9	137	0.00
17	Acenaphthene	1.240	1.206	2.7	139	-0.01
18	Fluorene	1.502	1.397	7.0	136	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	129	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	122	0.00
21	4-Bromophenyl-phenylether	0.261	0.264	-1.1	136	-0.01
22	Hexachlorobenzene	0.300	0.326	-8.7	143	-0.01
23	Atrazine	0.166	0.158	4.8	135	-0.01
24	Pentachlorophenol	0.087	0.095	-9.2	165#	0.00
25	Phenanthrene	1.259	1.222	2.9	129	-0.01
26	Anthracene	1.116	1.047	6.2	126	-0.01
27 SURR	Fluoranthene-d10	1.004	0.839	16.4	116	0.00
28	Fluoranthene	1.381	1.201	13.0	118	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30	Pyrene	1.566	1.637	-4.5	117	0.00
31 S	Terphenyl-d14	0.812	0.801	1.4	111	0.00
32	Benzo(a)anthracene	1.395	1.328	4.8	110	0.00
33	Chrysene	1.496	1.528	-2.1	114	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.436	-5.3	129	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.681	1.837	-9.3	141	-0.01
37	Benzo(b)fluoranthene	1.575	1.525	3.2	116	0.00
38	Benzo(k)fluoranthene	1.606	1.612	-0.4	125	0.00
39 C	Benzo(a)pyrene	1.261	1.241	1.6	122	0.00
40	Dibenzo(a,h)anthracene	1.342	1.463	-9.0	143	-0.02
41	Benzo(g,h,i)perylene	1.506	1.555	-3.3	127	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037776.D
Acq On : 18 Sep 2025 14:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 18 15:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	143	0.00
2	1,4-Dioxane	0.400	0.411	-2.7	145	0.00
3	n-Nitrosodimethylamine	0.400	0.377	5.8	130	0.00
4 S	2-Fluorophenol	0.400	0.388	3.0	143	0.00
5 S	Phenol-d6	0.400	0.380	5.0	140	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	141	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	143	-0.01
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	150	-0.01
9	Naphthalene	0.400	0.391	2.3	143	0.00
10	Hexachlorobutadiene	0.400	0.400	0.0	144	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	143	-0.01
12	2-Methylnaphthalene	0.400	0.387	3.3	142	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	140	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.436	-9.0	158	0.00
15 S	2-Fluorobiphenyl	0.400	0.401	-0.3	143	0.00
16	Acenaphthylene	0.400	0.380	5.0	137	0.00
17	Acenaphthene	0.400	0.389	2.8	139	-0.01
18	Fluorene	0.400	0.372	7.0	136	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	129	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.337	15.8	122	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	136	-0.01
22	Hexachlorobenzene	0.400	0.435	-8.7	143	-0.01
23	Atrazine	0.400	0.382	4.5	135	-0.01
24	Pentachlorophenol	0.400	0.438	-9.5	165	0.00
25	Phenanthrene	0.400	0.388	3.0	129	-0.01
26	Anthracene	0.400	0.375	6.3	126	-0.01
27 SURR	Fluoranthene-d10	0.400	0.334	16.5	116	0.00
28	Fluoranthene	0.400	0.348	13.0	118	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30	Pyrene	0.400	0.418	-4.5	117	0.00
31 S	Terphenyl-d14	0.400	0.394	1.5	111	0.00
32	Benzo(a)anthracene	0.400	0.381	4.8	110	0.00
33	Chrysene	0.400	0.408	-2.0	114	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.422	-5.5	129	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.437	-9.2	141	-0.01
37	Benzo(b)fluoranthene	0.400	0.387	3.3	116	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	125	0.00
39 C	Benzo(a)pyrene	0.400	0.394	1.5	122	0.00
40	Dibenzo(a,h)anthracene	0.400	0.436	-9.0	143	-0.02
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	127	-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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 00:52
 Lab File ID: BN037793.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.496		-6.4	50.0
Fluoranthene-d10	1.004	0.954		-5.0	50.0
2-Fluorophenol	0.918	0.923		0.5	50.0
Phenol-d6	1.191	1.148		-3.6	50.0
Nitrobenzene-d5	0.293	0.295		0.7	50.0
2-Fluorobiphenyl	1.673	1.632		-2.5	50.0
2,4,6-Tribromophenol	0.104	0.127		22.1	50.0
Terphenyl-d14	0.812	0.785		-3.3	50.0
1,4-Dioxane	0.417	0.436		4.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037793.D
 Acq On : 19 Sep 2025 00:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

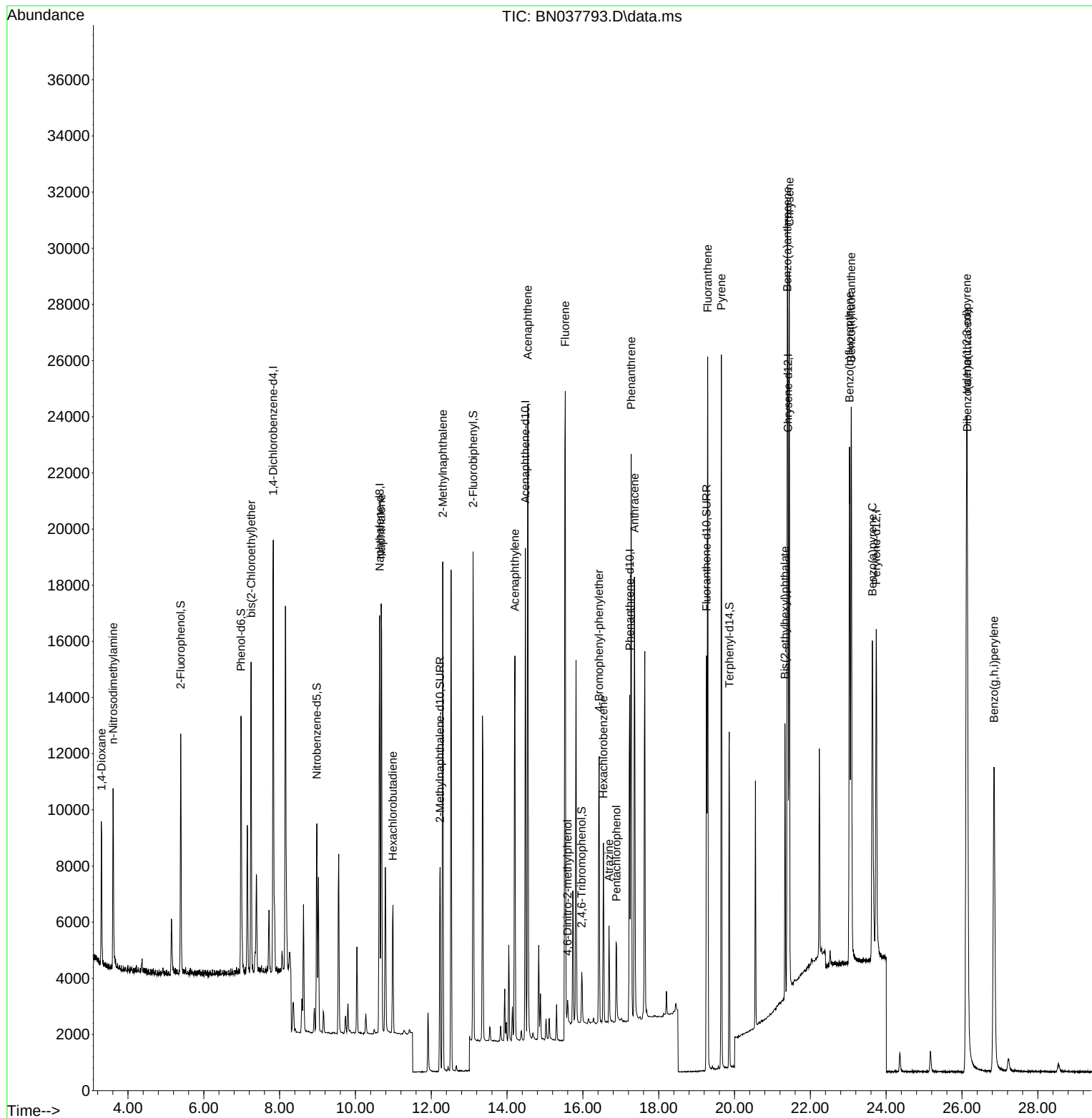
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19492	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	9091	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	16806	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	15128	0.400	ng	0.00
35) Perylene-d12	23.739	264	15864	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6868	0.402	ng	0.00
5) Phenol-d6	6.981	99	8539	0.386	ng	0.00
8) Nitrobenzene-d5	8.982	82	5756	0.404	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	9662	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.969	330	1156	0.488	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	14833	0.390	ng	-0.01
27) Fluoranthene-d10	19.262	212	16028	0.380	ng	0.00
31) Terphenyl-d14	19.861	244	11883	0.387	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.304	88	3241	0.418	ng	98
3) n-Nitrosodimethylamine	3.608	42	3766	0.372	ng	88
6) bis(2-Chloroethyl)ether	7.248	93	7648	0.386	ng	100
9) Naphthalene	10.680	128	20919	0.393	ng	100
10) Hexachlorobutadiene	10.989	225	3750	0.389	ng	# 100
12) 2-Methylnaphthalene	12.304	142	12695	0.385	ng	99
16) Acenaphthylene	14.206	152	15704	0.377	ng	99
17) Acenaphthene	14.548	154	10816	0.384	ng	98
18) Fluorene	15.535	166	13166	0.386	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	563	0.362	ng	# 81
21) 4-Bromophenyl-phenylether	16.429	248	4194	0.383	ng	# 94
22) Hexachlorobenzene	16.540	284	5004	0.397	ng	98
23) Atrazine	16.689	200	2701	0.387	ng	95
24) Pentachlorophenol	16.888	266	1719	0.470	ng	99
25) Phenanthrene	17.273	178	20559	0.389	ng	100
26) Anthracene	17.360	178	17722	0.378	ng	100
28) Fluoranthene	19.294	202	22839	0.394	ng	100
30) Pyrene	19.652	202	22743	0.384	ng	100
32) Benzo(a)anthracene	21.393	228	20290	0.385	ng	100
33) Chrysene	21.447	228	22567	0.399	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	8520	0.545	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	31159	0.467	ng	99
37) Benzo(b)fluoranthene	23.034	252	24537	0.393	ng	99
38) Benzo(k)fluoranthene	23.078	252	26227	0.412	ng	99
39) Benzo(a)pyrene	23.636	252	19199	0.384	ng	98
40) Dibenzo(a,h)anthracene	26.139	278	24445	0.459	ng	98
41) Benzo(g,h,i)perylene	26.846	276	24646	0.413	ng	97

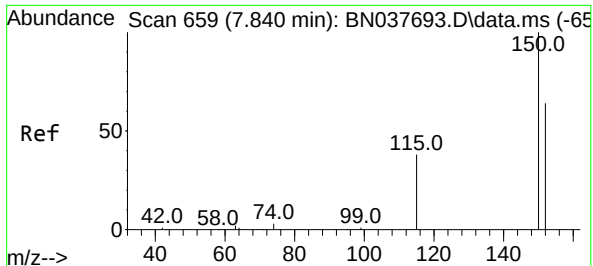
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

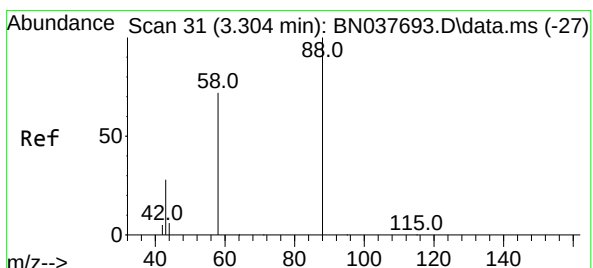
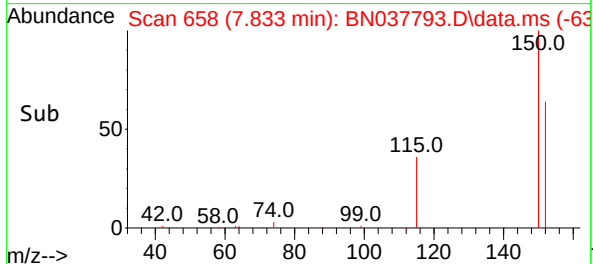
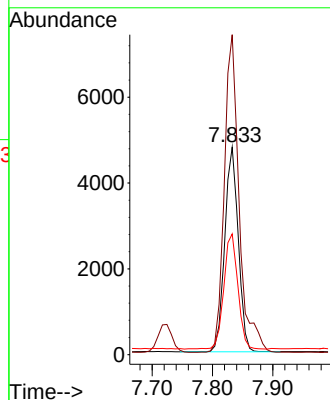
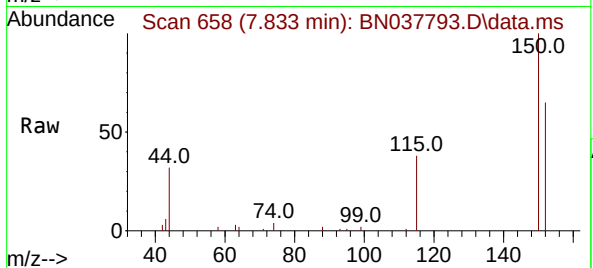




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

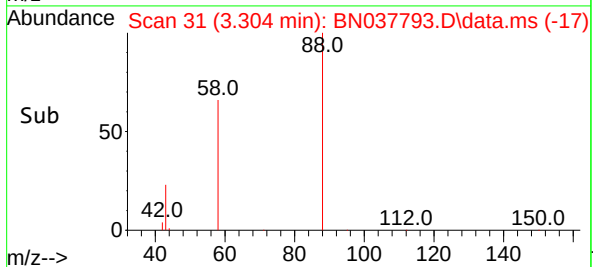
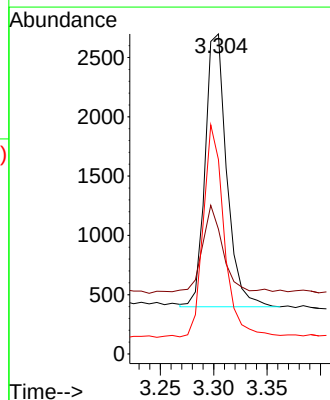
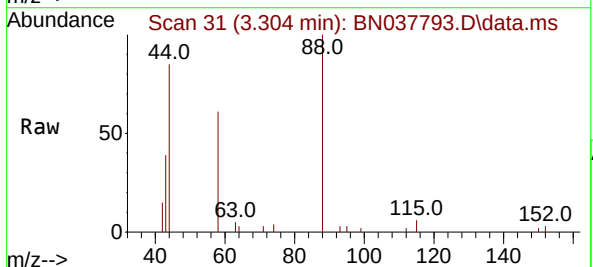
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 7441
Ion Ratio Lower Upper
152 100
150 154.3 124.5 186.7
115 58.3 49.2 73.8

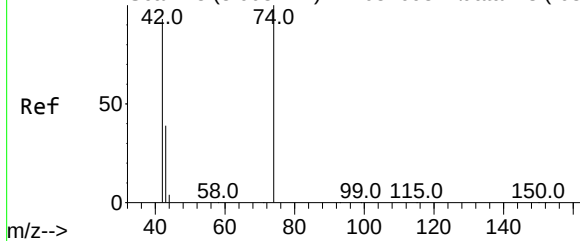


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

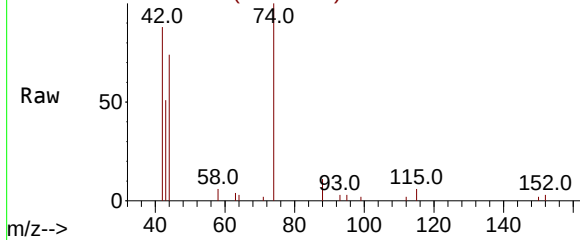
Tgt Ion: 88 Resp: 3241
Ion Ratio Lower Upper
88 100
43 31.9 26.8 40.2
58 76.1 61.9 92.9



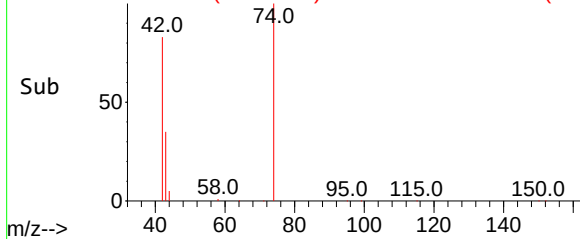
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 73 (3.608 min): BN037793.D\data.ms



Abundance Scan 73 (3.608 min): BN037793.D\data.ms (-52)



#3

n-Nitrosodimethylamine

Concen: 0.372 ng

RT: 3.608 min Scan# 71

Delta R.T. -0.000 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Instrument :

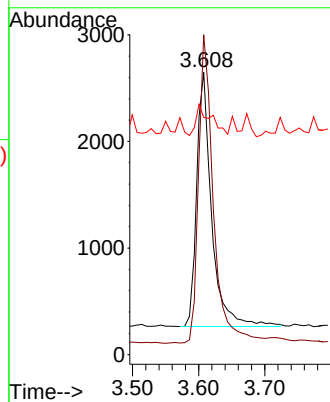
BNA_N

ClientSampleId :

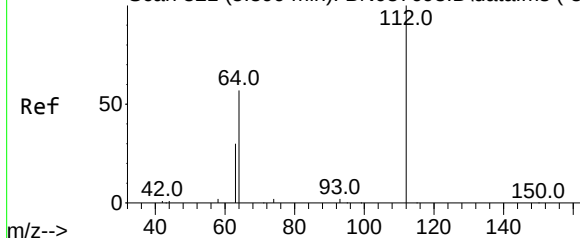
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 3766

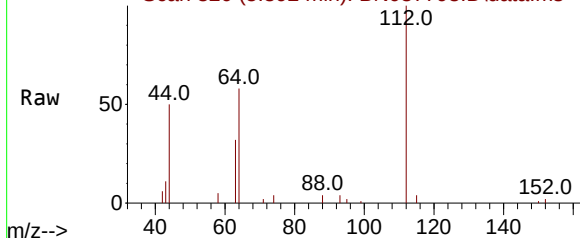
Ion	Ratio	Lower	Upper
42	100		
74	120.8	86.0	129.0
44	12.6	8.4	12.6



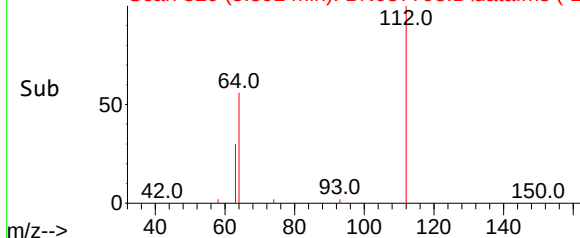
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037793.D\data.ms



Abundance Scan 320 (5.392 min): BN037793.D\data.ms (-29)



#4

2-Fluorophenol

Concen: 0.402 ng

RT: 5.392 min Scan# 320

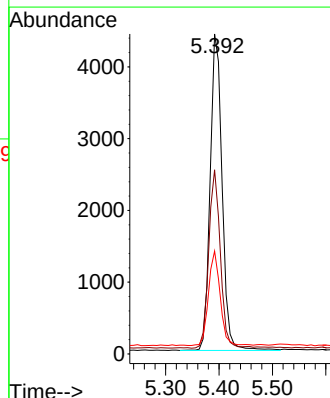
Delta R.T. -0.007 min

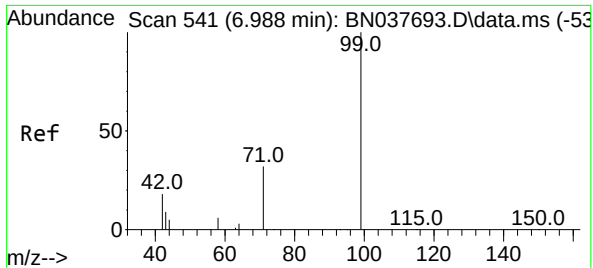
Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Tgt Ion: 112 Resp: 6868

Ion	Ratio	Lower	Upper
112	100		
64	55.9	44.9	67.3
63	29.2	24.7	37.1

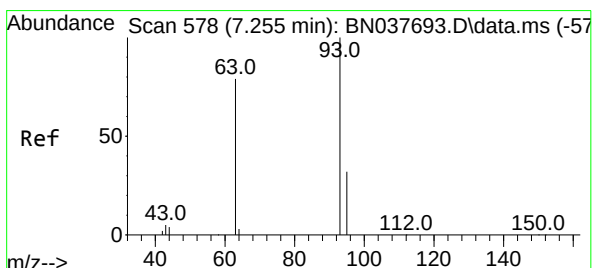
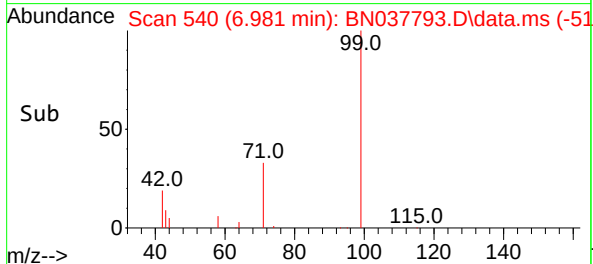
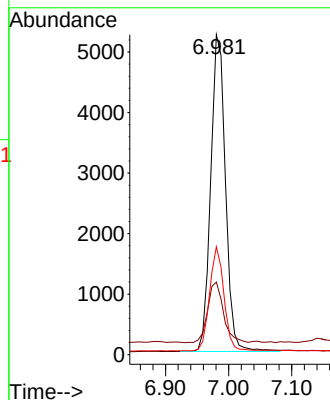
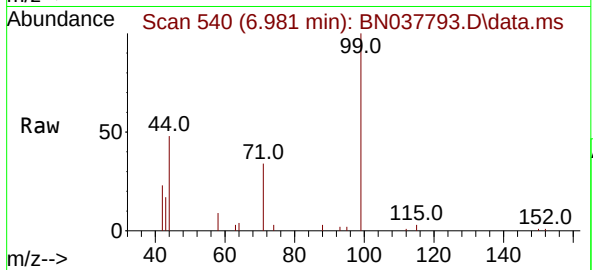




#5
Phenol-d6
Concen: 0.386 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

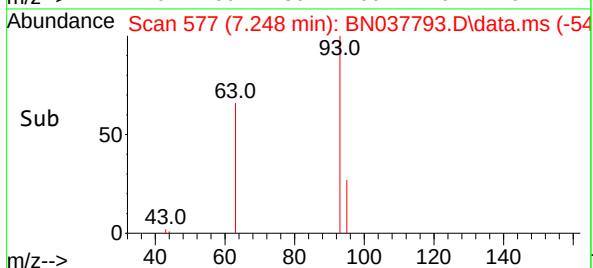
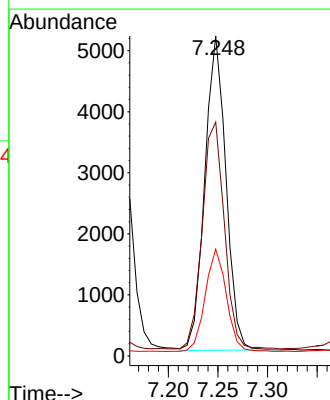
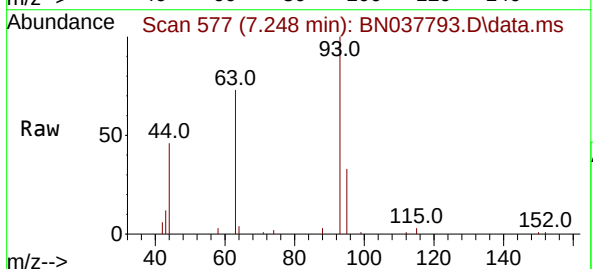
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

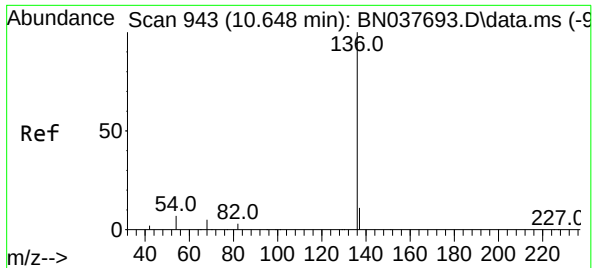
Tgt Ion: 99 Resp: 8539
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 32.6 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion: 93 Resp: 7648
Ion Ratio Lower Upper
93 100
63 75.3 60.6 90.8
95 32.6 26.0 39.0

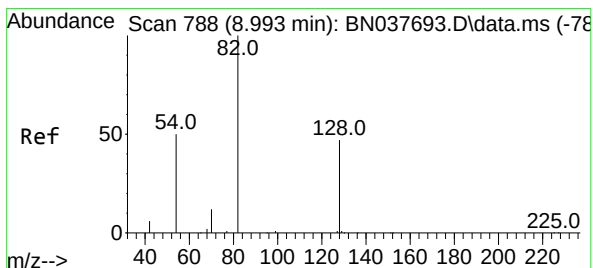
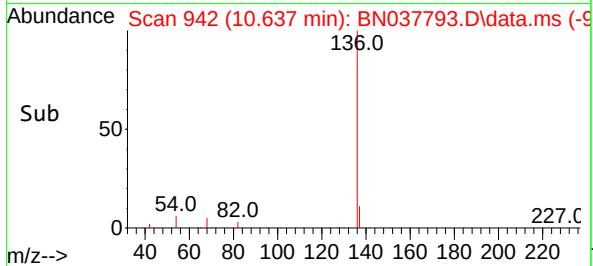
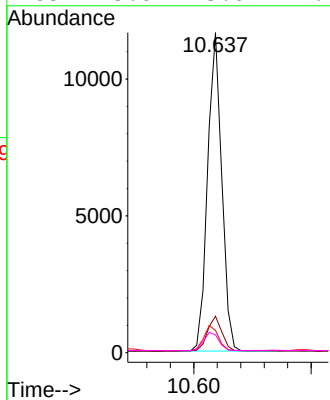
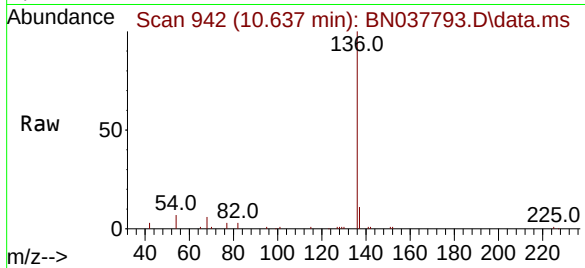




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

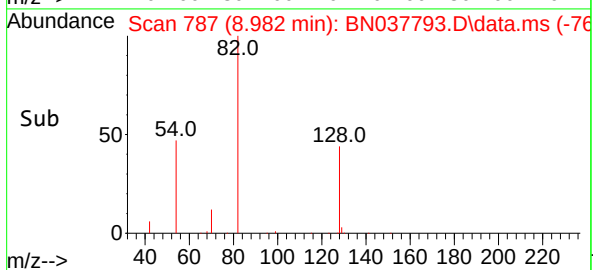
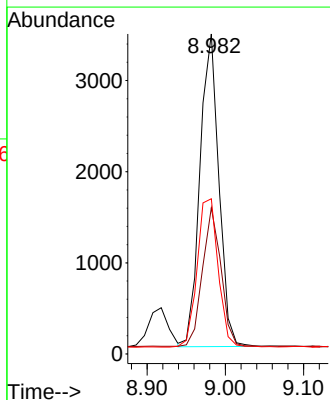
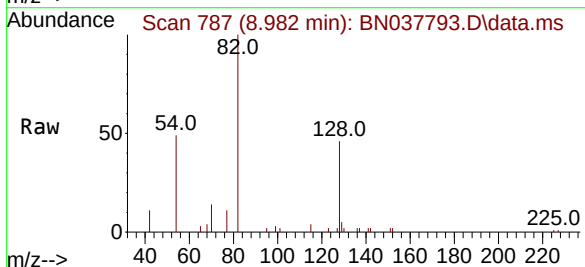
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

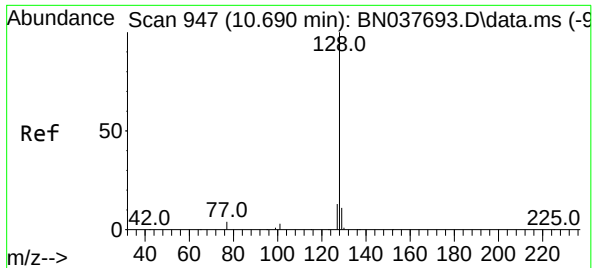
Tgt Ion:	136	Resp:	19492
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.9	6.3	9.5
68	5.6	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:	82	Resp:	5756
Ion	Ratio	Lower	Upper
82	100		
128	45.7	38.3	57.5
54	48.5	41.4	62.2

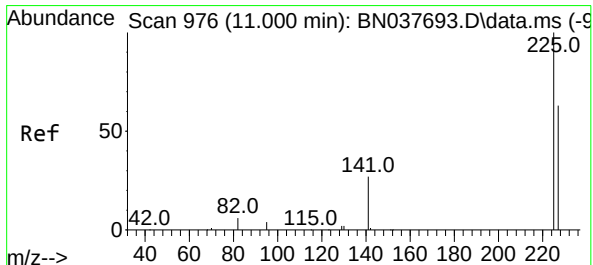
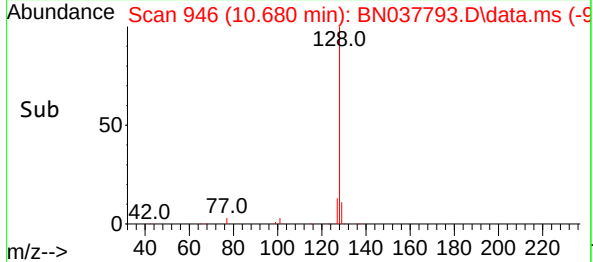
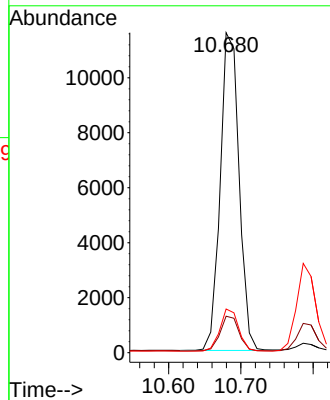
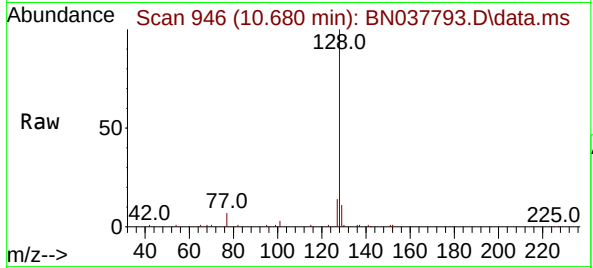




#9
Naphthalene
Concen: 0.393 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

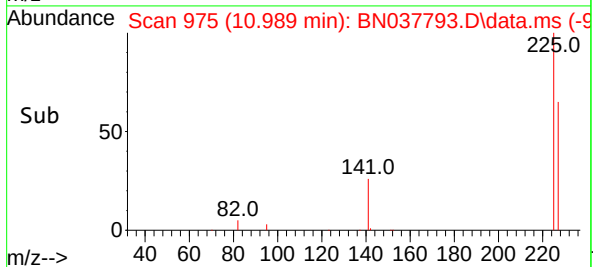
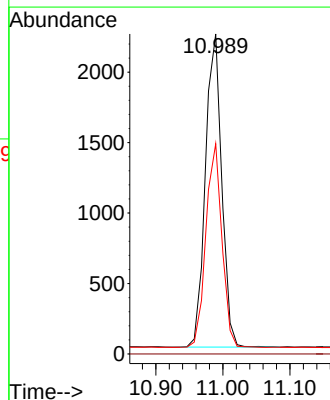
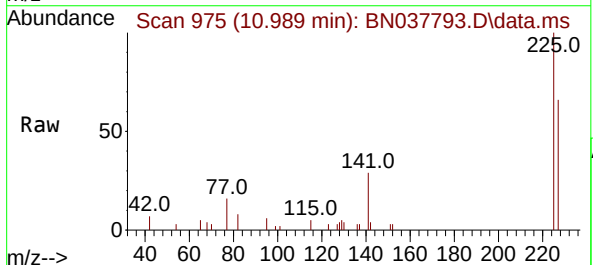
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

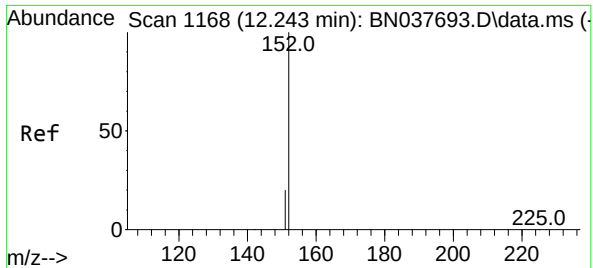
Tgt Ion:	128	Resp:	20919
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.7	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:	225	Resp:	3750
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.9	76.3

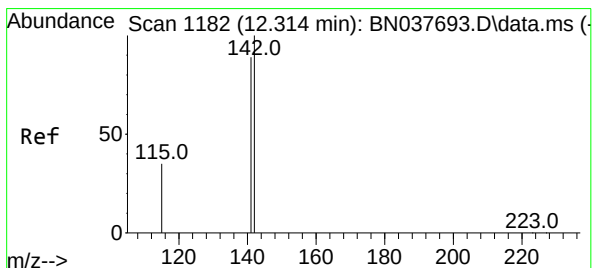
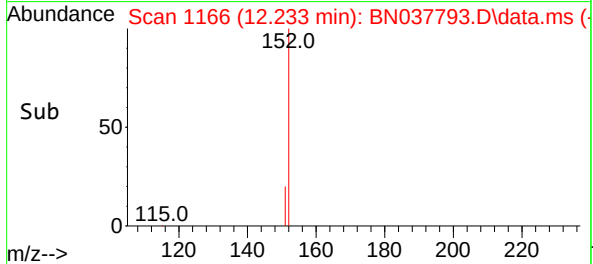
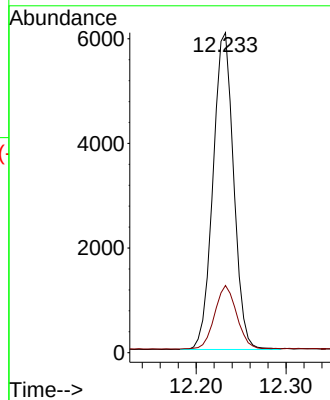
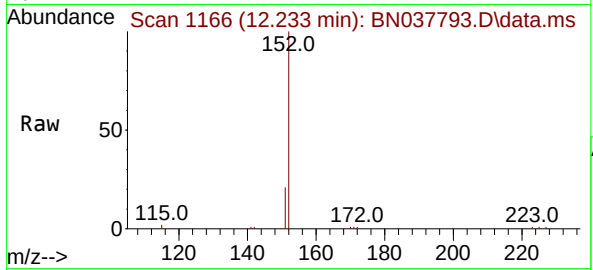




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

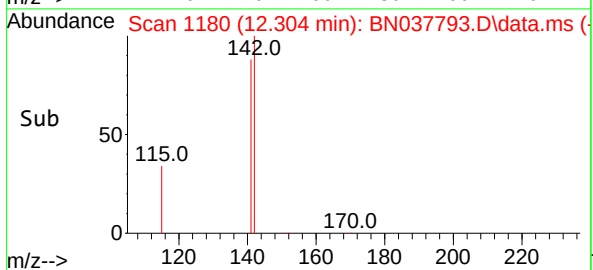
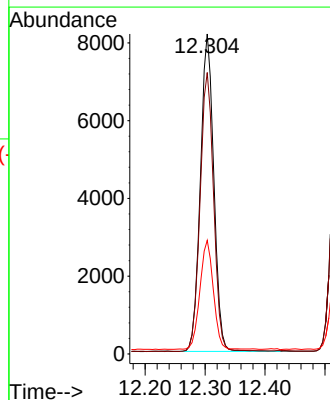
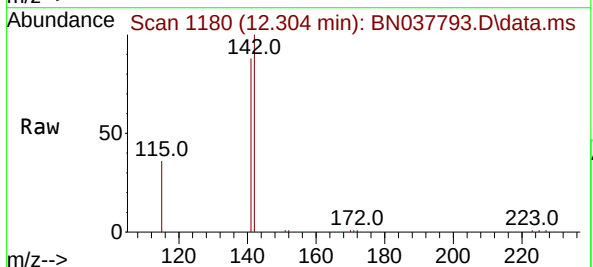
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

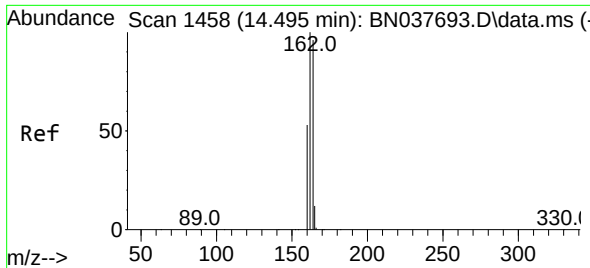
Tgt Ion:152 Resp: 9662
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:142 Resp: 12695
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 35.5 28.6 43.0

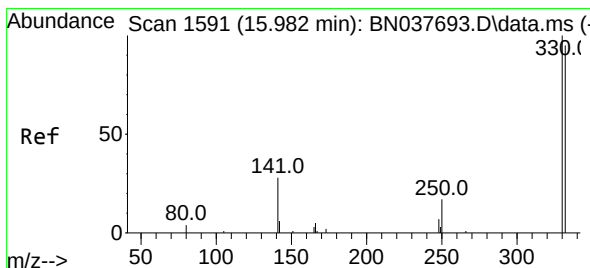
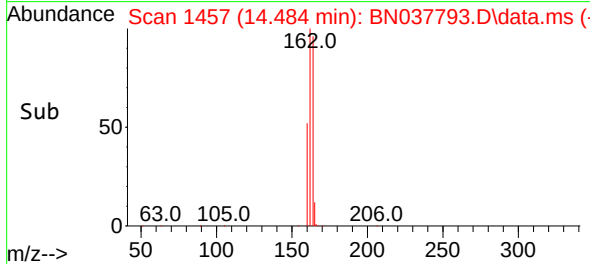
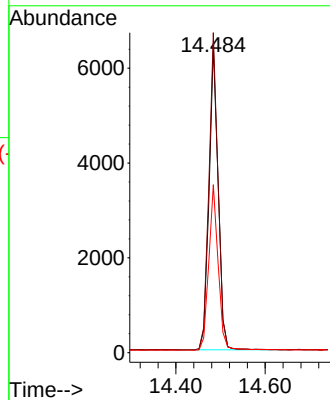
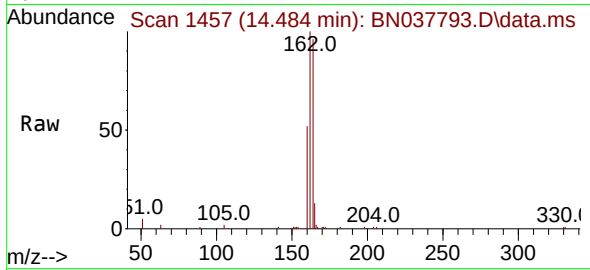




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

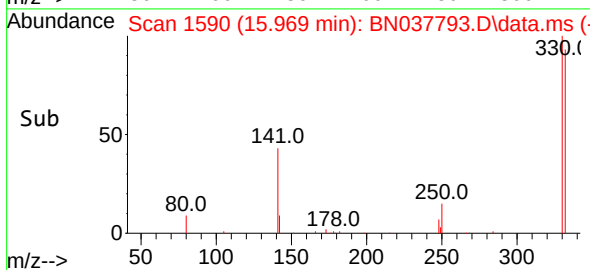
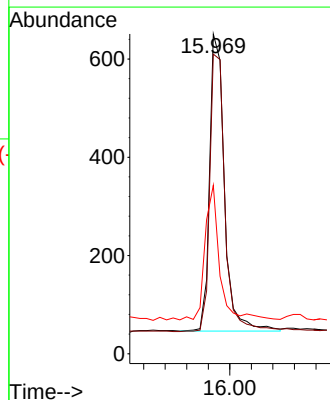
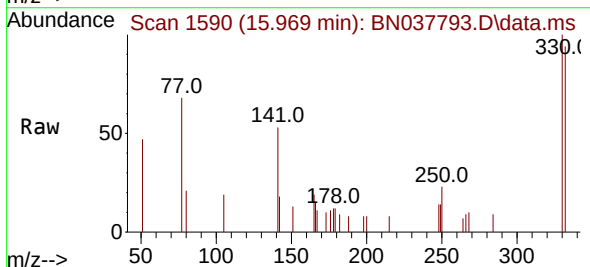
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

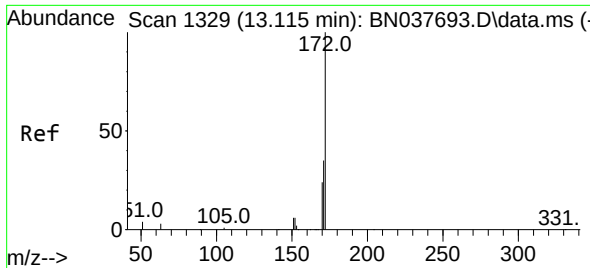
Tgt Ion:164 Resp: 9091
Ion Ratio Lower Upper
164 100
162 104.3 83.1 124.7
160 54.7 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.488 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:330 Resp: 1156
Ion Ratio Lower Upper
330 100
332 96.0 75.3 112.9
141 44.0 35.0 52.4

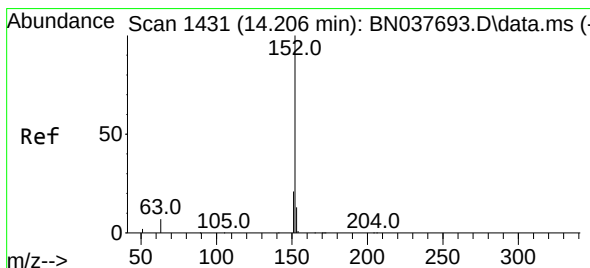
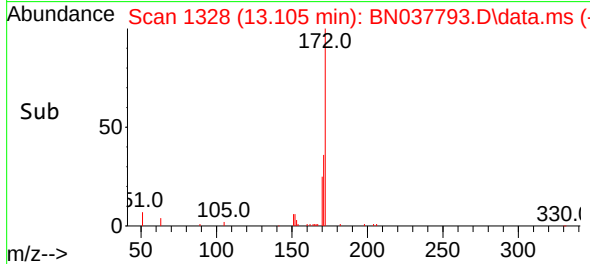
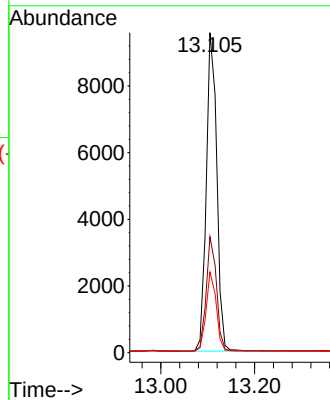
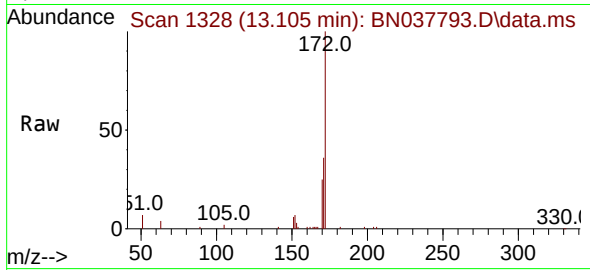




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

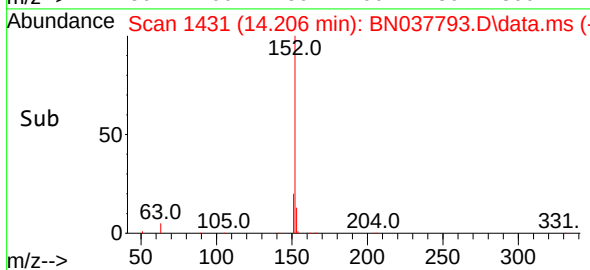
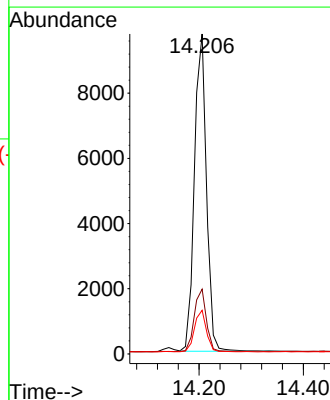
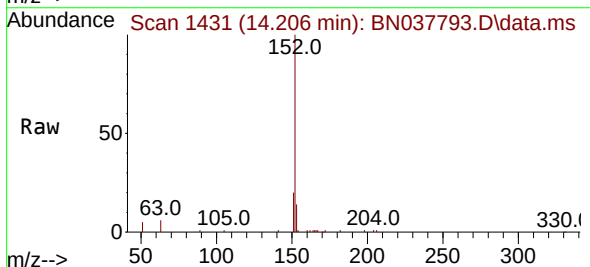
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

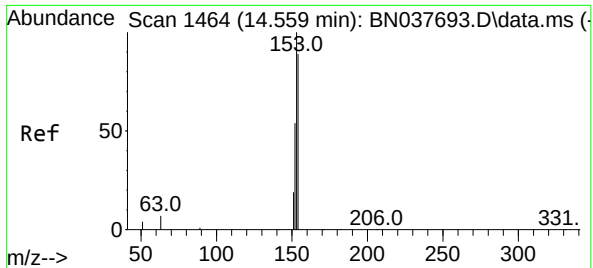
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	25.2	19.8	29.8



#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.2	10.4	15.6

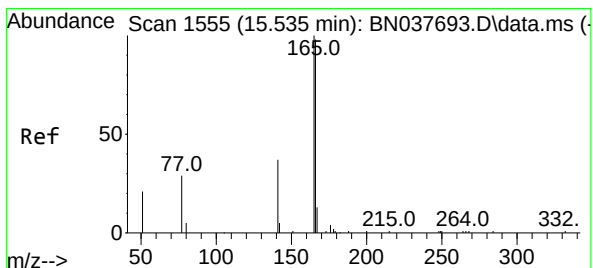
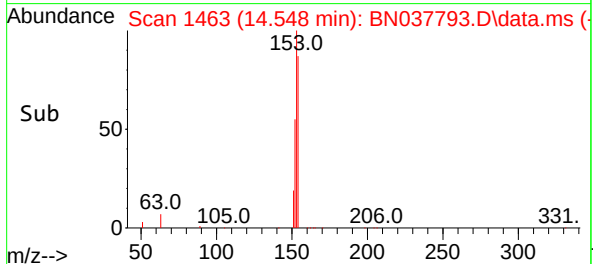
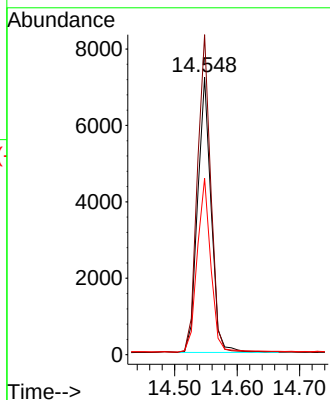
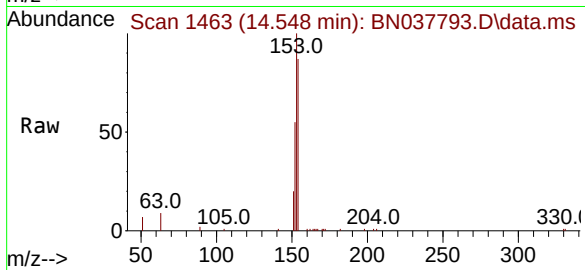




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

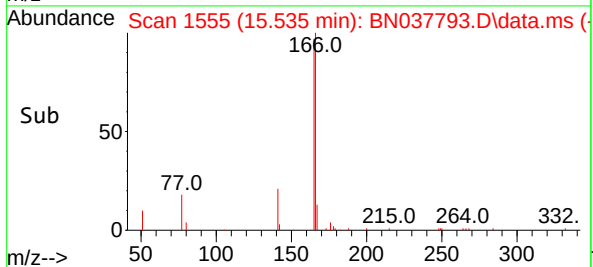
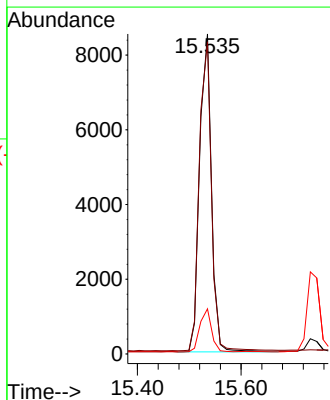
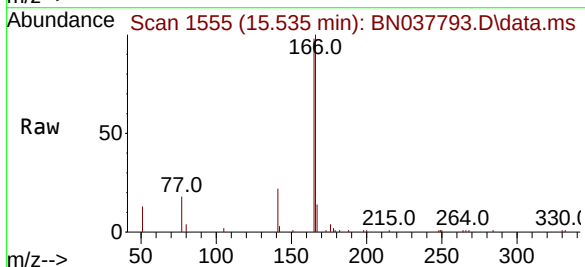
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

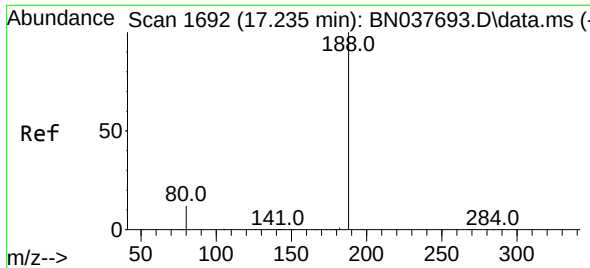
Tgt Ion:154 Resp: 10816
Ion Ratio Lower Upper
154 100
153 114.7 89.8 134.8
152 63.7 50.2 75.2



#18
Fluorene
Concen: 0.386 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:166 Resp: 13166
Ion Ratio Lower Upper
166 100
165 97.1 79.6 119.4
167 13.2 10.6 16.0

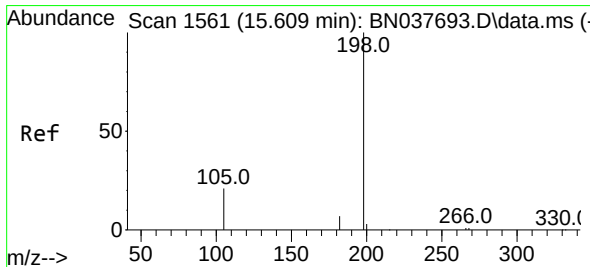
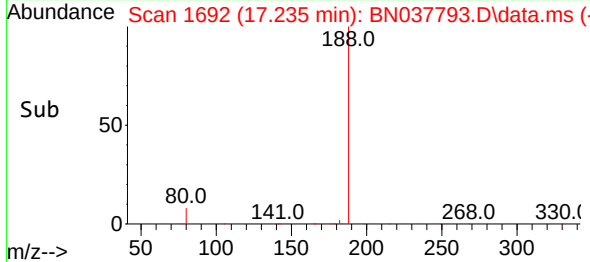
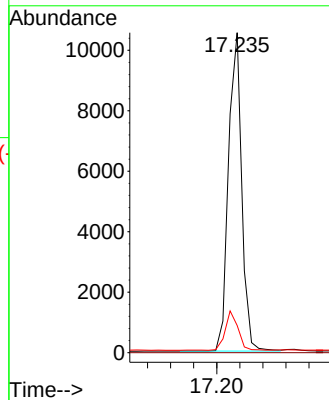
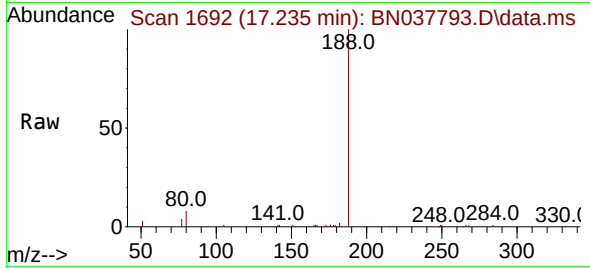




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

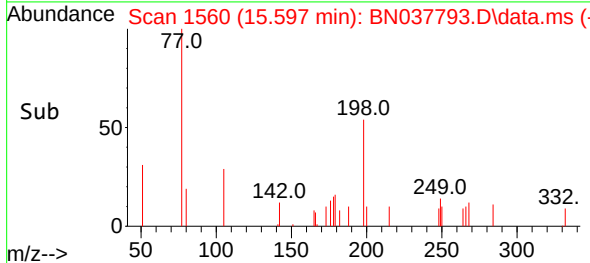
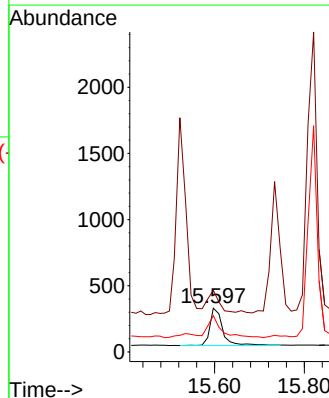
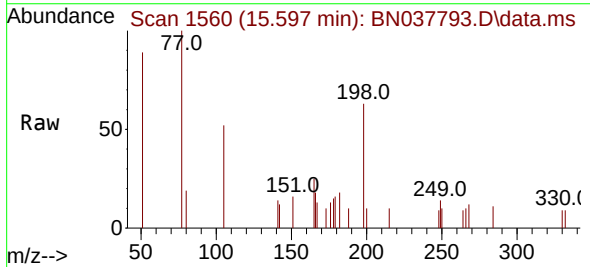
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

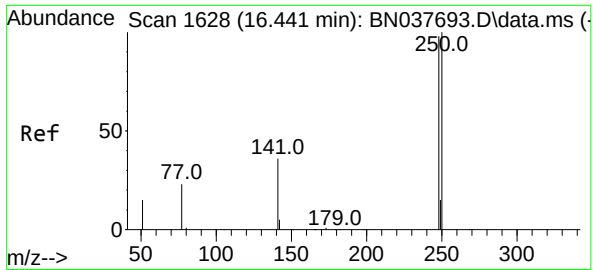
Tgt Ion	188	Resp	16806
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.5	10.6	15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.362 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	198	Resp	563
Ion Ratio	Lower	Upper	
198	100		
51	140.5	95.1	142.7
105	82.8	53.8	80.6#

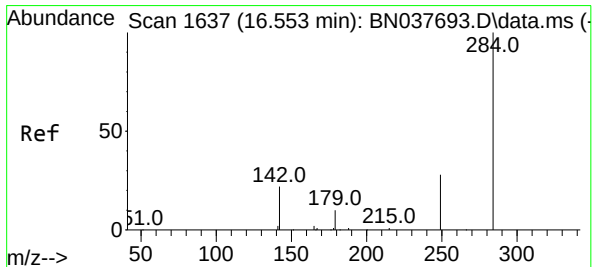
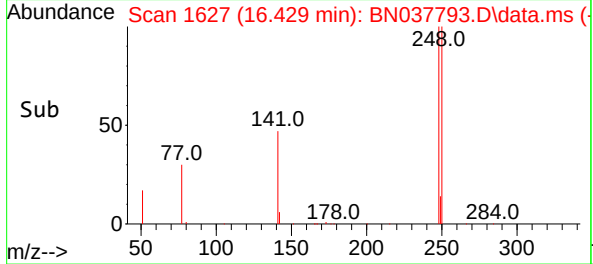
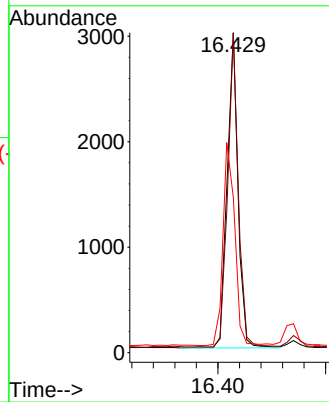
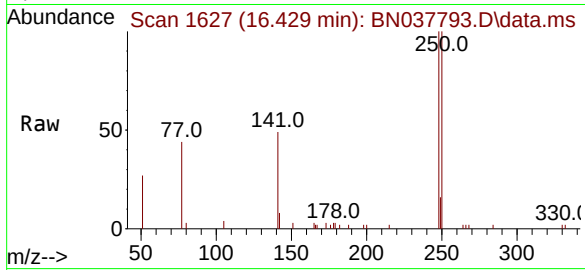




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

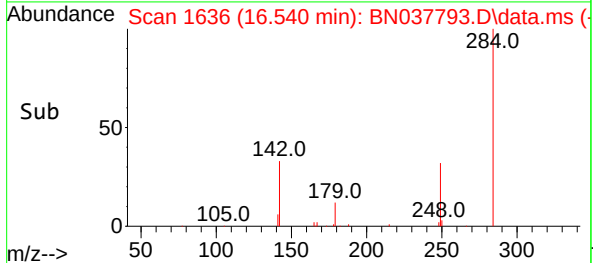
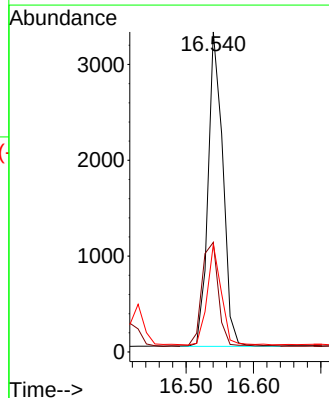
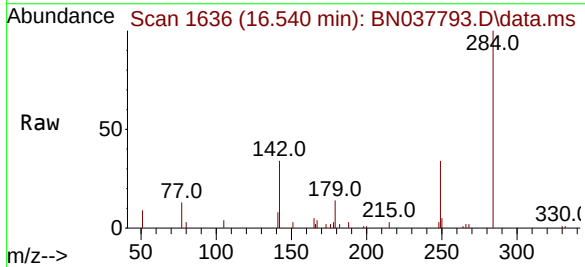
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

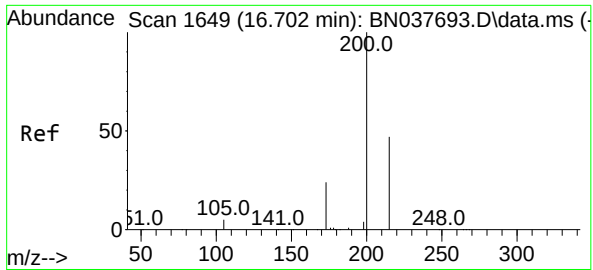
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.9	81.5	122.3
141	48.5	30.8	46.2#



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.4	24.8	37.2

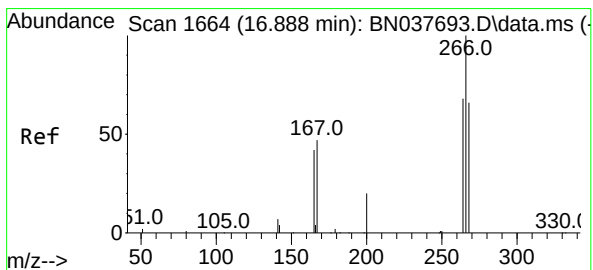
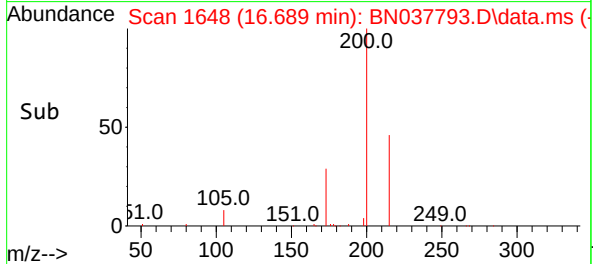
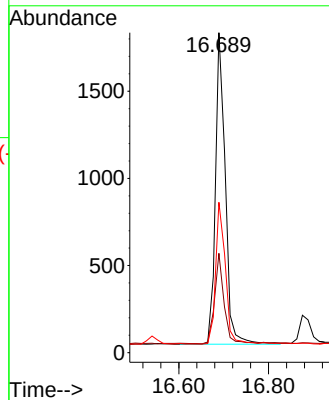
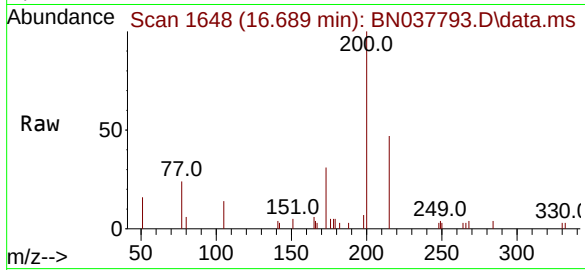




#23
Atrazine
Concen: 0.387 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

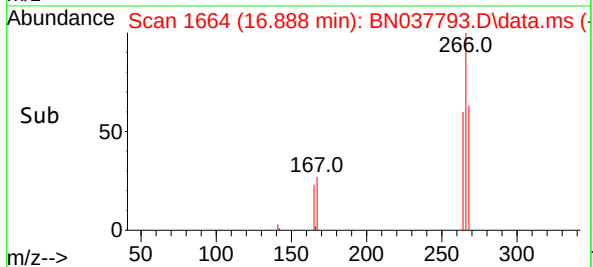
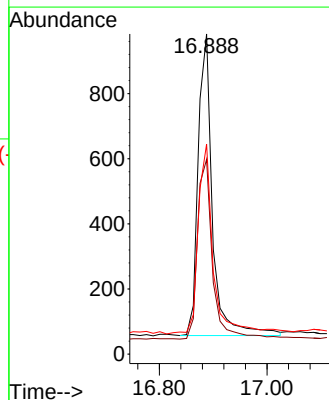
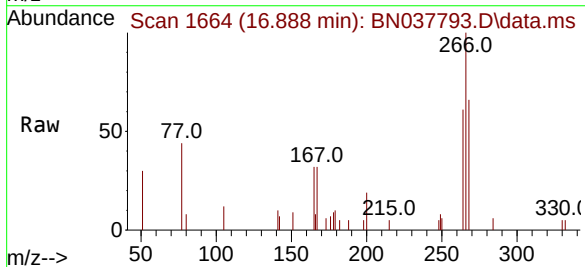
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

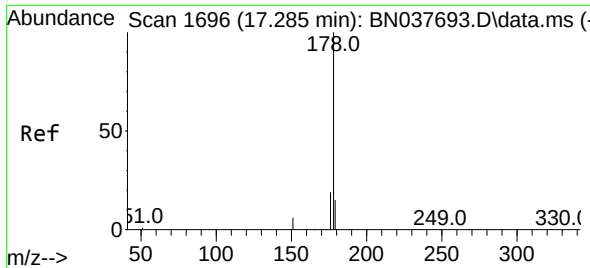
Tgt Ion:200 Resp: 2701
Ion Ratio Lower Upper
200 100
173 31.0 21.4 32.2
215 47.0 39.2 58.8



#24
Pentachlorophenol
Concen: 0.470 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:266 Resp: 1719
Ion Ratio Lower Upper
266 100
264 62.7 51.6 77.4
268 67.0 53.2 79.8

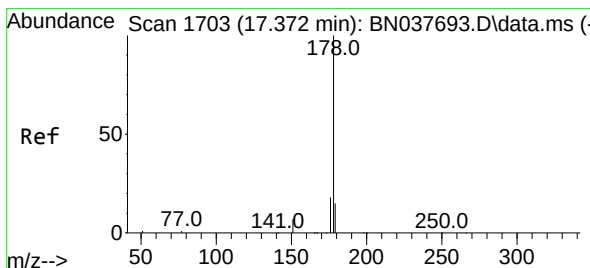
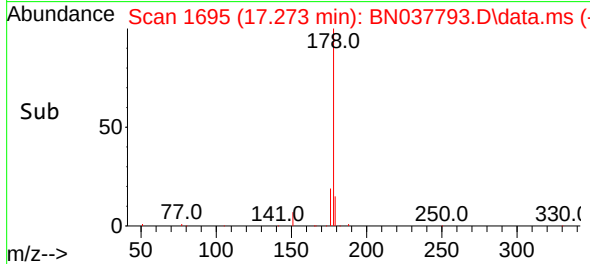
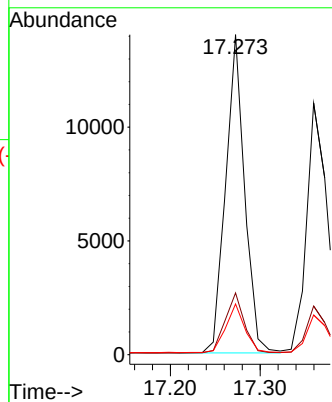
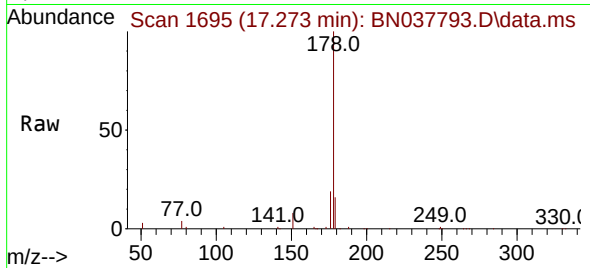




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

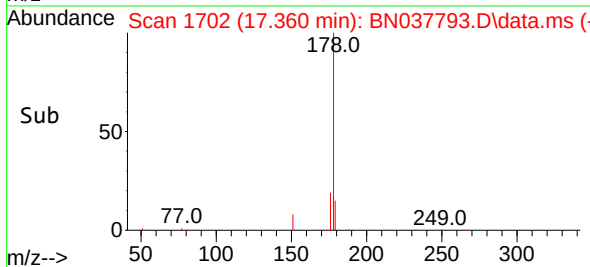
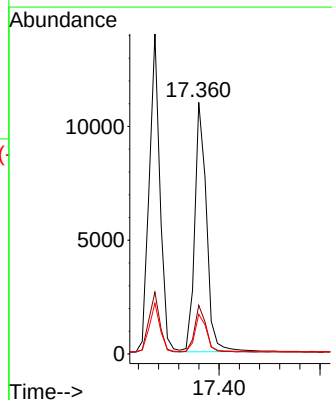
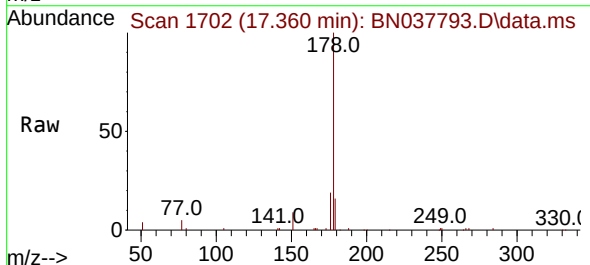
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

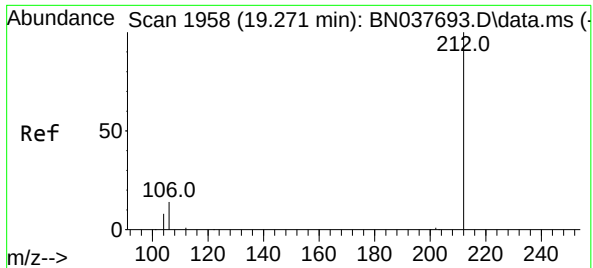
Tgt Ion:178 Resp: 20559
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.378 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:178 Resp: 17722
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.2 12.2 18.4

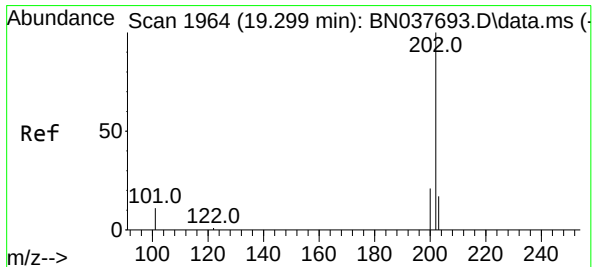
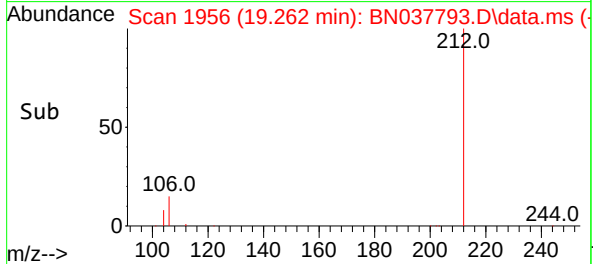
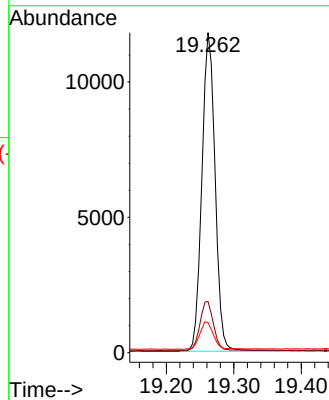
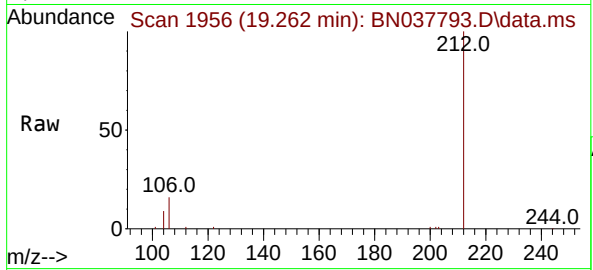




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

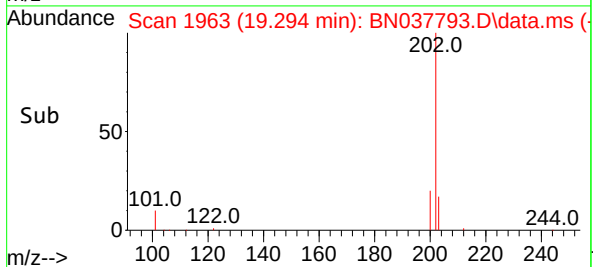
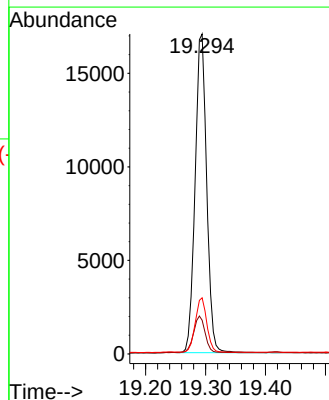
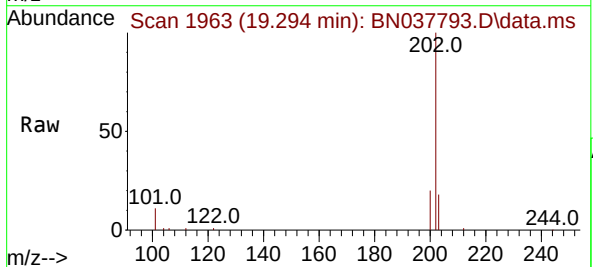
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

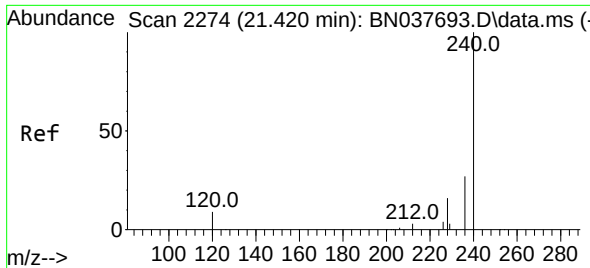
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.394 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	16.9	13.7	20.5

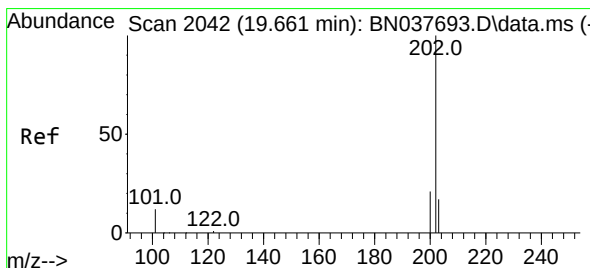
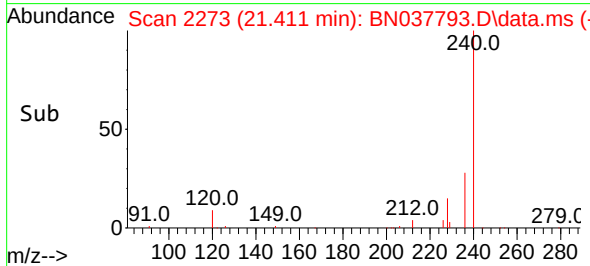
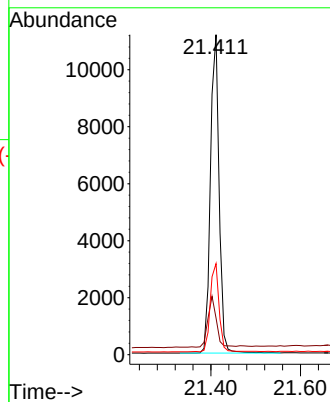
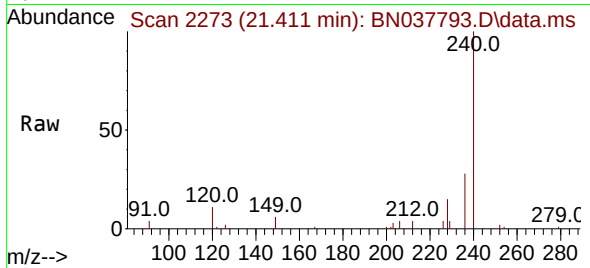




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

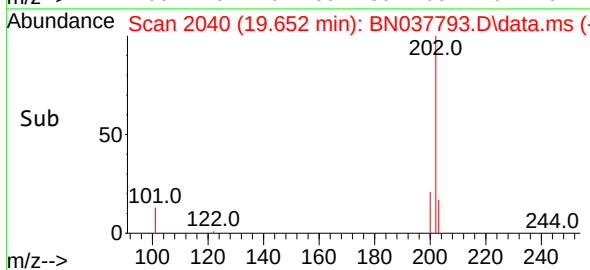
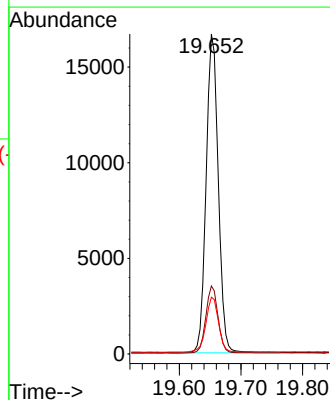
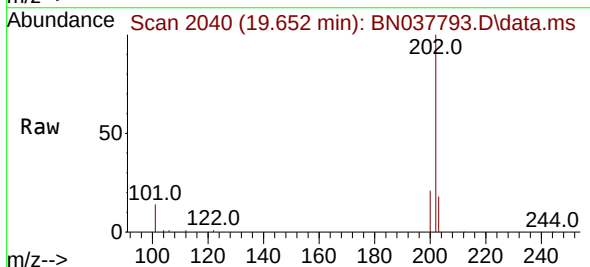
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

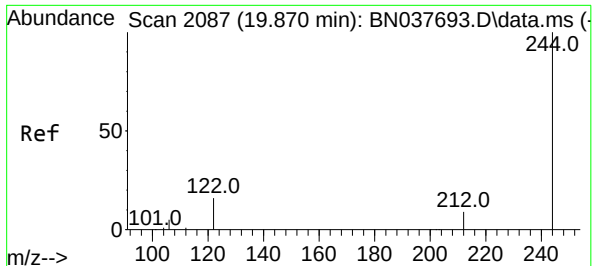
Tgt Ion:240 Resp: 15128
Ion Ratio Lower Upper
240 100
120 11.5 9.2 13.8
236 28.5 22.6 33.8



#30
Pyrene
Concen: 0.384 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:202 Resp: 22743
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 18.0 14.3 21.5

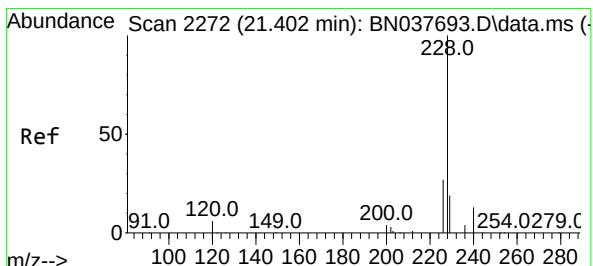
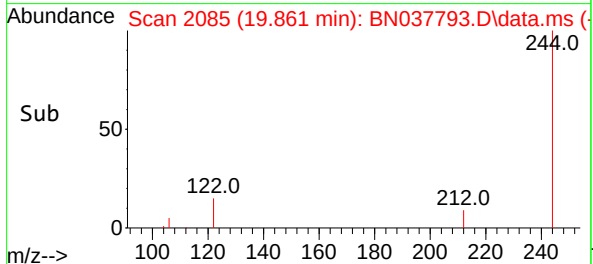
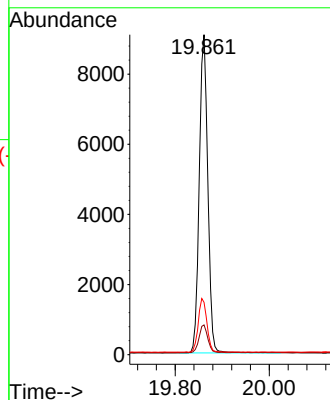
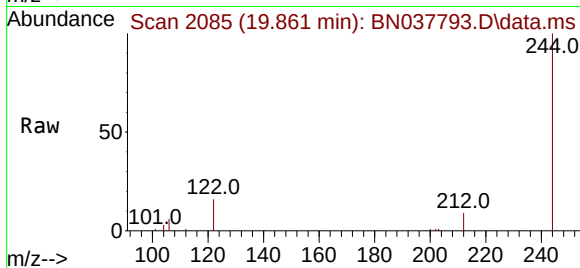




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

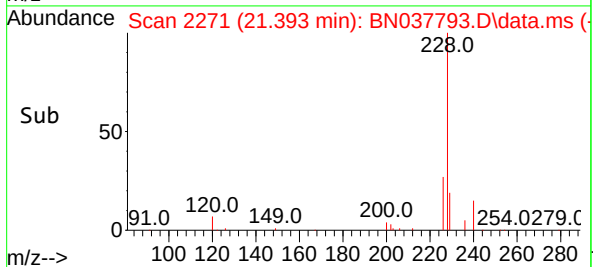
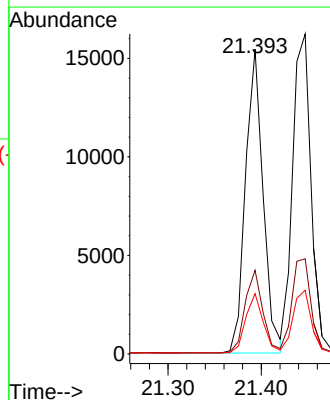
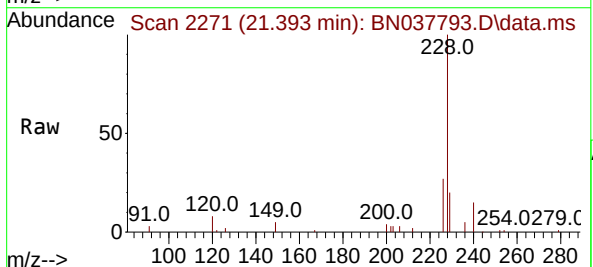
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

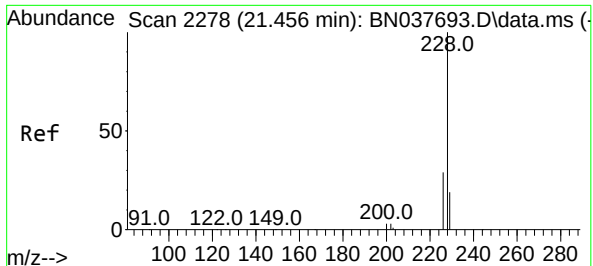
Tgt Ion:244 Resp: 11883
Ion Ratio Lower Upper
244 100
212 9.3 7.5 11.3
122 16.4 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:228 Resp: 20290
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.8 15.8 23.6

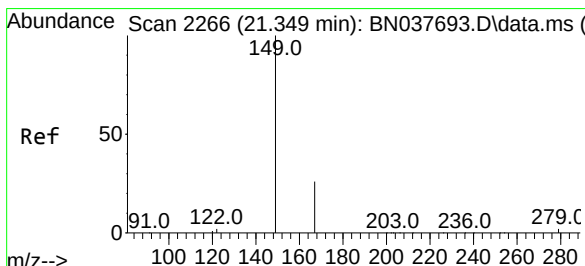
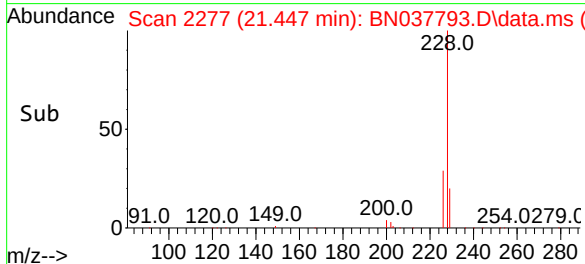
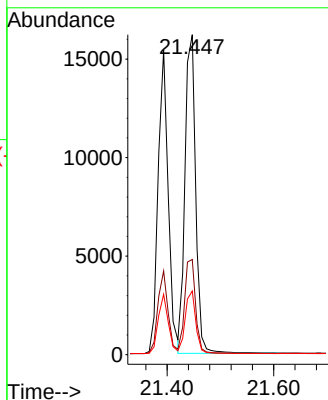
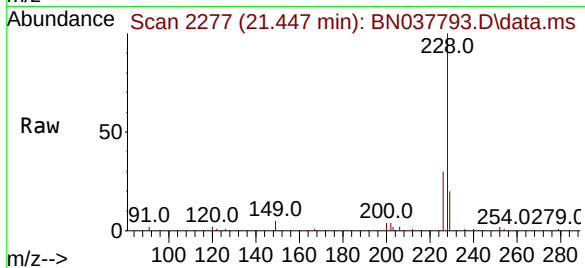




#33
Chrysene
Concen: 0.399 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

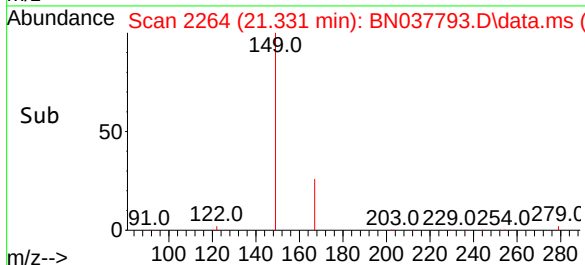
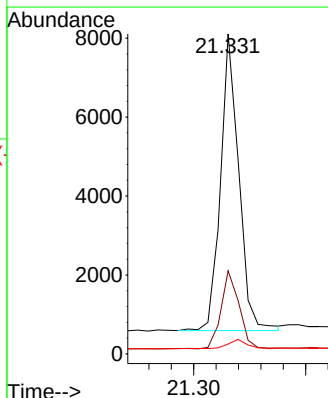
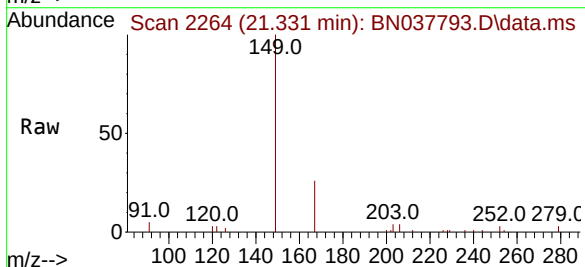
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

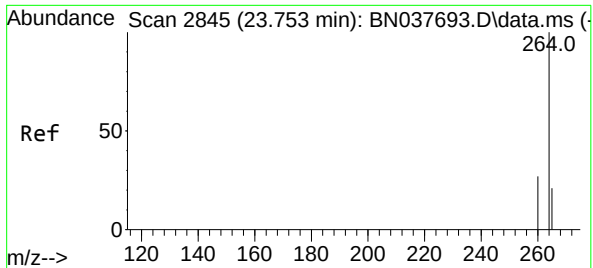
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.5	35.3
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.545 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.8	31.2
279	3.3	3.3	4.9

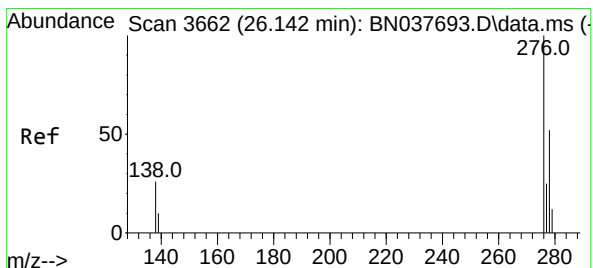
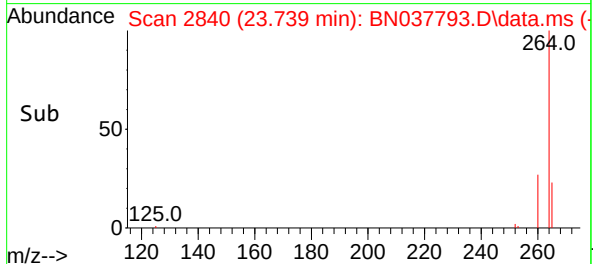
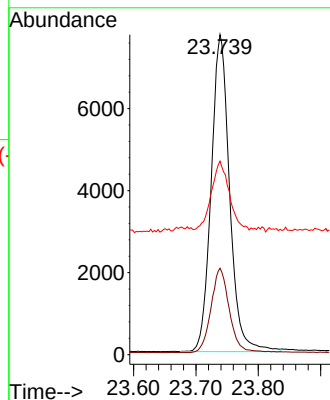
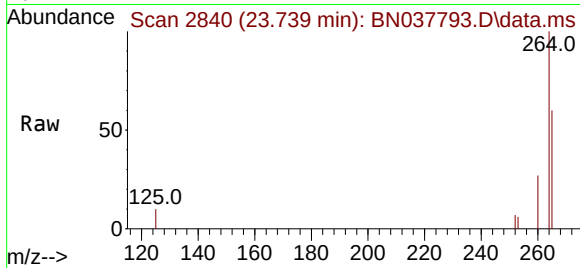




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

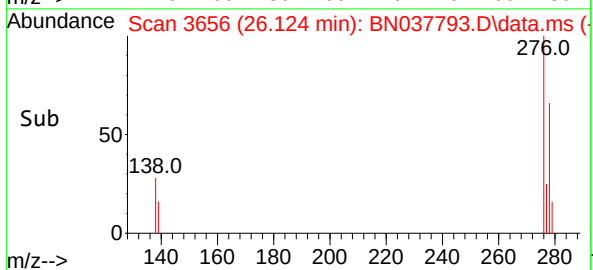
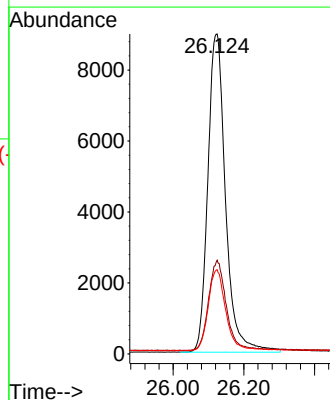
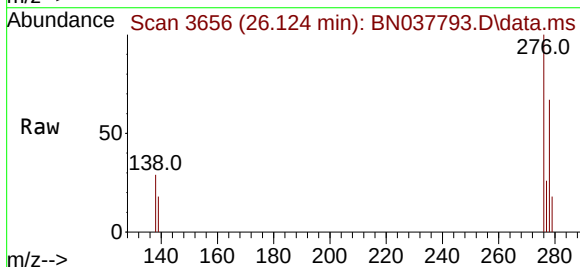
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

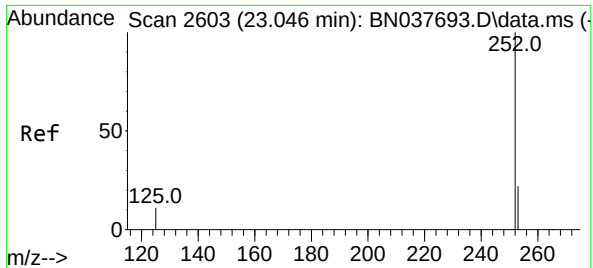
Tgt Ion	264	260	265
Resp:	15864		
Ion Ratio	100	27.0	60.5
Lower		21.8	39.4
Upper		32.8	59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.467 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion	276	138	277
Resp:	31159		
Ion Ratio	100	28.2	25.3
Lower		21.9	20.1
Upper		32.9	30.1

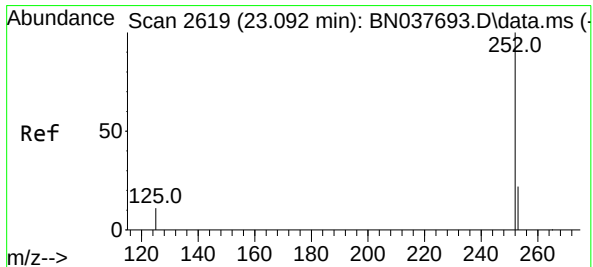
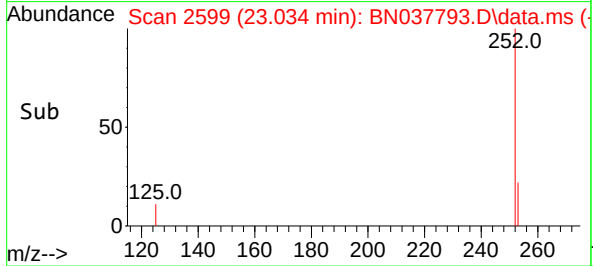
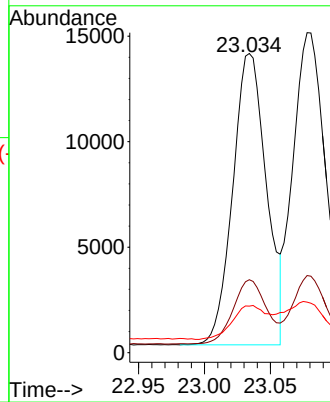
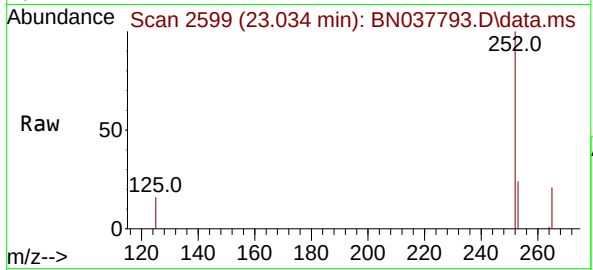




#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 23.034 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

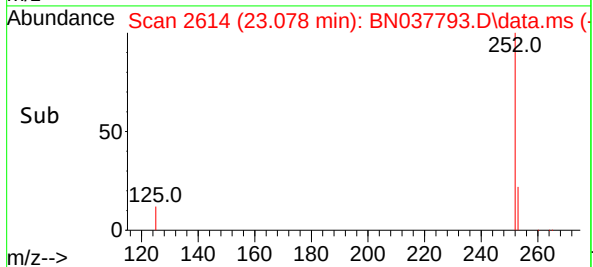
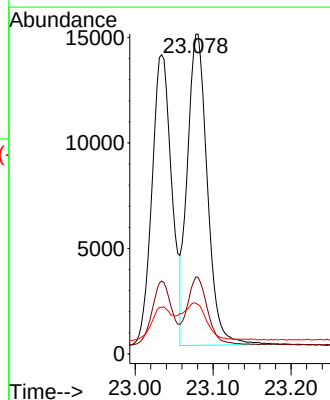
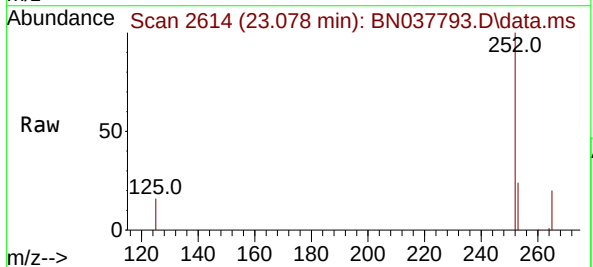
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

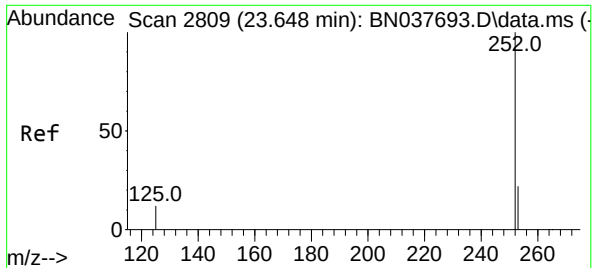
Tgt Ion:252 Resp: 24537
Ion Ratio Lower Upper
252 100
253 24.4 19.4 29.2
125 15.6 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.078 min Scan# 2614
Delta R.T. -0.015 min
Lab File: BN037793.D
Acq: 19 Sep 2025 00:52

Tgt Ion:252 Resp: 26227
Ion Ratio Lower Upper
252 100
253 24.1 19.4 29.0
125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

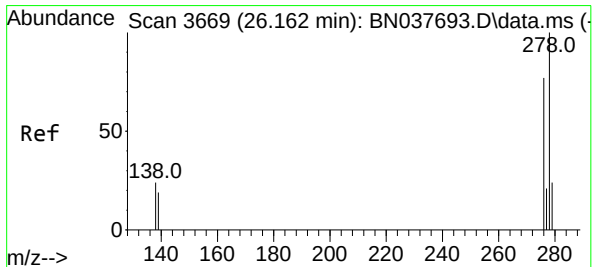
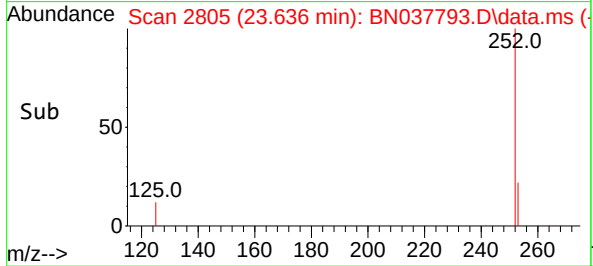
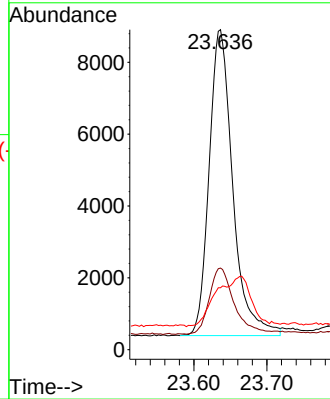
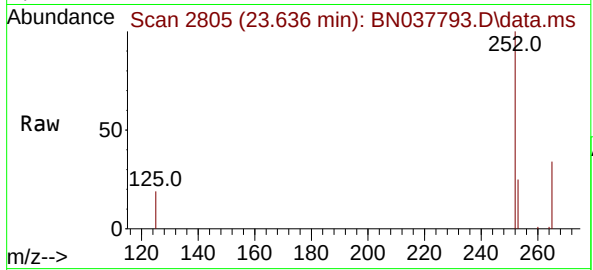
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	252	Resp:	19199
Ion Ratio	Lower	Upper	
252	100		
253	25.5	20.8	31.2
125	19.4	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.459 ng

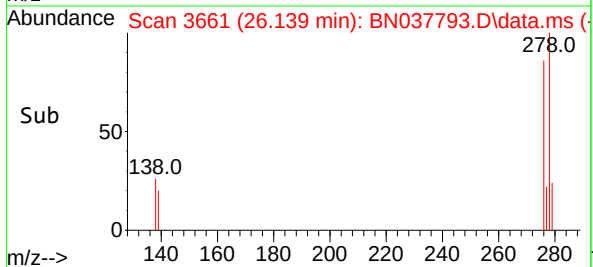
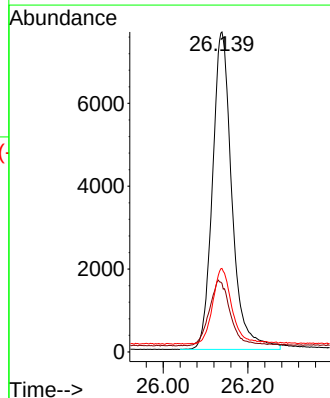
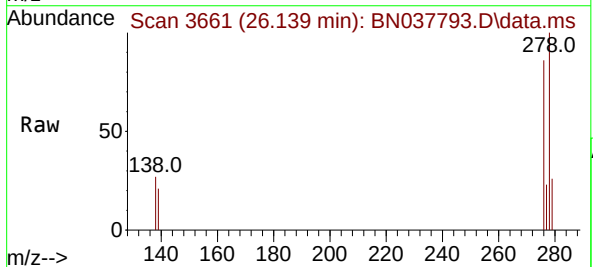
RT: 26.139 min Scan# 3661

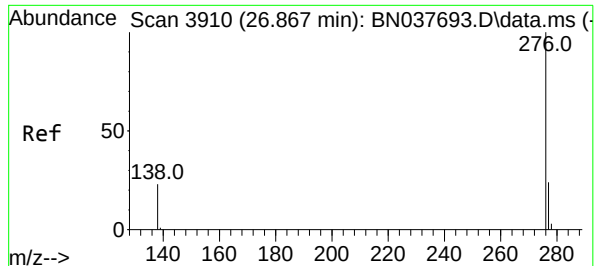
Delta R.T. -0.023 min

Lab File: BN037793.D

Acq: 19 Sep 2025 00:52

Tgt Ion:	278	Resp:	24445
Ion Ratio	Lower	Upper	
278	100		
139	21.4	17.8	26.6
279	26.1	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.846 min Scan# 3910

Delta R.T. -0.021 min

Lab File: BN037793.D

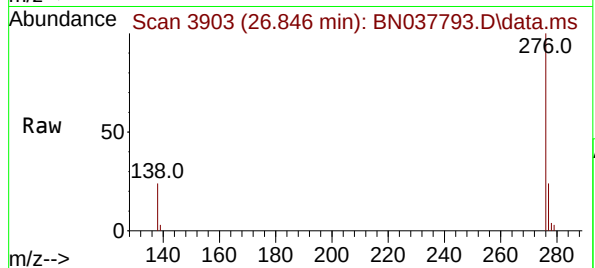
Acq: 19 Sep 2025 00:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



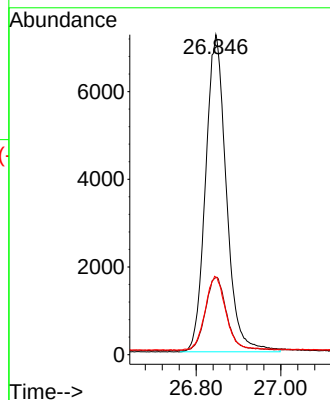
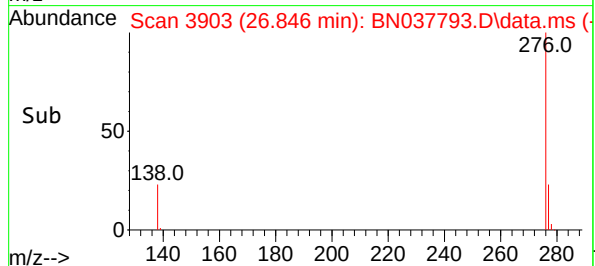
Tgt Ion:276 Resp: 24646

Ion Ratio Lower Upper

276 100

277 24.1 20.6 31.0

138 24.2 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	149	0.00
2	1,4-Dioxane	0.417	0.436	-4.6	154#	0.00
3	n-Nitrosodimethylamine	0.544	0.506	7.0	134	0.00
4 S	2-Fluorophenol	0.918	0.923	-0.5	154#	0.00
5 S	Phenol-d6	1.191	1.148	3.6	148	0.00
6	bis(2-Chloroethyl)ether	1.064	1.028	3.4	143	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	147	-0.01
8 S	Nitrobenzene-d5	0.293	0.295	-0.7	153#	-0.01
9	Naphthalene	1.093	1.073	1.8	147	-0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.496	6.4	146	-0.01
12	2-Methylnaphthalene	0.676	0.651	3.7	145	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.127	-22.1	185#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.632	2.5	145	-0.01
16	Acenaphthylene	1.834	1.727	5.8	142	0.00
17	Acenaphthene	1.240	1.190	4.0	143	-0.01
18	Fluorene	1.502	1.448	3.6	147	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	149	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.033	10.8	151#	-0.01
21	4-Bromophenyl-phenylether	0.261	0.250	4.2	148	-0.01
22	Hexachlorobenzene	0.300	0.298	0.7	151#	-0.01
23	Atrazine	0.166	0.161	3.0	158#	-0.01
24	Pentachlorophenol	0.087	0.102	-17.2	205#	0.00
25	Phenanthrene	1.259	1.223	2.9	149	-0.01
26	Anthracene	1.116	1.055	5.5	147	-0.01
27 SURR	Fluoranthene-d10	1.004	0.954	5.0	152#	0.00
28	Fluoranthene	1.381	1.359	1.6	155#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	161#	0.00
30	Pyrene	1.566	1.503	4.0	156#	0.00
31 S	Terphenyl-d14	0.812	0.785	3.3	158#	0.00
32	Benzo(a)anthracene	1.395	1.341	3.9	161#	0.00
33	Chrysene	1.496	1.492	0.3	161#	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.563	-36.0#	242#	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	177#	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.964	-16.8	225#	-0.02
37	Benzo(b)fluoranthene	1.575	1.547	1.8	176#	-0.01
38	Benzo(k)fluoranthene	1.606	1.653	-2.9	192#	-0.01
39 C	Benzo(a)pyrene	1.261	1.210	4.0	178#	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.541	-14.8	225#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.554	-3.2	189#	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037793.D
Acq On : 19 Sep 2025 00:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	149	0.00
2	1,4-Dioxane	0.400	0.418	-4.5	154	0.00
3	n-Nitrosodimethylamine	0.400	0.372	7.0	134	0.00
4 S	2-Fluorophenol	0.400	0.402	-0.5	154	0.00
5 S	Phenol-d6	0.400	0.386	3.5	148	0.00
6	bis(2-Chloroethyl)ether	0.400	0.386	3.5	143	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	147	-0.01
8 S	Nitrobenzene-d5	0.400	0.404	-1.0	153	-0.01
9	Naphthalene	0.400	0.393	1.8	147	-0.01
10	Hexachlorobutadiene	0.400	0.389	2.8	143	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	146	-0.01
12	2-Methylnaphthalene	0.400	0.385	3.8	145	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.488	-22.0	185	-0.01
15 S	2-Fluorobiphenyl	0.400	0.390	2.5	145	-0.01
16	Acenaphthylene	0.400	0.377	5.8	142	0.00
17	Acenaphthene	0.400	0.384	4.0	143	-0.01
18	Fluorene	0.400	0.386	3.5	147	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	149	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.362	9.5	151	-0.01
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	148	-0.01
22	Hexachlorobenzene	0.400	0.397	0.8	151	-0.01
23	Atrazine	0.400	0.387	3.3	158	-0.01
24	Pentachlorophenol	0.400	0.470	-17.5	205	0.00
25	Phenanthrene	0.400	0.389	2.8	149	-0.01
26	Anthracene	0.400	0.378	5.5	147	-0.01
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	152	0.00
28	Fluoranthene	0.400	0.394	1.5	155	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	161	0.00
30	Pyrene	0.400	0.384	4.0	156	0.00
31 S	Terphenyl-d14	0.400	0.387	3.3	158	0.00
32	Benzo(a)anthracene	0.400	0.385	3.8	161	0.00
33	Chrysene	0.400	0.399	0.3	161	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.545	-36.3#	242	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	177	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.467	-16.8	225	-0.02
37	Benzo(b)fluoranthene	0.400	0.393	1.8	176	-0.01
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	192	-0.01
39 C	Benzo(a)pyrene	0.400	0.384	4.0	178	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.459	-14.8	225	-0.02
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	189	-0.02

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 02:47
 Lab File ID: BN037795.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.490		-7.5	20.0
Fluoranthene-d10	1.004	0.858		-14.5	20.0
2-Fluorophenol	0.918	0.830		-9.6	20.0
Phenol-d6	1.191	1.152		-3.3	20.0
Nitrobenzene-d5	0.293	0.308		5.1	20.0
2-Fluorobiphenyl	1.673	1.696		1.4	20.0
2,4,6-Tribromophenol	0.104	0.120		15.4	20.0
Terphenyl-d14	0.812	0.771		-5.0	20.0
1,4-Dioxane	0.417	0.391		-6.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037795.D
 Acq On : 19 Sep 2025 02:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

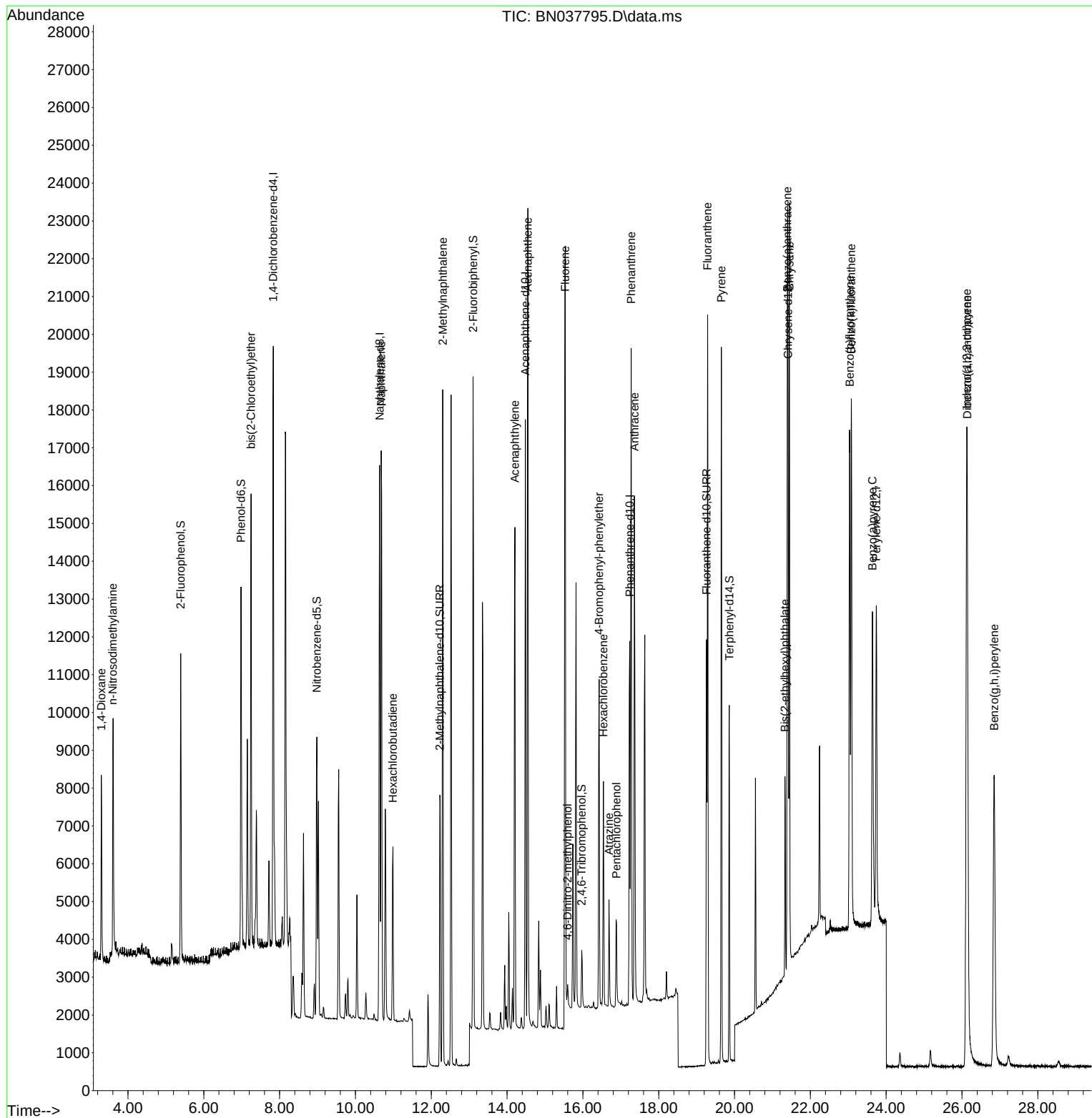
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7724	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19361	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8621	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14380	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11169	0.400	ng	0.00
35) Perylene-d12	23.742	264	11840	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6414	0.362	ng	0.00
5) Phenol-d6	6.981	99	8898	0.387	ng	0.00
8) Nitrobenzene-d5	8.982	82	5961	0.421	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	9493	0.370	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	1034	0.460	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	14625	0.406	ng	-0.01
27) Fluoranthene-d10	19.262	212	12337	0.342	ng	0.00
31) Terphenyl-d14	19.861	244	8607	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	3022	0.376	ng	95
3) n-Nitrosodimethylamine	3.601	42	3835	0.365	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	8278	0.403	ng	99
9) Naphthalene	10.680	128	20623	0.390	ng	100
10) Hexachlorobutadiene	10.989	225	3796	0.396	ng	# 99
12) 2-Methylnaphthalene	12.304	142	12533	0.383	ng	99
16) Acenaphthylene	14.206	152	14987	0.379	ng	100
17) Acenaphthene	14.548	154	10387	0.389	ng	97
18) Fluorene	15.535	166	11958	0.369	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	430	0.323	ng	# 74
21) 4-Bromophenyl-phenylether	16.429	248	3726	0.397	ng	# 96
22) Hexachlorobenzene	16.540	284	4695	0.435	ng	98
23) Atrazine	16.689	200	2195	0.368	ng	# 95
24) Pentachlorophenol	16.888	266	1416	0.452	ng	96
25) Phenanthrene	17.273	178	17514	0.387	ng	99
26) Anthracene	17.360	178	14982	0.374	ng	100
28) Fluoranthene	19.290	202	17532	0.353	ng	100
30) Pyrene	19.652	202	17441	0.399	ng	100
32) Benzo(a)anthracene	21.393	228	14838	0.381	ng	100
33) Chrysene	21.447	228	16770	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4946	0.428	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	22723	0.457	ng	99
37) Benzo(b)fluoranthene	23.037	252	17698	0.380	ng	98
38) Benzo(k)fluoranthene	23.081	252	18956	0.399	ng	97
39) Benzo(a)pyrene	23.636	252	14490	0.388	ng	97
40) Dibenzo(a,h)anthracene	26.139	278	17796	0.448	ng	98
41) Benzo(g,h,i)perylene	26.849	276	18357	0.412	ng	97

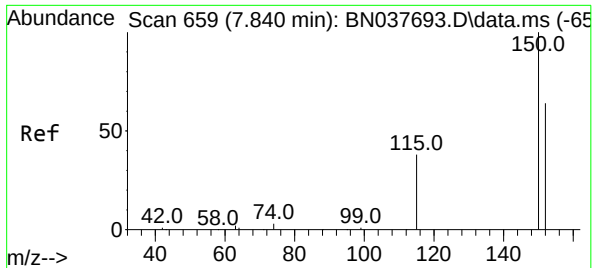
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

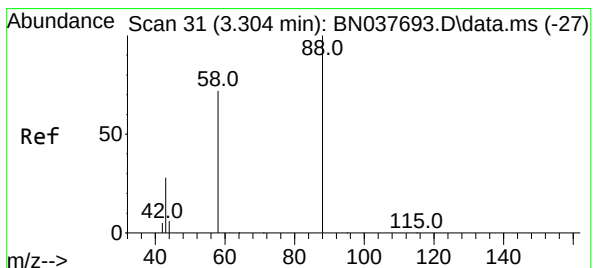
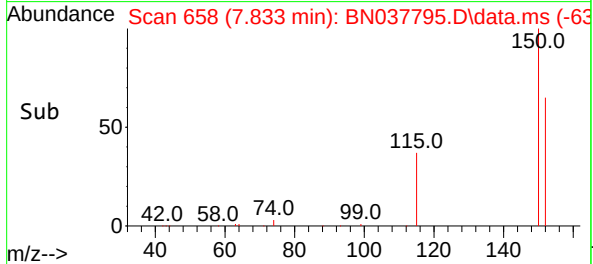
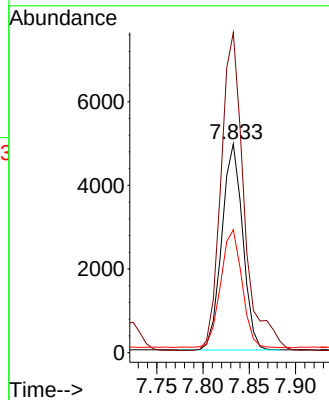
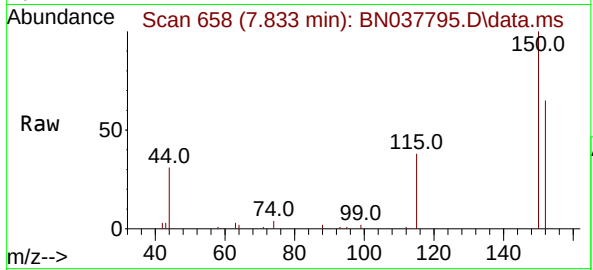




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

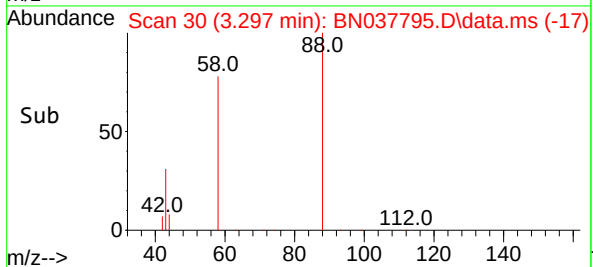
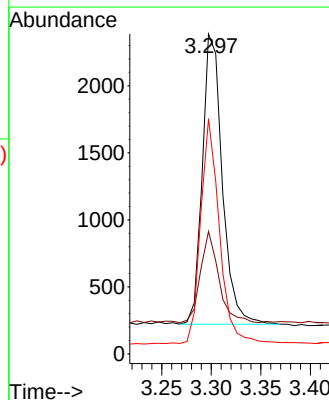
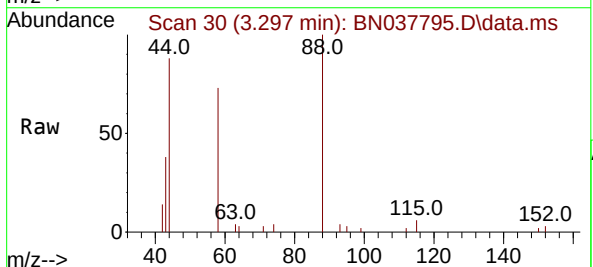
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7724
Ion Ratio Lower Upper
152 100
150 153.2 124.5 186.7
115 58.8 49.2 73.8

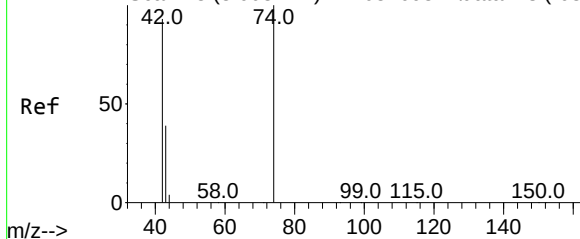


#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

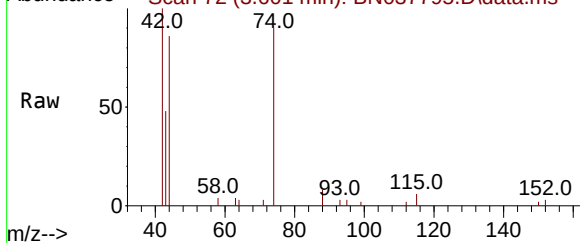
Tgt Ion: 88 Resp: 3022
Ion Ratio Lower Upper
88 100
43 29.0 26.8 40.2
58 73.9 61.9 92.9



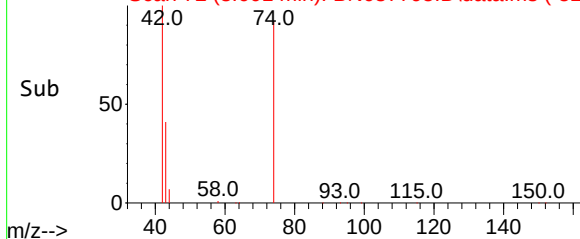
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 72 (3.601 min): BN037795.D\data.ms



Abundance Scan 72 (3.601 min): BN037795.D\data.ms (-52)



#3

n-Nitrosodimethylamine

Concen: 0.365 ng

RT: 3.601 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 3835

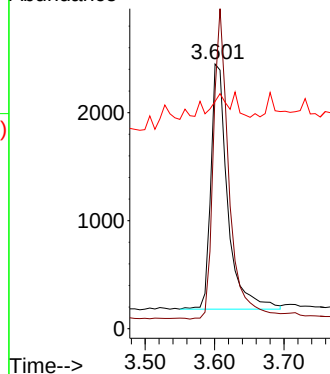
Ion Ratio Lower Upper

42 100

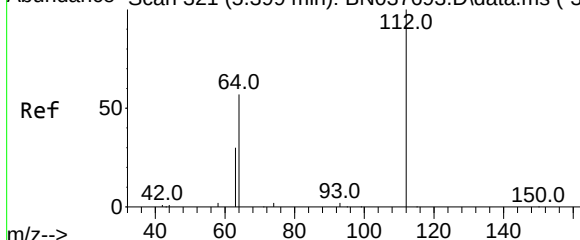
74 117.9 86.0 129.0

44 5.8 8.4 12.6#

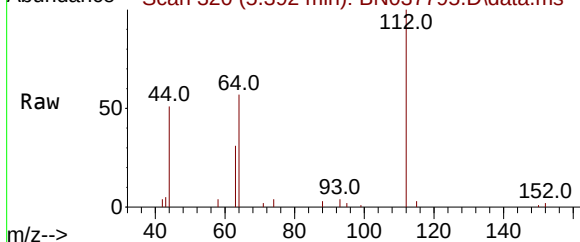
Abundance



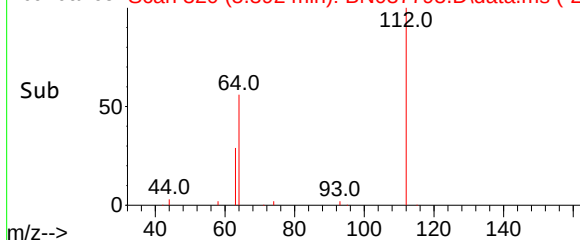
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037795.D\data.ms



Abundance Scan 320 (5.392 min): BN037795.D\data.ms (-29)



#4

2-Fluorophenol

Concen: 0.362 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Tgt Ion: 112 Resp: 6414

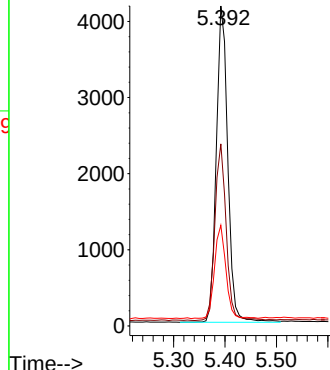
Ion Ratio Lower Upper

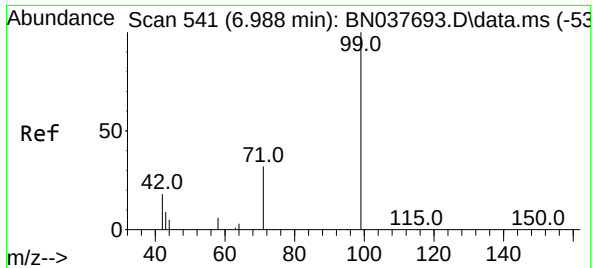
112 100

64 55.5 44.9 67.3

63 28.9 24.7 37.1

Abundance

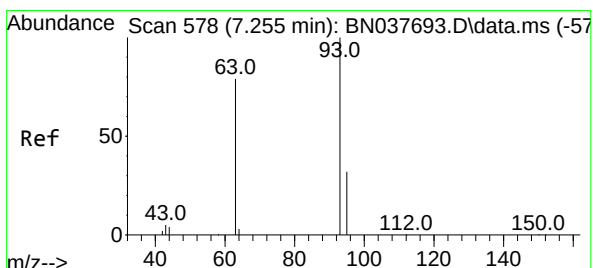
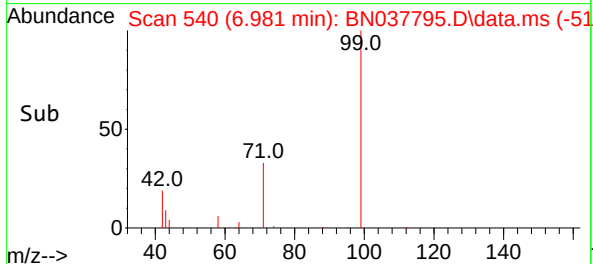
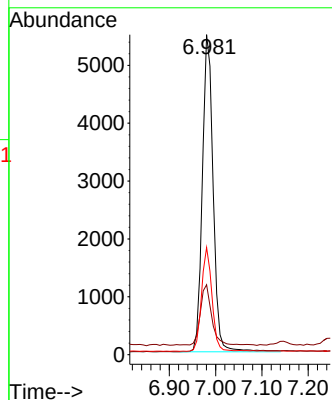
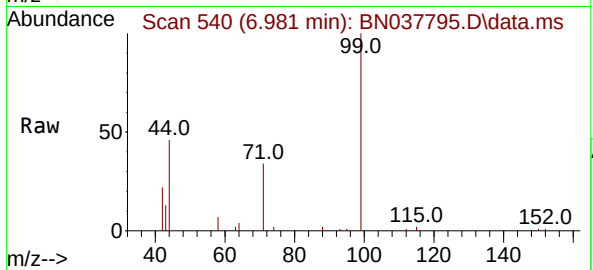




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

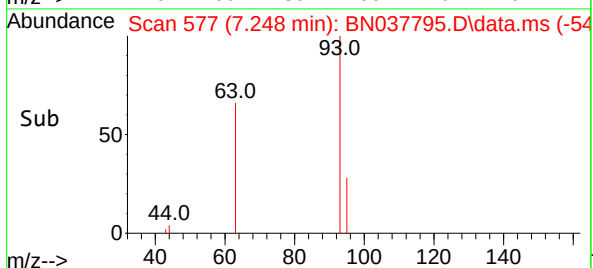
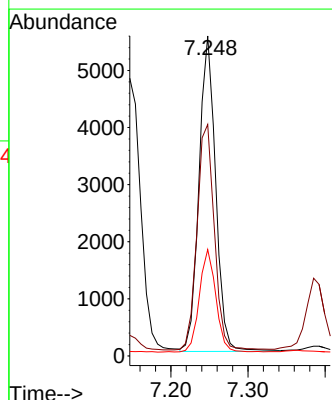
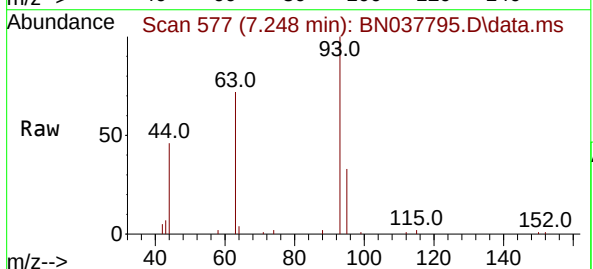
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

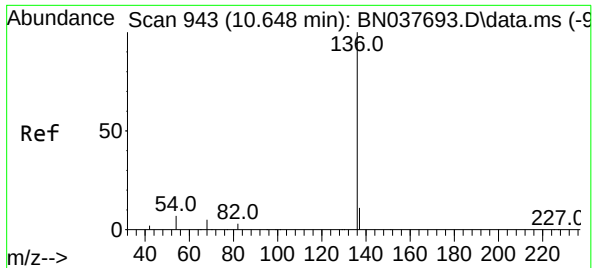
Tgt Ion: 99 Resp: 8898
Ion Ratio Lower Upper
99 100
42 20.3 16.6 24.8
71 31.9 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 93 Resp: 8278
Ion Ratio Lower Upper
93 100
63 74.3 60.6 90.8
95 32.5 26.0 39.0

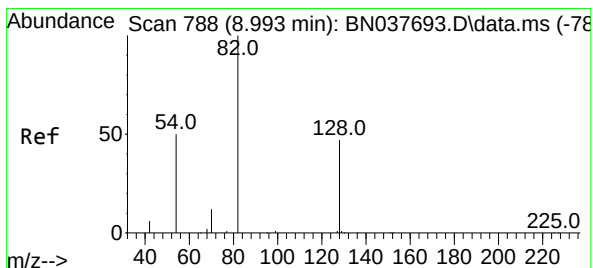
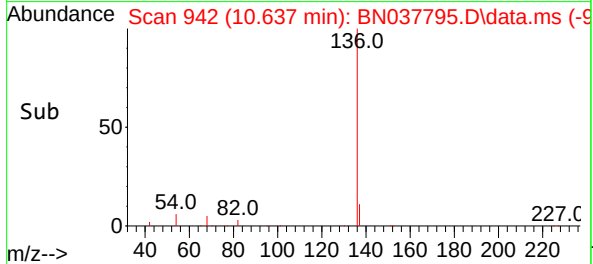
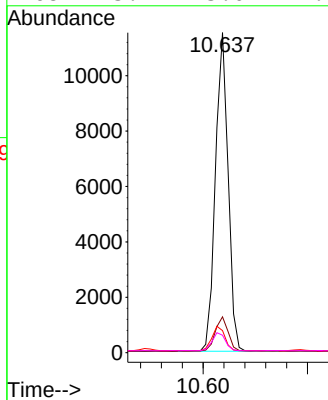
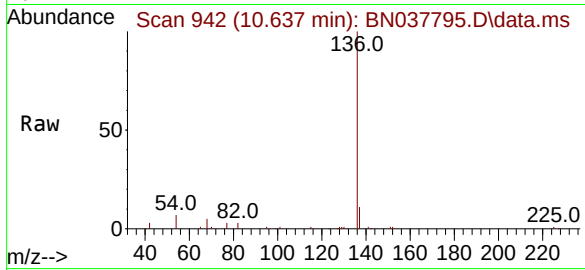




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

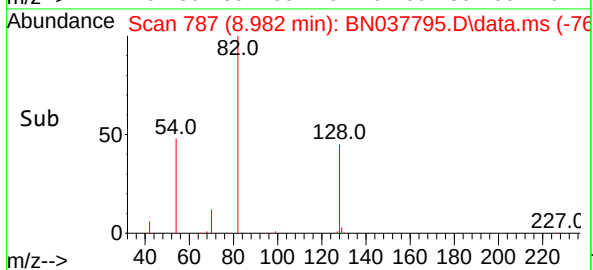
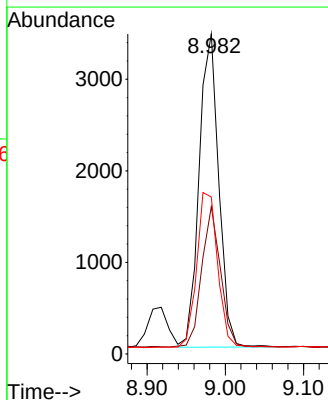
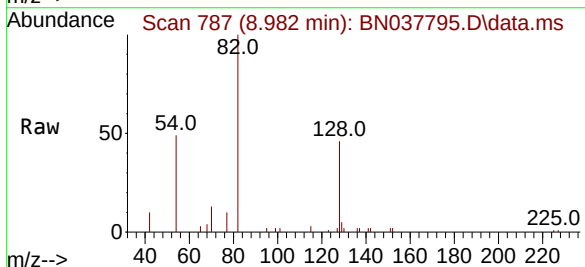
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

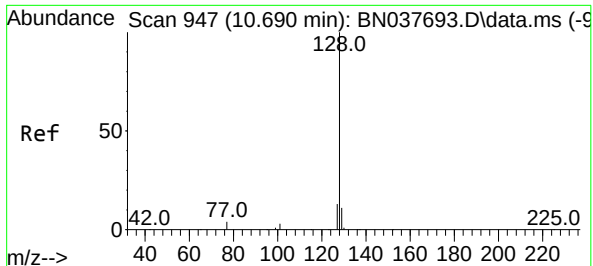
Tgt Ion:136	Resp:	19361
Ion Ratio	Lower	Upper
136	100	
137	11.2	9.1 13.7
54	6.9	6.3 9.5
68	5.4	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion: 82	Resp:	5961
Ion Ratio	Lower	Upper
82	100	
128	46.0	38.3 57.5
54	49.1	41.4 62.2

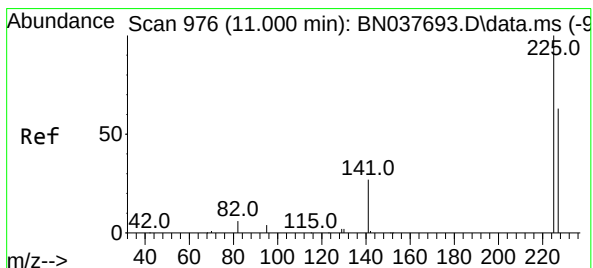
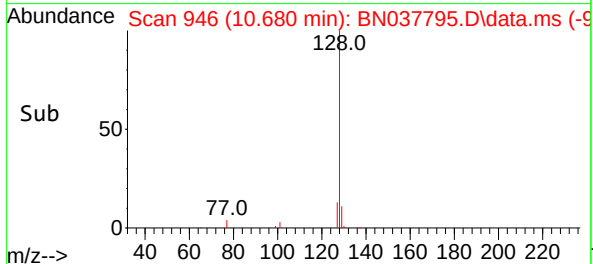
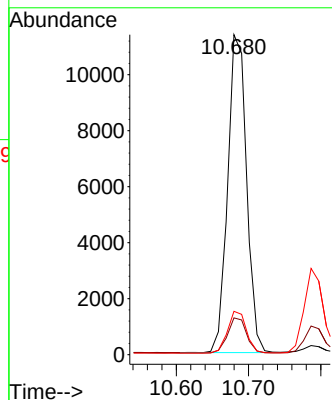
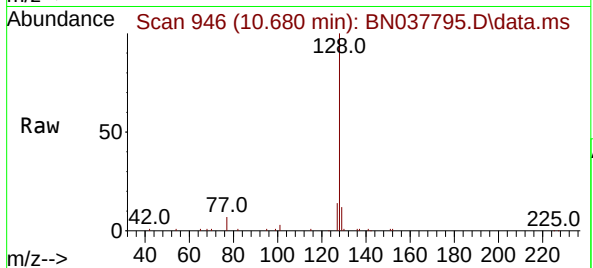




#9
Naphthalene
Concen: 0.390 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

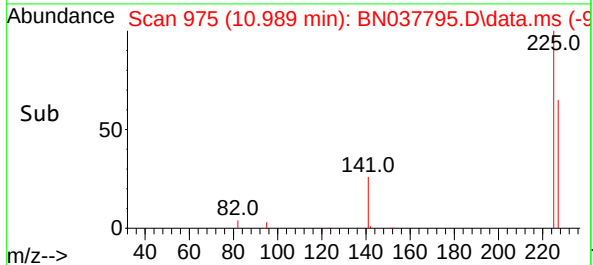
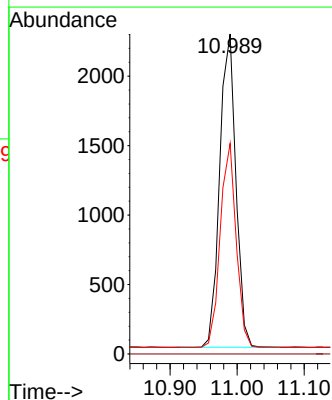
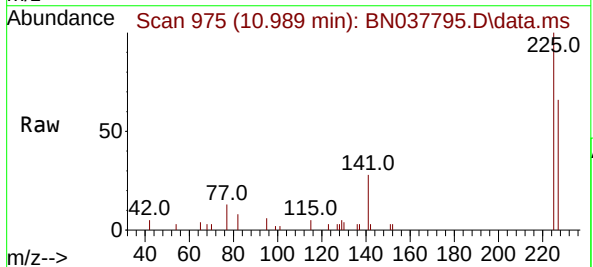
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

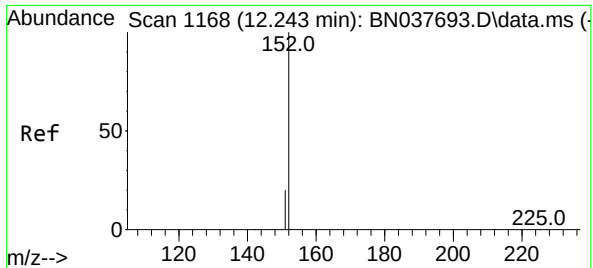
Tgt Ion:128 Resp: 20623
Ion Ratio Lower Upper
128 100
129 11.5 9.1 13.7
127 13.6 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:225 Resp: 3796
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

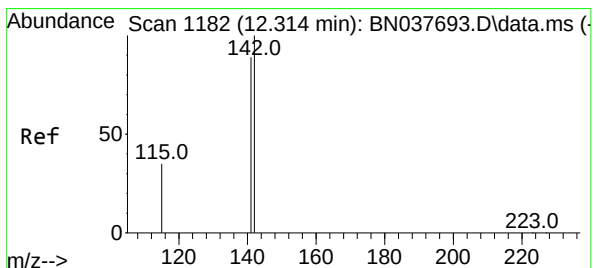
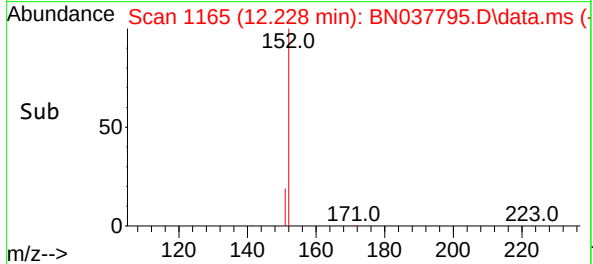
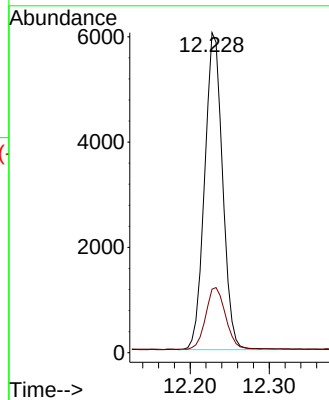
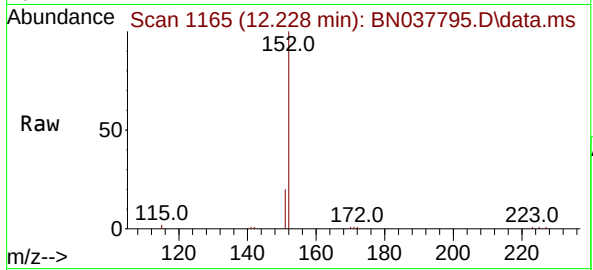




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

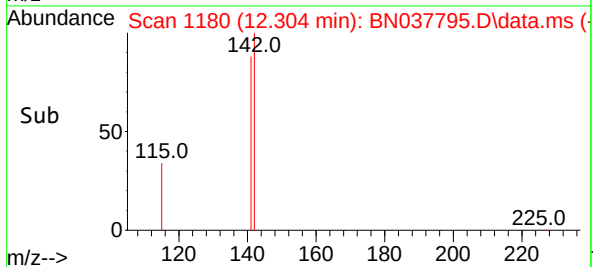
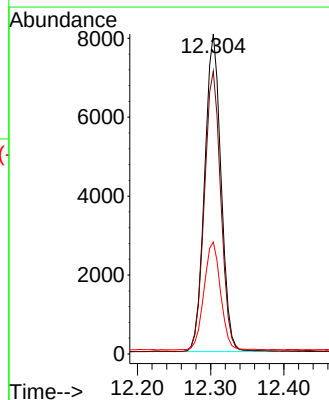
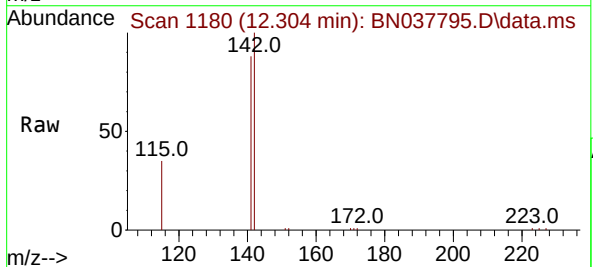
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

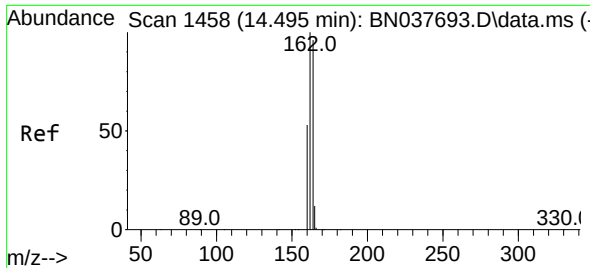
Tgt Ion:152 Resp: 9493
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:142 Resp: 12533
Ion Ratio Lower Upper
142 100
141 88.4 71.6 107.4
115 35.0 28.6 43.0

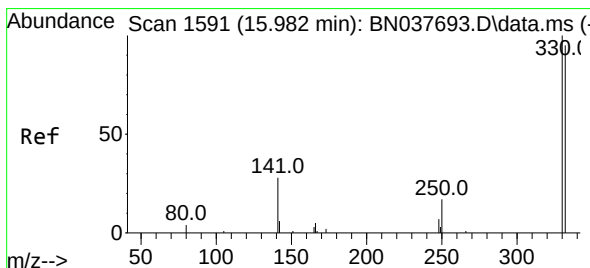
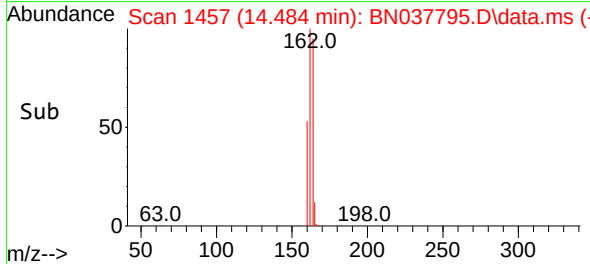
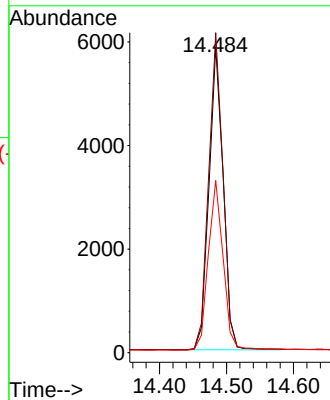
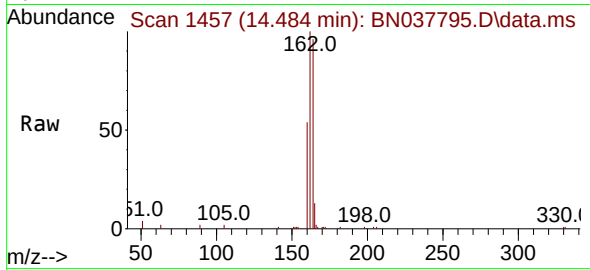




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

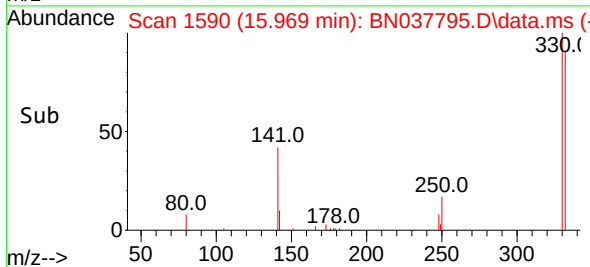
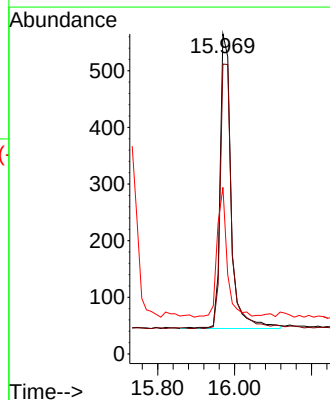
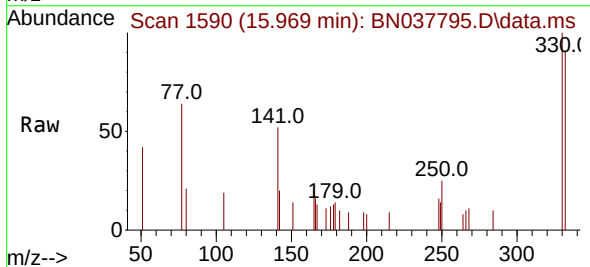
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

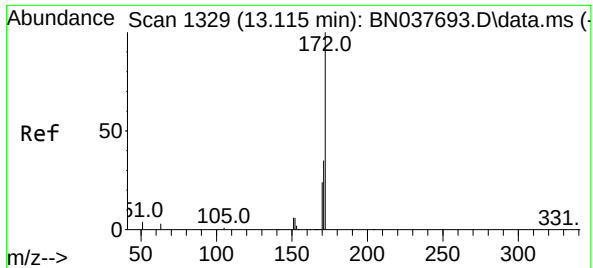
Tgt Ion:164 Resp: 8621
Ion Ratio Lower Upper
164 100
162 104.7 83.1 124.7
160 56.3 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.460 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:330 Resp: 1034
Ion Ratio Lower Upper
330 100
332 92.1 75.3 112.9
141 40.2 35.0 52.4

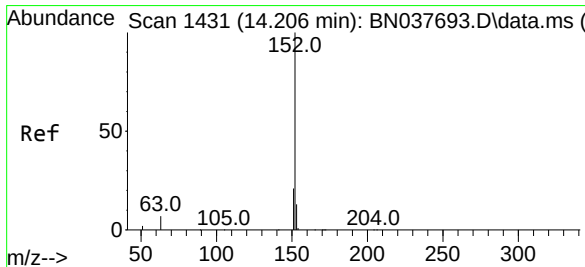
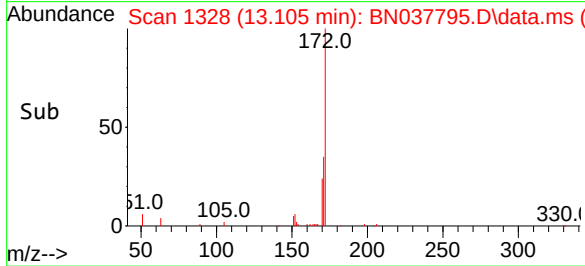
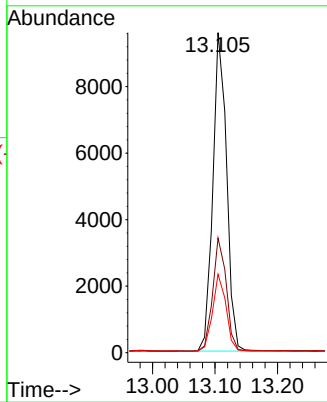
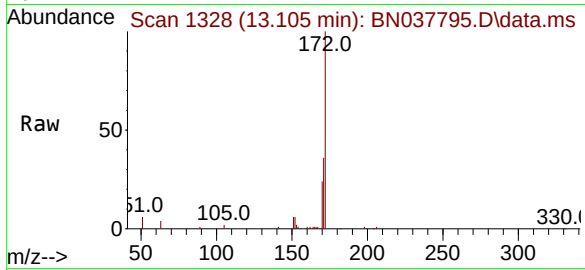




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

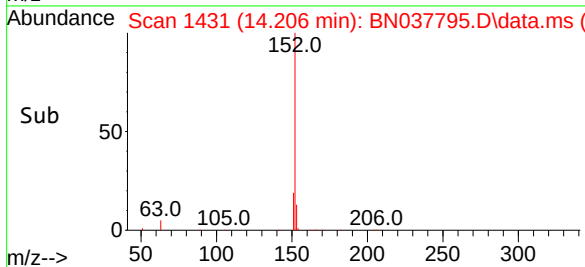
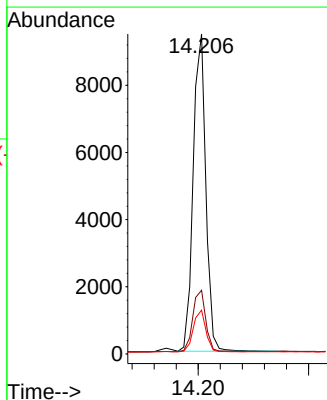
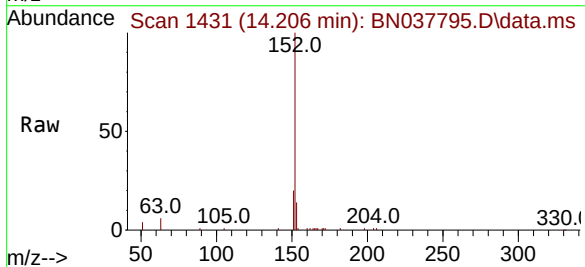
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

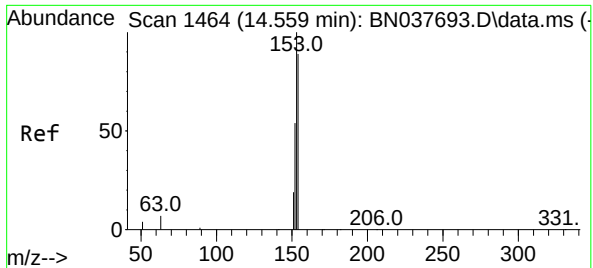
Tgt Ion:	172	Resp:	14625
Ion Ratio	Lower	Upper	
172	100		
171	35.9	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:	152	Resp:	14987
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6

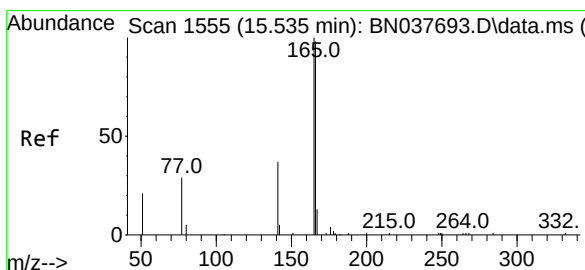
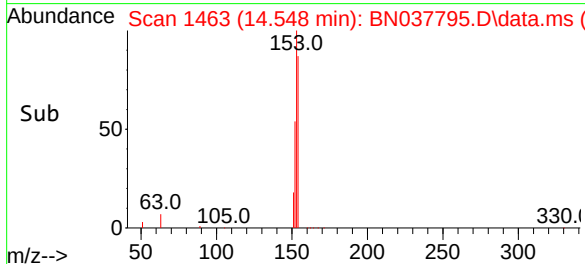
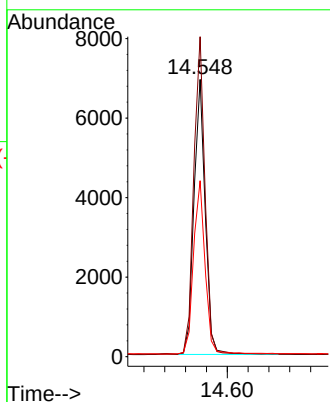
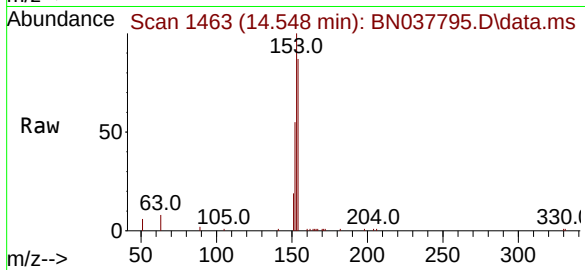




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

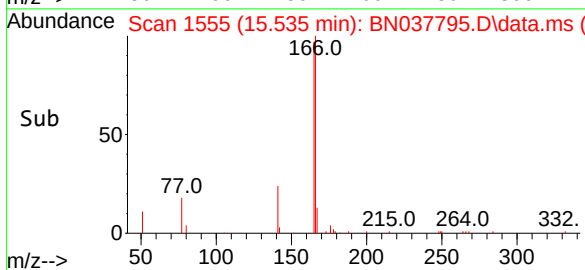
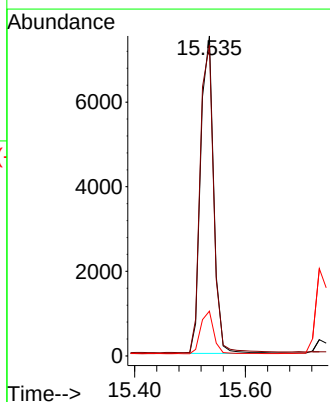
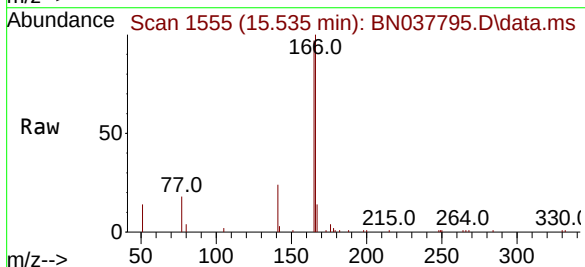
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

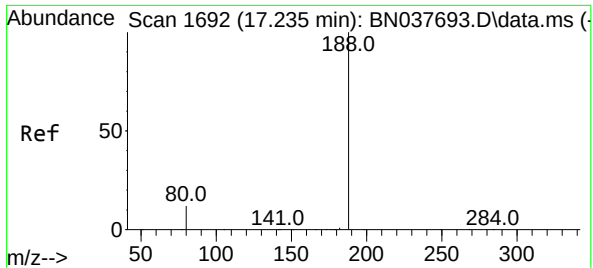
Tgt Ion:154 Resp: 10387
Ion Ratio Lower Upper
154 100
153 115.4 89.8 134.8
152 65.2 50.2 75.2



#18
Fluorene
Concen: 0.369 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:166 Resp: 11958
Ion Ratio Lower Upper
166 100
165 100.3 79.6 119.4
167 13.3 10.6 16.0

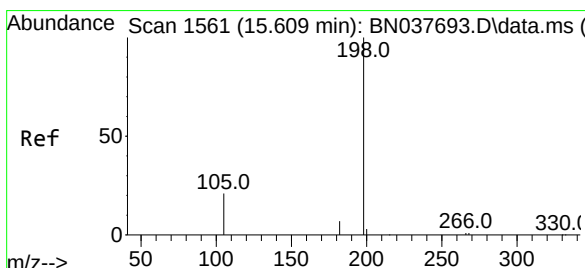
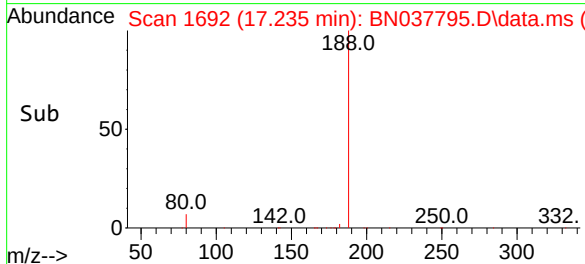
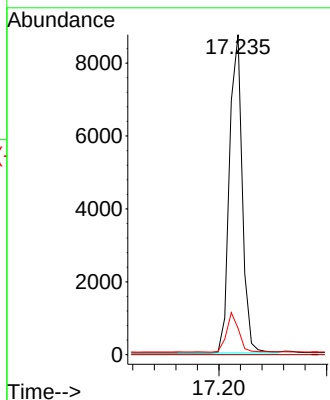
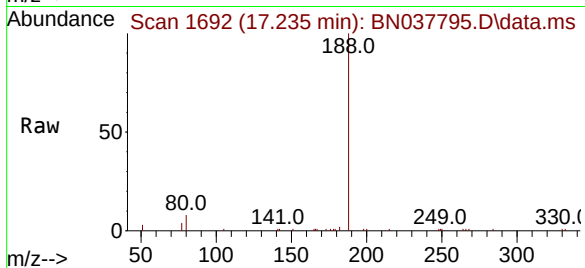




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

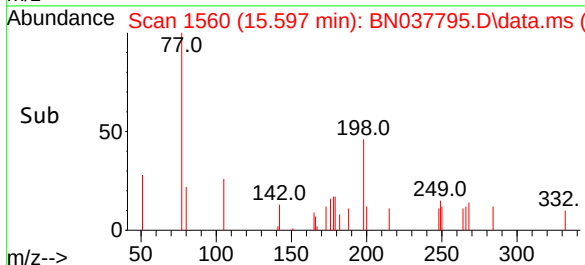
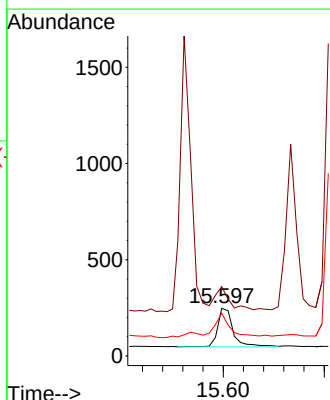
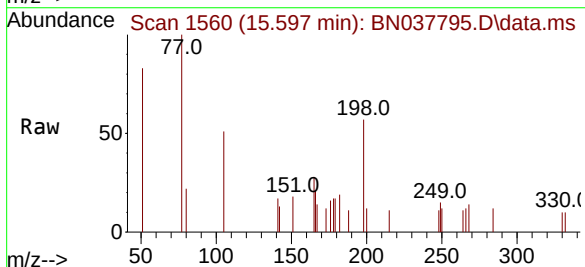
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

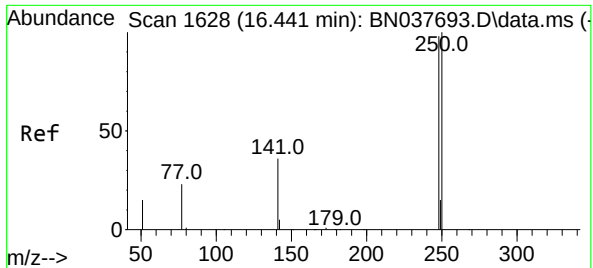
Tgt Ion:	188	Resp:	14380
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.3	10.6	15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.323 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:	198	Resp:	430
Ion Ratio	Lower	Upper	
198	100		
51	145.7	95.1	142.7#
105	89.9	53.8	80.6#

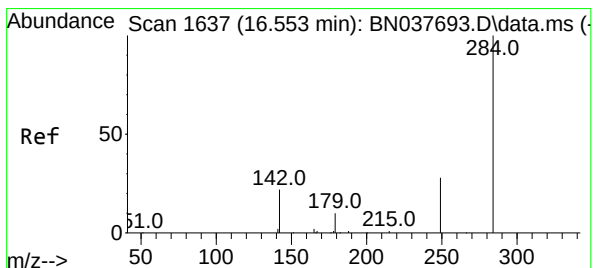
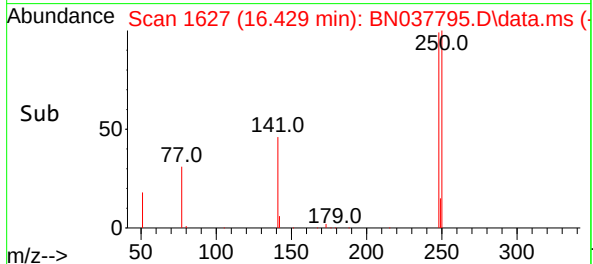
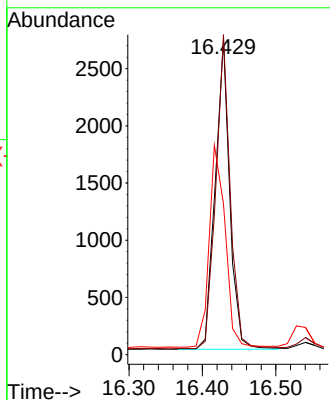
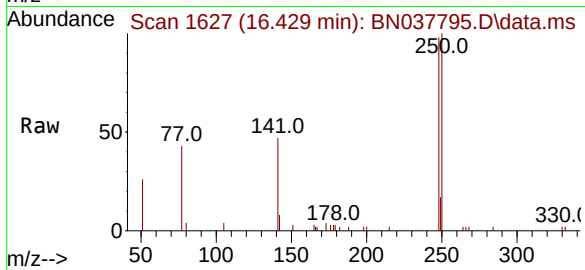




#21
4-Bromophenyl-phenylether
Concen: 0.397 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

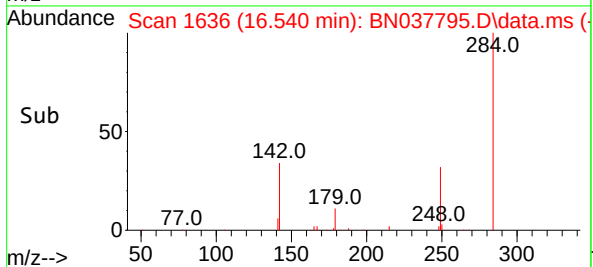
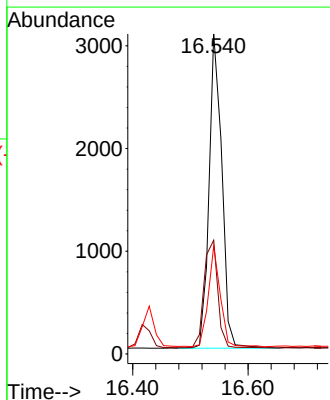
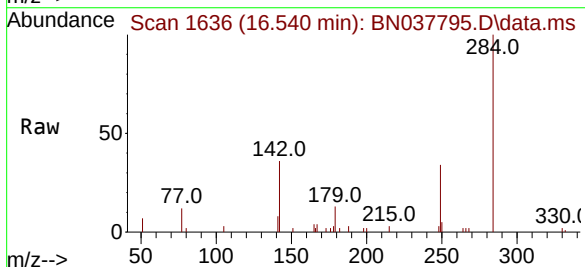
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

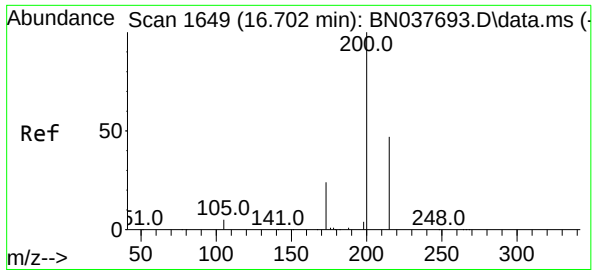
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	47.8	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.435 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.9	46.3
249	30.1	24.8	37.2

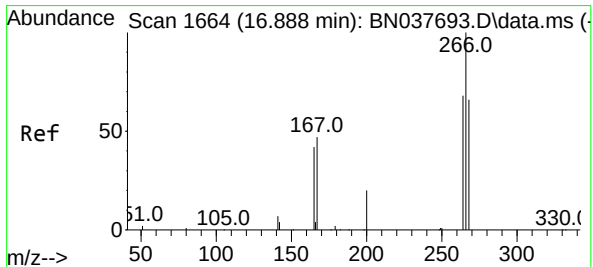
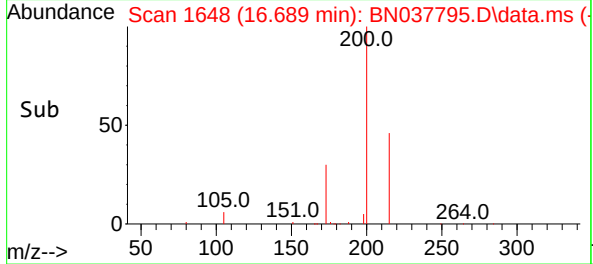
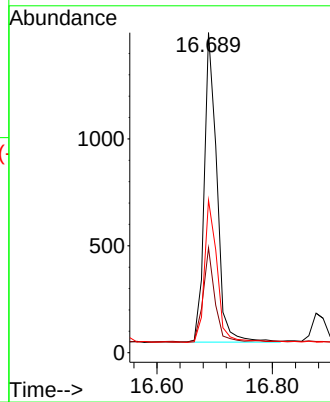
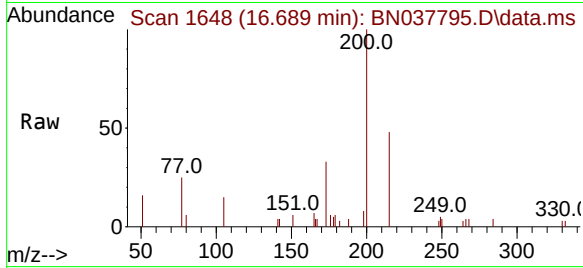




#23
Atrazine
Concen: 0.368 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

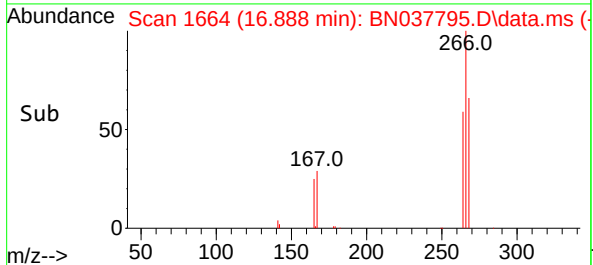
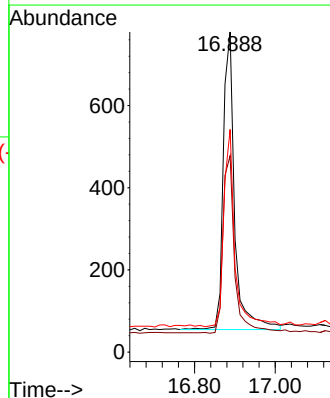
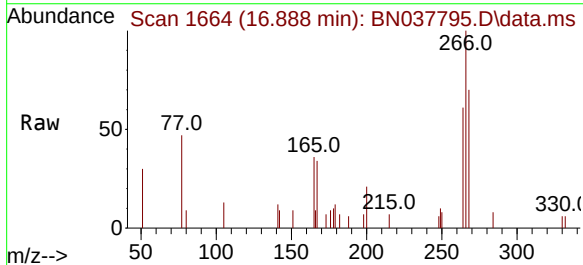
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

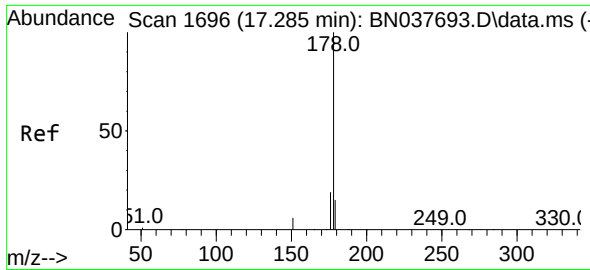
Tgt Ion:200 Resp: 2195
Ion Ratio Lower Upper
200 100
173 32.7 21.4 32.2#
215 47.6 39.2 58.8



#24
Pentachlorophenol
Concen: 0.452 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:266 Resp: 1416
Ion Ratio Lower Upper
266 100
264 61.1 51.6 77.4
268 64.3 53.2 79.8

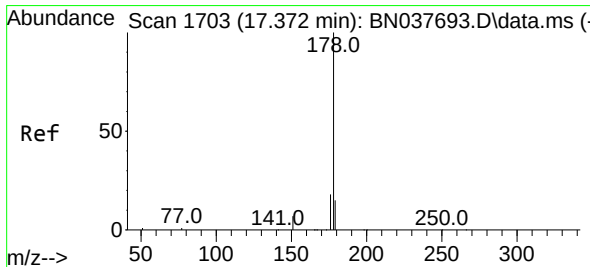
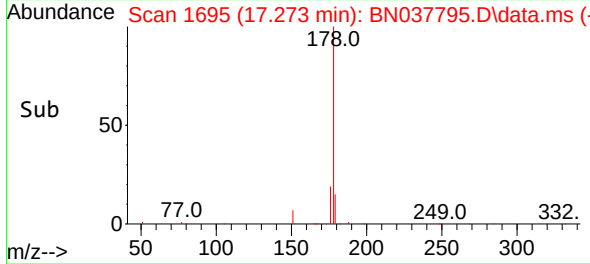
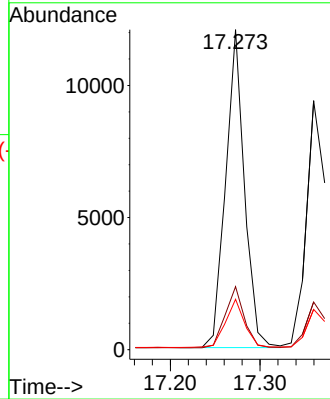
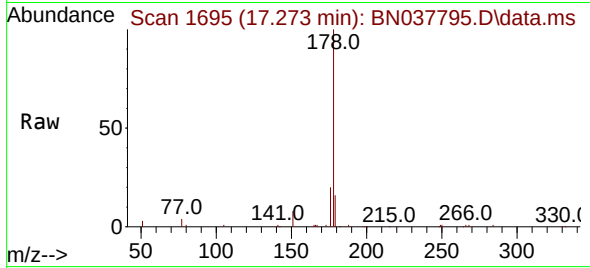




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

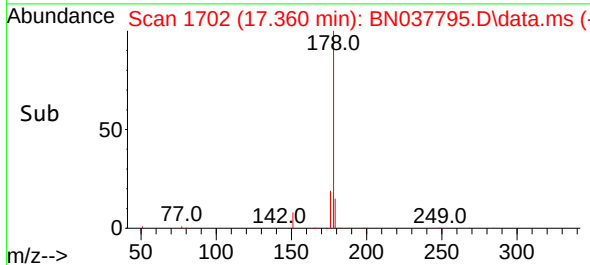
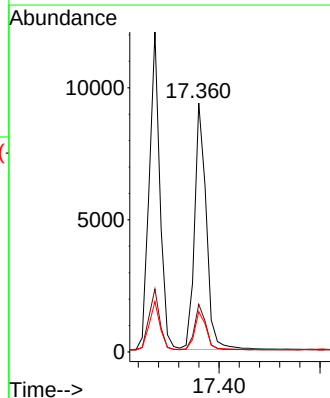
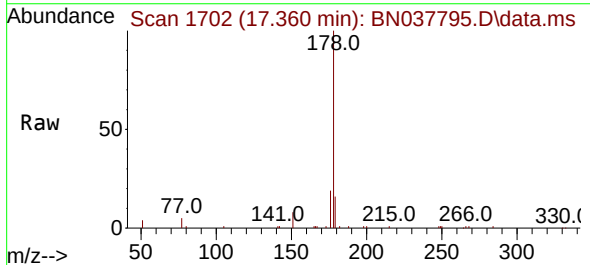
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

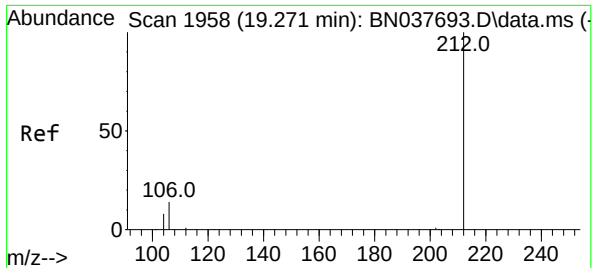
Tgt Ion:178	Resp:	17514
Ion Ratio	Lower	Upper
178	100	
176	19.3	15.3 22.9
179	15.6	12.2 18.2



#26
Anthracene
Concen: 0.374 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:178	Resp:	14982
Ion Ratio	Lower	Upper
178	100	
176	18.5	14.6 22.0
179	15.3	12.2 18.4





#27

Fluoranthene-d10

Concen: 0.342 ng

RT: 19.262 min Scan# 1956

Delta R.T. -0.009 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

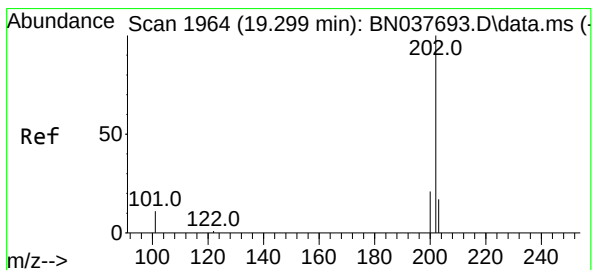
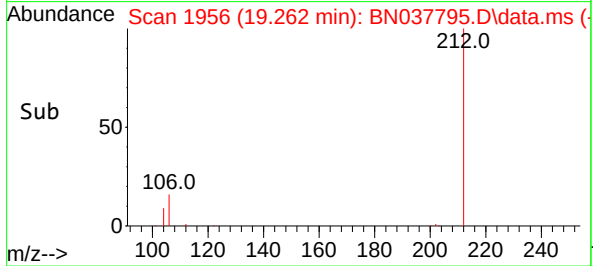
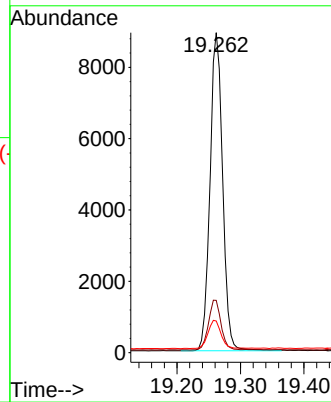
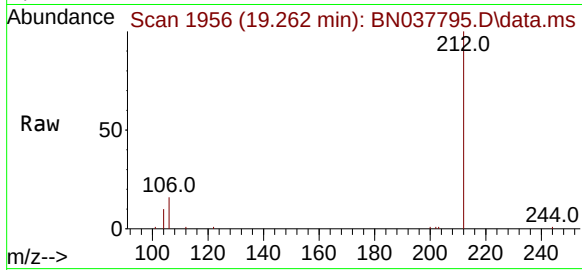
Tgt Ion:212 Resp: 12337

Ion Ratio Lower Upper

212 100

106 15.5 12.2 18.2

104 9.0 6.9 10.3



#28

Fluoranthene

Concen: 0.353 ng

RT: 19.290 min Scan# 1962

Delta R.T. -0.009 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

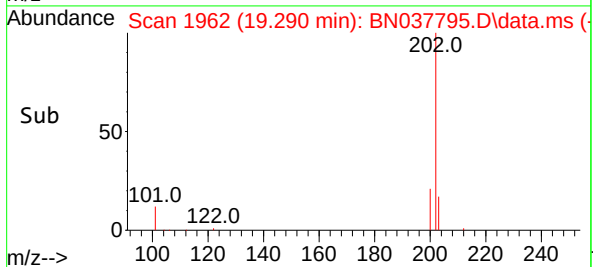
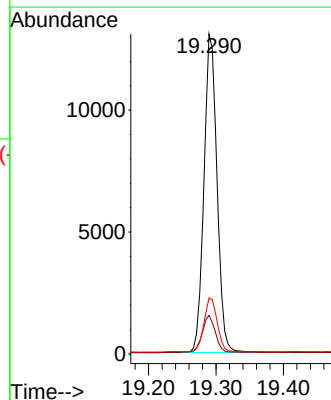
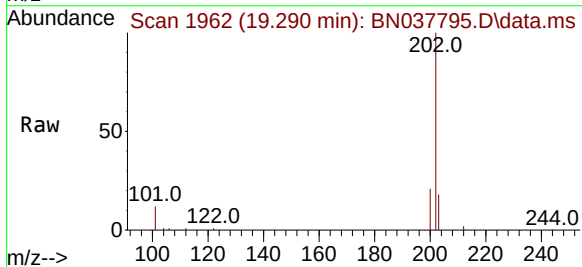
Tgt Ion:202 Resp: 17532

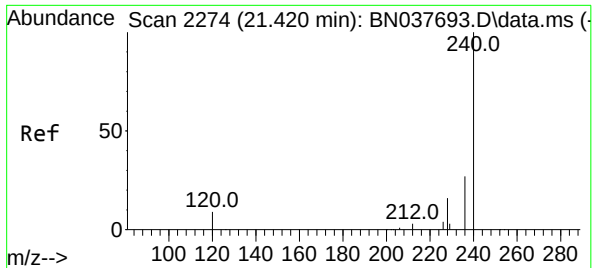
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.1 13.7 20.5

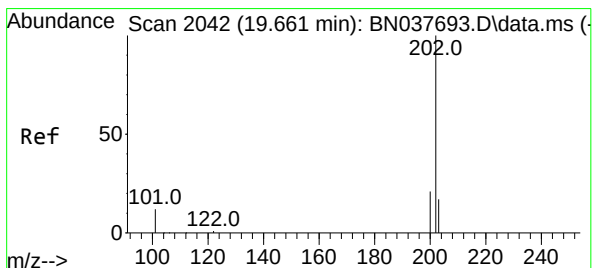
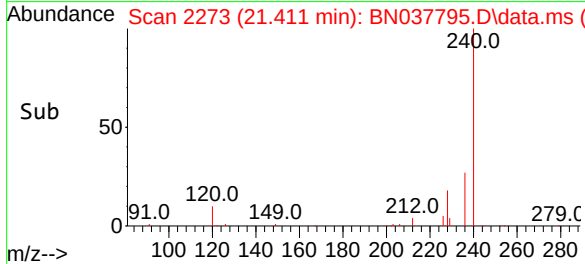
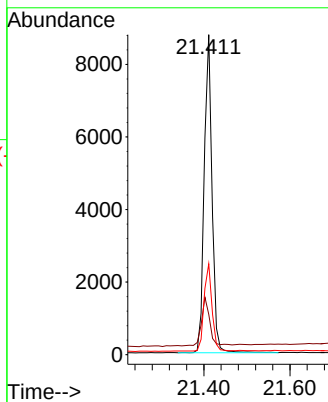
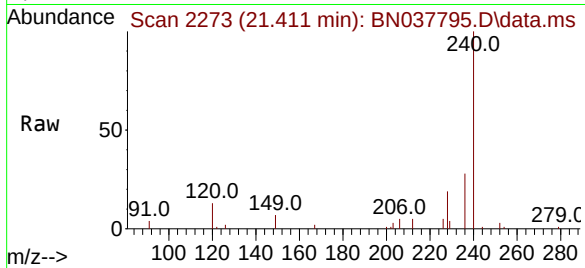




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21169
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

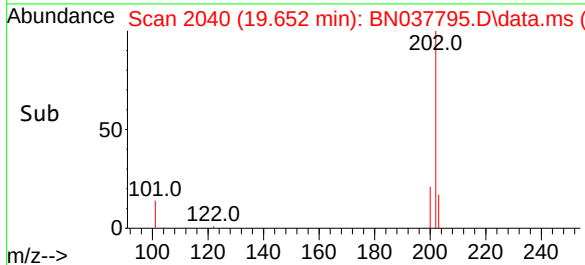
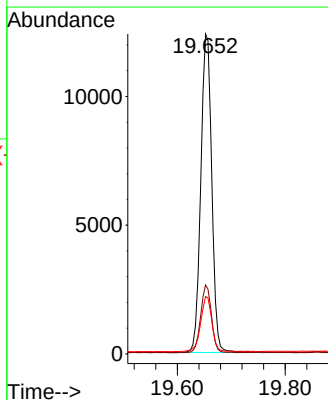
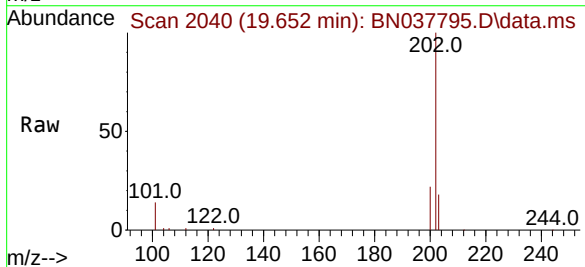
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

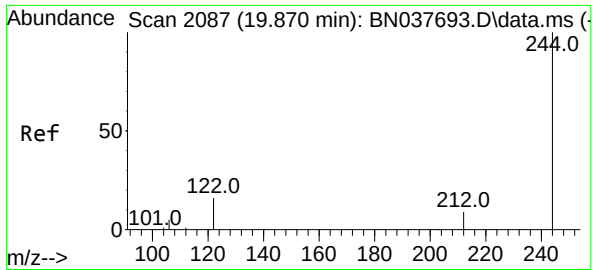
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.2	13.8
236	28.4	22.6	33.8



#30
Pyrene
Concen: 0.399 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.3	21.5

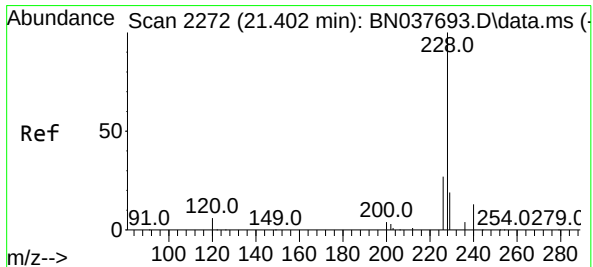
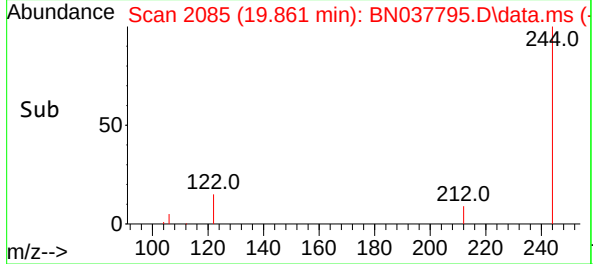
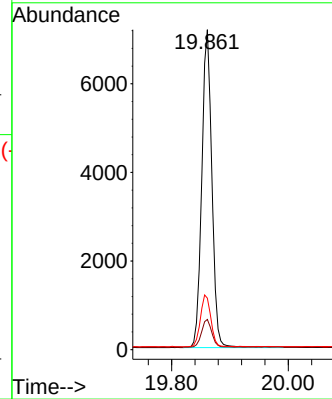
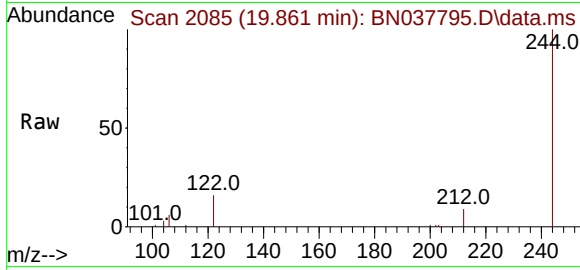




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

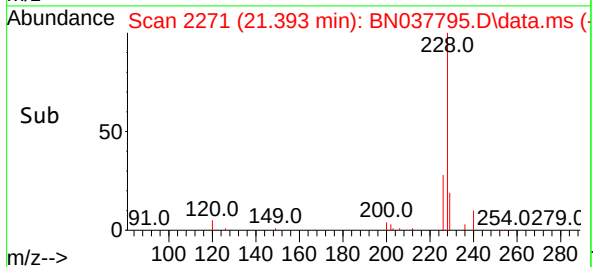
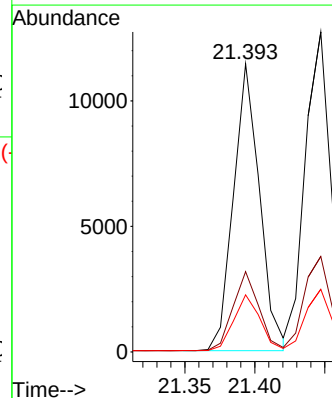
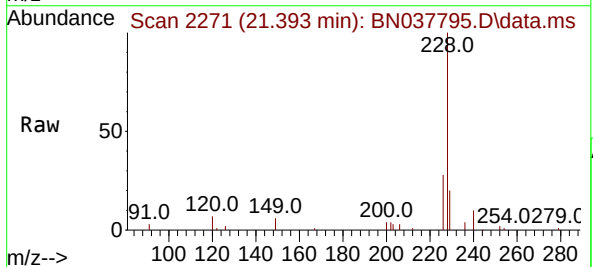
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

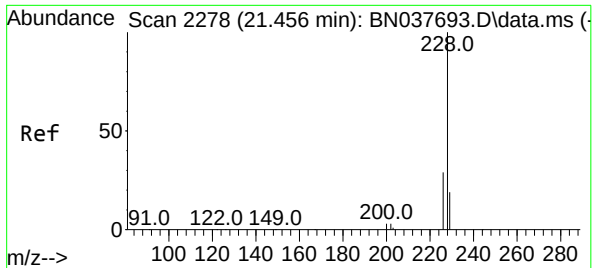
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.5	11.3
122	16.1	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.8	15.8	23.6

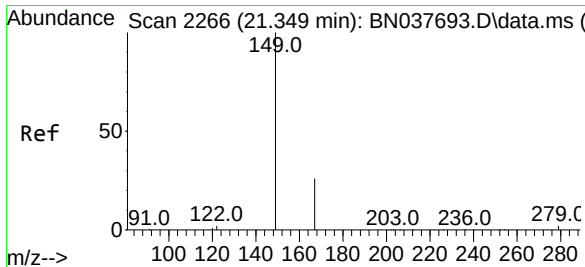
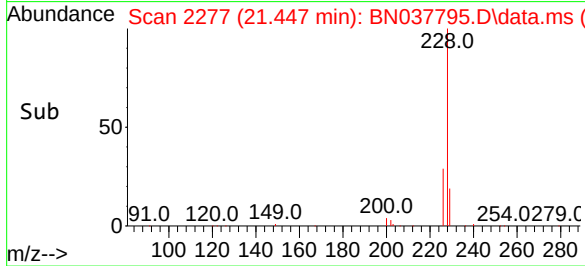
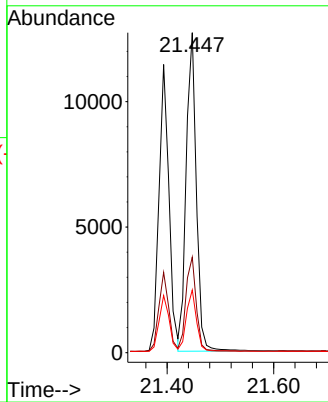
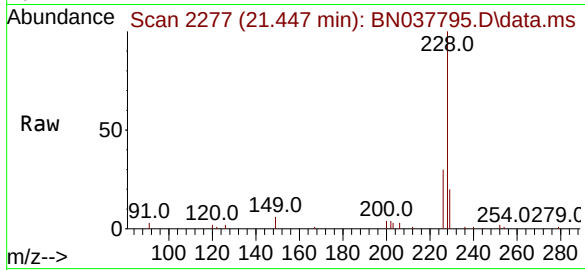




#33
Chrysene
Concen: 0.401 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

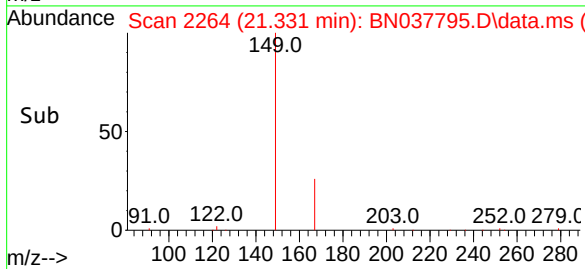
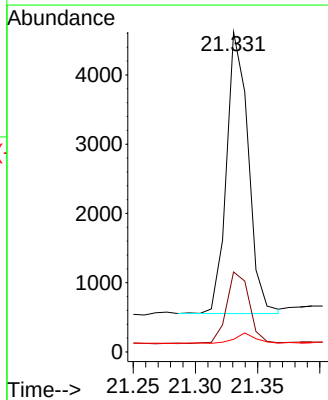
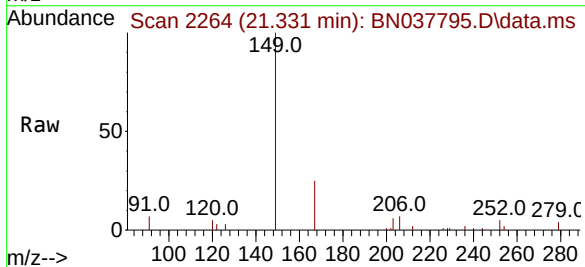
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

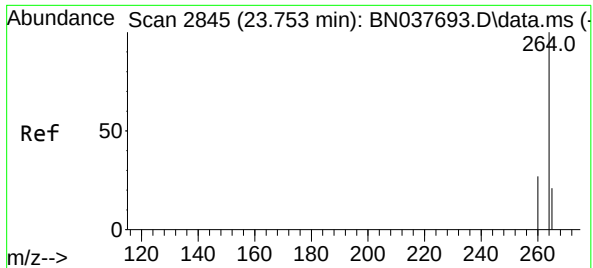
Tgt Ion:	228	Resp:	16770
Ion Ratio	Lower	Upper	
228	100		
226	29.8	23.5	35.3
229	19.6	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.428 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:	149	Resp:	4946
Ion Ratio	Lower	Upper	
149	100		
167	26.7	20.8	31.2
279	4.1	3.3	4.9

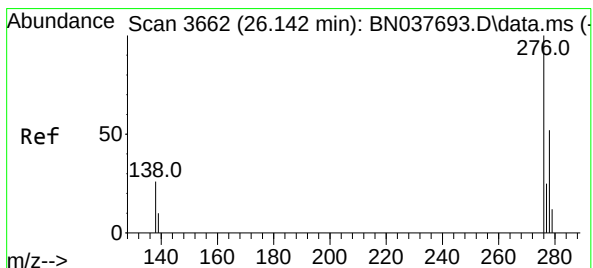
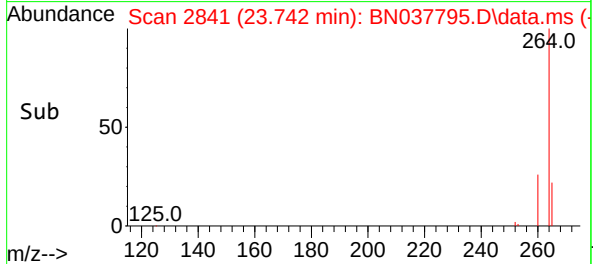
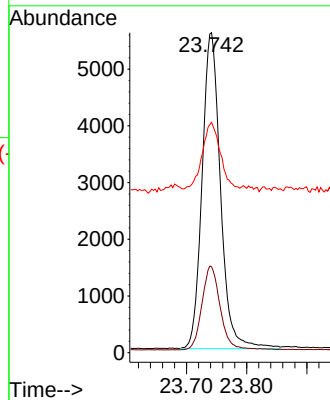
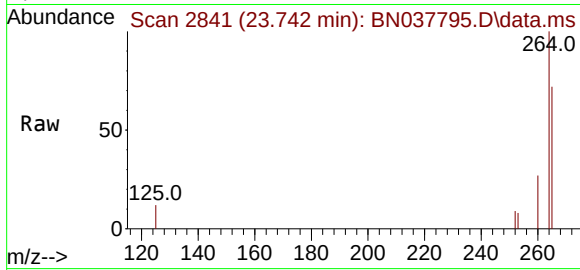




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.742 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

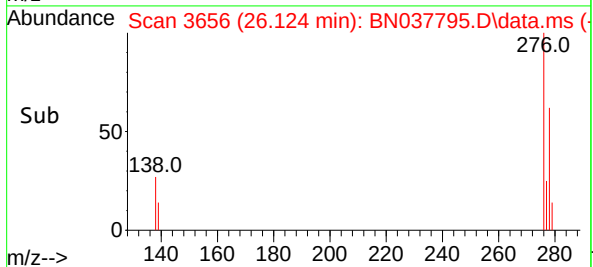
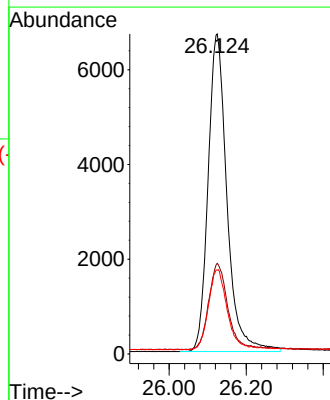
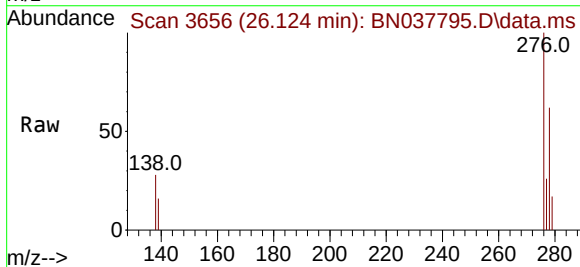
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

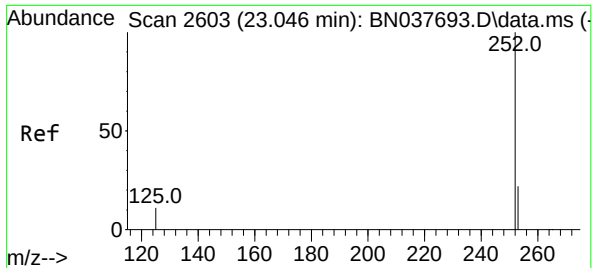
Tgt Ion:264 Resp: 11840
Ion Ratio Lower Upper
264 100
260 26.8 21.8 32.8
265 72.0 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.457 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:276 Resp: 22723
Ion Ratio Lower Upper
276 100
138 27.5 21.9 32.9
277 24.7 20.1 30.1

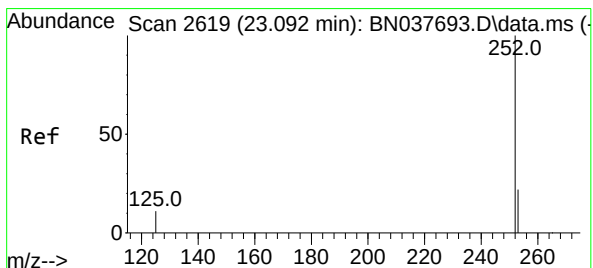
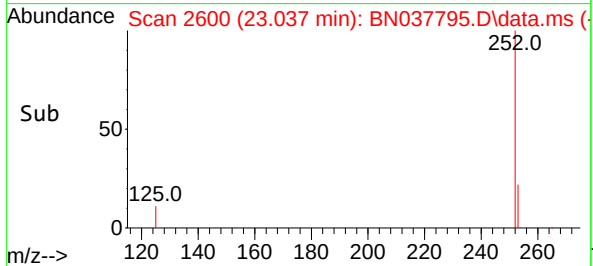
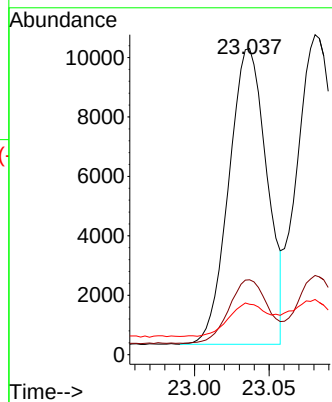
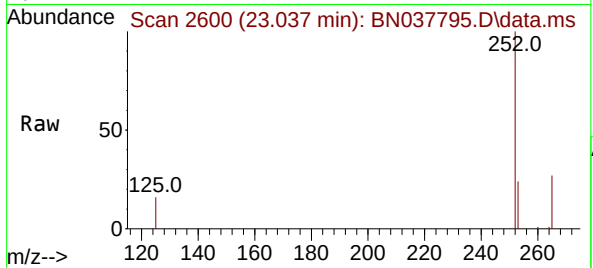




#37
Benzo(b)fluoranthene
Concen: 0.380 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

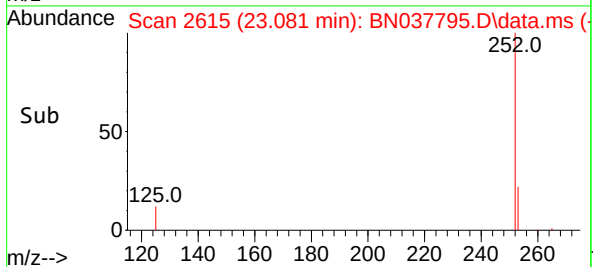
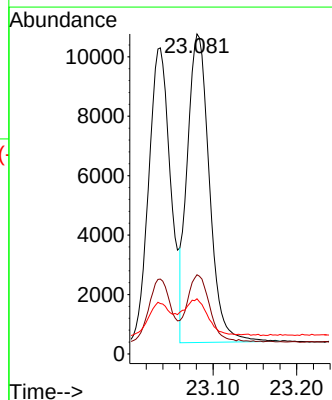
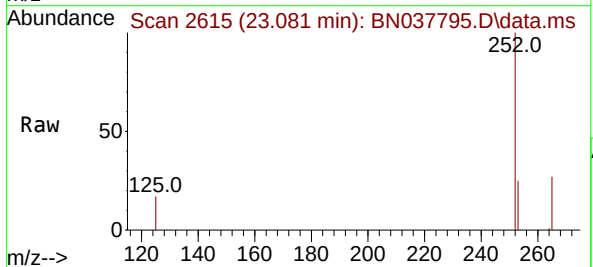
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

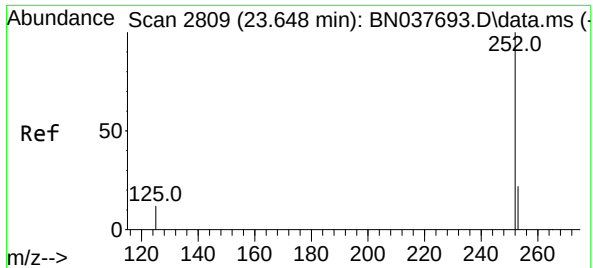
Tgt Ion:252 Resp: 17698
Ion Ratio Lower Upper
252 100
253 24.5 19.4 29.2
125 16.5 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.399 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037795.D
Acq: 19 Sep 2025 02:47

Tgt Ion:252 Resp: 18956
Ion Ratio Lower Upper
252 100
253 24.7 19.4 29.0
125 17.3 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.636 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

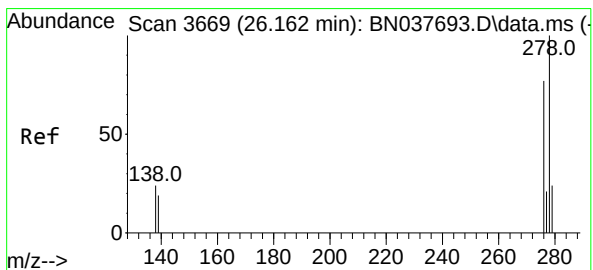
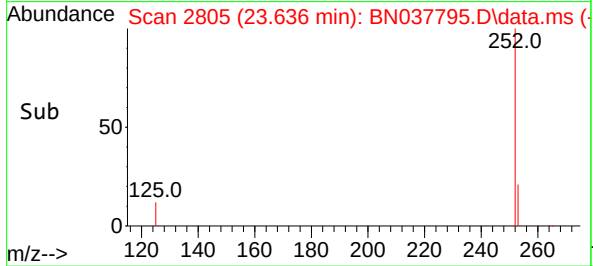
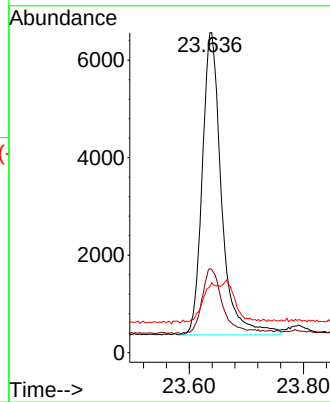
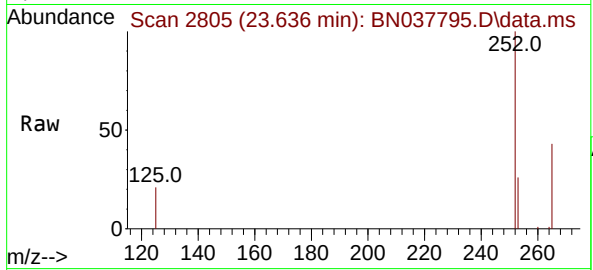
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	14490
Ion Ratio	Lower	Upper	
252	100		
253	26.3	20.8	31.2
125	20.7	13.9	20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.448 ng

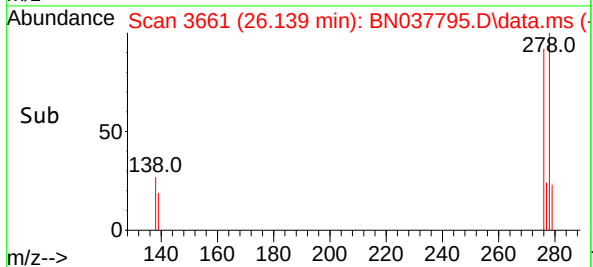
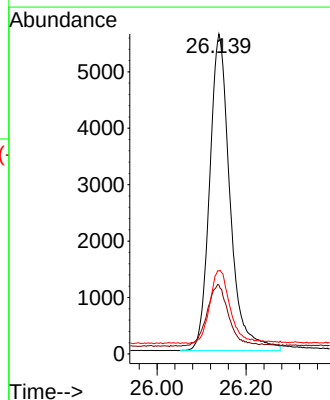
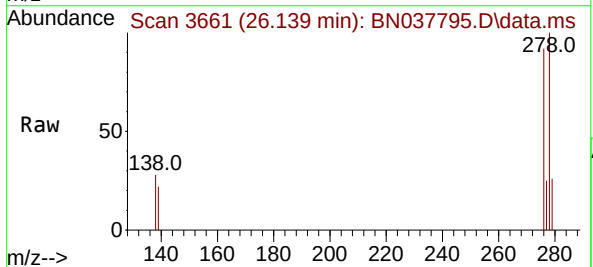
RT: 26.139 min Scan# 3661

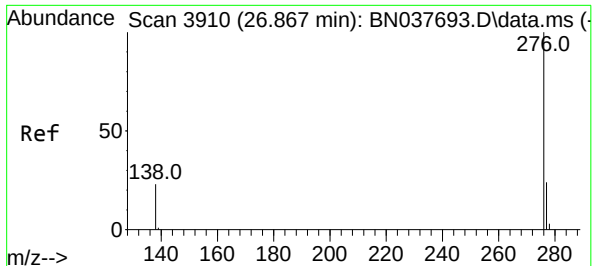
Delta R.T. -0.023 min

Lab File: BN037795.D

Acq: 19 Sep 2025 02:47

Tgt Ion:	278	Resp:	17796
Ion Ratio	Lower	Upper	
278	100		
139	21.5	17.8	26.6
279	26.0	22.0	33.0





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.849 min Scan# 3904

Delta R.T. -0.018 min

Lab File: BN037795.D

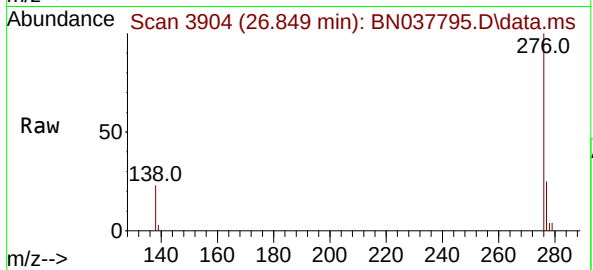
Acq: 19 Sep 2025 02:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



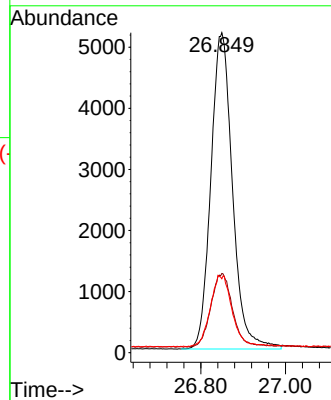
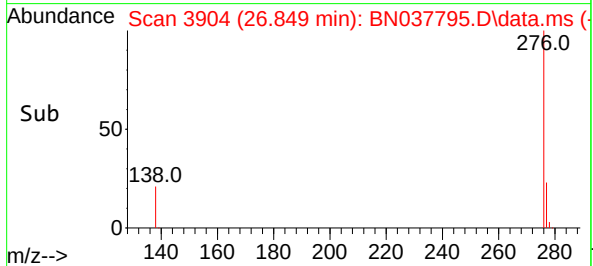
Tgt Ion:276 Resp: 18357

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 23.1 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	155#	0.00
2	1,4-Dioxane	0.417	0.391	6.2	143	0.00
3	n-Nitrosodimethylamine	0.544	0.497	8.6	136	0.00
4 S	2-Fluorophenol	0.918	0.830	9.6	144	0.00
5 S	Phenol-d6	1.191	1.152	3.3	154#	0.00
6	bis(2-Chloroethyl)ether	1.064	1.072	-0.8	155#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	146	-0.01
8 S	Nitrobenzene-d5	0.293	0.308	-5.1	158#	-0.01
9	Naphthalene	1.093	1.065	2.6	145	-0.01
10	Hexachlorobutadiene	0.198	0.196	1.0	145	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.490	7.5	144	-0.02
12	2-Methylnaphthalene	0.676	0.647	4.3	144	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	139	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.120	-15.4	165#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.696	-1.4	143	-0.01
16	Acenaphthylene	1.834	1.738	5.2	135	0.00
17	Acenaphthene	1.240	1.205	2.8	138	-0.01
18	Fluorene	1.502	1.387	7.7	134	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	116	-0.01
21	4-Bromophenyl-phenylether	0.261	0.259	0.8	132	-0.01
22	Hexachlorobenzene	0.300	0.326	-8.7	142	-0.01
23	Atrazine	0.166	0.153	7.8	129	-0.01
24	Pentachlorophenol	0.087	0.098	-12.6	169#	0.00
25	Phenanthrene	1.259	1.218	3.3	127	-0.01
26	Anthracene	1.116	1.042	6.6	124	-0.01
27 SURR	Fluoranthene-d10	1.004	0.858	14.5	117	0.00
28	Fluoranthene	1.381	1.219	11.7	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.566	1.562	0.3	120	0.00
31 S	Terphenyl-d14	0.812	0.771	5.0	115	0.00
32	Benzo(a)anthracene	1.395	1.328	4.8	118	0.00
33	Chrysene	1.496	1.501	-0.3	120	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.443	-7.0	141	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	132	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.919	-14.2	164#	-0.02
37	Benzo(b)fluoranthene	1.575	1.495	5.1	127	0.00
38	Benzo(k)fluoranthene	1.606	1.601	0.3	139	-0.01
39 C	Benzo(a)pyrene	1.261	1.224	2.9	135	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.503	-12.0	164#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.550	-2.9	141	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037795.D
Acq On : 19 Sep 2025 02:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 04:13:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	155	0.00
2	1,4-Dioxane	0.400	0.376	6.0	143	0.00
3	n-Nitrosodimethylamine	0.400	0.365	8.8	136	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	144	0.00
5 S	Phenol-d6	0.400	0.387	3.3	154	0.00
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	155	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	146	-0.01
8 S	Nitrobenzene-d5	0.400	0.421	-5.2	158	-0.01
9	Naphthalene	0.400	0.390	2.5	145	-0.01
10	Hexachlorobutadiene	0.400	0.396	1.0	145	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	144	-0.02
12	2-Methylnaphthalene	0.400	0.383	4.3	144	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	139	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.460	-15.0	165	-0.01
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	143	-0.01
16	Acenaphthylene	0.400	0.379	5.3	135	0.00
17	Acenaphthene	0.400	0.389	2.8	138	-0.01
18	Fluorene	0.400	0.369	7.8	134	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	116	-0.01
21	4-Bromophenyl-phenylether	0.400	0.397	0.8	132	-0.01
22	Hexachlorobenzene	0.400	0.435	-8.7	142	-0.01
23	Atrazine	0.400	0.368	8.0	129	-0.01
24	Pentachlorophenol	0.400	0.452	-13.0	169	0.00
25	Phenanthrene	0.400	0.387	3.3	127	-0.01
26	Anthracene	0.400	0.374	6.5	124	-0.01
27 SURR	Fluoranthene-d10	0.400	0.342	14.5	117	0.00
28	Fluoranthene	0.400	0.353	11.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.399	0.3	120	0.00
31 S	Terphenyl-d14	0.400	0.380	5.0	115	0.00
32	Benzo(a)anthracene	0.400	0.381	4.8	118	0.00
33	Chrysene	0.400	0.401	-0.3	120	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.428	-7.0	141	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	132	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.457	-14.2	164	-0.02
37	Benzo(b)fluoranthene	0.400	0.380	5.0	127	0.00
38	Benzo(k)fluoranthene	0.400	0.399	0.3	139	-0.01
39 C	Benzo(a)pyrene	0.400	0.388	3.0	135	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.448	-12.0	164	-0.02
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	141	-0.02

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 13:03
 Lab File ID: BN037811.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.497		-6.2	50.0
Fluoranthene-d10	1.004	0.957		-4.7	50.0
2-Fluorophenol	0.918	1.044		13.7	50.0
Phenol-d6	1.191	1.176		-1.3	50.0
Nitrobenzene-d5	0.293	0.292		-0.3	50.0
2-Fluorobiphenyl	1.673	1.615		-3.5	50.0
2,4,6-Tribromophenol	0.104	0.131		26.0	50.0
Terphenyl-d14	0.812	0.765		-5.8	50.0
1,4-Dioxane	0.417	0.424		1.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037811.D
 Acq On : 19 Sep 2025 13:03
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

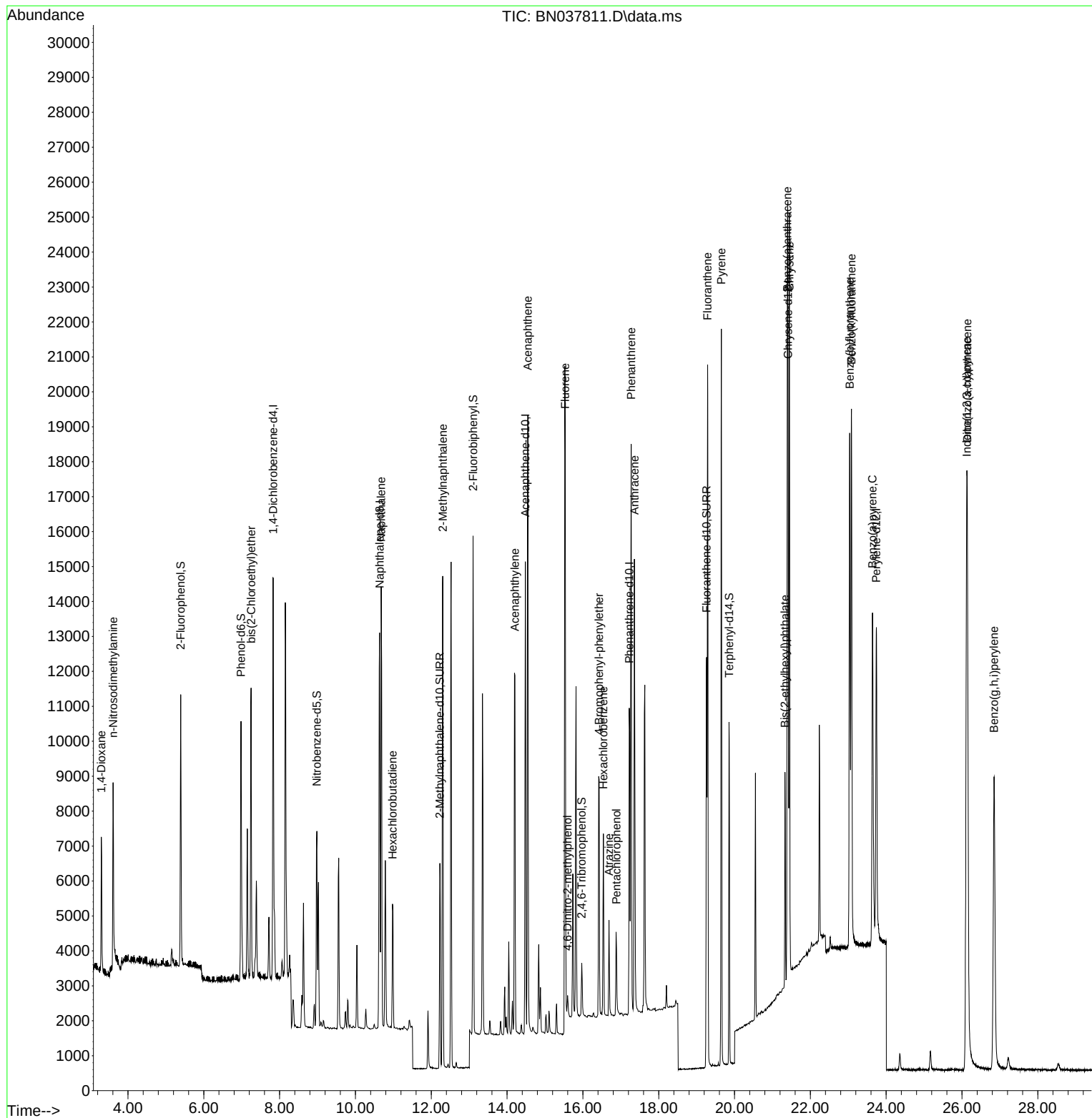
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5811	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15706	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7363	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	13521	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	12361	0.400	ng	0.00
35) Perylene-d12	23.741	264	12915	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	6068	0.455	ng	0.00
5) Phenol-d6	6.980	99	6833	0.395	ng	0.00
8) Nitrobenzene-d5	8.982	82	4585	0.399	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7805	0.375	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	963	0.501	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11890	0.386	ng	-0.01
27) Fluoranthene-d10	19.262	212	12937	0.381	ng	0.00
31) Terphenyl-d14	19.856	244	9455	0.377	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	2462	0.407	ng	95
3) n-Nitrosodimethylamine	3.608	42	3283	0.415	ng	93
6) bis(2-Chloroethyl)ether	7.248	93	6036	0.391	ng	99
9) Naphthalene	10.680	128	16766	0.391	ng	100
10) Hexachlorobutadiene	10.979	225	3007	0.387	ng	# 100
12) 2-Methylnaphthalene	12.303	142	10188	0.384	ng	99
16) Acenaphthylene	14.206	152	12502	0.370	ng	99
17) Acenaphthene	14.548	154	8660	0.379	ng	98
18) Fluorene	15.535	166	10559	0.382	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	416	0.332	ng	# 84
21) 4-Bromophenyl-phenylether	16.429	248	3252	0.369	ng	97
22) Hexachlorobenzene	16.540	284	4063	0.401	ng	99
23) Atrazine	16.689	200	2102	0.375	ng	95
24) Pentachlorophenol	16.888	266	1388	0.471	ng	93
25) Phenanthrene	17.273	178	16630	0.391	ng	100
26) Anthracene	17.359	178	14242	0.378	ng	100
28) Fluoranthene	19.290	202	18266	0.391	ng	100
30) Pyrene	19.652	202	18234	0.377	ng	100
32) Benzo(a)anthracene	21.393	228	16344	0.379	ng	100
33) Chrysene	21.447	228	18321	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	5701	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	24237	0.447	ng	100
37) Benzo(b)fluoranthene	23.037	252	19797	0.389	ng	98
38) Benzo(k)fluoranthene	23.084	252	20862	0.402	ng	99
39) Benzo(a)pyrene	23.639	252	15816	0.388	ng	97
40) Dibenzo(a,h)anthracene	26.139	278	18950	0.437	ng	97
41) Benzo(g,h,i)perylene	26.846	276	18988	0.391	ng	97

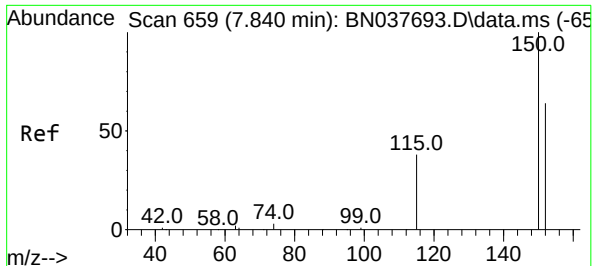
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

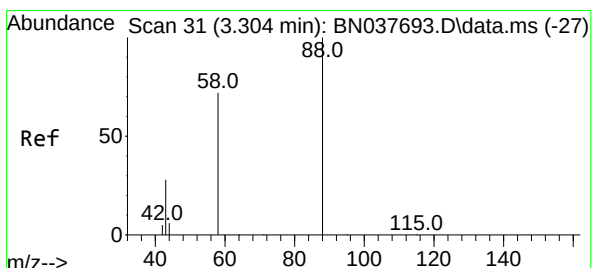
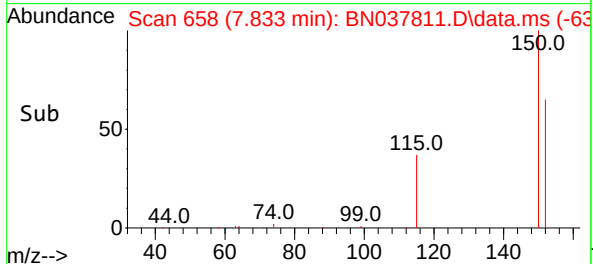
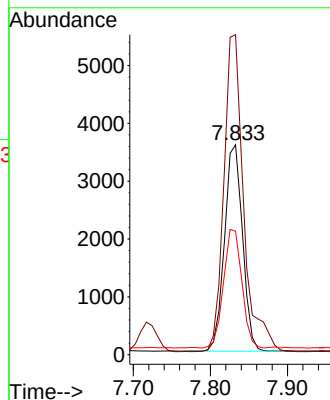
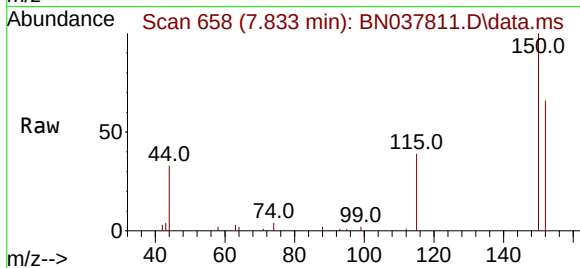




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

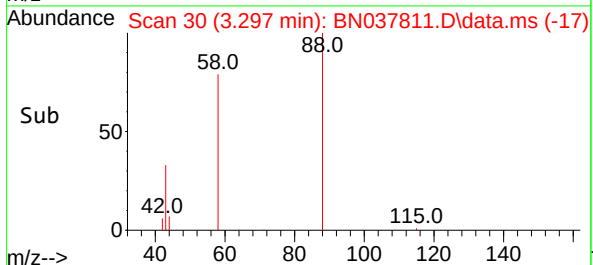
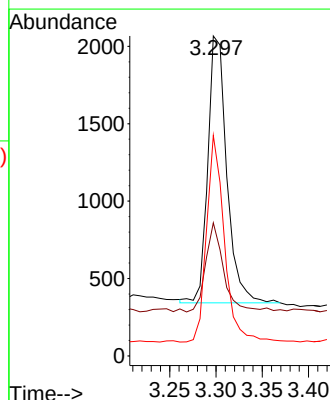
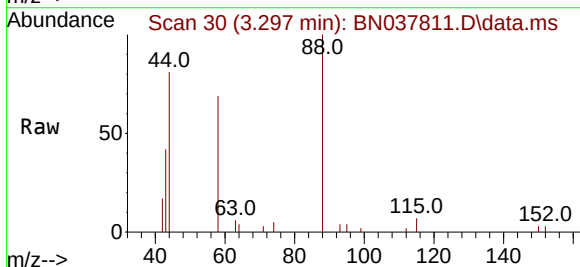
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

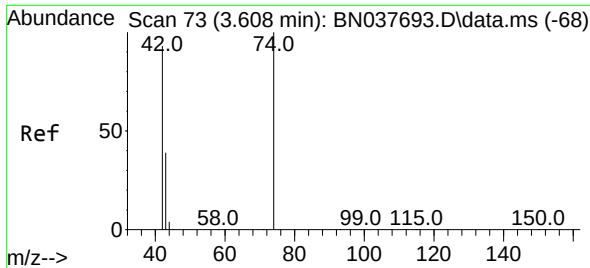
Tgt Ion:152 Resp: 5811
Ion Ratio Lower Upper
152 100
150 152.5 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 88 Resp: 2462
Ion Ratio Lower Upper
88 100
43 32.0 26.8 40.2
58 72.4 61.9 92.9

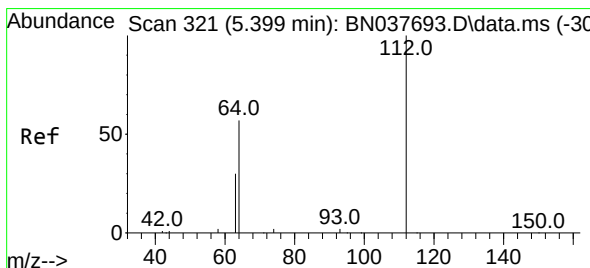
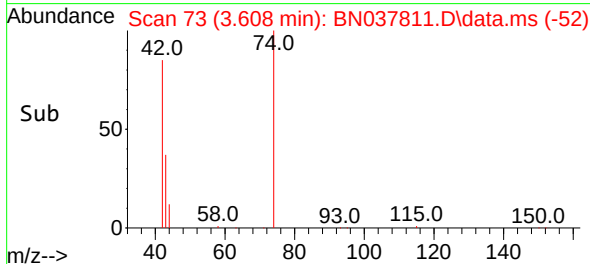
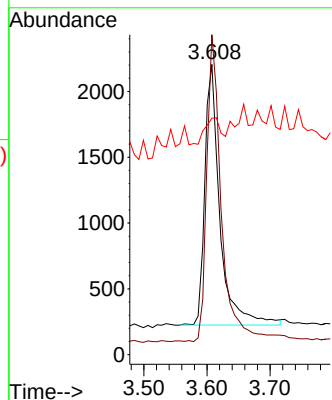
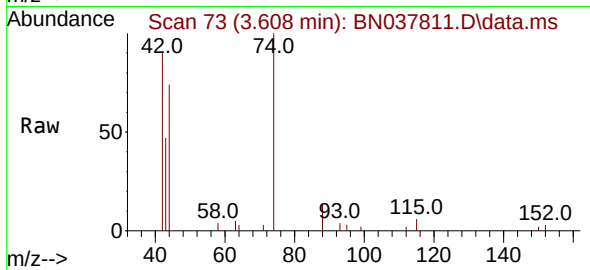




#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.608 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

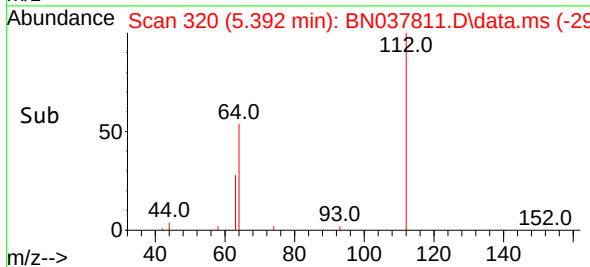
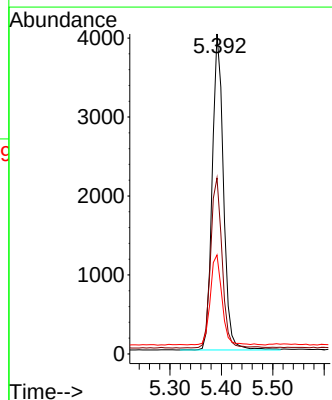
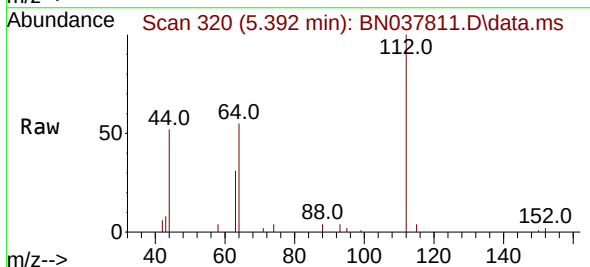
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

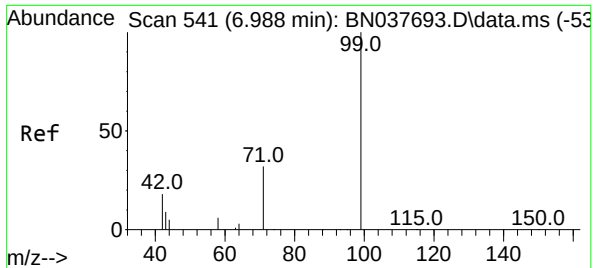
Tgt Ion: 42 Resp: 3283
Ion Ratio Lower Upper
42 100
74 115.6 86.0 129.0
44 10.4 8.4 12.6



#4
2-Fluorophenol
Concen: 0.455 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 112 Resp: 6068
Ion Ratio Lower Upper
112 100
64 54.8 44.9 67.3
63 29.3 24.7 37.1

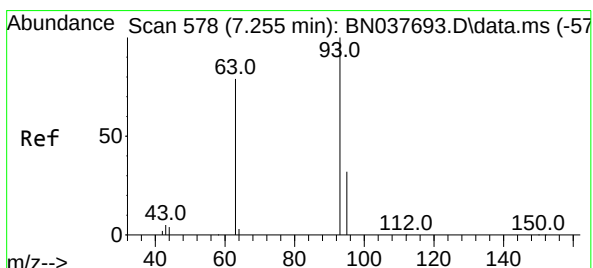
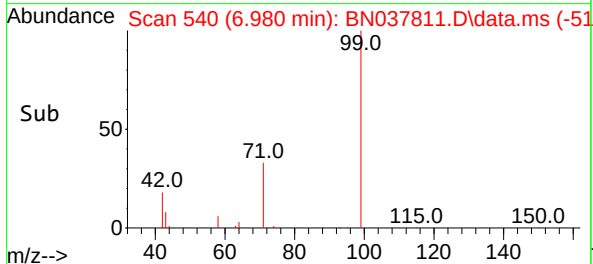
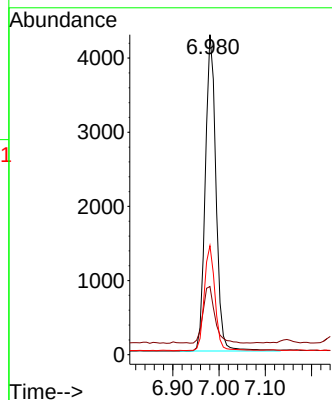
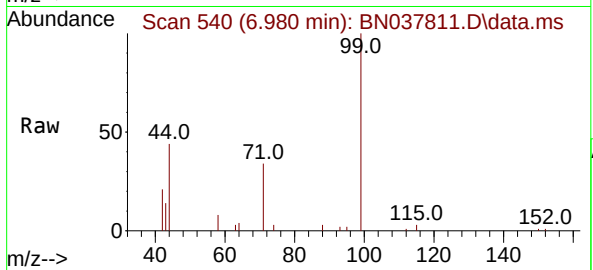




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

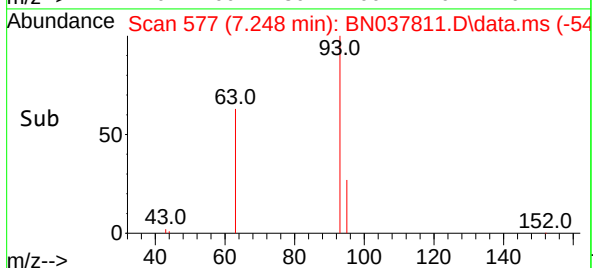
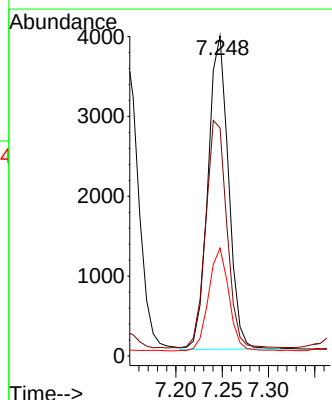
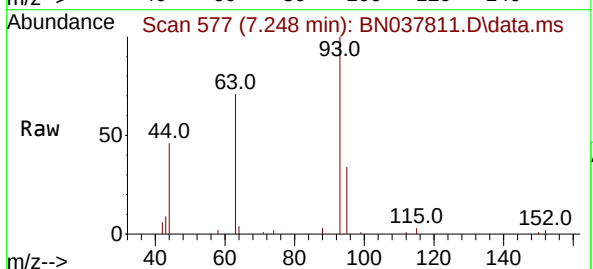
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

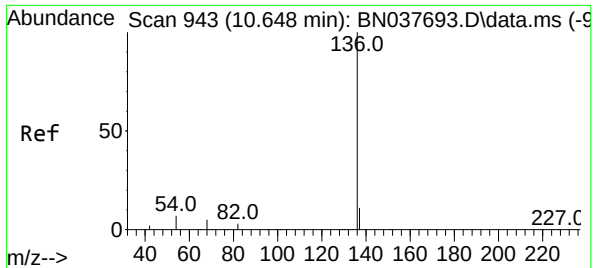
Tgt Ion: 99 Resp: 6833
Ion Ratio Lower Upper
99 100
42 20.0 16.6 24.8
71 33.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion: 93 Resp: 6036
Ion Ratio Lower Upper
93 100
63 75.0 60.6 90.8
95 32.6 26.0 39.0

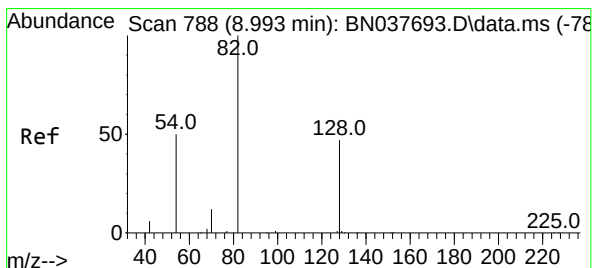
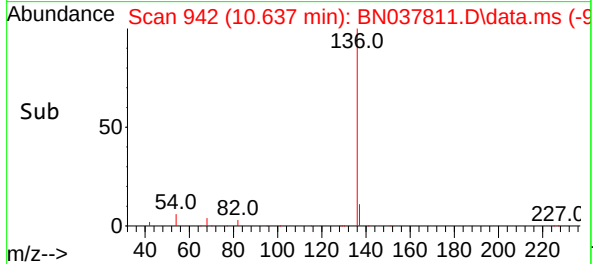
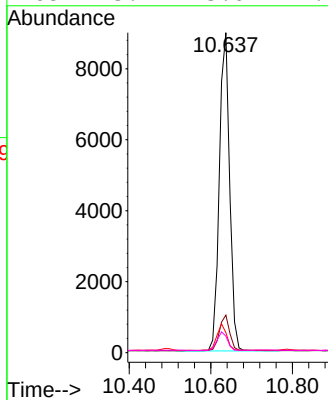
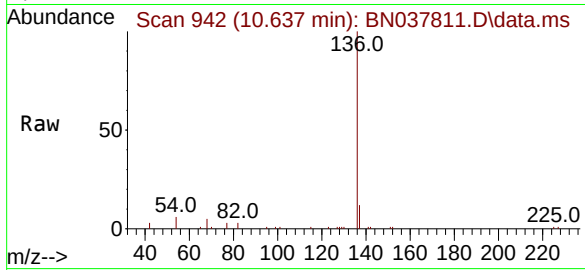




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

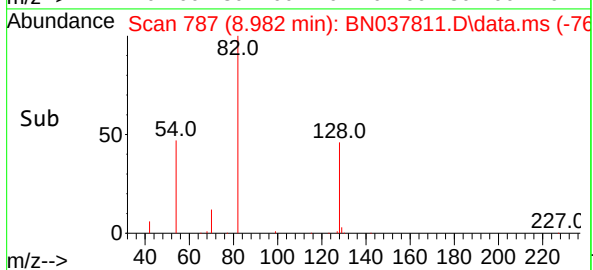
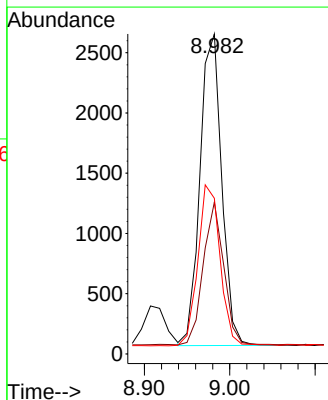
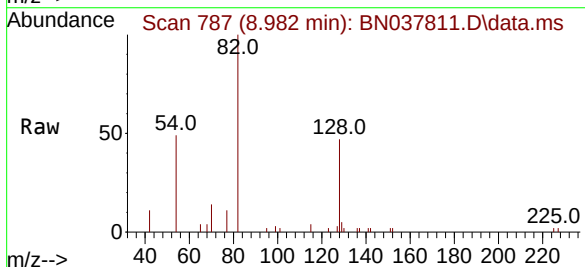
Instrument :
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ClientSampleId :
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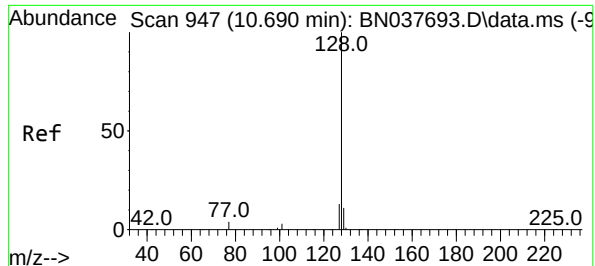
Tgt Ion:	136	Resp:	15706
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.1	13.7
54	6.3	6.3	9.5#
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:	82	Resp:	4585
Ion	Ratio	Lower	Upper
82	100		
128	47.4	38.3	57.5
54	48.6	41.4	62.2

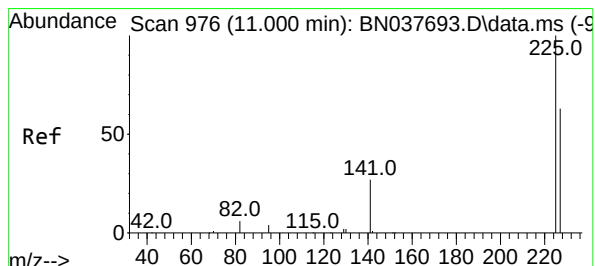
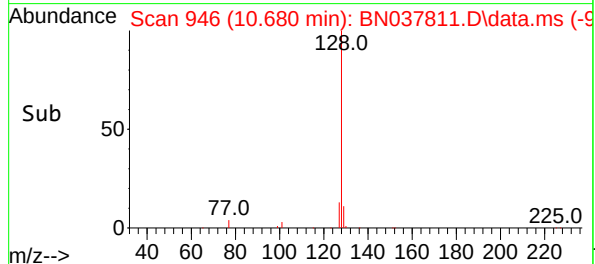
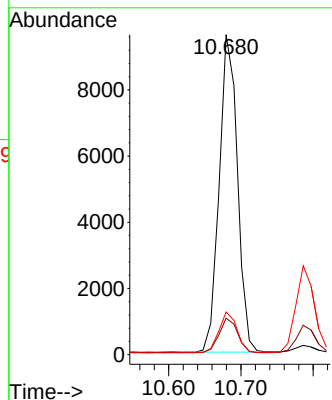
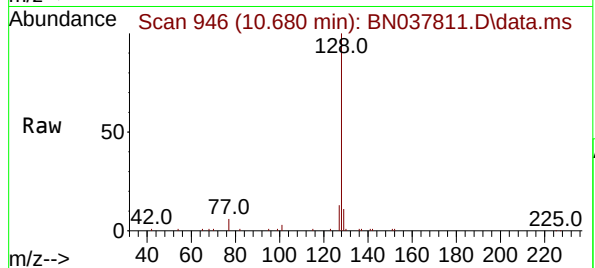




#9
Naphthalene
Concen: 0.391 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

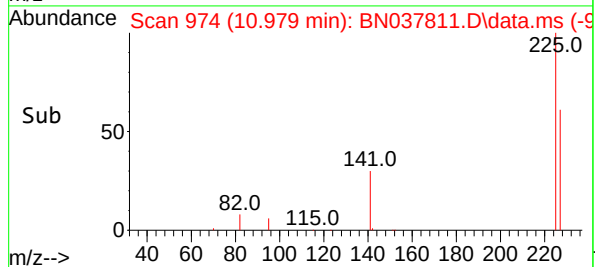
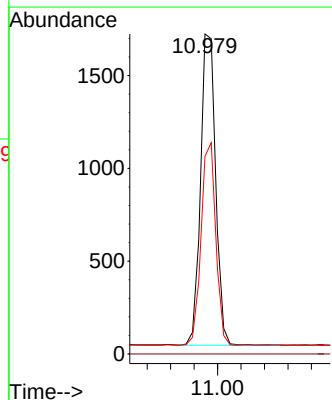
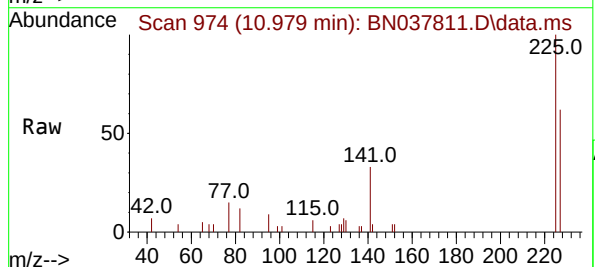
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

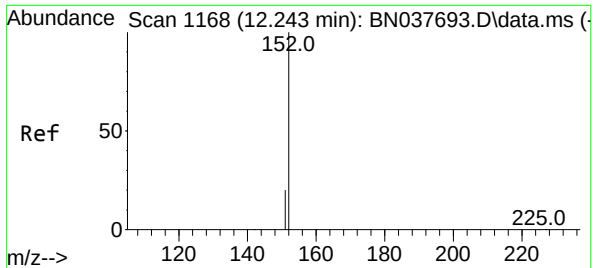
Tgt Ion:128 Resp: 16766
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.4 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:225 Resp: 3007
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

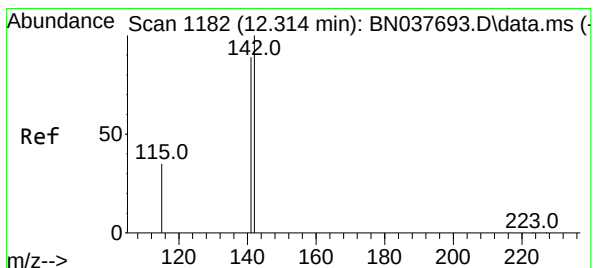
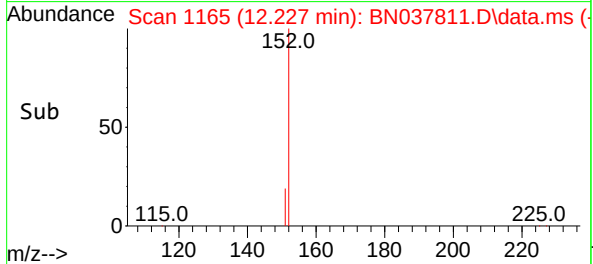
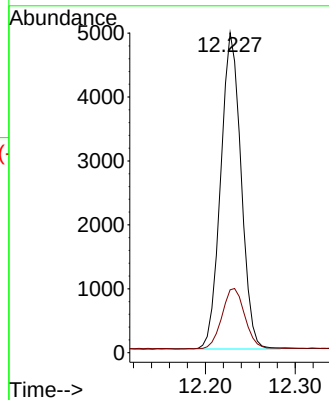
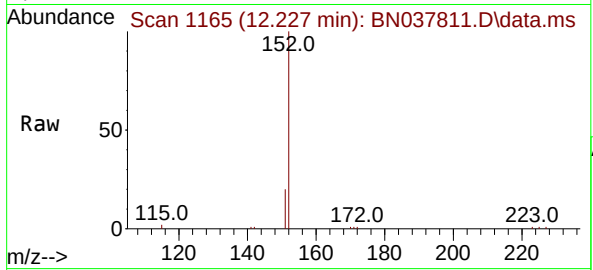




#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

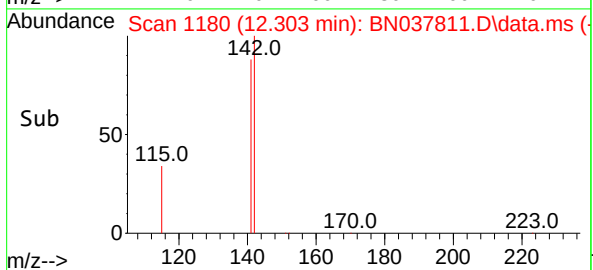
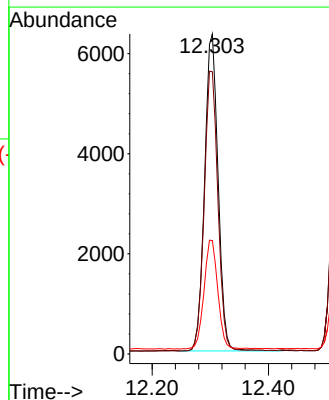
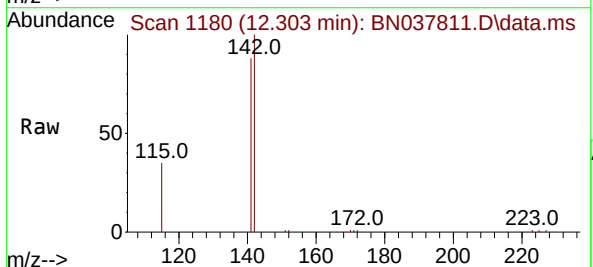
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ClientSampleId :
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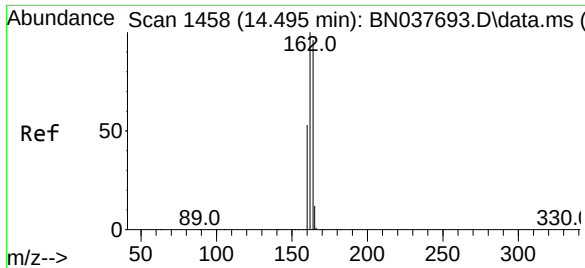
Tgt Ion:152 Resp: 7805
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:142 Resp: 10188
Ion Ratio Lower Upper
142 100
141 88.2 71.6 107.4
115 35.5 28.6 43.0

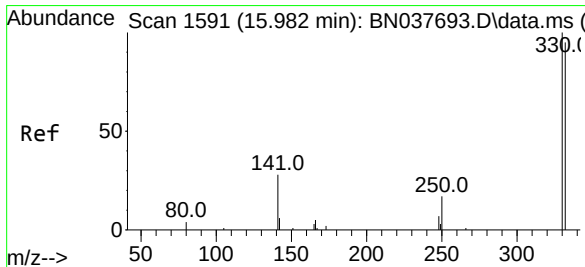
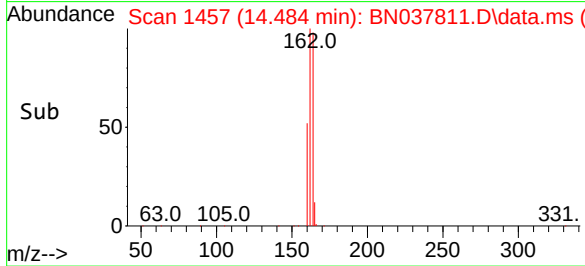
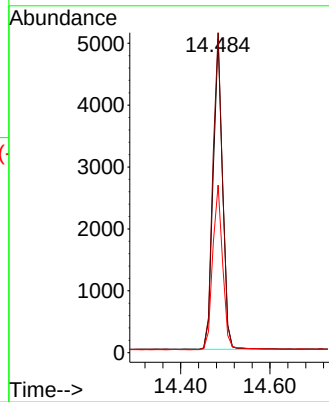
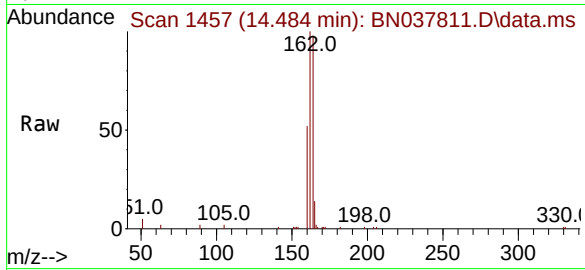




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

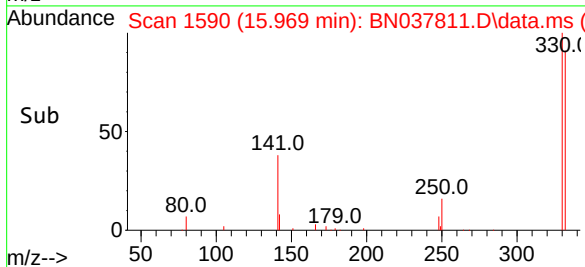
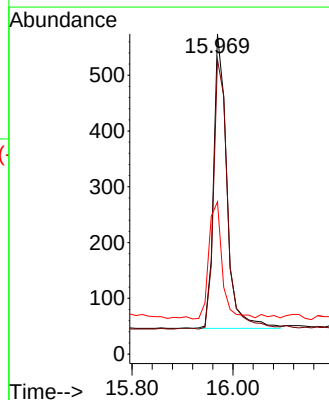
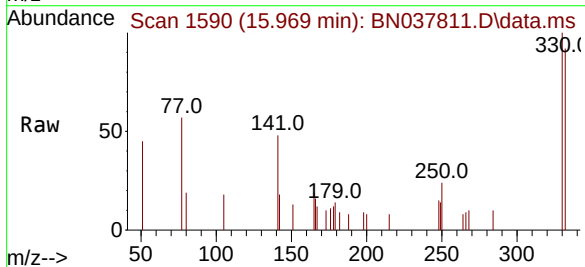
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

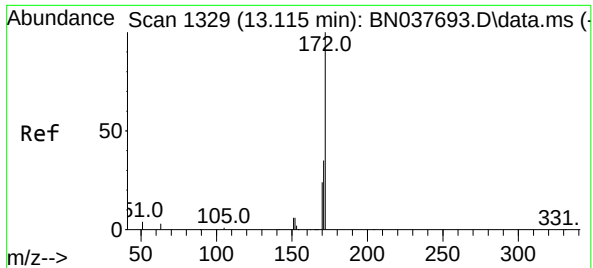
Tgt Ion	164	Resp	7363
Ion Ratio	Lower	Upper	
164	100		
162	101.9	83.1	124.7
160	53.4	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.501 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	330	Resp	963
Ion Ratio	Lower	Upper	
330	100		
332	96.7	75.3	112.9
141	40.4	35.0	52.4

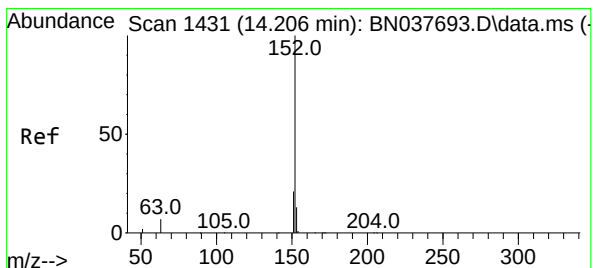
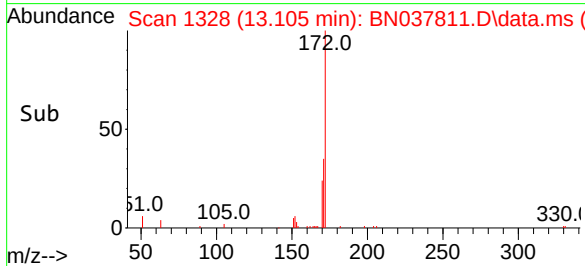
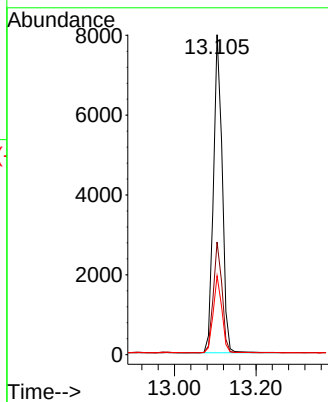
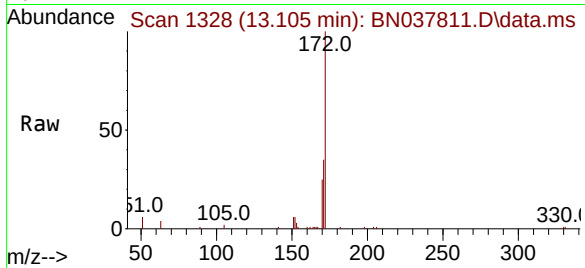




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

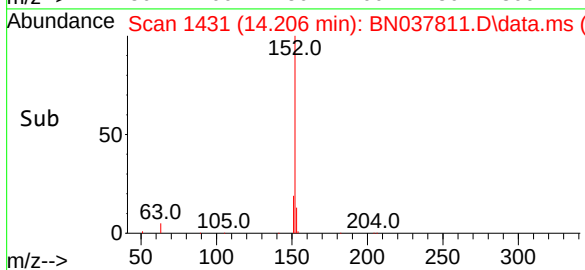
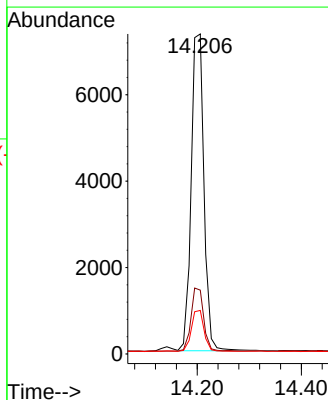
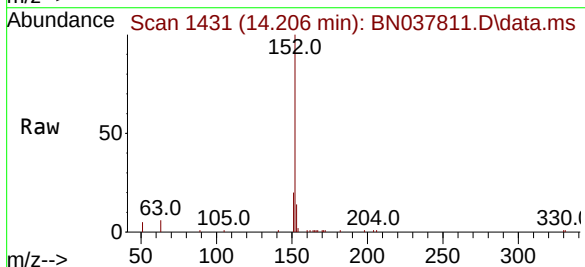
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

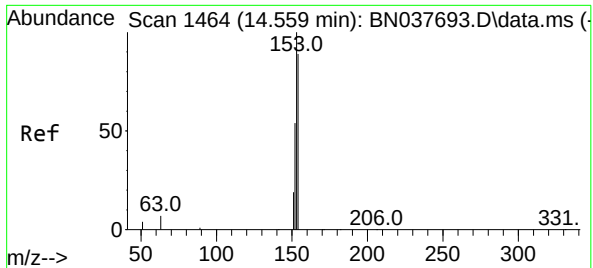
Tgt Ion:	172	Resp:	11890
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	43.0
170	24.6	19.8	29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:	152	Resp:	12502
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.2	24.2
153	13.3	10.4	15.6

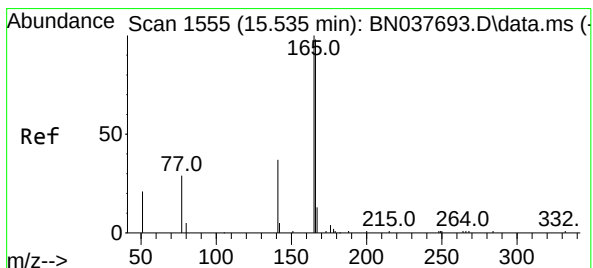
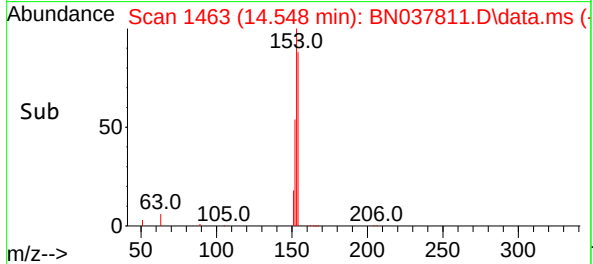
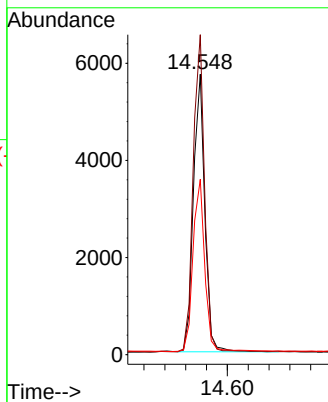
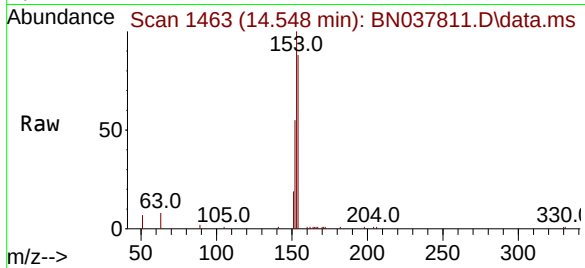




#17
Acenaphthene
Concen: 0.379 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

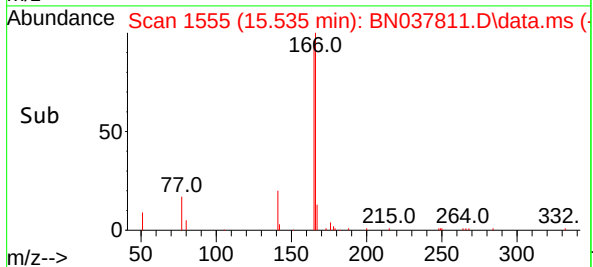
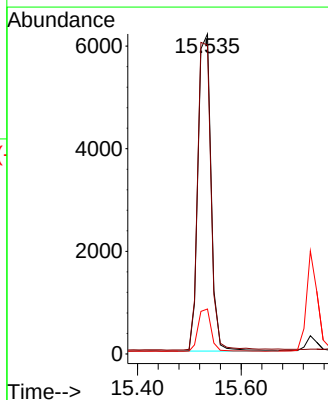
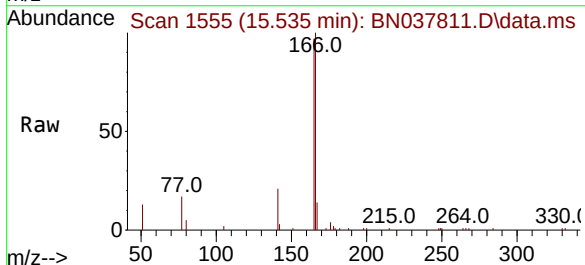
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

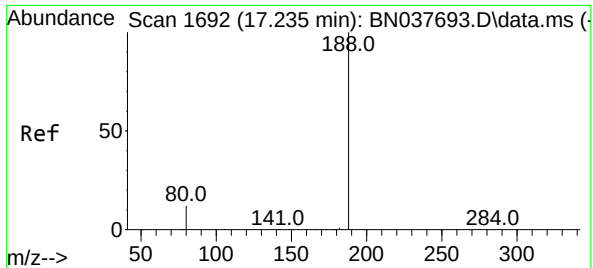
Tgt Ion:154 Resp: 8660
Ion Ratio Lower Upper
154 100
153 114.7 89.8 134.8
152 64.6 50.2 75.2



#18
Fluorene
Concen: 0.382 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:166 Resp: 10559
Ion Ratio Lower Upper
166 100
165 97.9 79.6 119.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

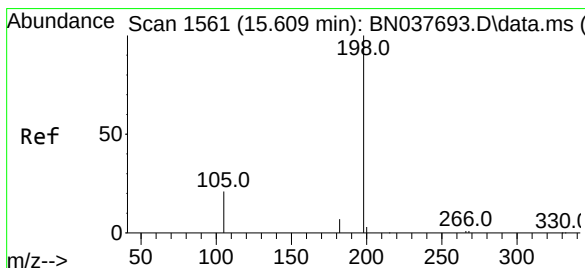
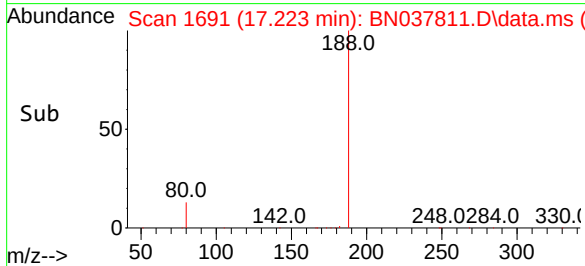
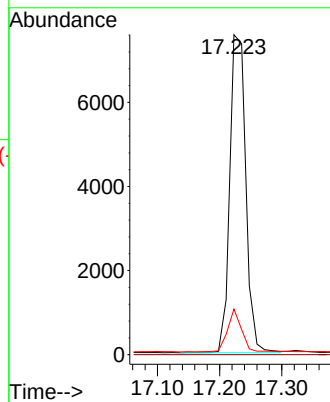
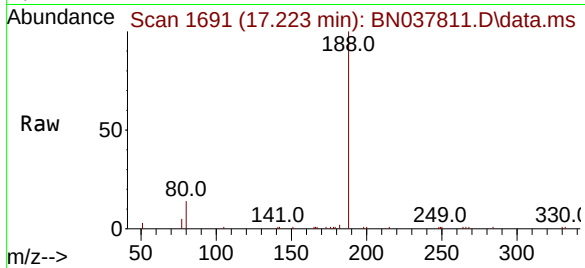
Tgt Ion:188 Resp: 13521

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.3 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.332 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

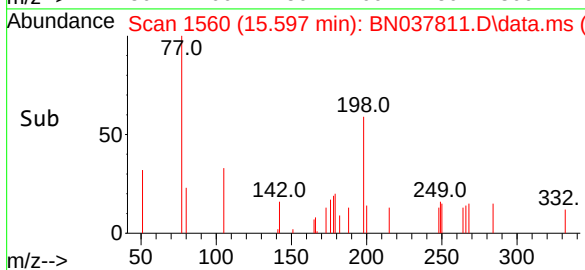
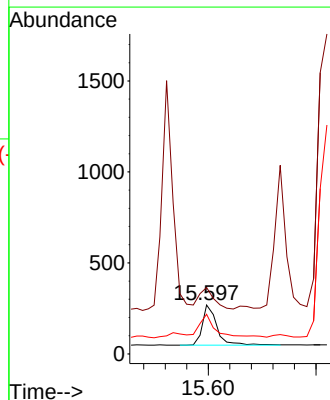
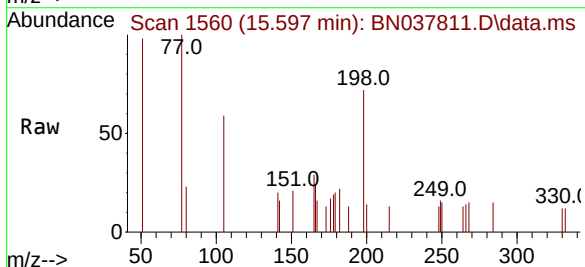
Tgt Ion:198 Resp: 416

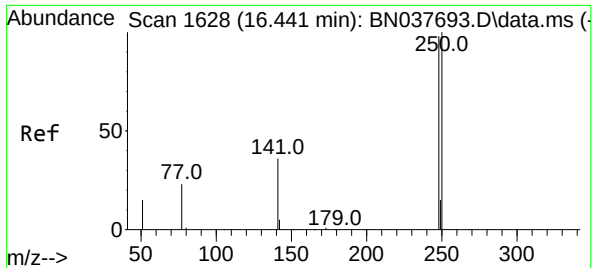
Ion Ratio Lower Upper

198 100

51 135.7 95.1 142.7

105 81.0 53.8 80.6#

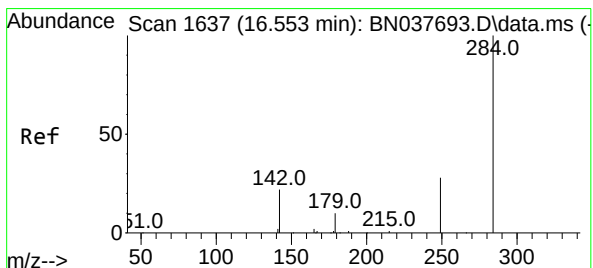
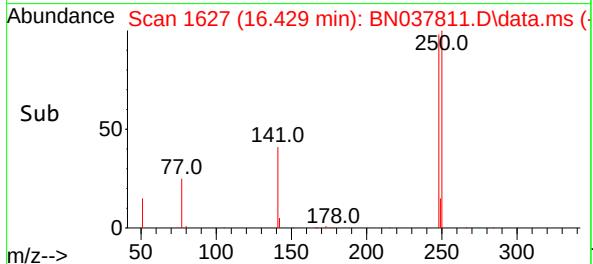
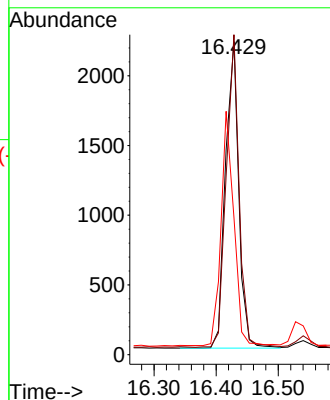
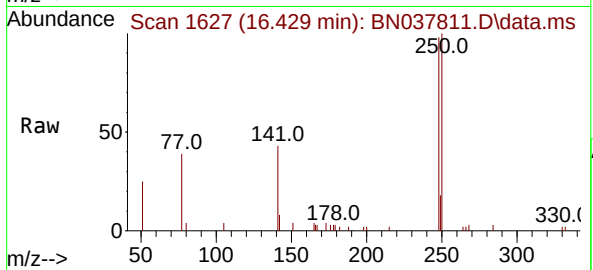




#21
4-Bromophenyl-phenylether
Concen: 0.369 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

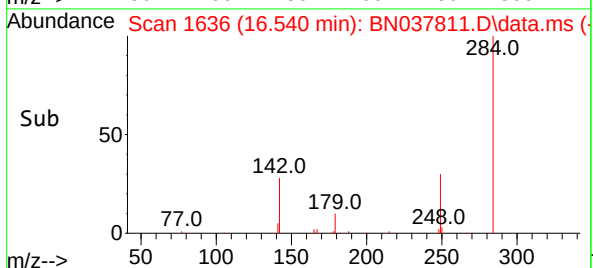
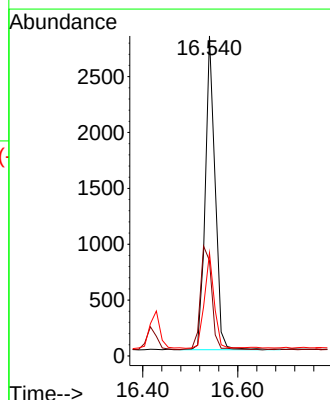
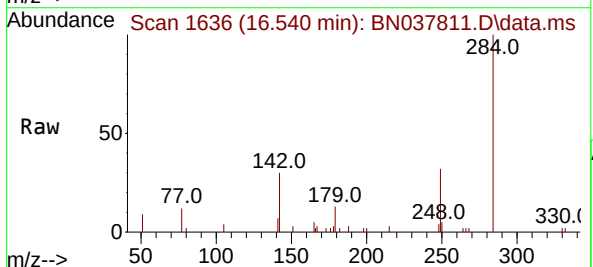
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

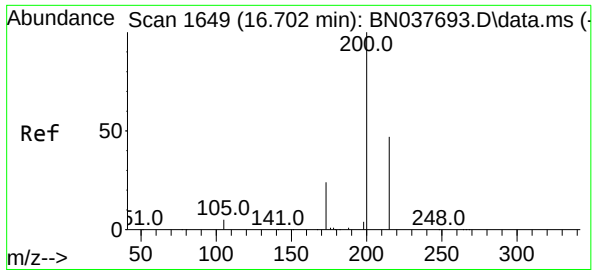
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.2	81.5	122.3
141	43.8	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.0	24.8	37.2

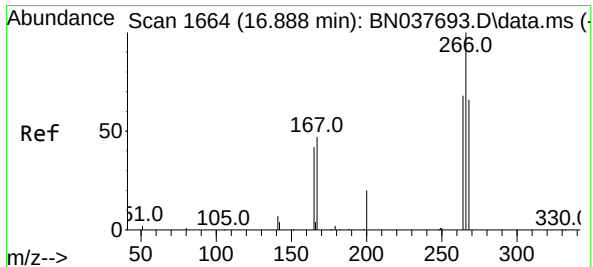
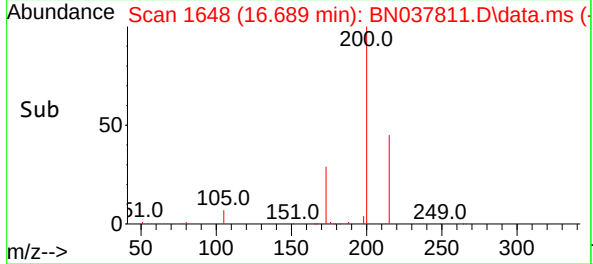
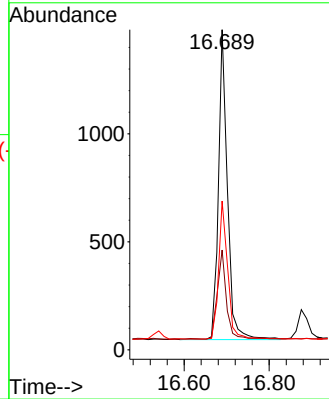
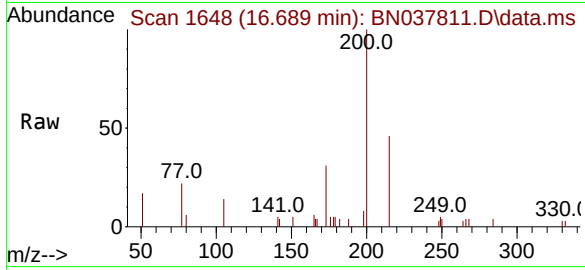




#23
Atrazine
Concen: 0.375 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

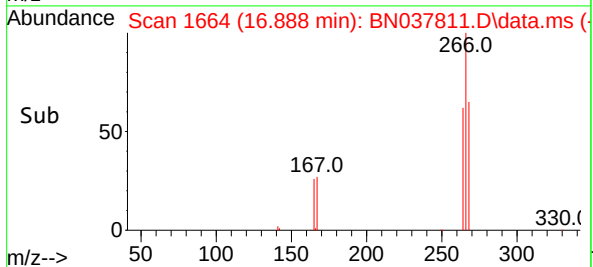
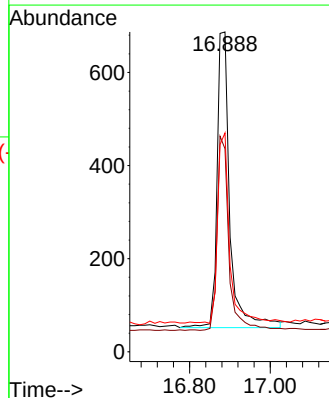
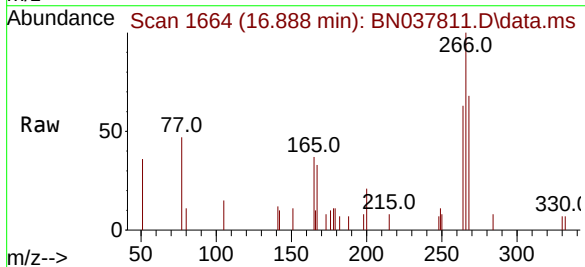
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

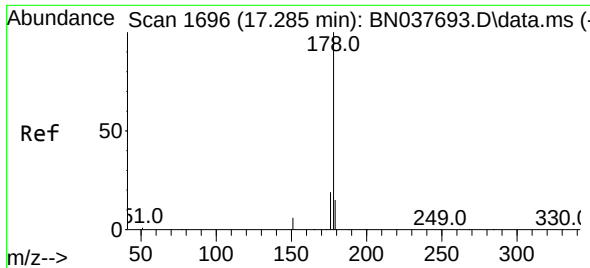
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.2	21.4	32.2
215	46.5	39.2	58.8



#24
Pentachlorophenol
Concen: 0.471 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.5	51.6	77.4
268	59.4	53.2	79.8

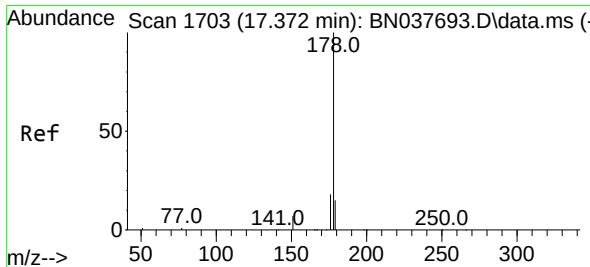
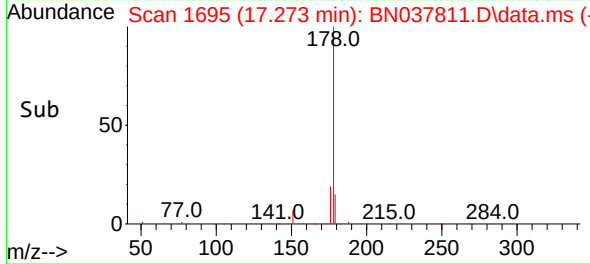
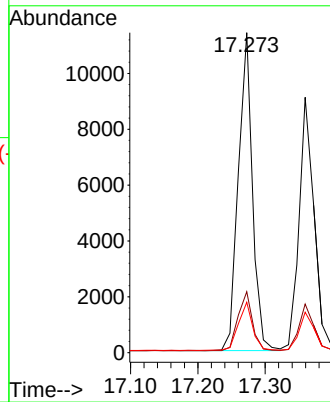
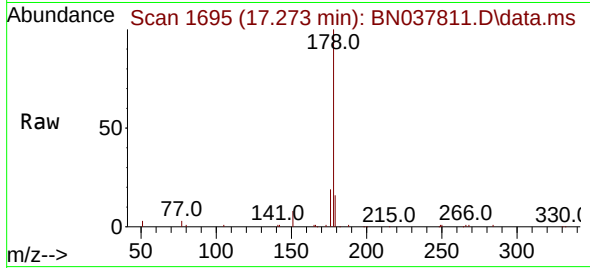




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.273 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

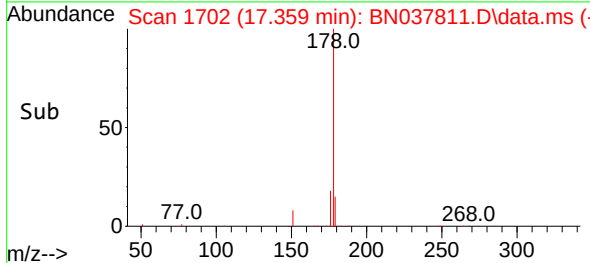
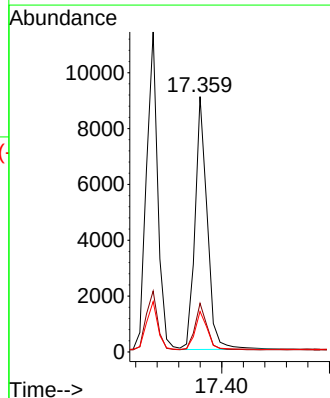
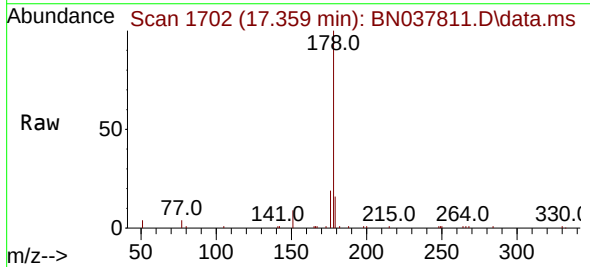
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

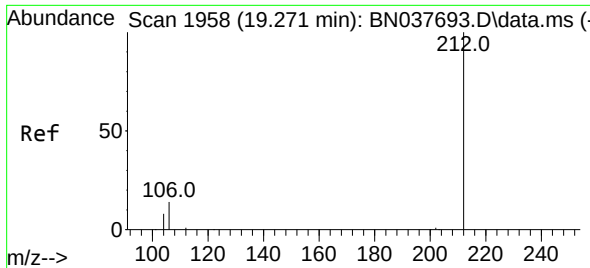
Tgt Ion:178 Resp: 16630
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.378 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:178 Resp: 14242
Ion Ratio Lower Upper
178 100
176 18.2 14.6 22.0
179 15.4 12.2 18.4

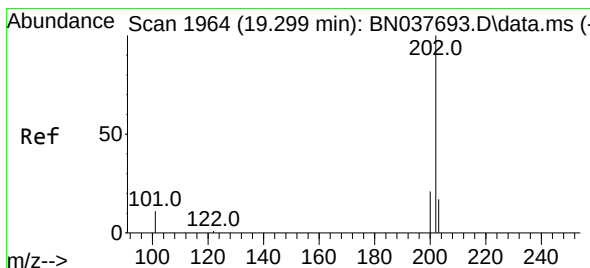
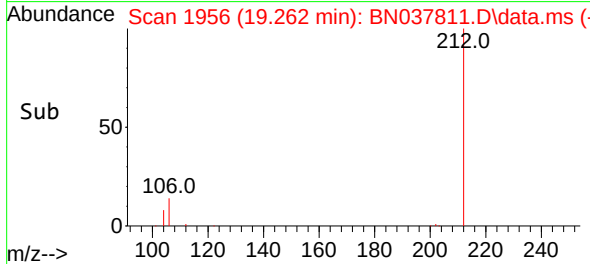
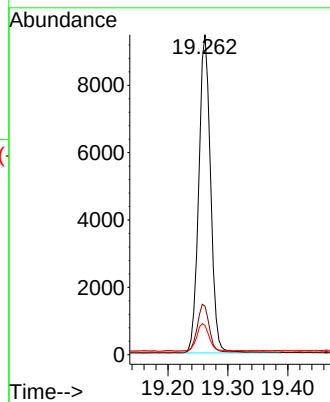
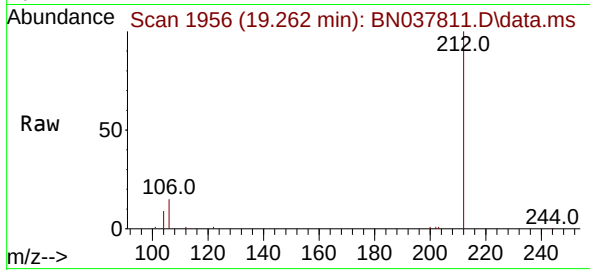




#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

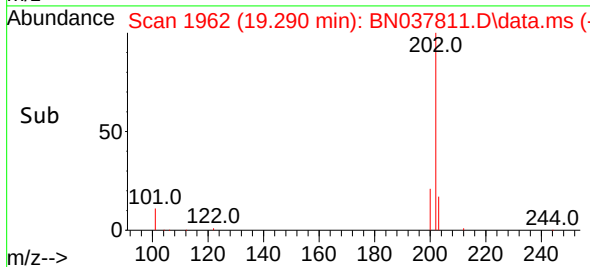
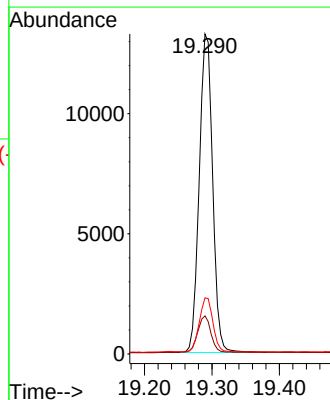
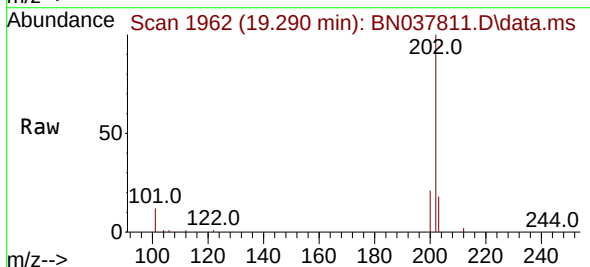
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

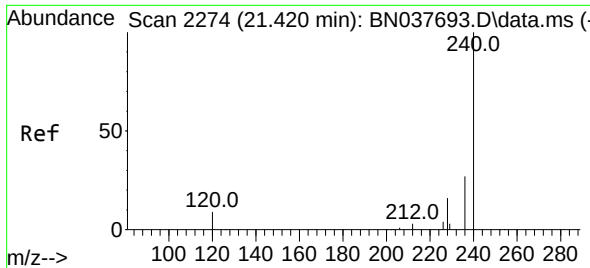
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.2	12.2	18.2
104	8.8	6.9	10.3



#28
Fluoranthene
Concen: 0.391 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.3	13.9
203	17.2	13.7	20.5

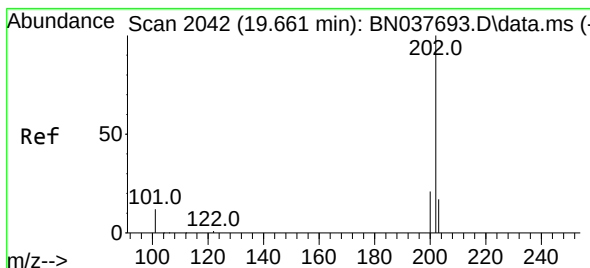
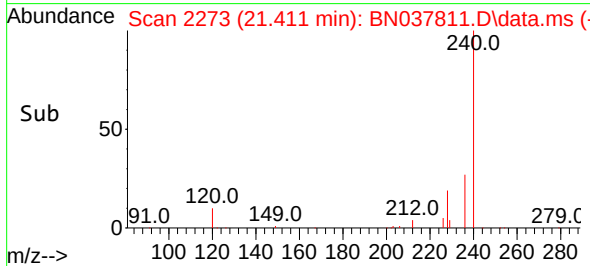
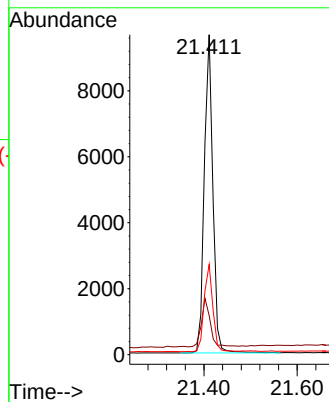
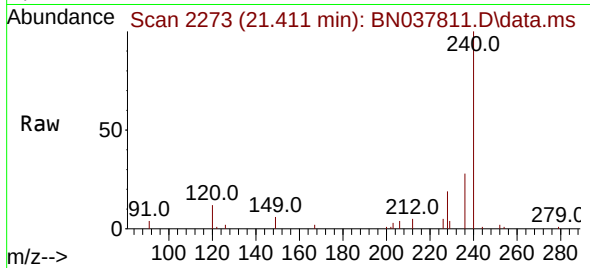




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

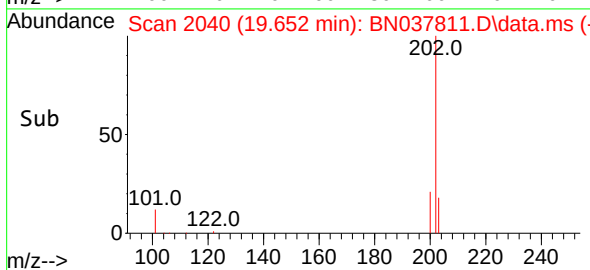
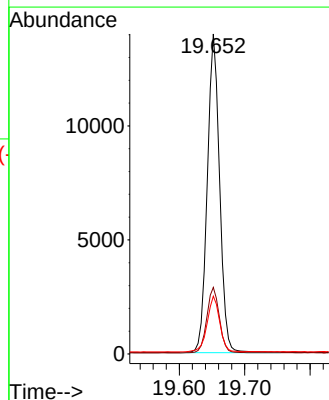
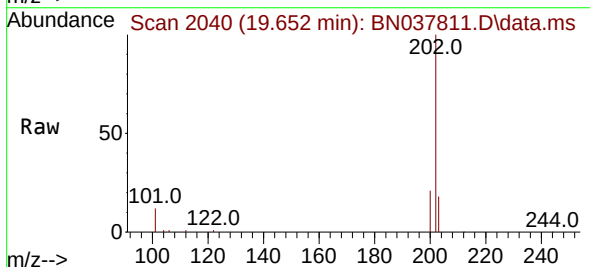
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

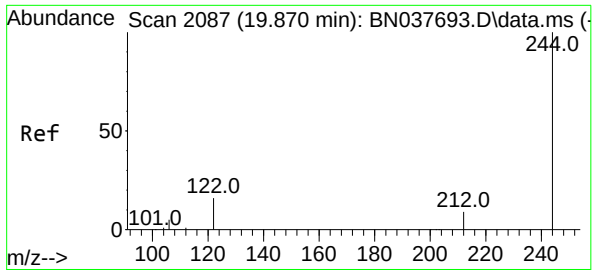
Tgt Ion:240 Resp: 12361
Ion Ratio Lower Upper
240 100
120 12.3 9.2 13.8
236 28.2 22.6 33.8



#30
Pyrene
Concen: 0.377 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:202 Resp: 18234
Ion Ratio Lower Upper
202 100
200 20.8 16.8 25.2
203 17.8 14.3 21.5

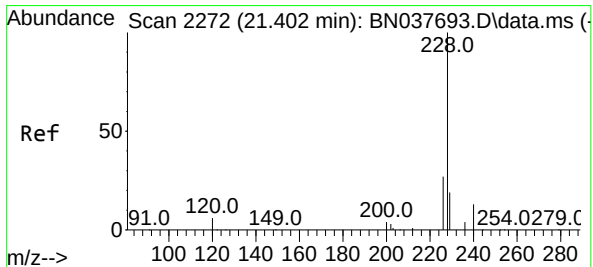
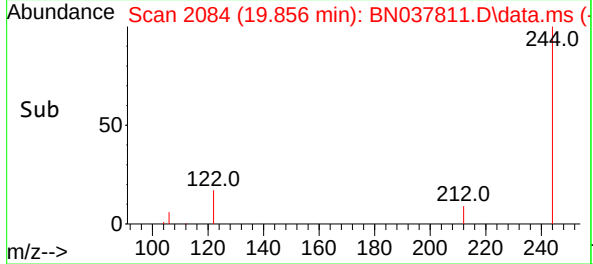
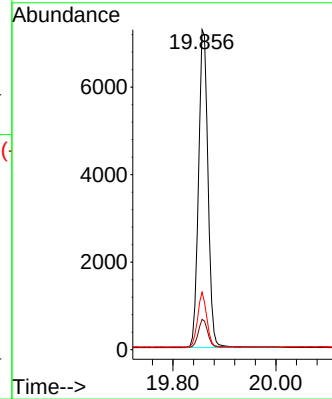
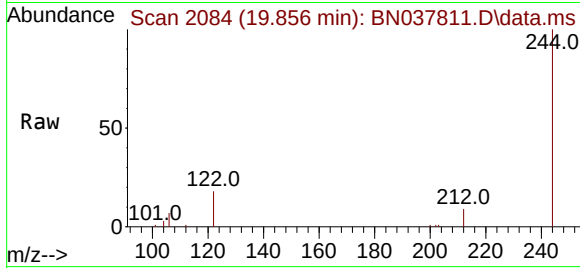




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

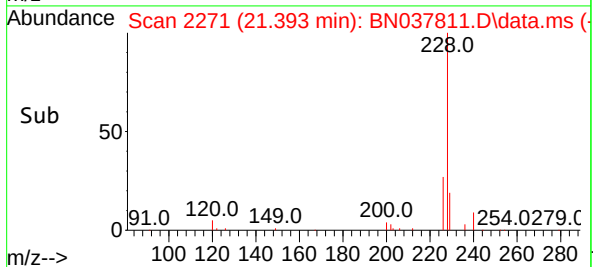
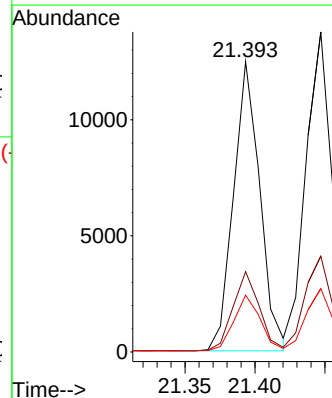
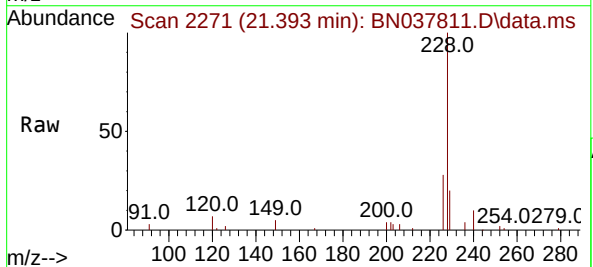
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

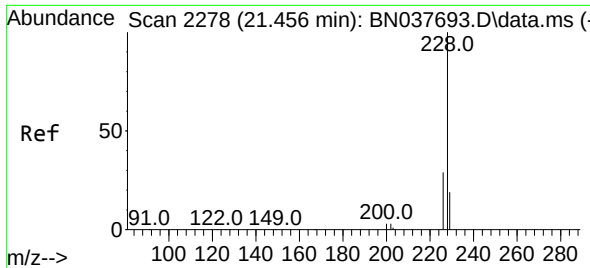
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	18.0	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	19.6	15.8	23.6

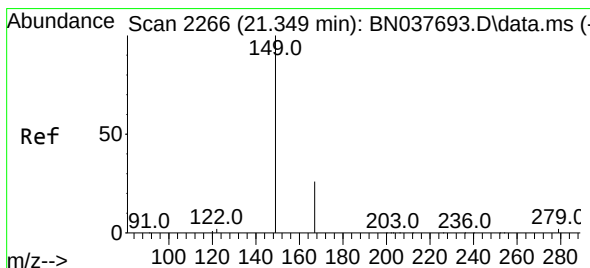
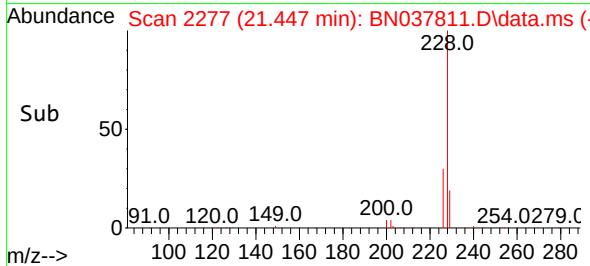
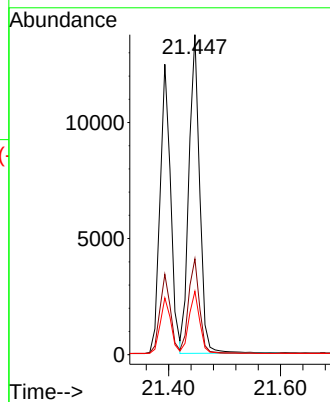
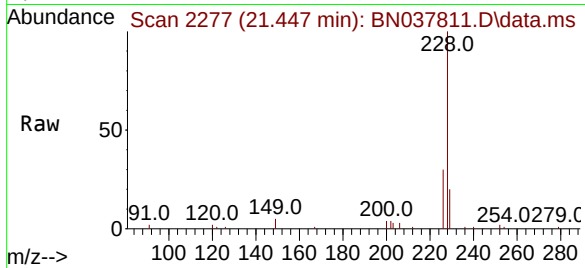




#33
Chrysene
Concen: 0.396 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

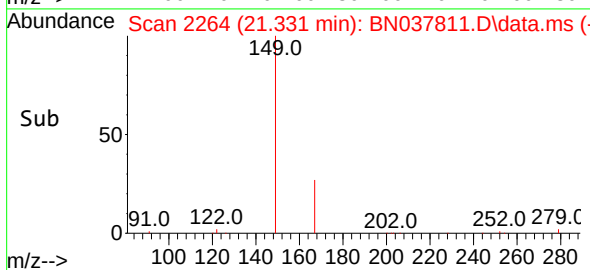
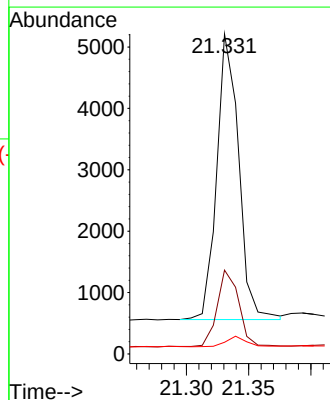
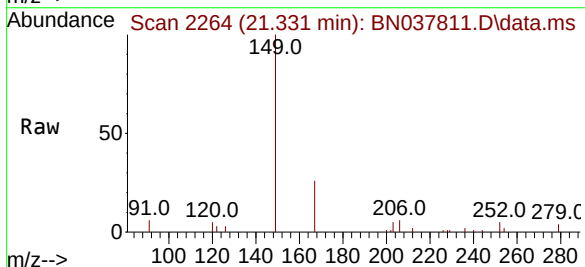
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

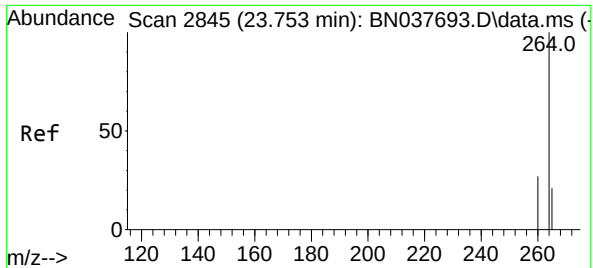
Tgt Ion:	228	Resp:	18321
Ion Ratio	Lower	Upper	
228	100		
226	30.0	23.5	35.3
229	19.8	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:	149	Resp:	5701
Ion Ratio	Lower	Upper	
149	100		
167	26.3	20.8	31.2
279	3.6	3.3	4.9

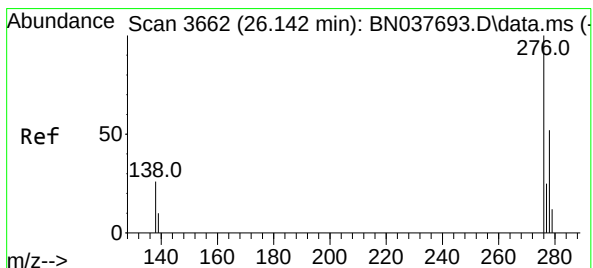
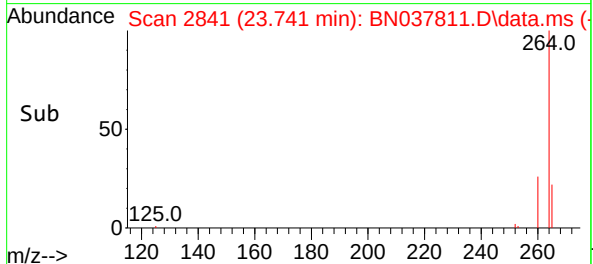
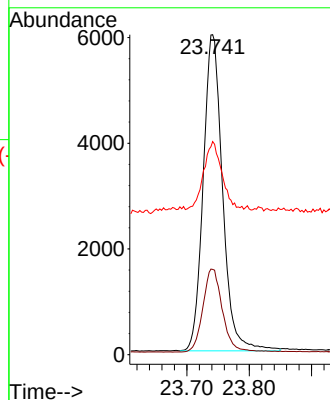
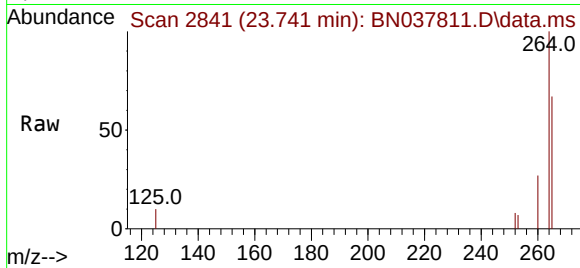




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

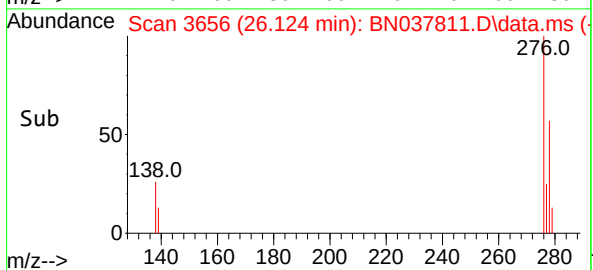
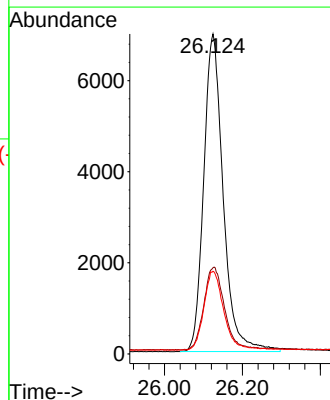
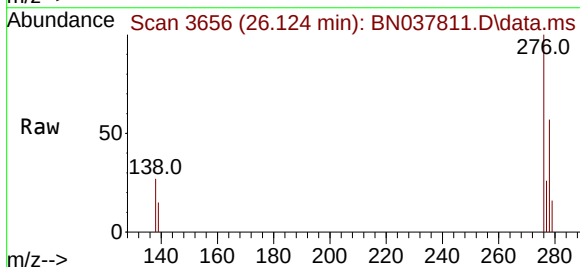
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

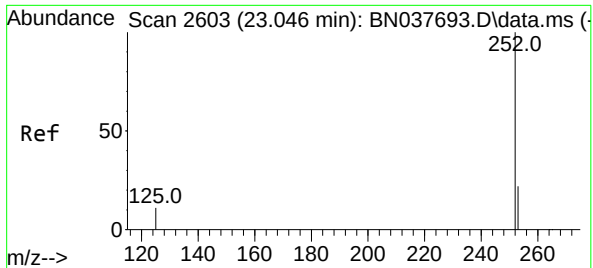
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.8	32.8
265	66.6	39.4	59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.447 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.9	32.9
277	25.1	20.1	30.1

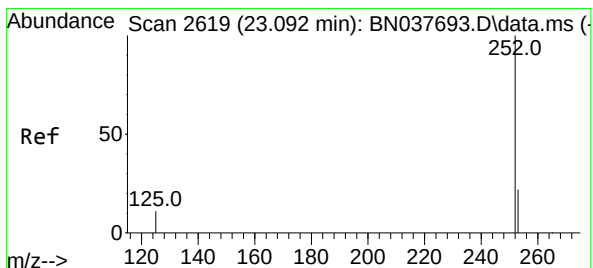
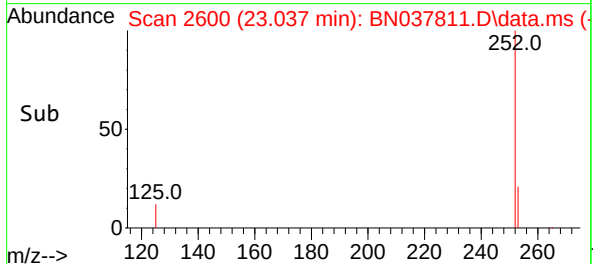
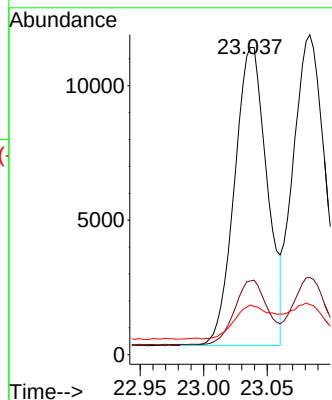
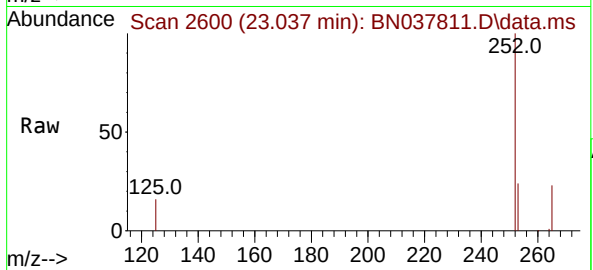




#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

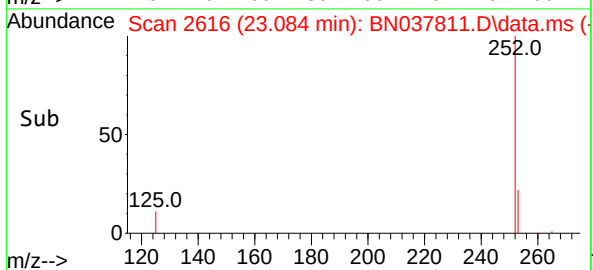
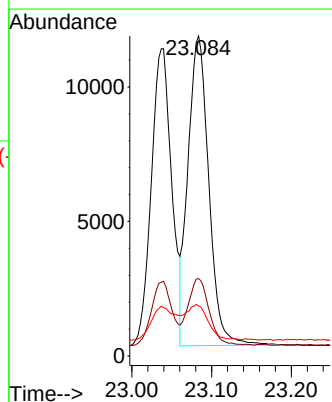
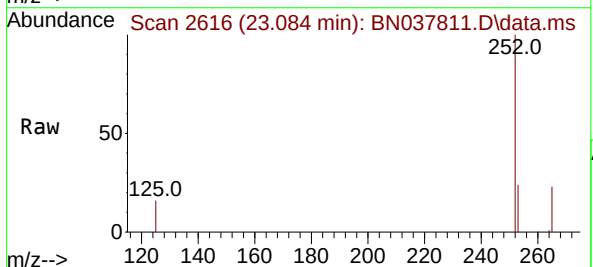
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

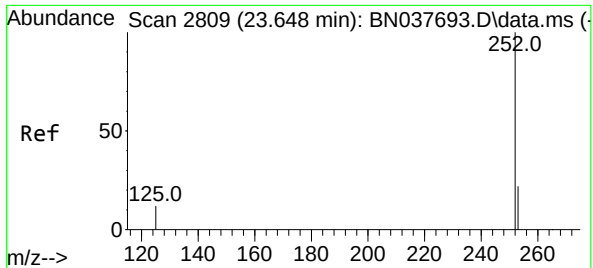
Tgt Ion:252 Resp: 19797
Ion Ratio Lower Upper
252 100
253 24.0 19.4 29.2
125 16.2 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 23.084 min Scan# 2616
Delta R.T. -0.009 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Tgt Ion:252 Resp: 20862
Ion Ratio Lower Upper
252 100
253 24.2 19.4 29.0
125 15.7 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.388 ng

RT: 23.639 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

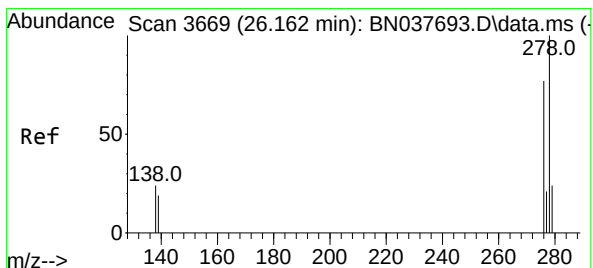
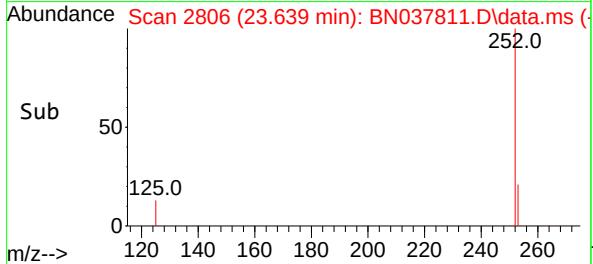
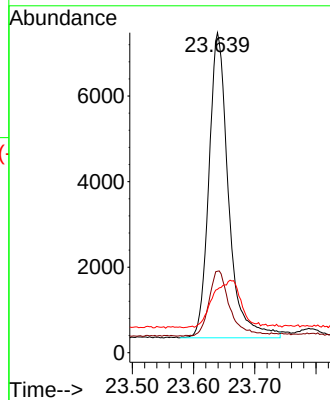
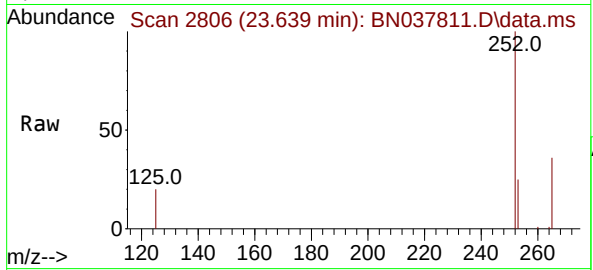
Tgt Ion:252 Resp: 15816

Ion Ratio Lower Upper

252 100

253 25.4 20.8 31.2

125 19.8 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.437 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.024 min

Lab File: BN037811.D

Acq: 19 Sep 2025 13:03

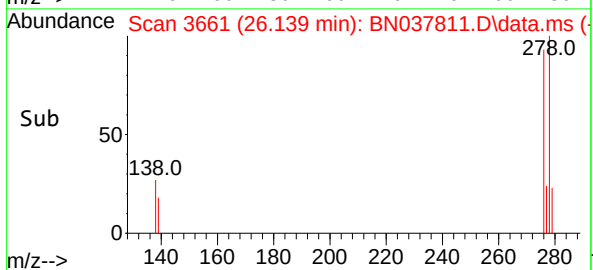
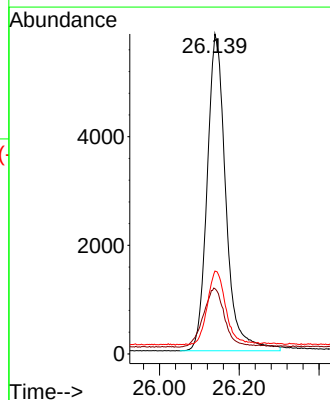
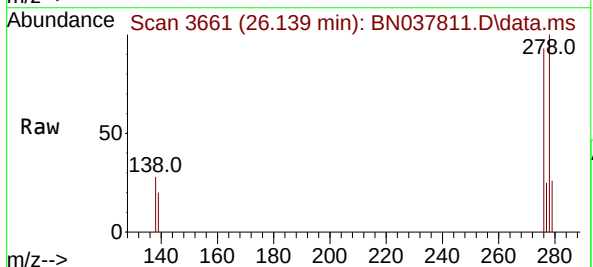
Tgt Ion:278 Resp: 18950

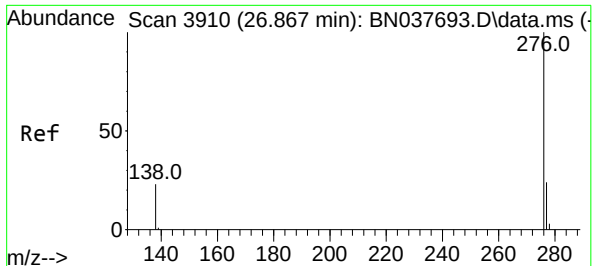
Ion Ratio Lower Upper

278 100

139 20.4 17.8 26.6

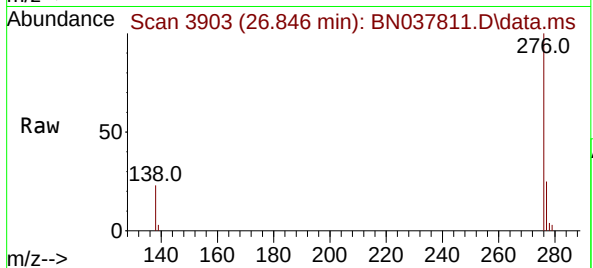
279 25.9 22.0 33.0



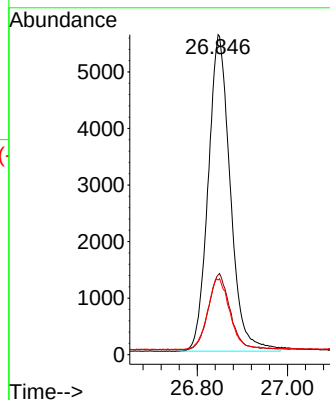
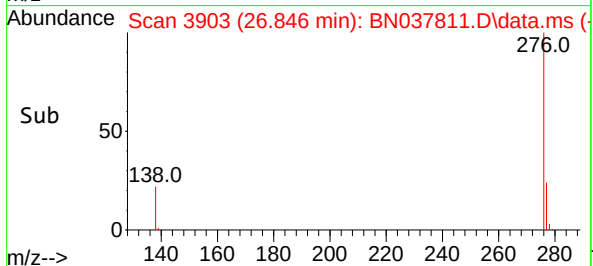


#41
Benzo(g,h,i)perylene
Concen: 0.391 ng
RT: 26.846 min Scan# 3910
Delta R.T. -0.021 min
Lab File: BN037811.D
Acq: 19 Sep 2025 13:03

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 18988
Ion Ratio Lower Upper
276 100
277 24.9 20.6 31.0
138 23.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	116	0.00
2	1,4-Dioxane	0.417	0.424	-1.7	117	0.00
3	n-Nitrosodimethylamine	0.544	0.565	-3.9	117	0.00
4 S	2-Fluorophenol	0.918	1.044	-13.7	136	0.00
5 S	Phenol-d6	1.191	1.176	1.3	118	0.00
6	bis(2-Chloroethyl)ether	1.064	1.039	2.3	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	119	-0.01
8 S	Nitrobenzene-d5	0.293	0.292	0.3	122	-0.01
9	Naphthalene	1.093	1.067	2.4	118	-0.01
10	Hexachlorobutadiene	0.198	0.191	3.5	115	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.497	6.2	118	-0.02
12	2-Methylnaphthalene	0.676	0.649	4.0	117	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	119	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.131	-26.0#	154#	-0.01
15 S	2-Fluorobiphenyl	1.673	1.615	3.5	116	-0.01
16	Acenaphthylene	1.834	1.698	7.4	113	0.00
17	Acenaphthene	1.240	1.176	5.2	115	-0.01
18	Fluorene	1.502	1.434	4.5	118	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	120	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.031	16.2	112	-0.01
21	4-Bromophenyl-phenylether	0.261	0.241	7.7	115	-0.01
22	Hexachlorobenzene	0.300	0.300	0.0	123	-0.01
23	Atrazine	0.166	0.155	6.6	123	-0.01
24	Pentachlorophenol	0.087	0.103	-18.4	165#	0.00
25	Phenanthrene	1.259	1.230	2.3	121	-0.01
26	Anthracene	1.116	1.053	5.6	118	-0.01
27 SURR	Fluoranthene-d10	1.004	0.957	4.7	123	0.00
28	Fluoranthene	1.381	1.351	2.2	124	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	132	0.00
30	Pyrene	1.566	1.475	5.8	125	0.00
31 S	Terphenyl-d14	0.812	0.765	5.8	126	-0.01
32	Benzo(a)anthracene	1.395	1.322	5.2	129	0.00
33	Chrysene	1.496	1.482	0.9	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	162#	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	144	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.877	-11.7	175#	-0.02
37	Benzo(b)fluoranthene	1.575	1.533	2.7	142	0.00
38	Benzo(k)fluoranthene	1.606	1.615	-0.6	153#	0.00
39 C	Benzo(a)pyrene	1.261	1.225	2.9	147	0.00
40	Dibenzo(a,h)anthracene	1.342	1.467	-9.3	175#	-0.02
41	Benzo(g,h,i)perylene	1.506	1.470	2.4	146	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037811.D
Acq On : 19 Sep 2025 13:03
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 13:27:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	116	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	117	0.00
3	n-Nitrosodimethylamine	0.400	0.415	-3.7	117	0.00
4 S	2-Fluorophenol	0.400	0.455	-13.7	136	0.00
5 S	Phenol-d6	0.400	0.395	1.3	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.391	2.3	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	119	-0.01
8 S	Nitrobenzene-d5	0.400	0.399	0.3	122	-0.01
9	Naphthalene	0.400	0.391	2.3	118	-0.01
10	Hexachlorobutadiene	0.400	0.387	3.3	115	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.375	6.3	118	-0.02
12	2-Methylnaphthalene	0.400	0.384	4.0	117	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	119	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.501	-25.2#	154	-0.01
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	116	-0.01
16	Acenaphthylene	0.400	0.370	7.5	113	0.00
17	Acenaphthene	0.400	0.379	5.3	115	-0.01
18	Fluorene	0.400	0.382	4.5	118	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	120	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.332	17.0	112	-0.01
21	4-Bromophenyl-phenylether	0.400	0.369	7.8	115	-0.01
22	Hexachlorobenzene	0.400	0.401	-0.3	123	-0.01
23	Atrazine	0.400	0.375	6.3	123	-0.01
24	Pentachlorophenol	0.400	0.471	-17.7	165	0.00
25	Phenanthrene	0.400	0.391	2.3	121	-0.01
26	Anthracene	0.400	0.378	5.5	118	-0.01
27 SURR	Fluoranthene-d10	0.400	0.381	4.8	123	0.00
28	Fluoranthene	0.400	0.391	2.3	124	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	132	0.00
30	Pyrene	0.400	0.377	5.8	125	0.00
31 S	Terphenyl-d14	0.400	0.377	5.8	126	-0.01
32	Benzo(a)anthracene	0.400	0.379	5.3	129	0.00
33	Chrysene	0.400	0.396	1.0	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	162	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	144	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.447	-11.7	175	-0.02
37	Benzo(b)fluoranthene	0.400	0.389	2.8	142	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	153	0.00
39 C	Benzo(a)pyrene	0.400	0.388	3.0	147	0.00
40	Dibenzo(a,h)anthracene	0.400	0.437	-9.2	175	-0.02
41	Benzo(g,h,i)perylene	0.400	0.391	2.3	146	-0.02

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/19/2025 14:19
 Lab File ID: BN037813.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.473		-10.8	20.0
Fluoranthene-d10	1.004	0.897		-10.7	20.0
2-Fluorophenol	0.918	0.947		3.2	20.0
Phenol-d6	1.191	1.079		-9.4	20.0
Nitrobenzene-d5	0.293	0.284		-3.1	20.0
2-Fluorobiphenyl	1.673	1.589		-5.0	20.0
2,4,6-Tribromophenol	0.104	0.121		16.3	20.0
Terphenyl-d14	0.812	0.730		-10.1	20.0
1,4-Dioxane	0.417	0.410		-1.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037813.D
 Acq On : 19 Sep 2025 14:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

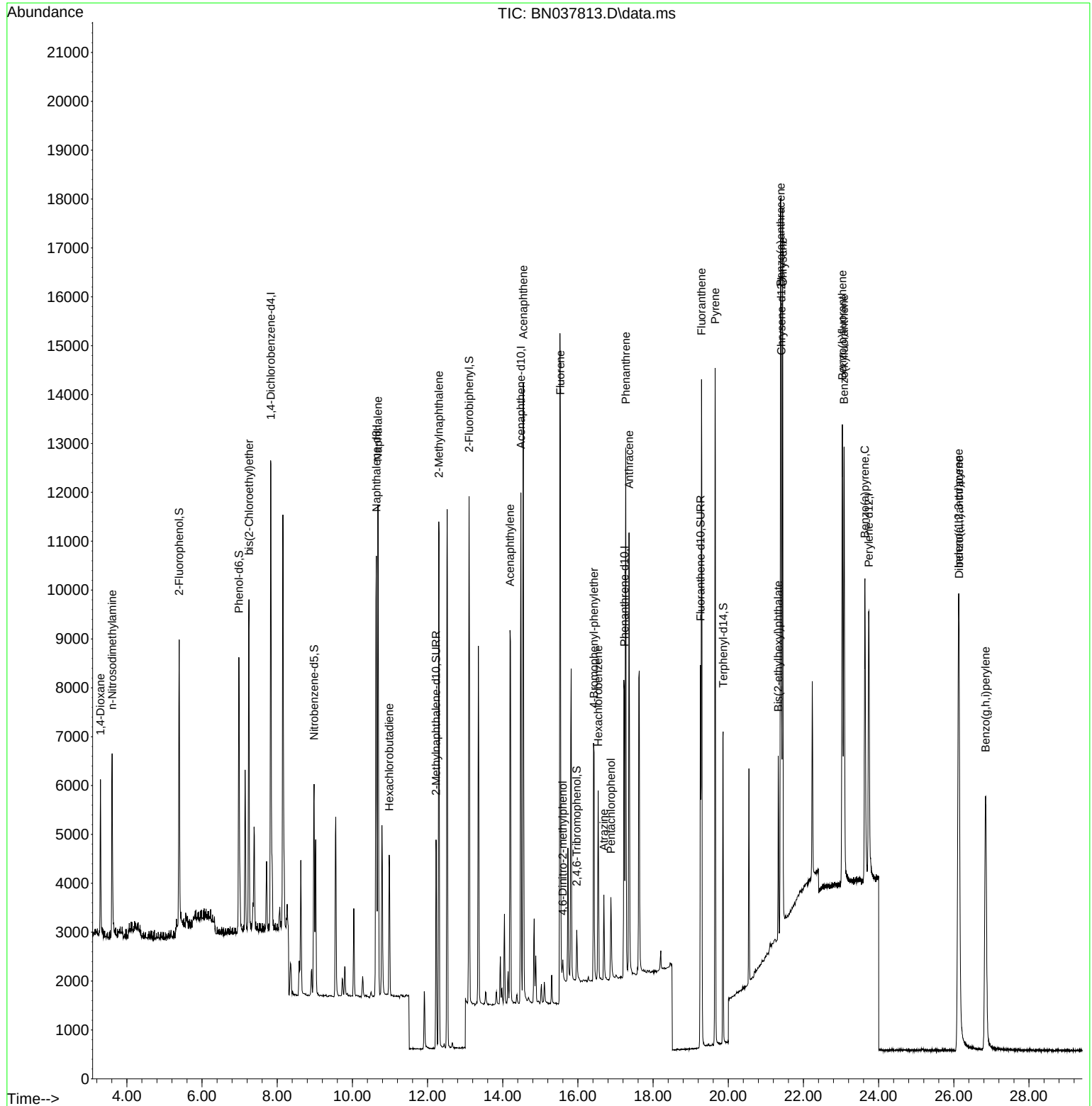
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	4812	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	12410	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	5585	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	9638	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8466	0.400	ng	0.00
35) Perylene-d12	23.739	264	8084	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	4556	0.412	ng	0.00
5) Phenol-d6	6.981	99	5192	0.362	ng	0.00
8) Nitrobenzene-d5	8.982	82	3525	0.388	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	5866	0.357	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	674	0.463	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	8872	0.380	ng	-0.01
27) Fluoranthene-d10	19.262	212	8646	0.357	ng	0.00
31) Terphenyl-d14	19.861	244	6183	0.360	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	1973	0.394	ng	96
3) n-Nitrosodimethylamine	3.608	42	2320	0.354	ng	92
6) bis(2-Chloroethyl)ether	7.248	93	4798	0.375	ng	99
9) Naphthalene	10.680	128	13094	0.386	ng	99
10) Hexachlorobutadiene	10.979	225	2398	0.391	ng	# 100
12) 2-Methylnaphthalene	12.299	142	7752	0.369	ng	98
16) Acenaphthylene	14.195	152	9175	0.358	ng	100
17) Acenaphthene	14.548	154	6415	0.370	ng	97
18) Fluorene	15.535	166	7451	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	309	0.346	ng	# 73
21) 4-Bromophenyl-phenylether	16.429	248	2295	0.365	ng	# 95
22) Hexachlorobenzene	16.540	284	3006	0.416	ng	98
23) Atrazine	16.689	200	1460	0.365	ng	96
24) Pentachlorophenol	16.876	266	969	0.462	ng	96
25) Phenanthrene	17.273	178	11575	0.381	ng	100
26) Anthracene	17.360	178	9951	0.370	ng	99
28) Fluoranthene	19.290	202	12394	0.372	ng	100
30) Pyrene	19.652	202	12322	0.372	ng	100
32) Benzo(a)anthracene	21.393	228	10829	0.367	ng	99
33) Chrysene	21.447	228	12256	0.387	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	3318	0.379	ng	99
36) Indeno(1,2,3-cd)pyrene	26.124	276	13502	0.398	ng	98
37) Benzo(b)fluoranthene	23.034	252	12627	0.397	ng	# 95
38) Benzo(k)fluoranthene	23.081	252	12470	0.384	ng	# 95
39) Benzo(a)pyrene	23.633	252	9793	0.384	ng	# 93
40) Dibenzo(a,h)anthracene	26.139	278	10208	0.376	ng	98
41) Benzo(g,h,i)perylene	26.846	276	12010	0.395	ng	99

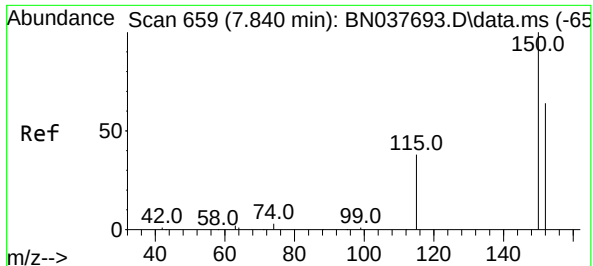
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

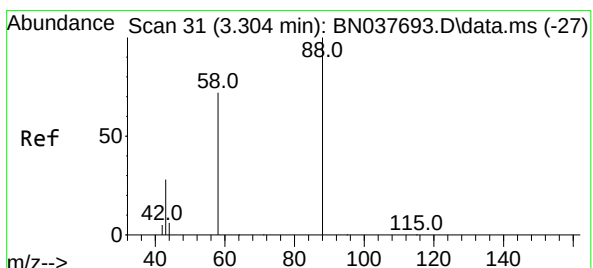
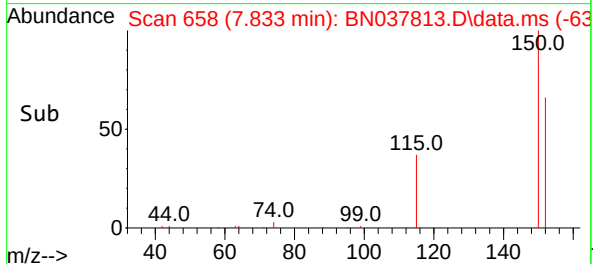
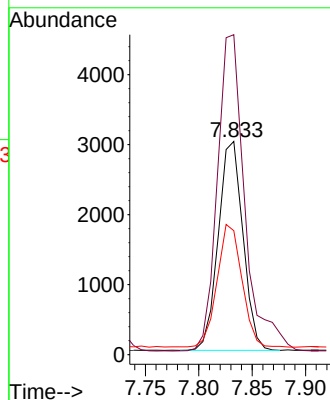
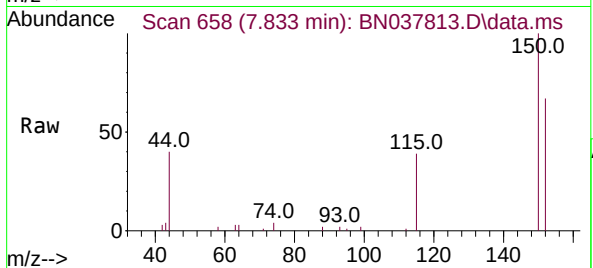




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

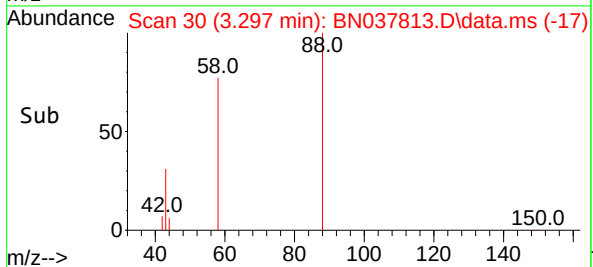
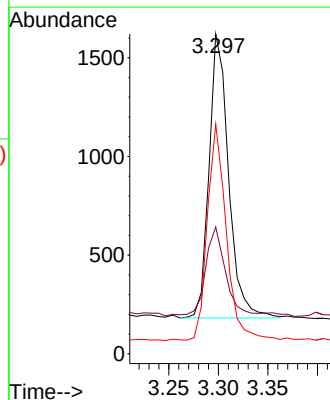
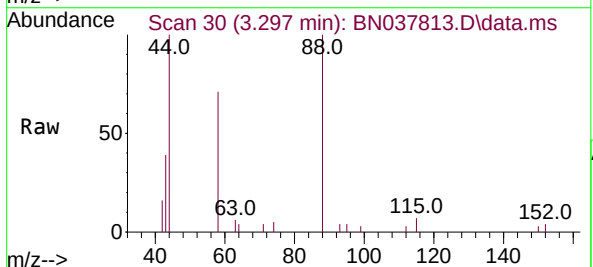
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4812
Ion Ratio Lower Upper
152 100
150 150.0 124.5 186.7
115 58.1 49.2 73.8

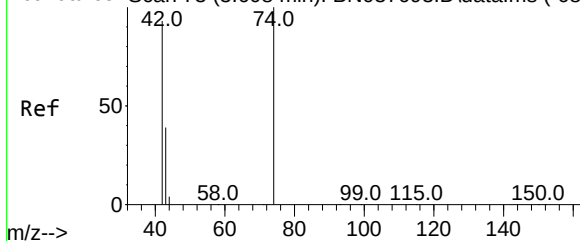


#2
1,4-Dioxane
Concen: 0.394 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

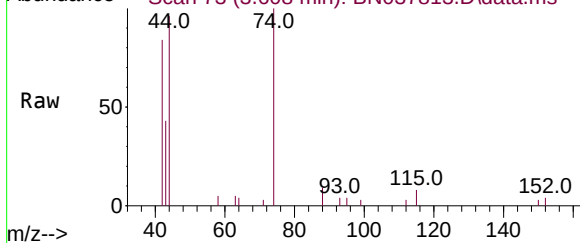
Tgt Ion: 88 Resp: 1973
Ion Ratio Lower Upper
88 100
43 30.5 26.8 40.2
58 74.5 61.9 92.9



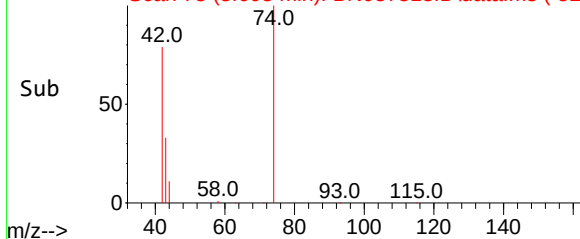
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 73 (3.608 min): BN037813.D\data.ms



Abundance Scan 73 (3.608 min): BN037813.D\data.ms (-52)



#3

n-Nitrosodimethylamine

Concen: 0.354 ng

RT: 3.608 min Scan# 73

Delta R.T. 0.000 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2320

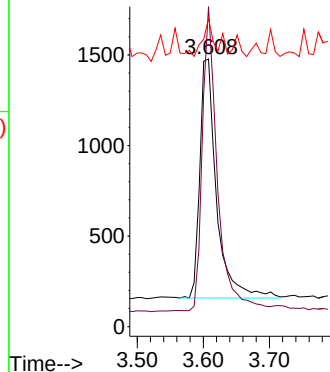
Ion Ratio Lower Upper

42 100

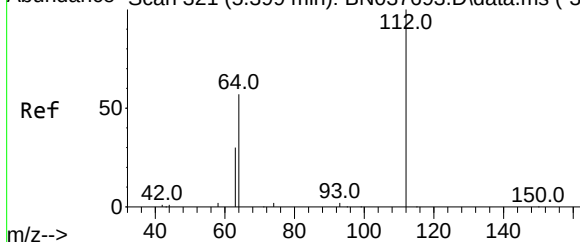
74 116.8 86.0 129.0

44 10.1 8.4 12.6

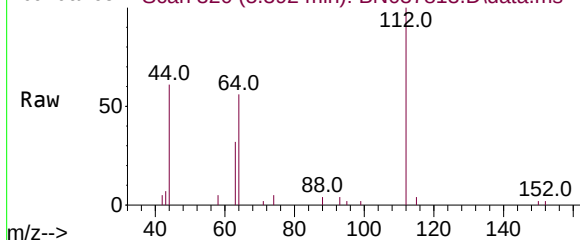
Abundance



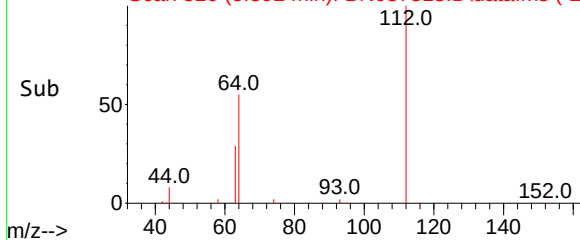
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037813.D\data.ms



Abundance Scan 320 (5.392 min): BN037813.D\data.ms (-29)



#4

2-Fluorophenol

Concen: 0.412 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Tgt Ion: 112 Resp: 4556

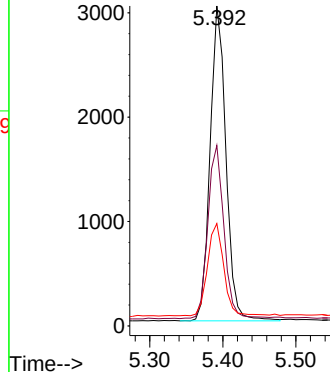
Ion Ratio Lower Upper

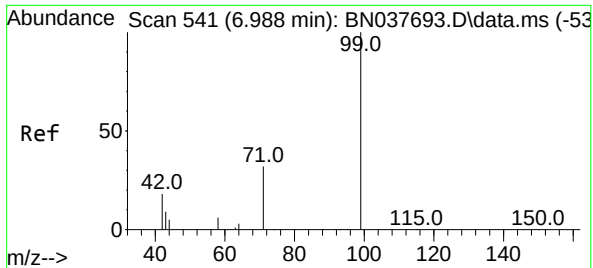
112 100

64 55.9 44.9 67.3

63 30.0 24.7 37.1

Abundance

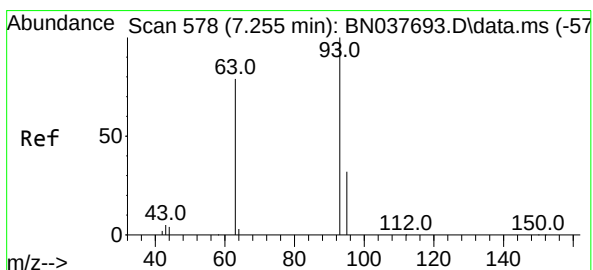
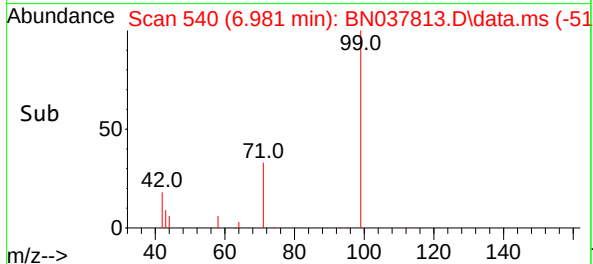
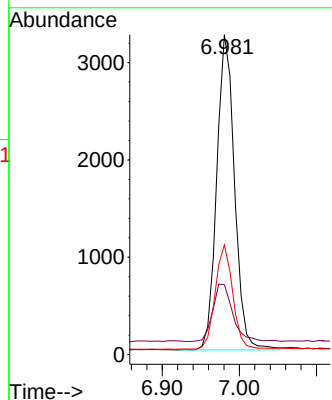
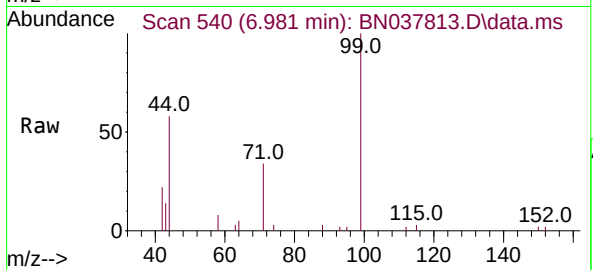




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

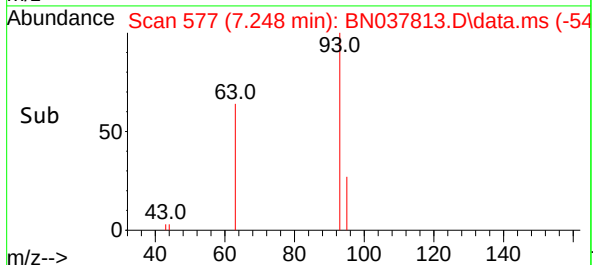
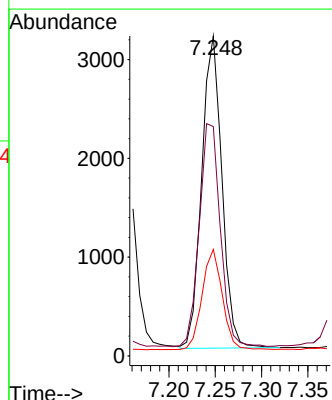
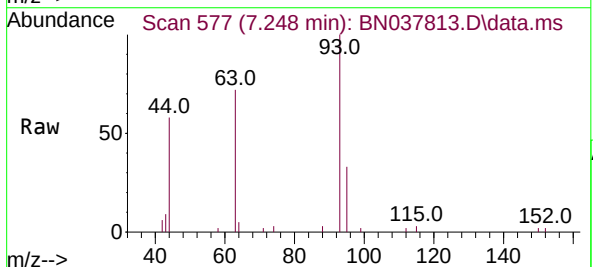
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

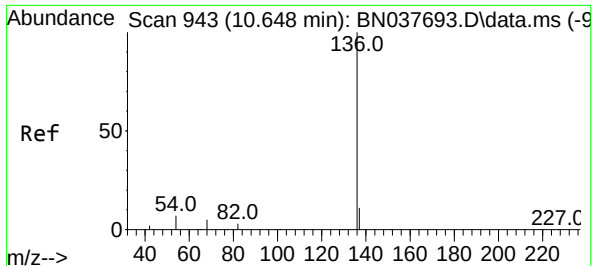
Tgt Ion: 99 Resp: 5192
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 33.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion: 93 Resp: 4798
Ion Ratio Lower Upper
93 100
63 74.7 60.6 90.8
95 32.1 26.0 39.0

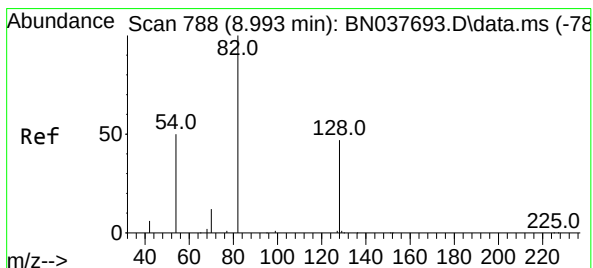
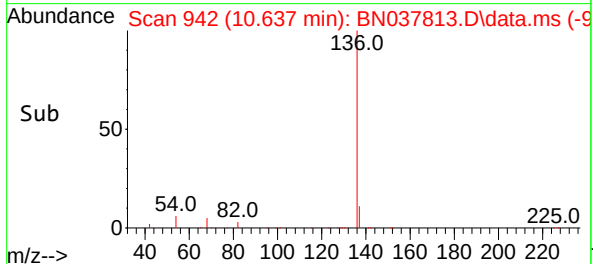
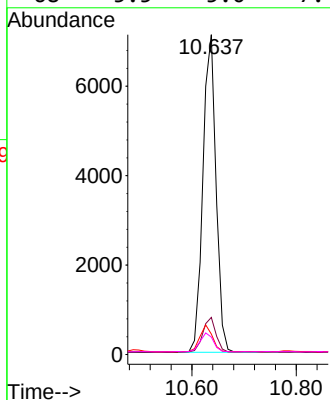
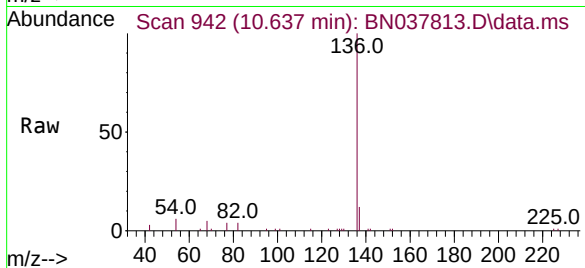




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

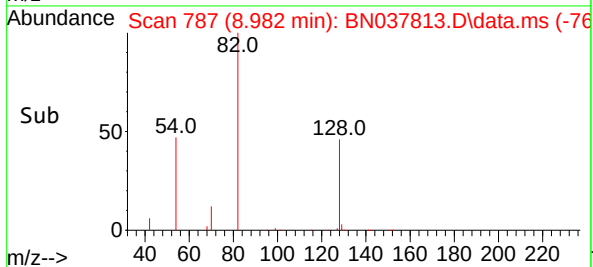
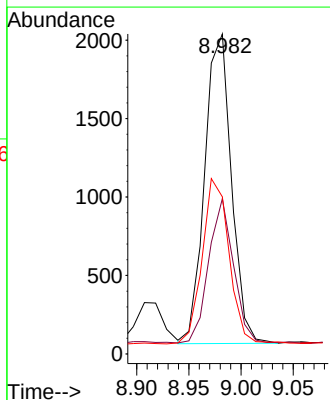
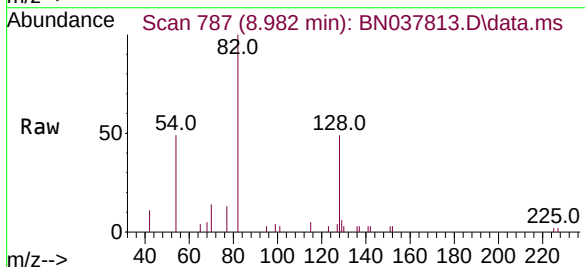
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

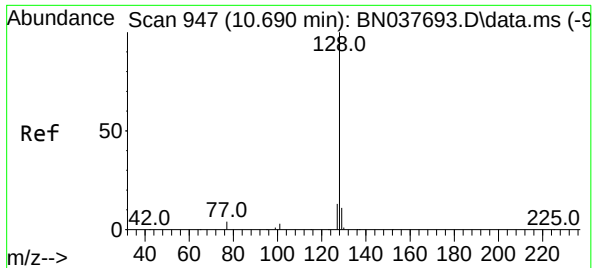
Tgt Ion:	136	Resp:	12410
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.1	13.7
54	6.4	6.3	9.5
68	5.5	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	82	Resp:	3525
Ion	Ratio	Lower	Upper
82	100		
128	48.5	38.3	57.5
54	49.1	41.4	62.2

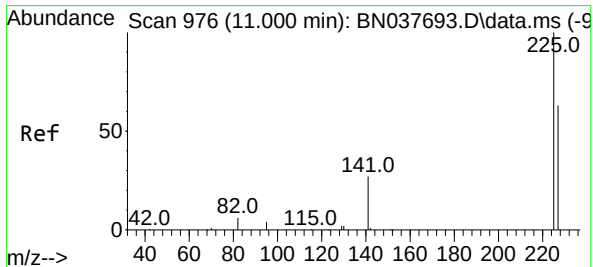
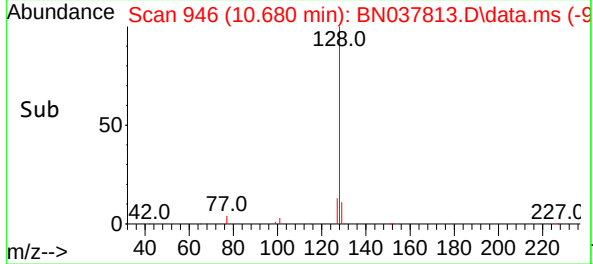
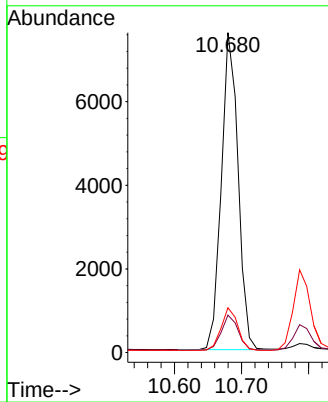
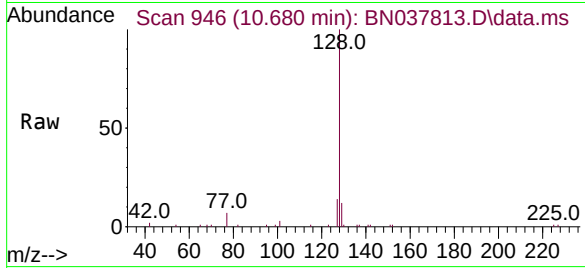




#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

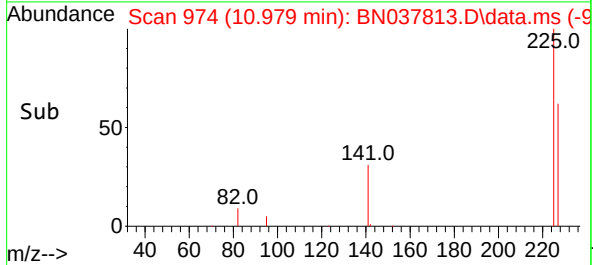
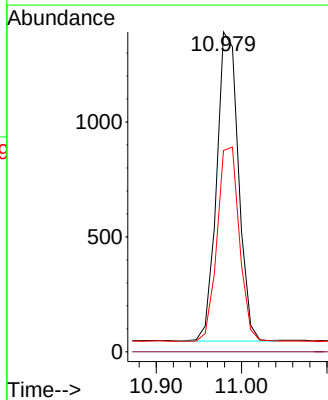
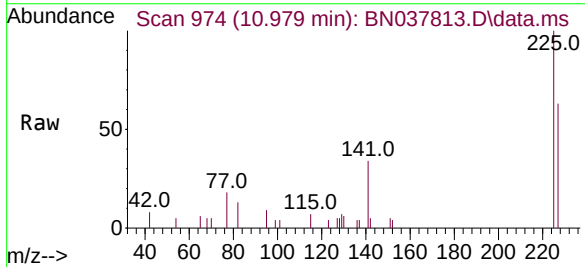
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

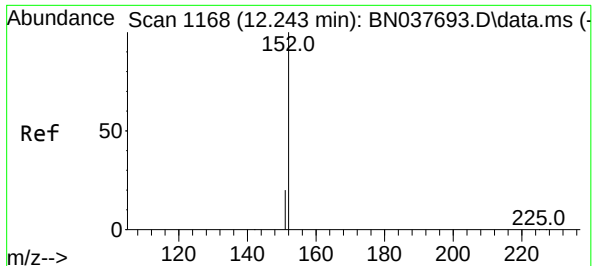
Tgt Ion:	128	Resp:	13094
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	14.0	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	225	Resp:	2398
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.9	76.3

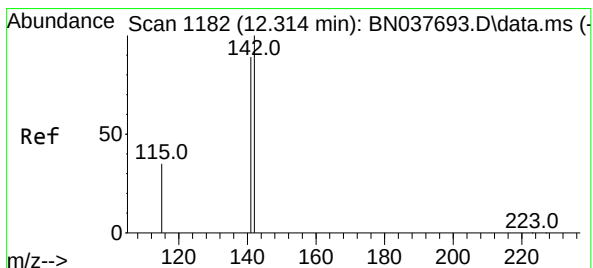
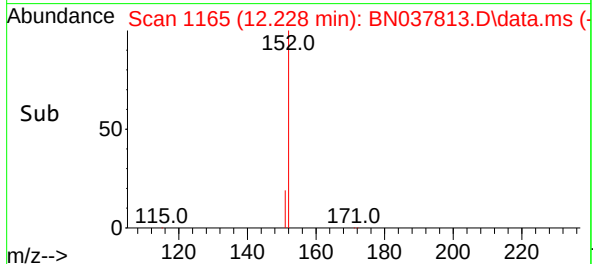
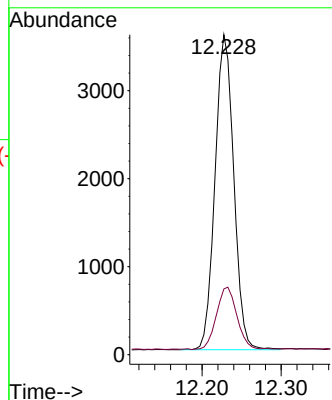
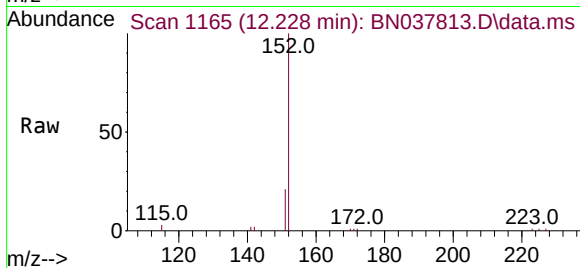




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

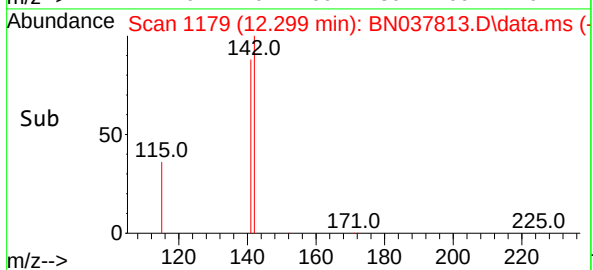
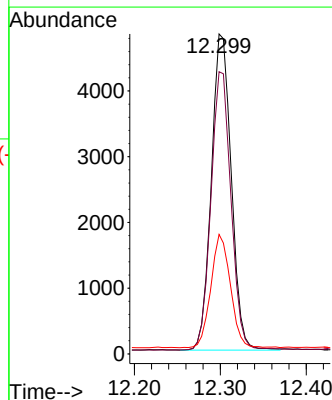
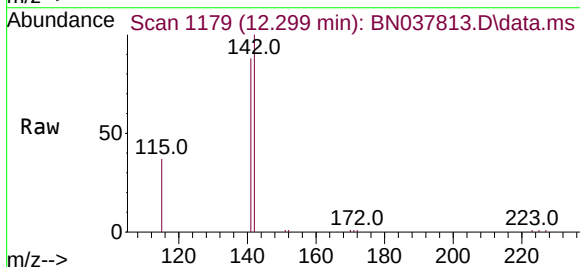
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

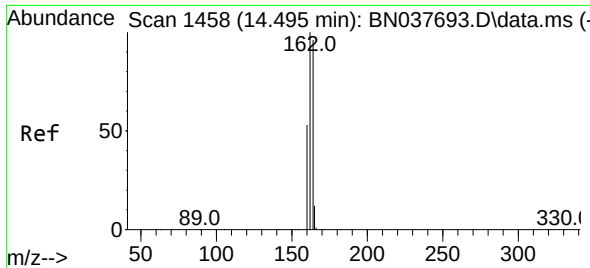
Tgt Ion:152 Resp: 5866
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:142 Resp: 7752
Ion Ratio Lower Upper
142 100
141 88.2 71.6 107.4
115 37.3 28.6 43.0

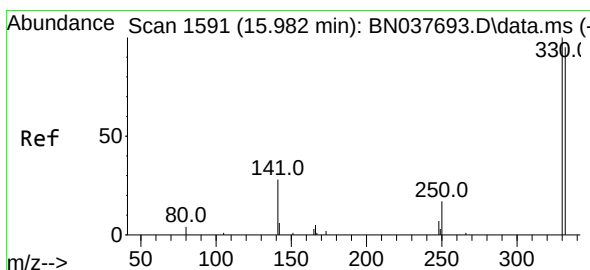
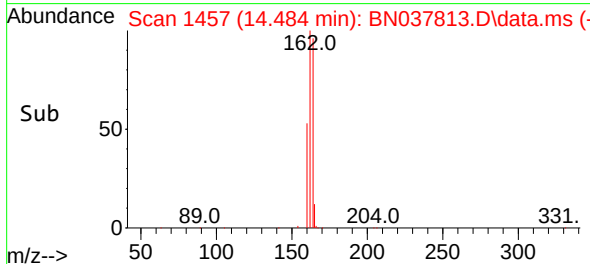
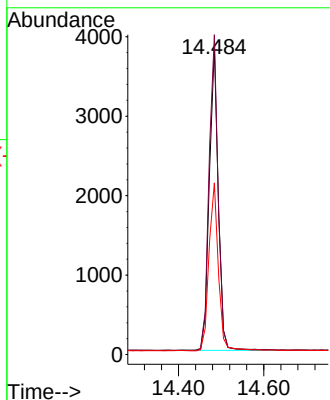
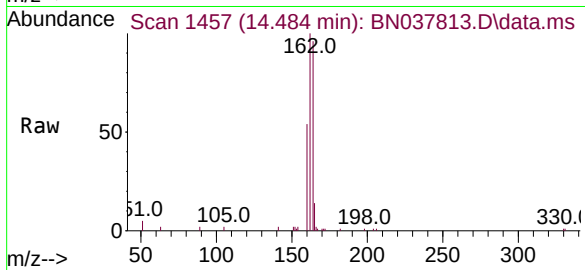




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

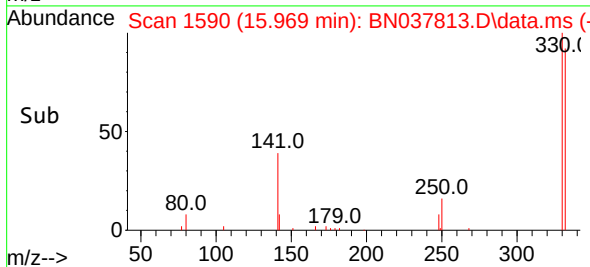
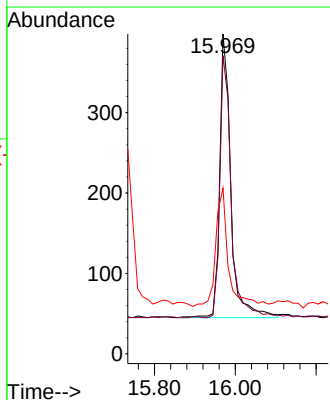
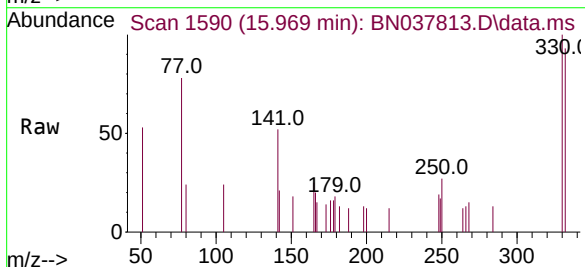
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

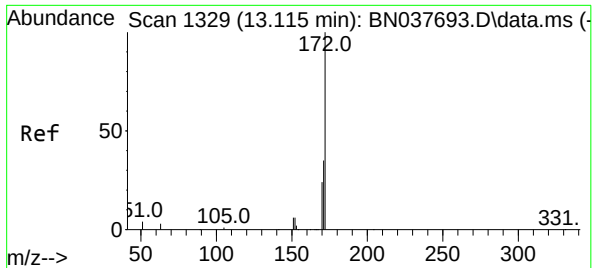
Tgt Ion	164	Resp	5585
Ion Ratio	Lower	Upper	
164	100		
162	104.0	83.1	124.7
160	55.8	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	330	Resp	674
Ion Ratio	Lower	Upper	
330	100		
332	94.2	75.3	112.9
141	47.2	35.0	52.4

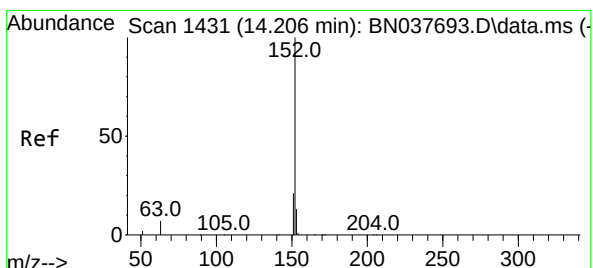
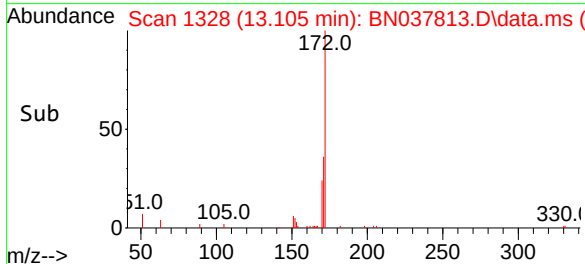
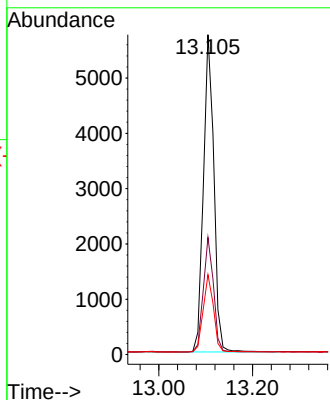
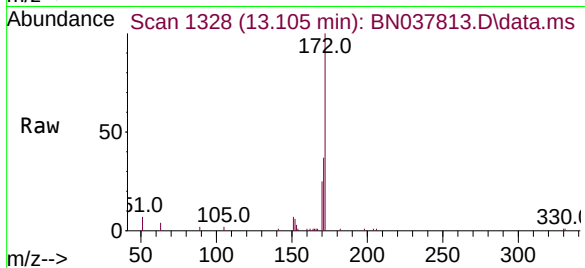




#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

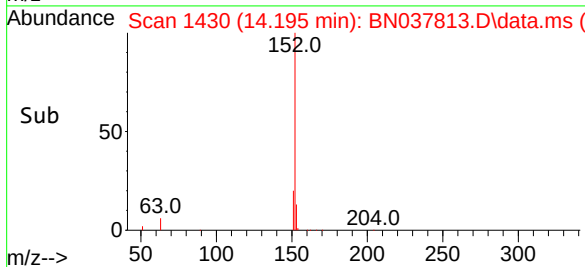
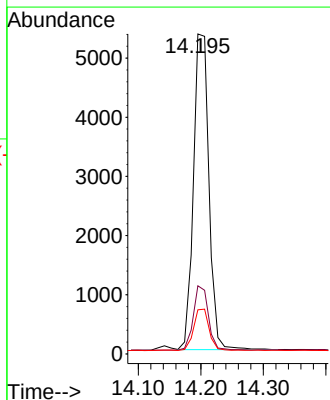
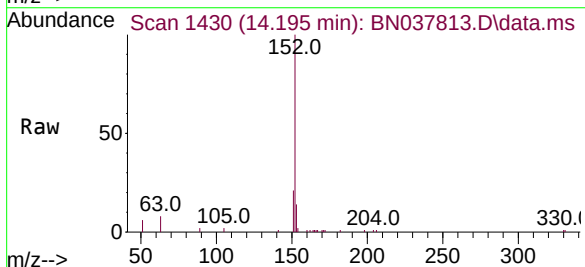
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

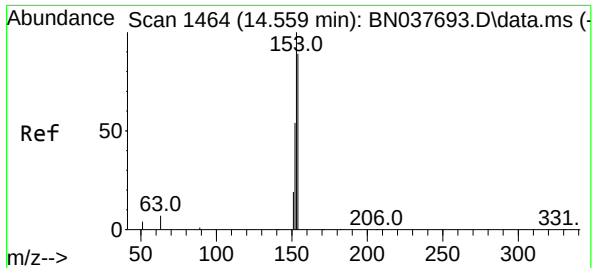
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.4	10.4	15.6

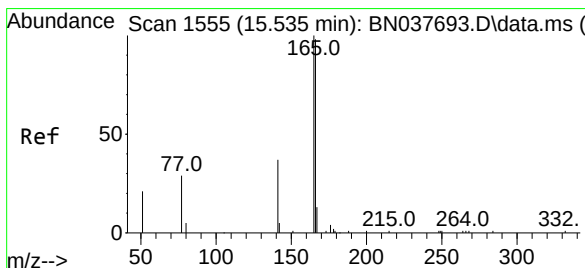
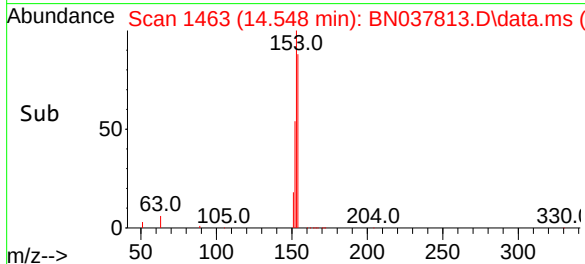
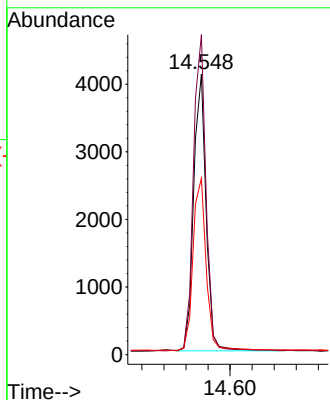
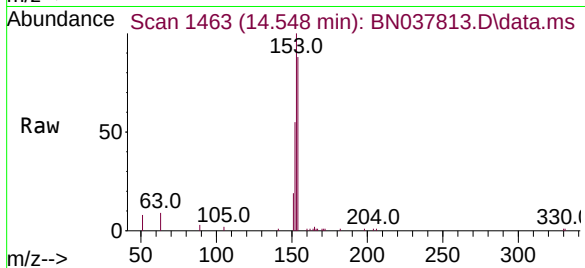




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

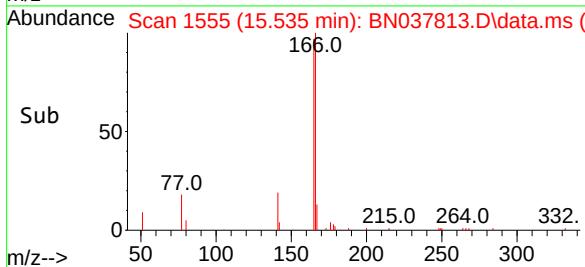
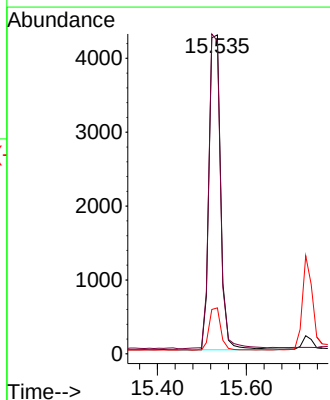
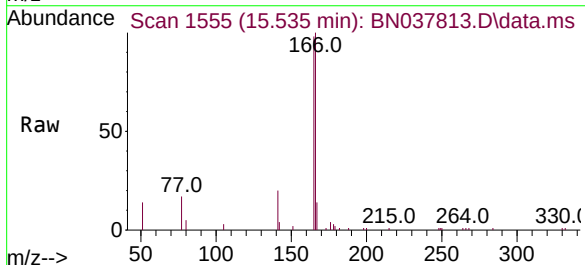
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

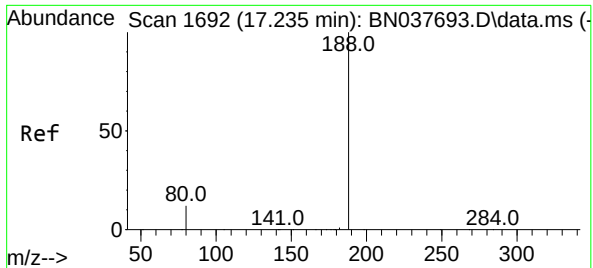
Tgt Ion	154	Resp:	6415
Ion Ratio	Lower	Upper	
154	100		
153	115.7	89.8	134.8
152	65.5	50.2	75.2



#18
Fluorene
Concen: 0.355 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	166	Resp:	7451
Ion Ratio	Lower	Upper	
166	100		
165	99.6	79.6	119.4
167	13.8	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.000 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

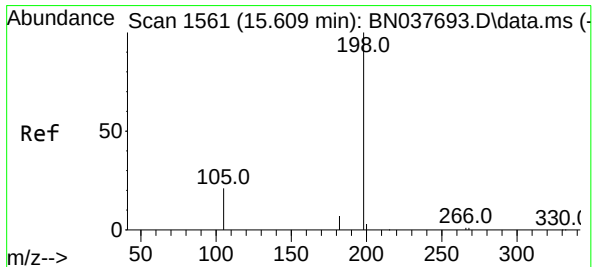
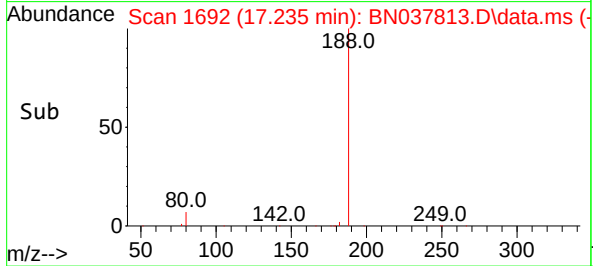
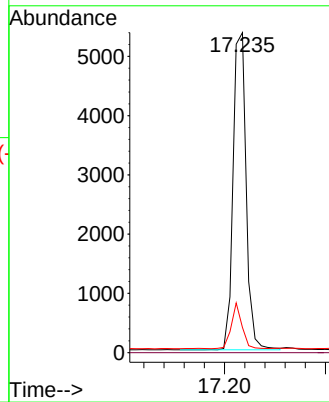
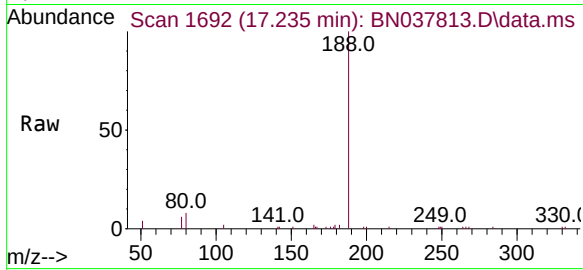
Tgt Ion:188 Resp: 9638

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 10.6 15.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.346 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

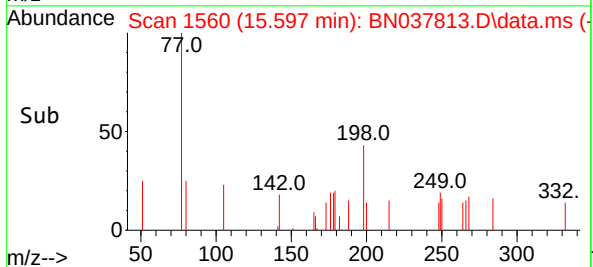
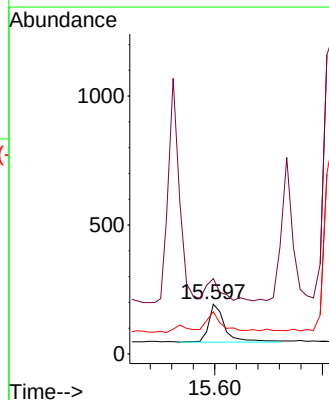
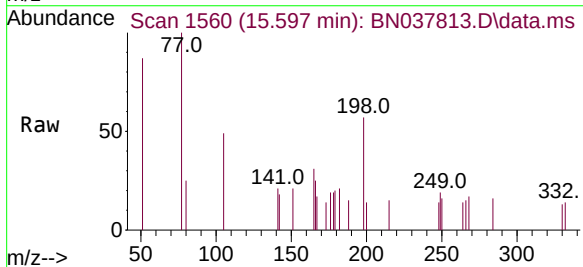
Tgt Ion:198 Resp: 309

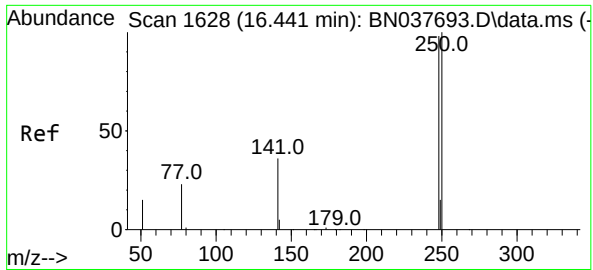
Ion Ratio Lower Upper

198 100

51 151.3 95.1 142.7#

105 85.0 53.8 80.6#

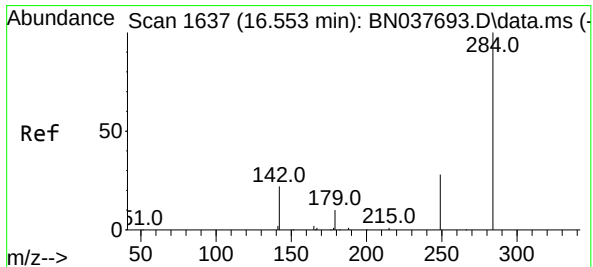
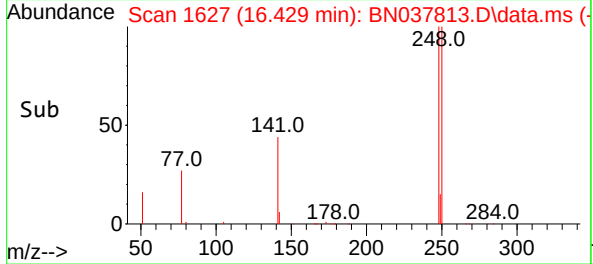
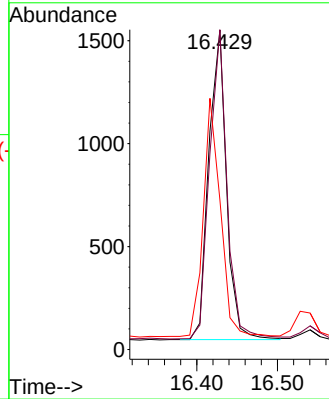
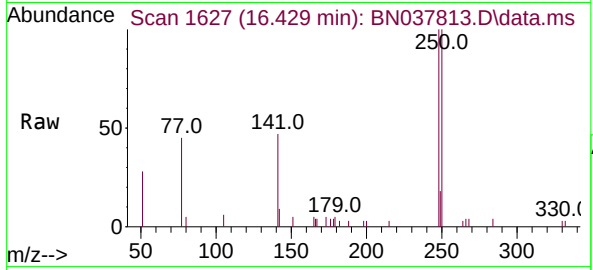




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

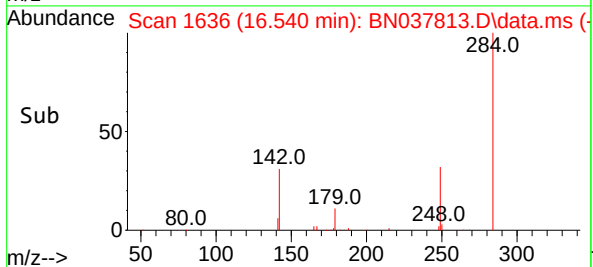
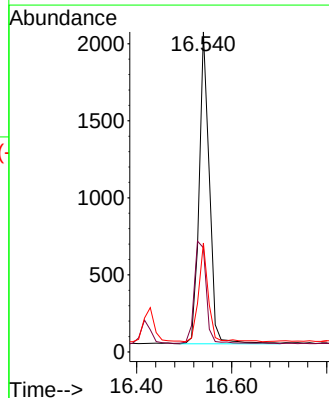
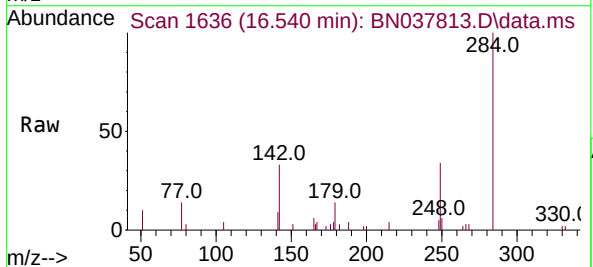
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

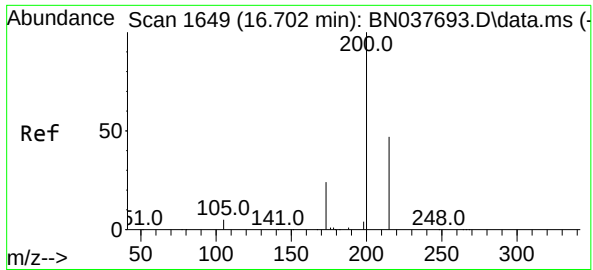
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	81.5	122.3
141	46.9	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	28.8	24.8	37.2

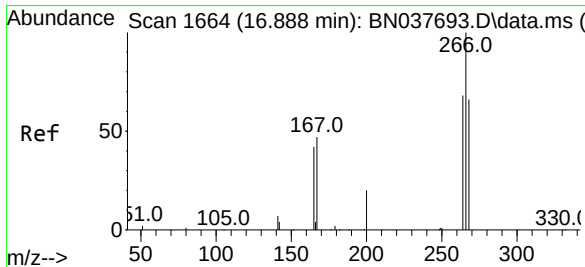
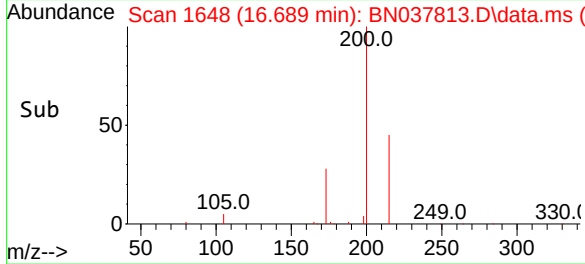
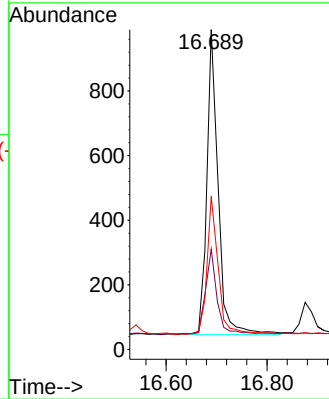
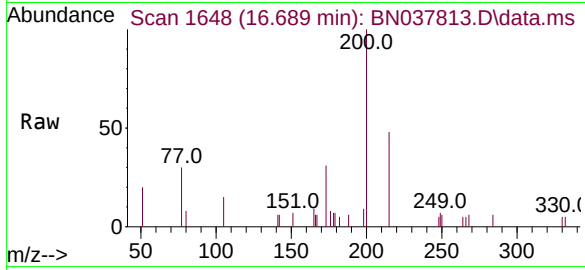




#23
Atrazine
Concen: 0.365 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

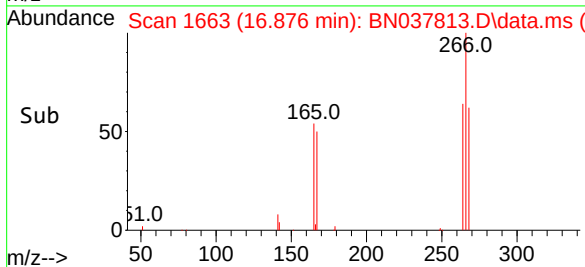
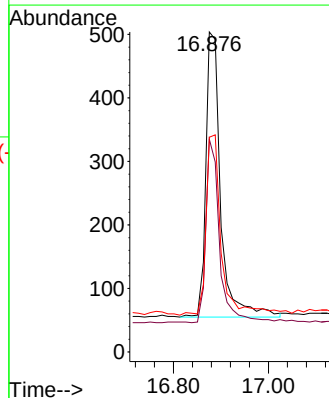
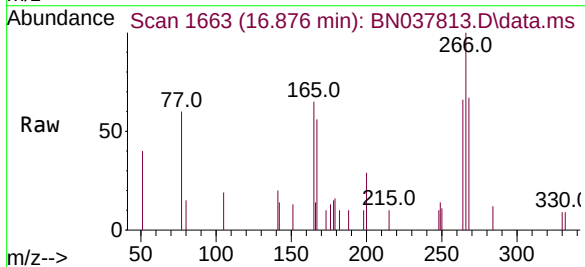
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

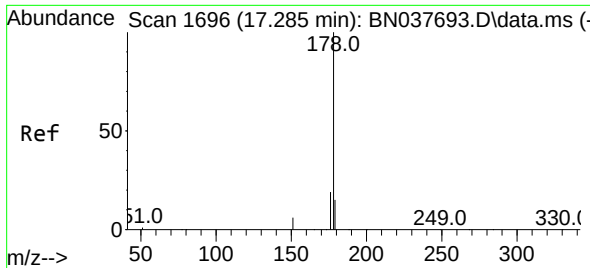
Tgt Ion:	200	Resp:	1460
Ion Ratio	Lower	Upper	
200	100		
173	31.4	21.4	32.2
215	47.9	39.2	58.8



#24
Pentachlorophenol
Concen: 0.462 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	266	Resp:	969
Ion Ratio	Lower	Upper	
266	100		
264	59.3	51.6	77.4
268	65.4	53.2	79.8

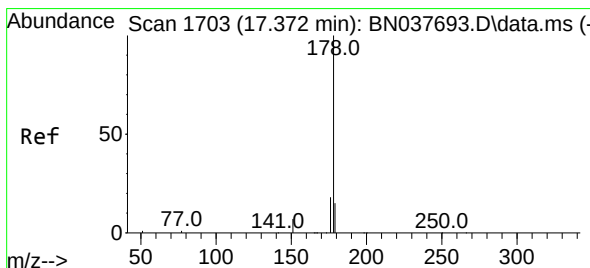
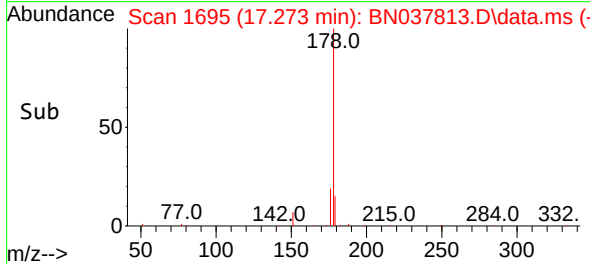
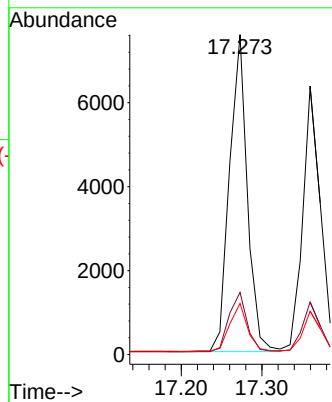
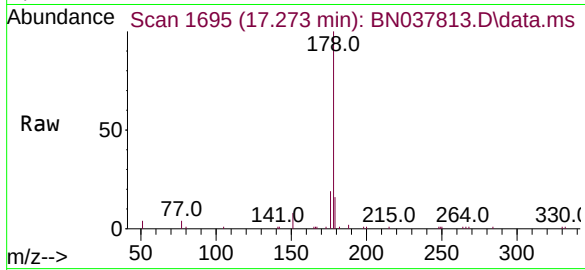




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.273 min Scan# 1696
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

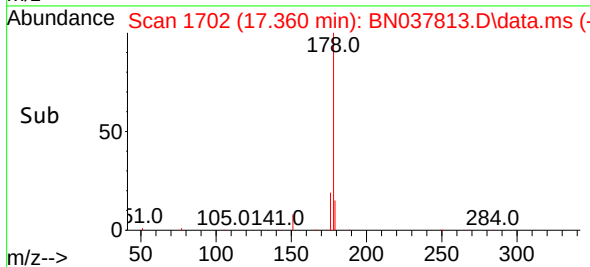
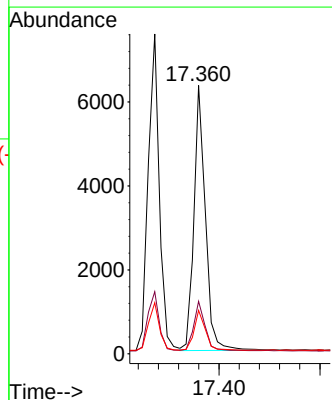
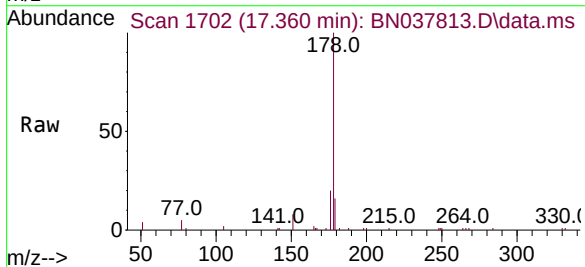
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

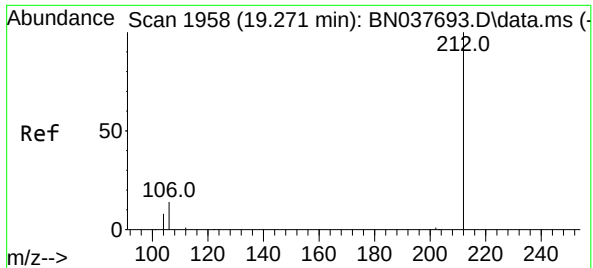
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.3	12.2	18.2



#26
Anthracene
Concen: 0.370 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	14.9	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.357 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

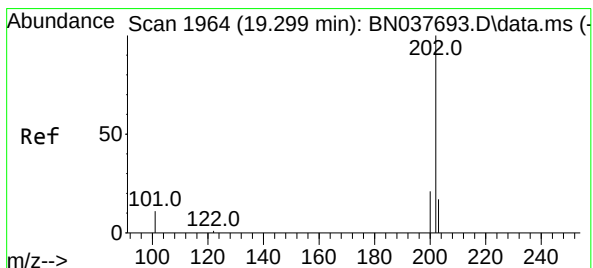
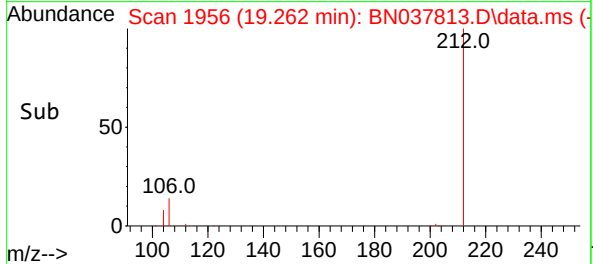
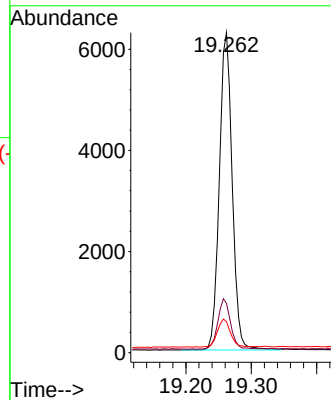
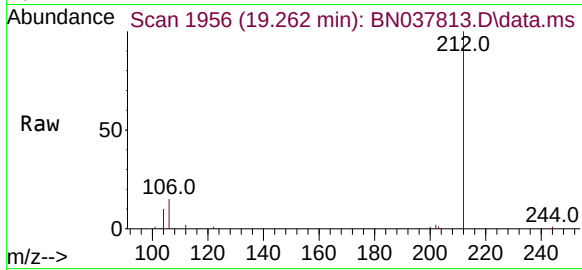
Tgt Ion:212 Resp: 8646

Ion Ratio Lower Upper

212 100

106 15.8 12.2 18.2

104 8.9 6.9 10.3



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.290 min Scan# 1962

Delta R.T. -0.009 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

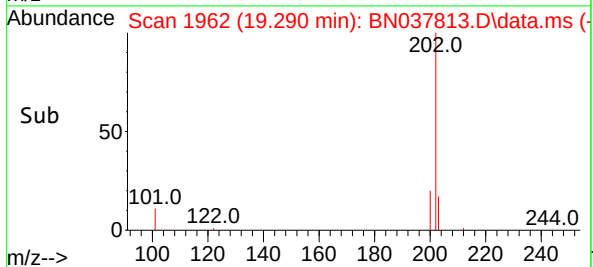
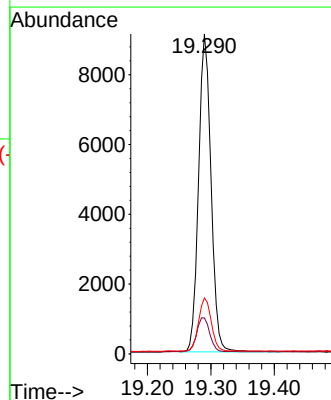
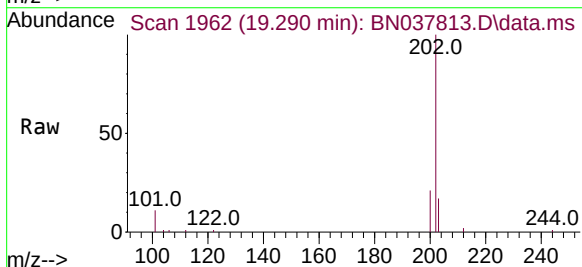
Tgt Ion:202 Resp: 12394

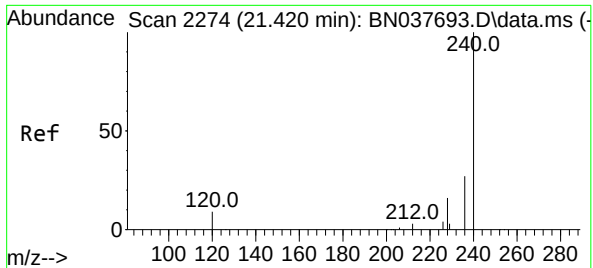
Ion Ratio Lower Upper

202 100

101 11.4 9.3 13.9

203 17.0 13.7 20.5

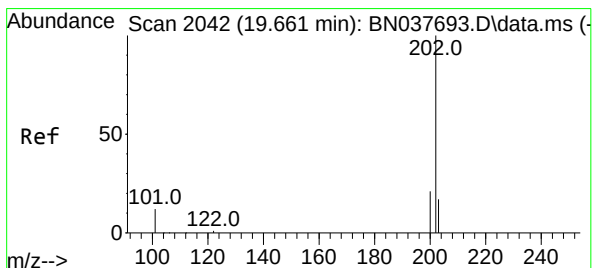
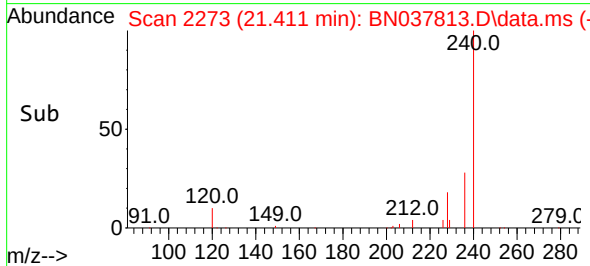
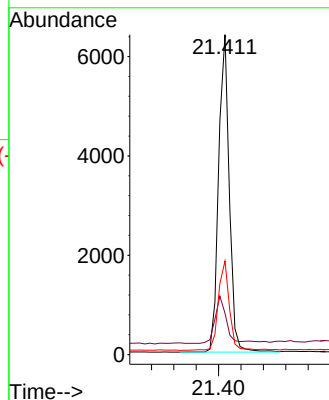
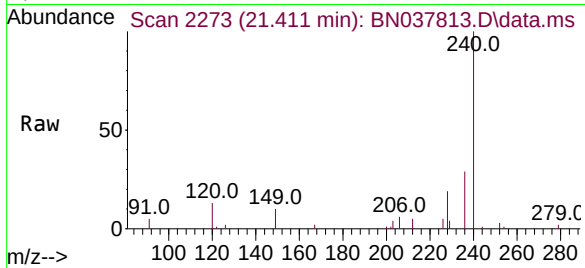




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

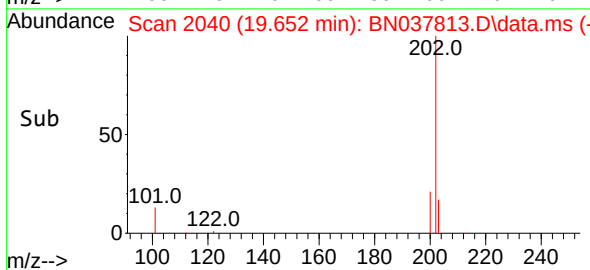
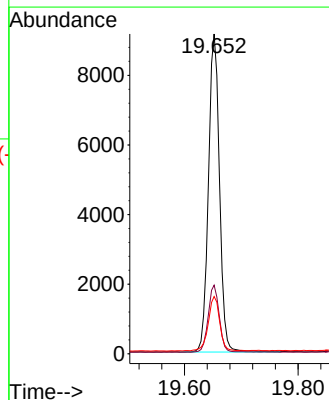
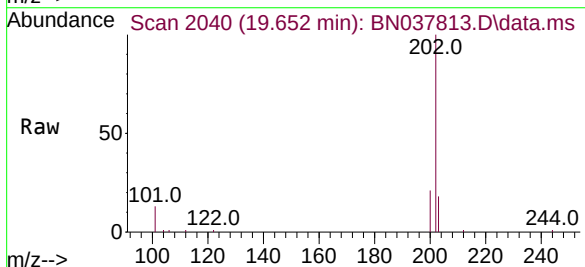
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

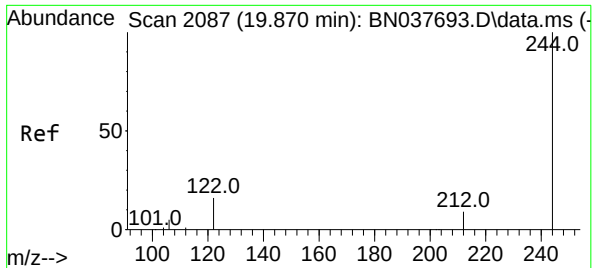
Tgt Ion:	240	Resp:	8466
Ion Ratio	Lower	Upper	
240	100		
120	12.9	9.2	13.8
236	29.3	22.6	33.8



#30
Pyrene
Concen: 0.372 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:	202	Resp:	12322
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.8	25.2
203	17.6	14.3	21.5

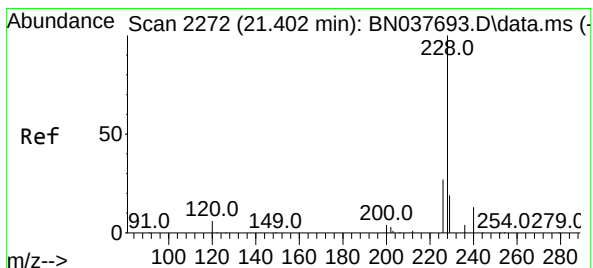
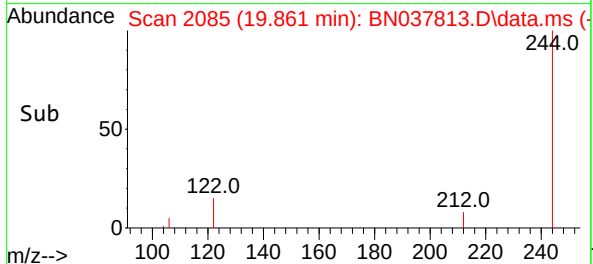
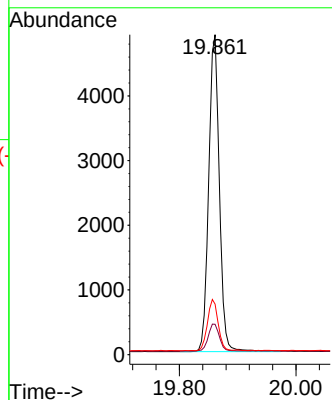
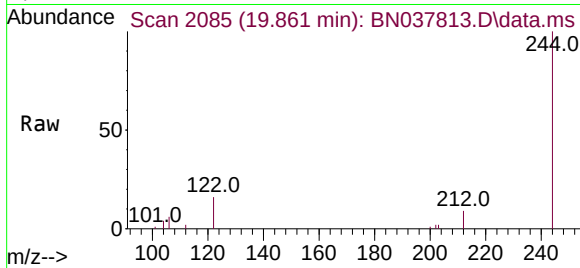




#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

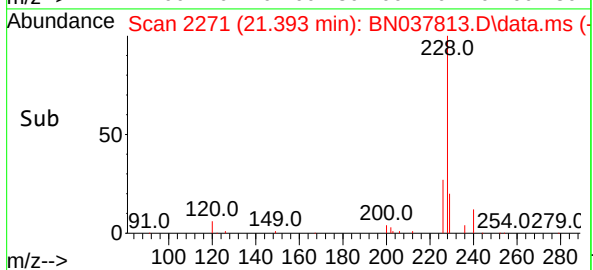
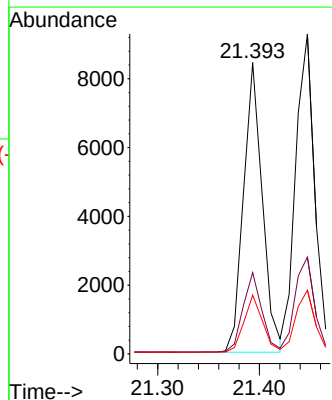
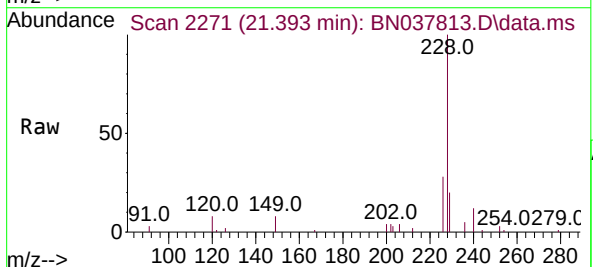
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

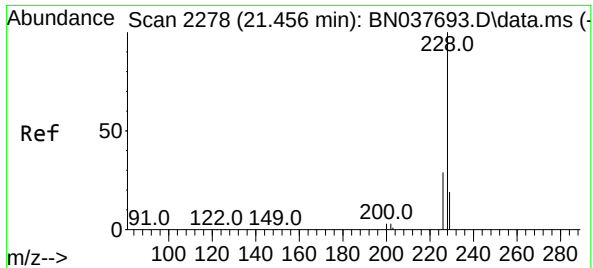
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.5	11.3
122	15.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.2	15.8	23.6

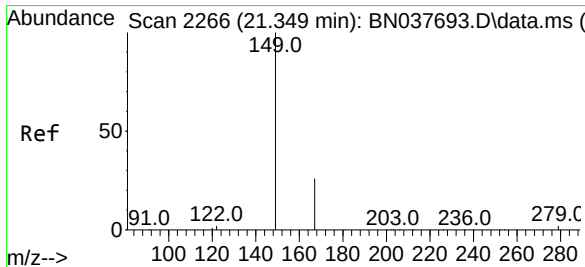
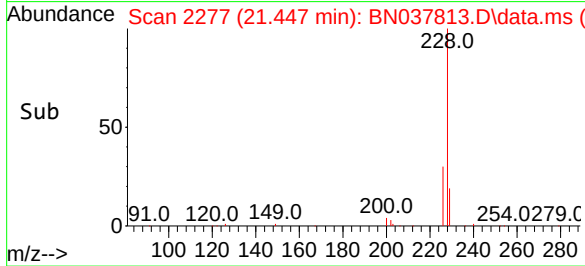
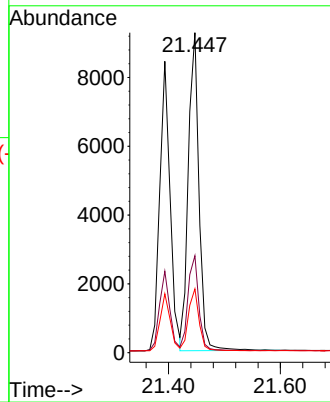
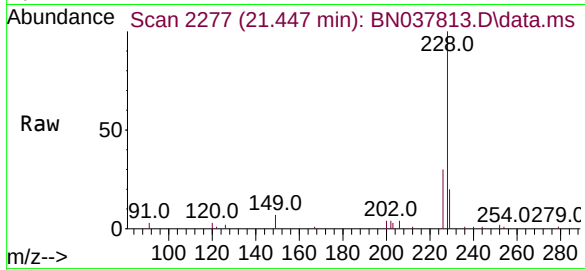




#33
Chrysene
Concen: 0.387 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

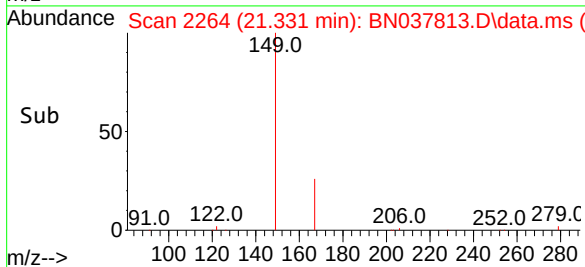
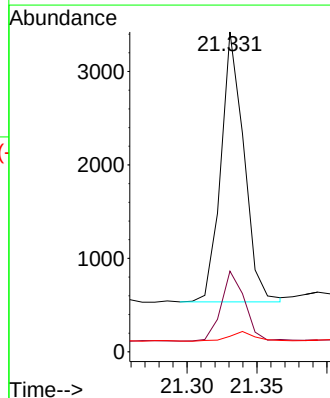
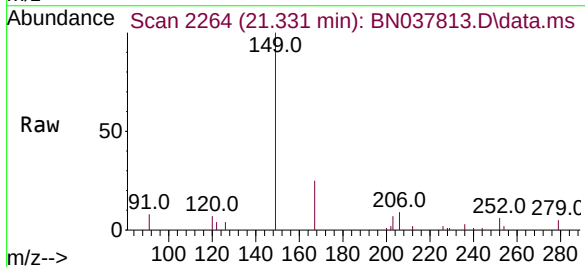
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

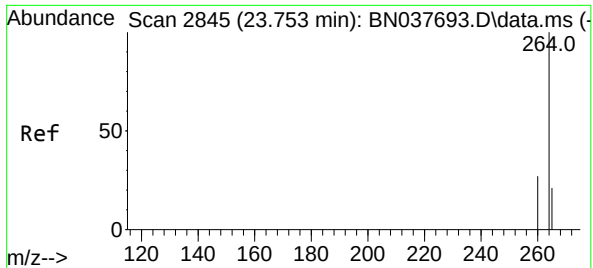
Tgt Ion:	228	Resp:	12256
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.5	35.3
229	19.9	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

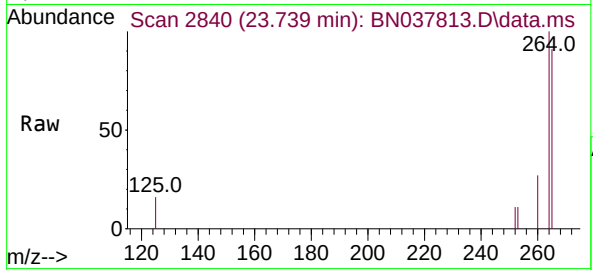
Tgt Ion:	149	Resp:	3318
Ion Ratio	Lower	Upper	
149	100		
167	26.8	20.8	31.2
279	4.2	3.3	4.9



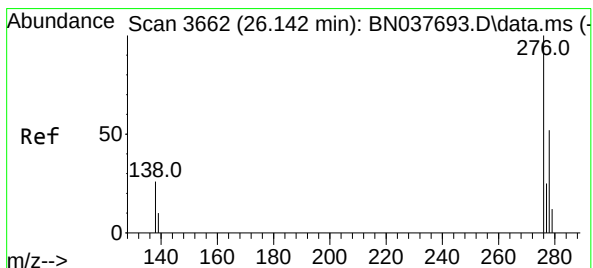
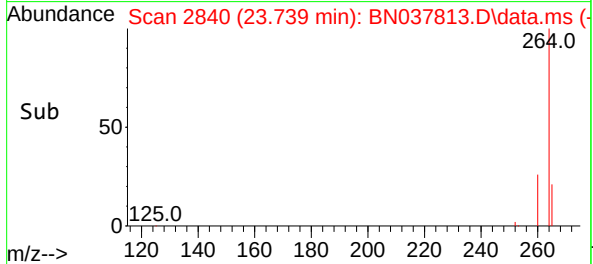
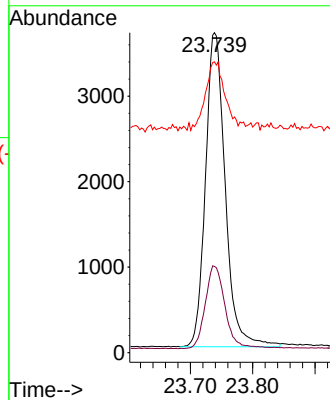


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.739 min Scan# 2845
Delta R.T. -0.015 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

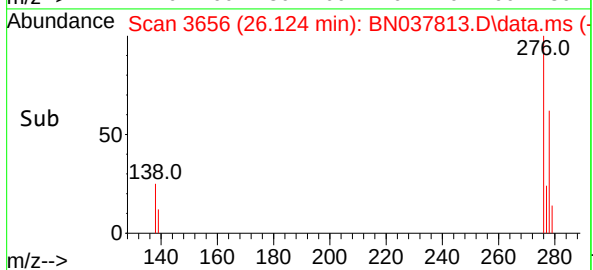
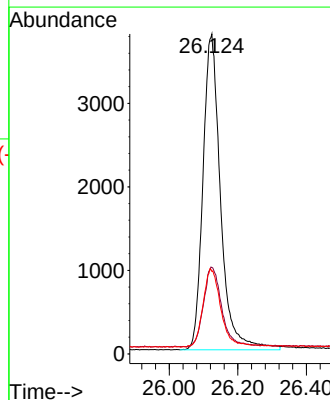
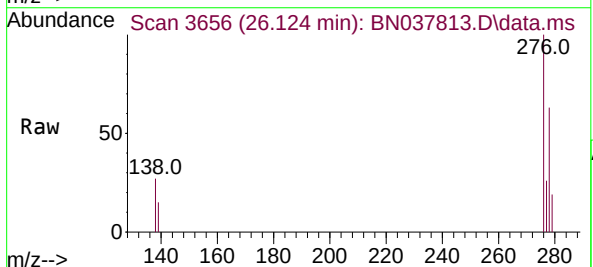


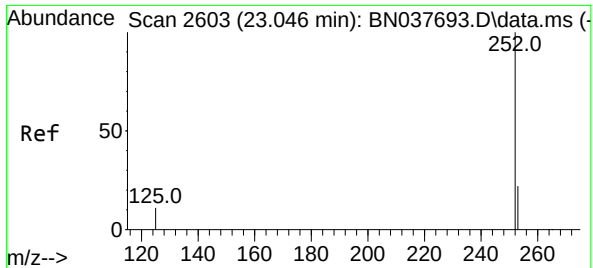
Tgt Ion:264 Resp: 8084
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 90.9 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 26.124 min Scan# 3656
Delta R.T. -0.018 min
Lab File: BN037813.D
Acq: 19 Sep 2025 14:19

Tgt Ion:276 Resp: 13502
Ion Ratio Lower Upper
276 100
138 26.0 21.9 32.9
277 24.9 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.397 ng

RT: 23.034 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

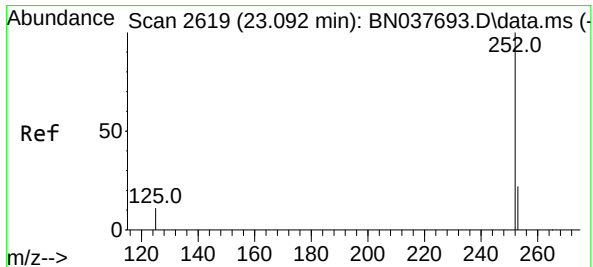
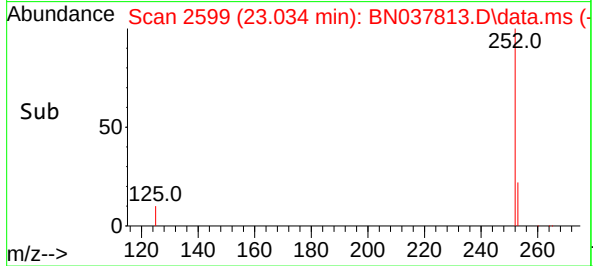
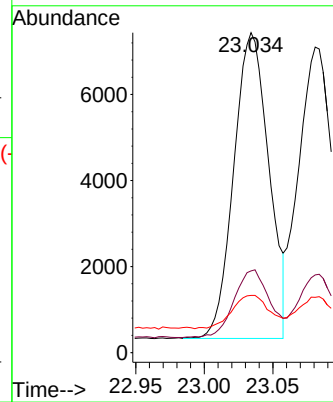
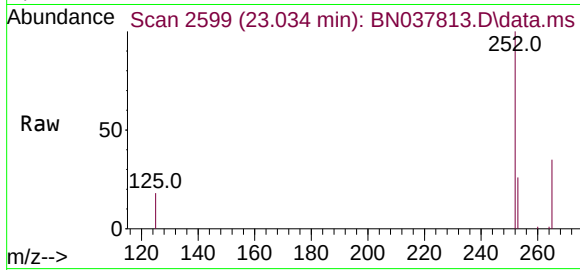
Tgt Ion:252 Resp: 12627

Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.2

125 17.9 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.384 ng

RT: 23.081 min Scan# 2615

Delta R.T. -0.012 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

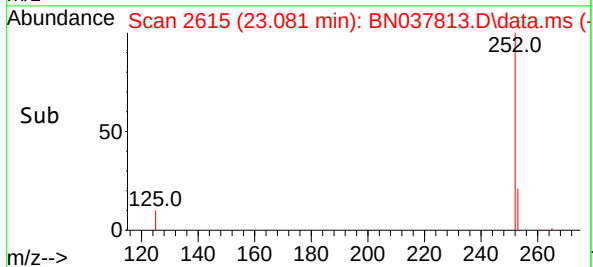
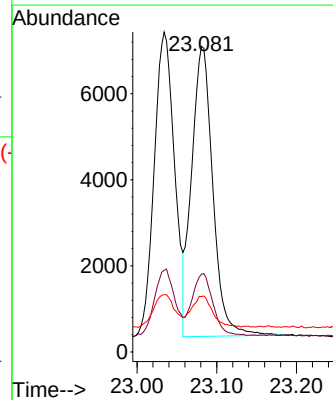
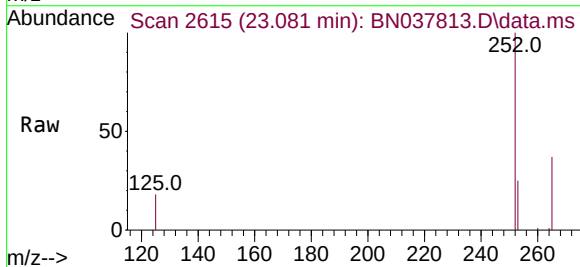
Tgt Ion:252 Resp: 12470

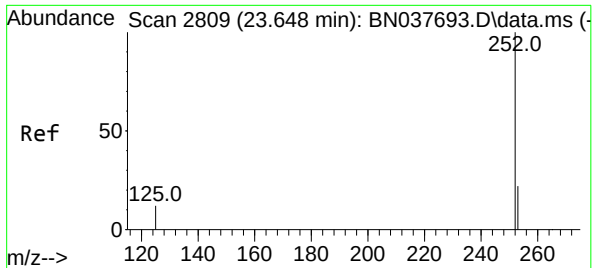
Ion Ratio Lower Upper

252 100

253 25.4 19.4 29.0

125 18.1 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

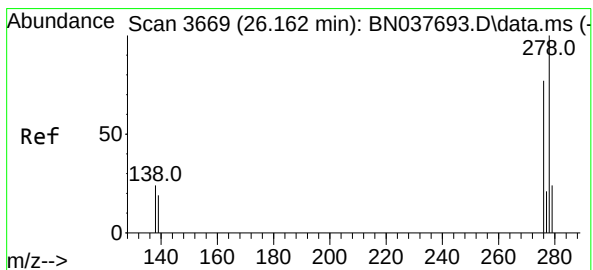
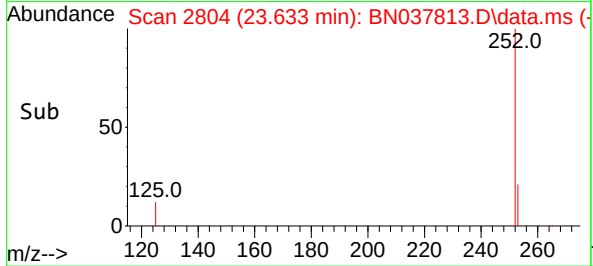
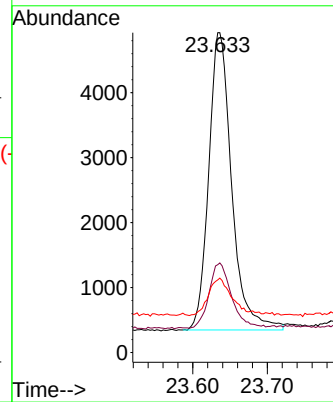
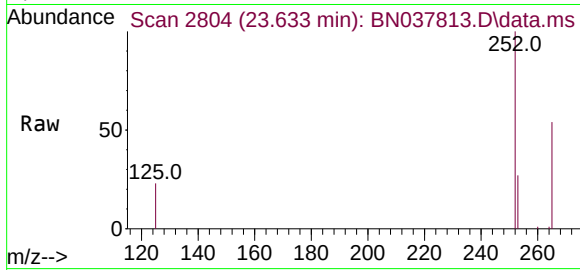
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	9793
Ion Ratio	Lower	Upper
252	100	
253	27.5	20.8 31.2
125	22.7	13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

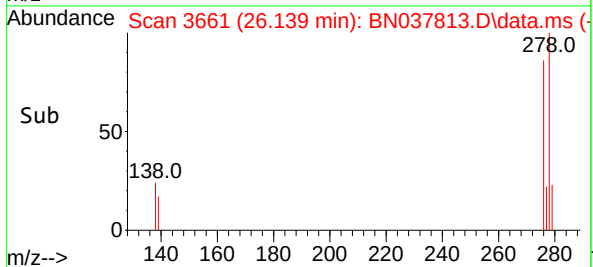
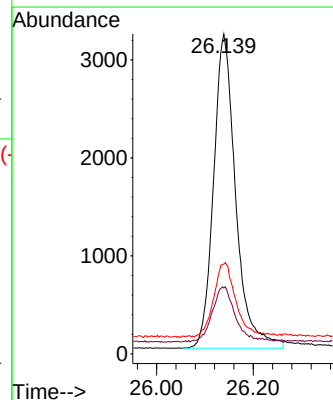
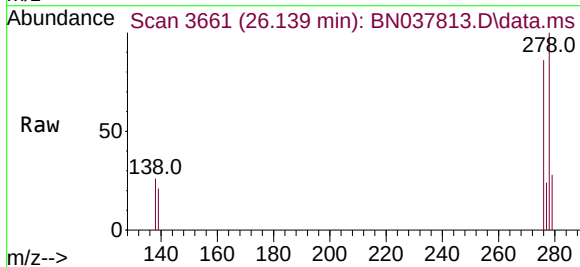
RT: 26.139 min Scan# 3661

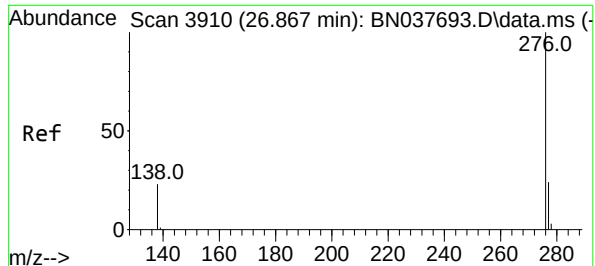
Delta R.T. -0.023 min

Lab File: BN037813.D

Acq: 19 Sep 2025 14:19

Tgt Ion:278	Resp:	10208
Ion Ratio	Lower	Upper
278	100	
139	20.6	17.8 26.6
279	28.1	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.846 min Scan# 39

Delta R.T. -0.020 min

Lab File: BN037813.D

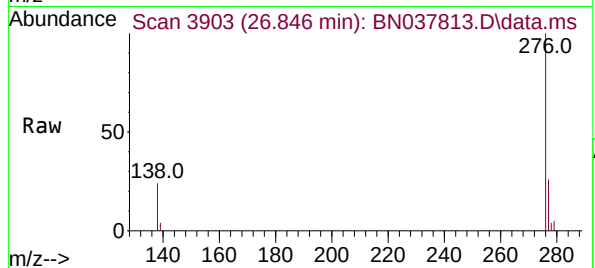
Acq: 19 Sep 2025 14:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



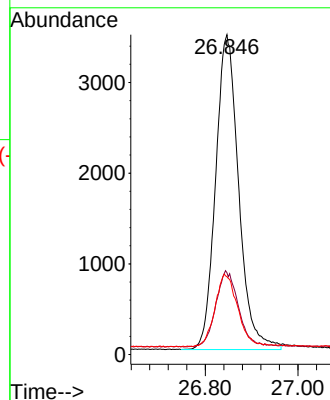
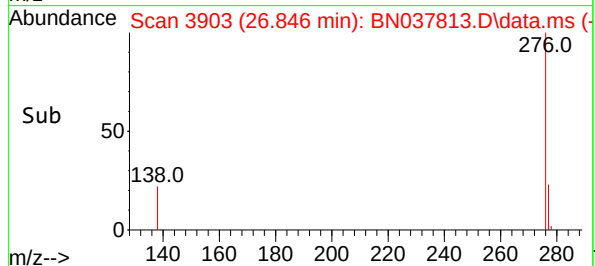
Tgt Ion:276 Resp: 12010

Ion Ratio Lower Upper

276 100

277 25.6 20.6 31.0

138 24.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	96	0.00
2	1,4-Dioxane	0.417	0.410	1.7	94	0.00
3	n-Nitrosodimethylamine	0.544	0.482	11.4	82	0.00
4 S	2-Fluorophenol	0.918	0.947	-3.2	102	0.00
5 S	Phenol-d6	1.191	1.079	9.4	90	0.00
6	bis(2-Chloroethyl)ether	1.064	0.997	6.3	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.293	0.284	3.1	94	-0.01
9	Naphthalene	1.093	1.055	3.5	92	-0.01
10	Hexachlorobutadiene	0.198	0.193	2.5	92	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.473	10.8	89	-0.02
12	2-Methylnaphthalene	0.676	0.625	7.5	89	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.121	-16.3	108	-0.01
15 S	2-Fluorobiphenyl	1.673	1.589	5.0	87	-0.01
16	Acenaphthylene	1.834	1.643	10.4	83	-0.01
17	Acenaphthene	1.240	1.149	7.3	85	-0.01
18	Fluorene	1.502	1.334	11.2	83	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.032	13.5	83	-0.01
21	4-Bromophenyl-phenylether	0.261	0.238	8.8	81	-0.01
22	Hexachlorobenzene	0.300	0.312	-4.0	91	-0.01
23	Atrazine	0.166	0.151	9.0	86	-0.01
24	Pentachlorophenol	0.087	0.101	-16.1	115	-0.01
25	Phenanthrene	1.259	1.201	4.6	84	-0.01
26	Anthracene	1.116	1.032	7.5	83	-0.01
27 SURR	Fluoranthene-d10	1.004	0.897	10.7	82	0.00
28	Fluoranthene	1.381	1.286	6.9	84	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.566	1.455	7.1	84	0.00
31 S	Terphenyl-d14	0.812	0.730	10.1	82	0.00
32	Benzo(a)anthracene	1.395	1.279	8.3	86	0.00
33	Chrysene	1.496	1.448	3.2	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.392	5.3	94	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.670	0.7	98	-0.02
37	Benzo(b)fluoranthene	1.575	1.562	0.8	91	-0.01
38	Benzo(k)fluoranthene	1.606	1.543	3.9	91	-0.01
39 C	Benzo(a)pyrene	1.261	1.211	4.0	91	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.263	5.9	94	-0.02
41	Benzo(g,h,i)perylene	1.506	1.486	1.3	92	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037813.D
Acq On : 19 Sep 2025 14:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 15:09:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	96	0.00
2	1,4-Dioxane	0.400	0.394	1.5	94	0.00
3	n-Nitrosodimethylamine	0.400	0.354	11.5	82	0.00
4 S	2-Fluorophenol	0.400	0.412	-3.0	102	0.00
5 S	Phenol-d6	0.400	0.362	9.5	90	0.00
6	bis(2-Chloroethyl)ether	0.400	0.375	6.3	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.400	0.388	3.0	94	-0.01
9	Naphthalene	0.400	0.386	3.5	92	-0.01
10	Hexachlorobutadiene	0.400	0.391	2.3	92	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	89	-0.02
12	2-Methylnaphthalene	0.400	0.369	7.8	89	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.463	-15.8	108	-0.01
15 S	2-Fluorobiphenyl	0.400	0.380	5.0	87	-0.01
16	Acenaphthylene	0.400	0.358	10.5	83	-0.01
17	Acenaphthene	0.400	0.370	7.5	85	-0.01
18	Fluorene	0.400	0.355	11.3	83	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.346	13.5	83	-0.01
21	4-Bromophenyl-phenylether	0.400	0.365	8.8	81	-0.01
22	Hexachlorobenzene	0.400	0.416	-4.0	91	-0.01
23	Atrazine	0.400	0.365	8.8	86	-0.01
24	Pentachlorophenol	0.400	0.462	-15.5	115	-0.01
25	Phenanthrene	0.400	0.381	4.8	84	-0.01
26	Anthracene	0.400	0.370	7.5	83	-0.01
27 SURR	Fluoranthene-d10	0.400	0.357	10.8	82	0.00
28	Fluoranthene	0.400	0.372	7.0	84	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.372	7.0	84	0.00
31 S	Terphenyl-d14	0.400	0.360	10.0	82	0.00
32	Benzo(a)anthracene	0.400	0.367	8.3	86	0.00
33	Chrysene	0.400	0.387	3.3	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.379	5.3	94	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	90	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	98	-0.02
37	Benzo(b)fluoranthene	0.400	0.397	0.8	91	-0.01
38	Benzo(k)fluoranthene	0.400	0.384	4.0	91	-0.01
39 C	Benzo(a)pyrene	0.400	0.384	4.0	91	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	94	-0.02
41	Benzo(g,h,i)perylene	0.400	0.395	1.3	92	-0.02

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 00:39
 Lab File ID: BN037830.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.471		-11.1	50.0
Fluoranthene-d10	1.004	0.971		-3.3	50.0
2-Fluorophenol	0.918	0.830		-9.6	50.0
Phenol-d6	1.191	1.088		-8.6	50.0
Nitrobenzene-d5	0.293	0.282		-3.8	50.0
2-Fluorobiphenyl	1.673	1.621		-3.1	50.0
2,4,6-Tribromophenol	0.104	0.105		1.0	50.0
Terphenyl-d14	0.812	0.741		-8.7	50.0
1,4-Dioxane	0.417	0.395		-5.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037830.D
 Acq On : 20 Sep 2025 00:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

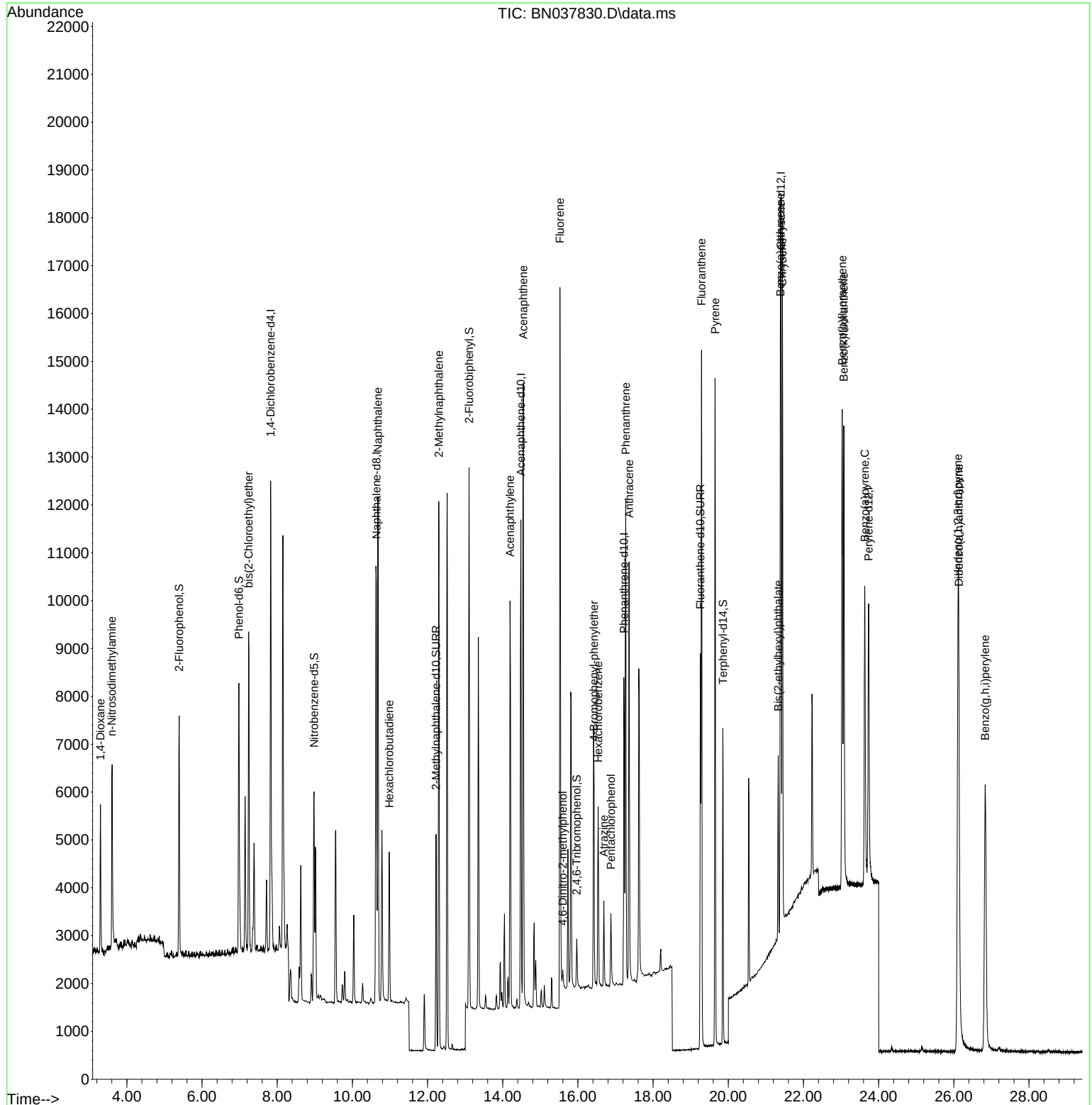
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	4763	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	12882	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	5757	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	9339	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	8425	0.400	ng	#-0.02
35) Perylene-d12	23.733	264	8348	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	3952	0.361	ng	0.00
5) Phenol-d6	6.981	99	5181	0.365	ng	0.00
8) Nitrobenzene-d5	8.982	82	3636	0.386	ng	-0.01
11) 2-Methylnaphthalene-d10	12.228	152	6061	0.355	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	607	0.404	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	9332	0.388	ng	-0.01
27) Fluoranthene-d10	19.257	212	9064	0.387	ng	-0.01
31) Terphenyl-d14	19.857	244	6240	0.365	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.297	88	1880	0.379	ng	98
3) n-Nitrosodimethylamine	3.601	42	2585	0.399	ng	97
6) bis(2-Chloroethyl)ether	7.241	93	4760	0.376	ng	98
9) Naphthalene	10.680	128	13409	0.381	ng	100
10) Hexachlorobutadiene	10.979	225	2479	0.389	ng	# 100
12) 2-Methylnaphthalene	12.299	142	8063	0.370	ng	99
16) Acenaphthylene	14.195	152	9766	0.370	ng	99
17) Acenaphthene	14.548	154	6828	0.382	ng	98
18) Fluorene	15.523	166	7620	0.352	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	257	0.297	ng	# 79
21) 4-Bromophenyl-phenylether	16.429	248	2332	0.383	ng	98
22) Hexachlorobenzene	16.540	284	2969	0.424	ng	99
23) Atrazine	16.689	200	1399	0.361	ng	96
24) Pentachlorophenol	16.876	266	830	0.408	ng	95
25) Phenanthrene	17.273	178	11247	0.383	ng	99
26) Anthracene	17.360	178	9601	0.369	ng	99
28) Fluoranthene	19.290	202	12968	0.402	ng	100
30) Pyrene	19.647	202	12812	0.388	ng	100
32) Benzo(a)anthracene	21.384	228	10867	0.370	ng	98
33) Chrysene	21.438	228	12584	0.399	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	3605	0.414	ng	99
36) Indeno(1,2,3-cd)pyrene	26.110	276	14316	0.408	ng	99
37) Benzo(b)fluoranthene	23.031	252	13207	0.402	ng	# 94
38) Benzo(k)fluoranthene	23.075	252	13139	0.392	ng	# 95
39) Benzo(a)pyrene	23.630	252	10193	0.387	ng	# 92
40) Dibenzo(a,h)anthracene	26.133	278	11121	0.397	ng	99
41) Benzo(g,h,i)perylene	26.835	276	12456	0.396	ng	99

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

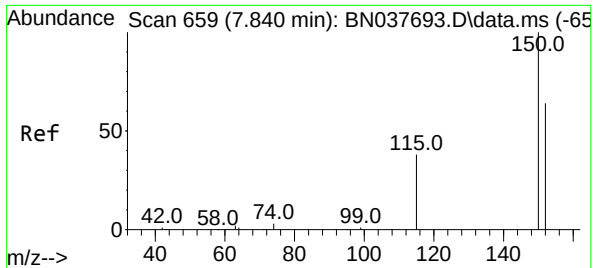
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



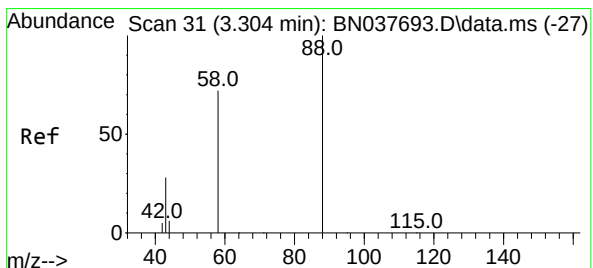
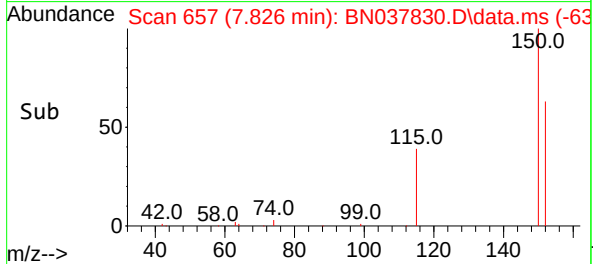
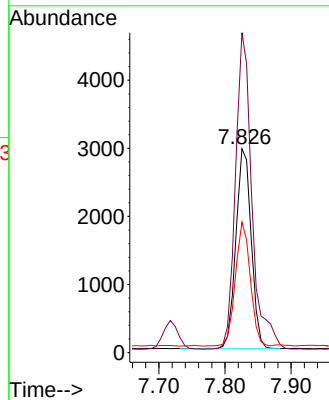
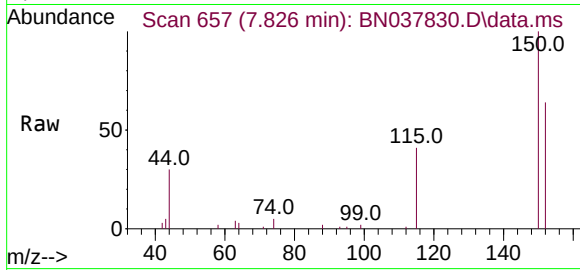
1
2
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18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

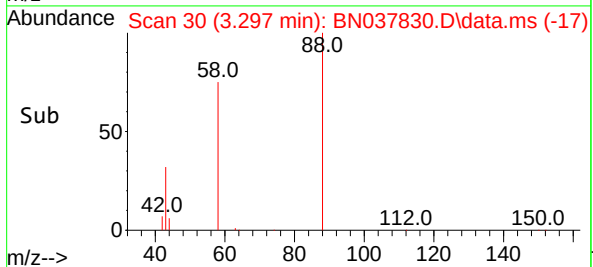
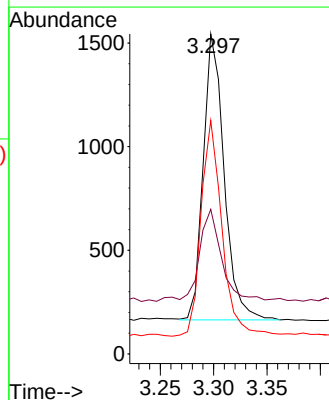
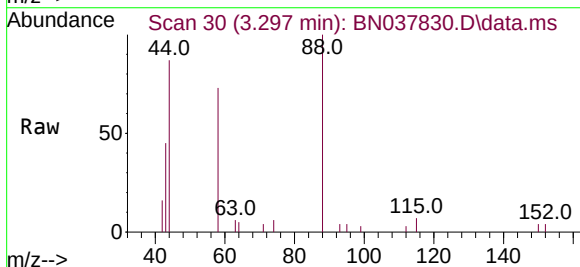
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4763
Ion Ratio Lower Upper
152 100
150 156.9 124.5 186.7
115 64.0 49.2 73.8

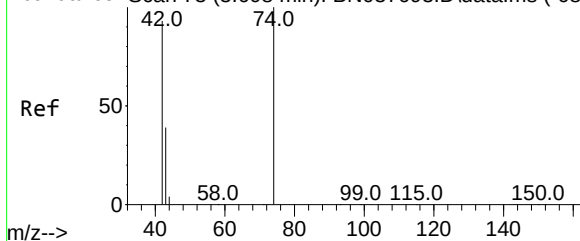


#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 88 Resp: 1880
Ion Ratio Lower Upper
88 100
43 34.9 26.8 40.2
58 75.7 61.9 92.9



Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



#3

n-Nitrosodimethylamine

Concen: 0.399 ng

RT: 3.601 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

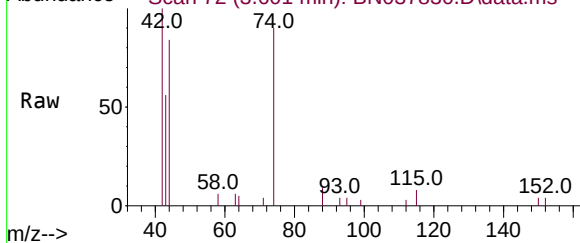
ClientSampleId :

SSTDCCC0.4EC

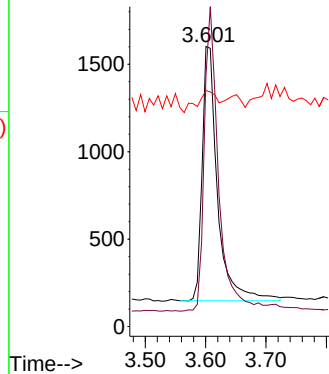
Tgt Ion: 42 Resp: 2585

Ion	Ratio	Lower	Upper
42	100		
74	110.6	86.0	129.0
44	10.4	8.4	12.6

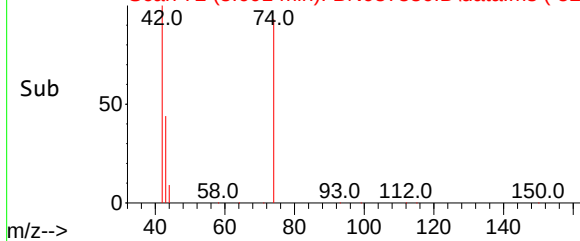
Abundance Scan 72 (3.601 min): BN037830.D\data.ms



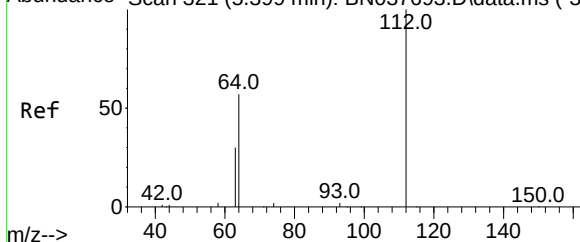
Abundance



Abundance Scan 72 (3.601 min): BN037830.D\data.ms (-52)



Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.361 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

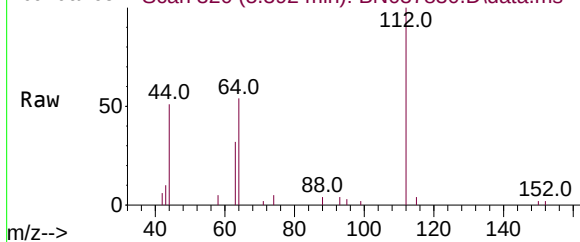
Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

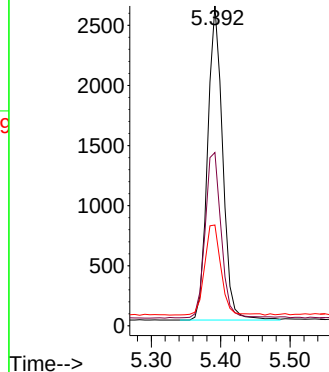
Tgt Ion: 112 Resp: 3952

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	30.9	24.7	37.1

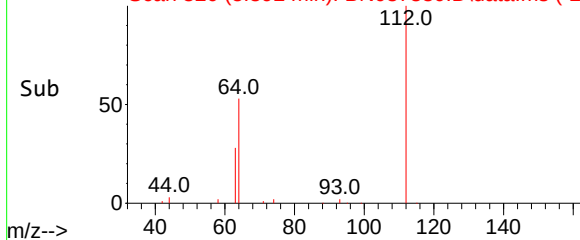
Abundance Scan 320 (5.392 min): BN037830.D\data.ms

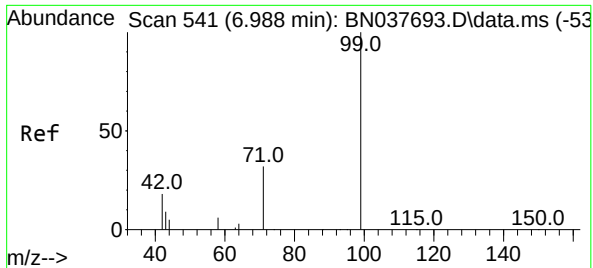


Abundance



Abundance Scan 320 (5.392 min): BN037830.D\data.ms (-29)

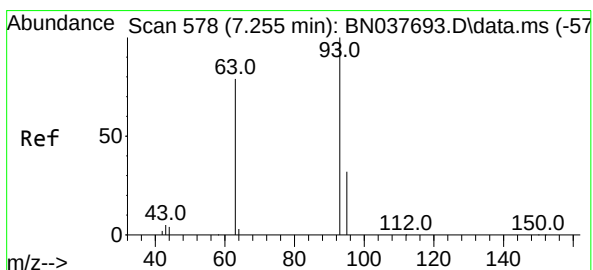
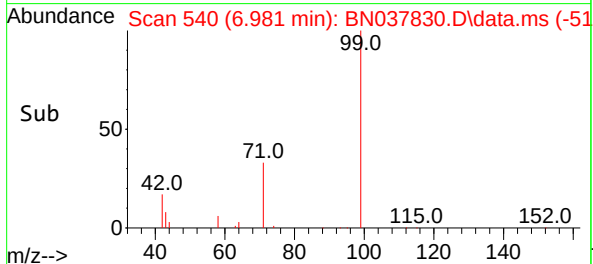
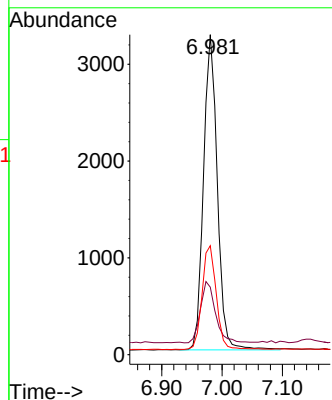
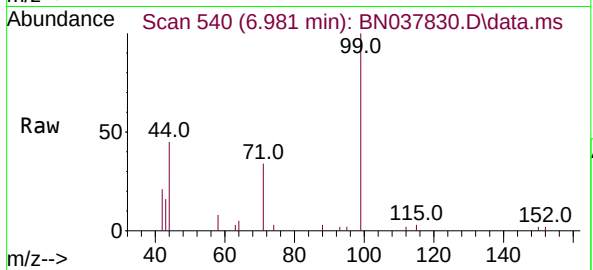




#5
Phenol-d6
Concen: 0.365 ng
RT: 6.981 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

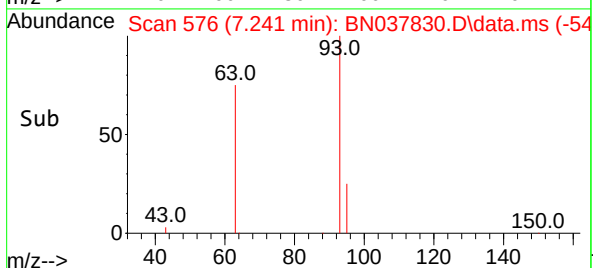
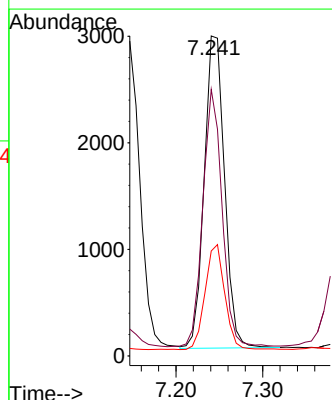
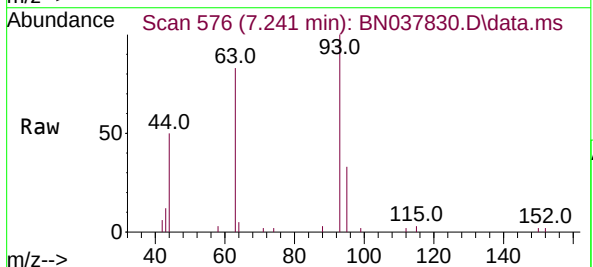
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

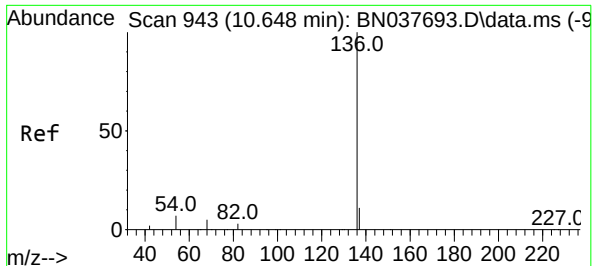
Tgt Ion: 99 Resp: 5181
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 34.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.241 min Scan# 576
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion: 93 Resp: 4760
Ion Ratio Lower Upper
93 100
63 78.1 60.6 90.8
95 32.8 26.0 39.0

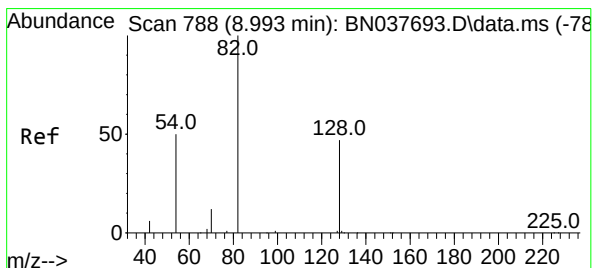
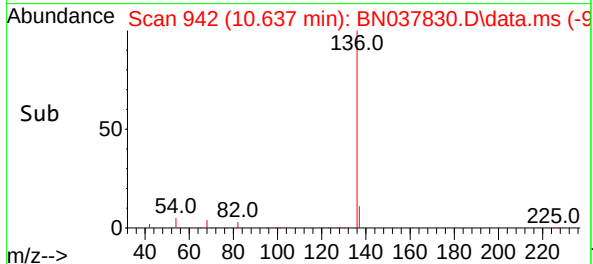
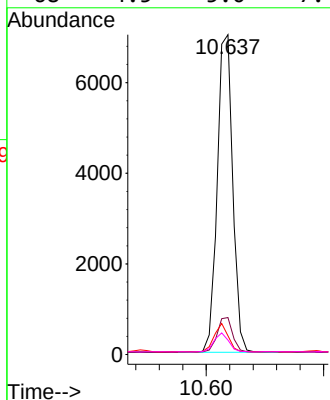
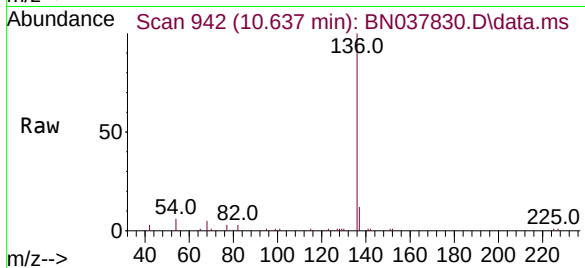




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

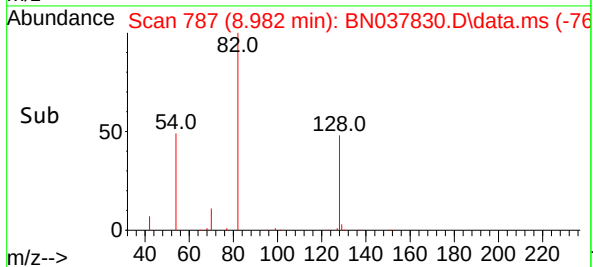
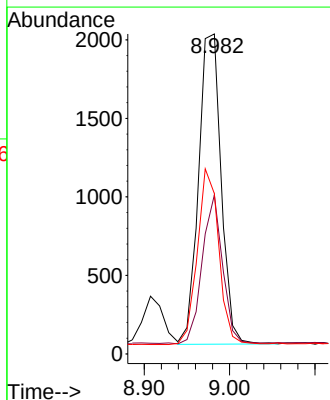
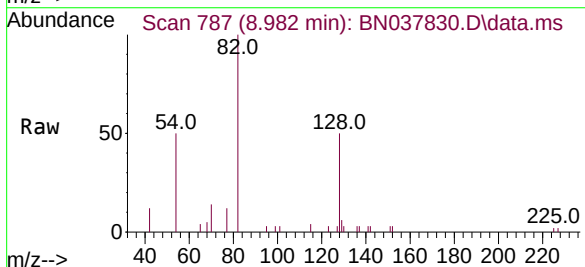
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

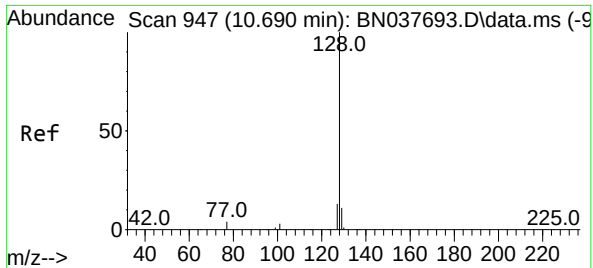
Tgt Ion:	136	Resp:	12882
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.1	13.7
54	5.9	6.3	9.5#
68	4.5	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:	82	Resp:	3636
Ion Ratio	Lower	Upper	
82	100		
128	49.7	38.3	57.5
54	50.1	41.4	62.2

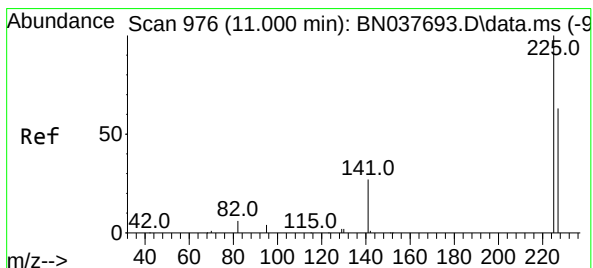
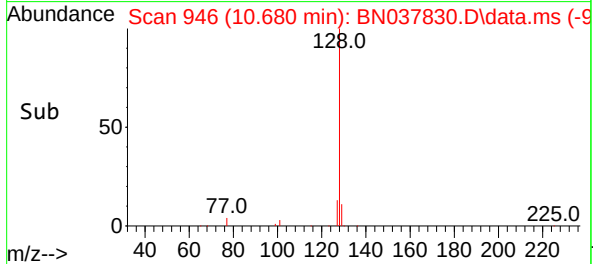
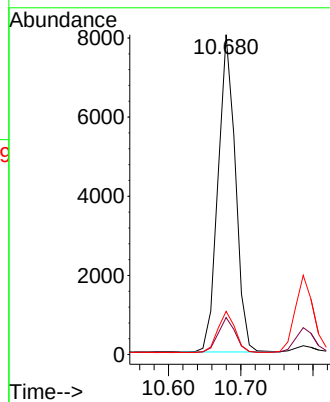
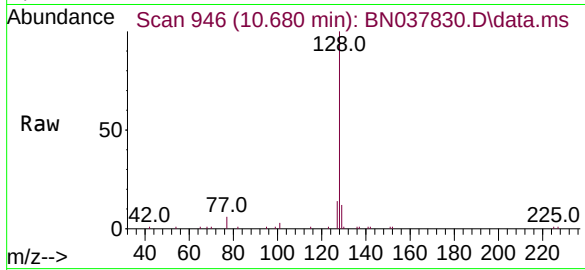




#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

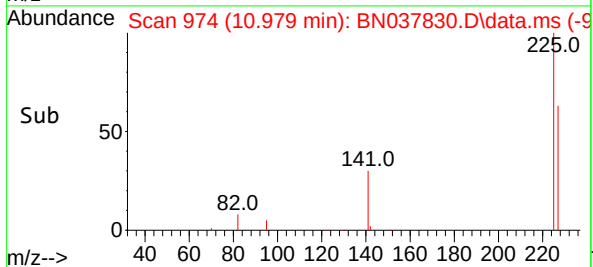
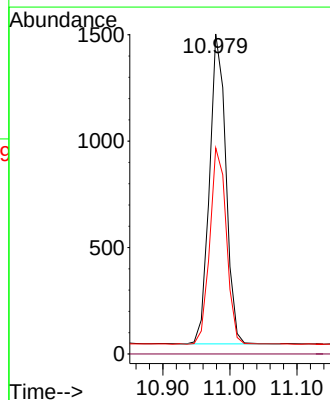
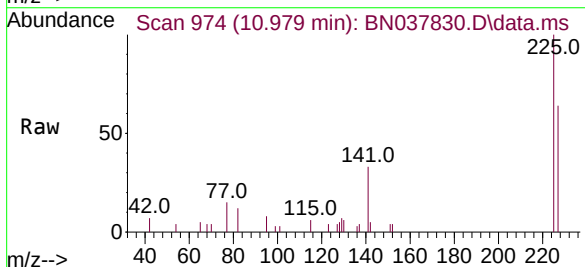
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

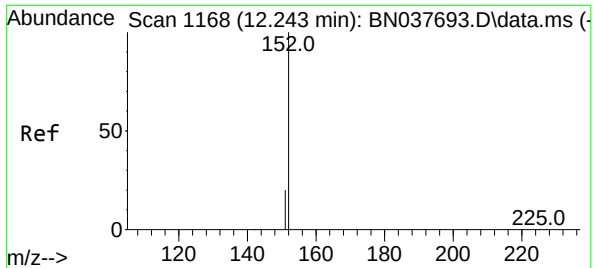
Tgt Ion:	128	Resp:	13409
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.1	13.7
127	13.5	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:	225	Resp:	2479
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3

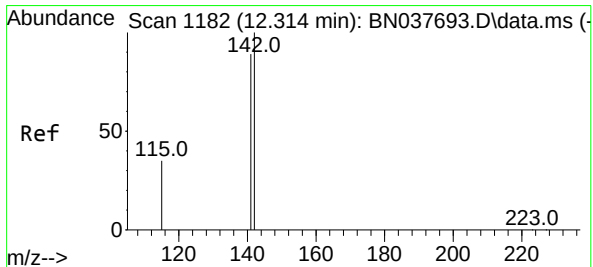
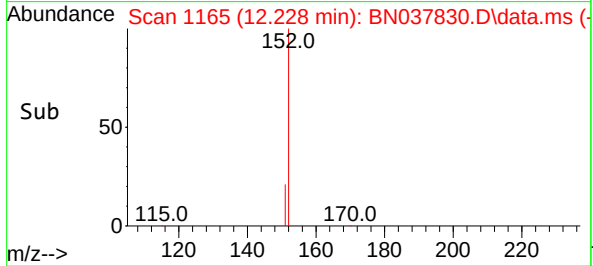
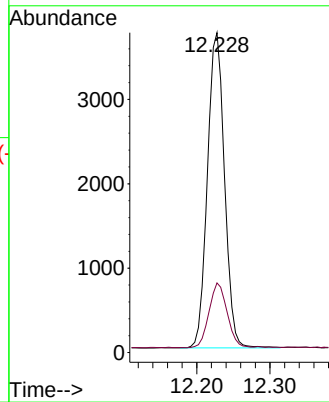
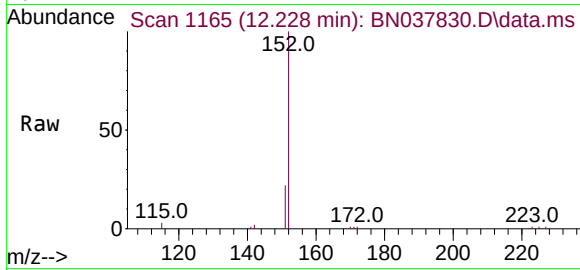




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.228 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

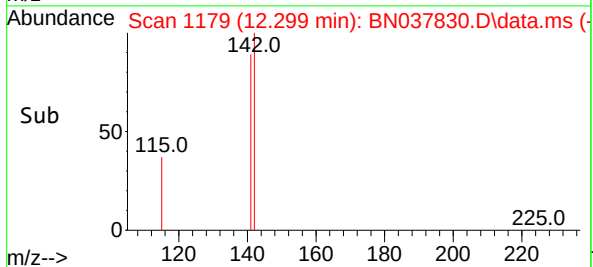
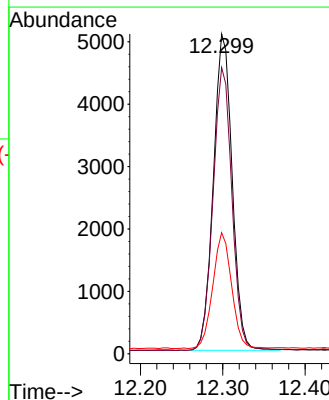
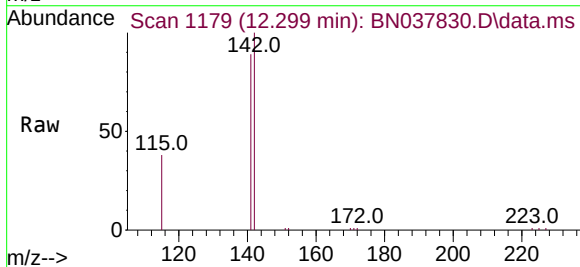
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

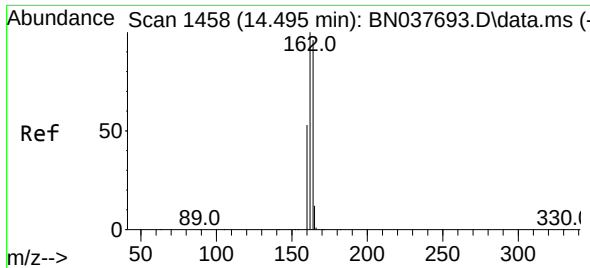
Tgt Ion:152 Resp: 6061
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.299 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:142 Resp: 8063
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 37.9 28.6 43.0

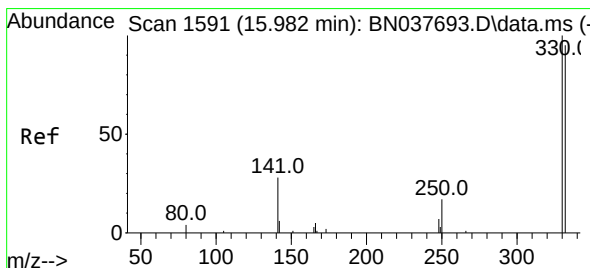
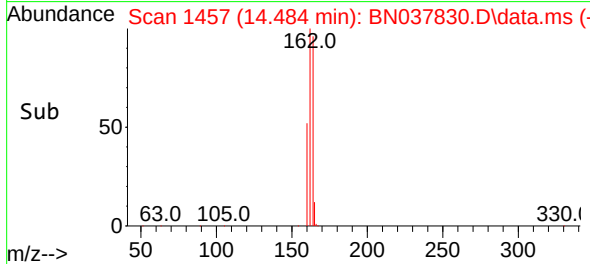
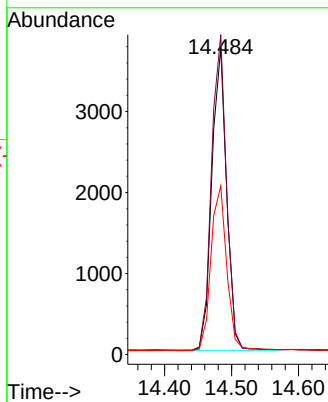
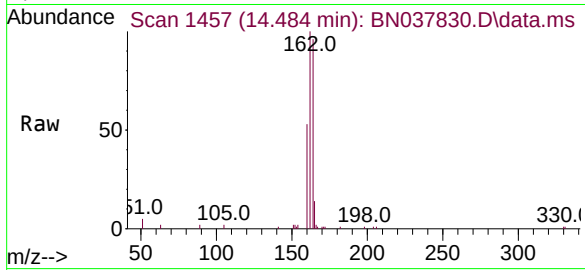




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

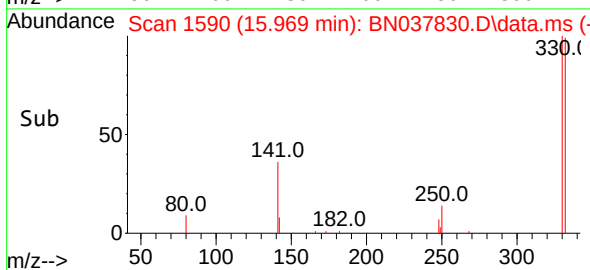
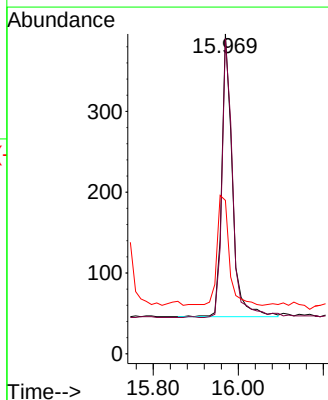
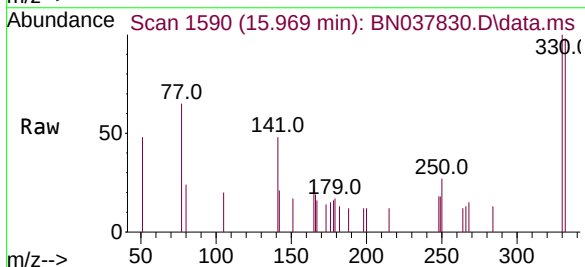
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

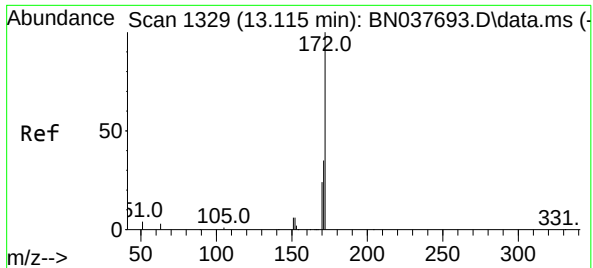
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	83.1	124.7
160	55.0	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.8	75.3	112.9
141	44.3	35.0	52.4

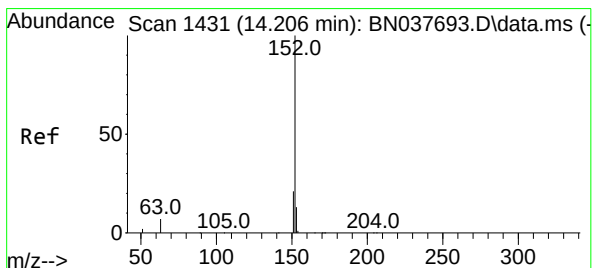
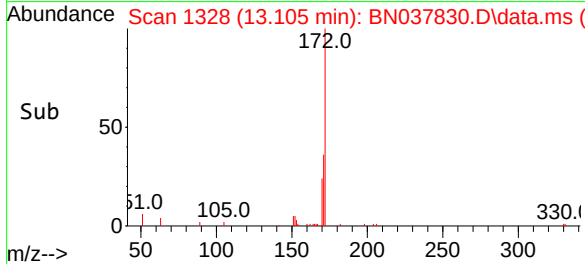
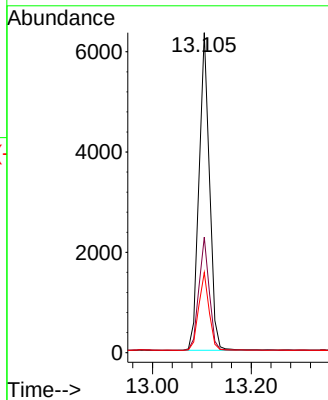
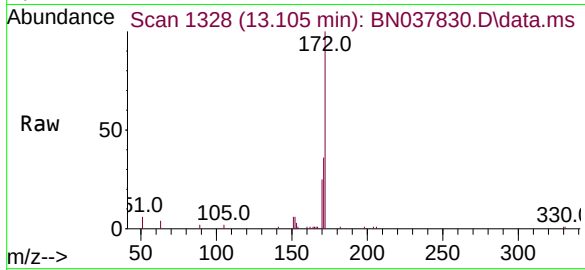




#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

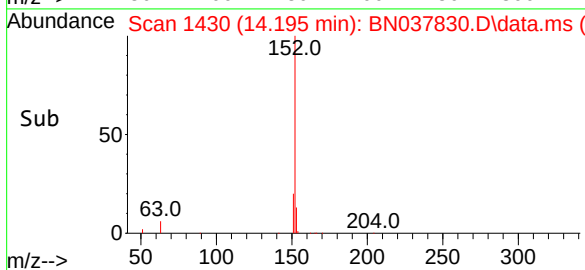
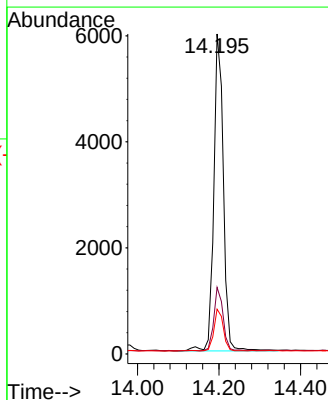
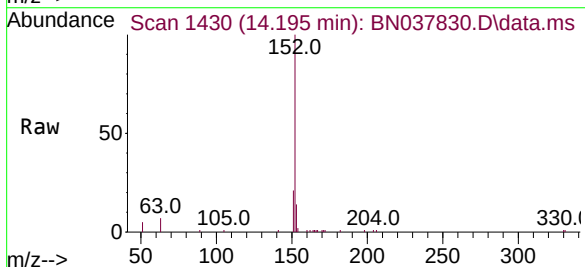
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

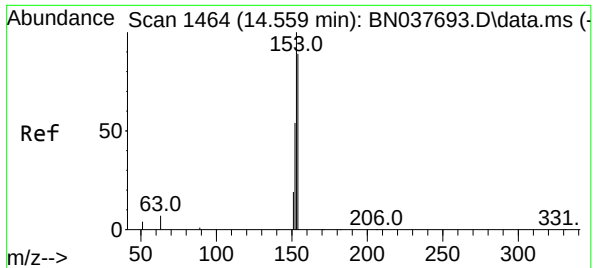
Tgt Ion:	172	Resp:	9332
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.6	43.0
170	25.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:	152	Resp:	9766
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.2	24.2
153	12.8	10.4	15.6

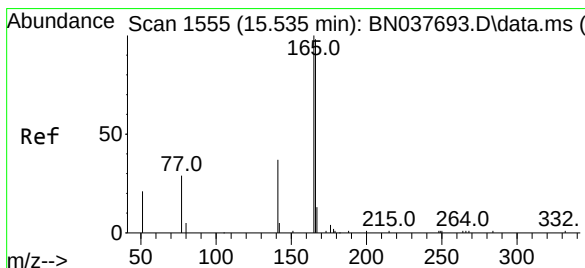
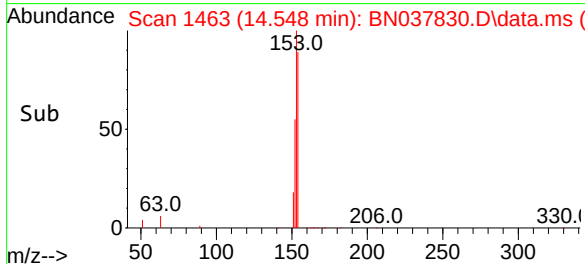
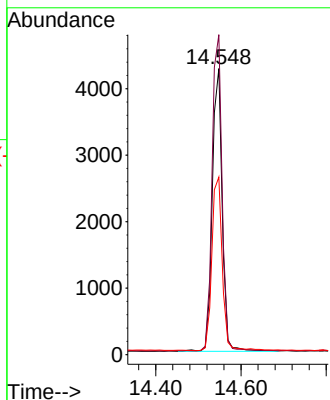
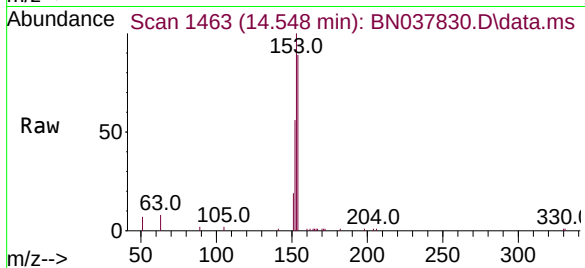




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

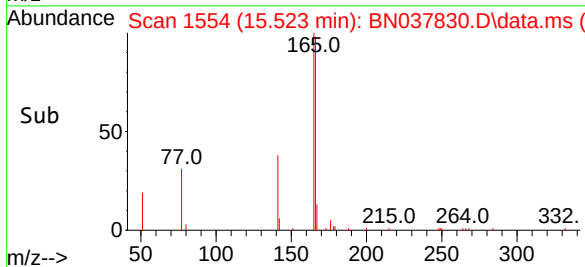
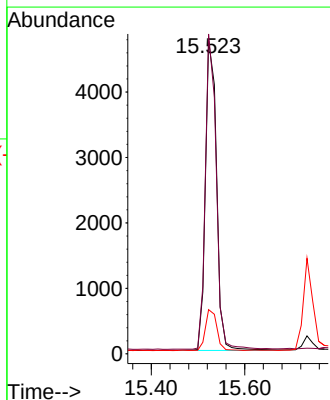
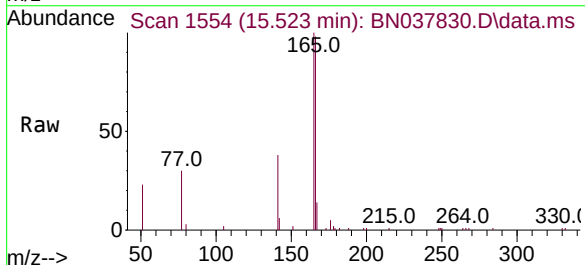
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

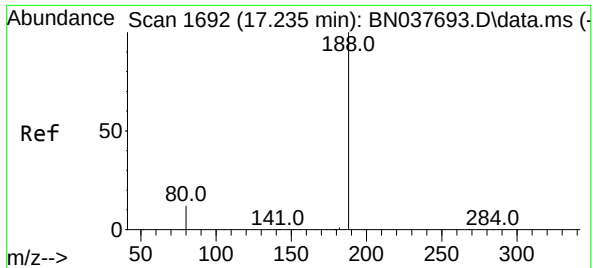
Tgt Ion:154 Resp: 6828
Ion Ratio Lower Upper
154 100
153 113.4 89.8 134.8
152 65.3 50.2 75.2



#18
Fluorene
Concen: 0.352 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:166 Resp: 7620
Ion Ratio Lower Upper
166 100
165 100.3 79.6 119.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

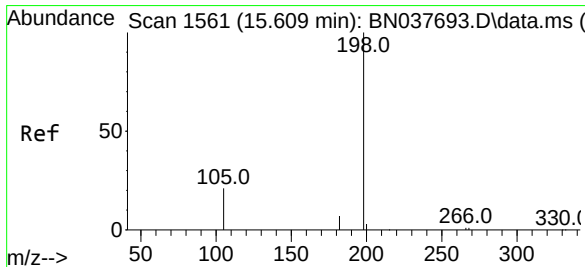
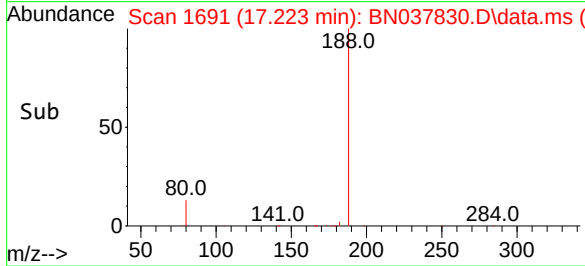
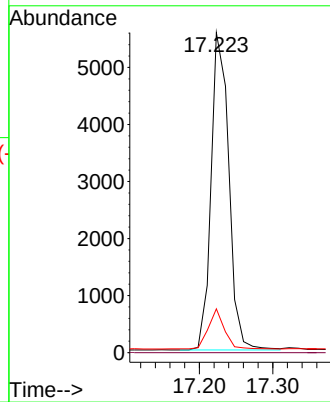
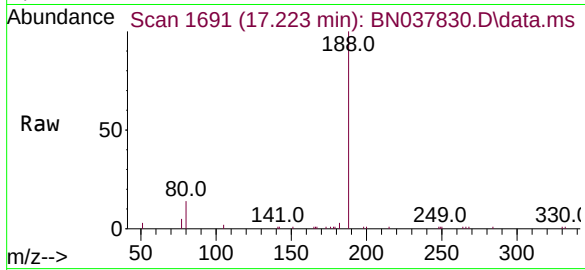
Tgt Ion:188 Resp: 9339

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.297 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

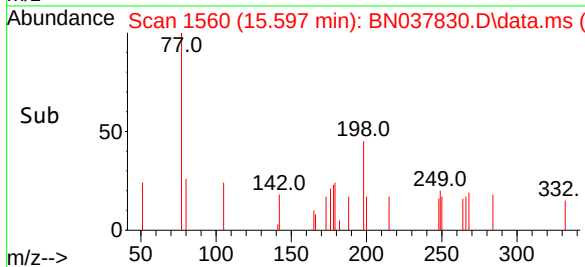
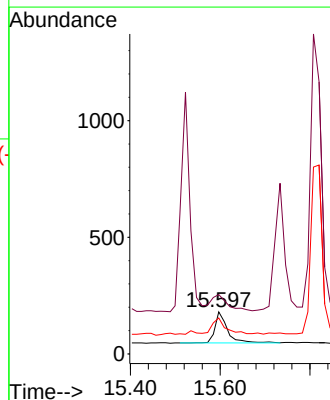
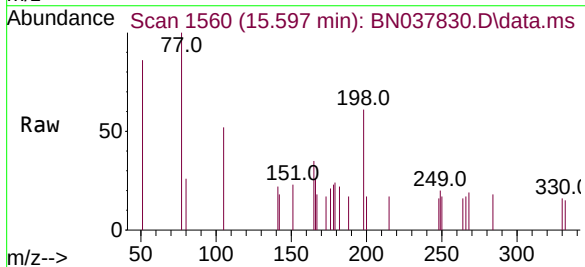
Tgt Ion:198 Resp: 257

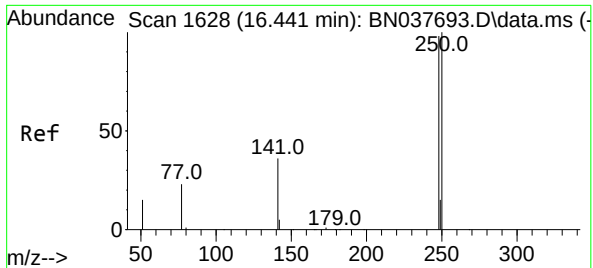
Ion Ratio Lower Upper

198 100

51 141.1 95.1 142.7

105 85.6 53.8 80.6#

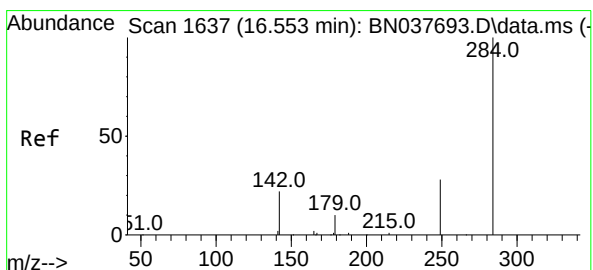
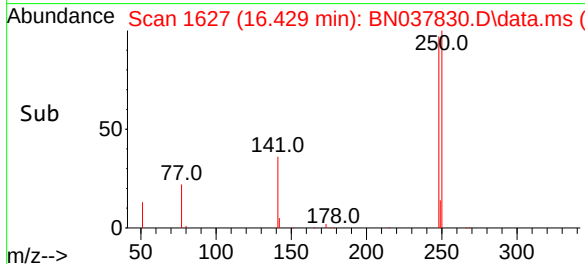
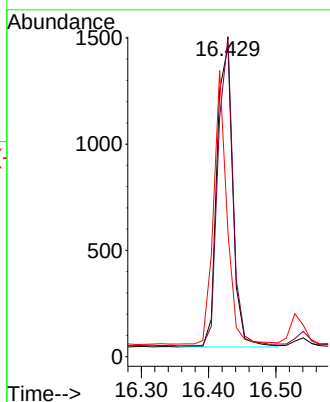
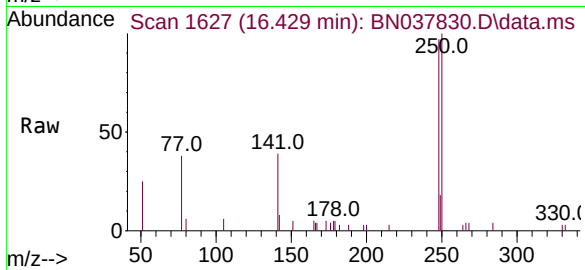




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

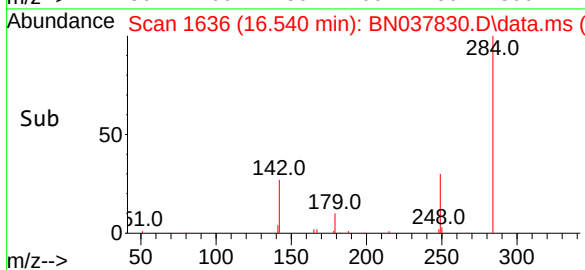
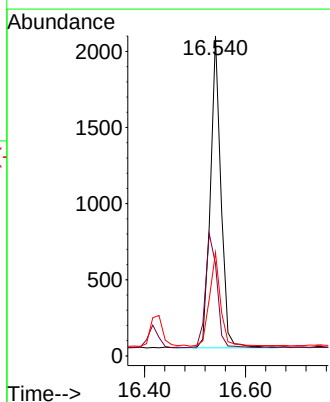
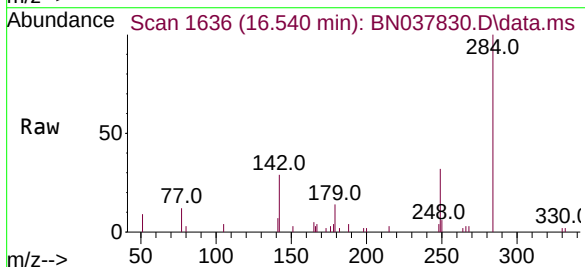
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

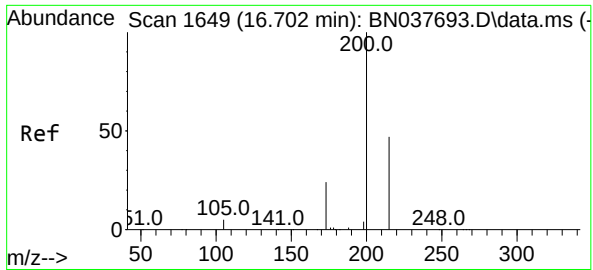
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	81.5	122.3
141	40.0	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.6	30.9	46.3
249	31.5	24.8	37.2

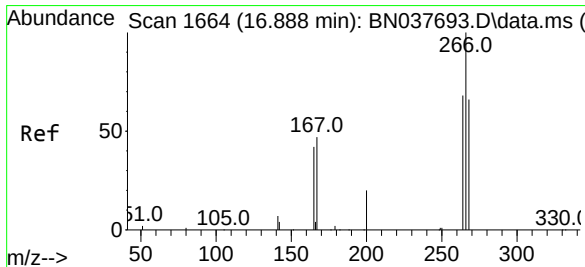
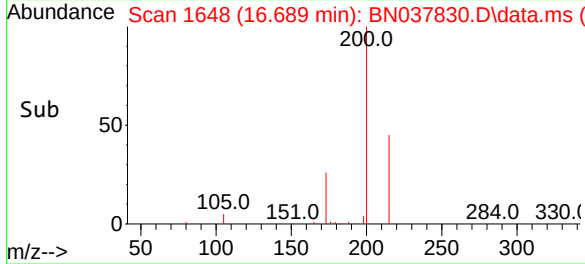
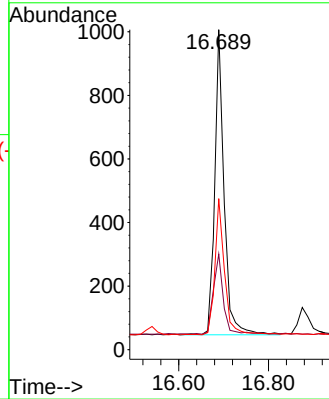
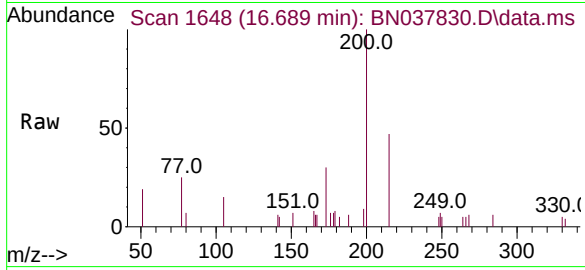




#23
Atrazine
Concen: 0.361 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

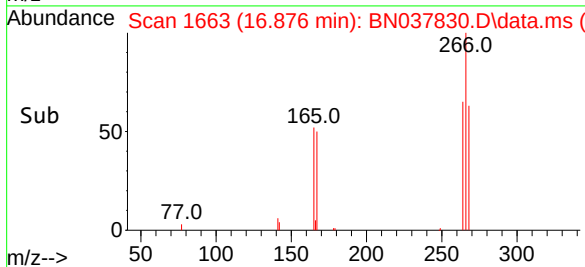
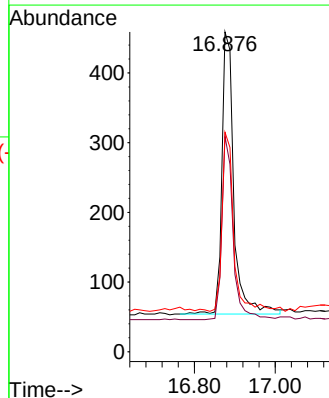
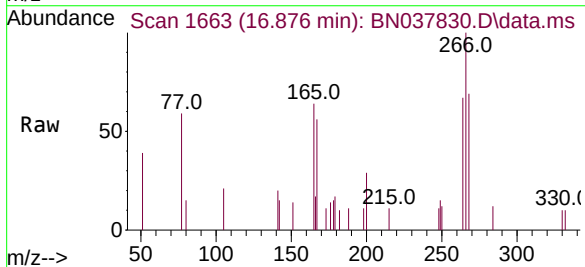
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

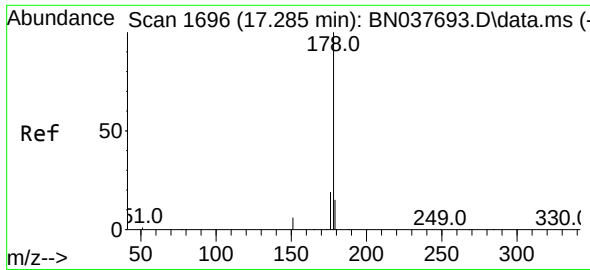
Tgt Ion:200 Resp: 1399
Ion Ratio Lower Upper
200 100
173 29.9 21.4 32.2
215 47.2 39.2 58.8



#24
Pentachlorophenol
Concen: 0.408 ng
RT: 16.876 min Scan# 1663
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:266 Resp: 830
Ion Ratio Lower Upper
266 100
264 61.1 51.6 77.4
268 61.9 53.2 79.8

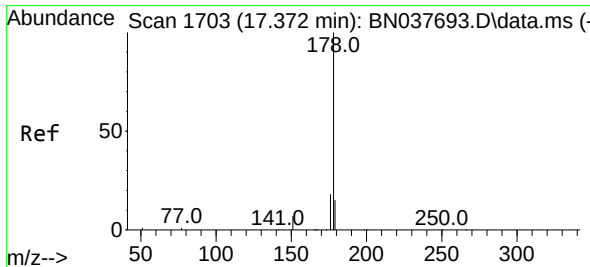
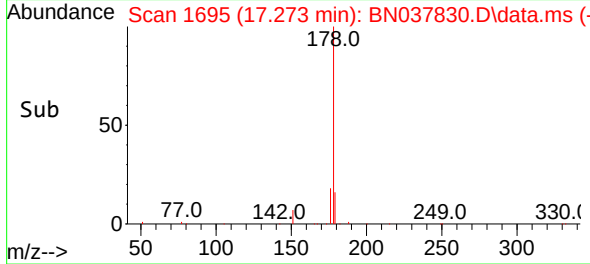
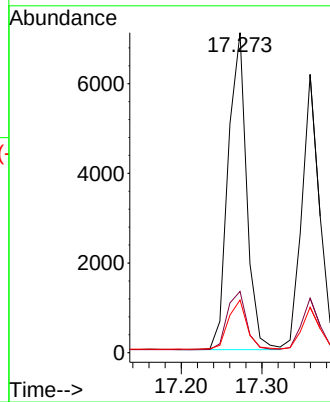
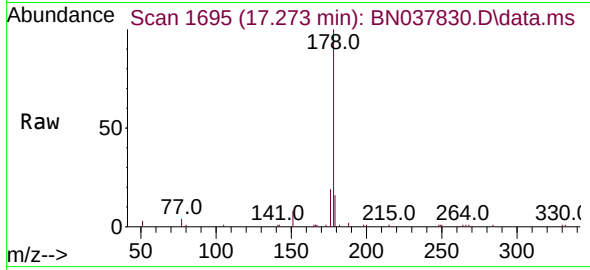




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

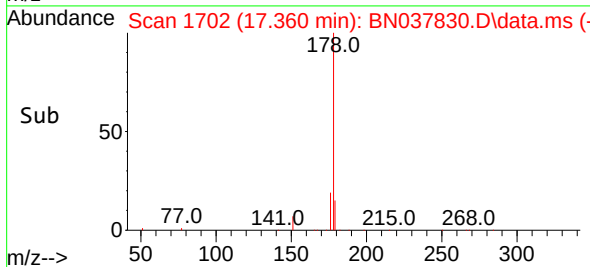
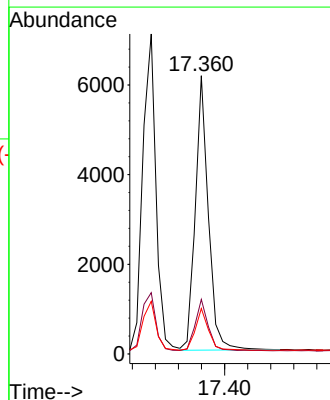
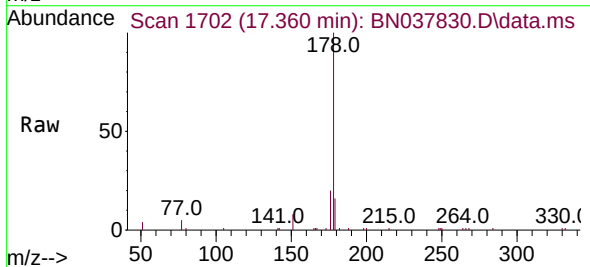
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

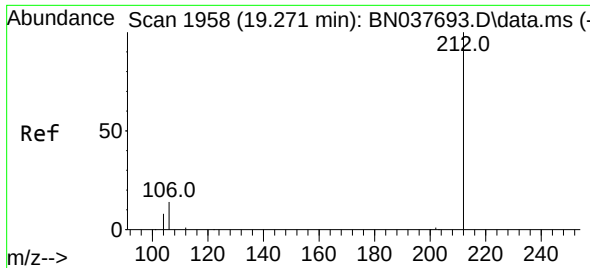
Tgt Ion:178 Resp: 11247
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.369 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:178 Resp: 9601
Ion Ratio Lower Upper
178 100
176 18.8 14.6 22.0
179 15.4 12.2 18.4

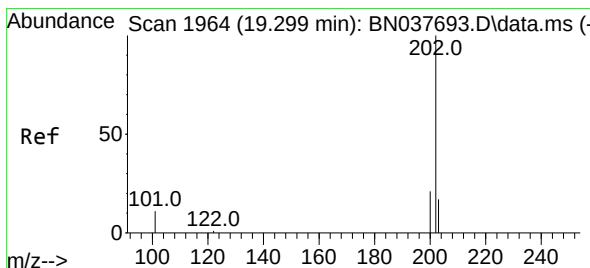
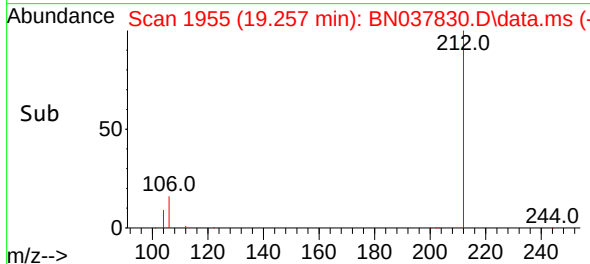
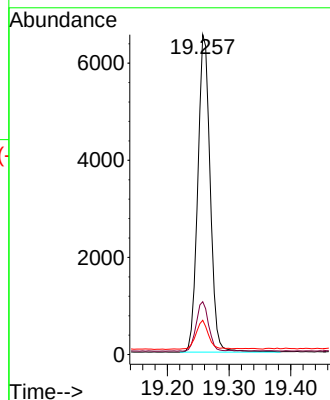
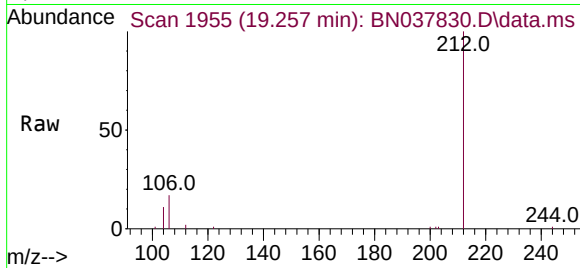




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

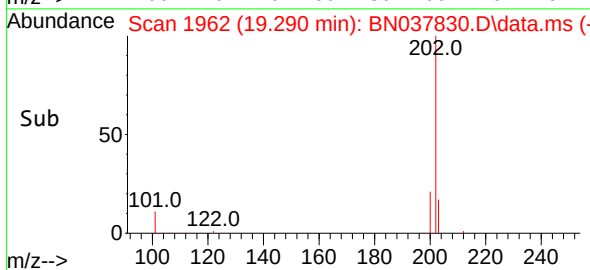
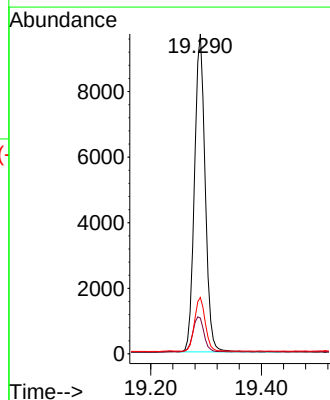
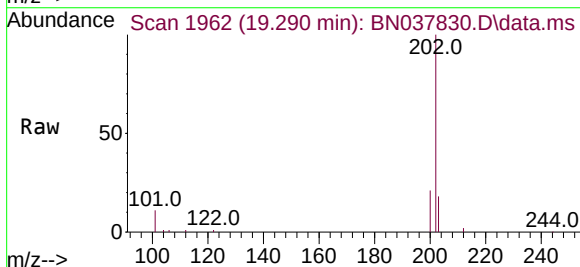
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

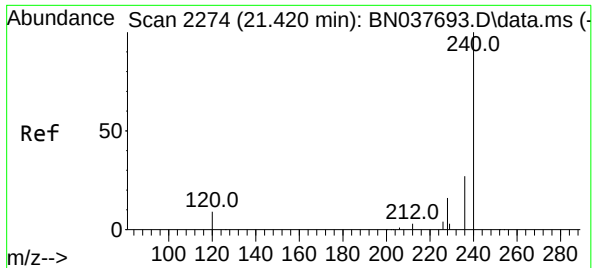
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.402 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

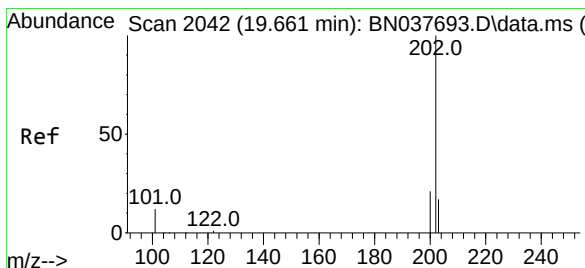
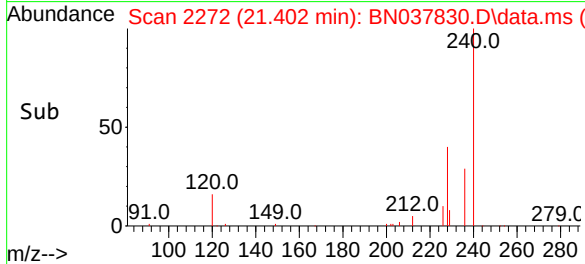
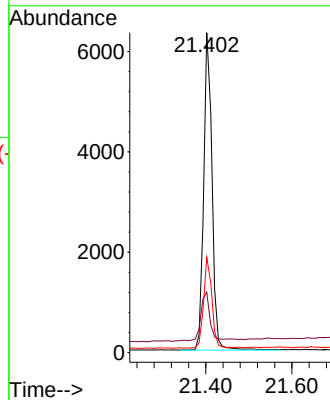
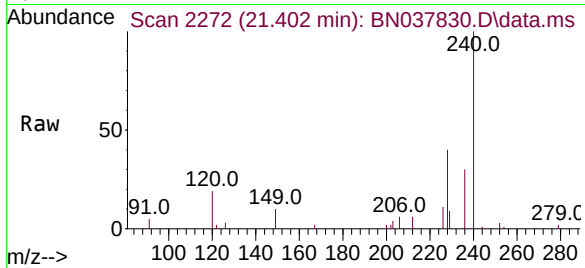
Tgt Ion:240 Resp: 8425

Ion Ratio Lower Upper

240 100

120 18.9 9.2 13.8#

236 29.7 22.6 33.8



#30

Pyrene

Concen: 0.388 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.014 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

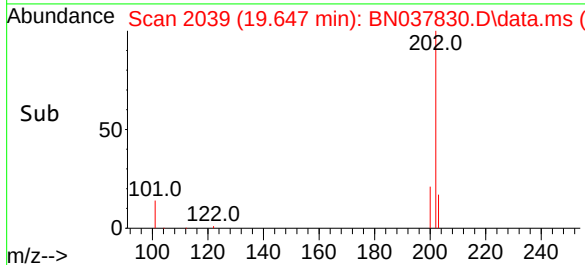
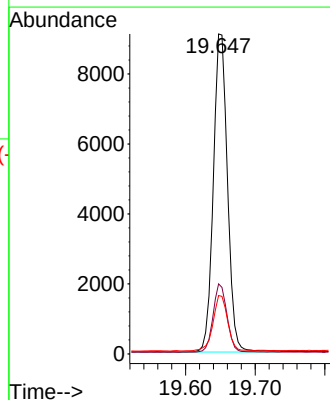
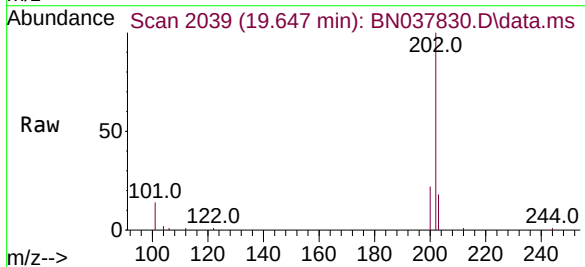
Tgt Ion:202 Resp: 12812

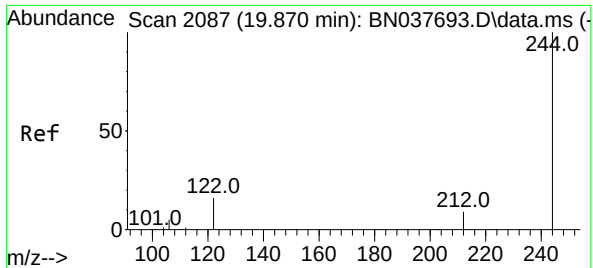
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.8 14.3 21.5

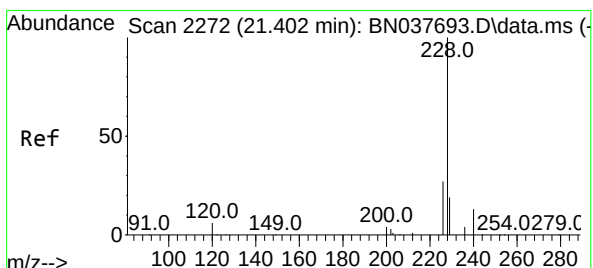
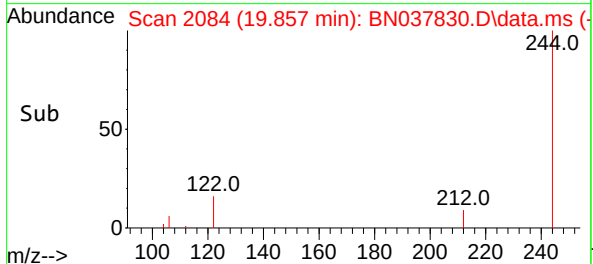
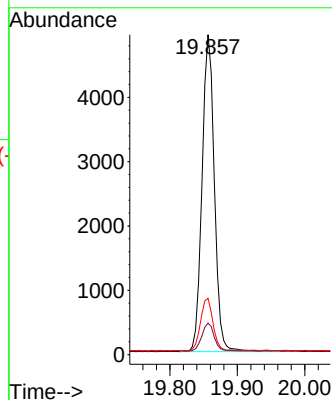
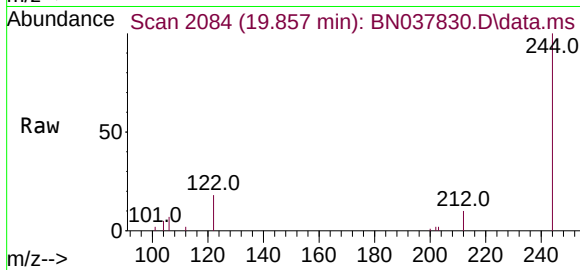




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.857 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

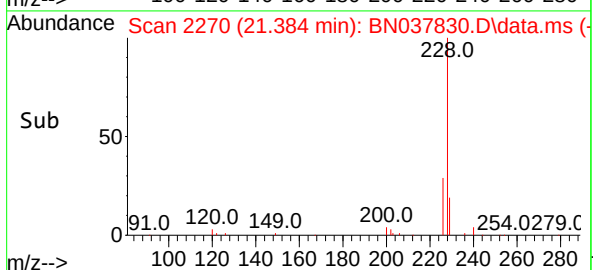
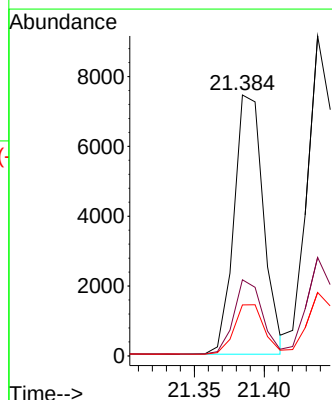
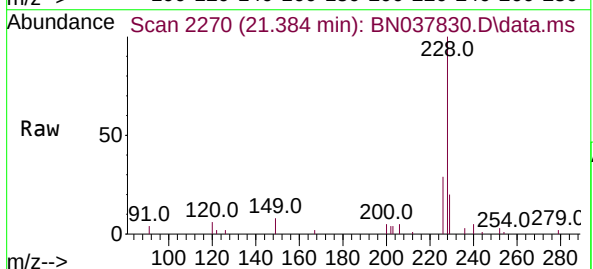
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

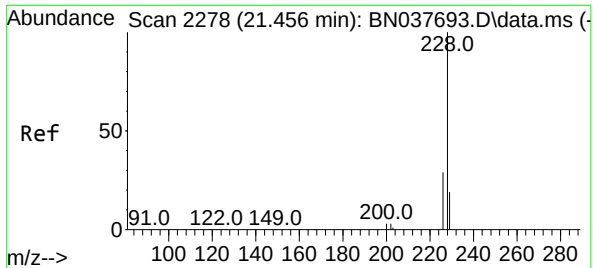
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.5	11.3
122	17.6	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.2
229	19.5	15.8	23.6

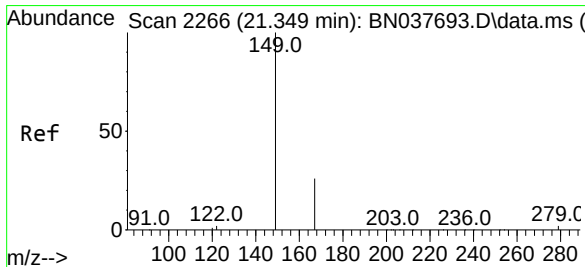
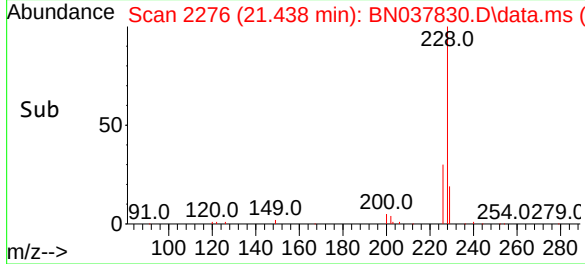
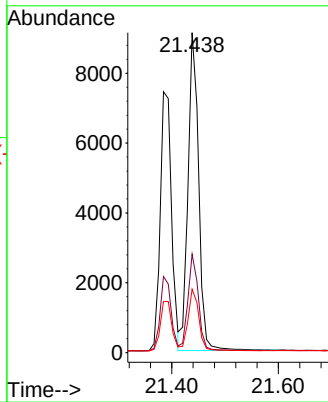
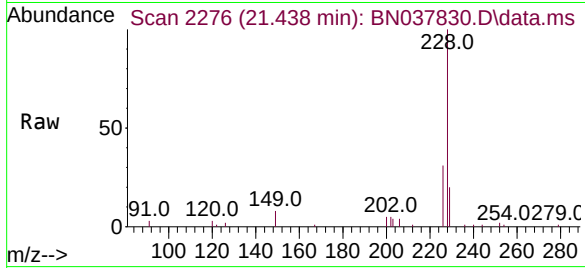




#33
Chrysene
Concen: 0.399 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

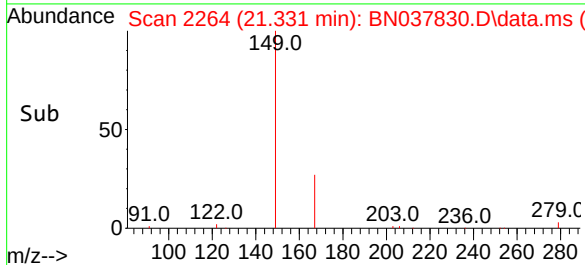
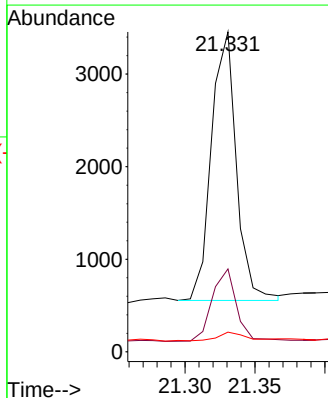
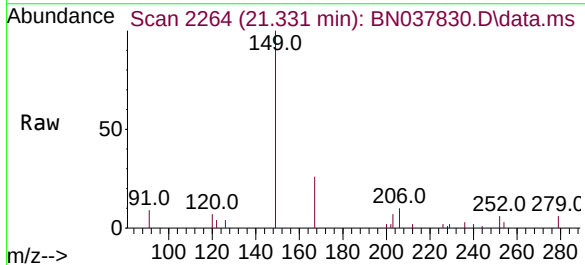
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

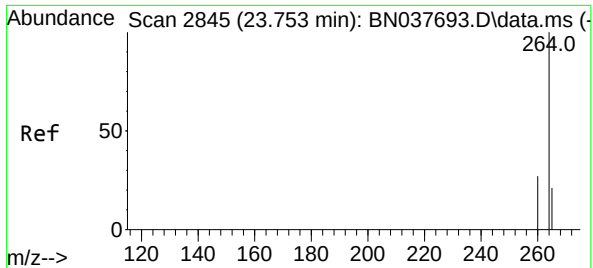
Tgt Ion:228	Resp:	12584
Ion Ratio	Lower	Upper
228	100	
226	30.8	23.5 35.3
229	19.8	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.414 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

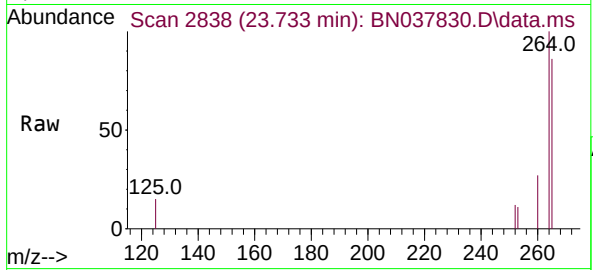
Tgt Ion:149	Resp:	3605
Ion Ratio	Lower	Upper
149	100	
167	26.7	20.8 31.2
279	3.5	3.3 4.9



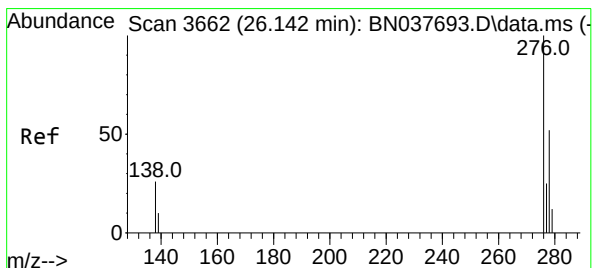
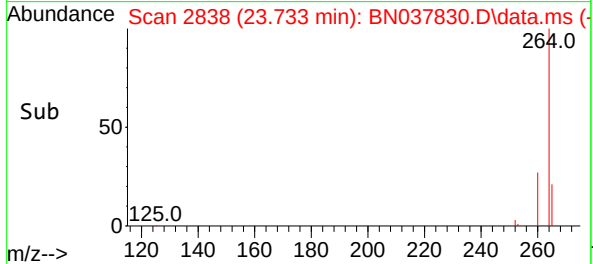
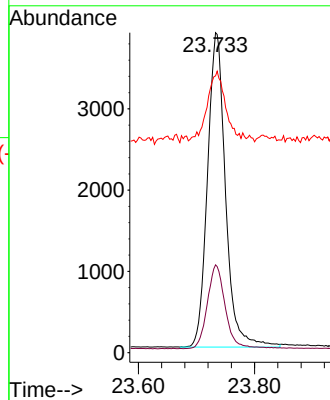


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. -0.020 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

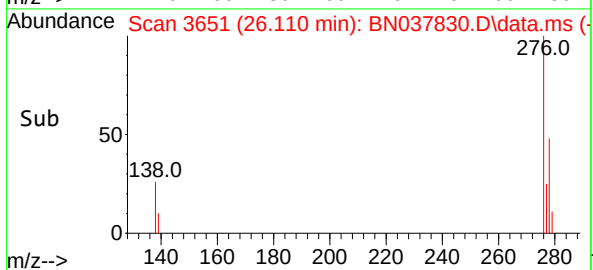
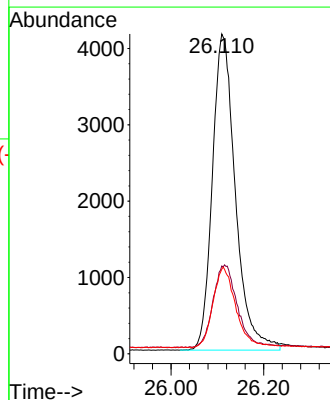
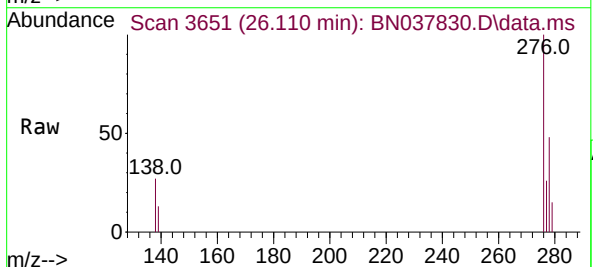


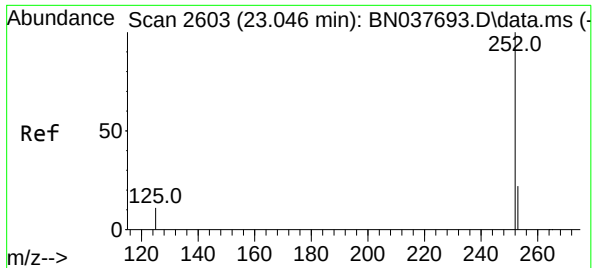
Tgt Ion:264 Resp: 8348
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 86.5 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037830.D
Acq: 20 Sep 2025 00:39

Tgt Ion:276 Resp: 14316
Ion Ratio Lower Upper
276 100
138 26.8 21.9 32.9
277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.402 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

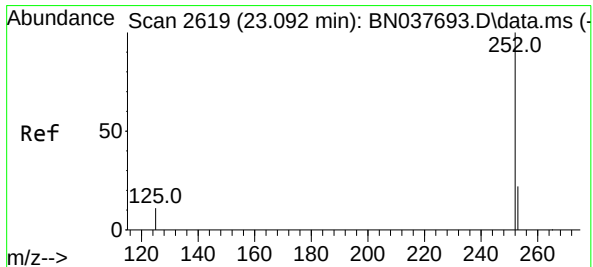
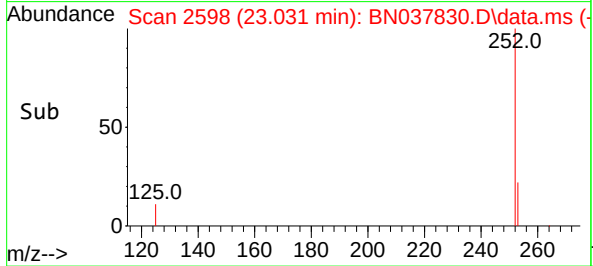
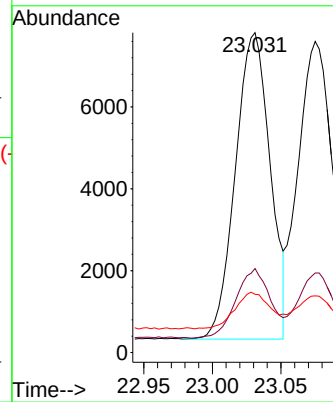
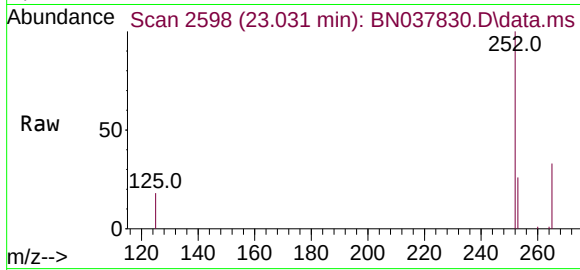
Tgt Ion:252 Resp: 13207

Ion Ratio Lower Upper

252 100

253 26.3 19.4 29.2

125 18.2 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 23.075 min Scan# 2613

Delta R.T. -0.018 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

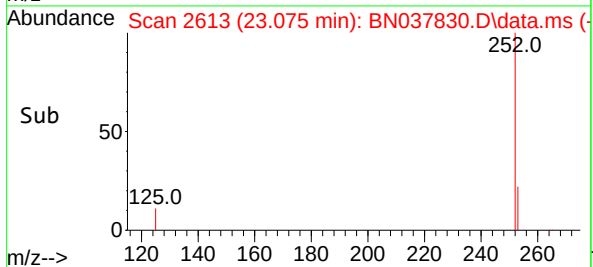
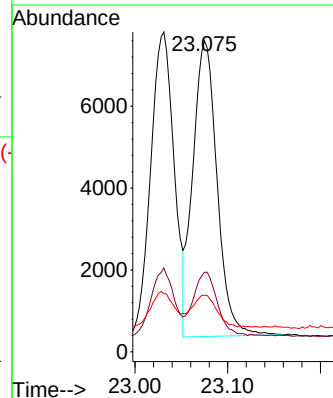
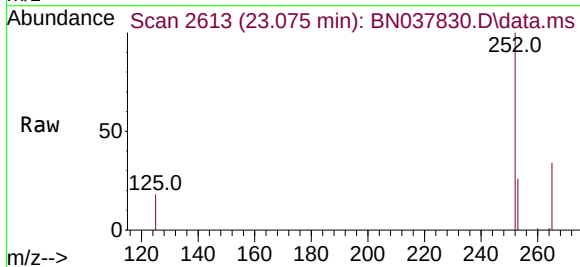
Tgt Ion:252 Resp: 13139

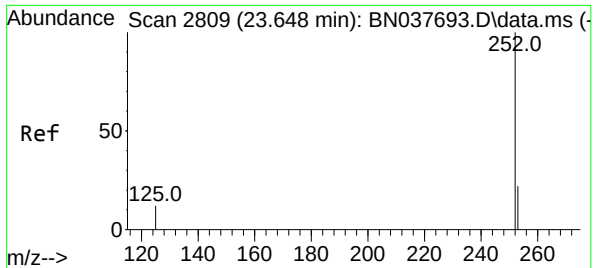
Ion Ratio Lower Upper

252 100

253 25.6 19.4 29.0

125 18.2 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.630 min Scan# 2803

Delta R.T. -0.018 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

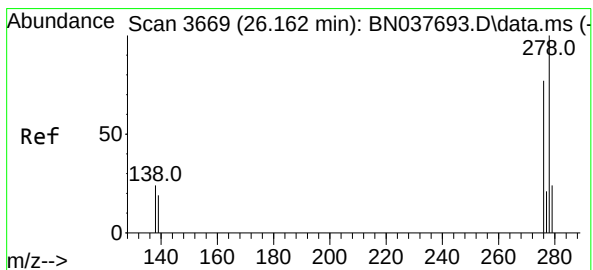
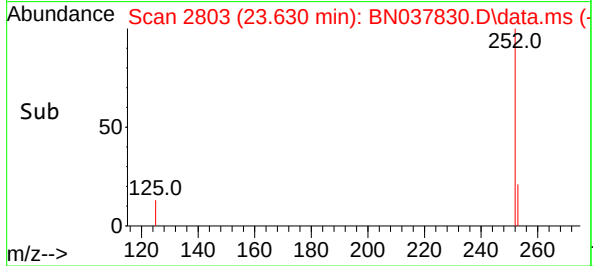
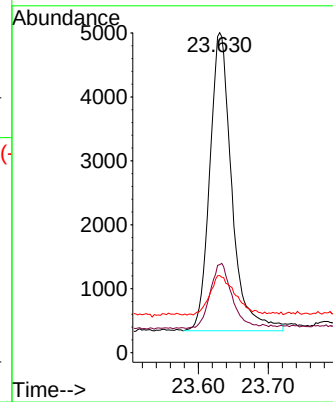
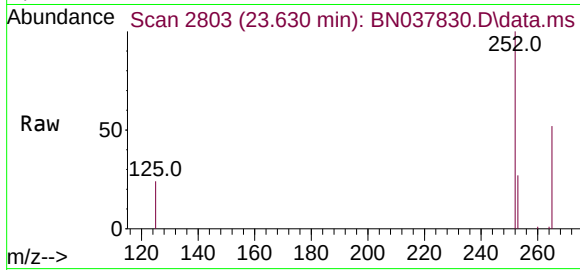
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	10193
Ion Ratio	Lower	Upper
252	100	
253	27.5	20.8 31.2
125	24.1	13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

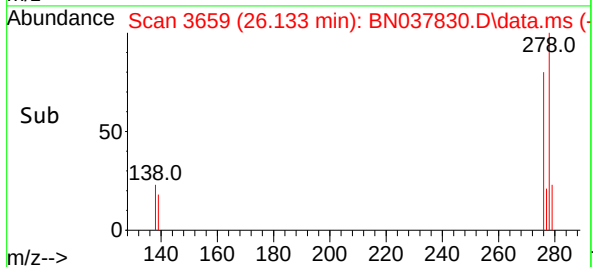
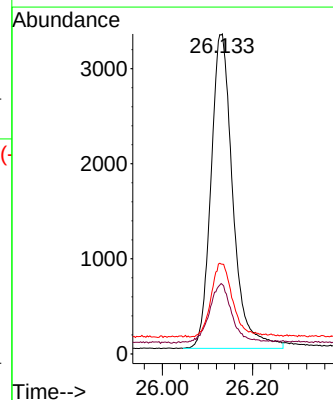
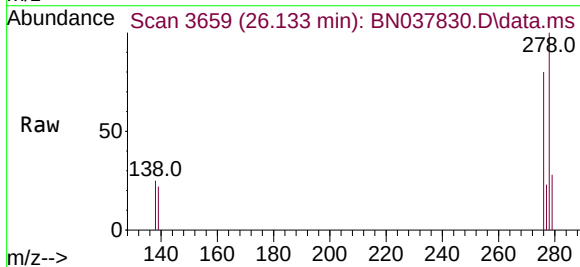
RT: 26.133 min Scan# 3659

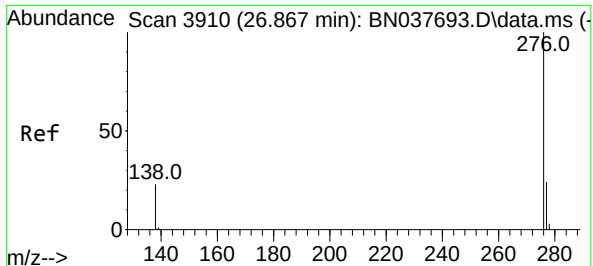
Delta R.T. -0.029 min

Lab File: BN037830.D

Acq: 20 Sep 2025 00:39

Tgt Ion:278	Resp:	11121
Ion Ratio	Lower	Upper
278	100	
139	21.7	17.8 26.6
279	28.0	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.835 min Scan# 38

Delta R.T. -0.032 min

Lab File: BN037830.D

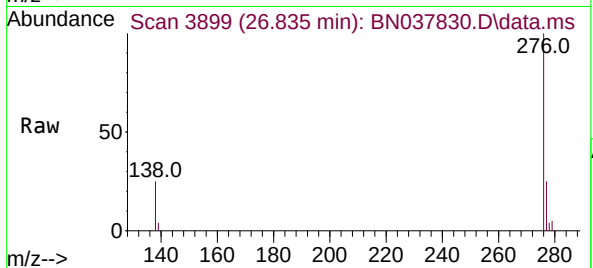
Acq: 20 Sep 2025 00:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



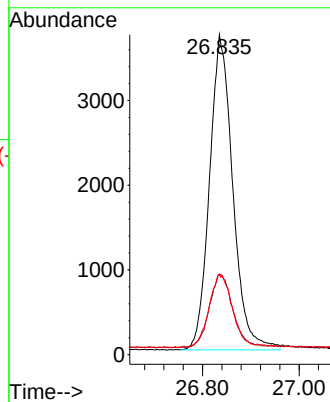
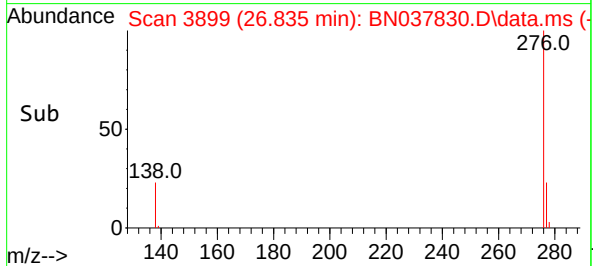
Tgt Ion:276 Resp: 12456

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 25.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	95	-0.01
2	1,4-Dioxane	0.417	0.395	5.3	89	0.00
3	n-Nitrosodimethylamine	0.544	0.543	0.2	92	0.00
4 S	2-Fluorophenol	0.918	0.830	9.6	89	0.00
5 S	Phenol-d6	1.191	1.088	8.6	90	0.00
6	bis(2-Chloroethyl)ether	1.064	0.999	6.1	89	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	97	-0.01
8 S	Nitrobenzene-d5	0.293	0.282	3.8	96	-0.01
9	Naphthalene	1.093	1.041	4.8	94	-0.01
10	Hexachlorobutadiene	0.198	0.192	3.0	95	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.471	11.1	92	-0.02
12	2-Methylnaphthalene	0.676	0.626	7.4	92	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.105	-1.0	97	-0.01
15 S	2-Fluorobiphenyl	1.673	1.621	3.1	91	-0.01
16	Acenaphthylene	1.834	1.696	7.5	88	-0.01
17	Acenaphthene	1.240	1.186	4.4	91	-0.01
18	Fluorene	1.502	1.324	11.9	85	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.028	24.3	69	-0.01
21	4-Bromophenyl-phenylether	0.261	0.250	4.2	82	-0.01
22	Hexachlorobenzene	0.300	0.318	-6.0	90	-0.01
23	Atrazine	0.166	0.150	9.6	82	-0.01
24	Pentachlorophenol	0.087	0.089	-2.3	99	-0.01
25	Phenanthrene	1.259	1.204	4.4	82	-0.01
26	Anthracene	1.116	1.028	7.9	80	-0.01
27 SURR	Fluoranthene-d10	1.004	0.971	3.3	86	-0.01
28	Fluoranthene	1.381	1.389	-0.6	88	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	-0.02
30	Pyrene	1.566	1.521	2.9	88	-0.01
31 S	Terphenyl-d14	0.812	0.741	8.7	83	-0.01
32	Benzo(a)anthracene	1.395	1.290	7.5	86	-0.02
33	Chrysene	1.496	1.494	0.1	90	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.428	-3.4	102	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	93	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.715	-2.0	103	-0.03
37	Benzo(b)fluoranthene	1.575	1.582	-0.4	95	-0.01
38	Benzo(k)fluoranthene	1.606	1.574	2.0	96	-0.02
39 C	Benzo(a)pyrene	1.261	1.221	3.2	95	-0.02
40	Dibenzo(a,h)anthracene	1.342	1.332	0.7	102	-0.03
41	Benzo(g,h,i)perylene	1.506	1.492	0.9	96	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037830.D
Acq On : 20 Sep 2025 00:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 01:04:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	95	-0.01
2	1,4-Dioxane	0.400	0.379	5.3	89	0.00
3	n-Nitrosodimethylamine	0.400	0.399	0.3	92	0.00
4 S	2-Fluorophenol	0.400	0.361	9.8	89	0.00
5 S	Phenol-d6	0.400	0.365	8.8	90	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	89	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	97	-0.01
8 S	Nitrobenzene-d5	0.400	0.386	3.5	96	-0.01
9	Naphthalene	0.400	0.381	4.8	94	-0.01
10	Hexachlorobutadiene	0.400	0.389	2.8	95	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	92	-0.02
12	2-Methylnaphthalene	0.400	0.370	7.5	92	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	93	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.404	-1.0	97	-0.01
15 S	2-Fluorobiphenyl	0.400	0.388	3.0	91	-0.01
16	Acenaphthylene	0.400	0.370	7.5	88	-0.01
17	Acenaphthene	0.400	0.382	4.5	91	-0.01
18	Fluorene	0.400	0.352	12.0	85	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.297	25.8#	69	-0.01
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	82	-0.01
22	Hexachlorobenzene	0.400	0.424	-6.0	90	-0.01
23	Atrazine	0.400	0.361	9.8	82	-0.01
24	Pentachlorophenol	0.400	0.408	-2.0	99	-0.01
25	Phenanthrene	0.400	0.383	4.3	82	-0.01
26	Anthracene	0.400	0.369	7.8	80	-0.01
27 SURR	Fluoranthene-d10	0.400	0.387	3.3	86	-0.01
28	Fluoranthene	0.400	0.402	-0.5	88	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	-0.02
30	Pyrene	0.400	0.388	3.0	88	-0.01
31 S	Terphenyl-d14	0.400	0.365	8.8	83	-0.01
32	Benzo(a)anthracene	0.400	0.370	7.5	86	-0.02
33	Chrysene	0.400	0.399	0.3	90	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.414	-3.5	102	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	93	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.408	-2.0	103	-0.03
37	Benzo(b)fluoranthene	0.400	0.402	-0.5	95	-0.01
38	Benzo(k)fluoranthene	0.400	0.392	2.0	96	-0.02
39 C	Benzo(a)pyrene	0.400	0.387	3.3	95	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	102	-0.03
41	Benzo(g,h,i)perylene	0.400	0.396	1.0	96	-0.03

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/20/2025 02:35
 Lab File ID: BN037832.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.469		-11.5	20.0
Fluoranthene-d10	1.004	0.832		-17.1	20.0
2-Fluorophenol	0.918	0.870		-5.2	20.0
Phenol-d6	1.191	1.110		-6.8	20.0
Nitrobenzene-d5	0.293	0.281		-4.1	20.0
2-Fluorobiphenyl	1.673	1.666		-0.4	20.0
2,4,6-Tribromophenol	0.104	0.112		7.7	20.0
Terphenyl-d14	0.812	0.693		-14.7	20.0
1,4-Dioxane	0.417	0.400		-4.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037832.D
 Acq On : 20 Sep 2025 02:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

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

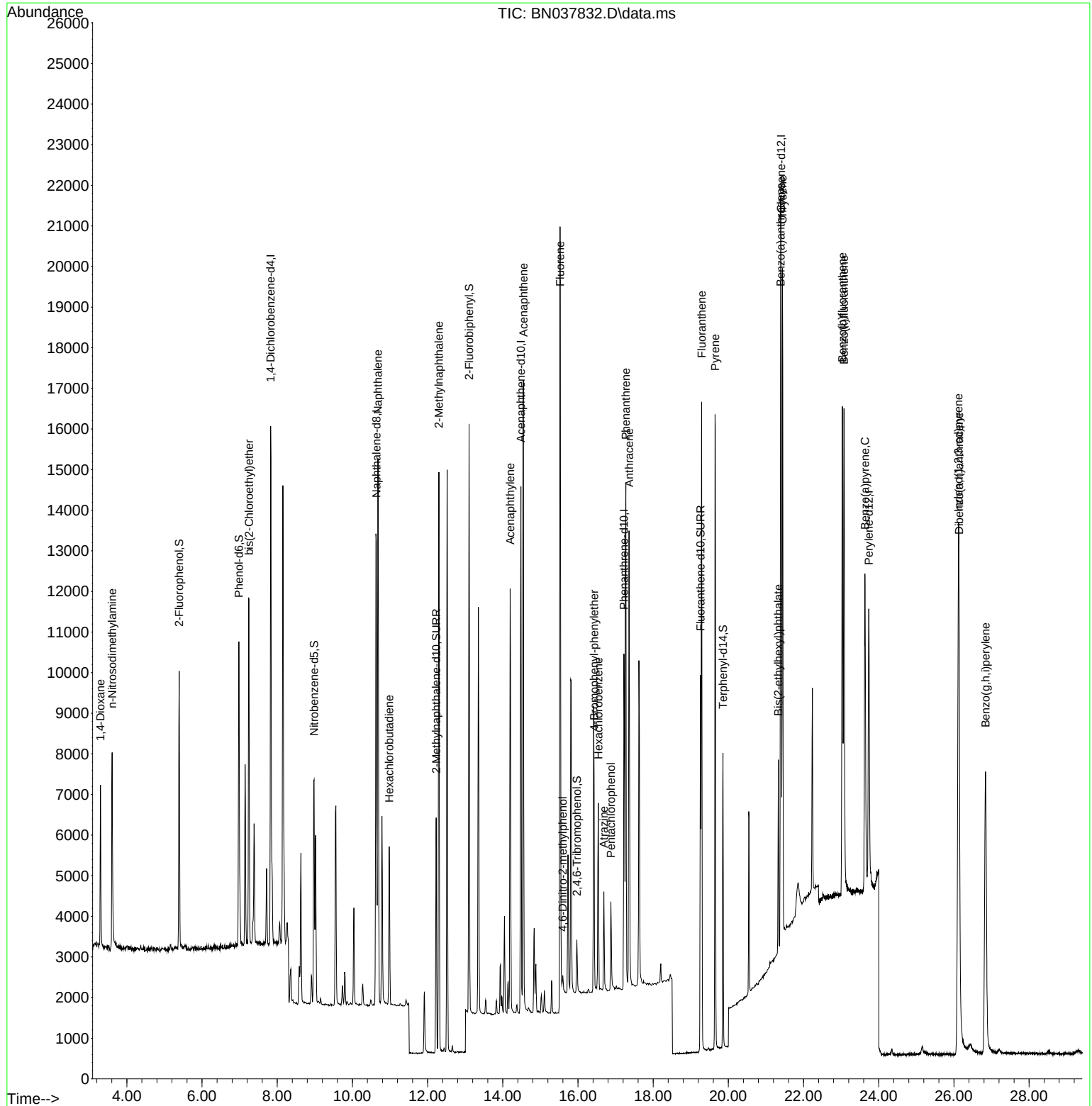
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6232	0.400	ng	-0.01
7) Naphthalene-d8	10.637	136	16500	0.400	ng	#-0.01
13) Acenaphthene-d10	14.484	164	7183	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11907	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	9777	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	10066	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5424	0.379	ng	0.00
5) Phenol-d6	6.980	99	6919	0.373	ng	0.00
8) Nitrobenzene-d5	8.982	82	4642	0.385	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	7736	0.354	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	801	0.428	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11968	0.398	ng	-0.01
27) Fluoranthene-d10	19.257	212	9903	0.331	ng	-0.01
31) Terphenyl-d14	19.856	244	6777	0.342	ng	-0.01
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.297	88	2495	0.384	ng	95
3) n-Nitrosodimethylamine	3.608	42	2977	0.351	ng	# 86
6) bis(2-Chloroethyl)ether	7.248	93	6444	0.389	ng	99
9) Naphthalene	10.680	128	17368	0.385	ng	99
10) Hexachlorobutadiene	10.979	225	3074	0.377	ng	# 100
12) 2-Methylnaphthalene	12.298	142	10342	0.371	ng	100
16) Acenaphthylene	14.195	152	12222	0.371	ng	99
17) Acenaphthene	14.548	154	8331	0.374	ng	97
18) Fluorene	15.522	166	9643	0.357	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	300	0.272	ng	# 66
21) 4-Bromophenyl-phenylether	16.429	248	3001	0.386	ng	97
22) Hexachlorobenzene	16.540	284	3776	0.423	ng	99
23) Atrazine	16.689	200	1825	0.369	ng	96
24) Pentachlorophenol	16.875	266	1159	0.447	ng	97
25) Phenanthrene	17.273	178	14378	0.384	ng	99
26) Anthracene	17.360	178	12209	0.368	ng	100
28) Fluoranthene	19.290	202	14335	0.349	ng	100
30) Pyrene	19.647	202	14225	0.372	ng	100
32) Benzo(a)anthracene	21.393	228	13107	0.384	ng	100
33) Chrysene	21.438	228	14113	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4249	0.420	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.118	276	18036	0.426	ng	100
37) Benzo(b)fluoranthene	23.031	252	15833	0.399	ng	# 95
38) Benzo(k)fluoranthene	23.078	252	15748	0.390	ng	# 95
39) Benzo(a)pyrene	23.633	252	12481	0.393	ng	# 93
40) Dibenzo(a,h)anthracene	26.136	278	14128	0.418	ng	97
41) Benzo(g,h,i)perylene	26.841	276	16240	0.429	ng	99

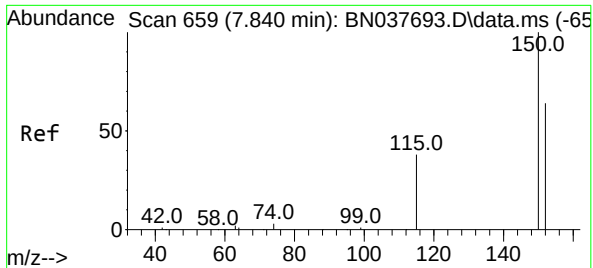
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

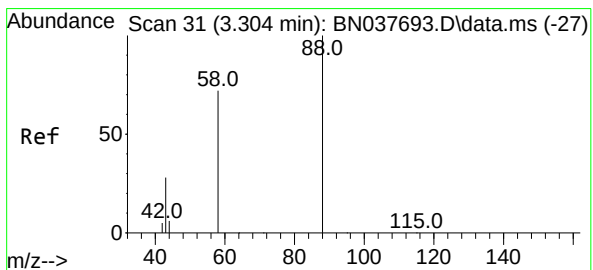
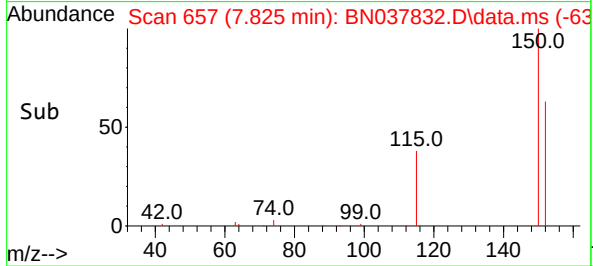
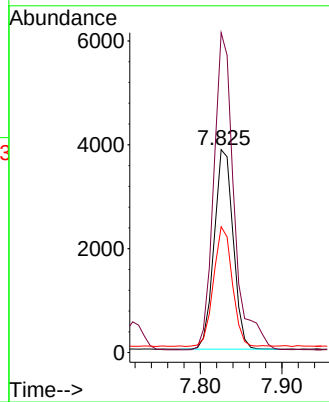
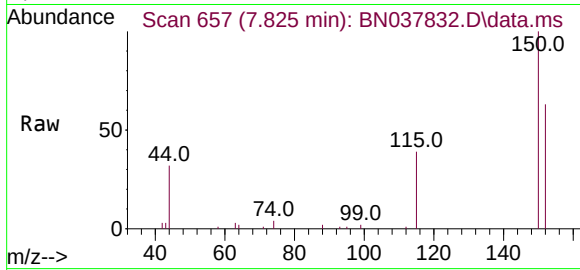




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

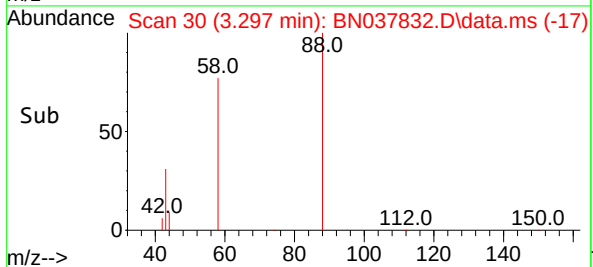
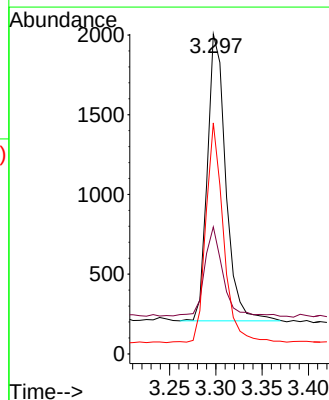
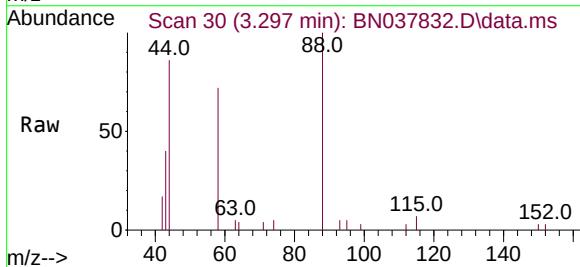
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

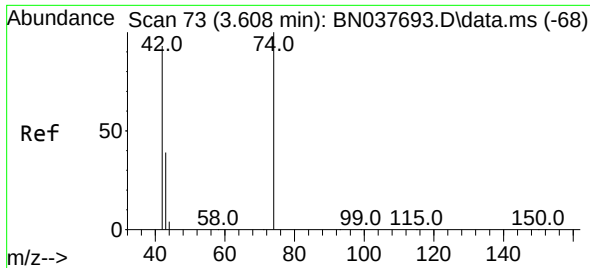
Tgt Ion:152 Resp: 6232
Ion Ratio Lower Upper
152 100
150 157.7 124.5 186.7
115 62.0 49.2 73.8



#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 88 Resp: 2495
Ion Ratio Lower Upper
88 100
43 30.4 26.8 40.2
58 73.1 61.9 92.9

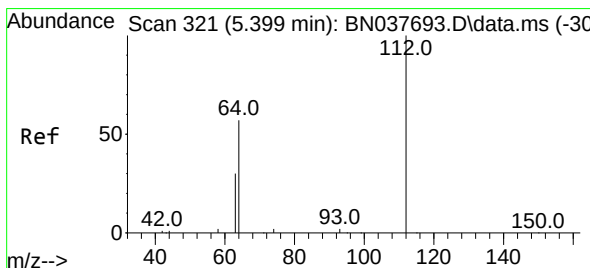
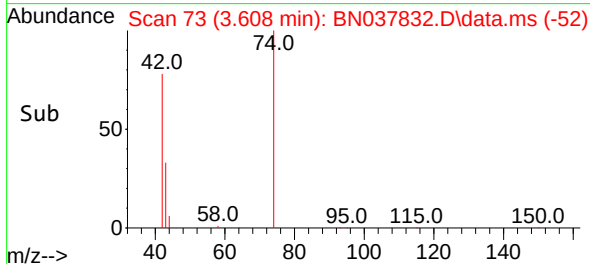
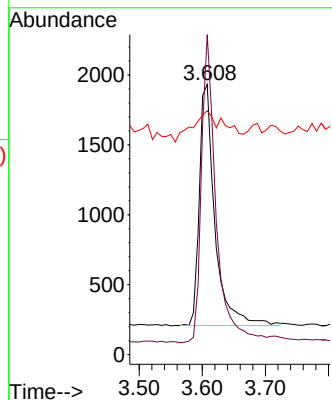
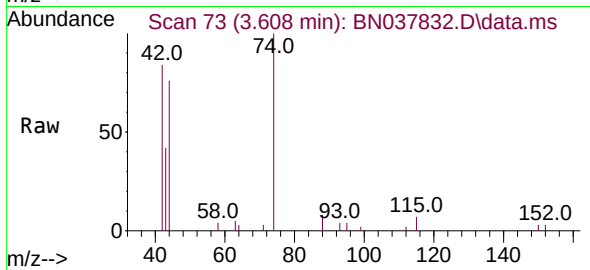




#3
n-Nitrosodimethylamine
Concen: 0.351 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

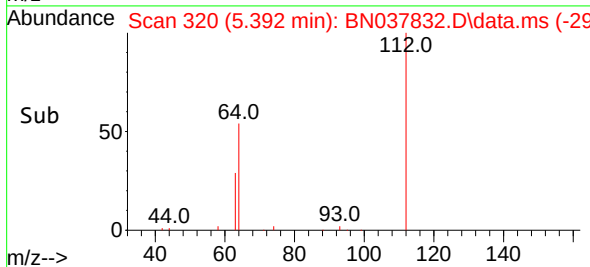
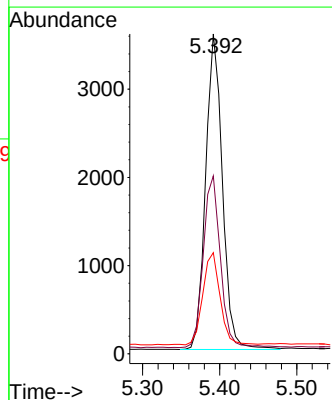
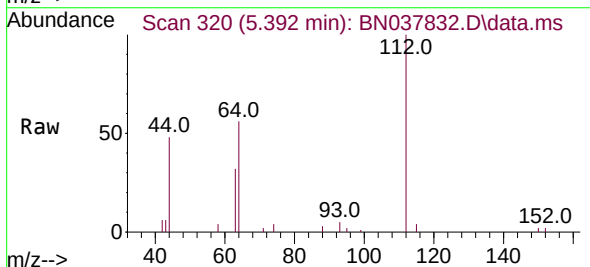
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

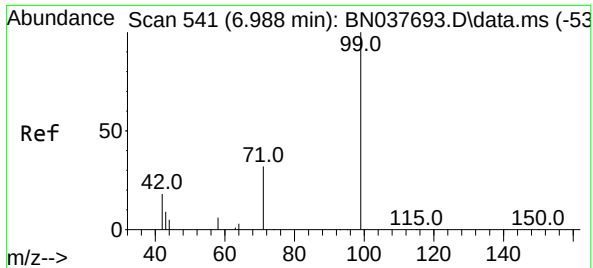
Tgt Ion: 42 Resp: 2977
Ion Ratio Lower Upper
42 100
74 119.4 86.0 129.0
44 26.8 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.392 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 112 Resp: 5424
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 29.8 24.7 37.1

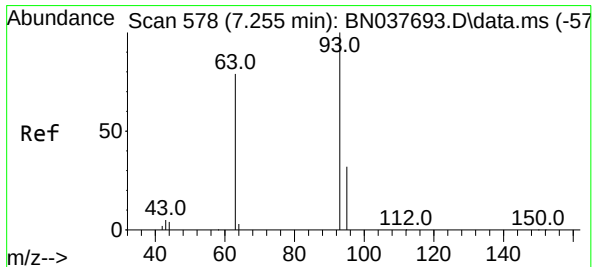
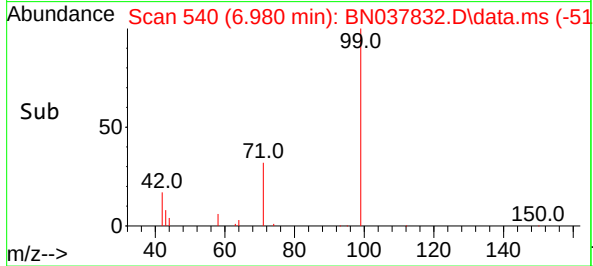
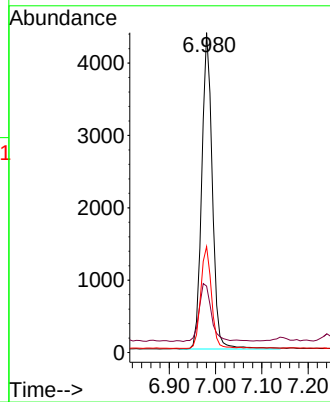
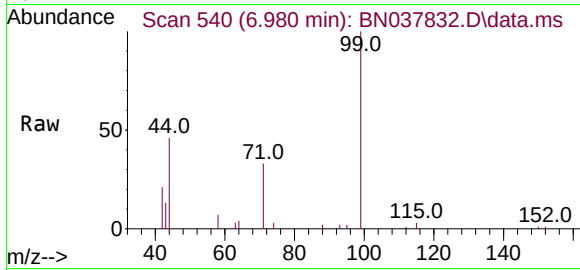




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

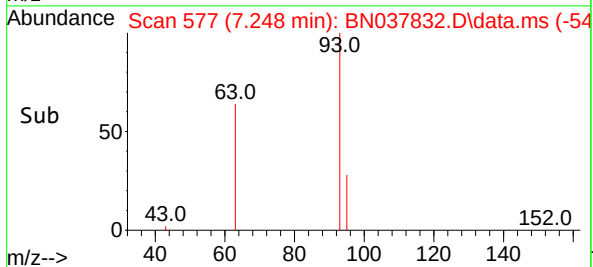
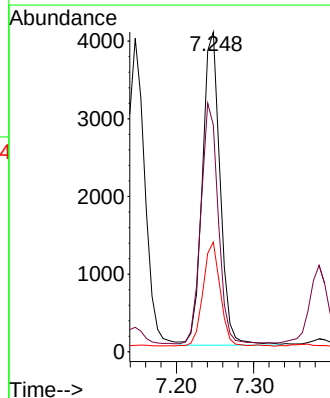
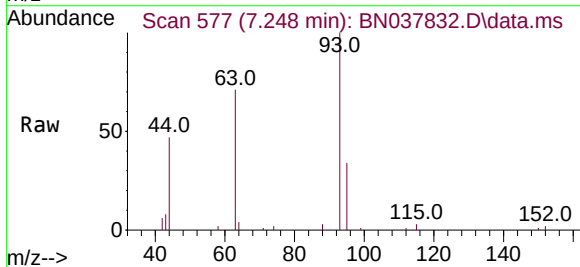
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BNA_N
ClientSampleId :
SSTDCCC0.4

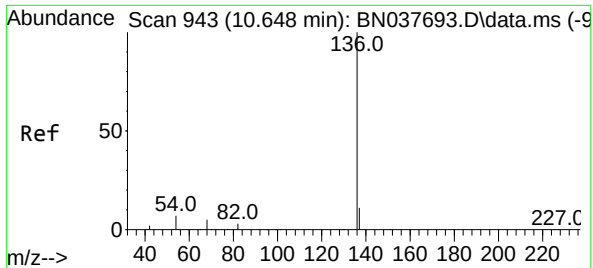
Tgt Ion: 99 Resp: 6919
Ion Ratio Lower Upper
99 100
42 21.0 16.6 24.8
71 33.0 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion: 93 Resp: 6444
Ion Ratio Lower Upper
93 100
63 75.0 60.6 90.8
95 32.4 26.0 39.0

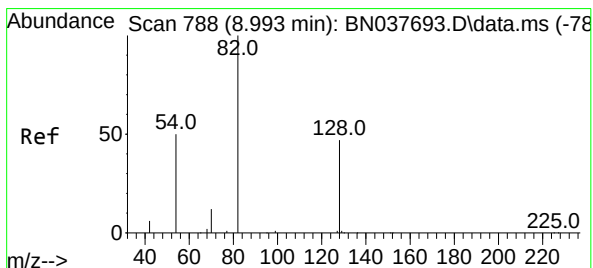
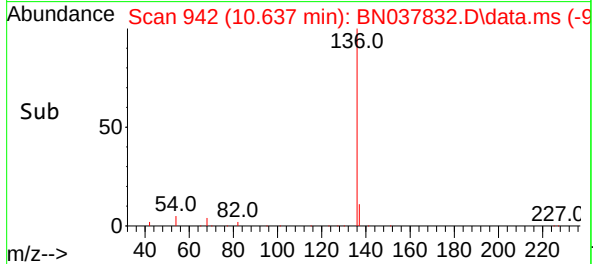
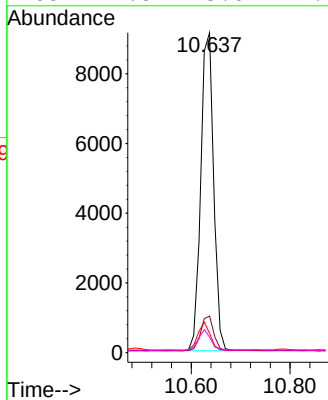
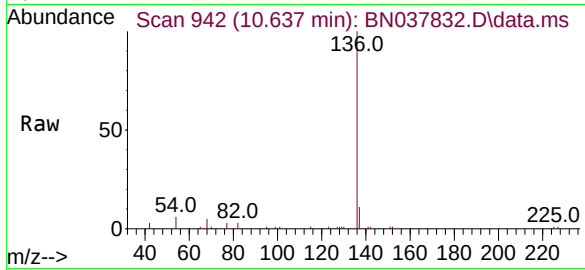




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

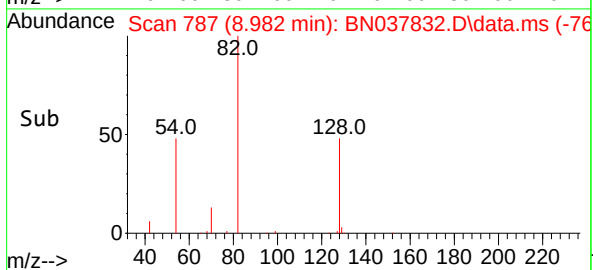
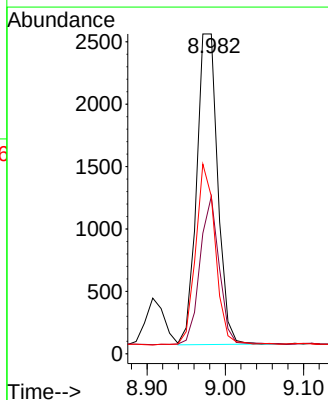
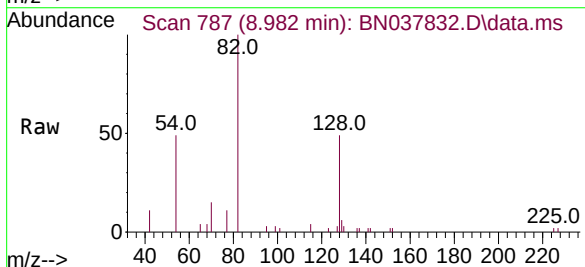
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

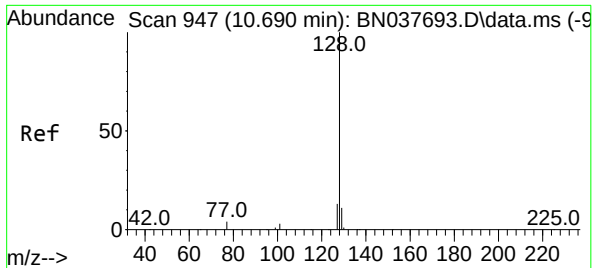
Tgt Ion:	136	Resp:	16500
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.1	13.7
54	6.0	6.3	9.5#
68	4.8	5.0	7.4#



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:	82	Resp:	4642
Ion Ratio	Lower	Upper	
82	100		
128	49.2	38.3	57.5
54	49.2	41.4	62.2

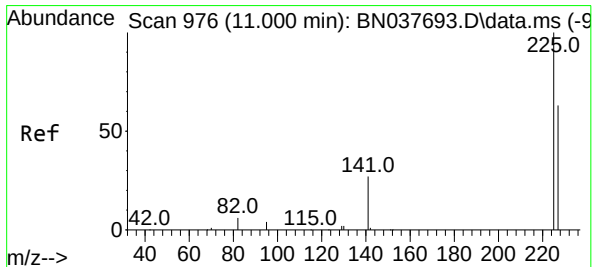
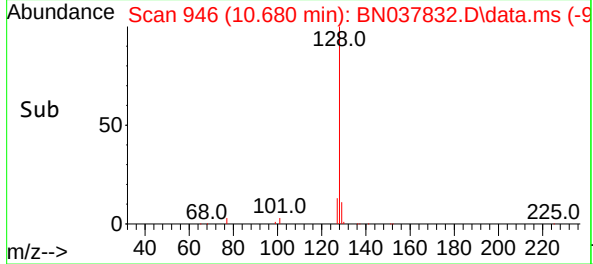
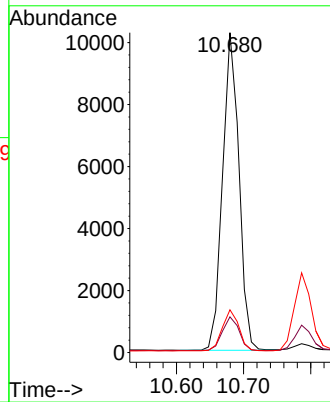
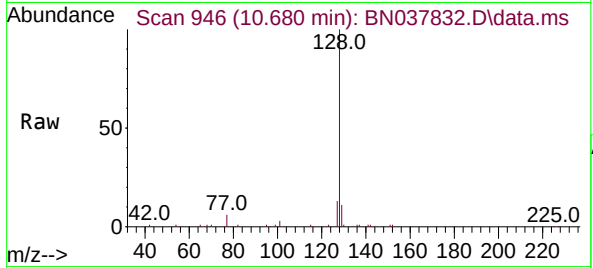




#9
Naphthalene
Concen: 0.385 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

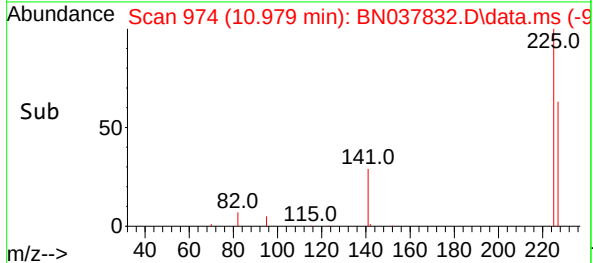
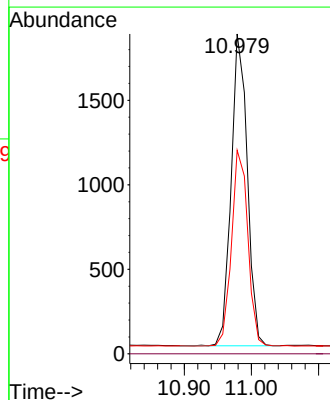
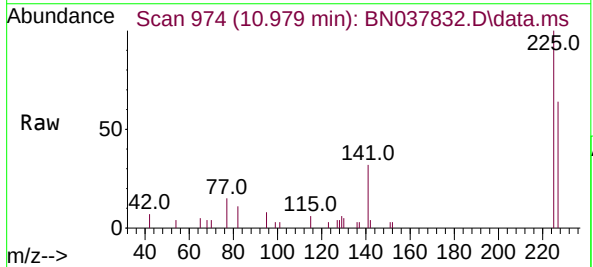
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

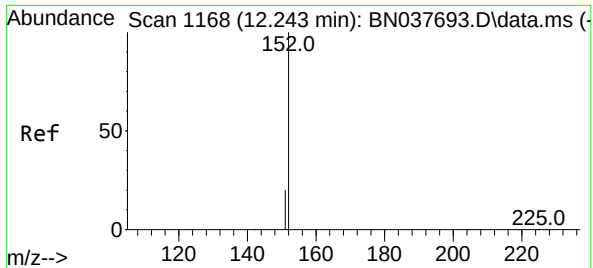
Tgt Ion:	128	Resp:	17368
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.4	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:	225	Resp:	3074
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.9	76.3

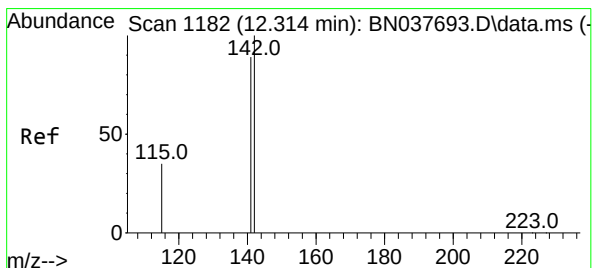
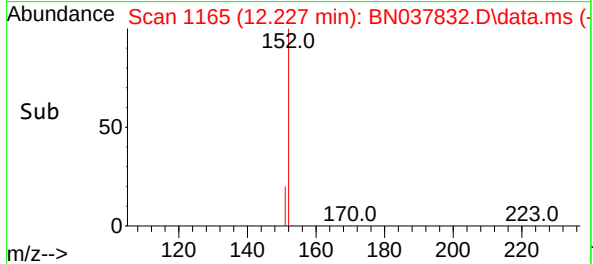
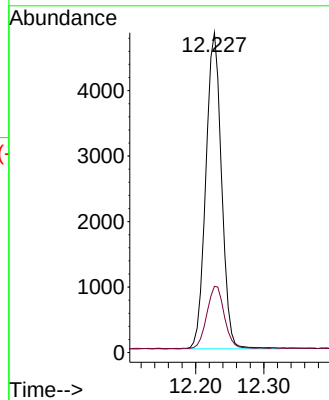
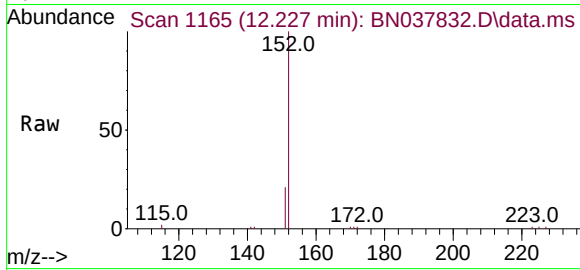




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

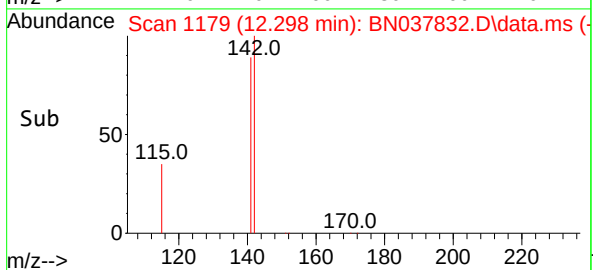
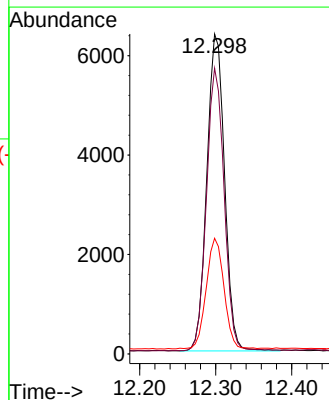
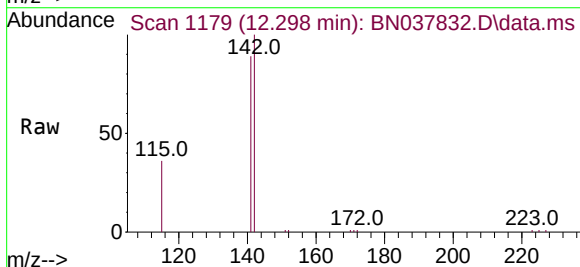
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

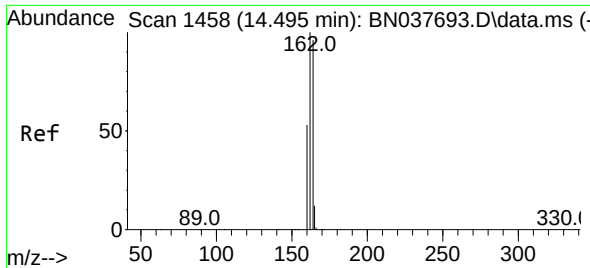
Tgt Ion:152 Resp: 7736
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:142 Resp: 10342
Ion Ratio Lower Upper
142 100
141 89.3 71.6 107.4
115 36.1 28.6 43.0

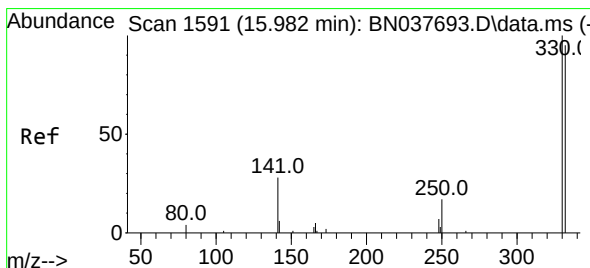
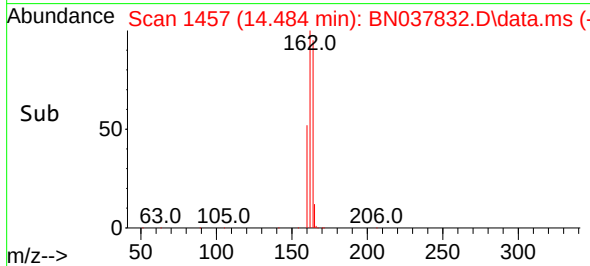
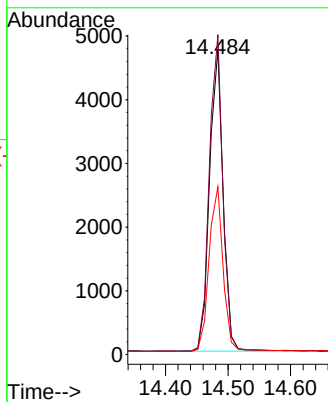
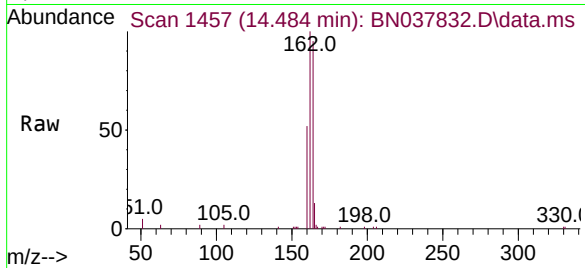




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

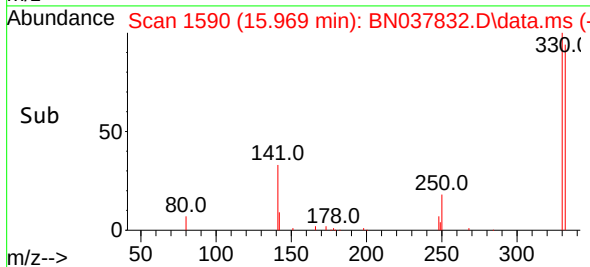
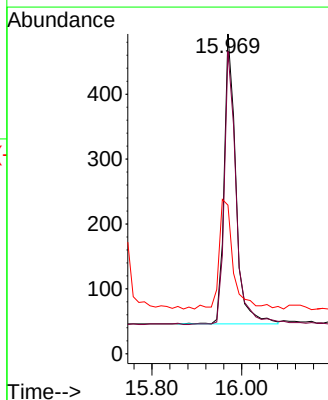
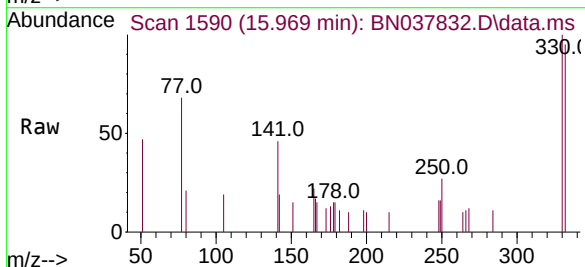
Instrument :
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ClientSampleId :
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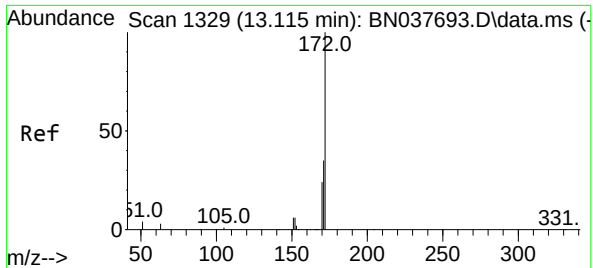
Tgt Ion:	164	Resp:	7183
Ion Ratio	Lower	Upper	
164	100		
162	104.8	83.1	124.7
160	54.9	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.428 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:	330	Resp:	801
Ion Ratio	Lower	Upper	
330	100		
332	96.4	75.3	112.9
141	46.8	35.0	52.4

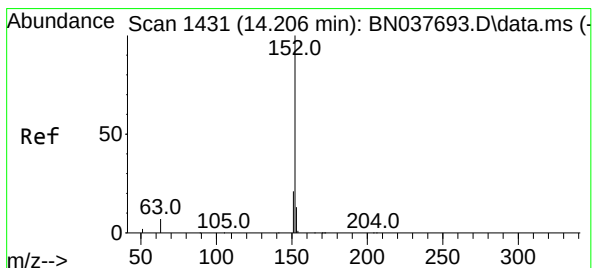
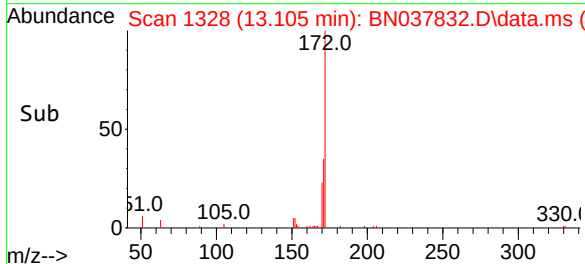
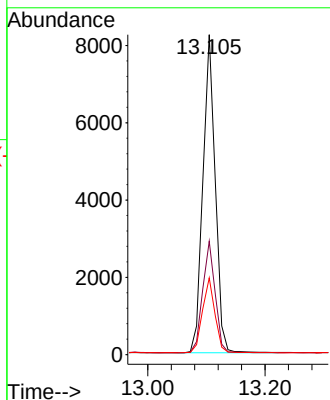
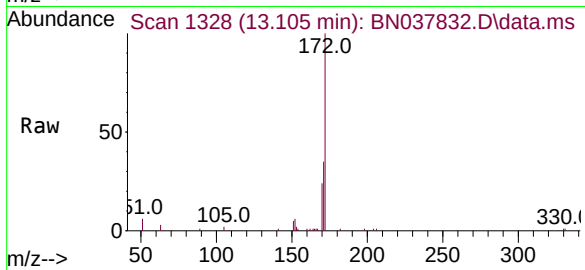




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

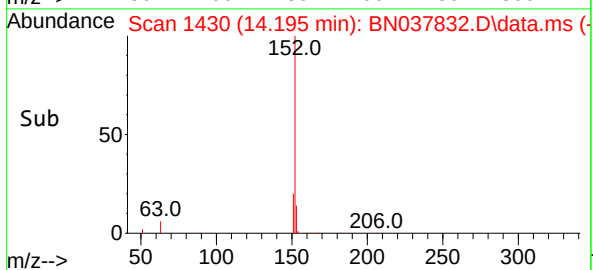
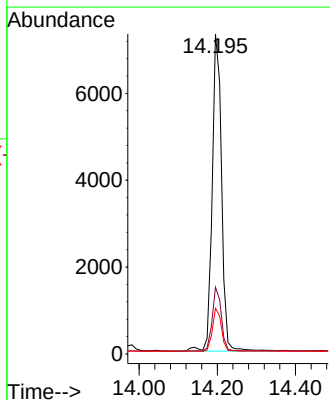
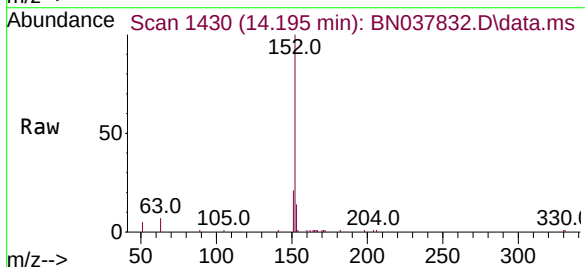
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

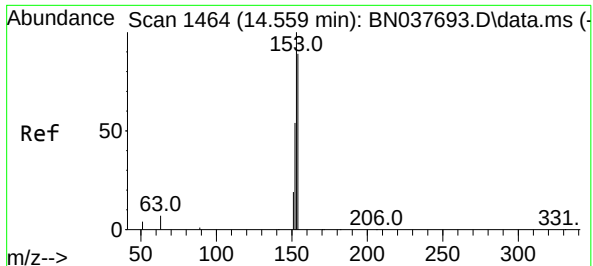
Tgt Ion:	172	Resp:	11968
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	43.0
170	24.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.371 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:	152	Resp:	12222
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.2	24.2
153	12.6	10.4	15.6

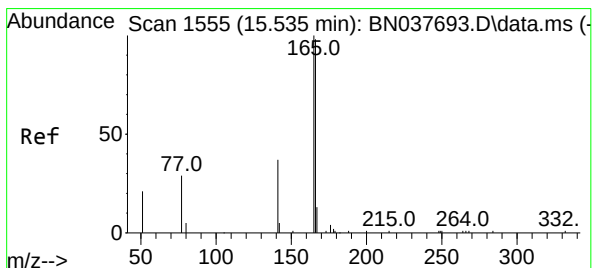
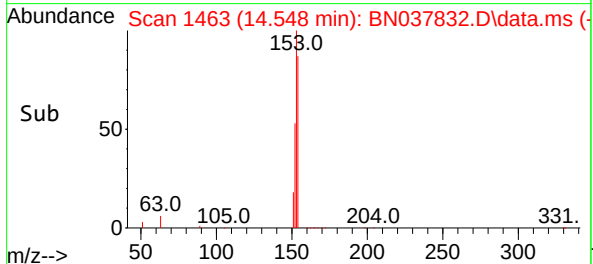
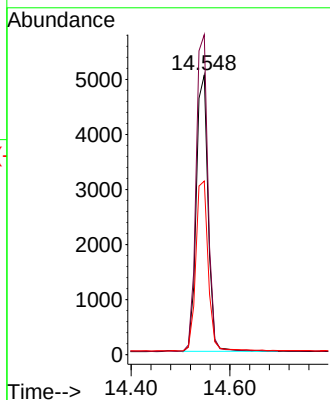
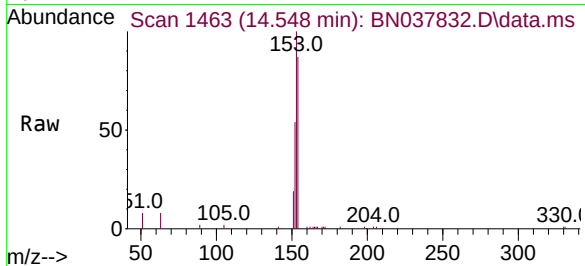




#17
Acenaphthene
Concen: 0.374 ng
RT: 14.548 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

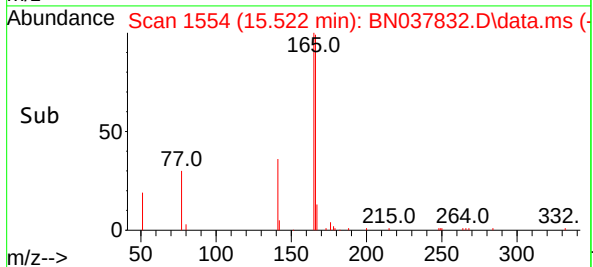
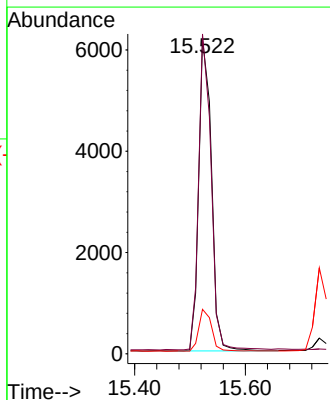
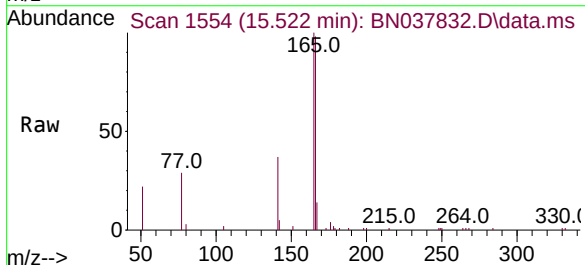
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

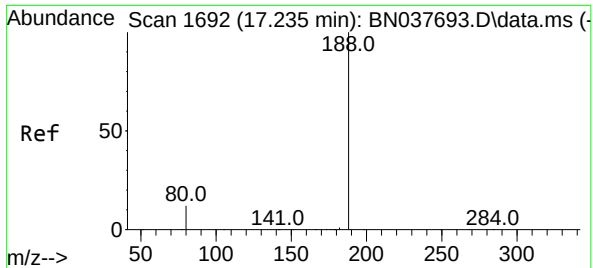
Tgt Ion:154 Resp: 8331
Ion Ratio Lower Upper
154 100
153 116.5 89.8 134.8
152 64.6 50.2 75.2



#18
Fluorene
Concen: 0.357 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:166 Resp: 9643
Ion Ratio Lower Upper
166 100
165 98.8 79.6 119.4
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 11

Delta R.T. -0.013 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

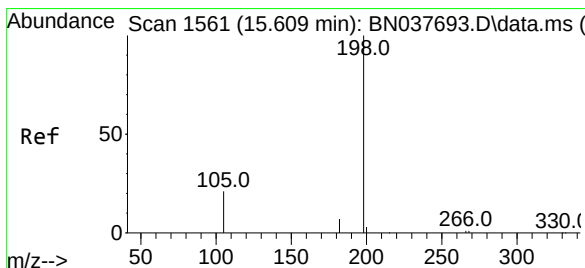
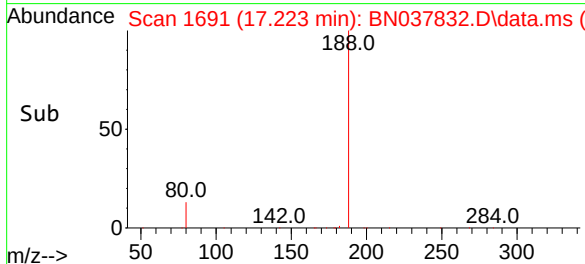
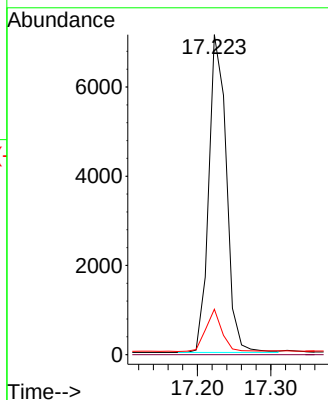
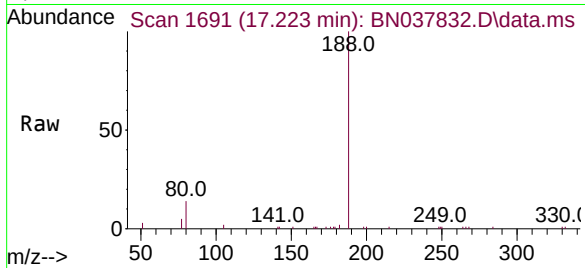
Tgt Ion:188 Resp: 11907

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.272 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

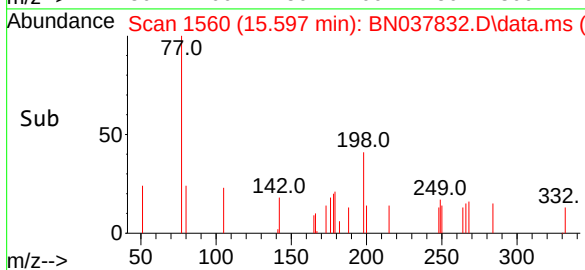
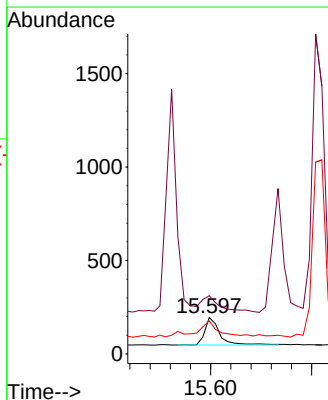
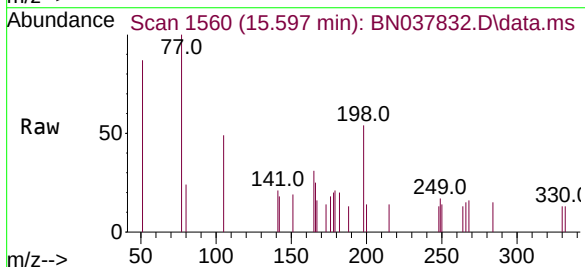
Tgt Ion:198 Resp: 300

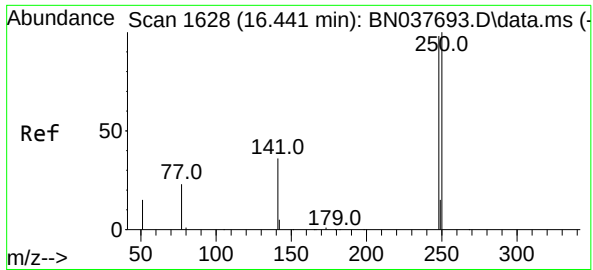
Ion Ratio Lower Upper

198 100

51 160.0 95.1 142.7#

105 90.8 53.8 80.6#

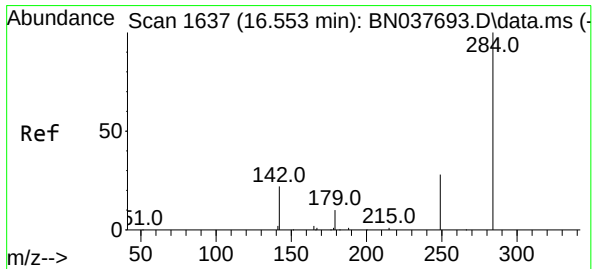
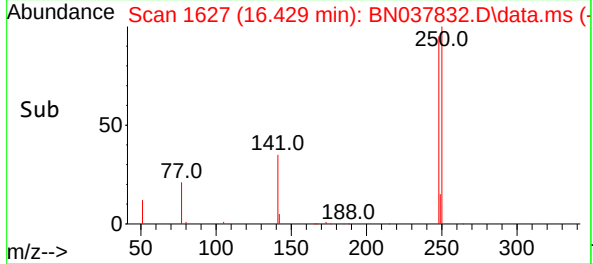
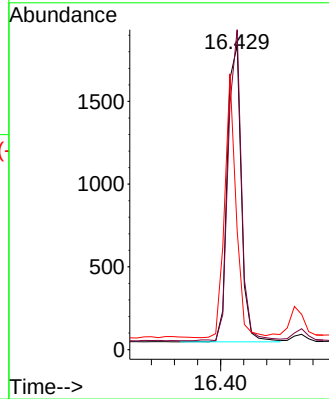
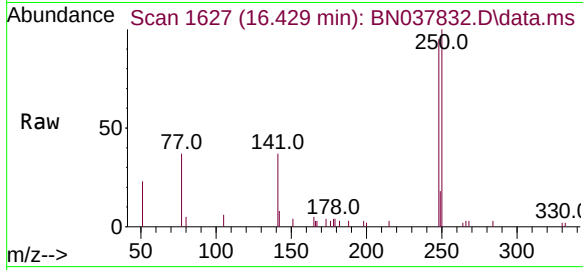




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

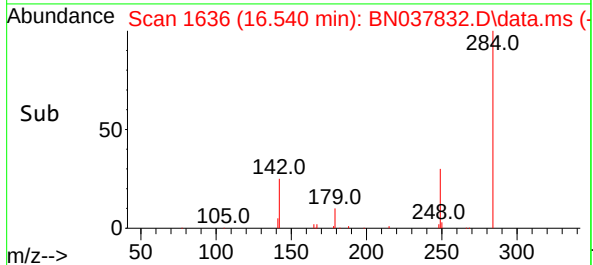
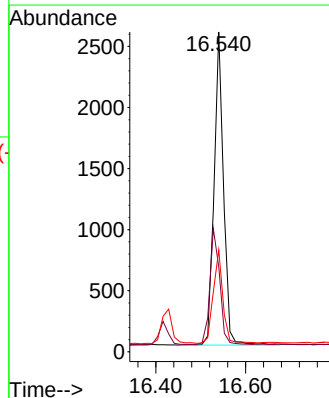
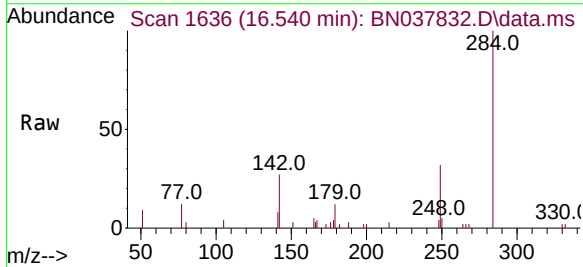
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

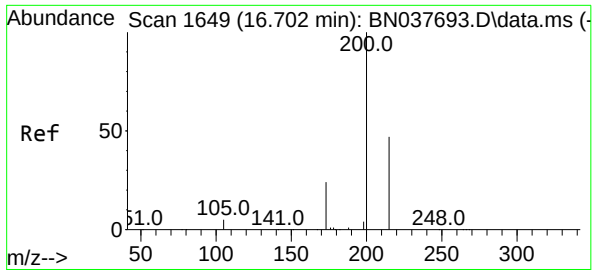
Tgt Ion:	248	Resp:	3001
Ion	Ratio	Lower	Upper
248	100		
250	105.2	81.5	122.3
141	39.2	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:	284	Resp:	3776
Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.9	46.3
249	30.2	24.8	37.2





#23

Atrazine

Concen: 0.369 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

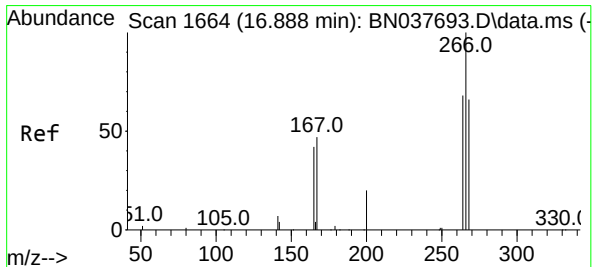
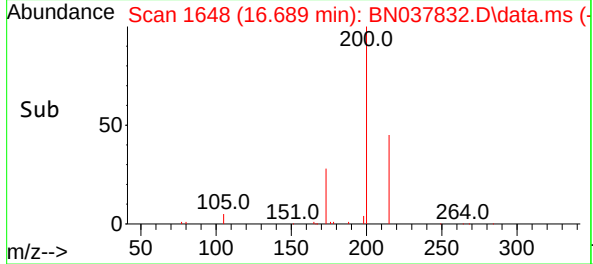
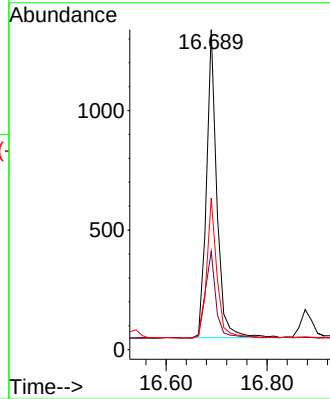
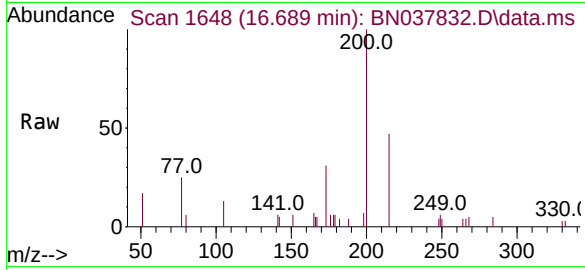
Tgt Ion:200 Resp: 1825

Ion Ratio Lower Upper

200 100

173 30.7 21.4 32.2

215 47.3 39.2 58.8



#24

Pentachlorophenol

Concen: 0.447 ng

RT: 16.875 min Scan# 1663

Delta R.T. -0.012 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

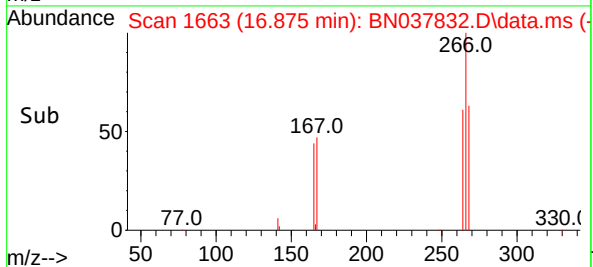
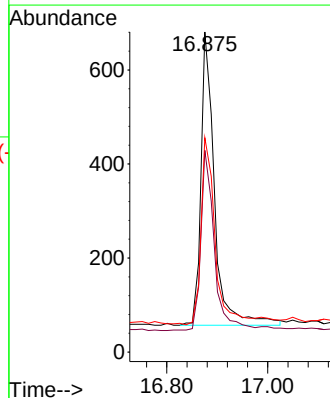
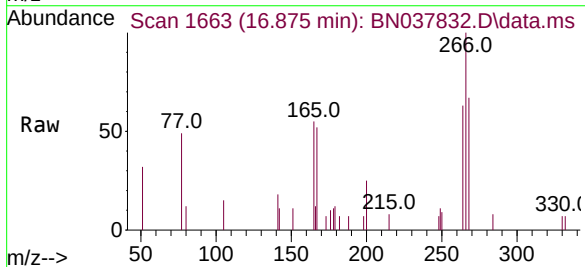
Tgt Ion:266 Resp: 1159

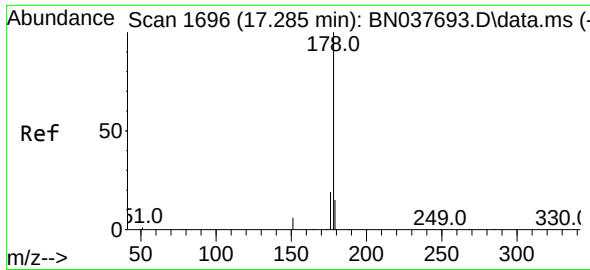
Ion Ratio Lower Upper

266 100

264 61.9 51.6 77.4

268 65.0 53.2 79.8

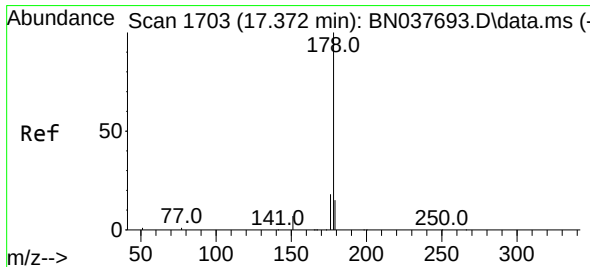
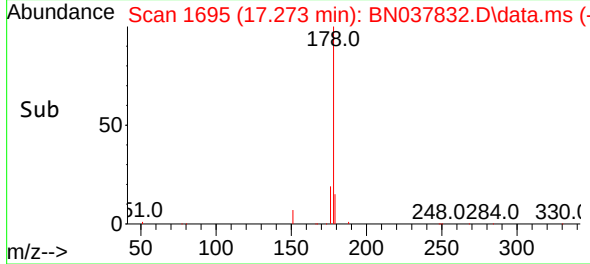
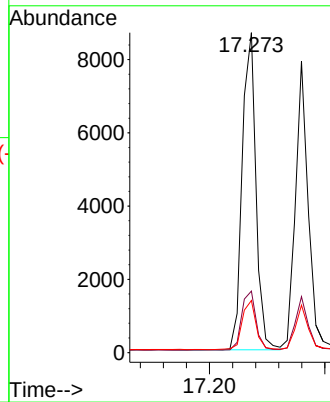
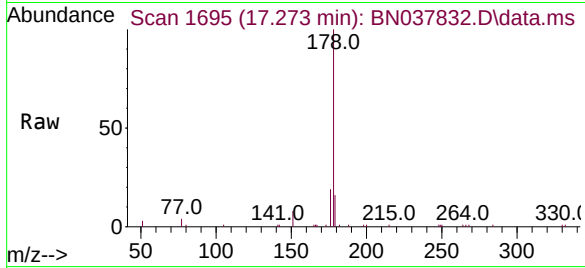




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.273 min Scan# 1696
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

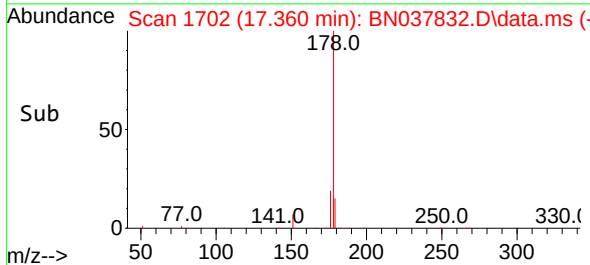
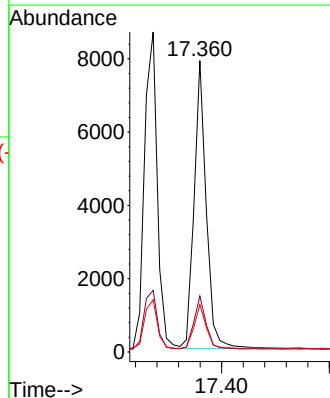
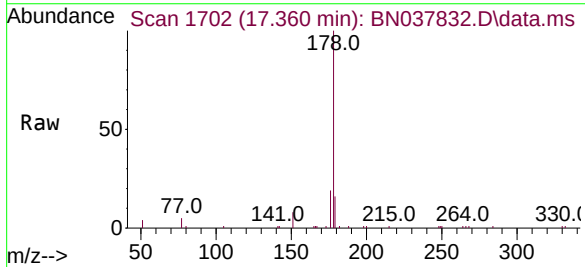
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

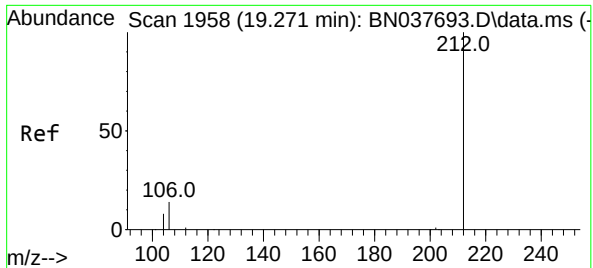
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.368 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.2	12.2	18.4

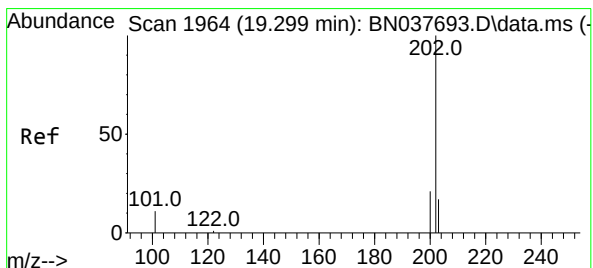
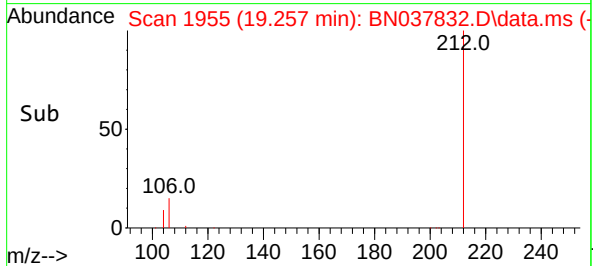
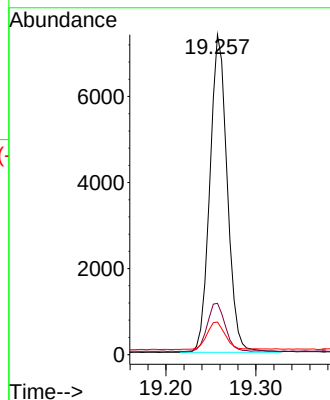
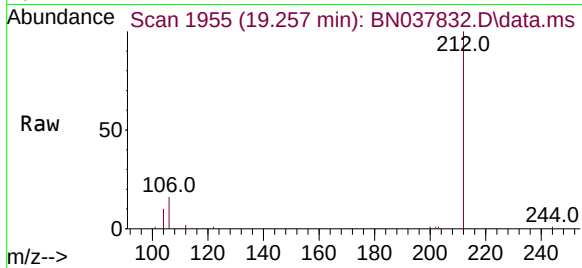




#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

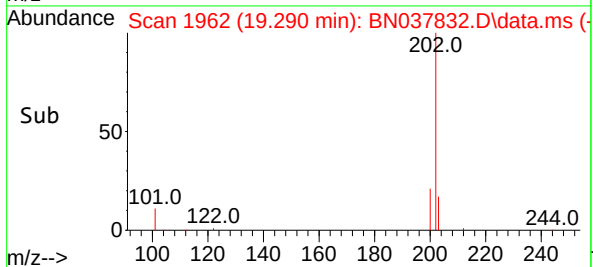
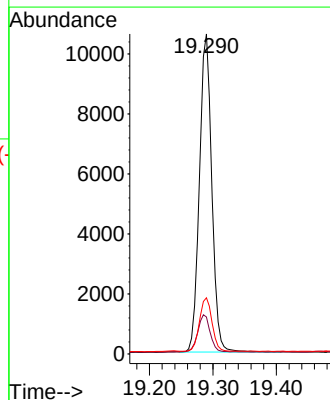
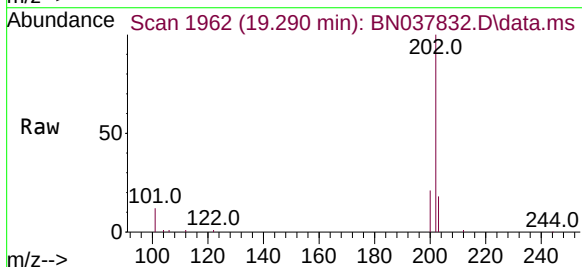
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

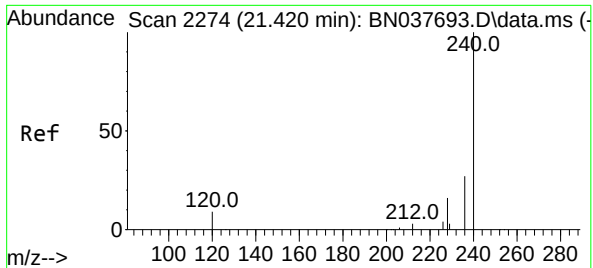
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.1	6.9	10.3



#28
Fluoranthene
Concen: 0.349 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.3	13.9
203	17.1	13.7	20.5

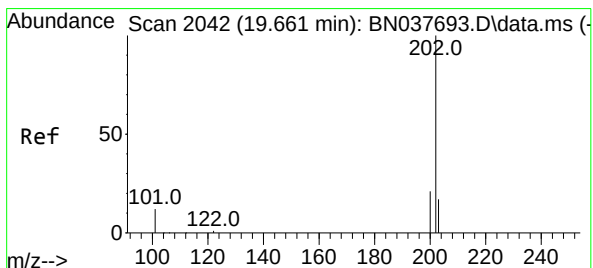
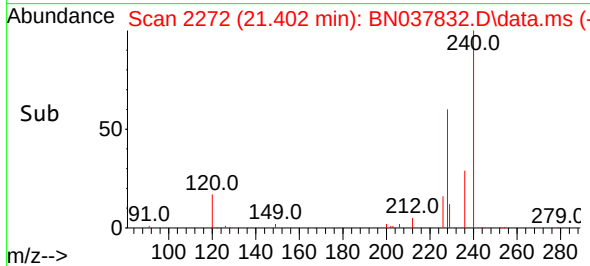
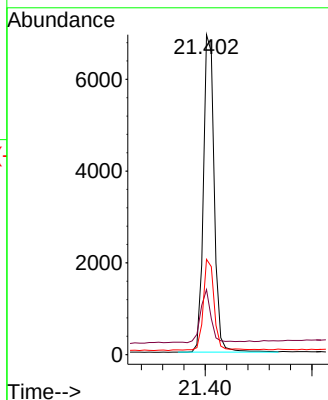
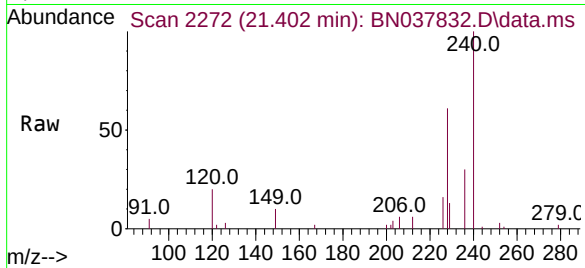




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

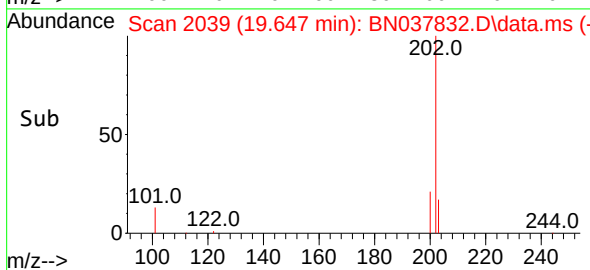
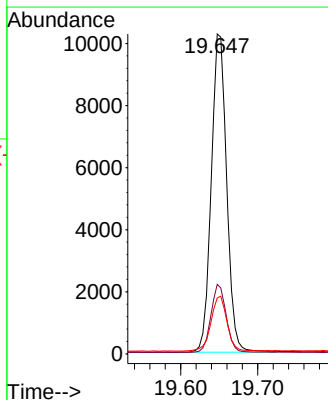
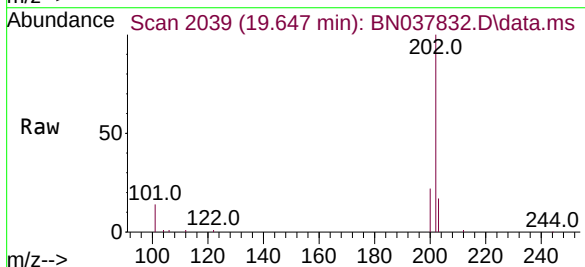
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

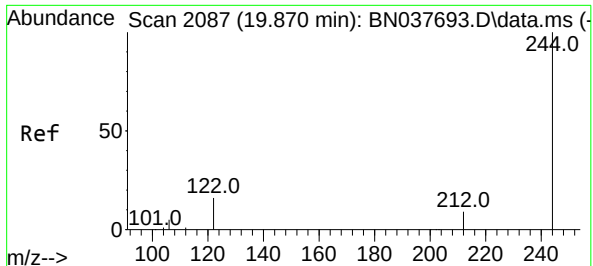
Tgt Ion:240 Resp: 9777
Ion Ratio Lower Upper
240 100
120 20.3 9.2 13.8#
236 29.8 22.6 33.8



#30
Pyrene
Concen: 0.372 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:202 Resp: 14225
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.9 14.3 21.5

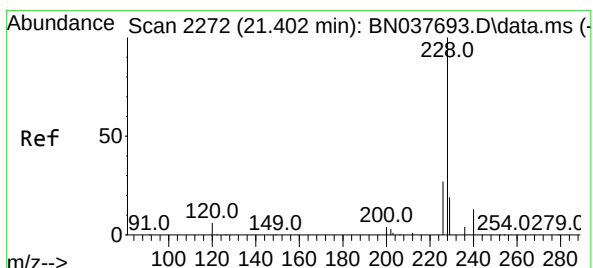
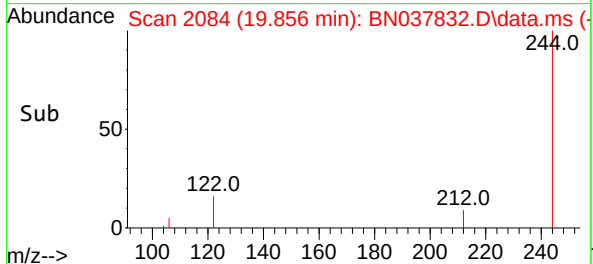
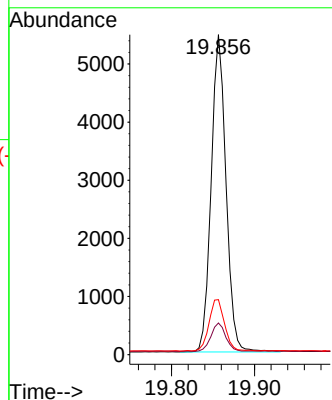
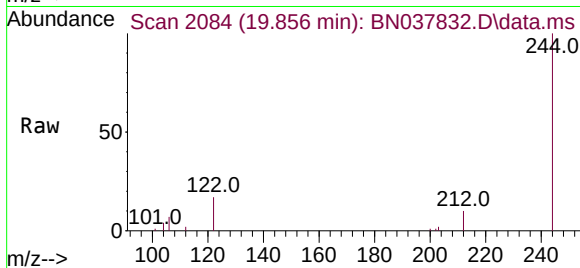




#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

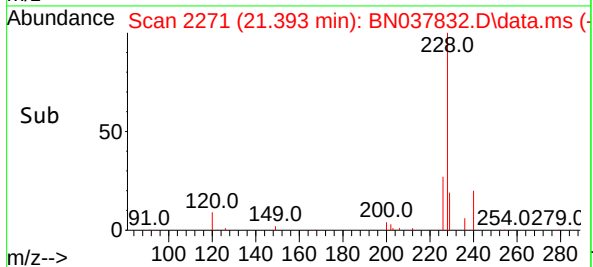
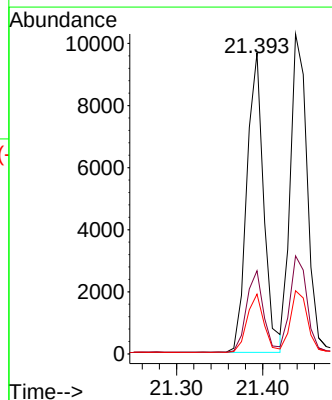
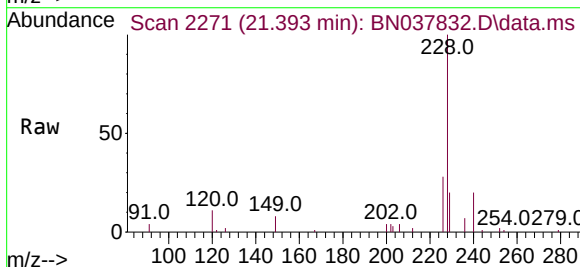
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

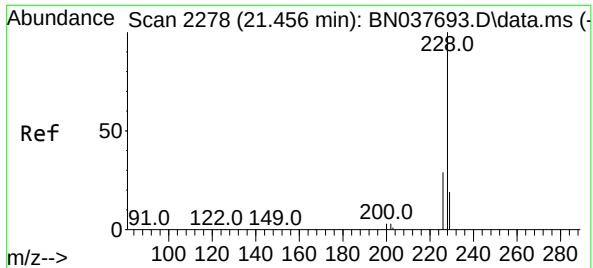
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.5	11.3
122	17.2	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.2
229	19.9	15.8	23.6

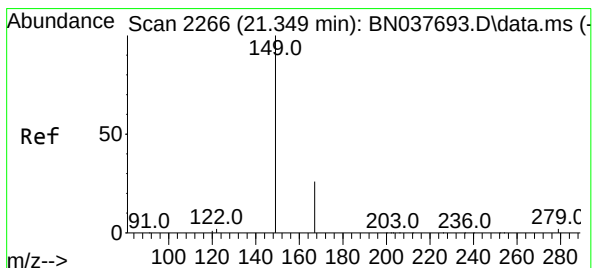
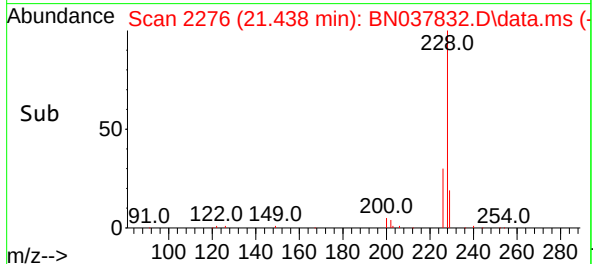
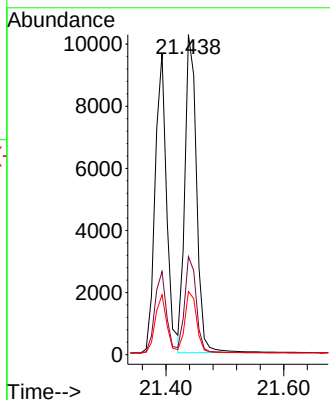
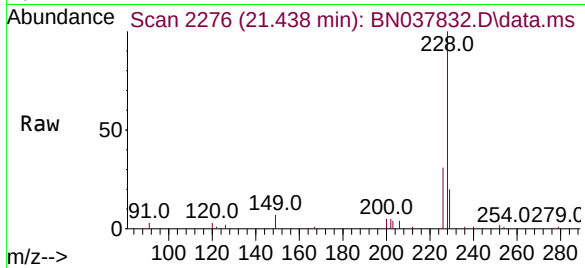




#33
Chrysene
Concen: 0.386 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

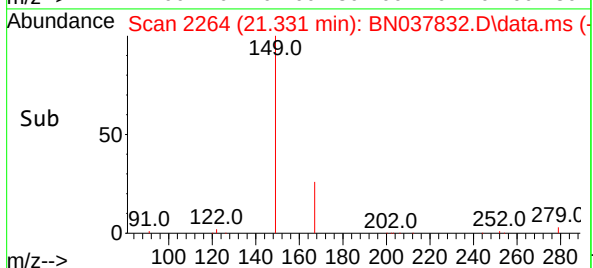
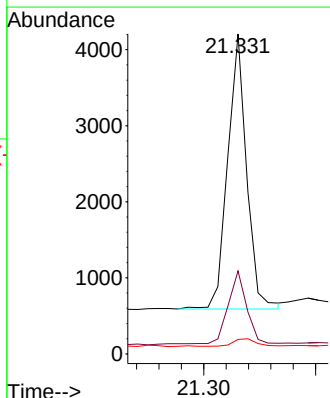
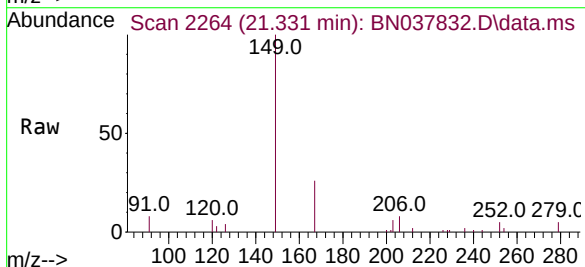
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

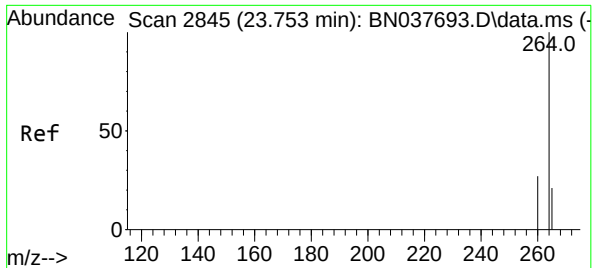
Tgt Ion:228	Resp:	14113
Ion Ratio	Lower	Upper
228	100	
226	30.6	23.5 35.3
229	19.7	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

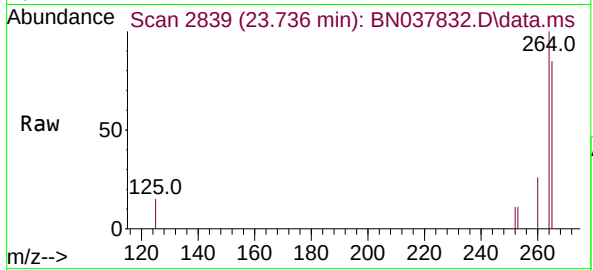
Tgt Ion:149	Resp:	4249
Ion Ratio	Lower	Upper
149	100	
167	25.7	20.8 31.2
279	3.2	3.3 4.9#



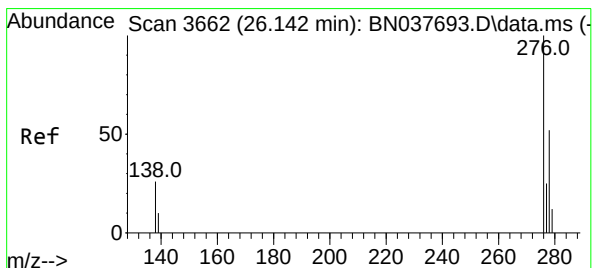
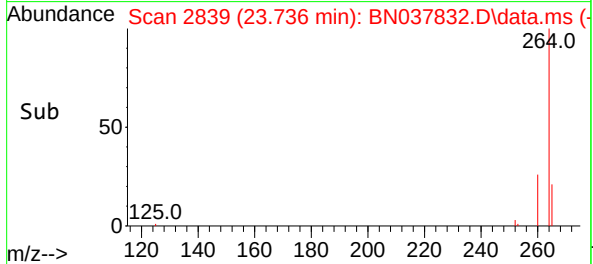
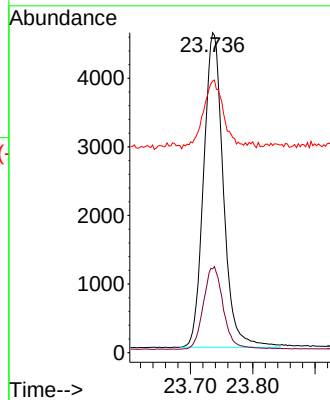


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2845
Delta R.T. -0.018 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

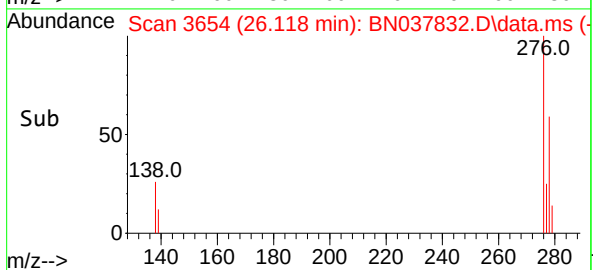
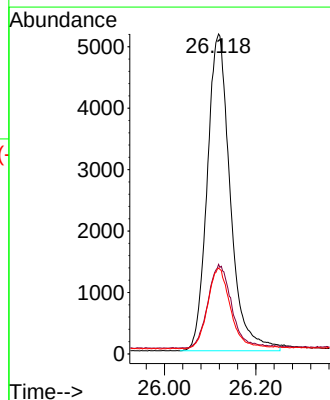
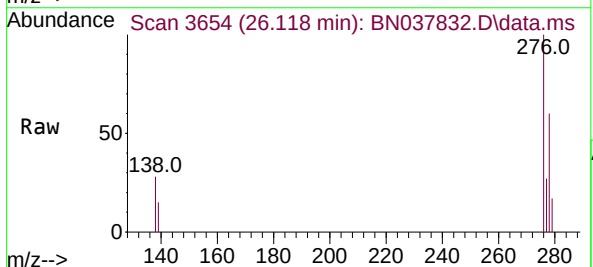


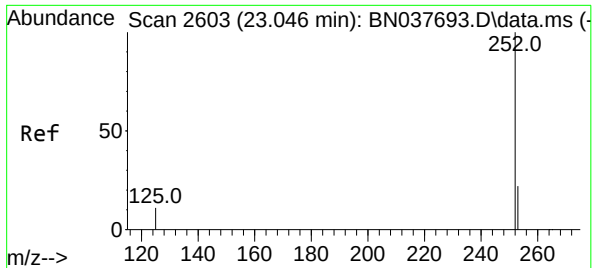
Tgt Ion:264 Resp: 10066
Ion Ratio Lower Upper
264 100
260 26.2 21.8 32.8
265 84.9 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037832.D
Acq: 20 Sep 2025 02:35

Tgt Ion:276 Resp: 18036
Ion Ratio Lower Upper
276 100
138 27.1 21.9 32.9
277 25.3 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.399 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

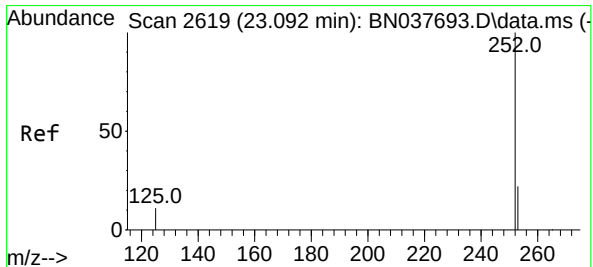
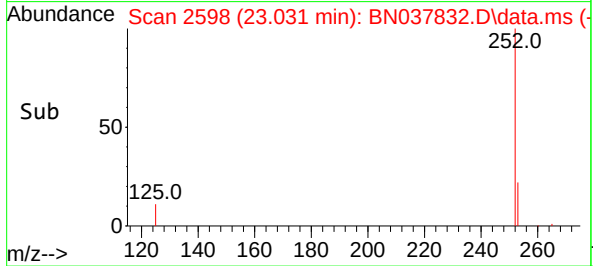
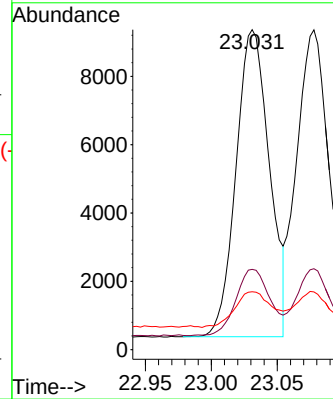
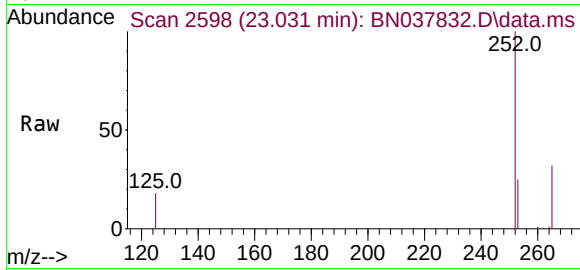
Tgt Ion:252 Resp: 15833

Ion Ratio Lower Upper

252 100

253 25.1 19.4 29.2

125 18.1 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.390 ng

RT: 23.078 min Scan# 2614

Delta R.T. -0.015 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

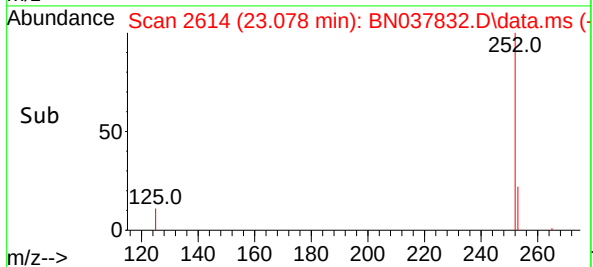
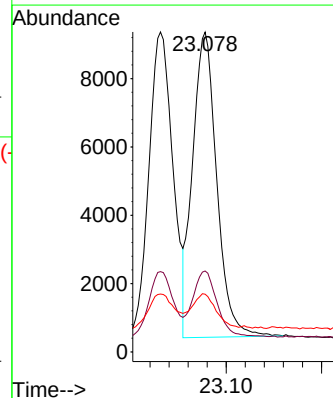
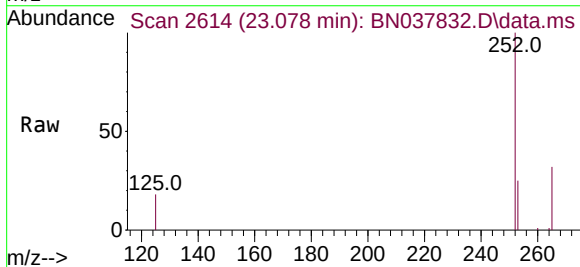
Tgt Ion:252 Resp: 15748

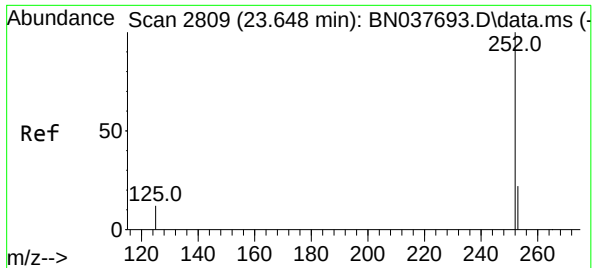
Ion Ratio Lower Upper

252 100

253 25.3 19.4 29.0

125 18.0 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.633 min Scan# 2804

Delta R.T. -0.015 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

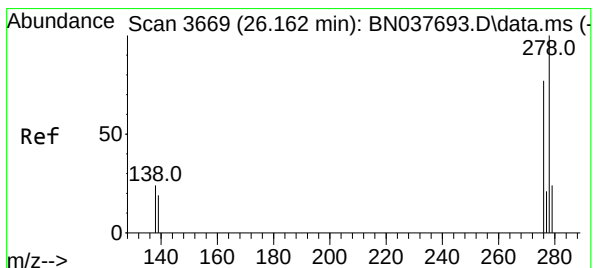
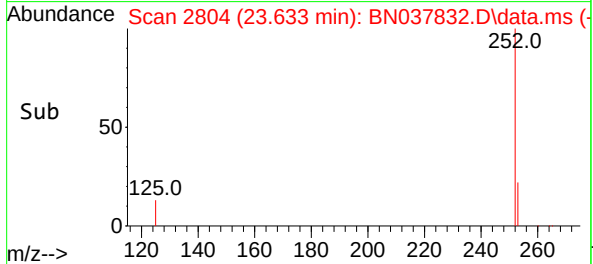
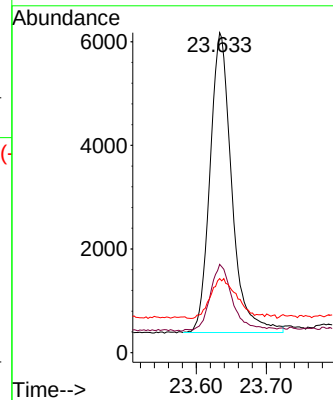
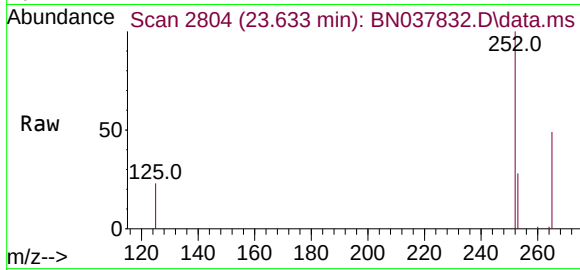
Tgt Ion:252 Resp: 12481

Ion Ratio Lower Upper

252 100

253 27.6 20.8 31.2

125 23.1 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.418 ng

RT: 26.136 min Scan# 3660

Delta R.T. -0.026 min

Lab File: BN037832.D

Acq: 20 Sep 2025 02:35

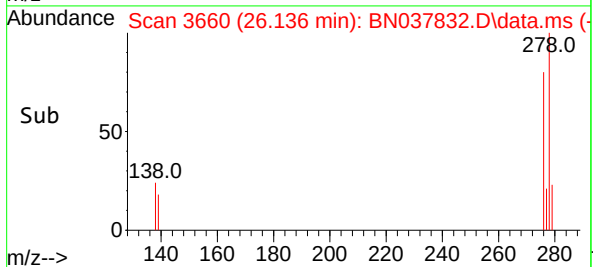
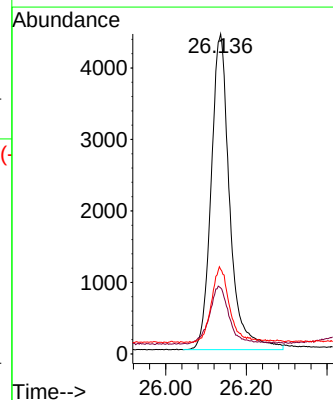
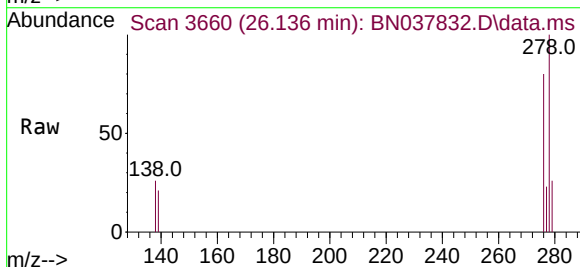
Tgt Ion:278 Resp: 14128

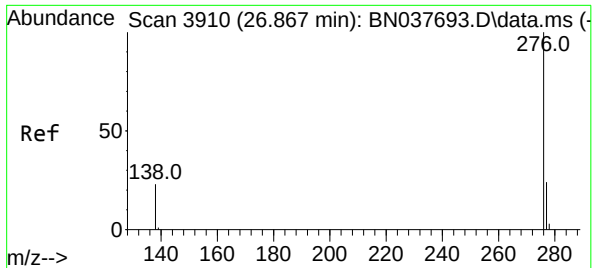
Ion Ratio Lower Upper

278 100

139 20.6 17.8 26.6

279 26.4 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.429 ng

RT: 26.841 min Scan# 3910

Delta R.T. -0.026 min

Lab File: BN037832.D

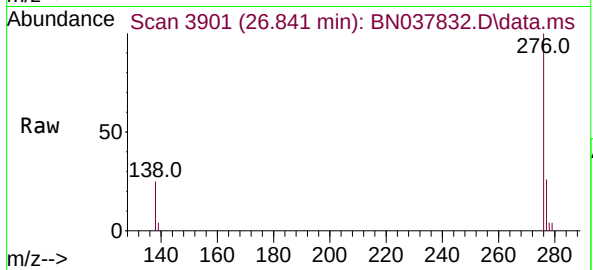
Acq: 20 Sep 2025 02:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



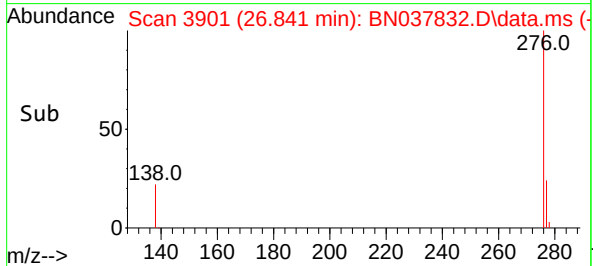
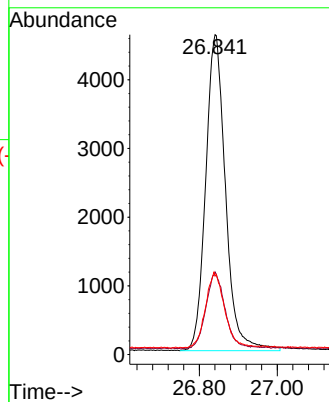
Tgt Ion:276 Resp: 16240

Ion Ratio Lower Upper

276 100

277 25.8 20.6 31.0

138 24.5 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	125	-0.01
2	1,4-Dioxane	0.417	0.400	4.1	118	0.00
3	n-Nitrosodimethylamine	0.544	0.478	12.1	106	0.00
4 S	2-Fluorophenol	0.918	0.870	5.2	122	0.00
5 S	Phenol-d6	1.191	1.110	6.8	120	0.00
6	bis(2-Chloroethyl)ether	1.064	1.034	2.8	121	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.293	0.281	4.1	123	-0.01
9	Naphthalene	1.093	1.053	3.7	122	-0.01
10	Hexachlorobutadiene	0.198	0.186	6.1	118	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.469	11.5	117	-0.02
12	2-Methylnaphthalene	0.676	0.627	7.2	118	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.112	-7.7	128	-0.01
15 S	2-Fluorobiphenyl	1.673	1.666	0.4	117	-0.01
16	Acenaphthylene	1.834	1.702	7.2	110	-0.01
17	Acenaphthene	1.240	1.160	6.5	110	-0.01
18	Fluorene	1.502	1.342	10.7	108	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.025	32.4#	81	-0.01
21	4-Bromophenyl-phenylether	0.261	0.252	3.4	106	-0.01
22	Hexachlorobenzene	0.300	0.317	-5.7	114	-0.01
23	Atrazine	0.166	0.153	7.8	107	-0.01
24	Pentachlorophenol	0.087	0.097	-11.5	138	-0.01
25	Phenanthrene	1.259	1.208	4.1	104	-0.01
26	Anthracene	1.116	1.025	8.2	101	-0.01
27 SURR	Fluoranthene-d10	1.004	0.832	17.1	94	-0.01
28	Fluoranthene	1.381	1.204	12.8	97	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30	Pyrene	1.566	1.455	7.1	98	-0.01
31 S	Terphenyl-d14	0.812	0.693	14.7	90	-0.01
32	Benzo(a)anthracene	1.395	1.341	3.9	104	0.00
33	Chrysene	1.496	1.443	3.5	101	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.435	-5.1	121	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	112	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.792	-6.6	130	-0.02
37	Benzo(b)fluoranthene	1.575	1.573	0.1	114	-0.01
38	Benzo(k)fluoranthene	1.606	1.564	2.6	115	-0.01
39 C	Benzo(a)pyrene	1.261	1.240	1.7	116	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.404	-4.6	130	-0.03
41	Benzo(g,h,i)perylene	1.506	1.613	-7.1	125	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037832.D
Acq On : 20 Sep 2025 02:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 20 04:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	125	-0.01
2	1,4-Dioxane	0.400	0.384	4.0	118	0.00
3	n-Nitrosodimethylamine	0.400	0.351	12.3	106	0.00
4 S	2-Fluorophenol	0.400	0.379	5.3	122	0.00
5 S	Phenol-d6	0.400	0.373	6.8	120	0.00
6	bis(2-Chloroethyl)ether	0.400	0.389	2.8	121	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.400	0.385	3.8	123	-0.01
9	Naphthalene	0.400	0.385	3.8	122	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	118	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	117	-0.02
12	2-Methylnaphthalene	0.400	0.371	7.3	118	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	116	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.428	-7.0	128	-0.01
15 S	2-Fluorobiphenyl	0.400	0.398	0.5	117	-0.01
16	Acenaphthylene	0.400	0.371	7.3	110	-0.01
17	Acenaphthene	0.400	0.374	6.5	110	-0.01
18	Fluorene	0.400	0.357	10.8	108	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	106	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.272	32.0#	81	-0.01
21	4-Bromophenyl-phenylether	0.400	0.386	3.5	106	-0.01
22	Hexachlorobenzene	0.400	0.423	-5.7	114	-0.01
23	Atrazine	0.400	0.369	7.8	107	-0.01
24	Pentachlorophenol	0.400	0.447	-11.7	138	-0.01
25	Phenanthrene	0.400	0.384	4.0	104	-0.01
26	Anthracene	0.400	0.368	8.0	101	-0.01
27 SURR	Fluoranthene-d10	0.400	0.331	17.3	94	-0.01
28	Fluoranthene	0.400	0.349	12.8	97	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30	Pyrene	0.400	0.372	7.0	98	-0.01
31 S	Terphenyl-d14	0.400	0.342	14.5	90	-0.01
32	Benzo(a)anthracene	0.400	0.384	4.0	104	0.00
33	Chrysene	0.400	0.386	3.5	101	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.420	-5.0	121	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	112	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.426	-6.5	130	-0.02
37	Benzo(b)fluoranthene	0.400	0.399	0.3	114	-0.01
38	Benzo(k)fluoranthene	0.400	0.390	2.5	115	-0.01
39 C	Benzo(a)pyrene	0.400	0.393	1.8	116	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.418	-4.5	130	-0.03
41	Benzo(g,h,i)perylene	0.400	0.429	-7.2	125	-0.03

(#) = 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:	<u>Alliance</u>	Contract:	<u>AECO15</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3097</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>09/20/2025 11:39</u>
Lab File ID:	<u>BN037847.D</u>	Init. Calib. Date(s):	<u>09/11/2025 09/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>09:56 13:33</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.470		-11.3	50.0
Fluoranthene-d10	1.004	0.915		-8.9	50.0
2-Fluorophenol	0.918	0.876		-4.6	50.0
Phenol-d6	1.191	1.109		-6.9	50.0
Nitrobenzene-d5	0.293	0.288		-1.7	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.123		18.3	50.0
Terphenyl-d14	0.812	0.706		-13.1	50.0
1,4-Dioxane	0.417	0.423		1.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

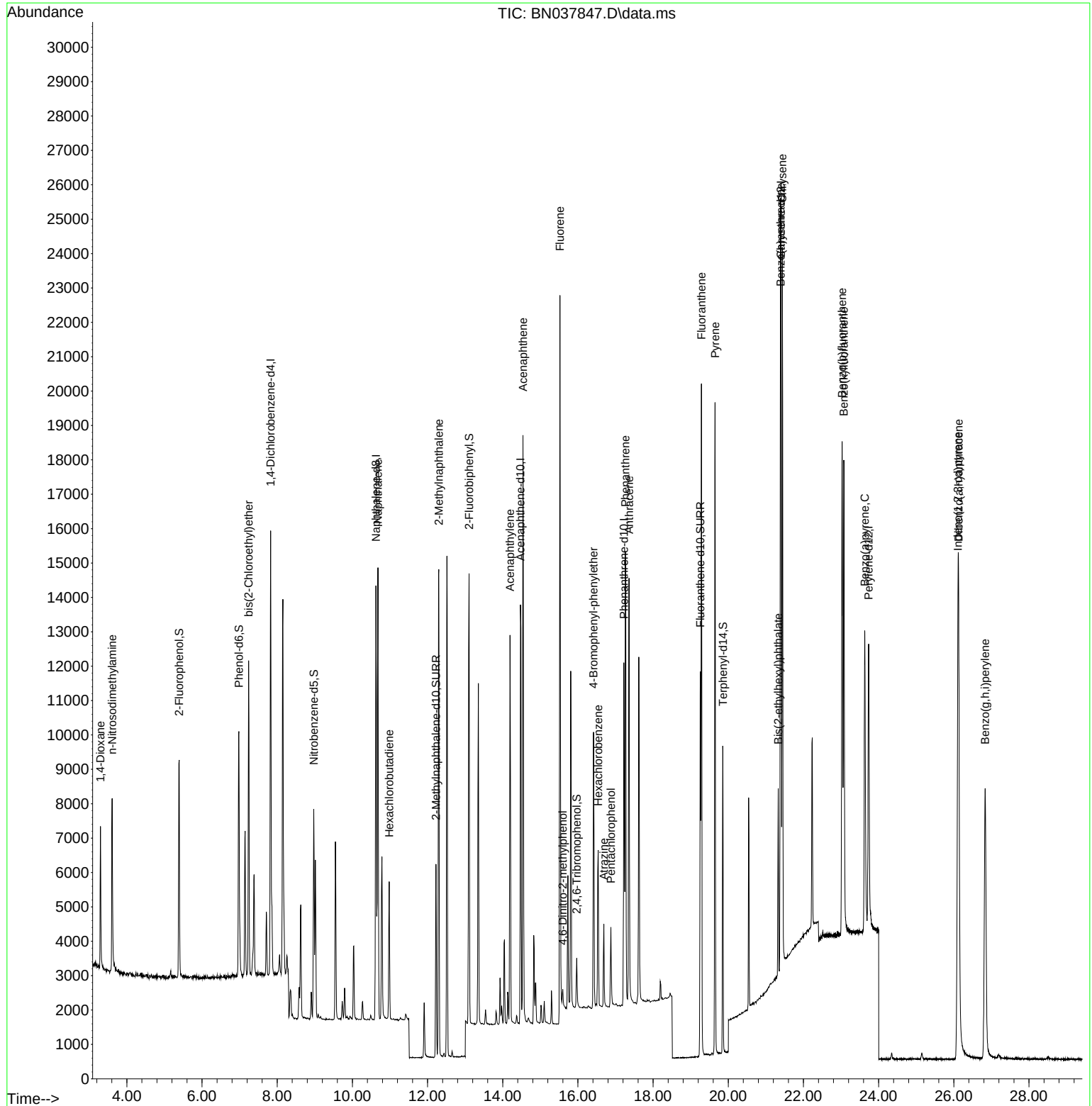
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6137	0.400	ng	-0.01
7) Naphthalene-d8	10.626	136	16197	0.400	ng	-0.02
13) Acenaphthene-d10	14.473	164	7238	0.400	ng	-0.02
19) Phenanthrene-d10	17.223	188	13073	0.400	ng	-0.01
29) Chrysene-d12	21.402	240	12006	0.400	ng	#-0.02
35) Perylene-d12	23.736	264	11862	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5373	0.381	ng	0.00
5) Phenol-d6	6.980	99	6805	0.373	ng	0.00
8) Nitrobenzene-d5	8.971	82	4665	0.394	ng	-0.02
11) 2-Methylnaphthalene-d10	12.222	152	7614	0.355	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	891	0.472	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11631	0.384	ng	-0.01
27) Fluoranthene-d10	19.257	212	11964	0.365	ng	-0.01
31) Terphenyl-d14	19.856	244	8481	0.348	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.297	88	2596	0.406	ng	95
3) n-Nitrosodimethylamine	3.608	42	3185	0.381	ng	92
6) bis(2-Chloroethyl)ether	7.240	93	6315	0.387	ng	99
9) Naphthalene	10.680	128	17021	0.384	ng	99
10) Hexachlorobutadiene	10.979	225	3043	0.380	ng	# 100
12) 2-Methylnaphthalene	12.298	142	10117	0.369	ng	99
16) Acenaphthylene	14.195	152	12119	0.365	ng	100
17) Acenaphthene	14.537	154	8461	0.377	ng	97
18) Fluorene	15.522	166	9893	0.364	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	396	0.327	ng	87
21) 4-Bromophenyl-phenylether	16.416	248	3095	0.363	ng	# 74
22) Hexachlorobenzene	16.540	284	3993	0.407	ng	98
23) Atrazine	16.689	200	1936	0.357	ng	100
24) Pentachlorophenol	16.875	266	1204	0.423	ng	98
25) Phenanthrene	17.260	178	15813	0.384	ng	99
26) Anthracene	17.359	178	13675	0.375	ng	100
28) Fluoranthene	19.285	202	17285	0.383	ng	100
30) Pyrene	19.647	202	17226	0.367	ng	100
32) Benzo(a)anthracene	21.393	228	15817	0.378	ng	99
33) Chrysene	21.438	228	17106	0.381	ng	97
34) Bis(2-ethylhexyl)phtha...	21.331	149	4990	0.402	ng	99
36) Indeno(1,2,3-cd)pyrene	26.110	276	20571	0.413	ng	100
37) Benzo(b)fluoranthene	23.028	252	18556	0.397	ng	97
38) Benzo(k)fluoranthene	23.075	252	19102	0.401	ng	97
39) Benzo(a)pyrene	23.630	252	14379	0.384	ng	# 96
40) Dibenzo(a,h)anthracene	26.127	278	15603	0.392	ng	98
41) Benzo(g,h,i)perylene	26.835	276	17395	0.390	ng	99

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

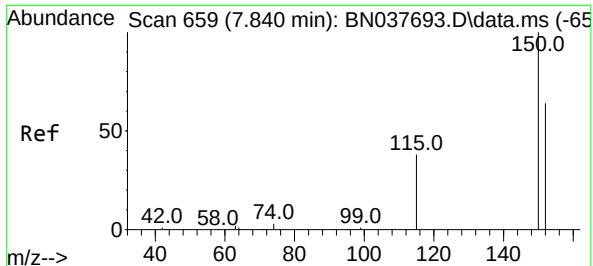
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Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

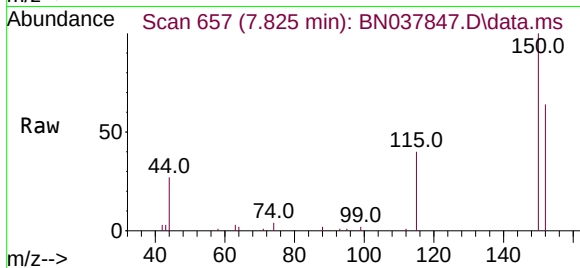


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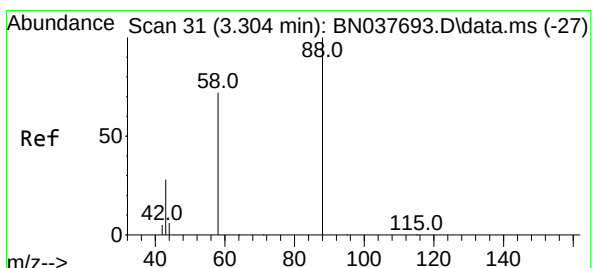
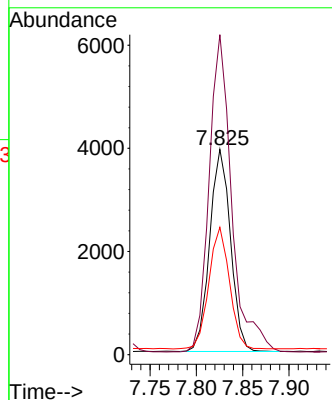
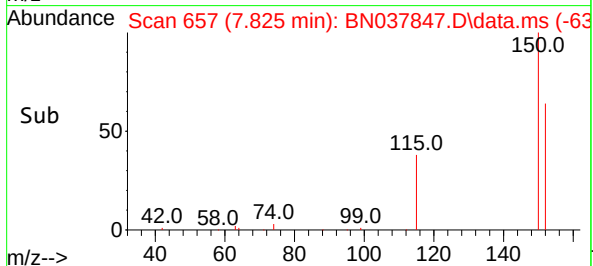


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

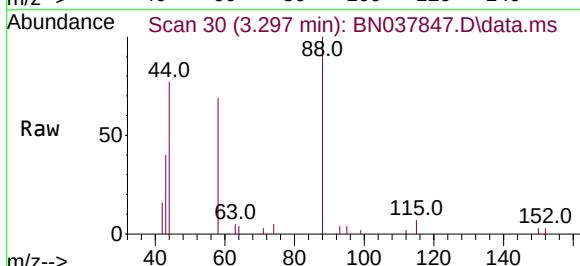
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



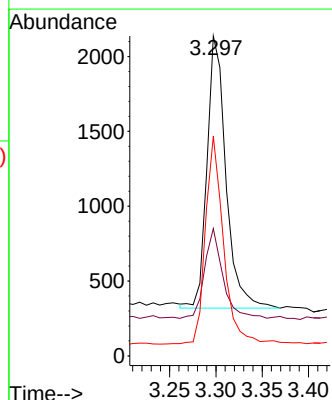
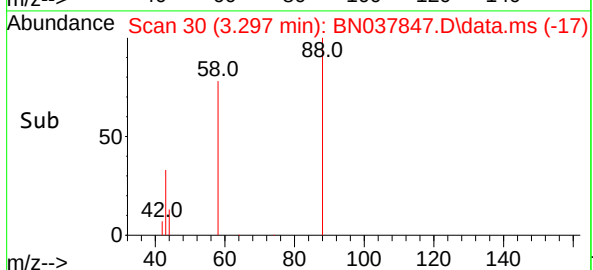
Tgt Ion:152 Resp: 6137
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 62.0 49.2 73.8



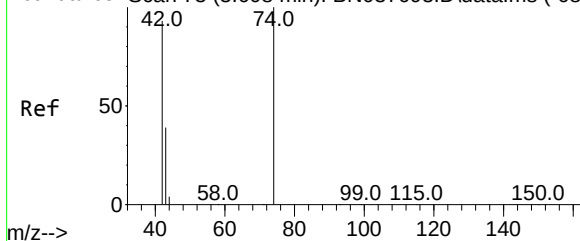
#2
1,4-Dioxane
Concen: 0.406 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39



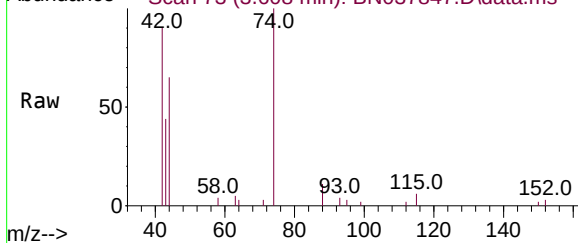
Tgt Ion: 88 Resp: 2596
Ion Ratio Lower Upper
88 100
43 31.8 26.8 40.2
58 72.9 61.9 92.9



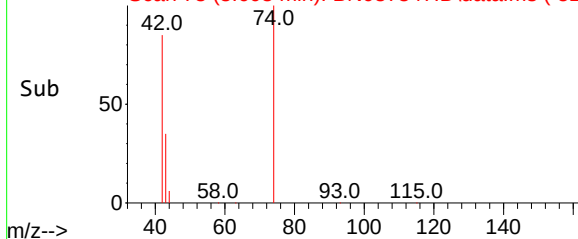
Abundance Scan 73 (3.608 min): BN037693.D\data.ms (-68)



Abundance Scan 73 (3.608 min): BN037847.D\data.ms



Abundance Scan 73 (3.608 min): BN037847.D\data.ms (-52)



#3

n-Nitrosodimethylamine

Concen: 0.381 ng

RT: 3.608 min Scan# 73

Delta R.T. -0.000 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

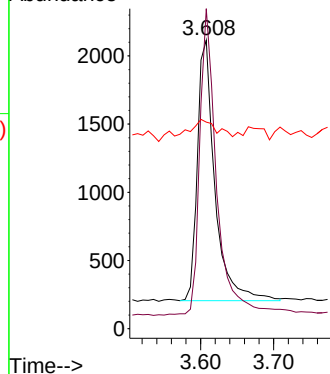
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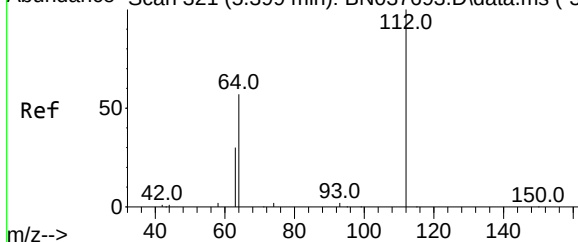
Tgt Ion: 42 Resp: 3185

Ion	Ratio	Lower	Upper
42	100		
74	116.1	86.0	129.0
44	8.6	8.4	12.6

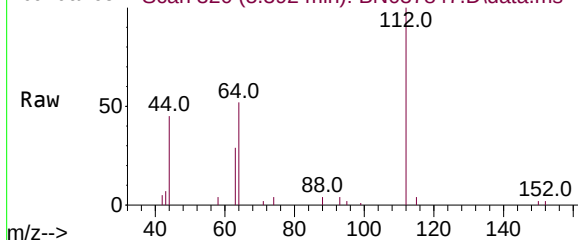
Abundance



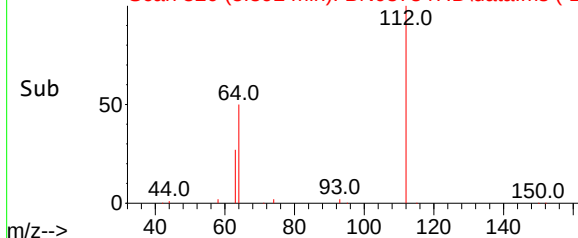
Abundance Scan 321 (5.399 min): BN037693.D\data.ms (-30)



Abundance Scan 320 (5.392 min): BN037847.D\data.ms



Abundance Scan 320 (5.392 min): BN037847.D\data.ms (-29)



#4

2-Fluorophenol

Concen: 0.381 ng

RT: 5.392 min Scan# 320

Delta R.T. -0.007 min

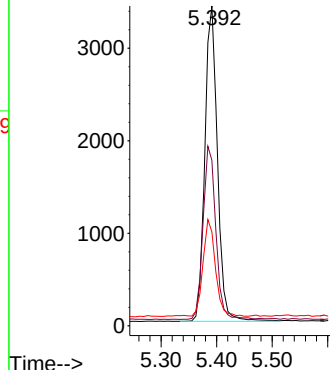
Lab File: BN037847.D

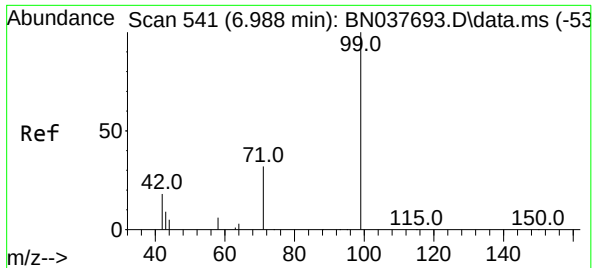
Acq: 20 Sep 2025 11:39

Tgt Ion: 112 Resp: 5373

Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.9	67.3
63	29.9	24.7	37.1

Abundance

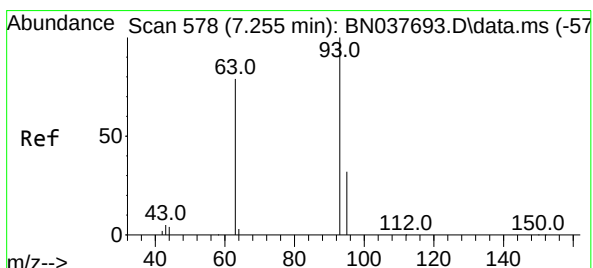
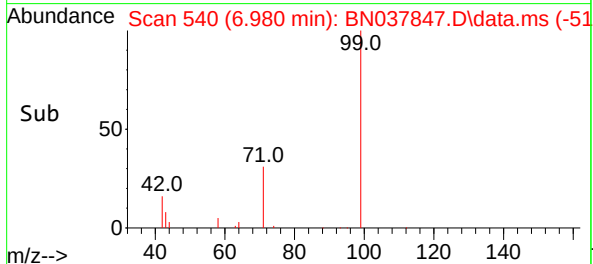
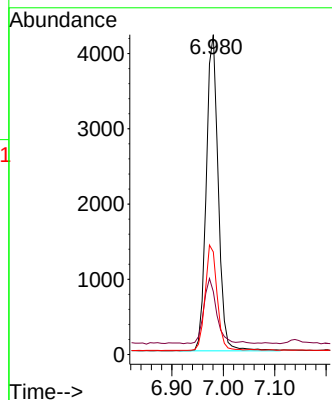
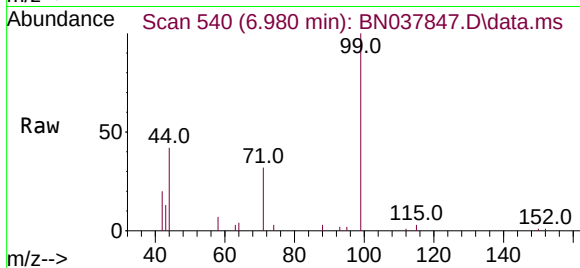




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

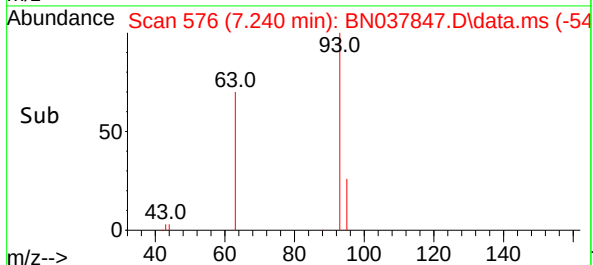
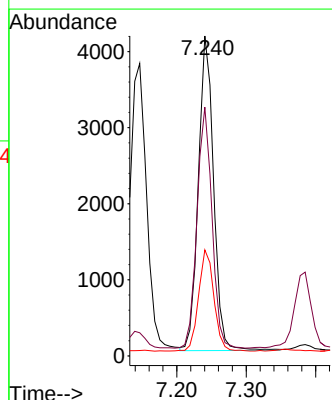
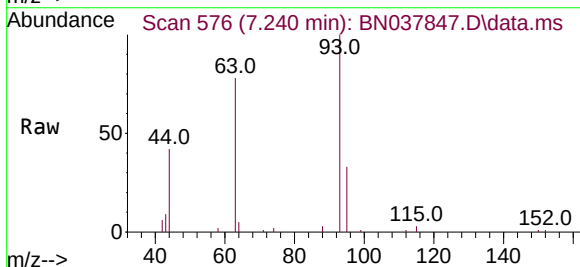
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

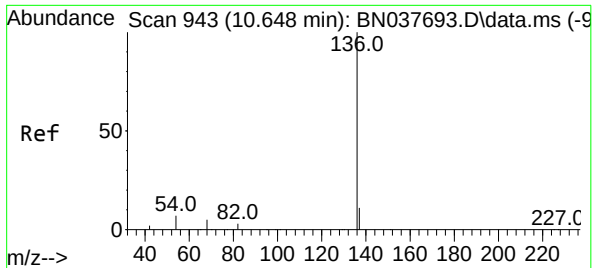
Tgt Ion: 99 Resp: 6805
Ion Ratio Lower Upper
99 100
42 21.6 16.6 24.8
71 33.1 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion: 93 Resp: 6315
Ion Ratio Lower Upper
93 100
63 75.2 60.6 90.8
95 32.2 26.0 39.0

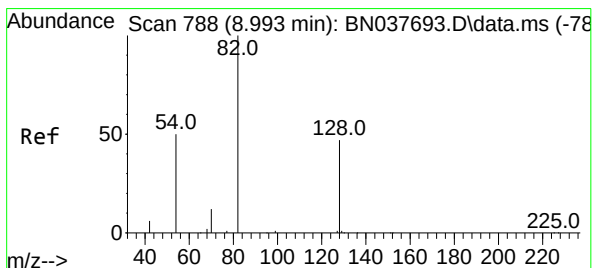
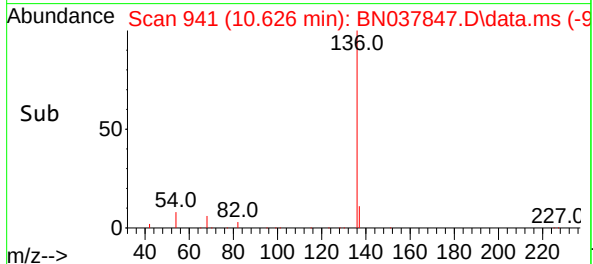
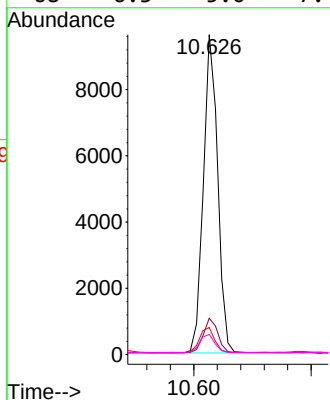
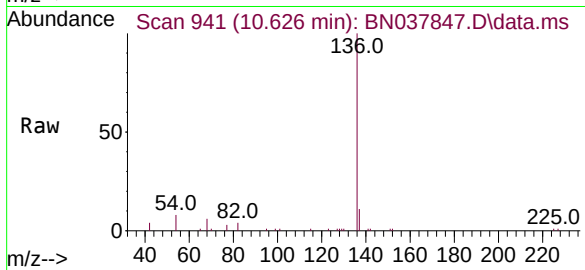




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

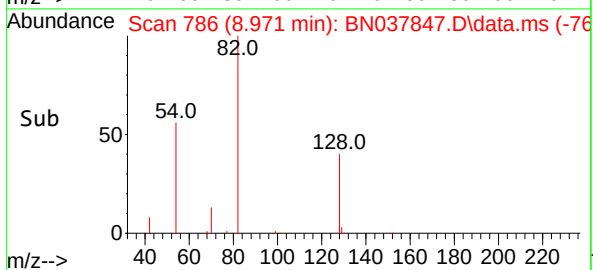
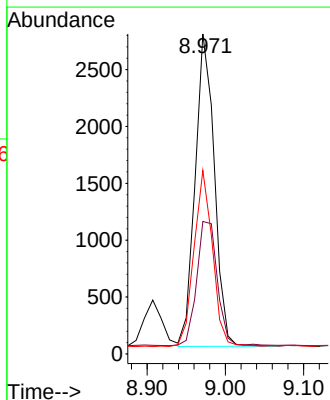
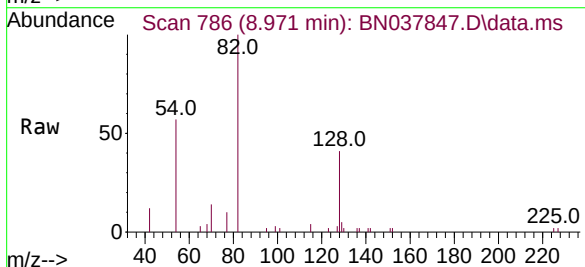
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

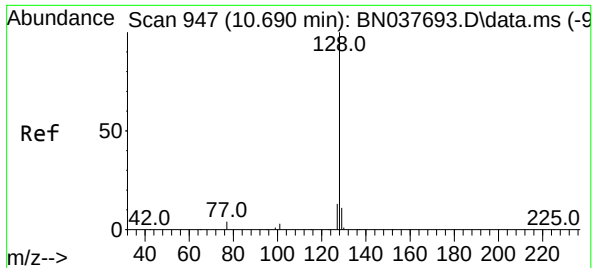
Tgt Ion:	136	Resp:	16197
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	8.5	6.3	9.5
68	6.3	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:	82	Resp:	4665
Ion	Ratio	Lower	Upper
82	100		
128	41.4	38.3	57.5
54	57.4	41.4	62.2

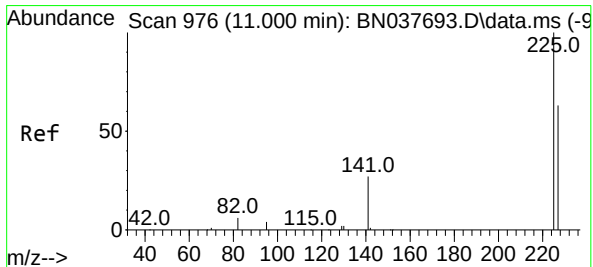
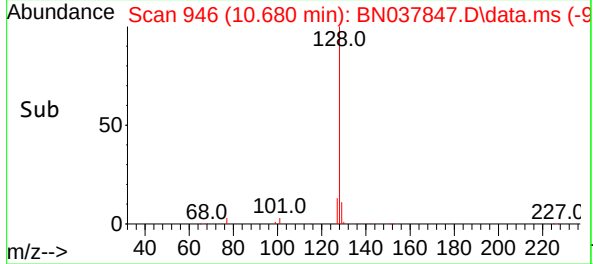
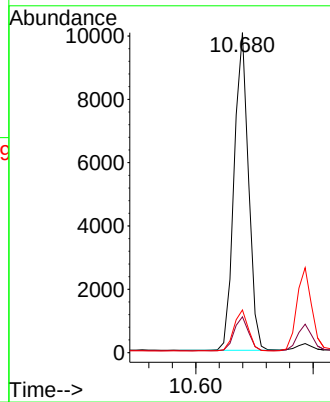
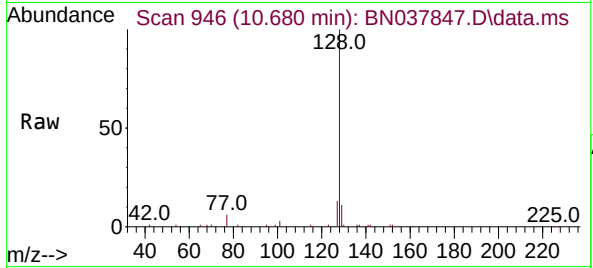




#9
Naphthalene
Concen: 0.384 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

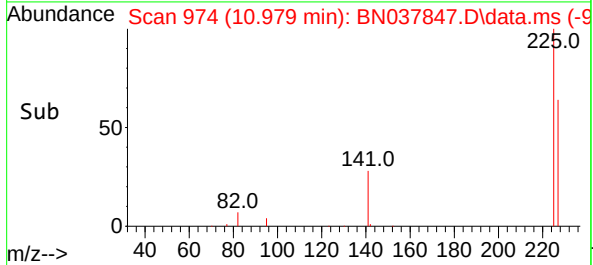
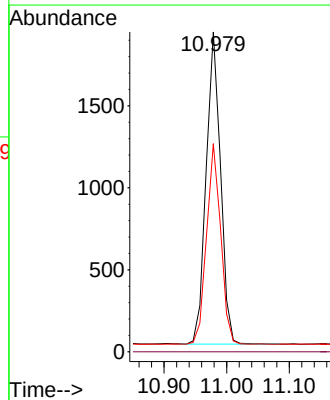
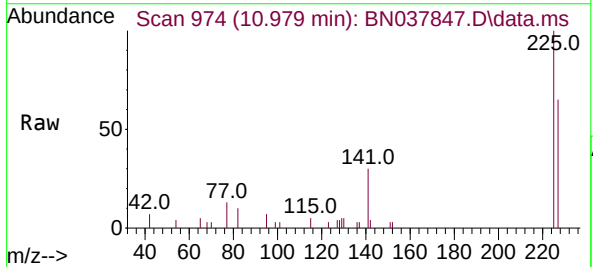
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

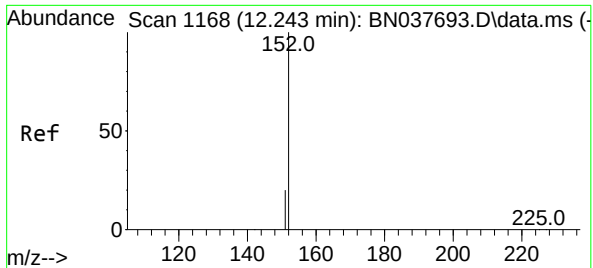
Tgt Ion:128 Resp: 17021
Ion Ratio Lower Upper
128 100
129 11.2 9.1 13.7
127 13.3 10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:225 Resp: 3043
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.9 76.3

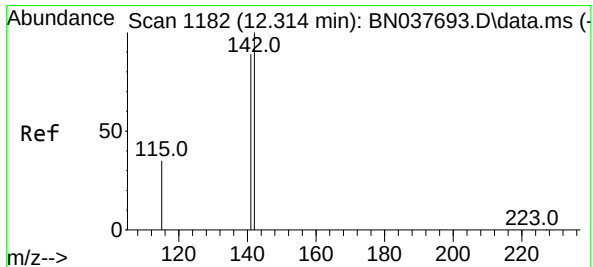
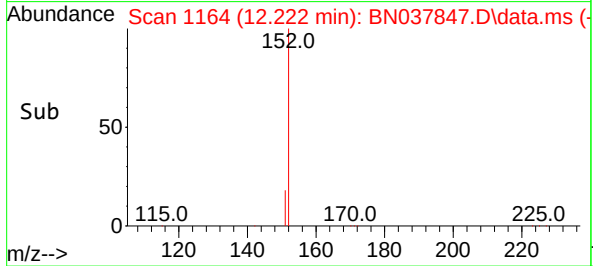
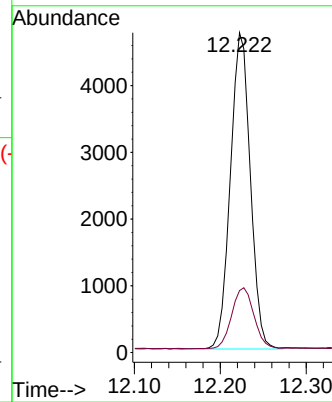
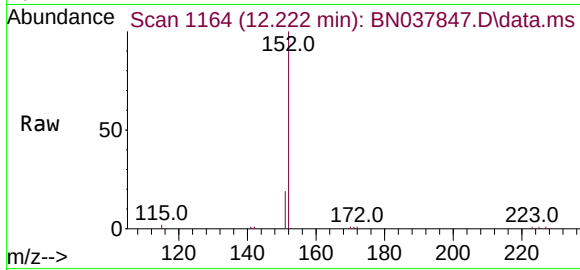




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.222 min Scan# 1164
Delta R.T. -0.020 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

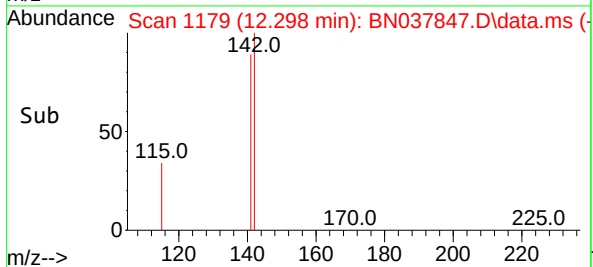
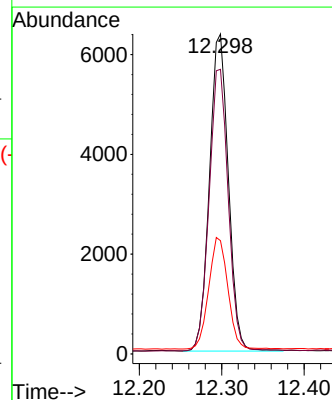
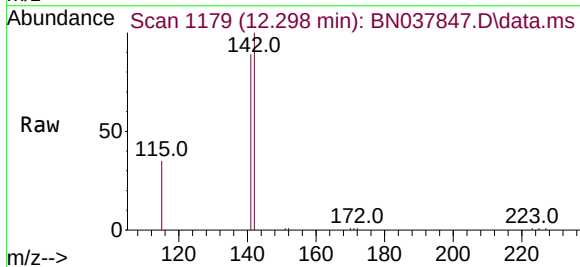
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

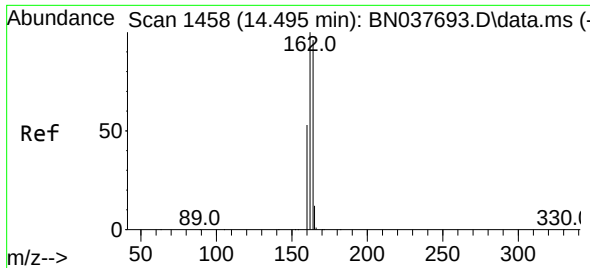
Tgt Ion:152 Resp: 7614
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.298 min Scan# 1179
Delta R.T. -0.015 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:142 Resp: 10117
Ion Ratio Lower Upper
142 100
141 88.9 71.6 107.4
115 35.4 28.6 43.0

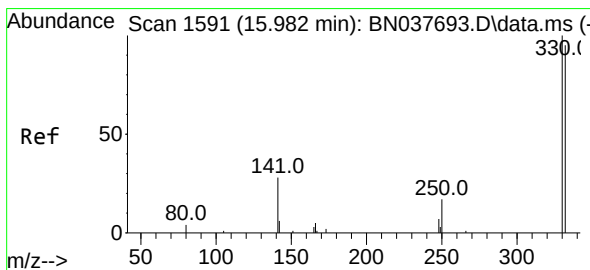
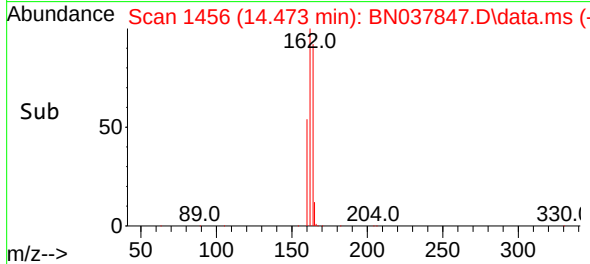
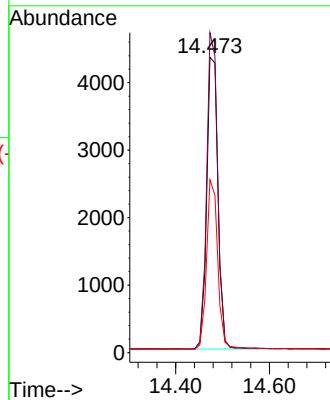
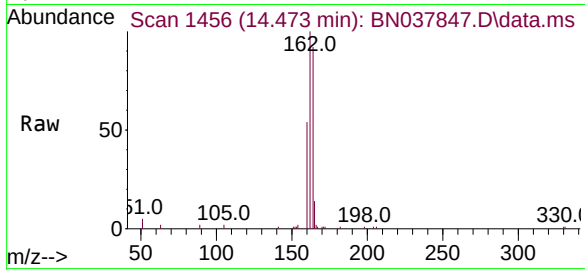




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1458
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

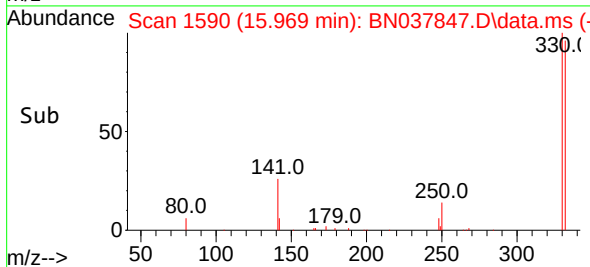
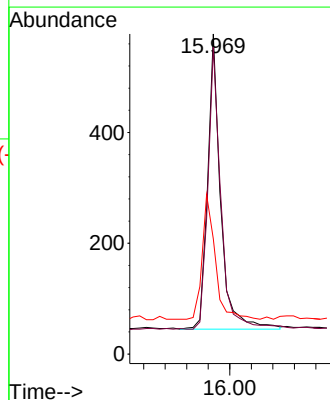
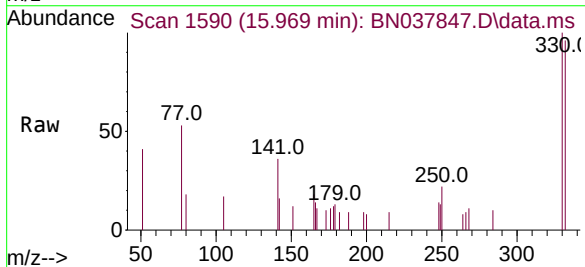
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

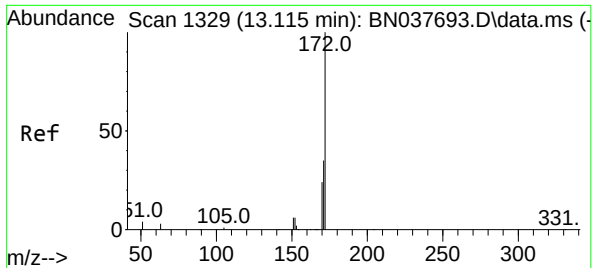
Tgt Ion	164	Resp:	7238
Ion Ratio	Lower	Upper	
164	100		
162	108.4	83.1	124.7
160	58.5	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.472 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	330	Resp:	891
Ion Ratio	Lower	Upper	
330	100		
332	96.3	75.3	112.9
141	42.8	35.0	52.4

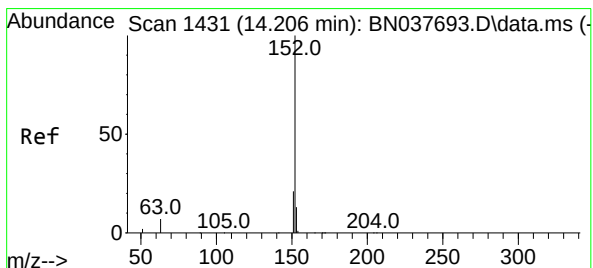
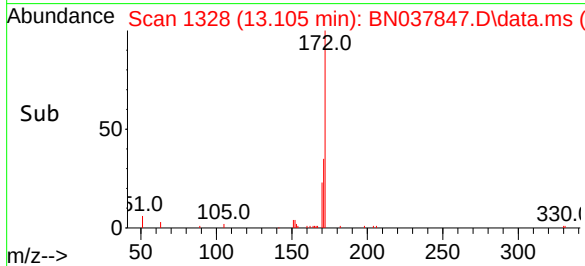
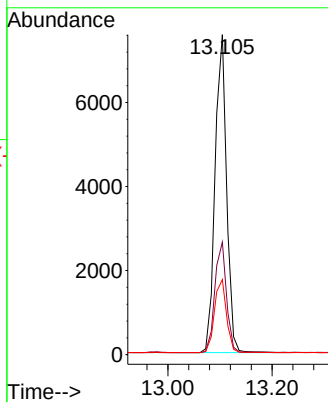
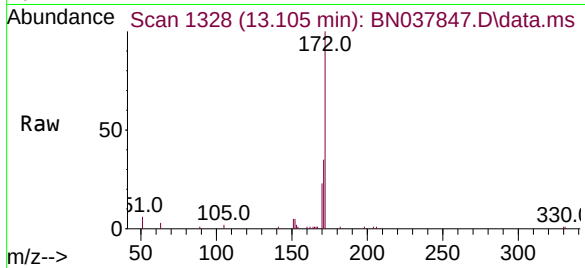




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

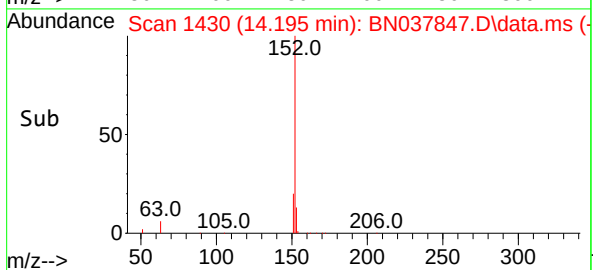
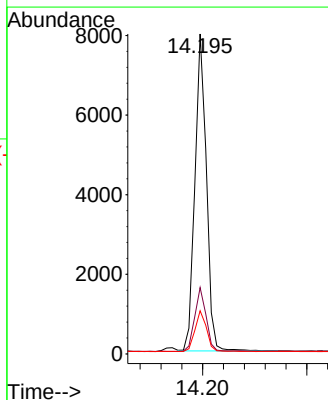
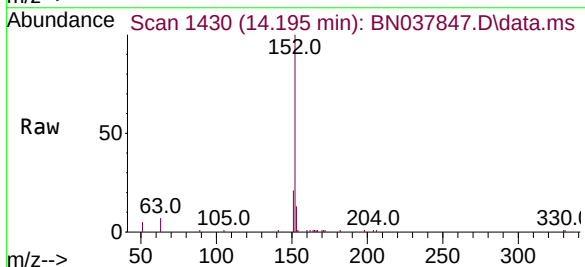
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

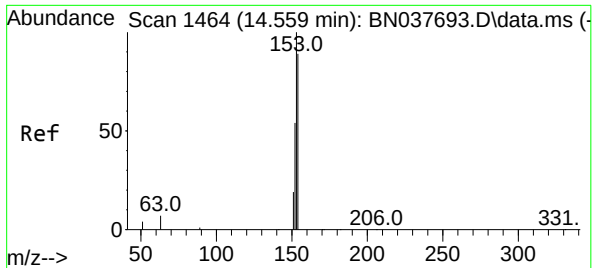
Tgt Ion:	172	Resp:	11631
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	43.0
170	23.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:	152	Resp:	12119
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.2
153	12.9	10.4	15.6

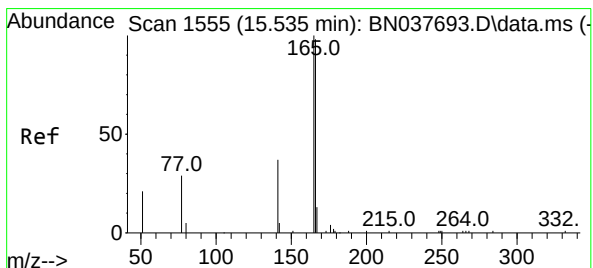
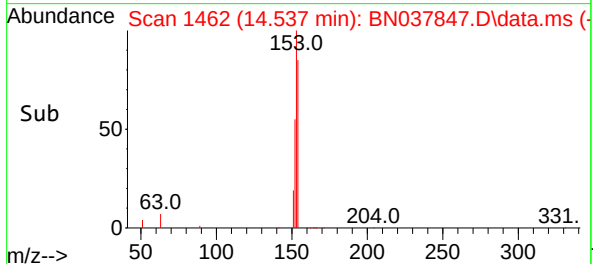
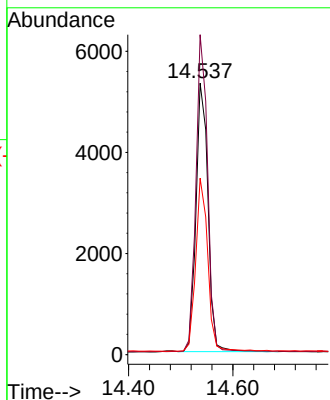
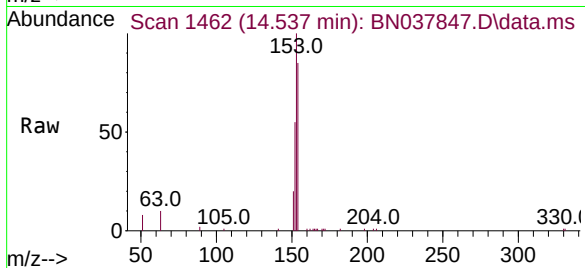




#17
Acenaphthene
Concen: 0.377 ng
RT: 14.537 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

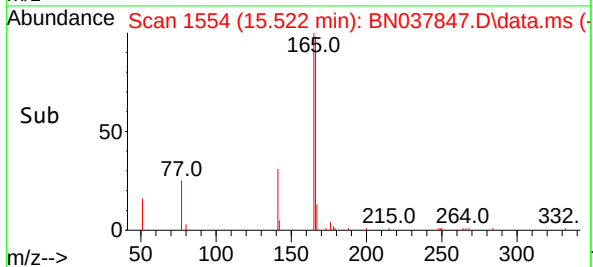
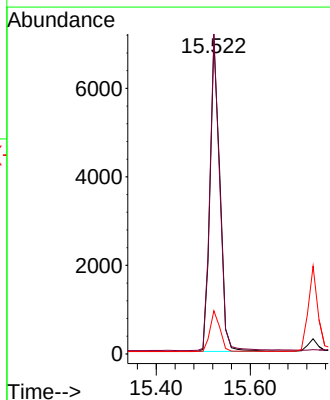
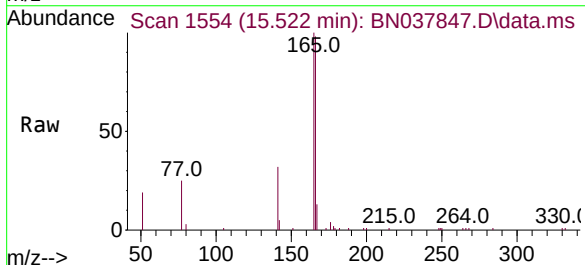
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

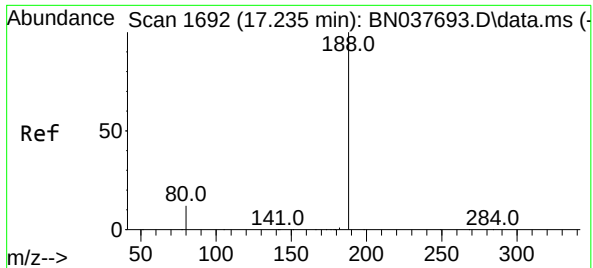
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.3	89.8	134.8
152	65.0	50.2	75.2



#18
Fluorene
Concen: 0.364 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.3	79.6	119.4
167	13.8	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 10

Delta R.T. -0.013 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

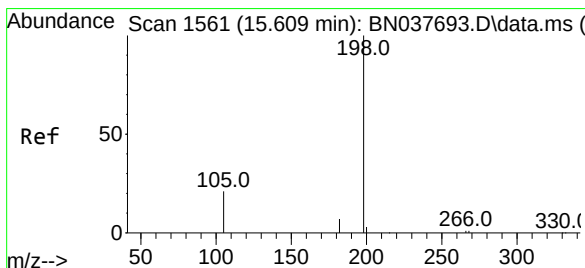
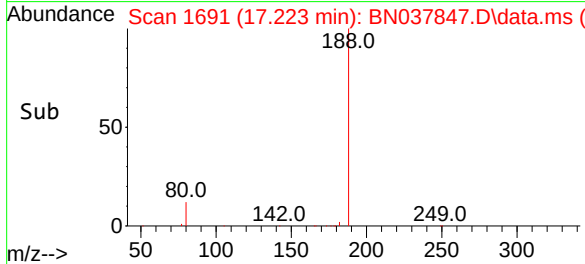
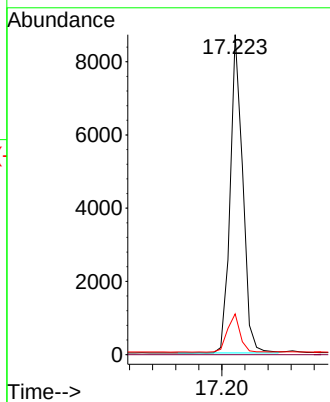
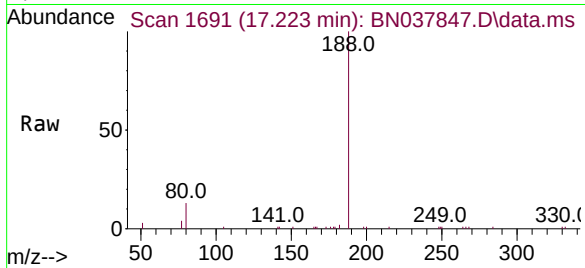
Tgt Ion:188 Resp: 13073

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.7 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.327 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

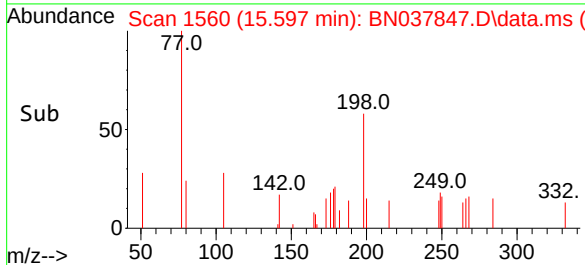
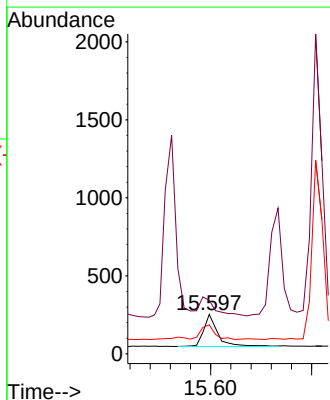
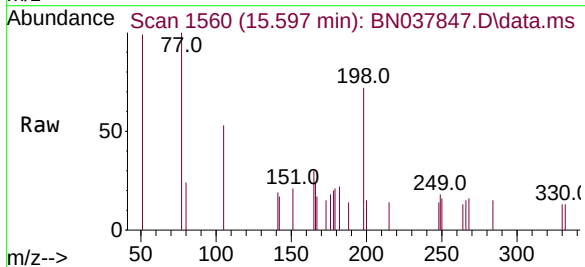
Tgt Ion:198 Resp: 396

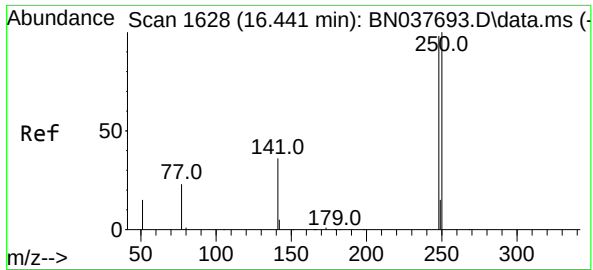
Ion Ratio Lower Upper

198 100

51 136.1 95.1 142.7

105 73.8 53.8 80.6

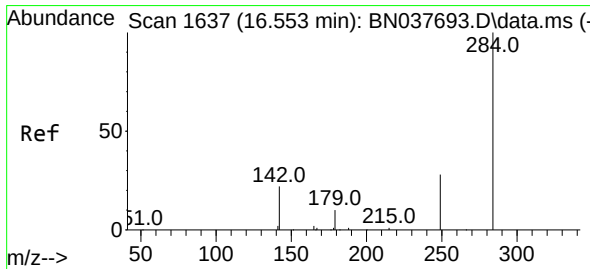
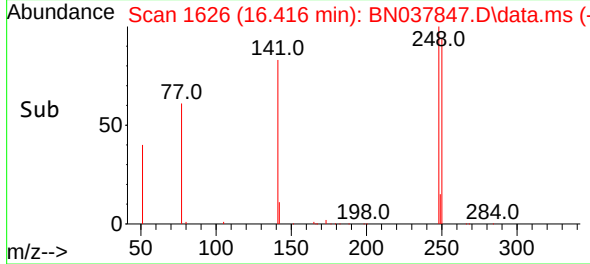
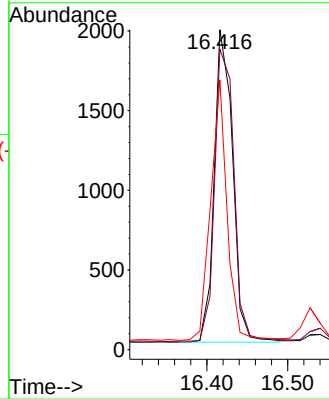
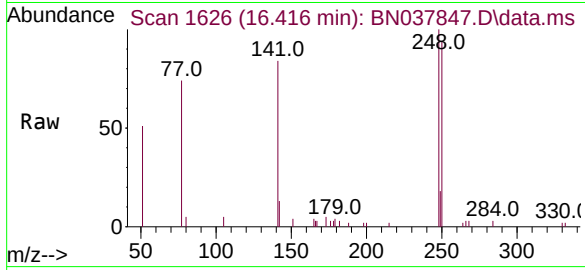




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

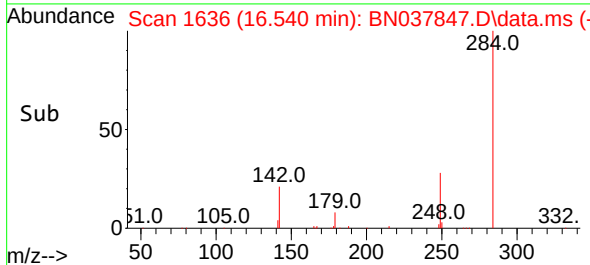
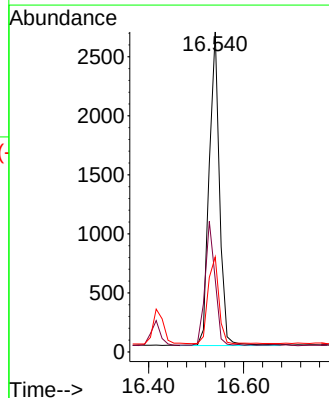
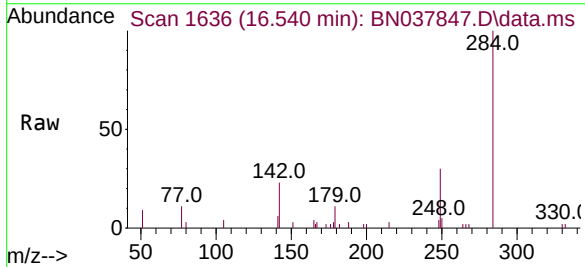
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

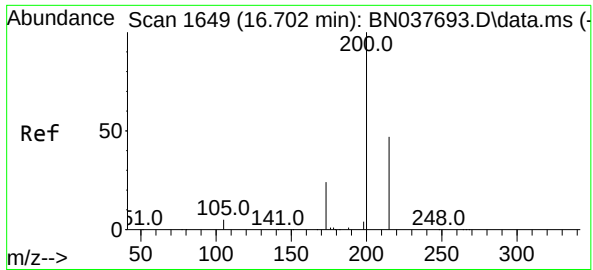
Tgt Ion:248 Resp: 3095
Ion Ratio Lower Upper
248 100
250 93.9 81.5 122.3
141 84.3 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:284 Resp: 3993
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 28.9 24.8 37.2





#23

Atrazine

Concen: 0.357 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.013 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

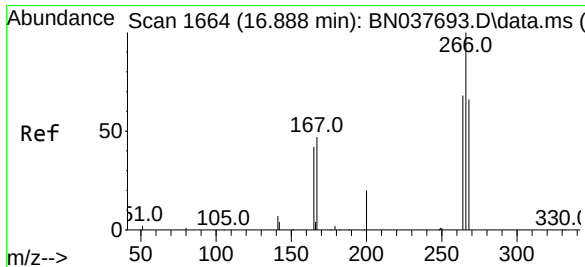
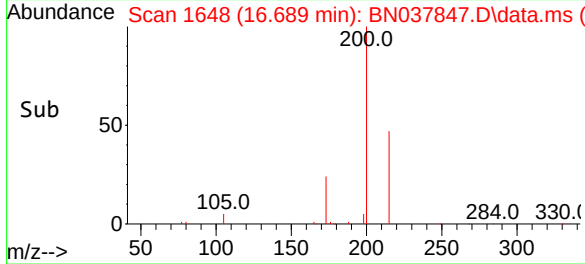
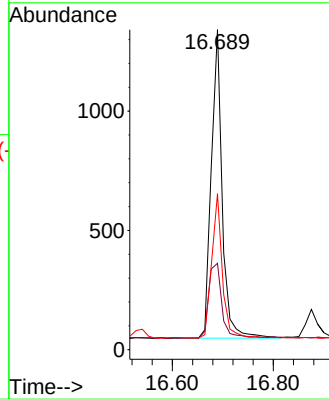
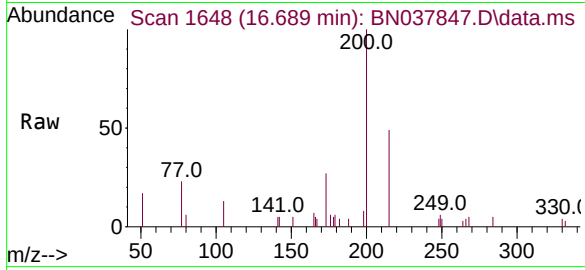
Tgt Ion:200 Resp: 1936

Ion Ratio Lower Upper

200 100

173 27.0 21.4 32.2

215 48.7 39.2 58.8



#24

Pentachlorophenol

Concen: 0.423 ng

RT: 16.875 min Scan# 1663

Delta R.T. -0.013 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

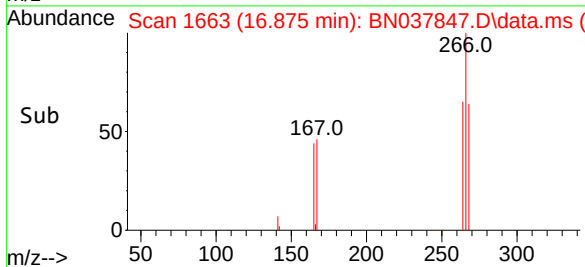
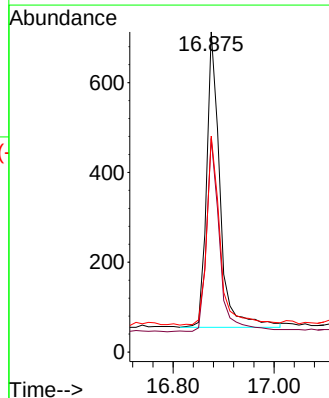
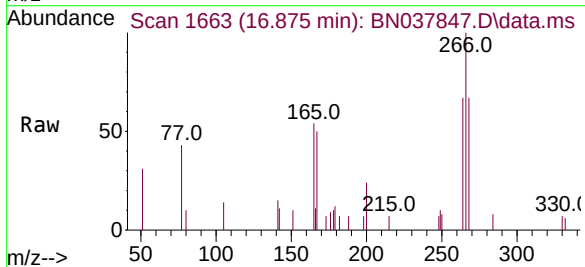
Tgt Ion:266 Resp: 1204

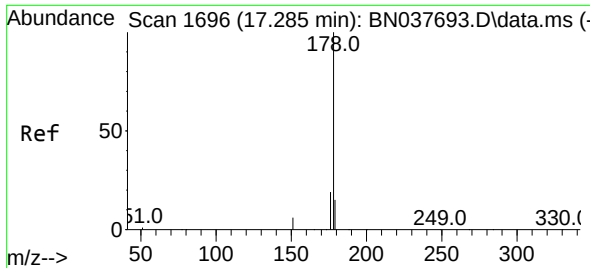
Ion Ratio Lower Upper

266 100

264 65.0 51.6 77.4

268 63.9 53.2 79.8

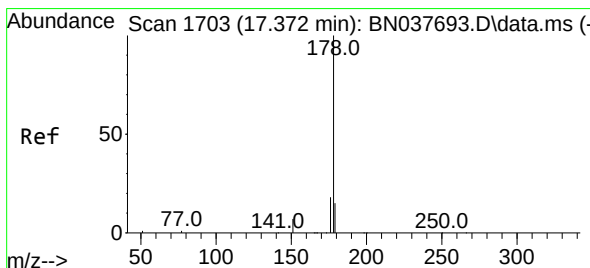
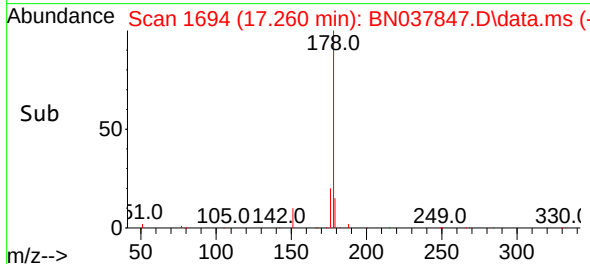
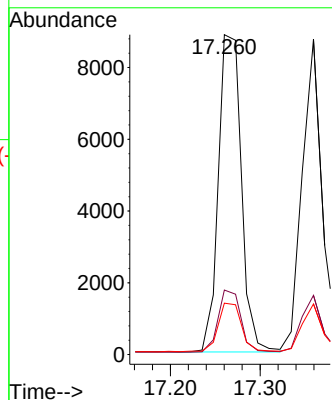
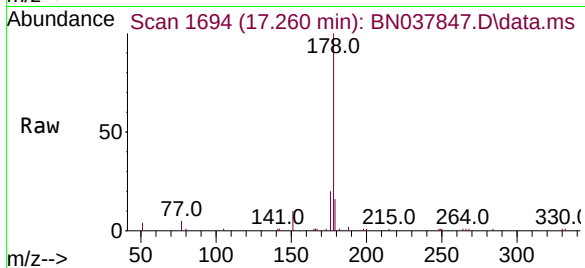




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.260 min Scan# 1696
Delta R.T. -0.025 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

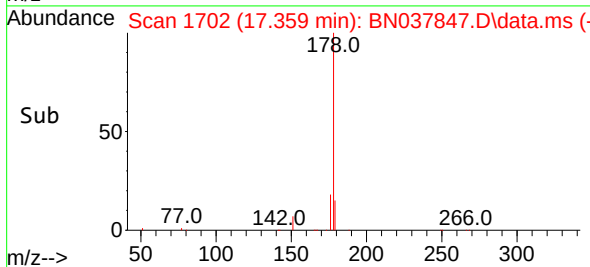
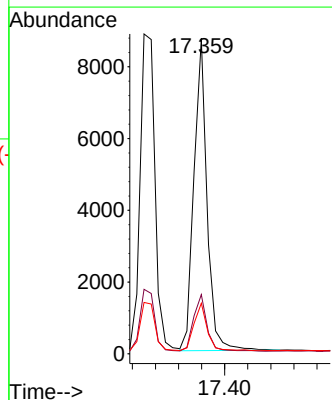
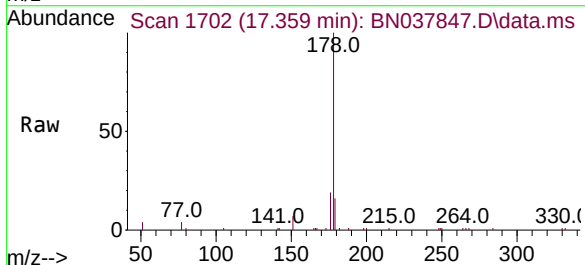
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

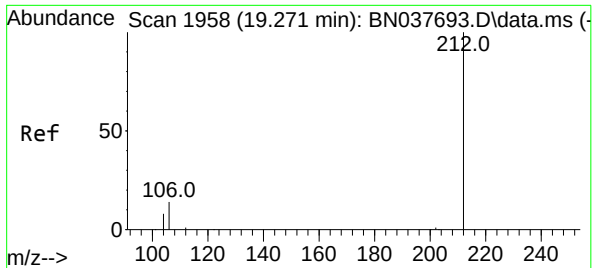
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.7	12.2	18.2



#26
Anthracene
Concen: 0.375 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.2	18.4

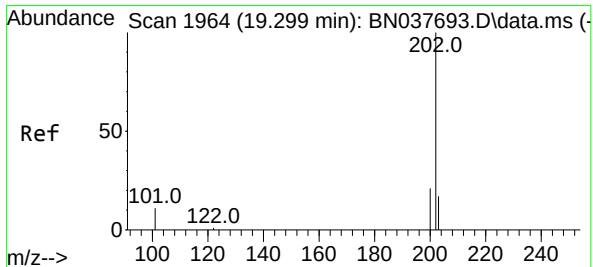
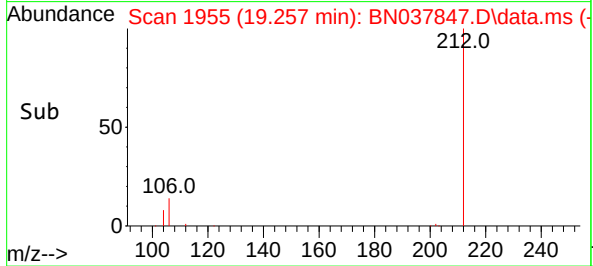
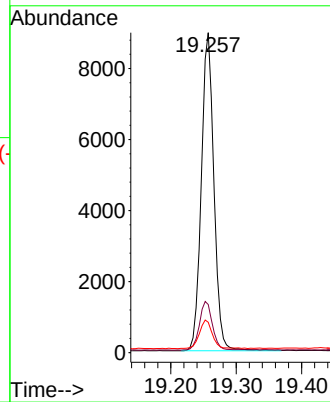
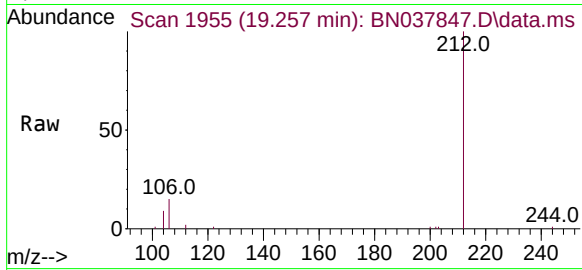




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.257 min Scan# 1955
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

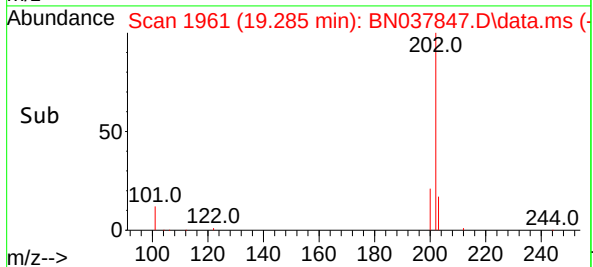
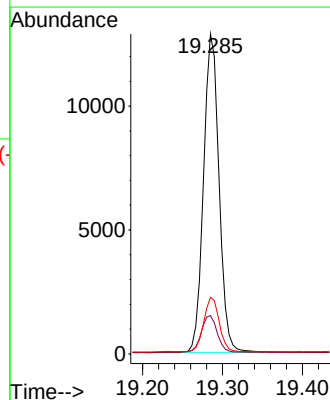
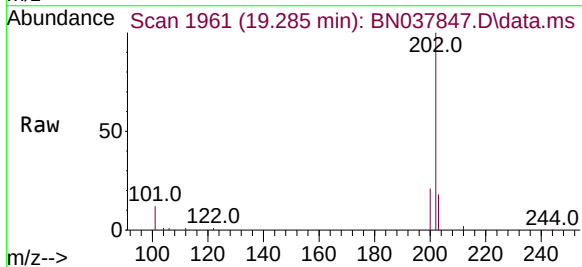
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

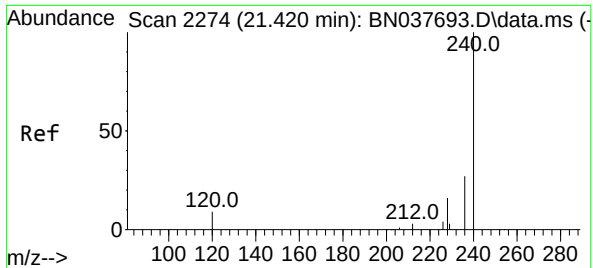
Tgt Ion:	212	Resp:	11964
Ion Ratio	Lower	Upper	
212	100		
106	15.8	12.2	18.2
104	9.3	6.9	10.3



#28
Fluoranthene
Concen: 0.383 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:	202	Resp:	17285
Ion Ratio	Lower	Upper	
202	100		
101	12.0	9.3	13.9
203	17.1	13.7	20.5

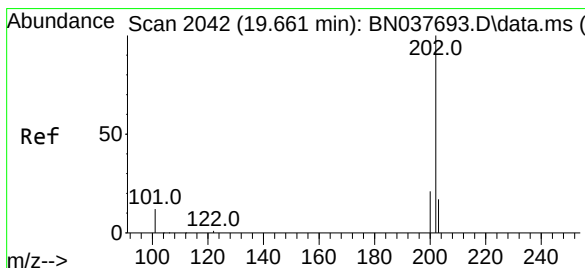
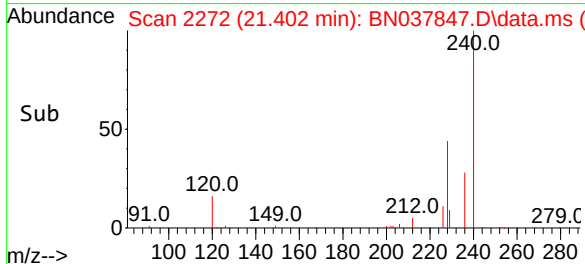
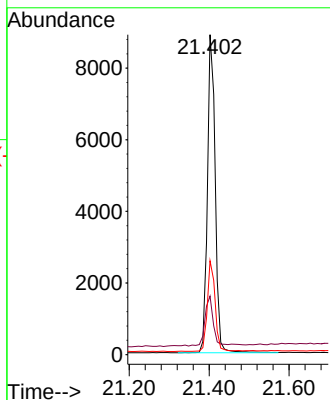
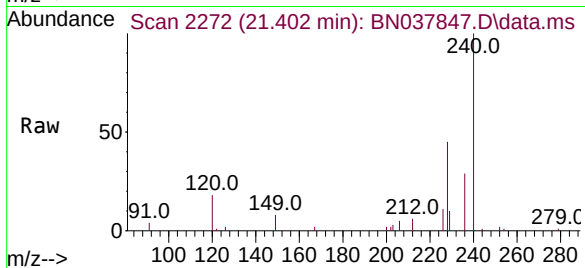




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

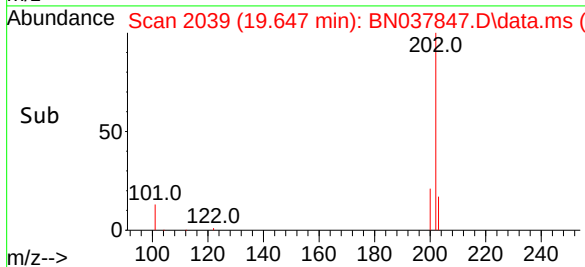
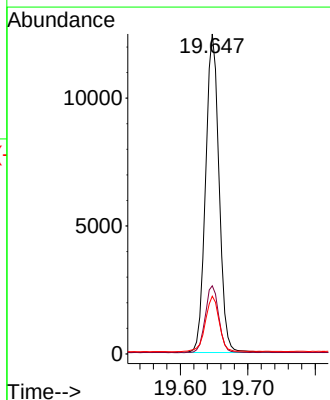
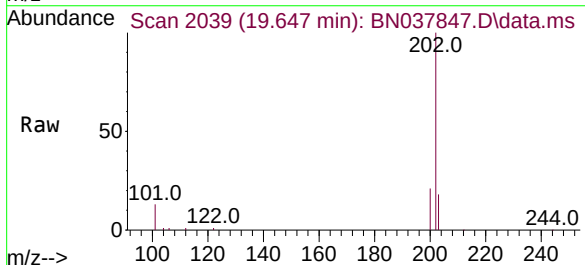
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

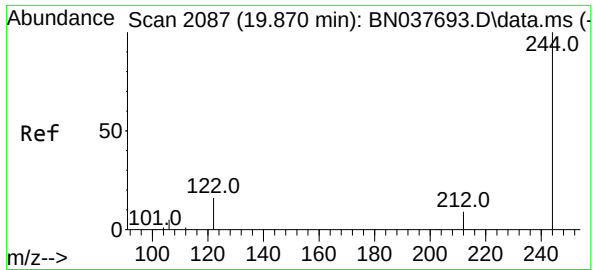
Tgt Ion:240 Resp: 12006
Ion Ratio Lower Upper
240 100
120 18.3 9.2 13.8#
236 29.3 22.6 33.8



#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:202 Resp: 17226
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.9 14.3 21.5

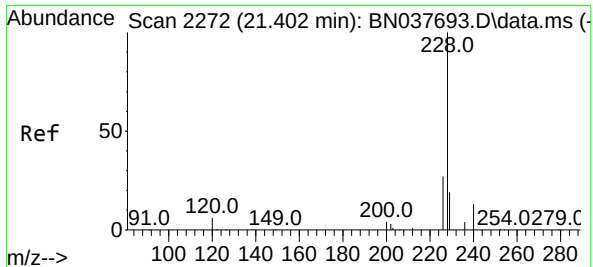
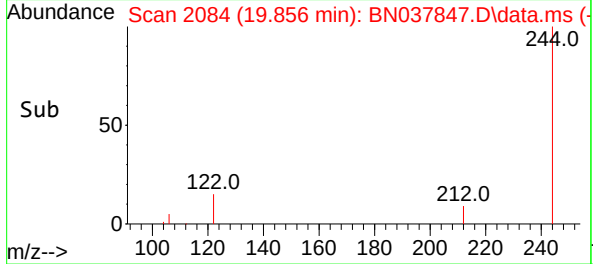
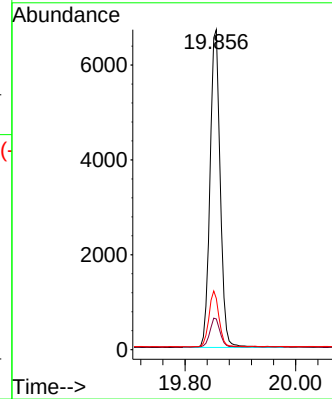
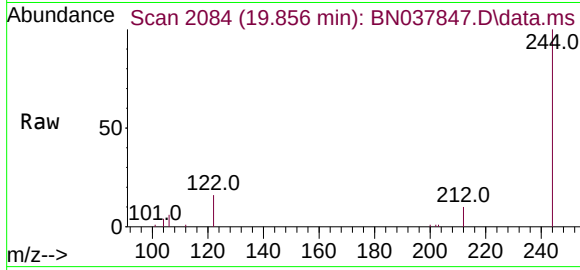




#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

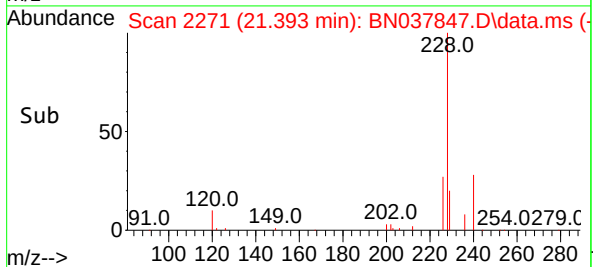
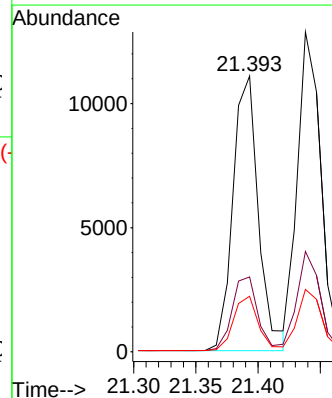
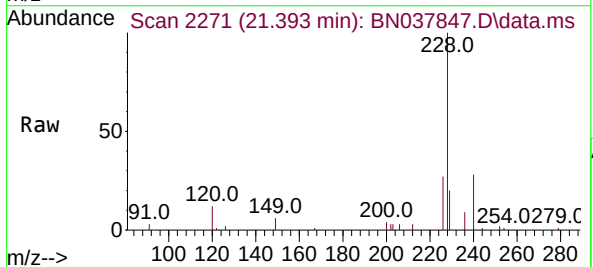
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

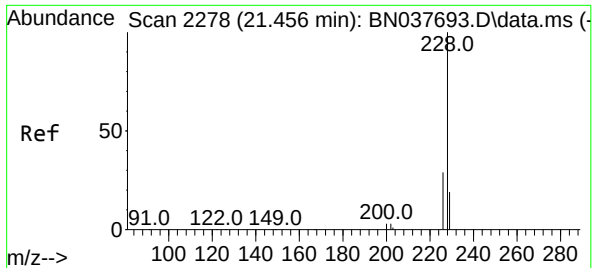
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	16.0	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	20.1	15.8	23.6

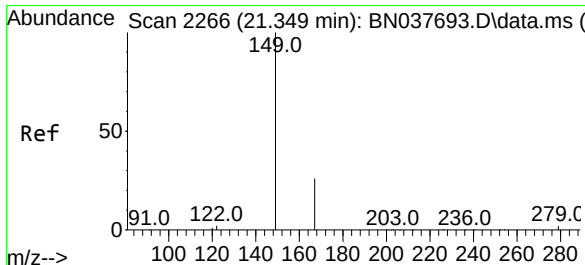
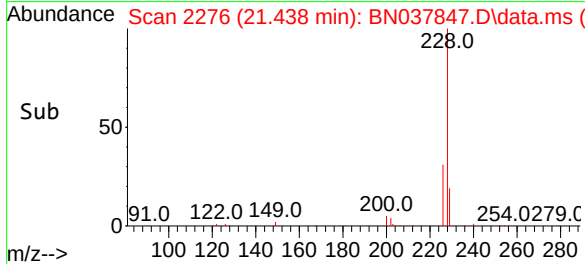
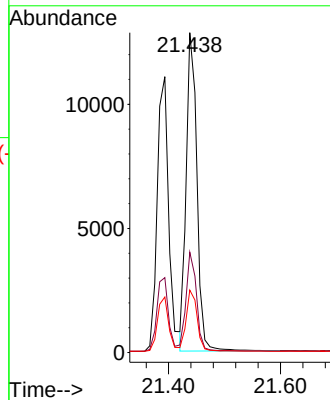
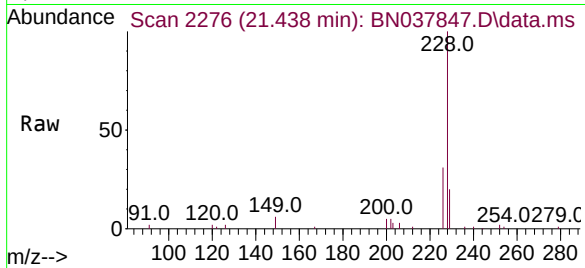




#33
Chrysene
Concen: 0.381 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

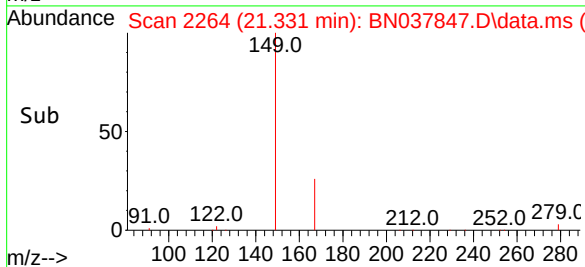
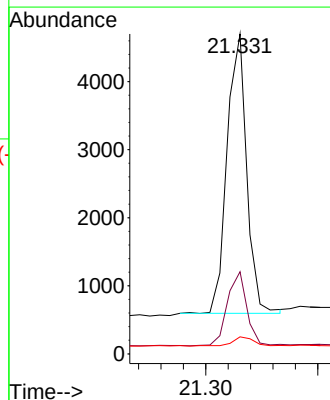
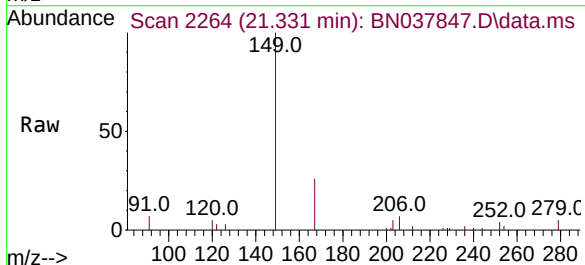
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

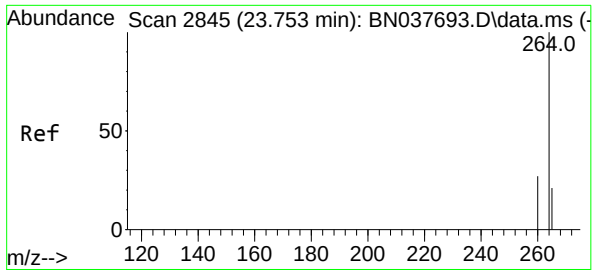
Tgt Ion:228	Resp:	17106
Ion Ratio	Lower	Upper
228	100	
226	31.4	23.5 35.3
229	19.5	15.9 23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:149	Resp:	4990
Ion Ratio	Lower	Upper
149	100	
167	26.8	20.8 31.2
279	3.7	3.3 4.9

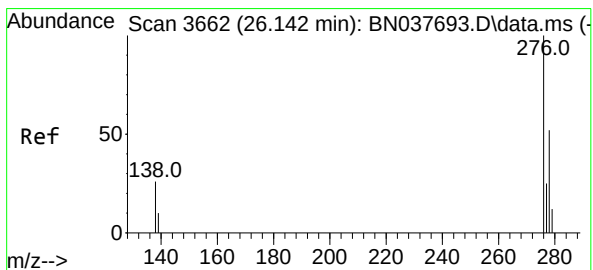
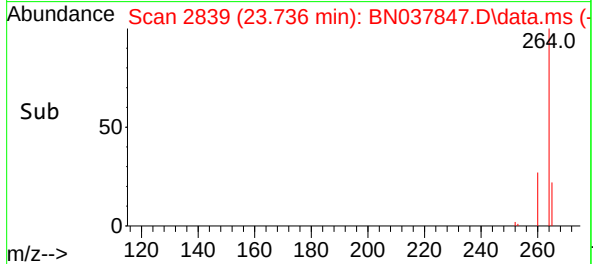
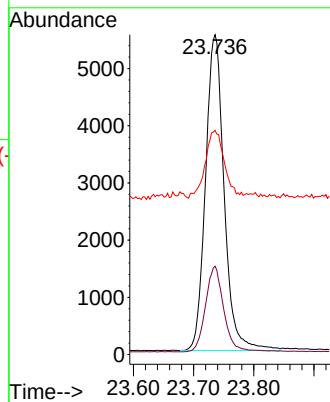
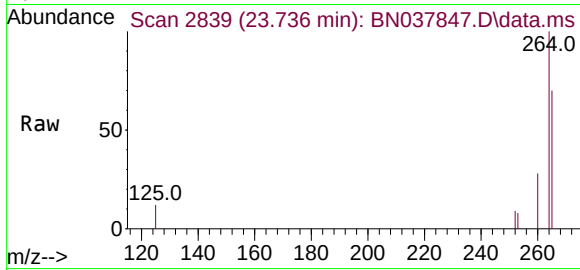




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

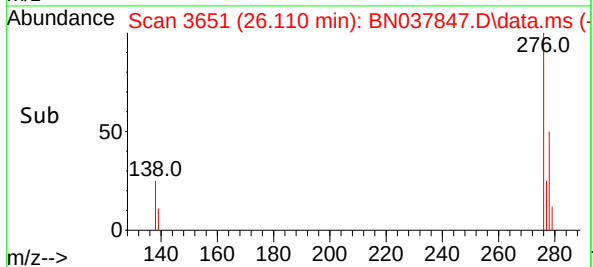
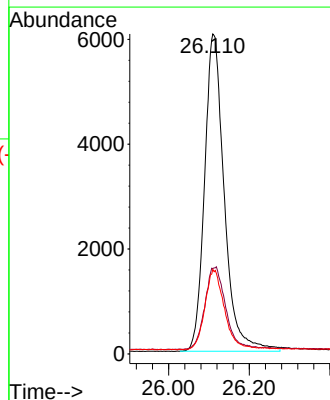
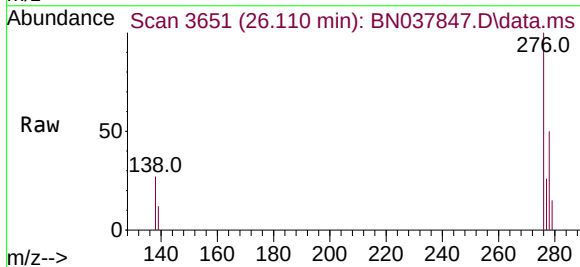
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

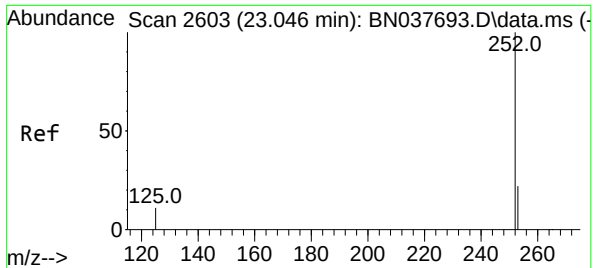
Tgt Ion:264 Resp: 11862
Ion Ratio Lower Upper
264 100
260 27.6 21.8 32.8
265 70.1 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 26.110 min Scan# 3651
Delta R.T. -0.032 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion:276 Resp: 20571
Ion Ratio Lower Upper
276 100
138 27.2 21.9 32.9
277 25.0 20.1 30.1

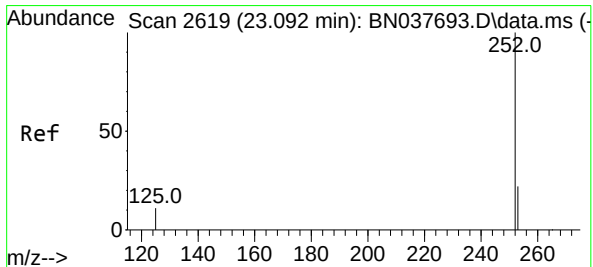
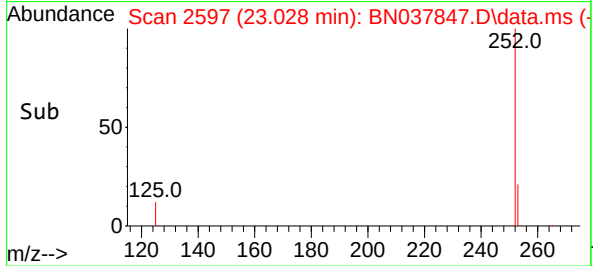
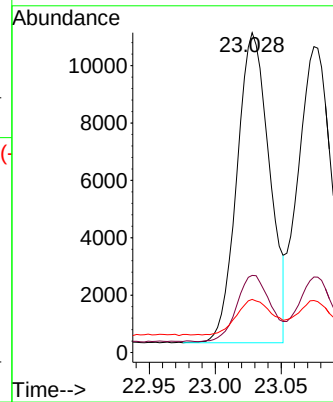
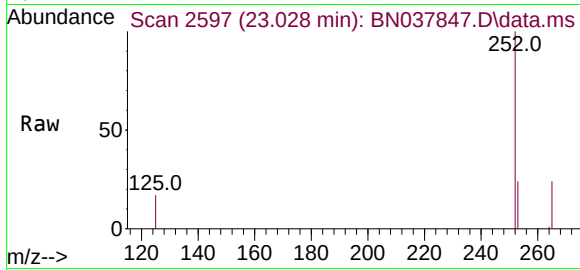




#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 23.028 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

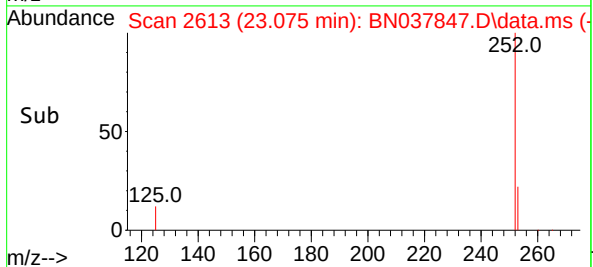
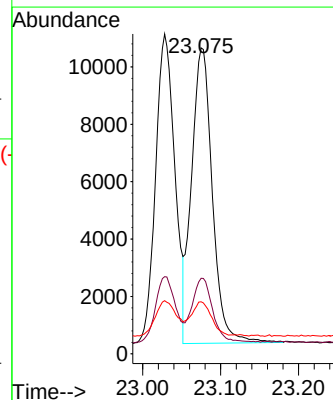
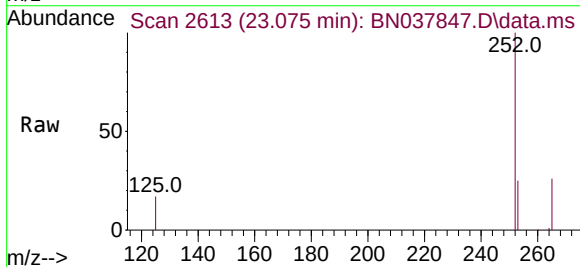
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

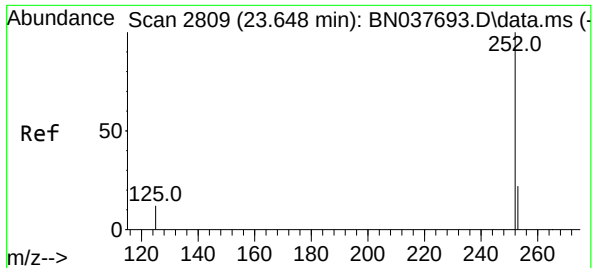
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.4	29.2
125	16.6	11.2	16.8



#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.075 min Scan# 2613
Delta R.T. -0.018 min
Lab File: BN037847.D
Acq: 20 Sep 2025 11:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.4	29.0
125	17.0	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.630 min Scan# 2803

Delta R.T. -0.018 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

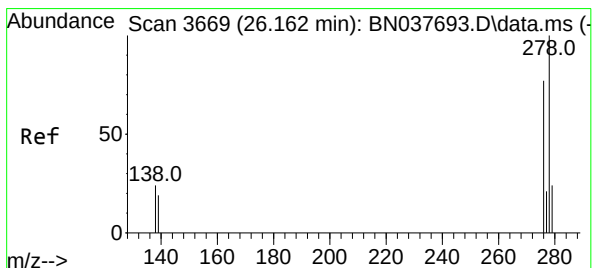
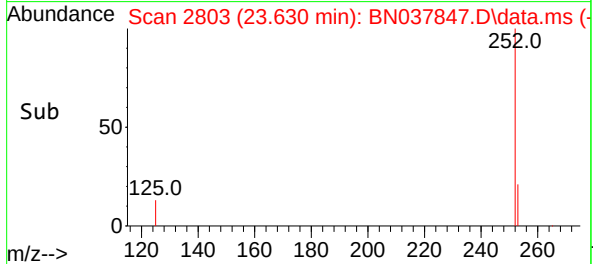
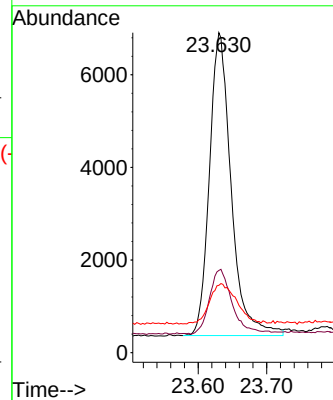
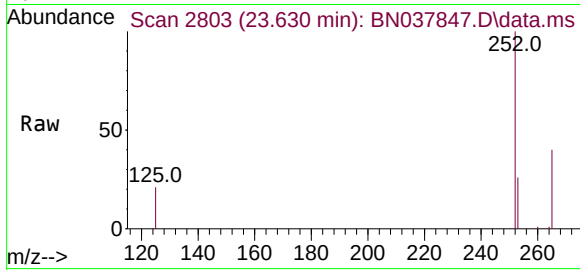
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	14379
Ion Ratio	Lower	Upper
252	100	
253	25.7	20.8 31.2
125	21.0	13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

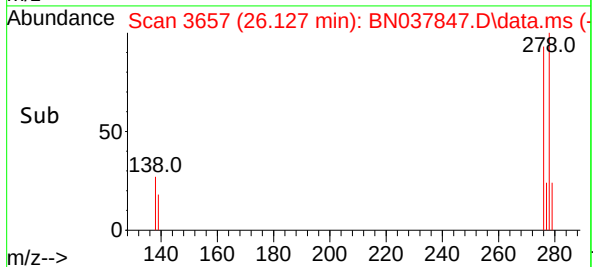
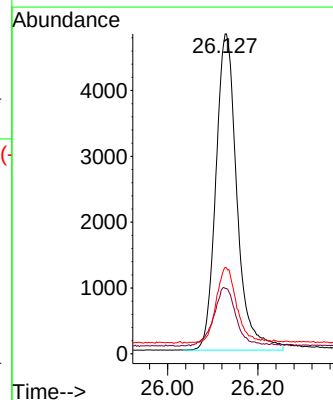
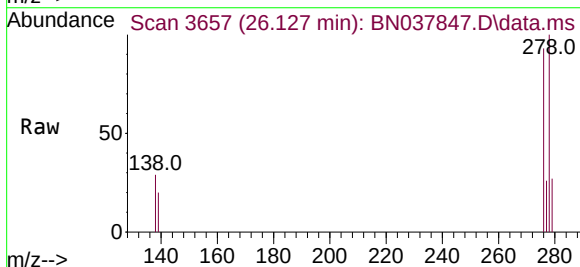
RT: 26.127 min Scan# 3657

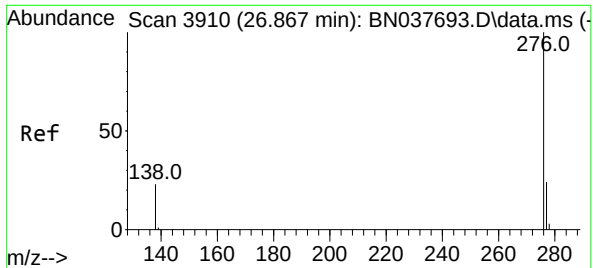
Delta R.T. -0.035 min

Lab File: BN037847.D

Acq: 20 Sep 2025 11:39

Tgt Ion:278	Resp:	15603
Ion Ratio	Lower	Upper
278	100	
139	20.5	17.8 26.6
279	27.0	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.390 ng

RT: 26.835 min Scan# 38

Delta R.T. -0.032 min

Lab File: BN037847.D

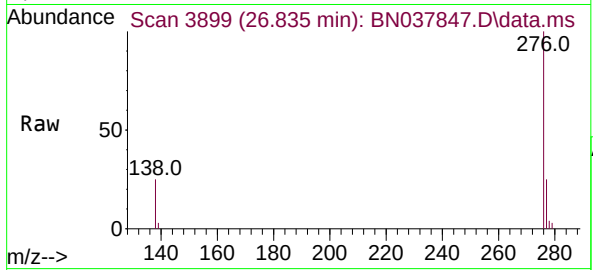
Acq: 20 Sep 2025 11:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



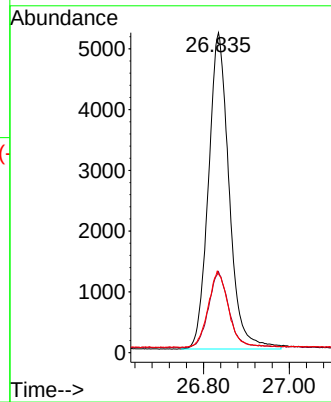
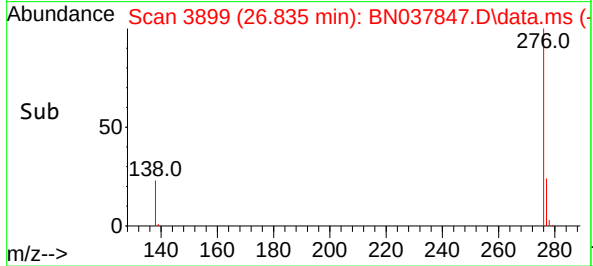
Tgt Ion:276 Resp: 17395

Ion Ratio Lower Upper

276 100

277 25.3 20.6 31.0

138 24.6 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037847.D
Acq On : 20 Sep 2025 11:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	123	-0.01
2	1,4-Dioxane	0.417	0.423	-1.4	123	0.00
3	n-Nitrosodimethylamine	0.544	0.519	4.6	113	0.00
4 S	2-Fluorophenol	0.918	0.876	4.6	121	0.00
5 S	Phenol-d6	1.191	1.109	6.9	118	0.00
6	bis(2-Chloroethyl)ether	1.064	1.029	3.3	118	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	122	-0.02
8 S	Nitrobenzene-d5	0.293	0.288	1.7	124	-0.02
9	Naphthalene	1.093	1.051	3.8	120	-0.01
10	Hexachlorobutadiene	0.198	0.188	5.1	116	-0.02
11 SURR	2-Methylnaphthalene-d10	0.530	0.470	11.3	115	-0.02
12	2-Methylnaphthalene	0.676	0.625	7.5	116	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	117	-0.02
14 S	2,4,6-Tribromophenol	0.104	0.123	-18.3	143	-0.01
15 S	2-Fluorobiphenyl	1.673	1.607	3.9	114	-0.01
16	Acenaphthylene	1.834	1.674	8.7	110	-0.01
17	Acenaphthene	1.240	1.169	5.7	112	-0.02
18	Fluorene	1.502	1.367	9.0	111	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	116	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.030	18.9	106	-0.01
21	4-Bromophenyl-phenylether	0.261	0.237	9.2	109	-0.02
22	Hexachlorobenzene	0.300	0.305	-1.7	121	-0.01
23	Atrazine	0.166	0.148	10.8	113	-0.01
24	Pentachlorophenol	0.087	0.092	-5.7	144	-0.01
25	Phenanthrene	1.259	1.210	3.9	115	-0.02
26	Anthracene	1.116	1.046	6.3	113	-0.01
27 SURR	Fluoranthene-d10	1.004	0.915	8.9	114	-0.01
28	Fluoranthene	1.381	1.322	4.3	117	-0.01
29 I	Chrysene-d12	1.000	1.000	0.0	128	-0.02
30	Pyrene	1.566	1.435	8.4	118	-0.01
31 S	Terphenyl-d14	0.812	0.706	13.1	113	-0.01
32	Benzo(a)anthracene	1.395	1.317	5.6	125	0.00
33	Chrysene	1.496	1.425	4.7	122	-0.02
34	Bis(2-ethylhexyl)phthalate	0.414	0.416	-0.5	142	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	132	-0.02
36	Indeno(1,2,3-cd)pyrene	1.681	1.734	-3.2	149	-0.03
37	Benzo(b)fluoranthene	1.575	1.564	0.7	133	-0.02
38	Benzo(k)fluoranthene	1.606	1.610	-0.2	140	-0.02
39 C	Benzo(a)pyrene	1.261	1.212	3.9	134	-0.02
40	Dibenzo(a,h)anthracene	1.342	1.315	2.0	144	-0.04
41	Benzo(g,h,i)perylene	1.506	1.466	2.7	134	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
 Data File : BN037847.D
 Acq On : 20 Sep 2025 11:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 00:38:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 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	123	-0.01
2	1,4-Dioxane	0.400	0.406	-1.5	123	0.00
3	n-Nitrosodimethylamine	0.400	0.381	4.8	113	0.00
4 S	2-Fluorophenol	0.400	0.381	4.8	121	0.00
5 S	Phenol-d6	0.400	0.373	6.8	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.387	3.3	118	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	122	-0.02
8 S	Nitrobenzene-d5	0.400	0.394	1.5	124	-0.02
9	Naphthalene	0.400	0.384	4.0	120	-0.01
10	Hexachlorobutadiene	0.400	0.380	5.0	116	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	115	-0.02
12	2-Methylnaphthalene	0.400	0.369	7.8	116	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	117	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.472	-18.0	143	-0.01
15 S	2-Fluorobiphenyl	0.400	0.384	4.0	114	-0.01
16	Acenaphthylene	0.400	0.365	8.8	110	-0.01
17	Acenaphthene	0.400	0.377	5.8	112	-0.02
18	Fluorene	0.400	0.364	9.0	111	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	116	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.327	18.3	106	-0.01
21	4-Bromophenyl-phenylether	0.400	0.363	9.3	109	-0.02
22	Hexachlorobenzene	0.400	0.407	-1.7	121	-0.01
23	Atrazine	0.400	0.357	10.8	113	-0.01
24	Pentachlorophenol	0.400	0.423	-5.7	144	-0.01
25	Phenanthrene	0.400	0.384	4.0	115	-0.02
26	Anthracene	0.400	0.375	6.3	113	-0.01
27 SURR	Fluoranthene-d10	0.400	0.365	8.8	114	-0.01
28	Fluoranthene	0.400	0.383	4.3	117	-0.01
29 I	Chrysene-d12	0.400	0.400	0.0	128	-0.02
30	Pyrene	0.400	0.367	8.3	118	-0.01
31 S	Terphenyl-d14	0.400	0.348	13.0	113	-0.01
32	Benzo(a)anthracene	0.400	0.378	5.5	125	0.00
33	Chrysene	0.400	0.381	4.8	122	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	142	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	132	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.413	-3.2	149	-0.03
37	Benzo(b)fluoranthene	0.400	0.397	0.8	133	-0.02
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	140	-0.02
39 C	Benzo(a)pyrene	0.400	0.384	4.0	134	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.392	2.0	144	-0.04
41	Benzo(g,h,i)perylene	0.400	0.390	2.5	134	-0.03

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/22/2025 10:19
 Lab File ID: BN037849.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.554		4.5	20.0
Fluoranthene-d10	1.004	0.954		-5.0	20.0
2-Fluorophenol	0.918	0.898		-2.2	20.0
Phenol-d6	1.191	1.119		-6.0	20.0
Nitrobenzene-d5	0.293	0.294		0.3	20.0
2-Fluorobiphenyl	1.673	1.673		0.0	20.0
2,4,6-Tribromophenol	0.104	0.116		11.5	20.0
Terphenyl-d14	0.812	0.726		-10.6	20.0
1,4-Dioxane	0.417	0.420		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037849.D
 Acq On : 22 Sep 2025 10:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

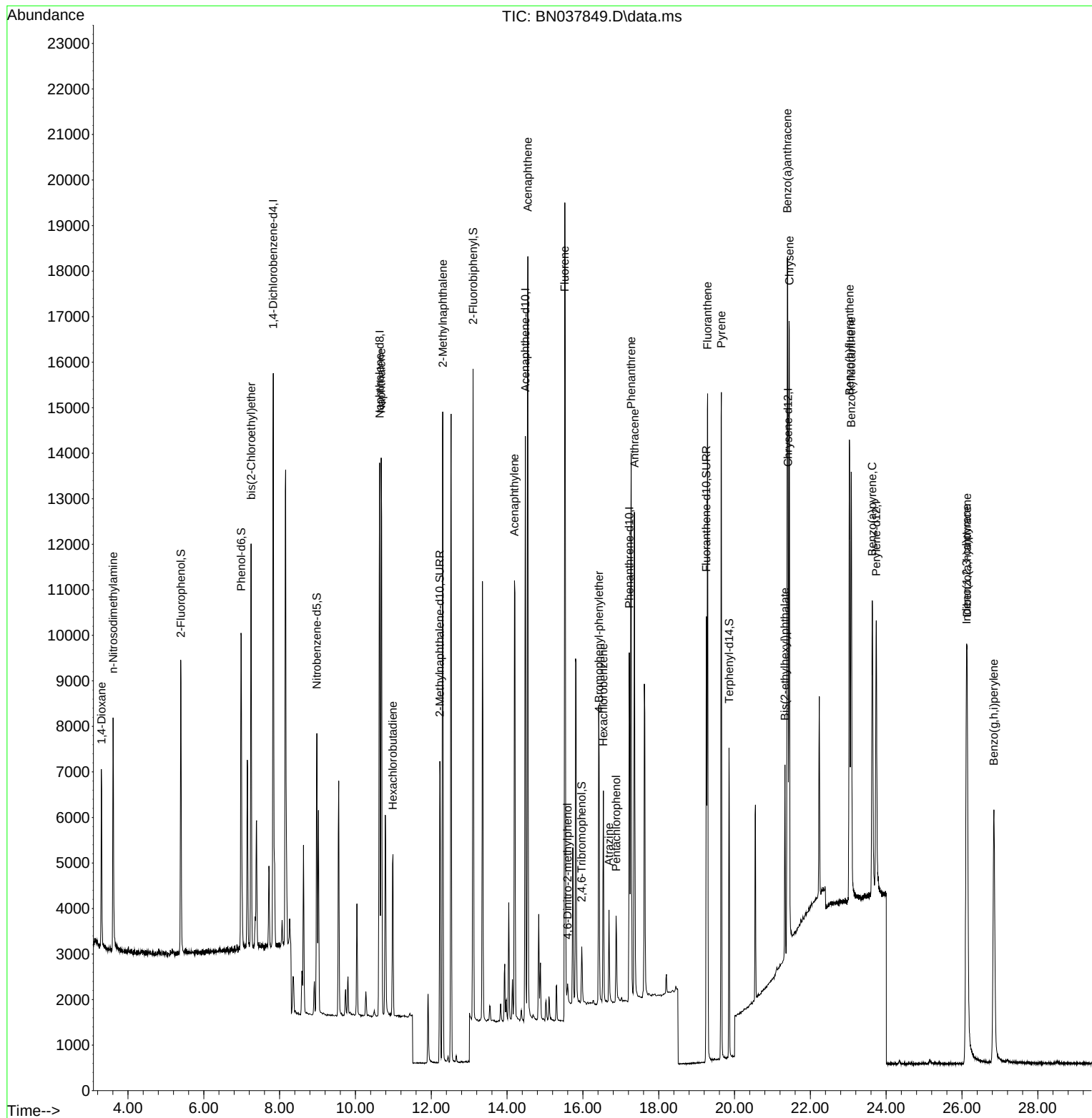
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	6007	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15935	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7024	0.400	ng	-0.01
19) Phenanthrene-d10	17.223	188	11177	0.400	ng	-0.01
29) Chrysene-d12	21.411	240	8688	0.400	ng	0.00
35) Perylene-d12	23.738	264	8600	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5395	0.391	ng	0.00
5) Phenol-d6	6.988	99	6719	0.376	ng	0.00
8) Nitrobenzene-d5	8.982	82	4692	0.403	ng	-0.01
11) 2-Methylnaphthalene-d10	12.227	152	8829	0.418	ng	-0.02
14) 2,4,6-Tribromophenol	15.969	330	812	0.443	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	11748	0.400	ng	-0.01
27) Fluoranthene-d10	19.257	212	10663	0.380	ng	-0.01
31) Terphenyl-d14	19.856	244	6310	0.358	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.304	88	2524	0.403	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.608	42	3046	0.373	ng	90
6) bis(2-Chloroethyl)ether	7.248	93	6305	0.395	ng	99
9) Naphthalene	10.680	128	16803	0.386	ng	100
10) Hexachlorobutadiene	10.989	225	2967	0.377	ng	# 100
12) 2-Methylnaphthalene	12.304	142	10097	0.375	ng	99
16) Acenaphthylene	14.195	152	11802	0.366	ng	99
17) Acenaphthene	14.548	154	8351	0.383	ng	99
18) Fluorene	15.522	166	9450	0.358	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	305	0.295	ng	# 65
21) 4-Bromophenyl-phenylether	16.429	248	2861	0.393	ng	95
22) Hexachlorobenzene	16.540	284	3680	0.439	ng	98
23) Atrazine	16.689	200	1643	0.354	ng	96
24) Pentachlorophenol	16.875	266	1064	0.437	ng	99
25) Phenanthrene	17.273	178	13567	0.386	ng	99
26) Anthracene	17.360	178	11399	0.366	ng	99
28) Fluoranthene	19.290	202	13302	0.345	ng	100
30) Pyrene	19.652	202	13103	0.385	ng	100
32) Benzo(a)anthracene	21.393	228	11214	0.370	ng	100
33) Chrysene	21.447	228	12655	0.389	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3687	0.410	ng	99
36) Indeno(1,2,3-cd)pyrene	26.118	276	14013	0.388	ng	99
37) Benzo(b)fluoranthene	23.031	252	13342	0.394	ng	# 94
38) Benzo(k)fluoranthene	23.078	252	13191	0.382	ng	# 94
39) Benzo(a)pyrene	23.633	252	10590	0.391	ng	# 92
40) Dibenzo(a,h)anthracene	26.136	278	10527	0.365	ng	99
41) Benzo(g,h,i)perylene	26.841	276	12869	0.398	ng	99

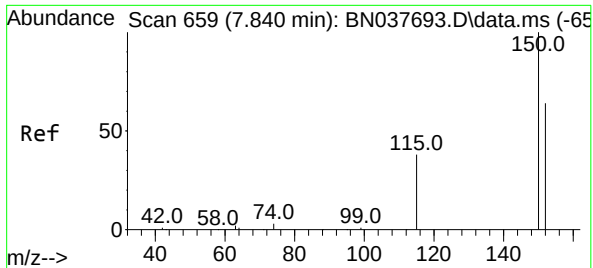
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

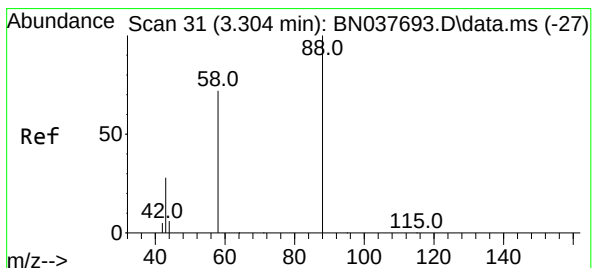
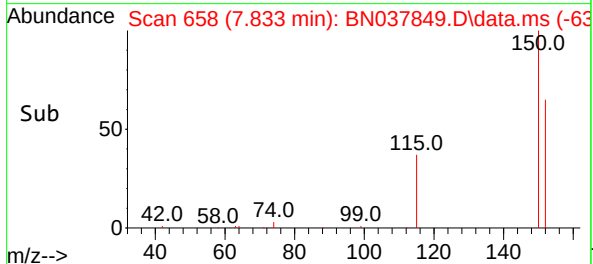
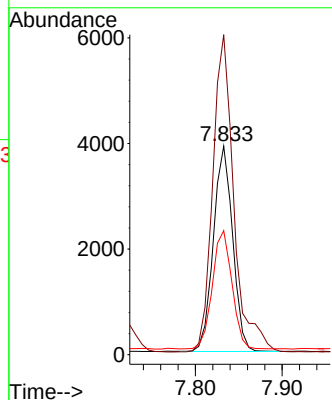
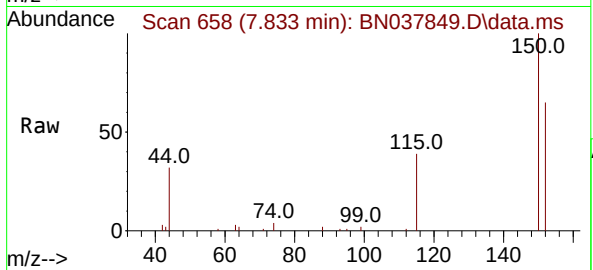




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

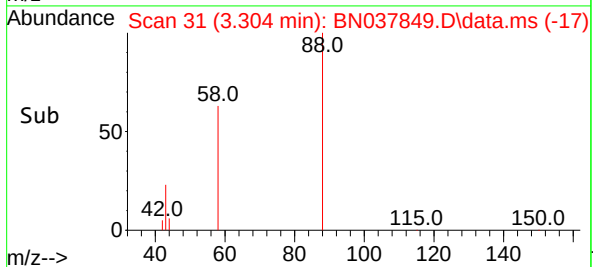
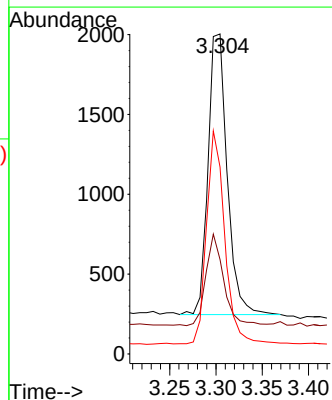
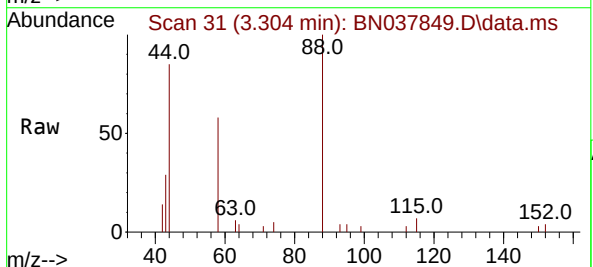
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

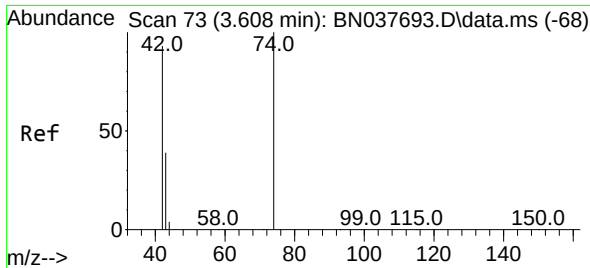
Tgt Ion:152 Resp: 6007
Ion Ratio Lower Upper
152 100
150 153.4 124.5 186.7
115 59.4 49.2 73.8



#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 88 Resp: 2524
Ion Ratio Lower Upper
88 100
43 30.0 26.8 40.2
58 72.1 61.9 92.9

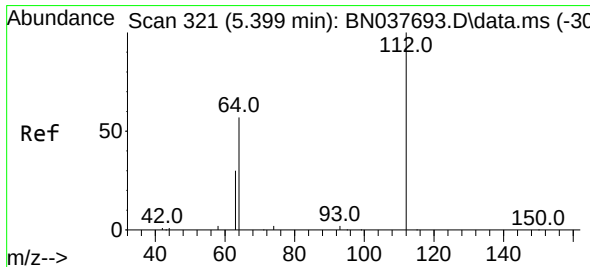
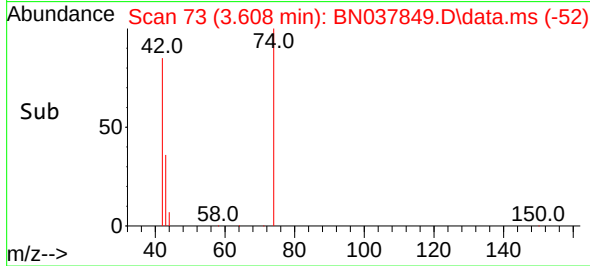
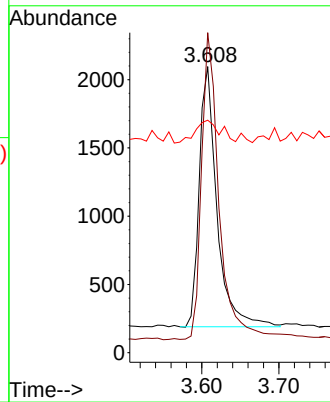
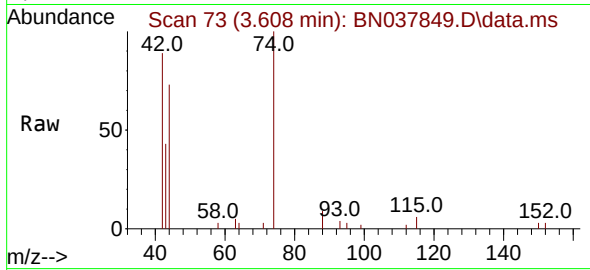




#3
n-Nitrosodimethylamine
Concen: 0.373 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

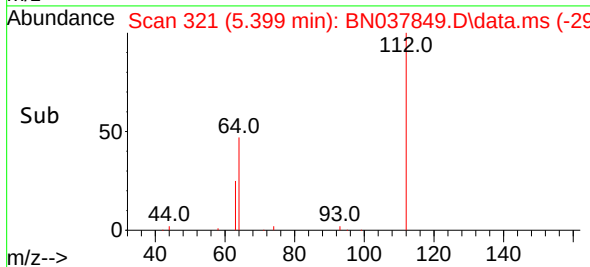
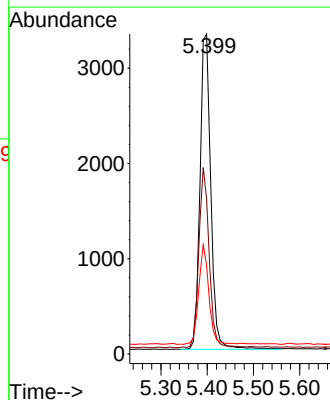
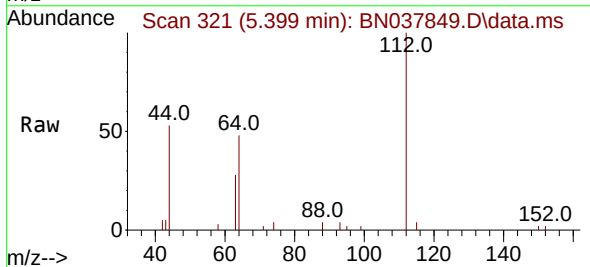
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

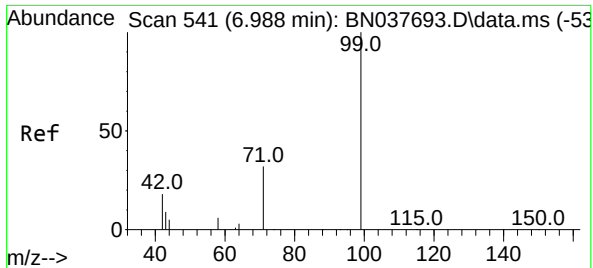
Tgt Ion: 42 Resp: 3046
Ion Ratio Lower Upper
42 100
74 118.2 86.0 129.0
44 11.2 8.4 12.6



#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 112 Resp: 5395
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 29.5 24.7 37.1



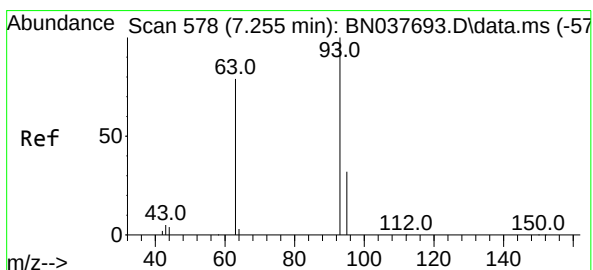
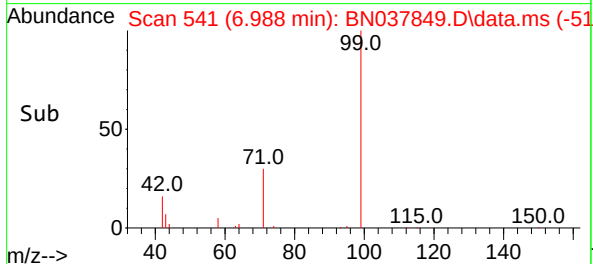
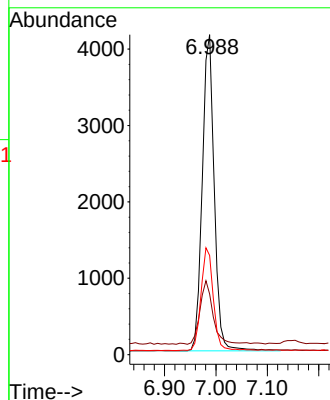
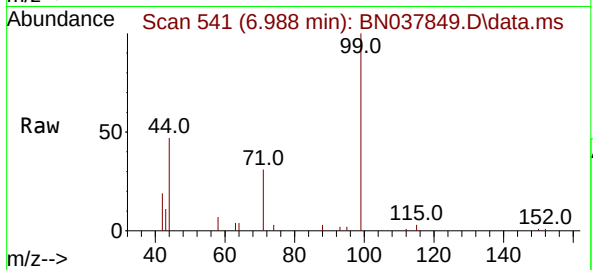


#5
Phenol-d6
Concen: 0.376 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6719

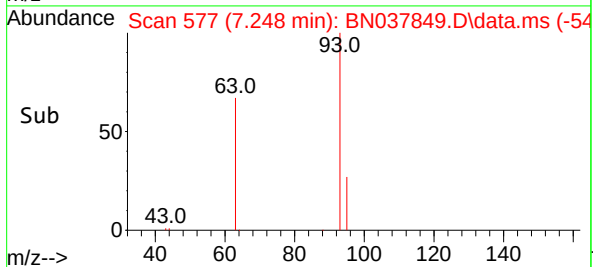
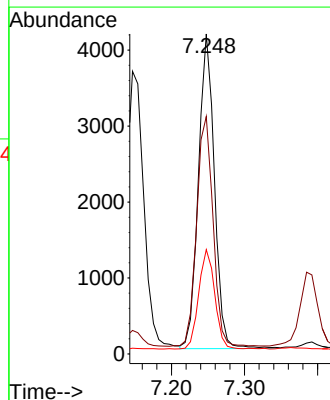
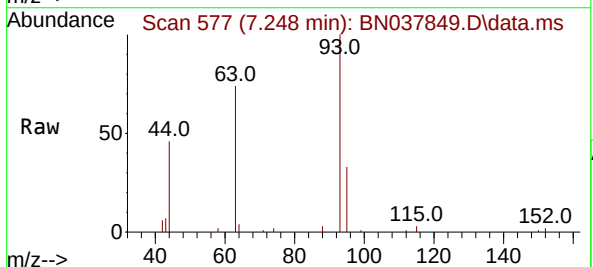
Ion	Ratio	Lower	Upper
99	100		
42	21.7	16.6	24.8
71	33.3	26.7	40.1

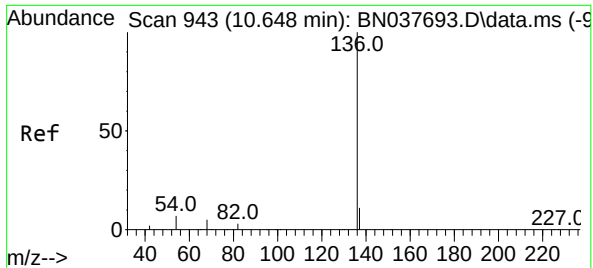


#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion: 93 Resp: 6305

Ion	Ratio	Lower	Upper
93	100		
63	74.6	60.6	90.8
95	31.6	26.0	39.0

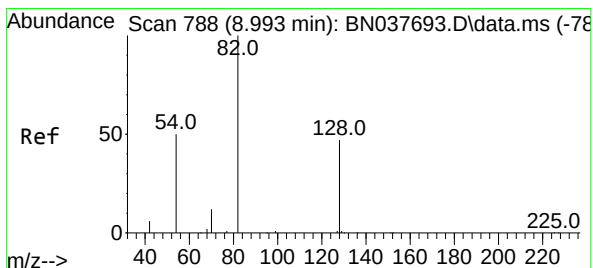
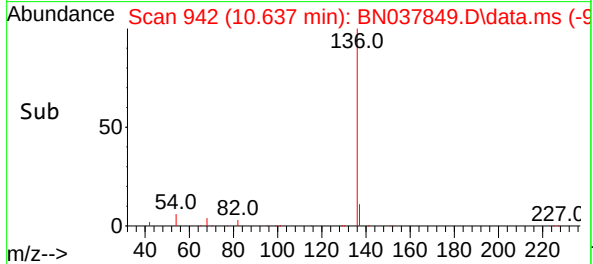
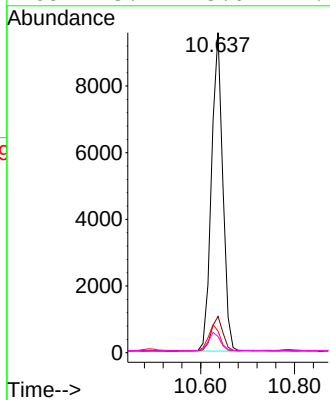
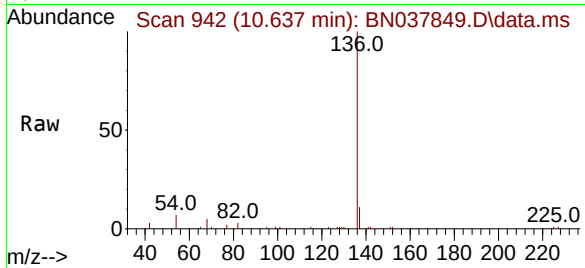




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

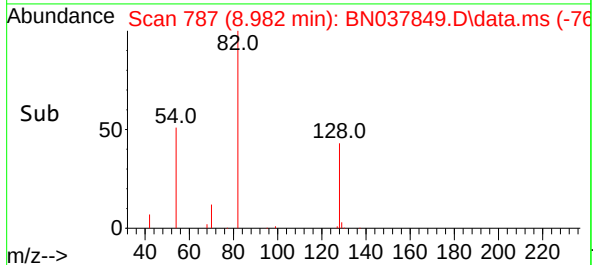
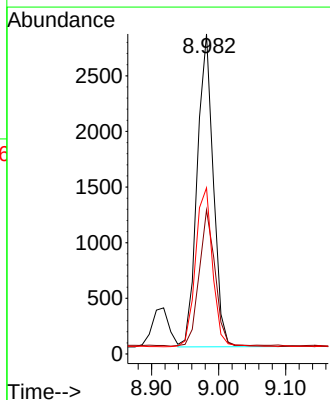
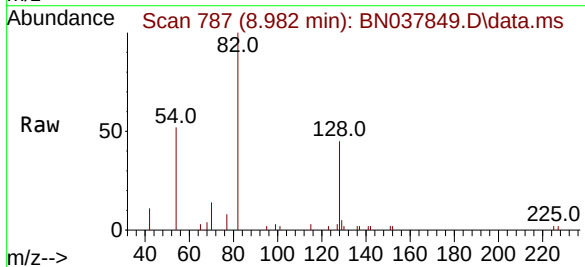
Instrument :
BNA_N
ClientSampleId :
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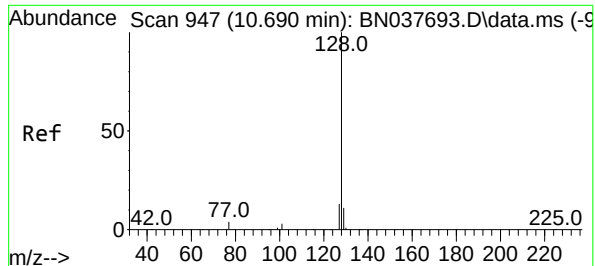
Tgt Ion:	136	Resp:	15935
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	6.7	6.3	9.5
68	5.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.403 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	82	Resp:	4692
Ion	Ratio	Lower	Upper
82	100		
128	45.0	38.3	57.5
54	51.9	41.4	62.2

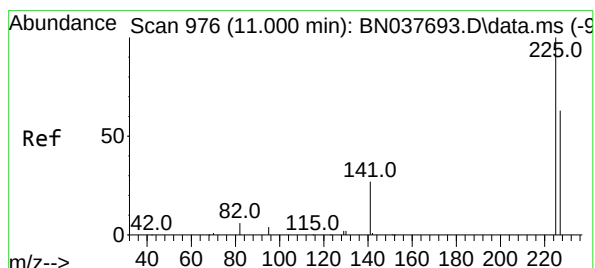
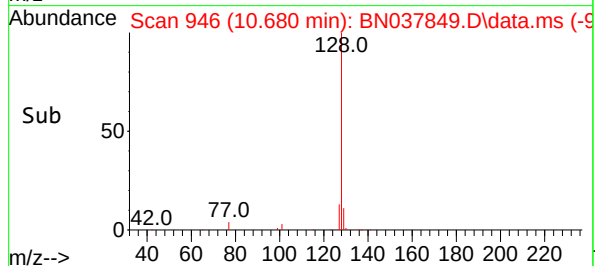
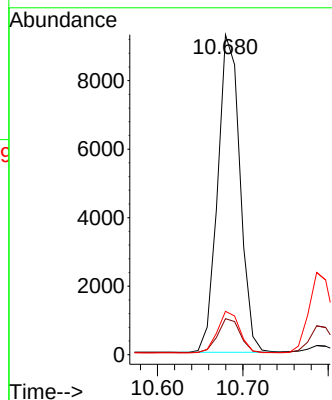
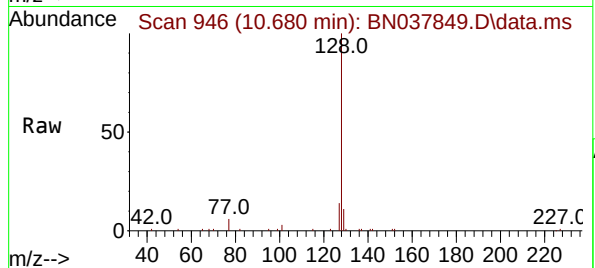




#9
Naphthalene
Concen: 0.386 ng
RT: 10.680 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

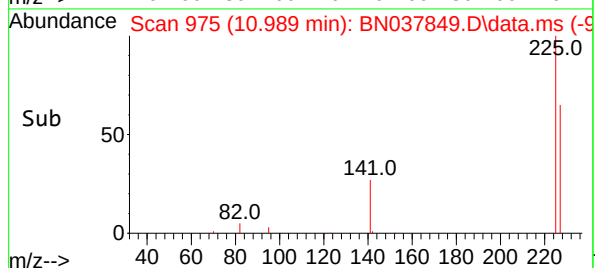
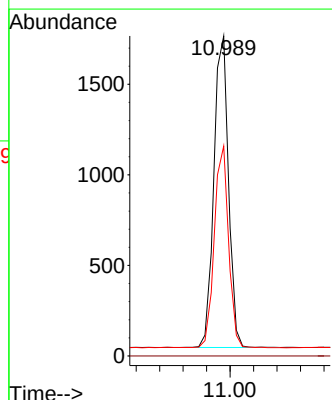
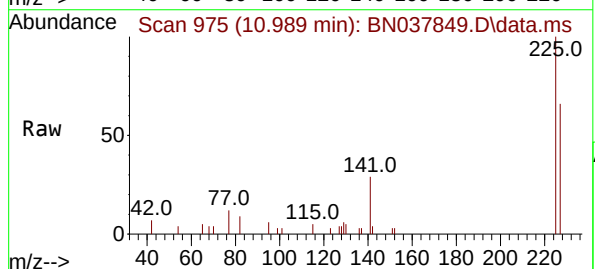
Instrument :
BNA_N
ClientSampleId :
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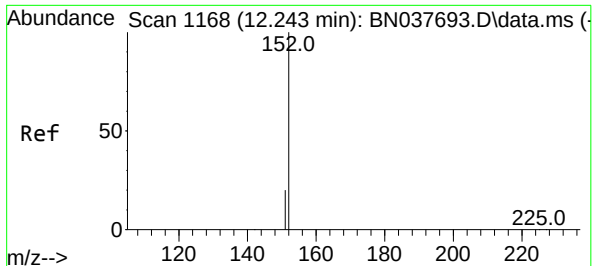
Tgt Ion:	128	Resp:	16803
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.1	13.7
127	13.5	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	225	Resp:	2967
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3

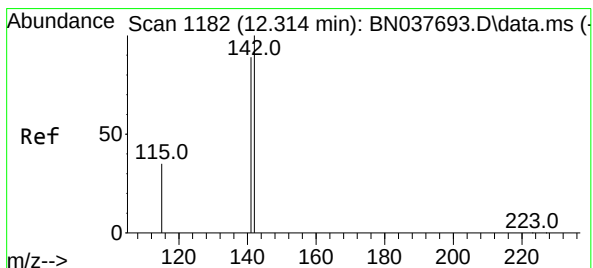
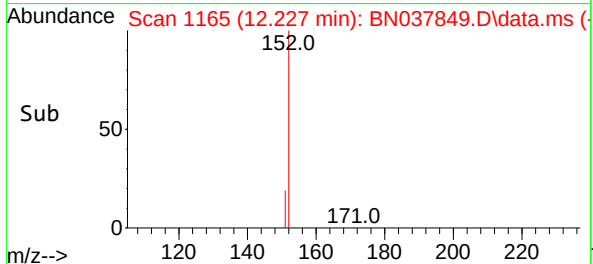
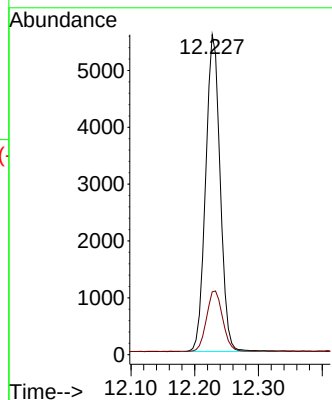
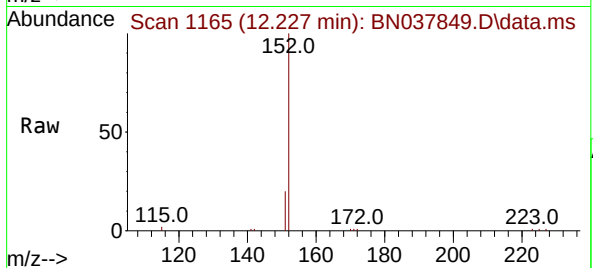




#11
2-Methylnaphthalene-d10
Concen: 0.418 ng
RT: 12.227 min Scan# 1165
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

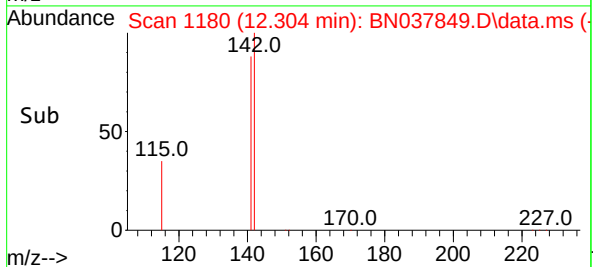
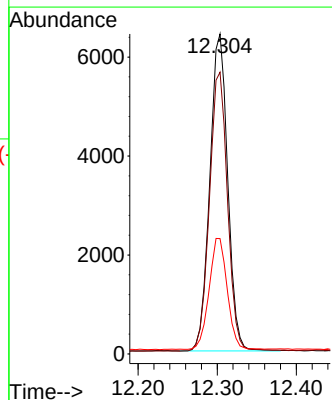
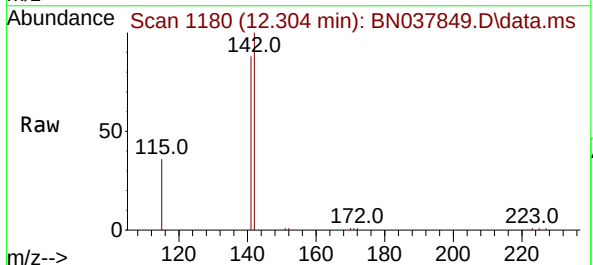
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BNA_N
ClientSampleId :
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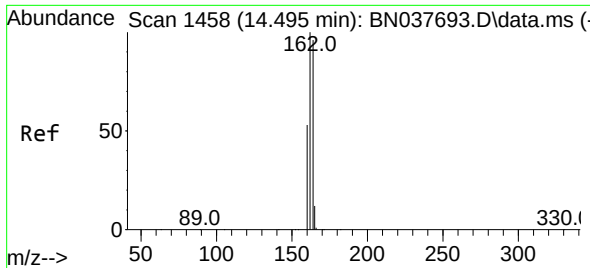
Tgt Ion:152 Resp: 8829
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:142 Resp: 10097
Ion Ratio Lower Upper
142 100
141 88.1 71.6 107.4
115 36.1 28.6 43.0

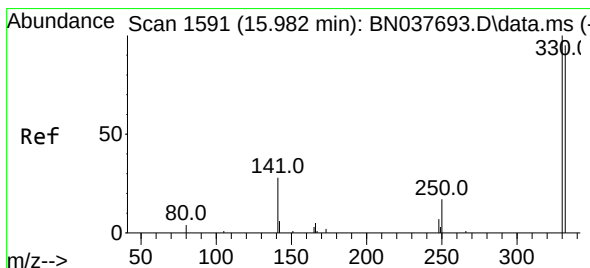
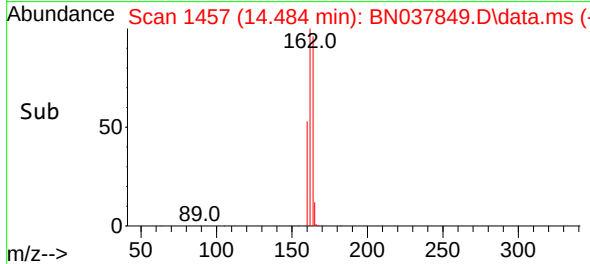
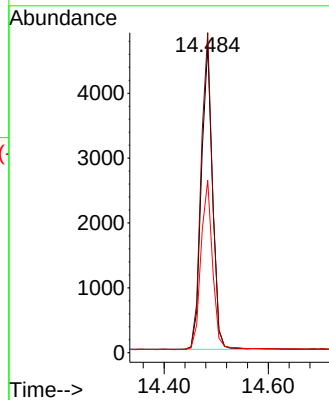
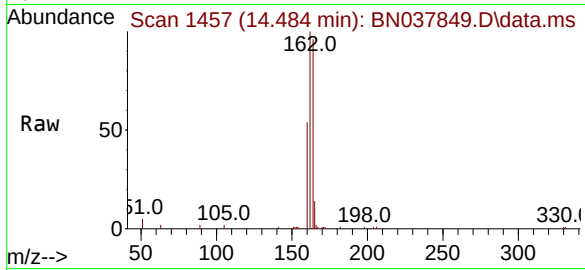




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

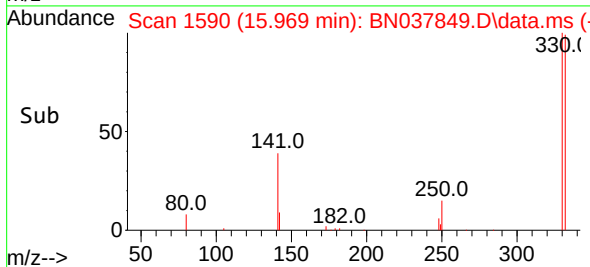
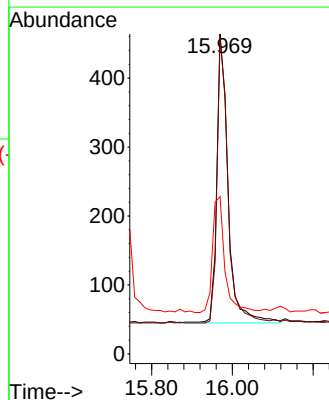
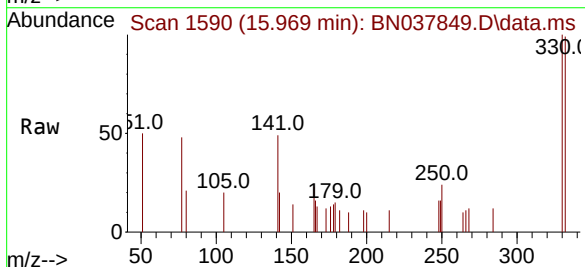
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ClientSampleId :
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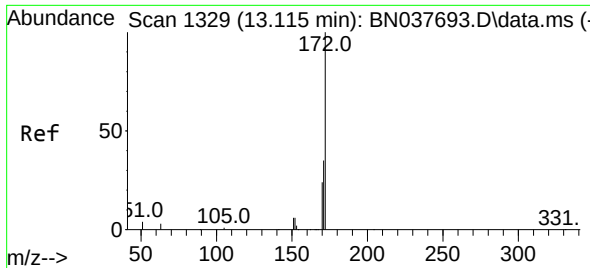
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	83.1	124.7
160	56.1	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.443 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.3	112.9
141	44.0	35.0	52.4

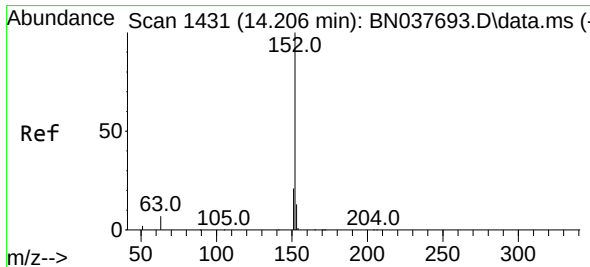
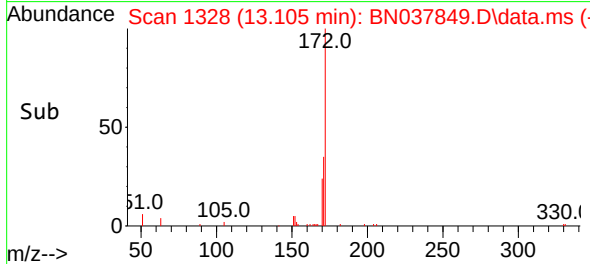
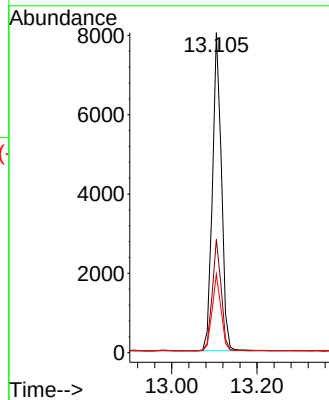
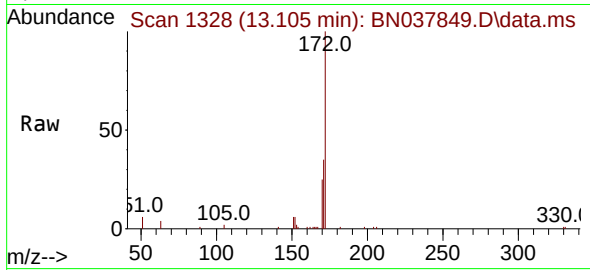




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 13.105 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

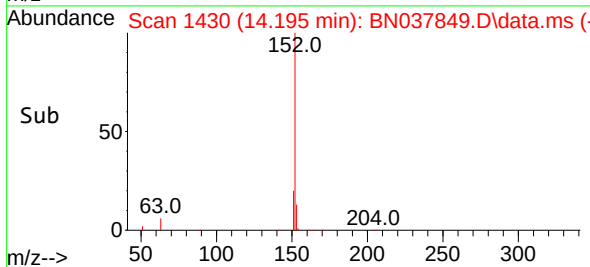
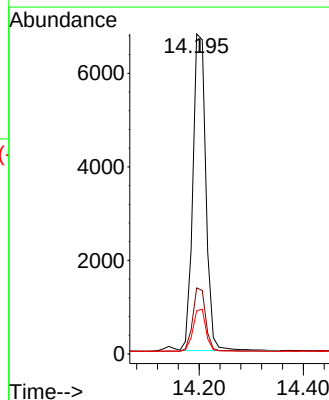
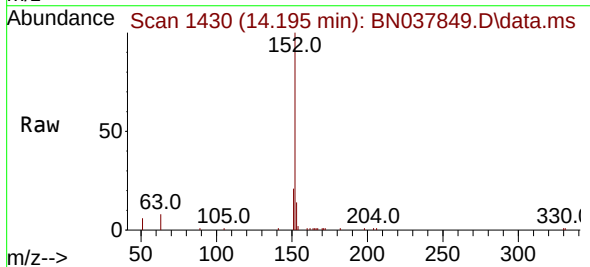
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

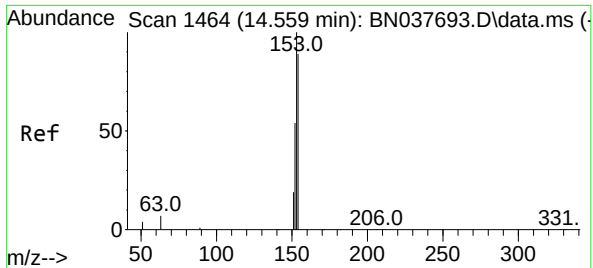
Tgt Ion:	172	Resp:	11748
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	24.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	152	Resp:	11802
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.8	10.4	15.6

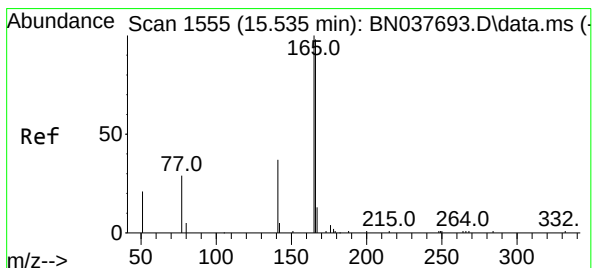
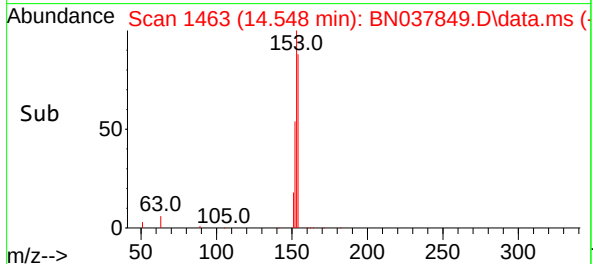
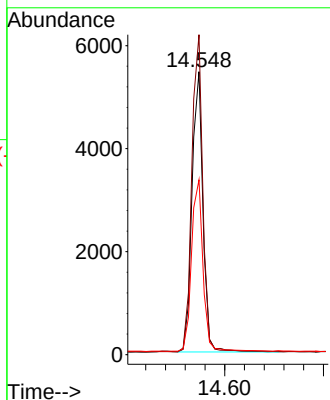
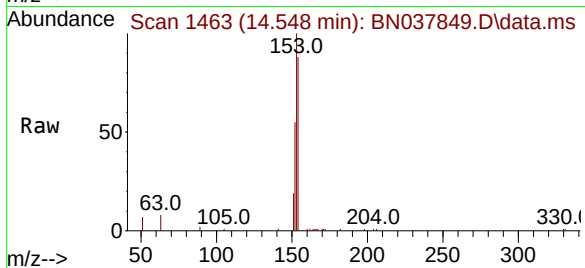




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

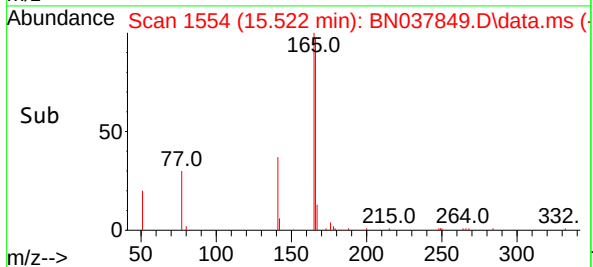
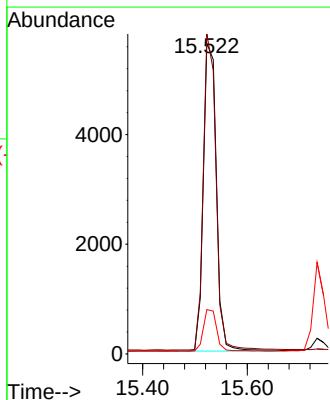
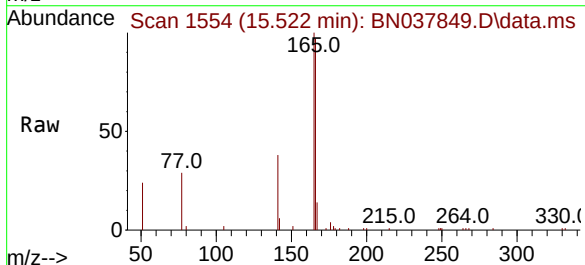
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

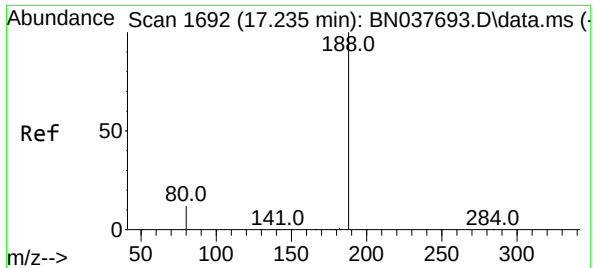
Tgt Ion:154 Resp: 8351
Ion Ratio Lower Upper
154 100
153 113.6 89.8 134.8
152 64.3 50.2 75.2



#18
Fluorene
Concen: 0.358 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:166 Resp: 9450
Ion Ratio Lower Upper
166 100
165 99.4 79.6 119.4
167 14.0 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

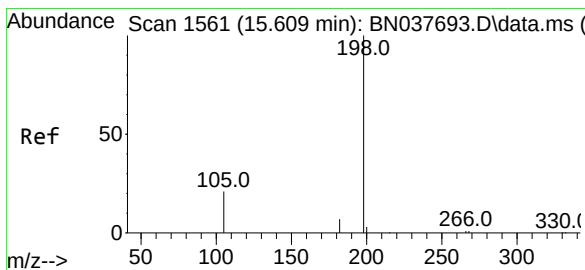
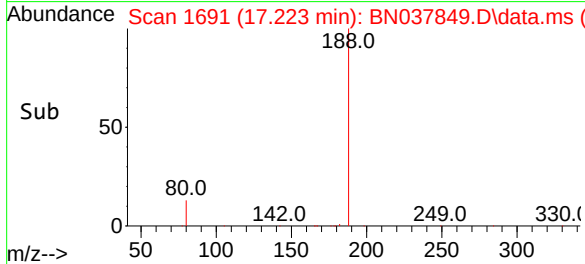
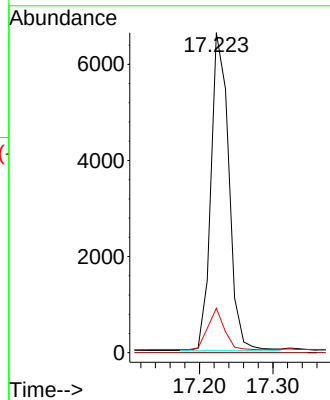
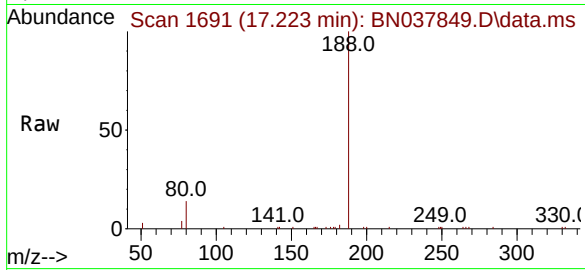
Tgt Ion:188 Resp: 11177

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 10.6 15.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.012 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

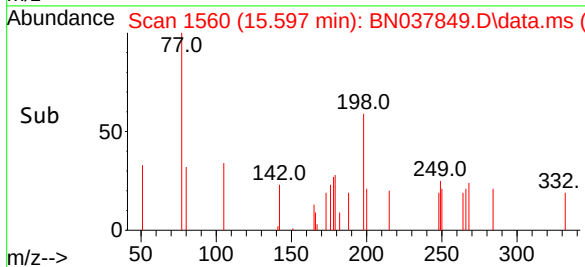
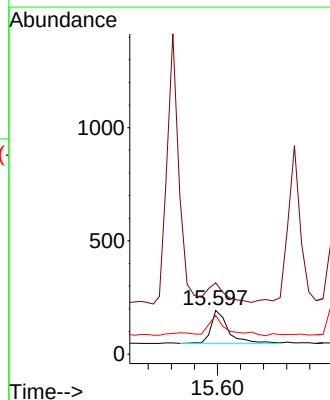
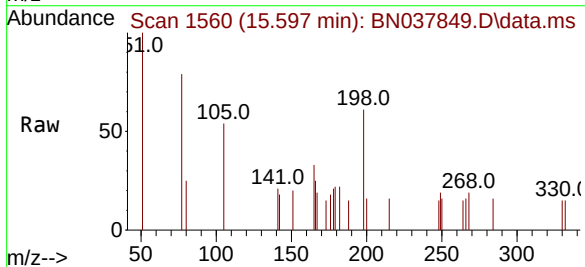
Tgt Ion:198 Resp: 305

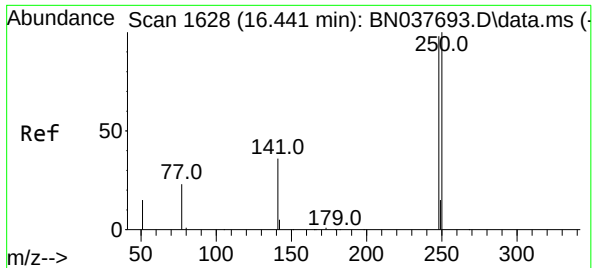
Ion Ratio Lower Upper

198 100

51 163.2 95.1 142.7#

105 88.1 53.8 80.6#

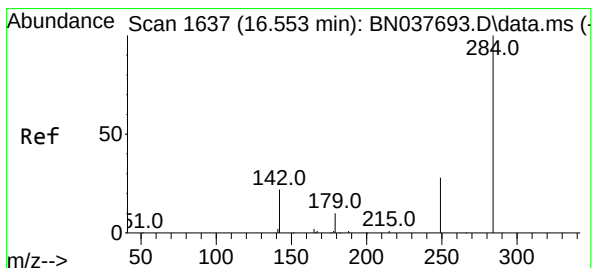
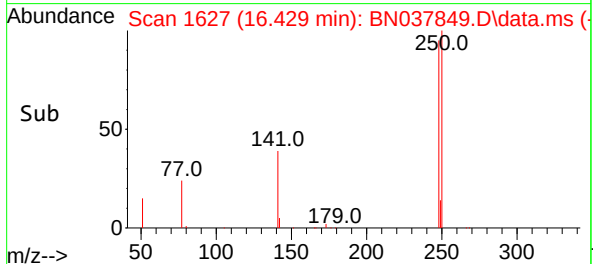
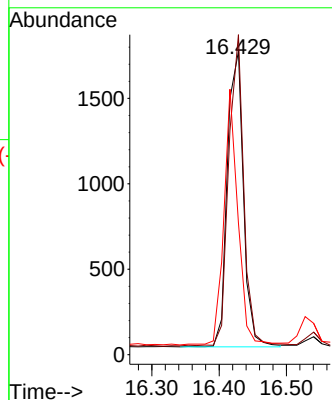
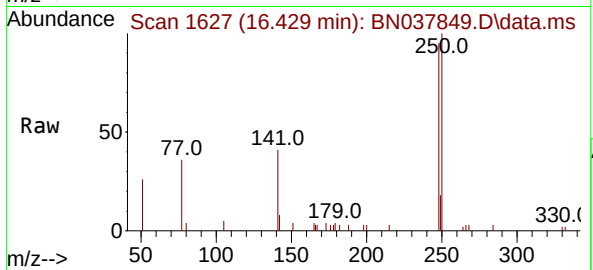




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

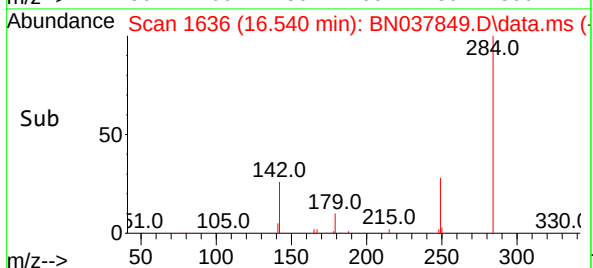
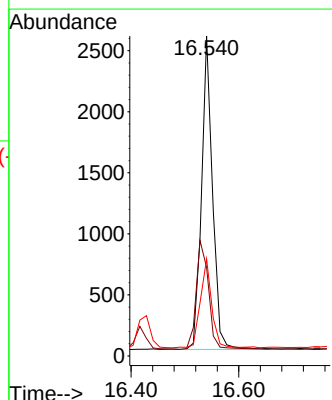
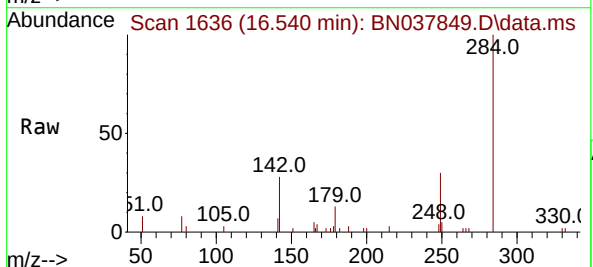
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

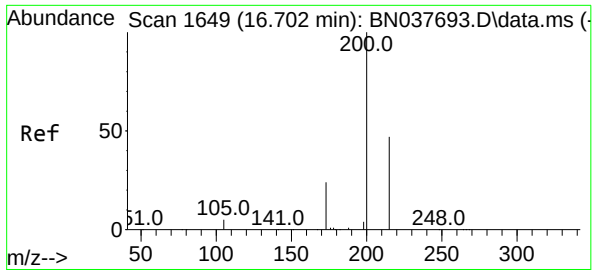
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.5	81.5	122.3
141	43.4	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.439 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	29.0	24.8	37.2

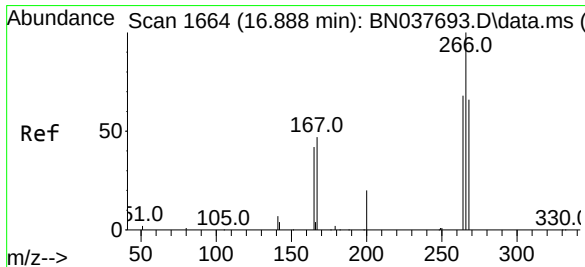
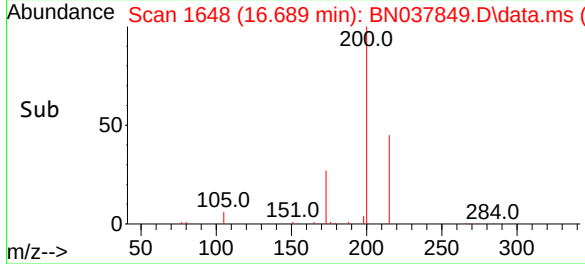
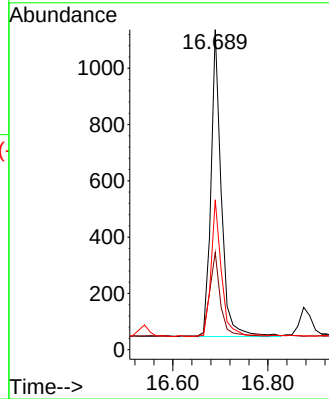
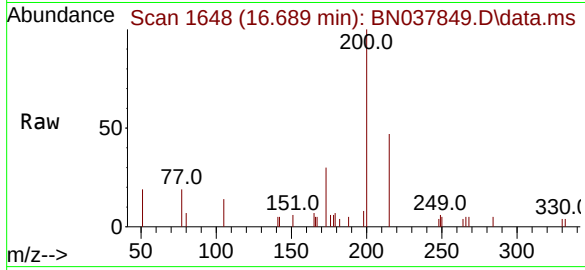




#23
Atrazine
Concen: 0.354 ng
RT: 16.689 min Scan# 1643
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

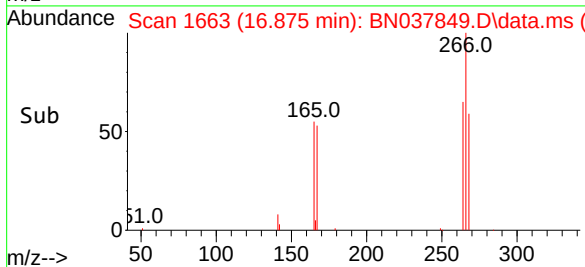
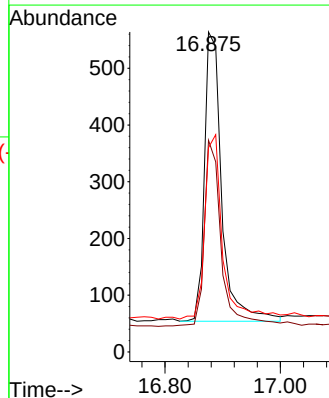
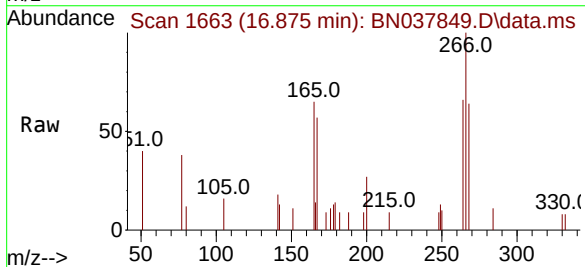
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

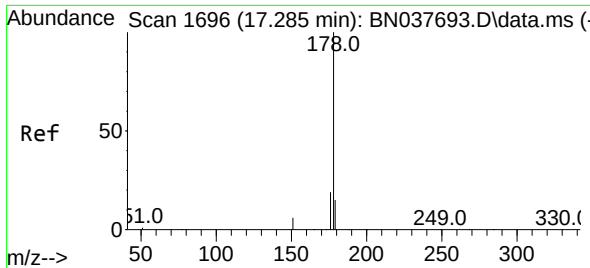
Tgt Ion:	200	Resp:	1643
Ion Ratio	Lower	Upper	
200	100		
173	30.4	21.4	32.2
215	46.9	39.2	58.8



#24
Pentachlorophenol
Concen: 0.437 ng
RT: 16.875 min Scan# 1663
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:	266	Resp:	1064
Ion Ratio	Lower	Upper	
266	100		
264	64.1	51.6	77.4
268	65.9	53.2	79.8

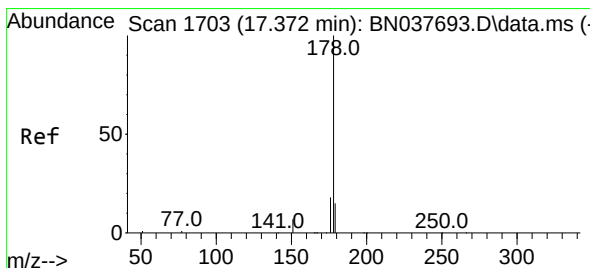
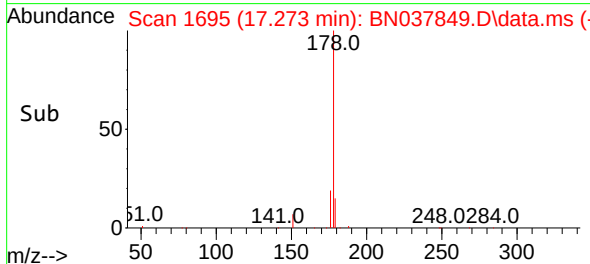
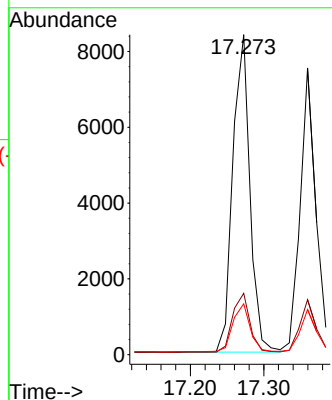
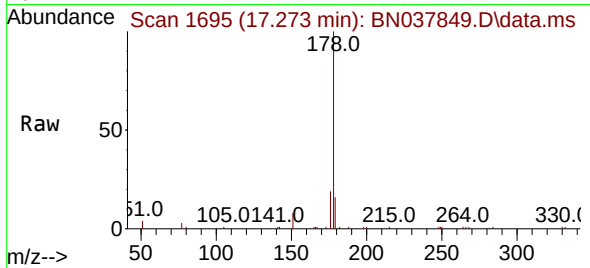




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

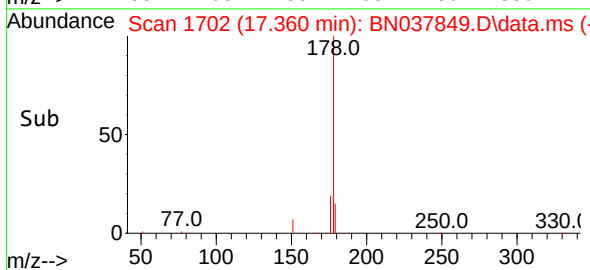
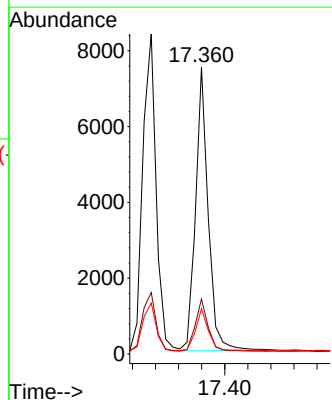
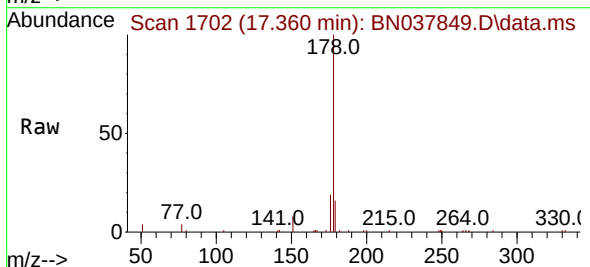
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

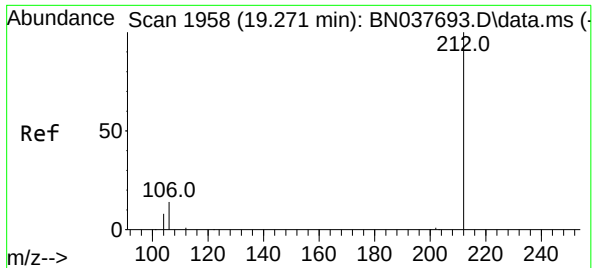
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.366 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.1	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.257 min Scan# 1955

Delta R.T. -0.014 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

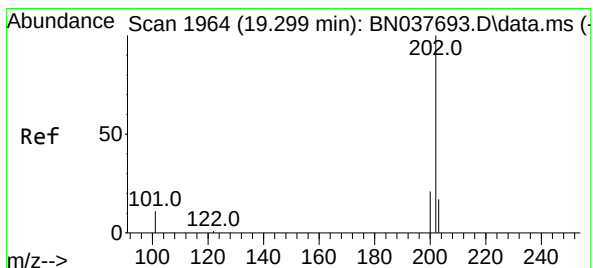
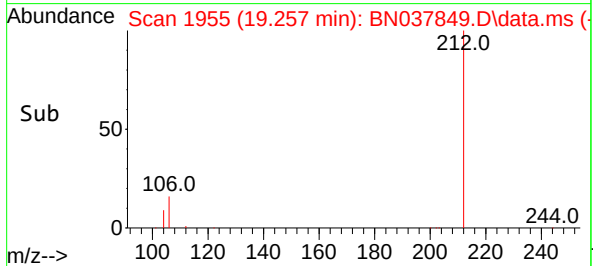
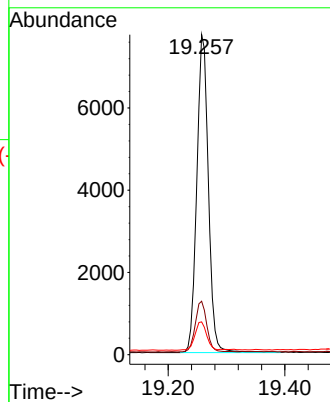
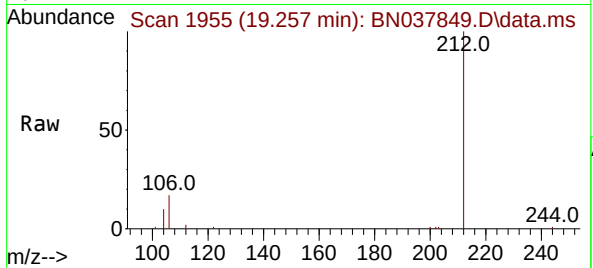
Tgt Ion:212 Resp: 10663

Ion Ratio Lower Upper

212 100

106 15.9 12.2 18.2

104 9.0 6.9 10.3



#28

Fluoranthene

Concen: 0.345 ng

RT: 19.290 min Scan# 1962

Delta R.T. -0.009 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

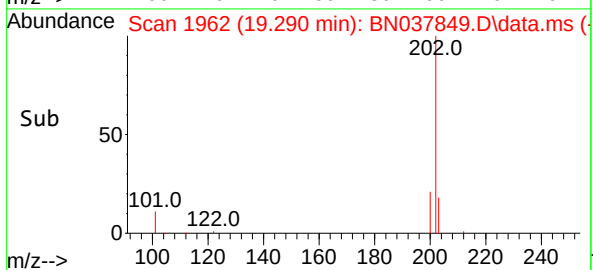
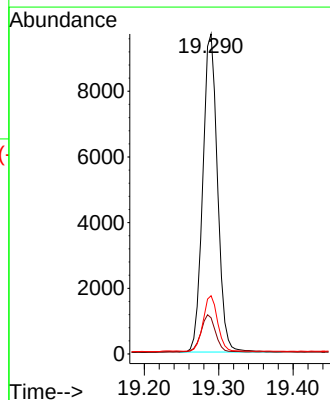
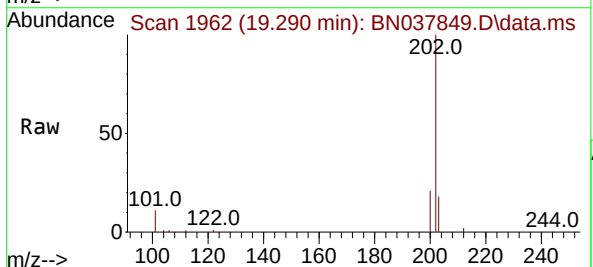
Tgt Ion:202 Resp: 13302

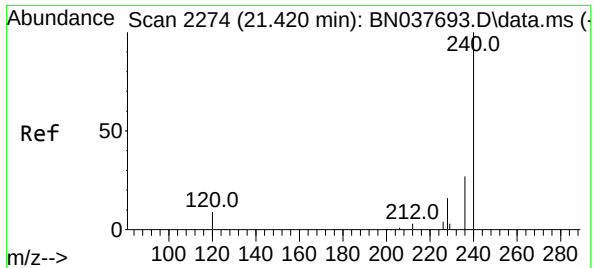
Ion Ratio Lower Upper

202 100

101 11.5 9.3 13.9

203 17.1 13.7 20.5

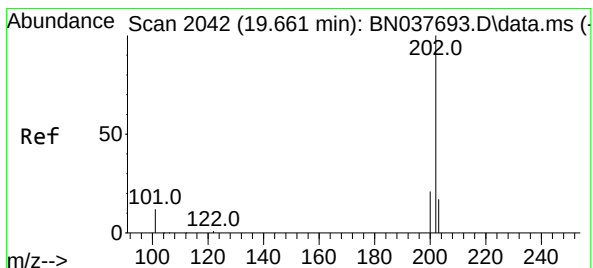
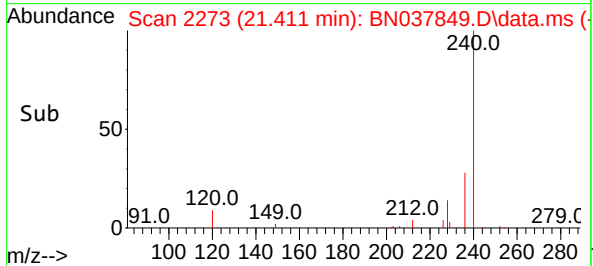
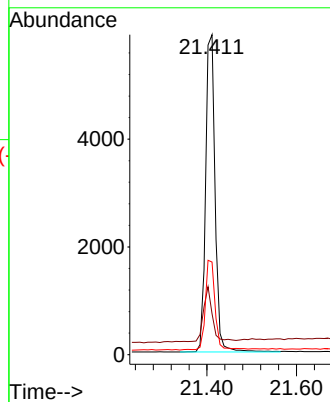
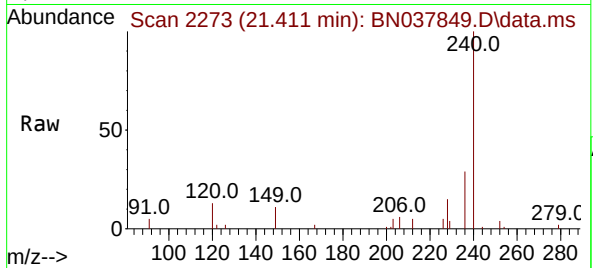




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

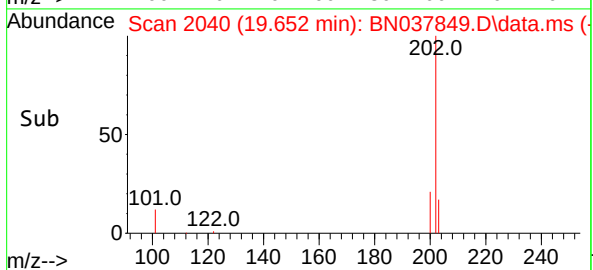
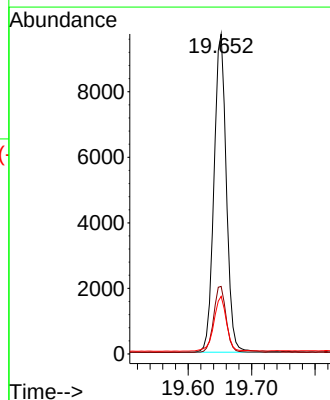
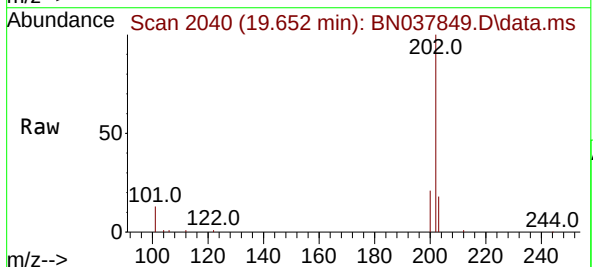
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

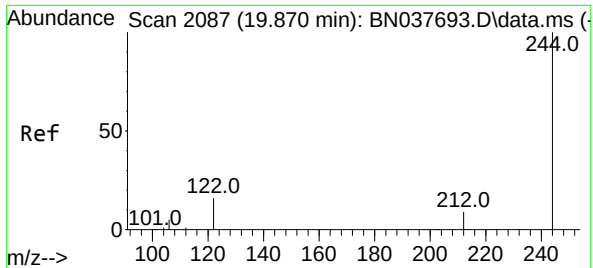
Tgt Ion:240 Resp: 8688
Ion Ratio Lower Upper
240 100
120 12.8 9.2 13.8
236 29.0 22.6 33.8



#30
Pyrene
Concen: 0.385 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:202 Resp: 13103
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.8 14.3 21.5

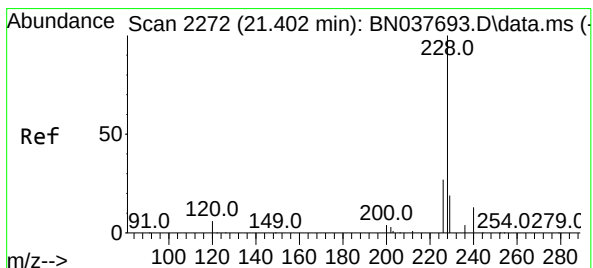
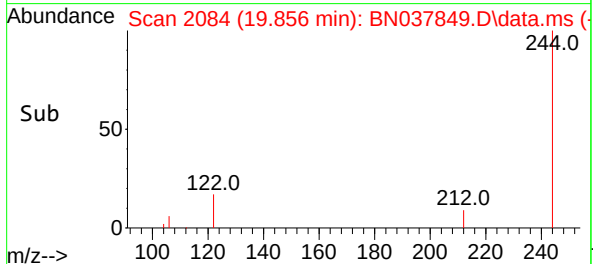
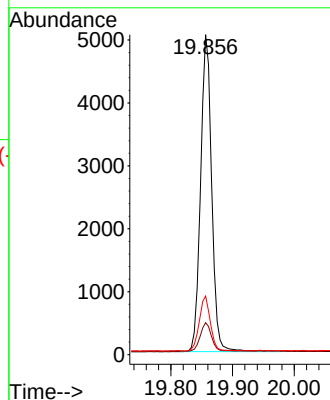
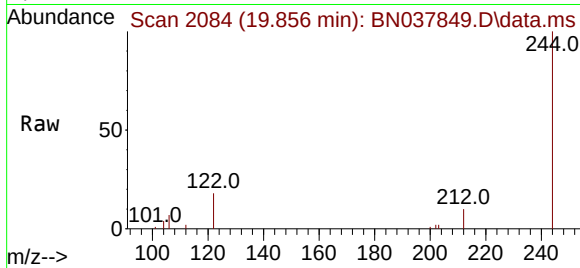




#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

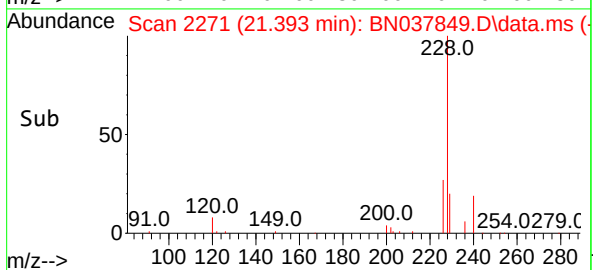
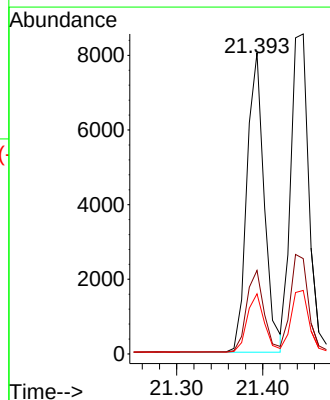
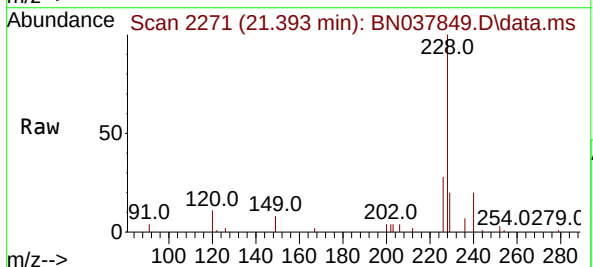
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

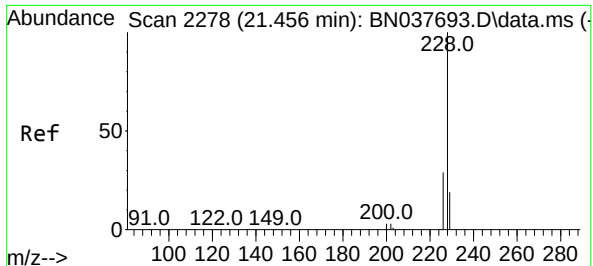
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	18.3	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.0	15.8	23.6





#33

Chrysene

Concen: 0.389 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

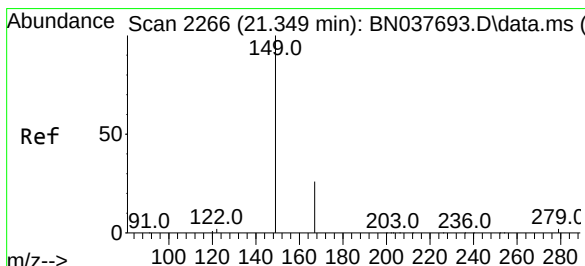
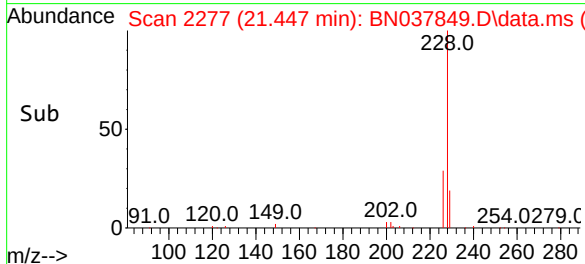
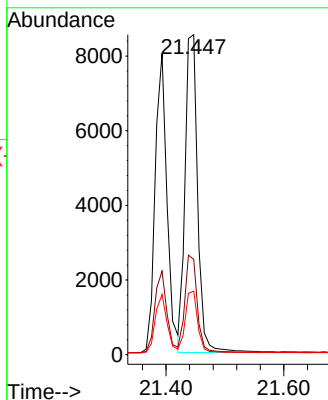
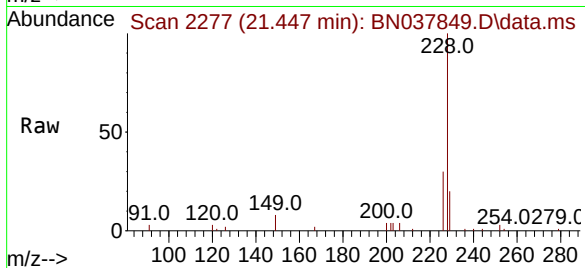
Tgt Ion:228 Resp: 12655

Ion Ratio Lower Upper

228 100

226 29.8 23.5 35.3

229 19.9 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.410 ng

RT: 21.331 min Scan# 2264

Delta R.T. -0.018 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

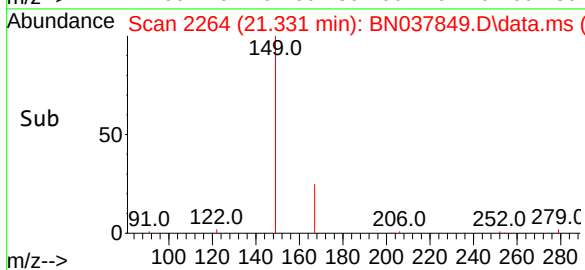
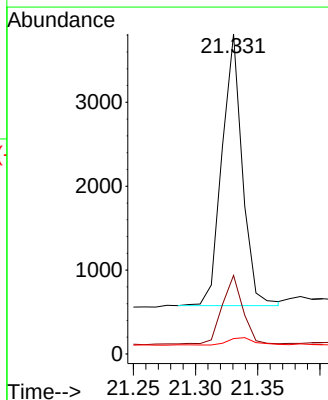
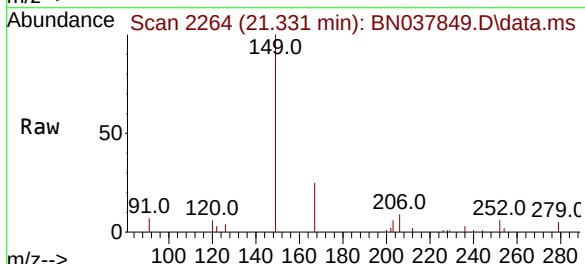
Tgt Ion:149 Resp: 3687

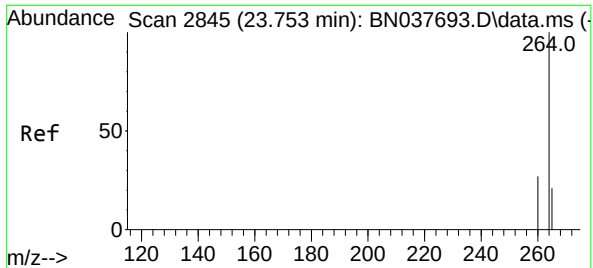
Ion Ratio Lower Upper

149 100

167 25.4 20.8 31.2

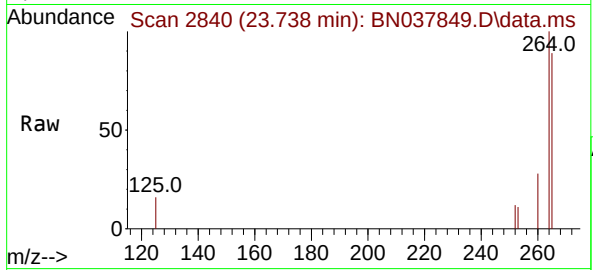
279 3.3 3.3 4.9



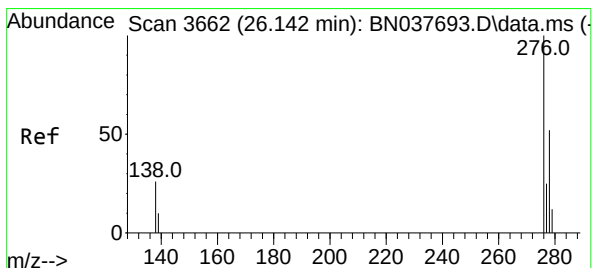
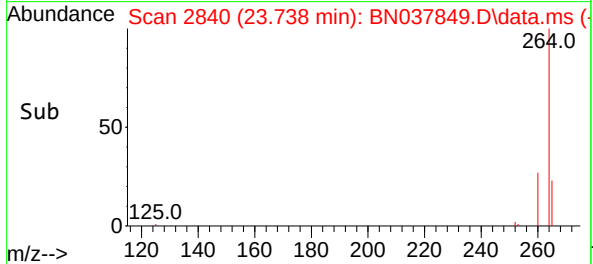
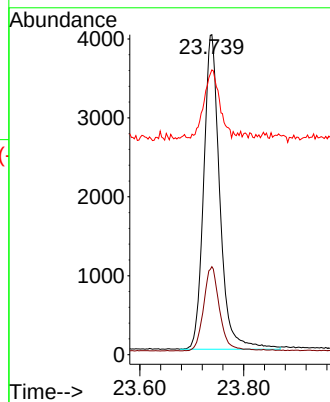


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.738 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

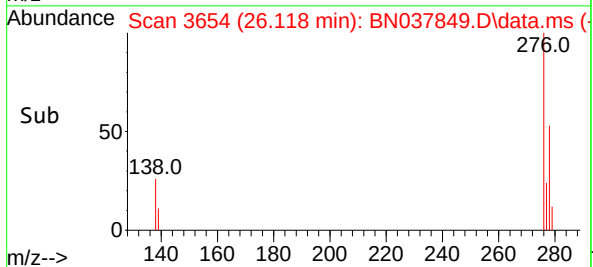
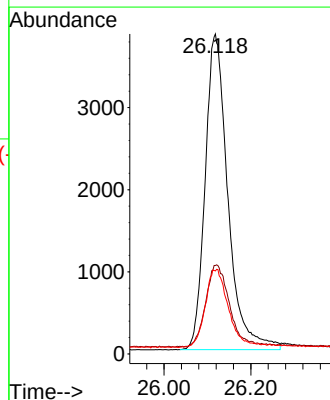
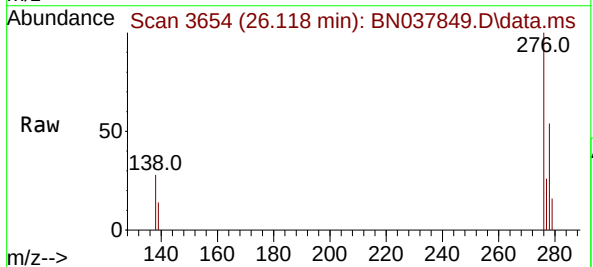


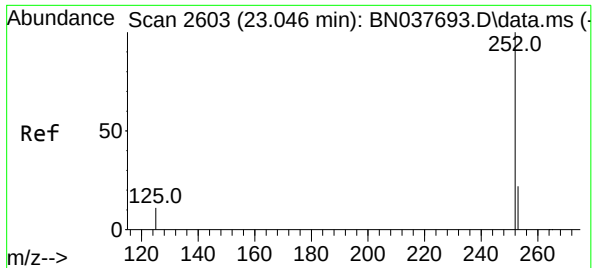
Tgt Ion:264 Resp: 8600
Ion Ratio Lower Upper
264 100
260 27.5 21.8 32.8
265 89.0 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.388 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.023 min
Lab File: BN037849.D
Acq: 22 Sep 2025 10:19

Tgt Ion:276 Resp: 14013
Ion Ratio Lower Upper
276 100
138 26.6 21.9 32.9
277 25.4 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 23.031 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

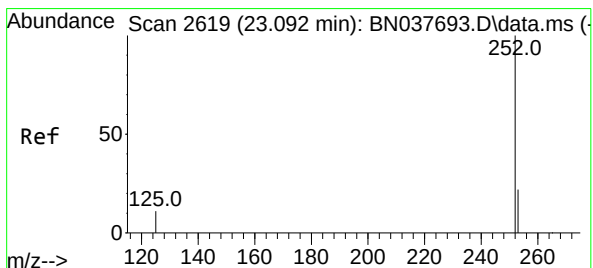
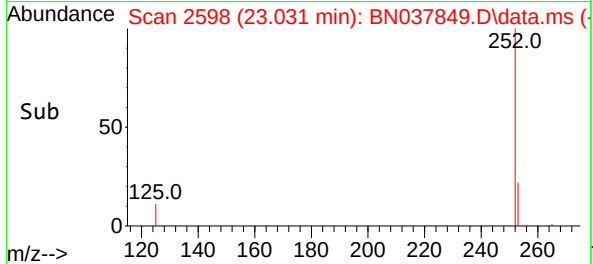
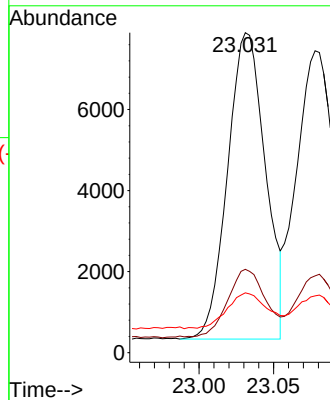
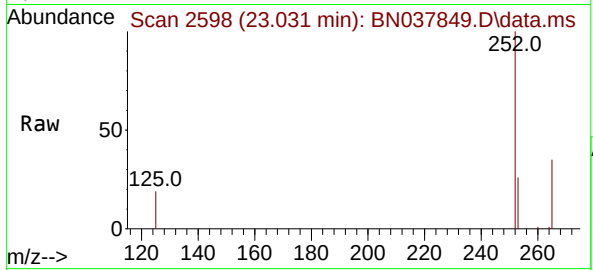
Tgt Ion:252 Resp: 13342

Ion Ratio Lower Upper

252 100

253 26.1 19.4 29.2

125 18.7 11.2 16.8#



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 23.078 min Scan# 2614

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

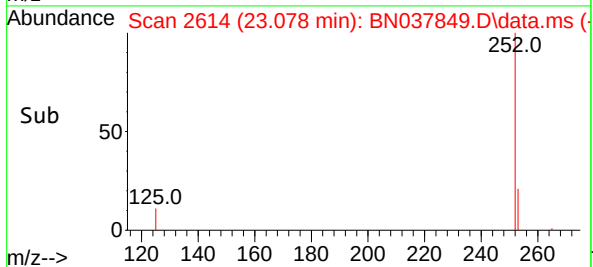
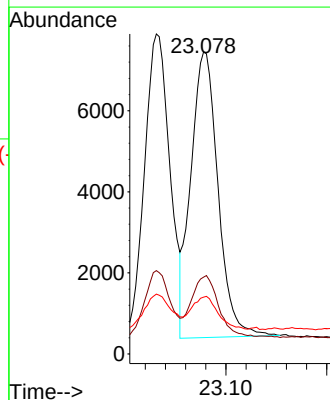
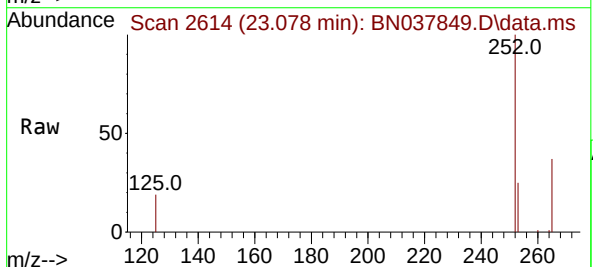
Tgt Ion:252 Resp: 13191

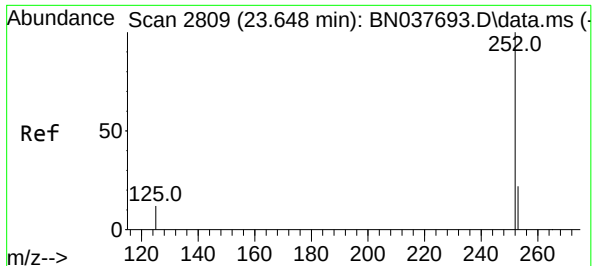
Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.0

125 18.8 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.633 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

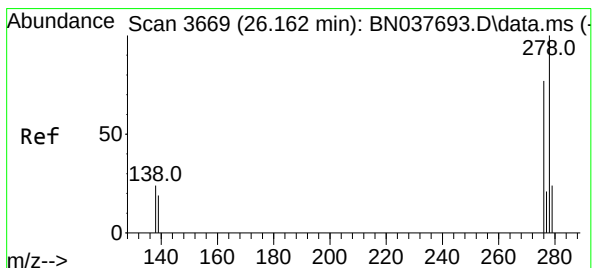
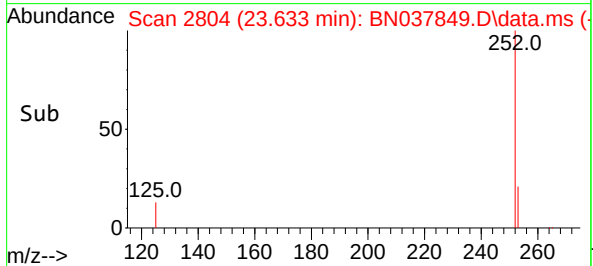
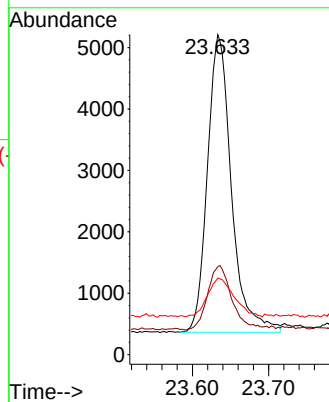
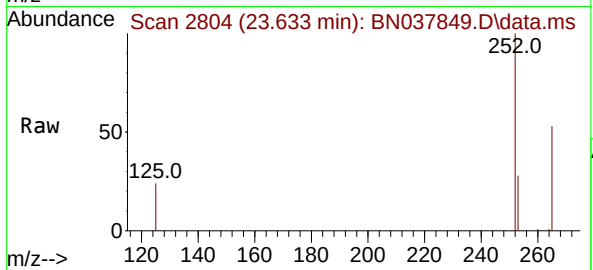
Tgt Ion:252 Resp: 10590

Ion Ratio Lower Upper

252 100

253 27.5 20.8 31.2

125 23.9 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.136 min Scan# 3660

Delta R.T. -0.026 min

Lab File: BN037849.D

Acq: 22 Sep 2025 10:19

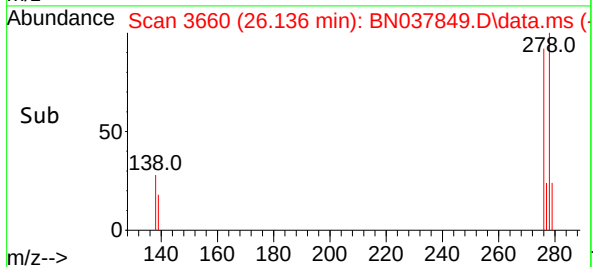
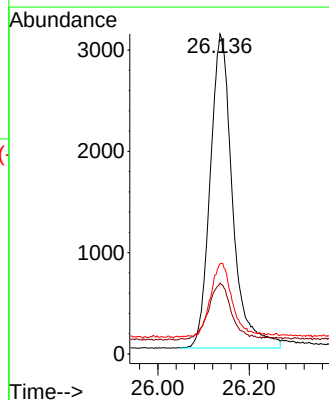
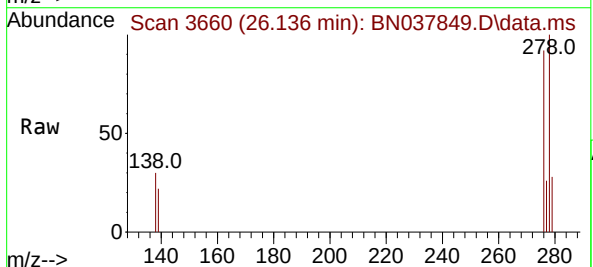
Tgt Ion:278 Resp: 10527

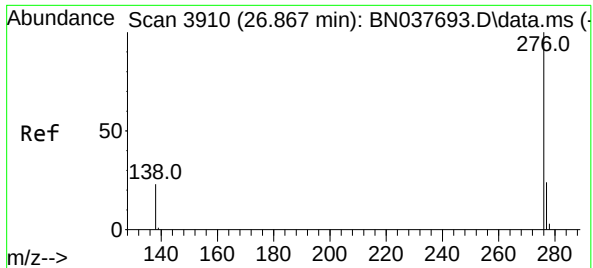
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 28.2 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.841 min Scan# 3910

Delta R.T. -0.026 min

Lab File: BN037849.D

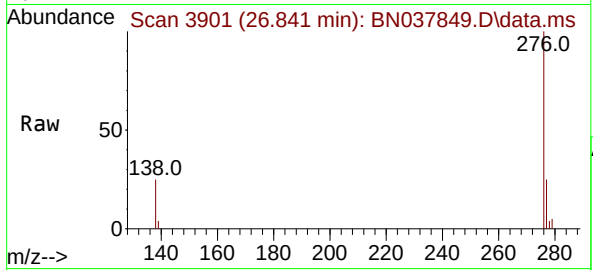
Acq: 22 Sep 2025 10:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



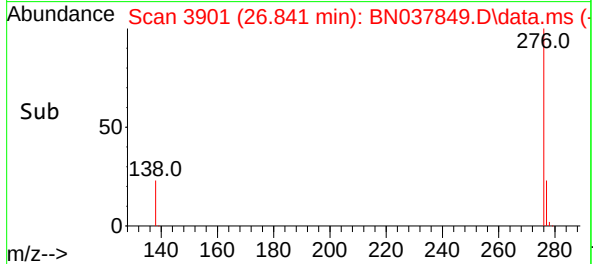
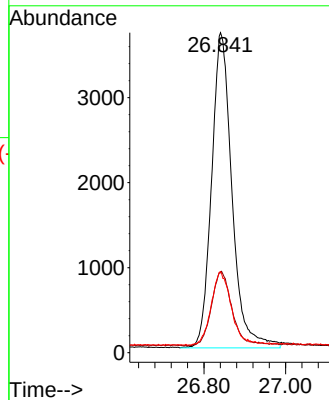
Tgt Ion:276 Resp: 12869

Ion Ratio Lower Upper

276 100

277 25.0 20.6 31.0

138 25.3 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037849.D
 Acq On : 22 Sep 2025 10:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 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	120	0.00
2	1,4-Dioxane	0.417	0.420	-0.7	120	0.00
3	n-Nitrosodimethylamine	0.544	0.507	6.8	108	0.00
4 S	2-Fluorophenol	0.918	0.898	2.2	121	0.00
5 S	Phenol-d6	1.191	1.119	6.0	116	0.00
6	bis(2-Chloroethyl)ether	1.064	1.050	1.3	118	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	120	-0.01
8 S	Nitrobenzene-d5	0.293	0.294	-0.3	124	-0.01
9	Naphthalene	1.093	1.054	3.6	118	-0.01
10	Hexachlorobutadiene	0.198	0.186	6.1	113	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.554	-4.5	134	-0.02
12	2-Methylnaphthalene	0.676	0.634	6.2	116	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.116	-11.5	130	-0.01
15 S	2-Fluorobiphenyl	1.673	1.673	0.0	115	-0.01
16	Acenaphthylene	1.834	1.680	8.4	107	-0.01
17	Acenaphthene	1.240	1.189	4.1	111	-0.01
18	Fluorene	1.502	1.345	10.5	106	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	82	-0.01
21	4-Bromophenyl-phenylether	0.261	0.256	1.9	101	-0.01
22	Hexachlorobenzene	0.300	0.329	-9.7	111	-0.01
23	Atrazine	0.166	0.147	11.4	96	-0.01
24	Pentachlorophenol	0.087	0.095	-9.2	127	-0.01
25	Phenanthrene	1.259	1.214	3.6	98	-0.01
26	Anthracene	1.116	1.020	8.6	95	-0.01
27 SURR	Fluoranthene-d10	1.004	0.954	5.0	101	-0.01
28	Fluoranthene	1.381	1.190	13.8	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.566	1.508	3.7	90	0.00
31 S	Terphenyl-d14	0.812	0.726	10.6	84	-0.01
32	Benzo(a)anthracene	1.395	1.291	7.5	89	0.00
33	Chrysene	1.496	1.457	2.6	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.424	-2.4	105	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	96	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.629	3.1	101	-0.02
37	Benzo(b)fluoranthene	1.575	1.551	1.5	96	-0.01
38	Benzo(k)fluoranthene	1.606	1.534	4.5	97	-0.01
39 C	Benzo(a)pyrene	1.261	1.231	2.4	98	-0.01
40	Dibenzo(a,h)anthracene	1.342	1.224	8.8	97	-0.03
41	Benzo(g,h,i)perylene	1.506	1.496	0.7	99	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037849.D
Acq On : 22 Sep 2025 10:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 11:54:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	120	0.00
2	1,4-Dioxane	0.400	0.403	-0.8	120	0.00
3	n-Nitrosodimethylamine	0.400	0.373	6.8	108	0.00
4 S	2-Fluorophenol	0.400	0.391	2.3	121	0.00
5 S	Phenol-d6	0.400	0.376	6.0	116	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	118	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	120	-0.01
8 S	Nitrobenzene-d5	0.400	0.403	-0.8	124	-0.01
9	Naphthalene	0.400	0.386	3.5	118	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	113	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.418	-4.5	134	-0.02
12	2-Methylnaphthalene	0.400	0.375	6.3	116	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	113	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.443	-10.7	130	-0.01
15 S	2-Fluorobiphenyl	0.400	0.400	0.0	115	-0.01
16	Acenaphthylene	0.400	0.366	8.5	107	-0.01
17	Acenaphthene	0.400	0.383	4.3	111	-0.01
18	Fluorene	0.400	0.358	10.5	106	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.295	26.3#	82	-0.01
21	4-Bromophenyl-phenylether	0.400	0.393	1.8	101	-0.01
22	Hexachlorobenzene	0.400	0.439	-9.7	111	-0.01
23	Atrazine	0.400	0.354	11.5	96	-0.01
24	Pentachlorophenol	0.400	0.437	-9.2	127	-0.01
25	Phenanthrene	0.400	0.386	3.5	98	-0.01
26	Anthracene	0.400	0.366	8.5	95	-0.01
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	101	-0.01
28	Fluoranthene	0.400	0.345	13.8	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.385	3.8	90	0.00
31 S	Terphenyl-d14	0.400	0.358	10.5	84	-0.01
32	Benzo(a)anthracene	0.400	0.370	7.5	89	0.00
33	Chrysene	0.400	0.389	2.8	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.410	-2.5	105	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	96	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.388	3.0	101	-0.02
37	Benzo(b)fluoranthene	0.400	0.394	1.5	96	-0.01
38	Benzo(k)fluoranthene	0.400	0.382	4.5	97	-0.01
39 C	Benzo(a)pyrene	0.400	0.391	2.3	98	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	97	-0.03
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	99	-0.03

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/22/2025 16:39
 Lab File ID: BN037859.D Init. Calib. Date(s): 09/11/2025 09/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:56 13:33
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.530	0.557		5.1	50.0
Fluoranthene-d10	1.004	0.898		-10.6	50.0
2-Fluorophenol	0.918	0.869		-5.3	50.0
Phenol-d6	1.191	1.146		-3.8	50.0
Nitrobenzene-d5	0.293	0.293		0.0	50.0
2-Fluorobiphenyl	1.673	1.607		-3.9	50.0
2,4,6-Tribromophenol	0.104	0.108		3.8	50.0
Terphenyl-d14	0.812	0.784		-3.4	50.0
1,4-Dioxane	0.417	0.395		-5.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
 Data File : BN037859.D
 Acq On : 22 Sep 2025 16:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 22 17:47:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

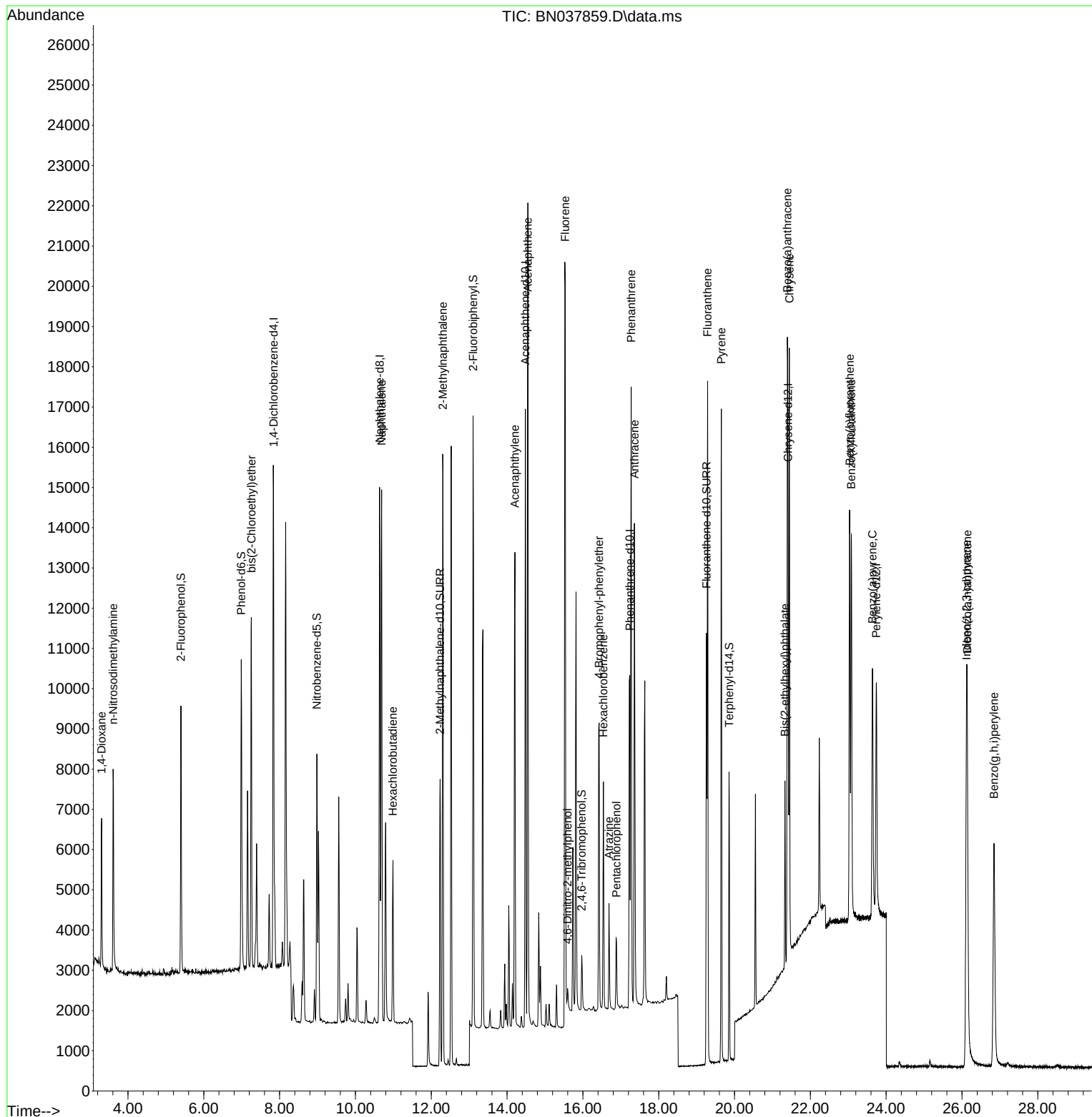
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6093	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17206	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8151	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	13180	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	8747	0.400	ng	# 0.00
35) Perylene-d12	23.741	264	8334	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5297	0.379	ng	0.00
5) Phenol-d6	6.988	99	6980	0.385	ng	0.00
8) Nitrobenzene-d5	8.982	82	5049	0.401	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	9581	0.420	ng	-0.01
14) 2,4,6-Tribromophenol	15.969	330	883	0.415	ng	-0.01
15) 2-Fluorobiphenyl	13.105	172	13098	0.384	ng	-0.01
27) Fluoranthene-d10	19.262	212	11839	0.358	ng	0.00
31) Terphenyl-d14	19.856	244	6860	0.386	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.304	88	2405	0.379	ng	98
3) n-Nitrosodimethylamine	3.608	42	3273	0.395	ng	# 99
6) bis(2-Chloroethyl)ether	7.255	93	6373	0.393	ng	99
9) Naphthalene	10.690	128	17964	0.382	ng	99
10) Hexachlorobutadiene	10.989	225	3100	0.364	ng	# 98
12) 2-Methylnaphthalene	12.303	142	10998	0.378	ng	99
16) Acenaphthylene	14.206	152	13513	0.362	ng	100
17) Acenaphthene	14.548	154	9564	0.378	ng	96
18) Fluorene	15.535	166	11044	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	351	0.288	ng	# 61
21) 4-Bromophenyl-phenylether	16.428	248	3270	0.380	ng	# 96
22) Hexachlorobenzene	16.540	284	4334	0.438	ng	97
23) Atrazine	16.689	200	2035	0.372	ng	94
24) Pentachlorophenol	16.888	266	1020	0.355	ng	99
25) Phenanthrene	17.272	178	15736	0.379	ng	99
26) Anthracene	17.359	178	13062	0.355	ng	99
28) Fluoranthene	19.290	202	14576	0.320	ng	99
30) Pyrene	19.652	202	14184	0.414	ng	100
32) Benzo(a)anthracene	21.393	228	11168	0.366	ng	100
33) Chrysene	21.447	228	12595	0.385	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	4030	0.446	ng	99
36) Indeno(1,2,3-cd)pyrene	26.118	276	13892	0.397	ng	99
37) Benzo(b)fluoranthene	23.037	252	13229	0.403	ng	# 94
38) Benzo(k)fluoranthene	23.081	252	13409	0.401	ng	# 94
39) Benzo(a)pyrene	23.639	252	10067	0.383	ng	# 89
40) Dibenzo(a,h)anthracene	26.139	278	10511	0.376	ng	99
41) Benzo(g,h,i)perylene	26.846	276	12358	0.394	ng	99

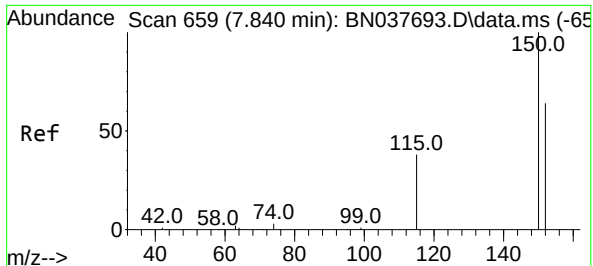
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Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

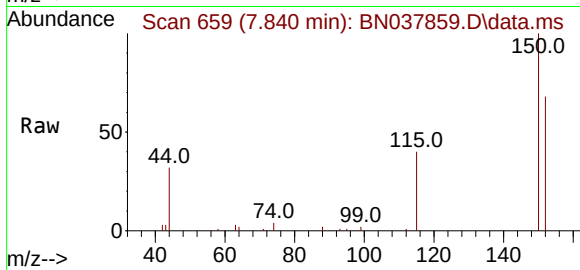
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



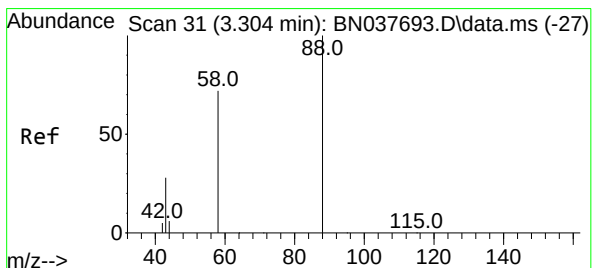
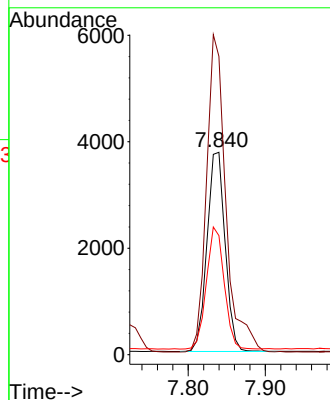
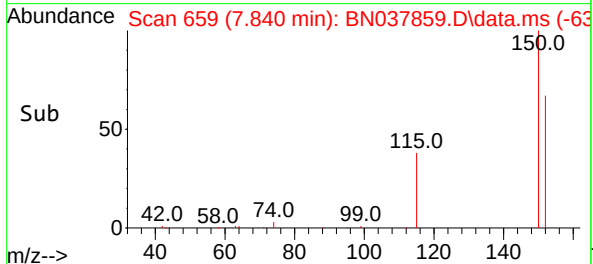


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

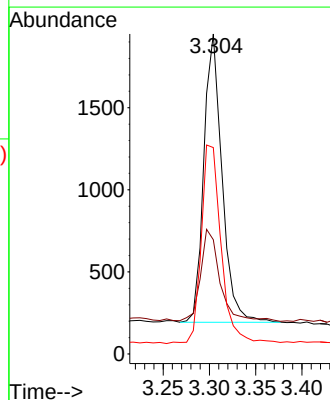
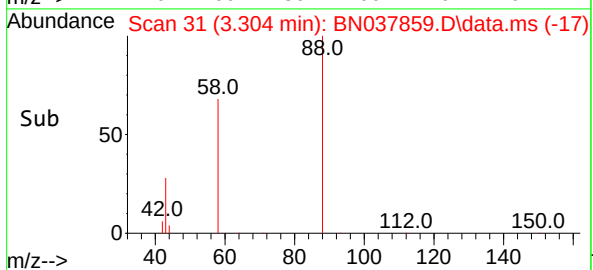
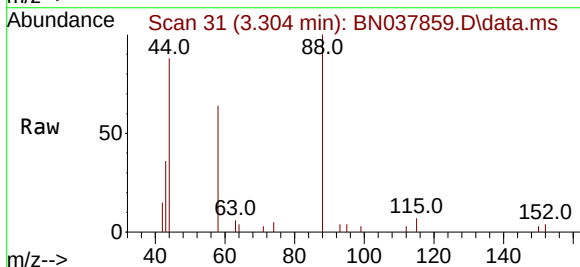


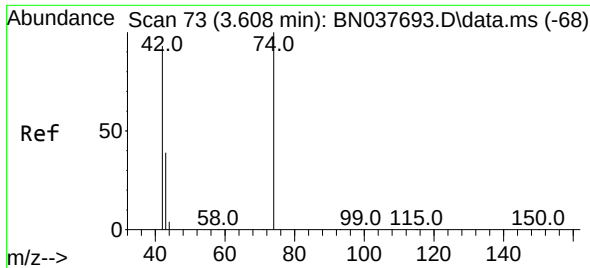
Tgt Ion:152 Resp: 6093
Ion Ratio Lower Upper
152 100
150 147.4 124.5 186.7
115 58.8 49.2 73.8



#2
1,4-Dioxane
Concen: 0.379 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 88 Resp: 2405
Ion Ratio Lower Upper
88 100
43 33.8 26.8 40.2
58 75.4 61.9 92.9

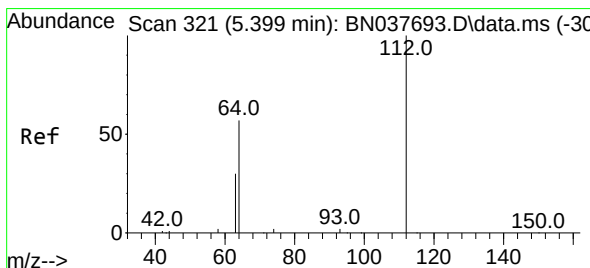
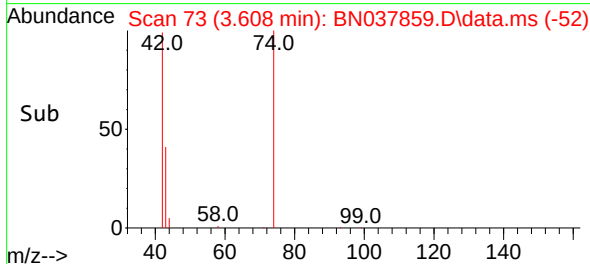
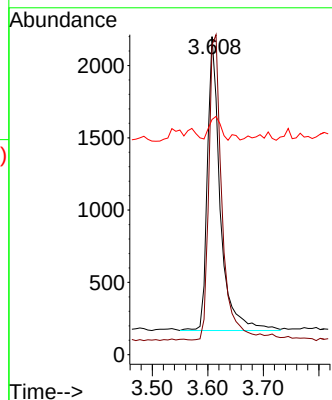
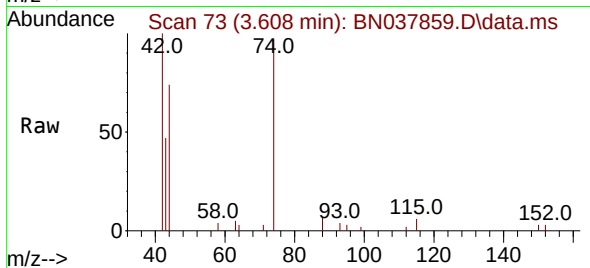




#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.608 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

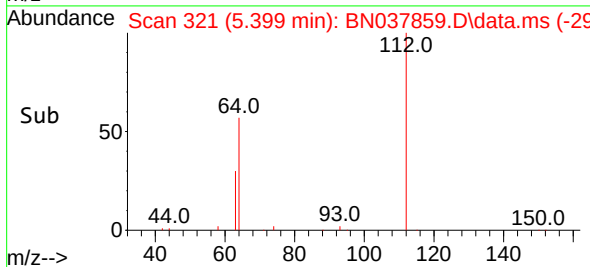
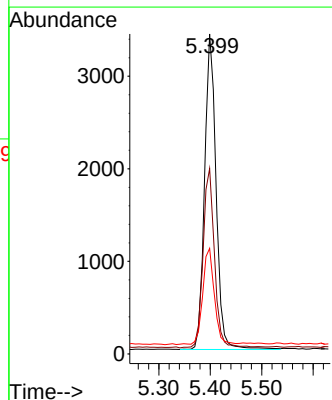
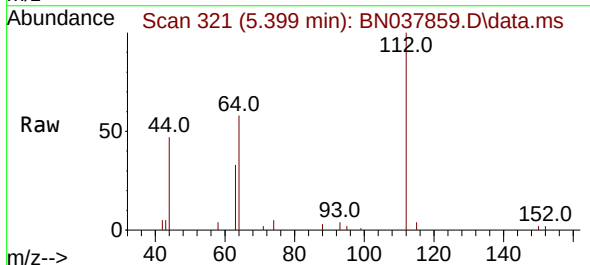
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

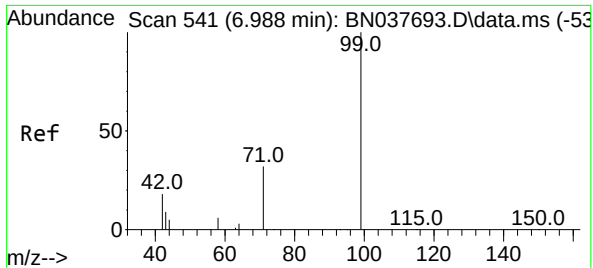
Tgt Ion: 42 Resp: 3273
Ion Ratio Lower Upper
42 100
74 107.8 86.0 129.0
44 7.1 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 112 Resp: 5297
Ion Ratio Lower Upper
112 100
64 56.9 44.9 67.3
63 30.7 24.7 37.1

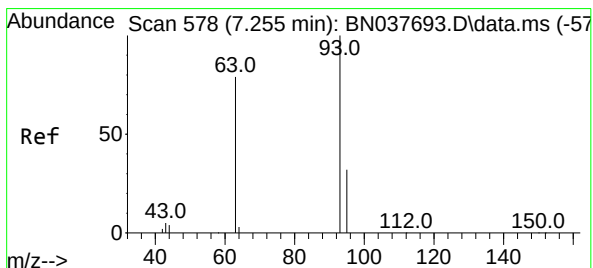
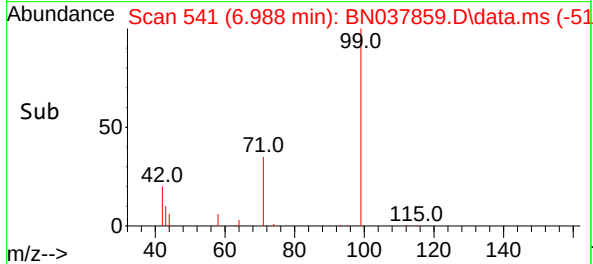
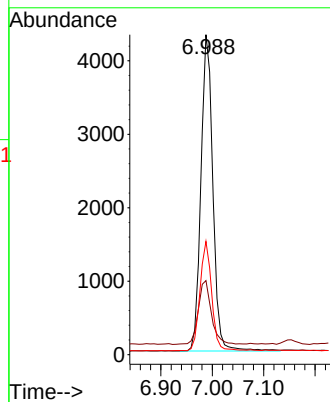
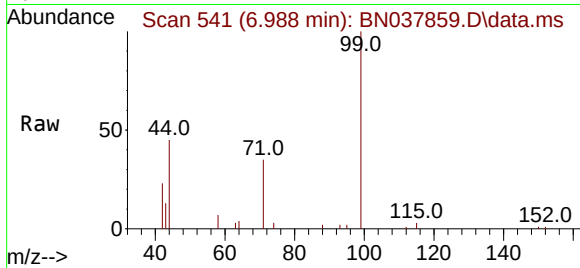




#5
Phenol-d6
Concen: 0.385 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

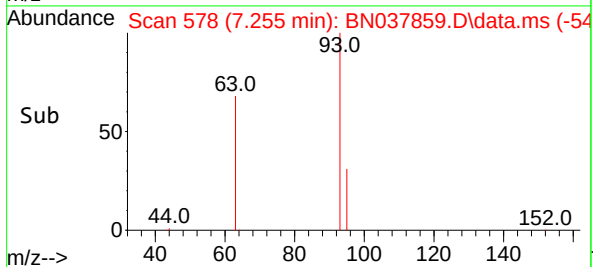
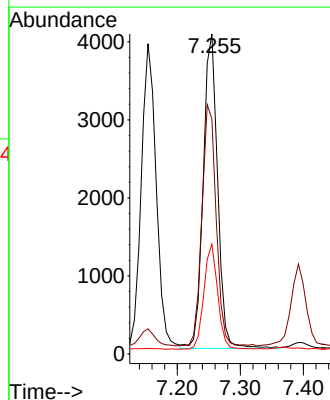
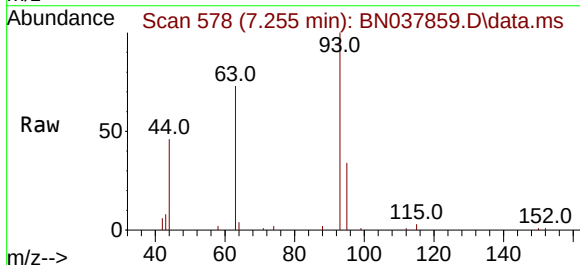
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

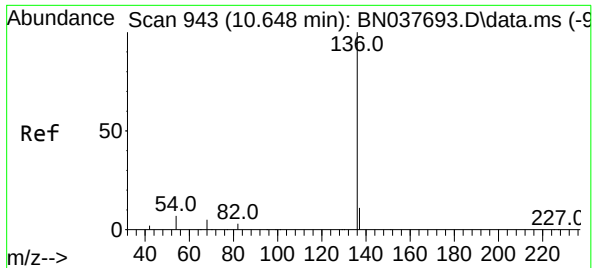
Tgt Ion: 99 Resp: 6980
Ion Ratio Lower Upper
99 100
42 22.1 16.6 24.8
71 33.7 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion: 93 Resp: 6373
Ion Ratio Lower Upper
93 100
63 76.0 60.6 90.8
95 31.8 26.0 39.0

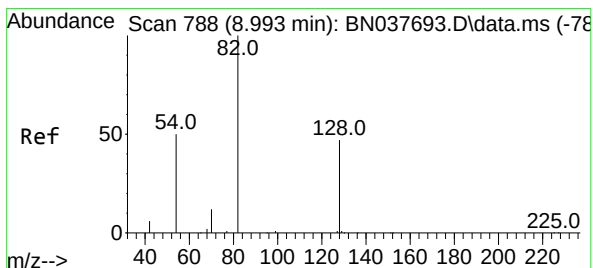
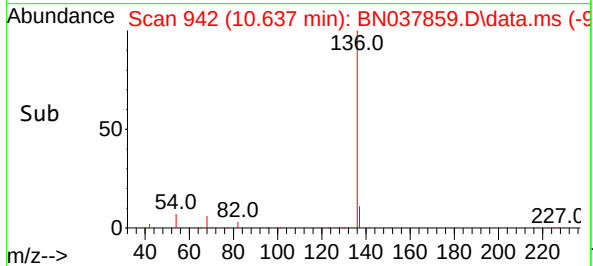
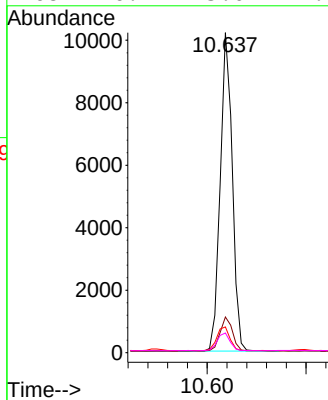
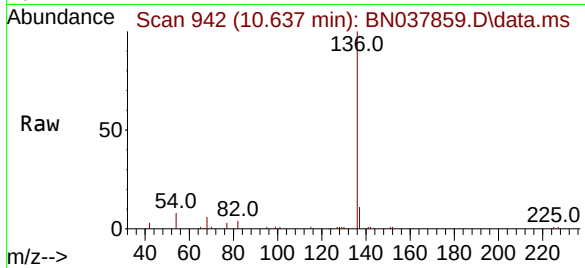




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

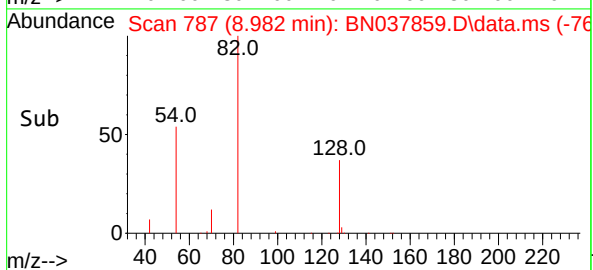
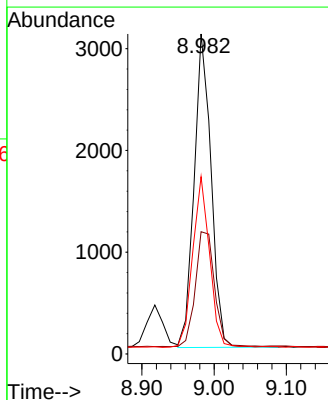
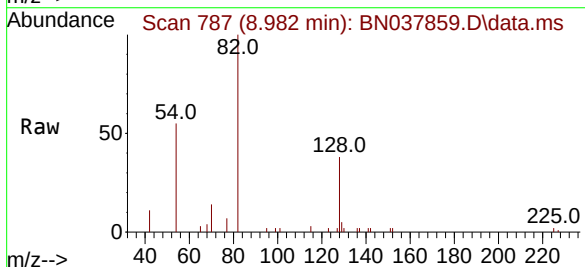
Instrument :
BNA_N
ClientSampleId :
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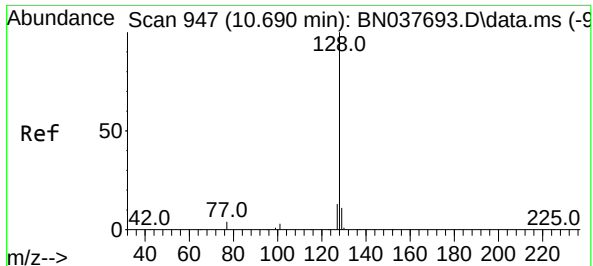
Tgt Ion:	136	Resp:	17206
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	8.1	6.3	9.5
68	6.1	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	82	Resp:	5049
Ion	Ratio	Lower	Upper
82	100		
128	38.2	38.3	57.5#
54	55.4	41.4	62.2

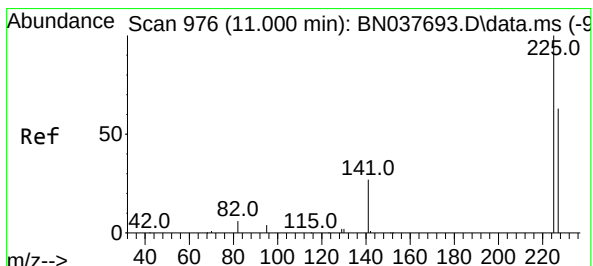
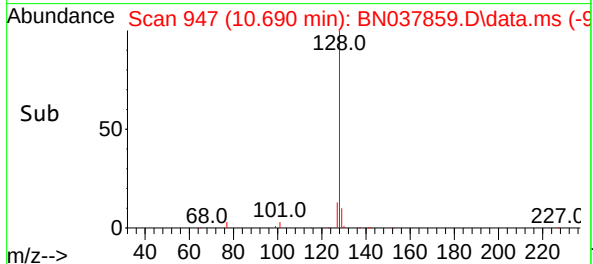
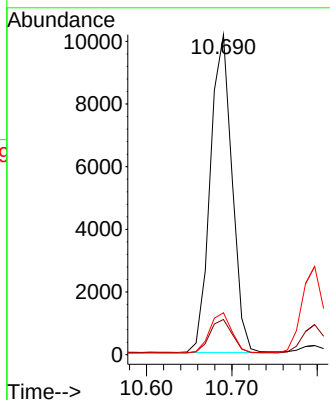
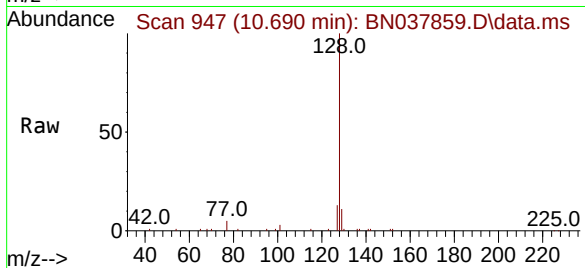




#9
Naphthalene
Concen: 0.382 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

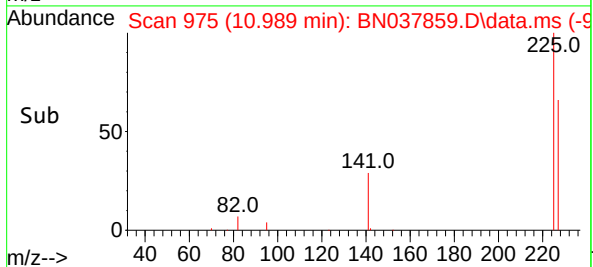
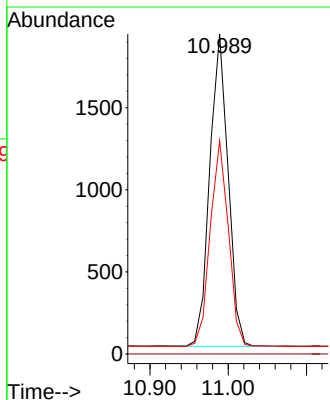
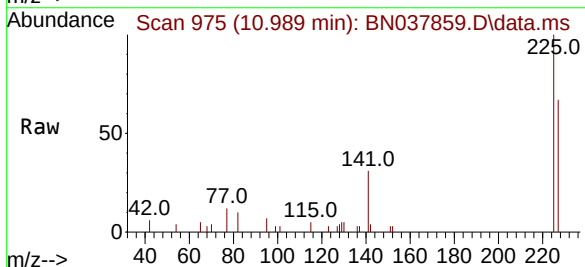
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

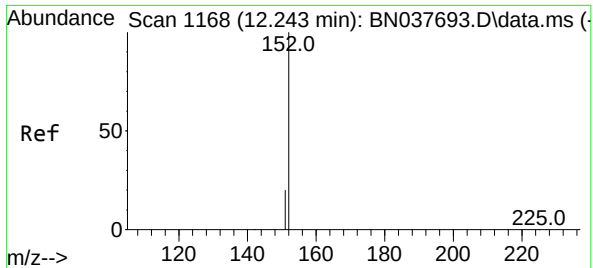
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.1	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.364 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	50.9	76.3

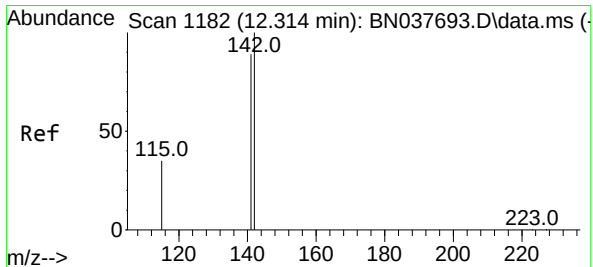
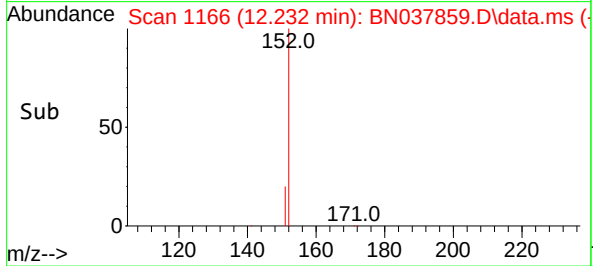
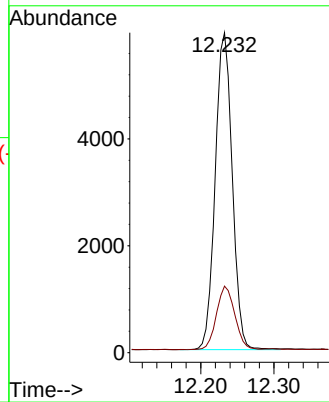
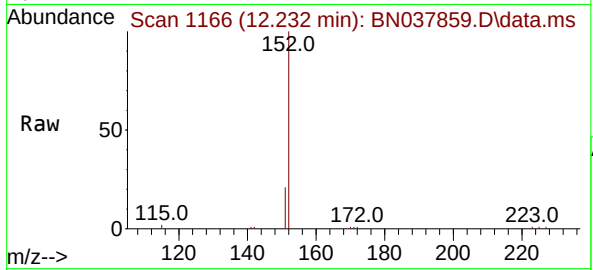




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

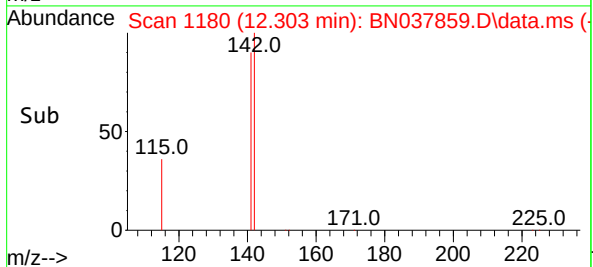
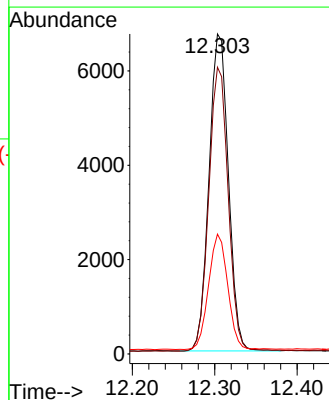
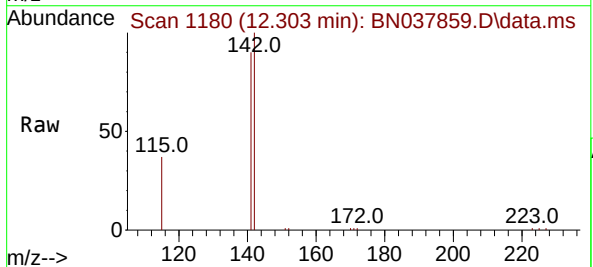
Instrument :
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ClientSampleId :
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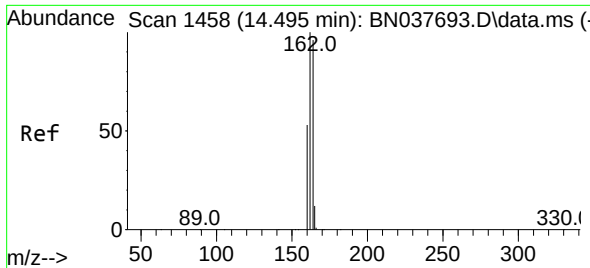
Tgt Ion:152 Resp: 9581
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:142 Resp: 10998
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 37.4 28.6 43.0

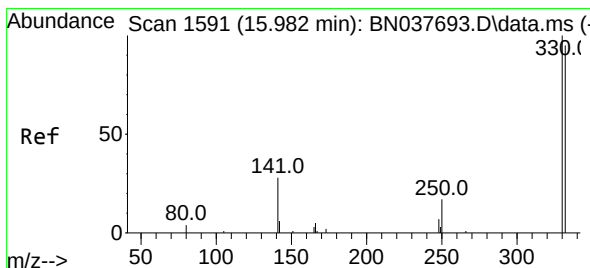
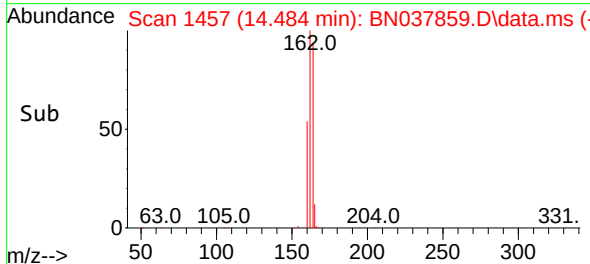
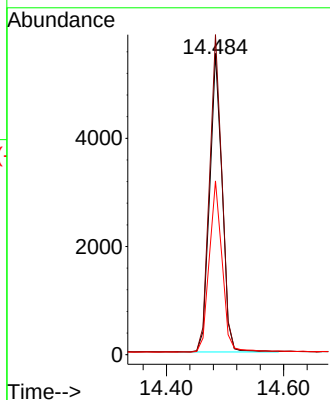
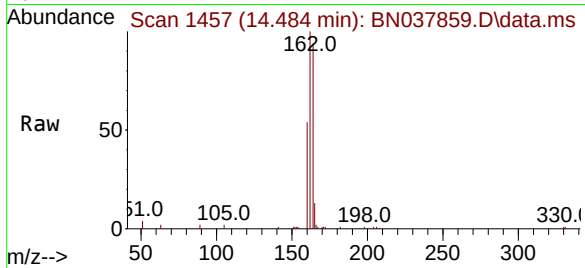




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

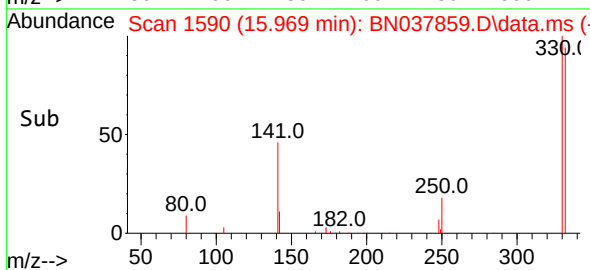
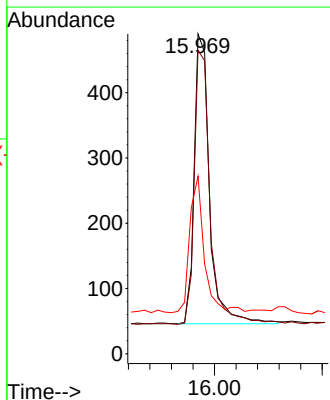
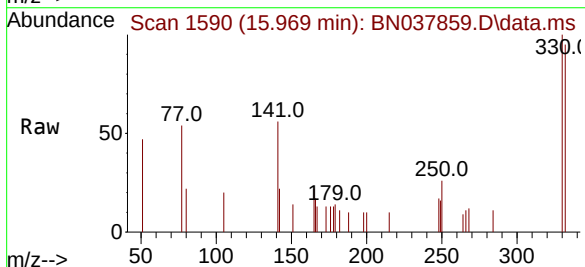
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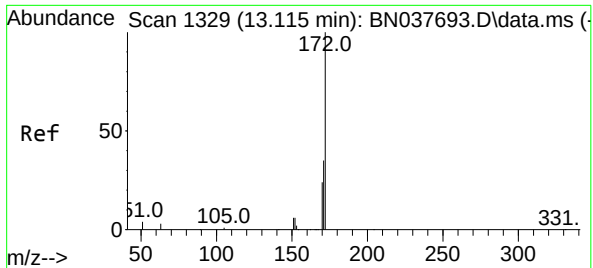
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.1	124.7
160	57.7	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.415 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	75.3	112.9
141	44.7	35.0	52.4

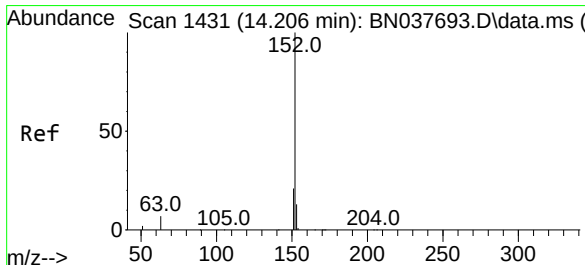
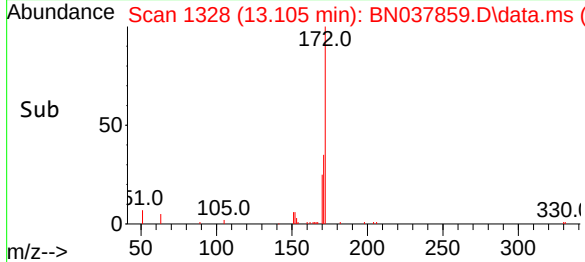
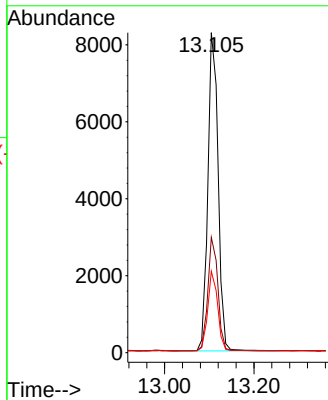
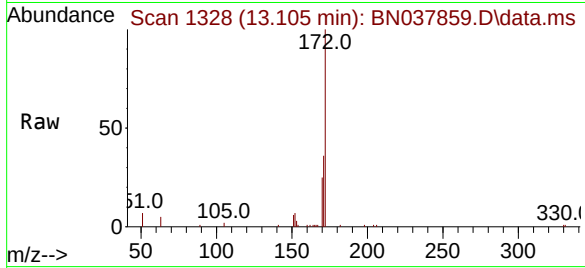




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

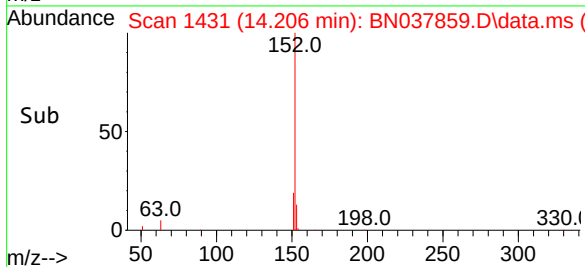
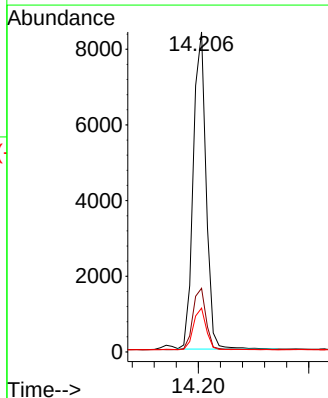
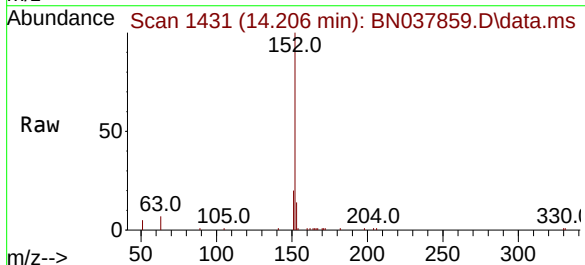
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

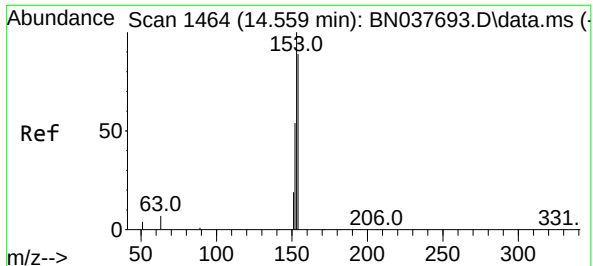
Tgt Ion:	172	Resp:	13098
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.5	19.8	29.8



#16
Acenaphthylene
Concen: 0.362 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:	152	Resp:	13513
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6

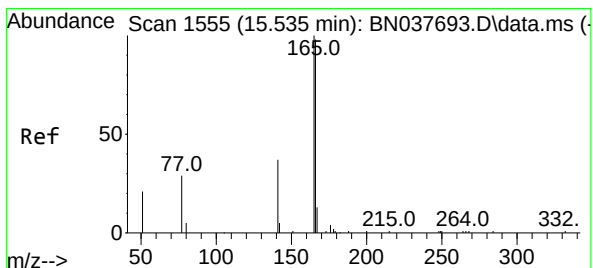
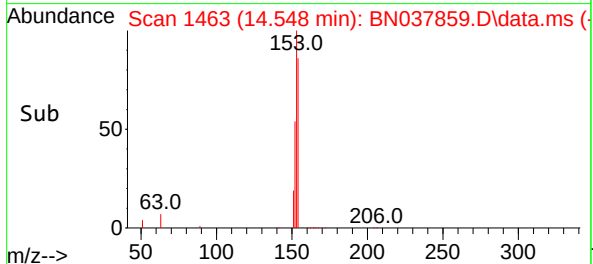
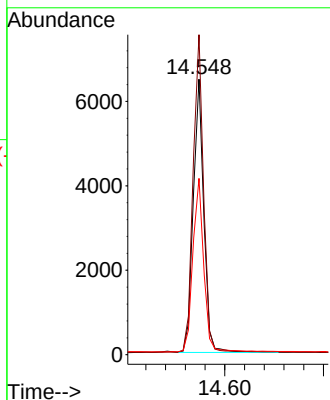
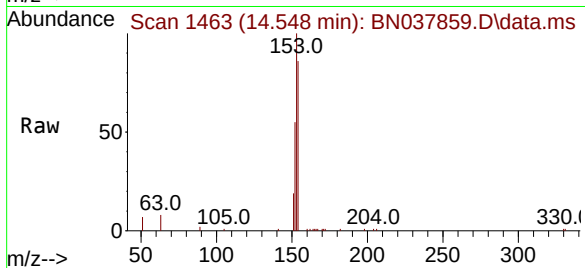




#17
Acenaphthene
Concen: 0.378 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

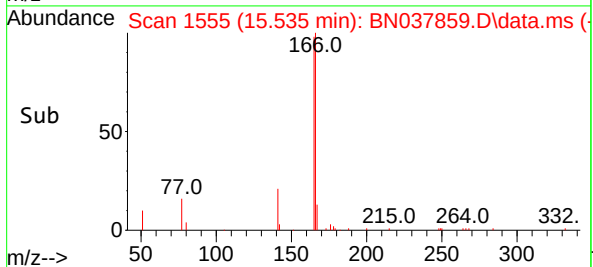
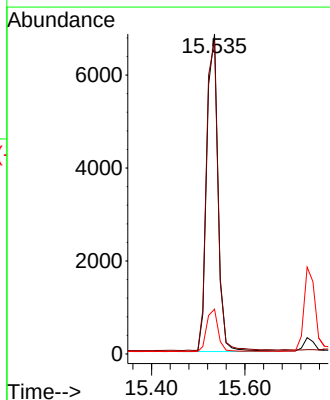
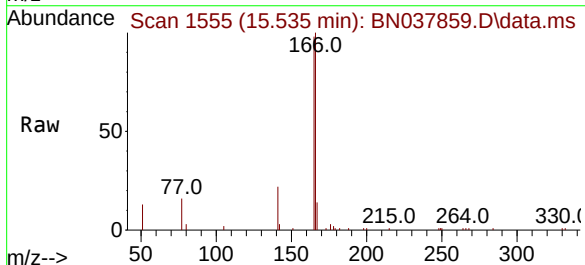
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

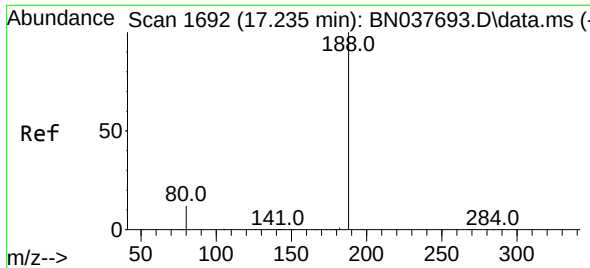
Tgt Ion:154 Resp: 9564
Ion Ratio Lower Upper
154 100
153 115.6 89.8 134.8
152 66.0 50.2 75.2



#18
Fluorene
Concen: 0.361 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:166 Resp: 11044
Ion Ratio Lower Upper
166 100
165 100.6 79.6 119.4
167 13.9 10.6 16.0

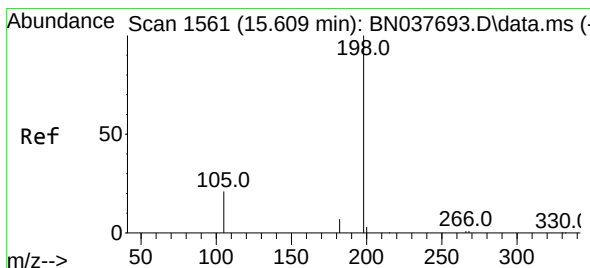
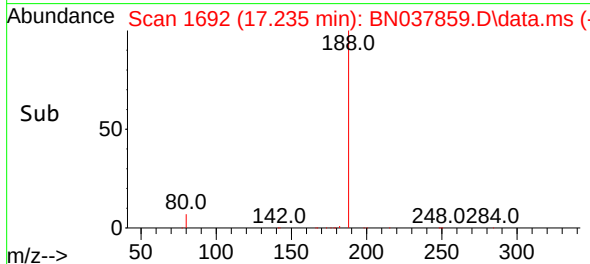
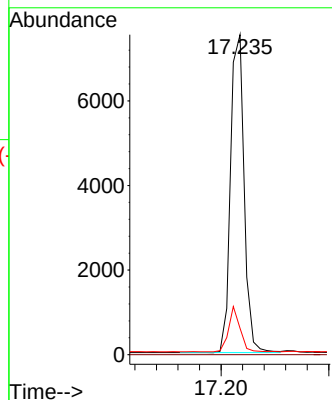
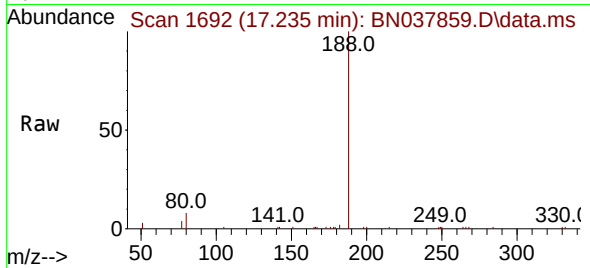




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

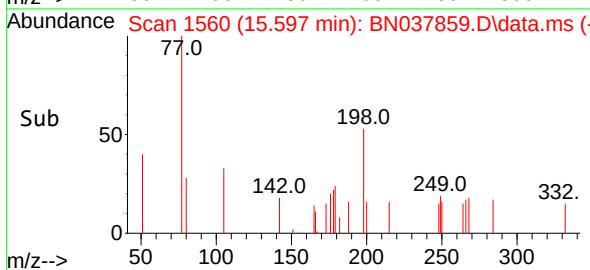
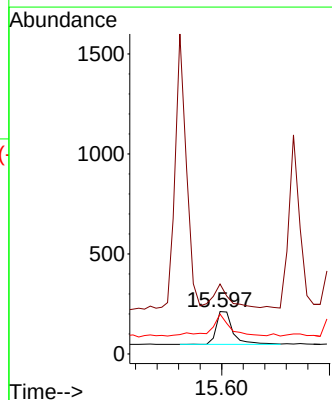
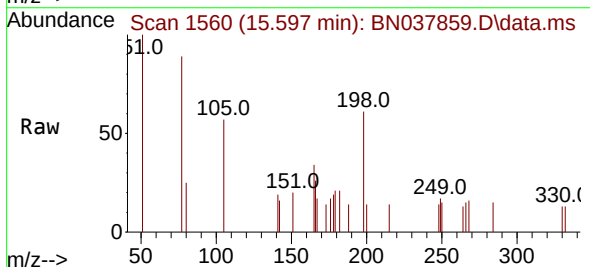
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

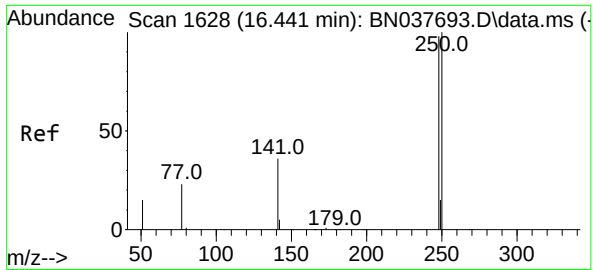
Tgt Ion:188	Resp:	13180
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.2	15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.288 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:198	Resp:	351
Ion Ratio	Lower	Upper
198	100	
51	165.1	95.1
105	93.9	80.6#

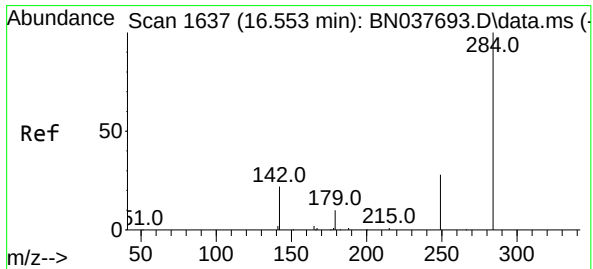
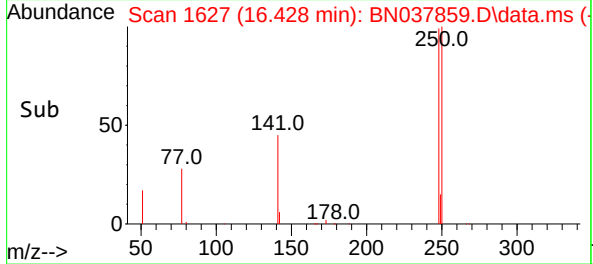
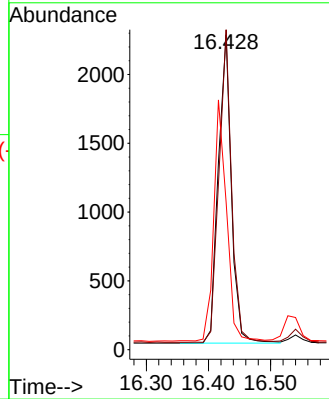
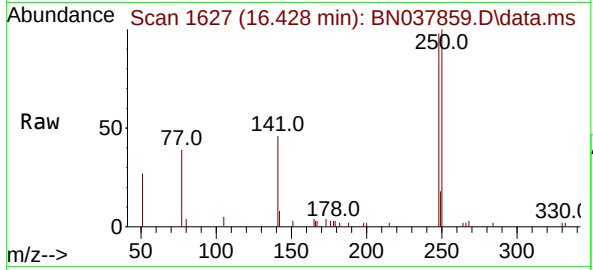




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

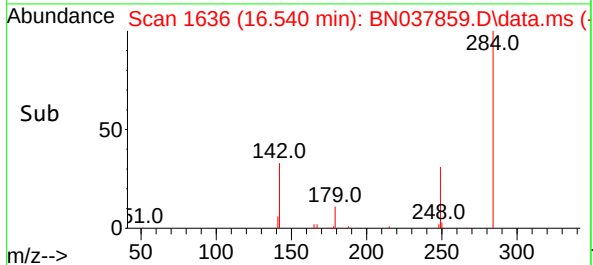
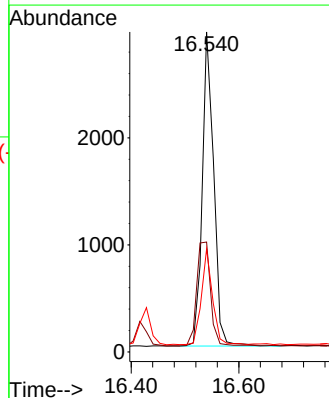
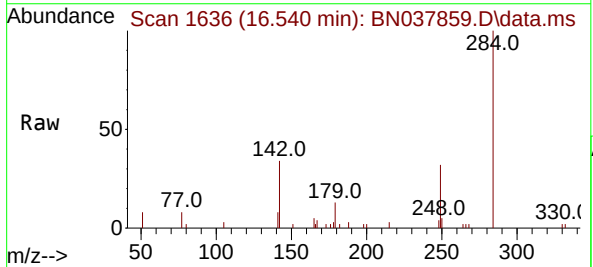
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

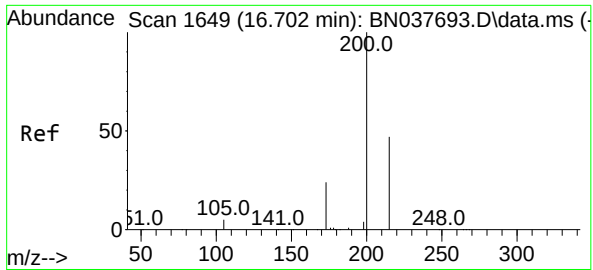
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	81.5	122.3
141	46.9	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.438 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.2	30.9	46.3
249	29.6	24.8	37.2

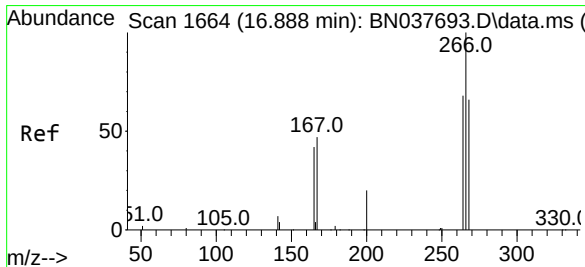
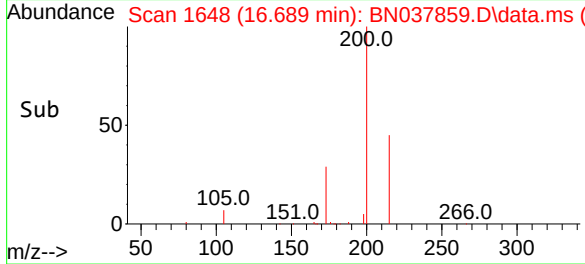
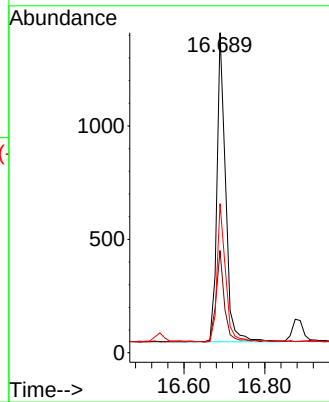
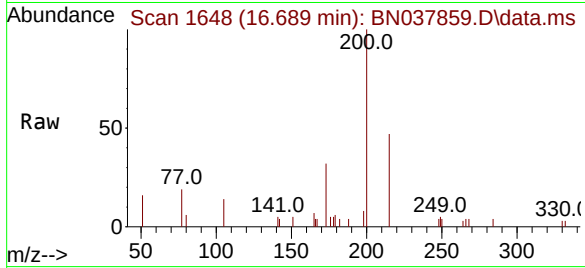




#23
Atrazine
Concen: 0.372 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

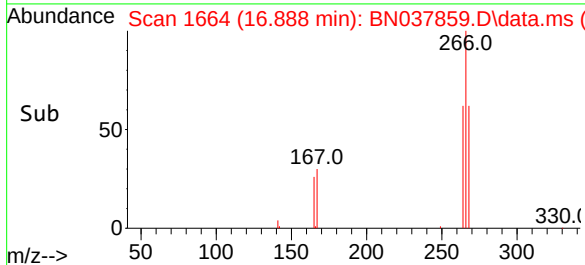
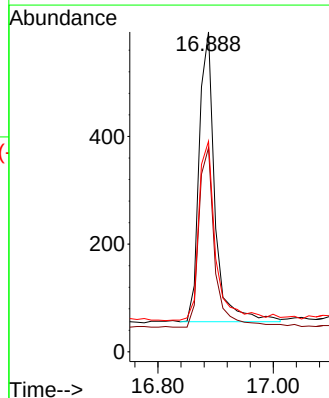
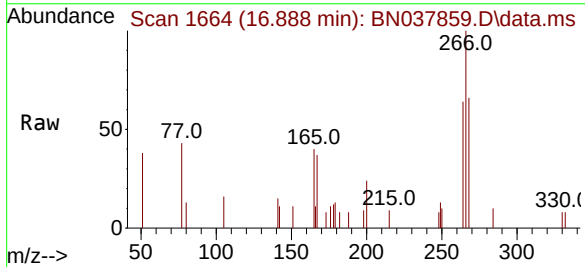
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

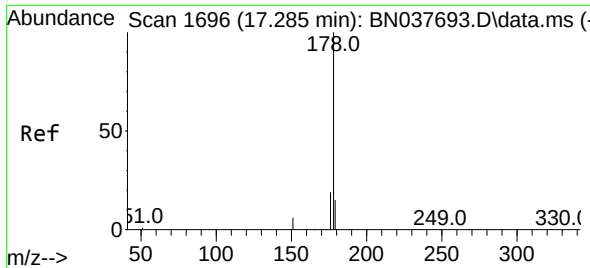
Tgt Ion:200 Resp: 2035
Ion Ratio Lower Upper
200 100
173 32.0 21.4 32.2
215 46.6 39.2 58.8



#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:266 Resp: 1020
Ion Ratio Lower Upper
266 100
264 63.3 51.6 77.4
268 66.8 53.2 79.8

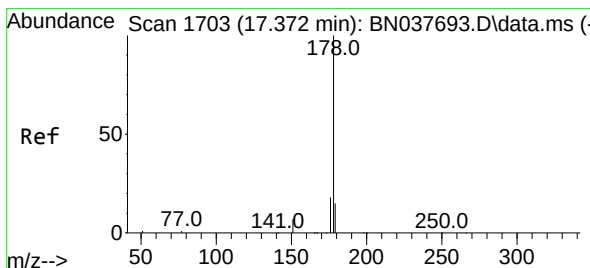
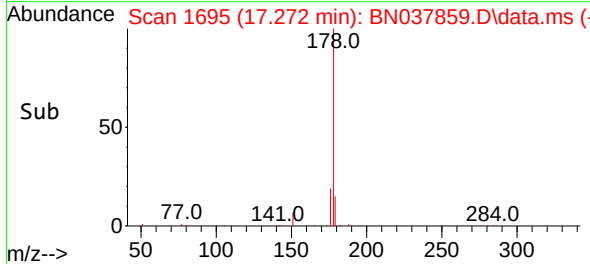
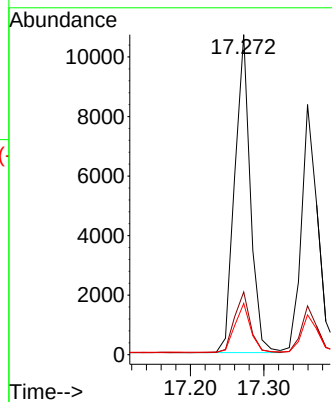
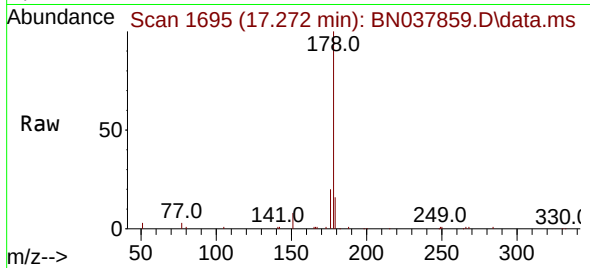




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.272 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

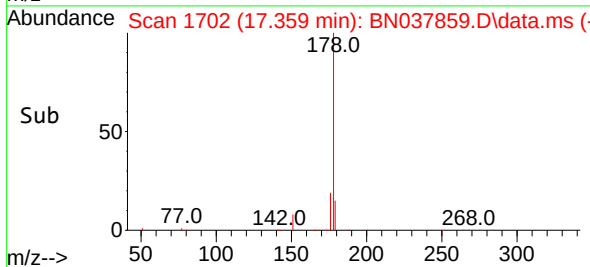
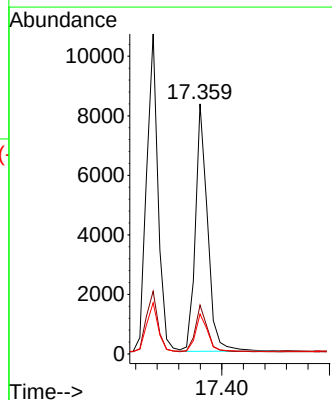
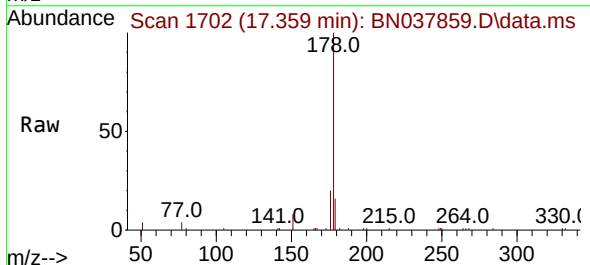
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

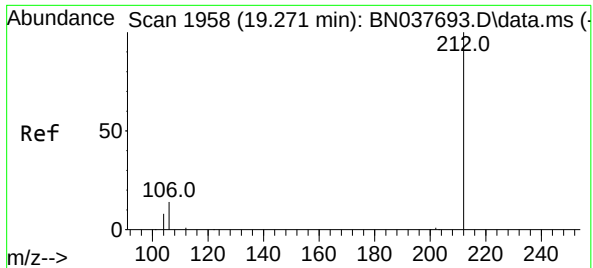
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.5	12.2	18.2



#26
Anthracene
Concen: 0.355 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	22.0
179	15.2	12.2	18.4

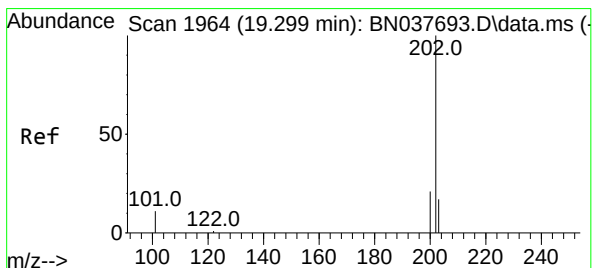
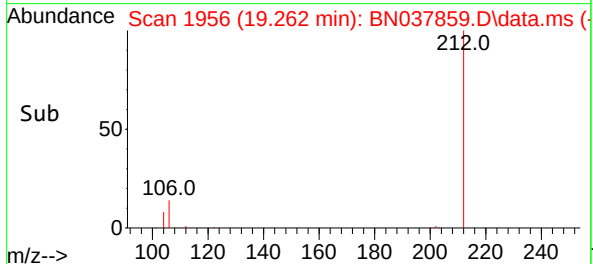
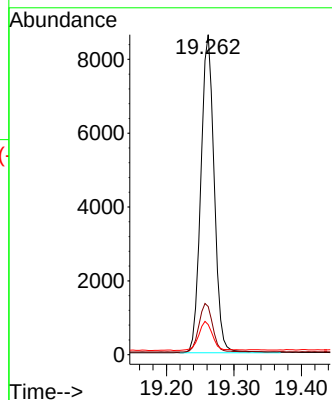
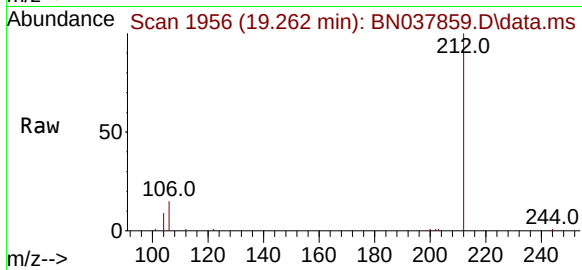




#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.262 min Scan# 1958
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

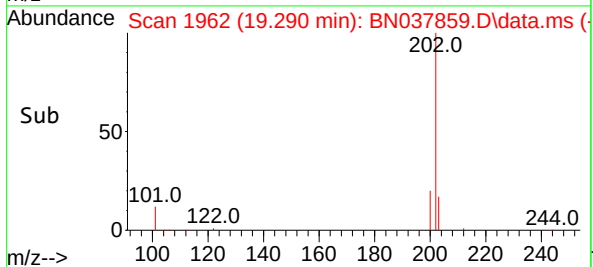
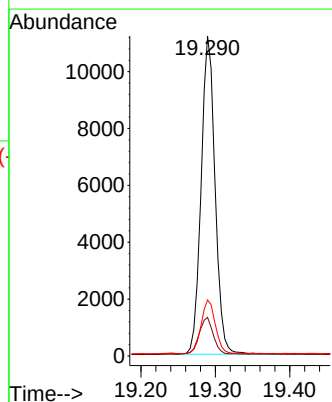
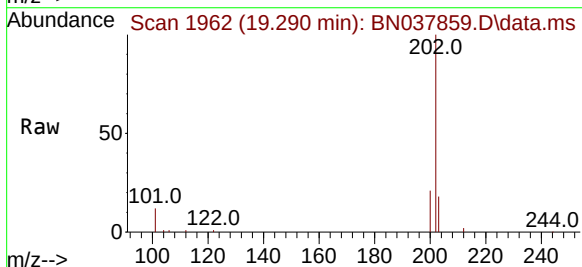
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

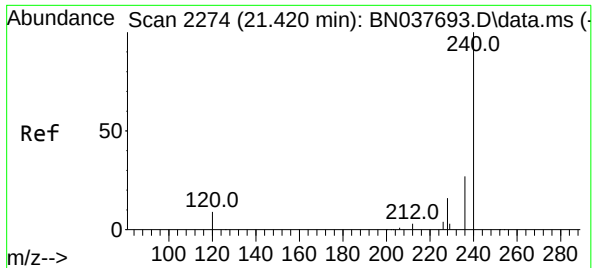
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	12.2	18.2
104	9.4	6.9	10.3



#28
Fluoranthene
Concen: 0.320 ng
RT: 19.290 min Scan# 1962
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.3	13.9
203	17.1	13.7	20.5

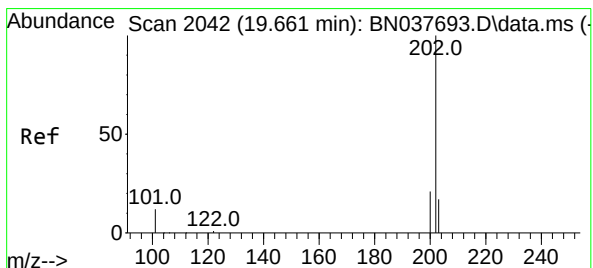
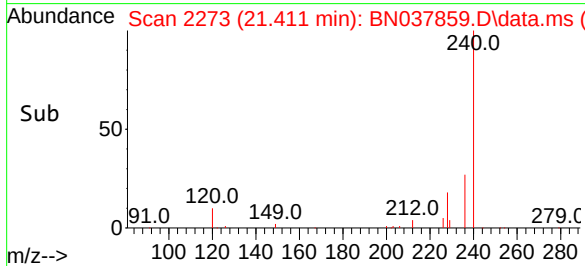
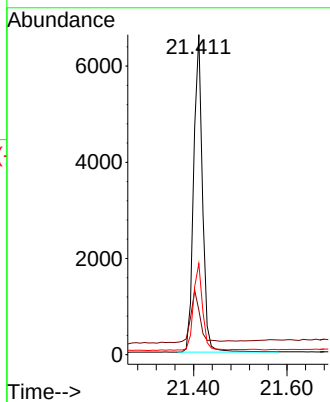
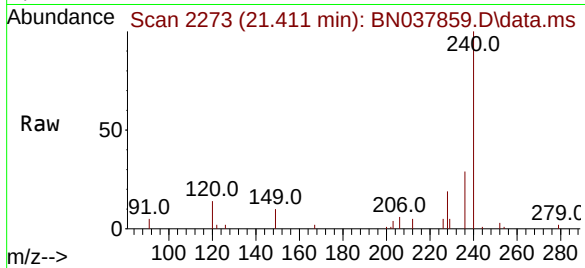




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

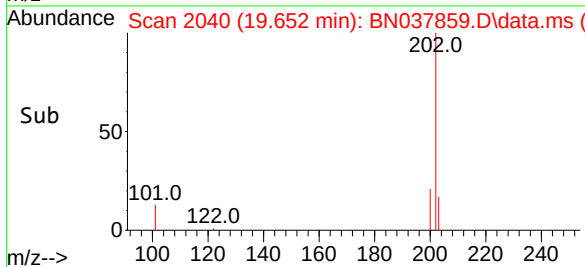
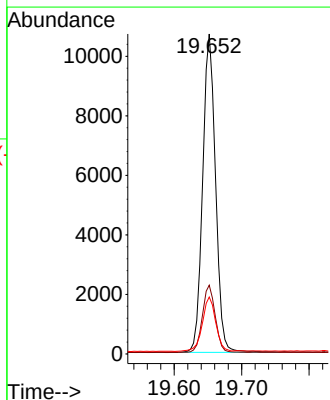
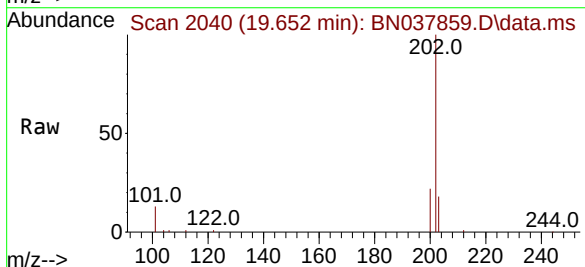
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

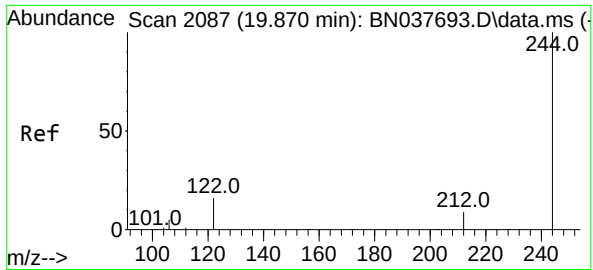
Tgt Ion:240 Resp: 8747
Ion Ratio Lower Upper
240 100
120 13.9 9.2 13.8#
236 28.5 22.6 33.8



#30
Pyrene
Concen: 0.414 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.010 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:202 Resp: 14184
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.3 21.5

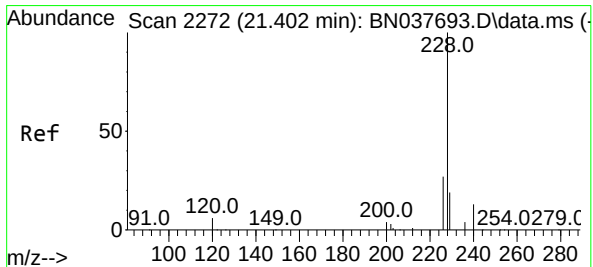
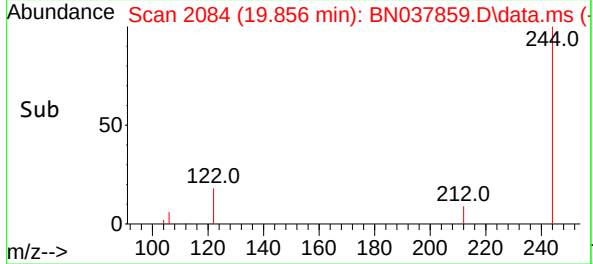
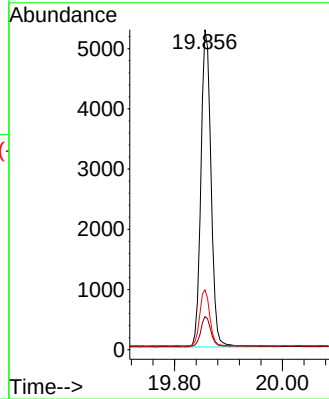
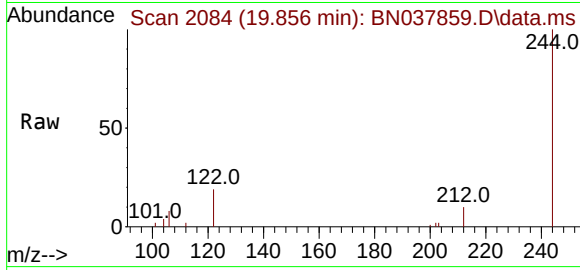




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.856 min Scan# 2084
Delta R.T. -0.014 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

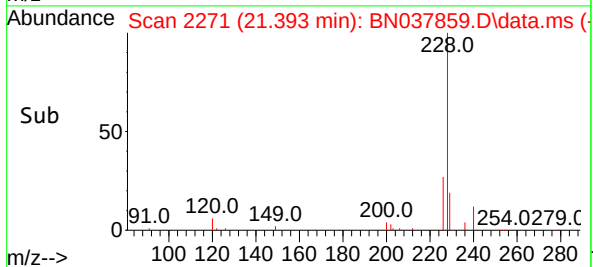
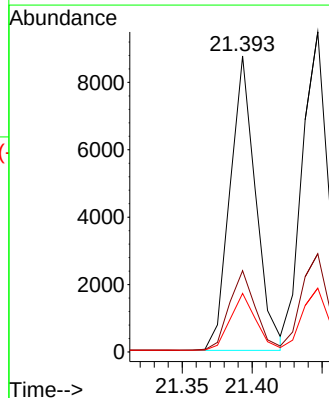
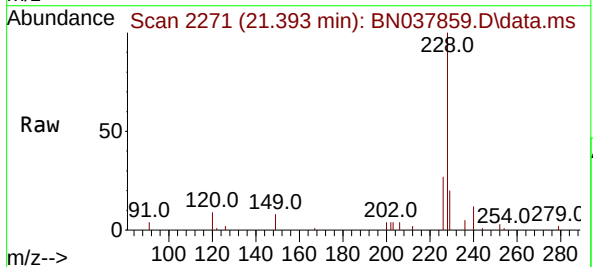
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

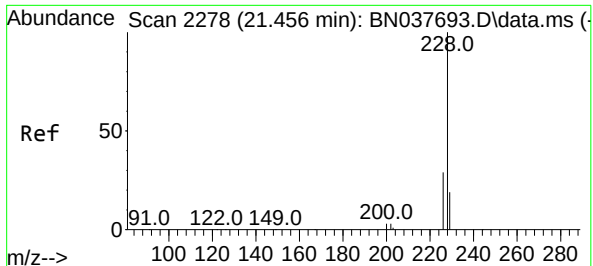
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	18.7	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.8	15.8	23.6

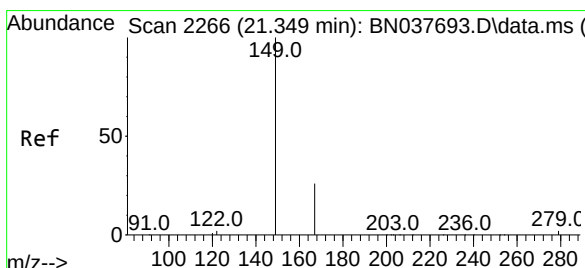
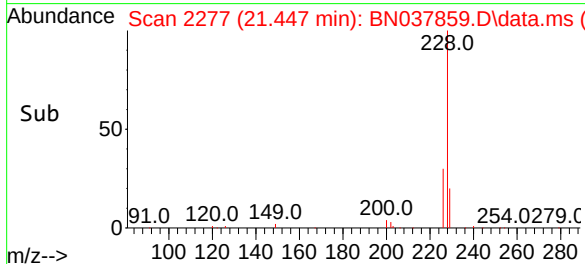
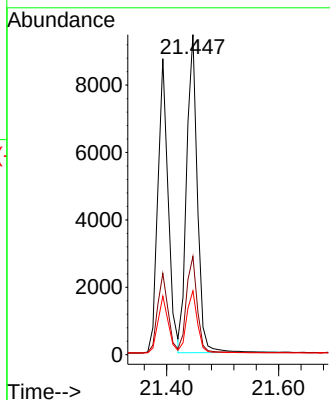
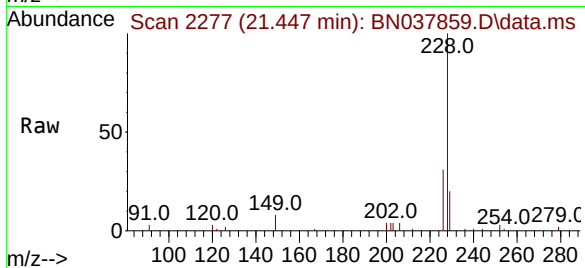




#33
Chrysene
Concen: 0.385 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

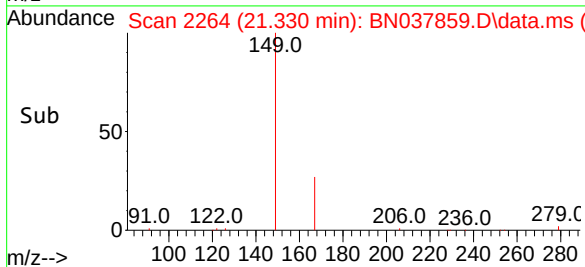
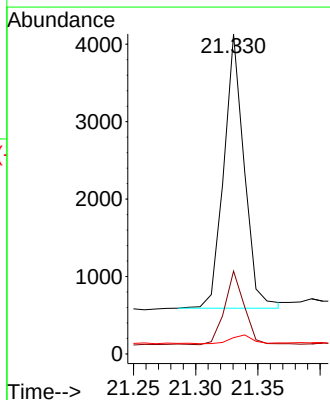
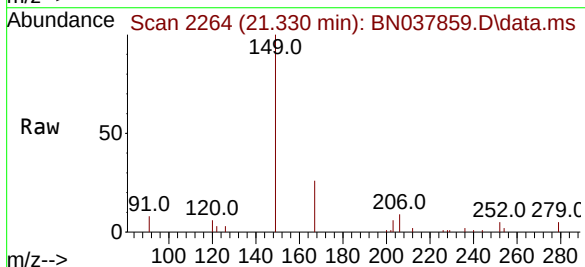
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

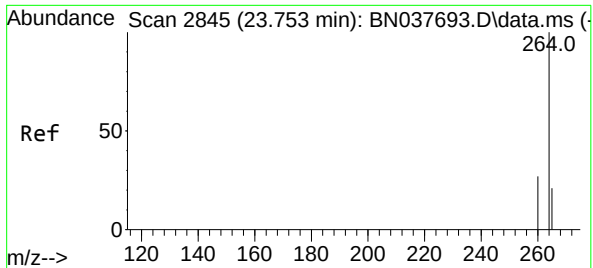
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.5	35.3
229	20.0	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.446 ng
RT: 21.330 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

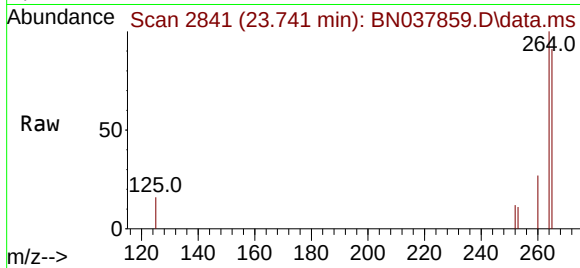
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.8	31.2
279	3.6	3.3	4.9



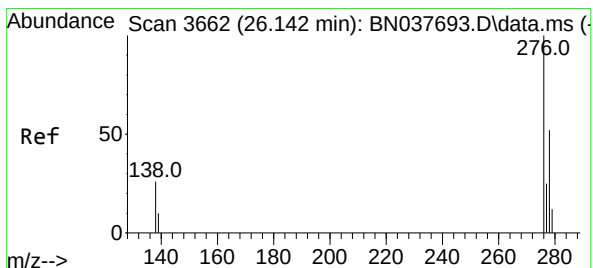
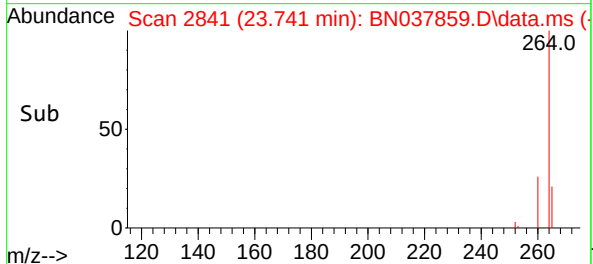
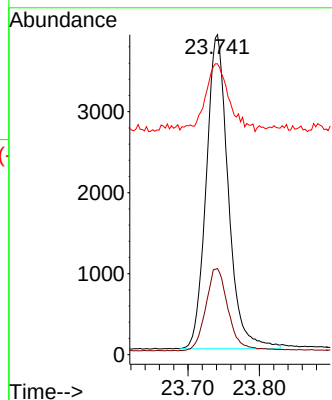


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.741 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

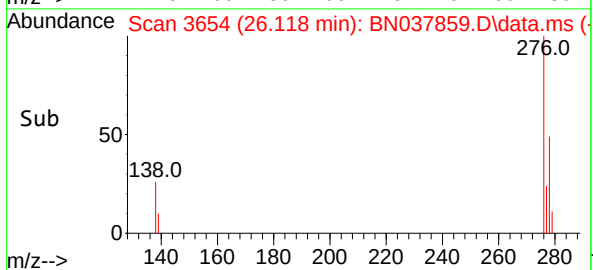
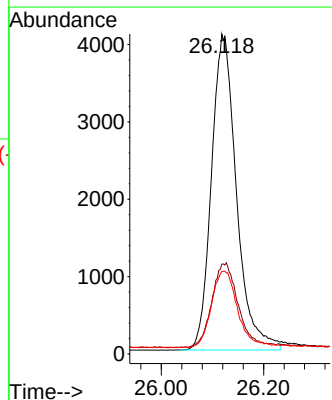
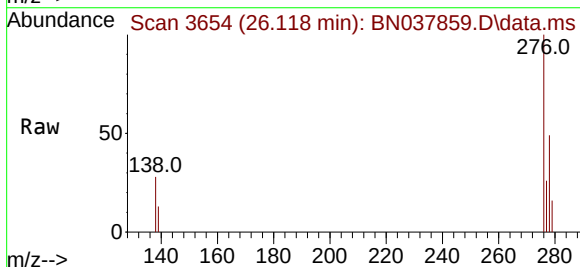


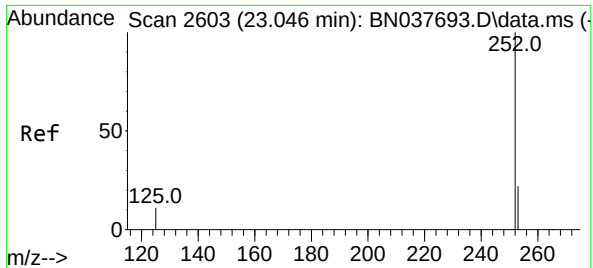
Tgt Ion:264 Resp: 8334
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 90.9 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 26.118 min Scan# 3654
Delta R.T. -0.024 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:276 Resp: 13892
Ion Ratio Lower Upper
276 100
138 27.9 21.9 32.9
277 25.2 20.1 30.1

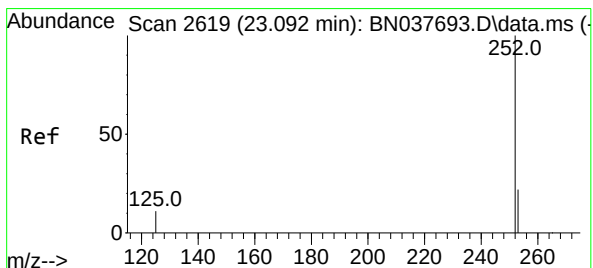
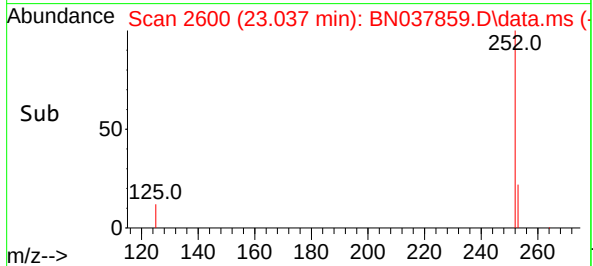
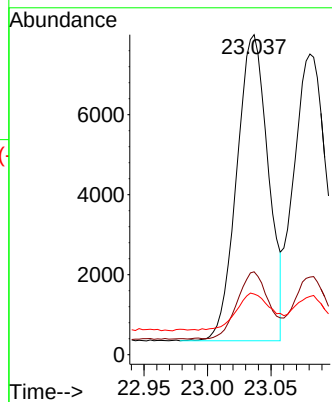
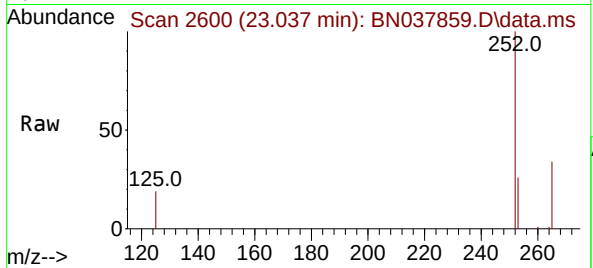




#37
Benzo(b)fluoranthene
Concen: 0.403 ng
RT: 23.037 min Scan# 2600
Delta R.T. -0.009 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

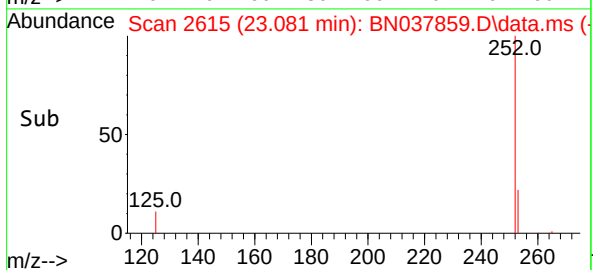
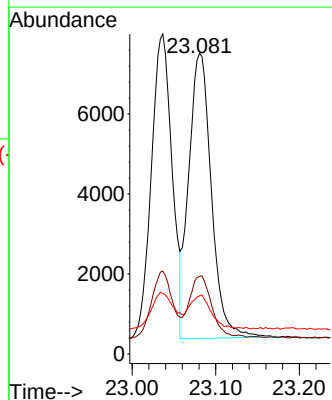
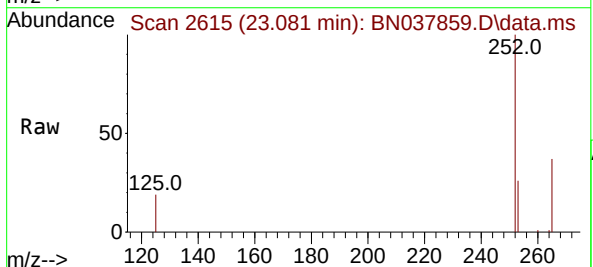
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

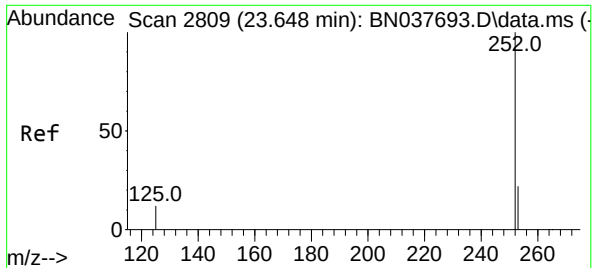
Tgt Ion:252 Resp: 13229
Ion Ratio Lower Upper
252 100
253 25.9 19.4 29.2
125 18.9 11.2 16.8#



#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 23.081 min Scan# 2615
Delta R.T. -0.012 min
Lab File: BN037859.D
Acq: 22 Sep 2025 16:39

Tgt Ion:252 Resp: 13409
Ion Ratio Lower Upper
252 100
253 25.8 19.4 29.0
125 19.3 11.6 17.4#





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.639 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

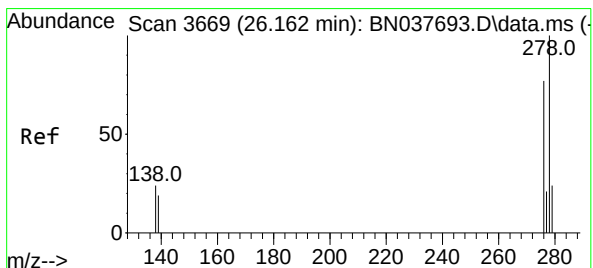
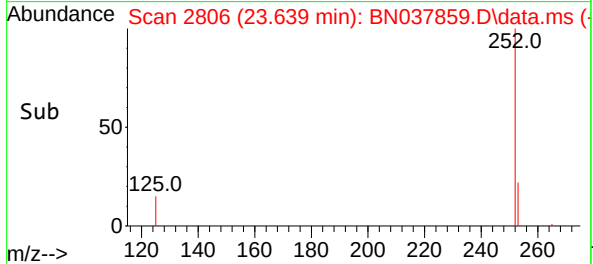
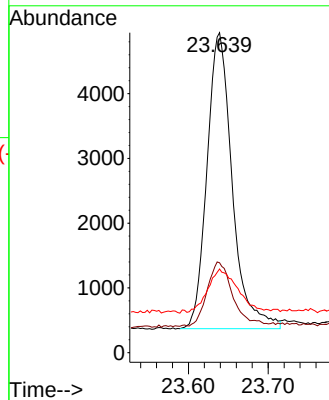
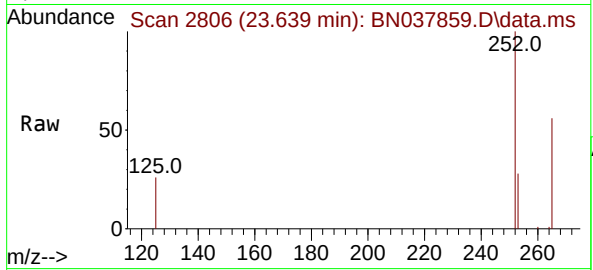
Tgt Ion:252 Resp: 10067

Ion Ratio Lower Upper

252 100

253 28.1 20.8 31.2

125 26.1 13.9 20.9#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 26.139 min Scan# 3661

Delta R.T. -0.024 min

Lab File: BN037859.D

Acq: 22 Sep 2025 16:39

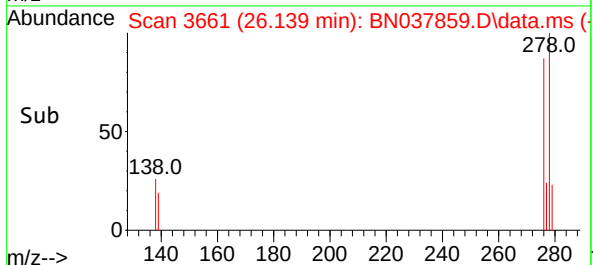
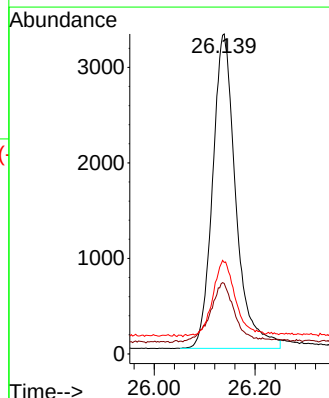
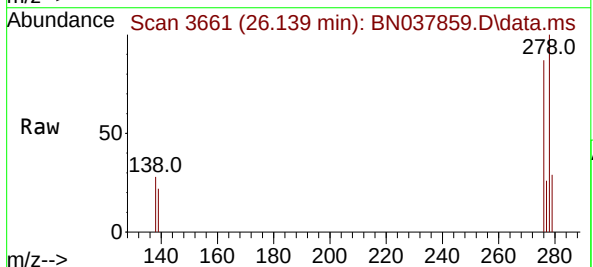
Tgt Ion:278 Resp: 10511

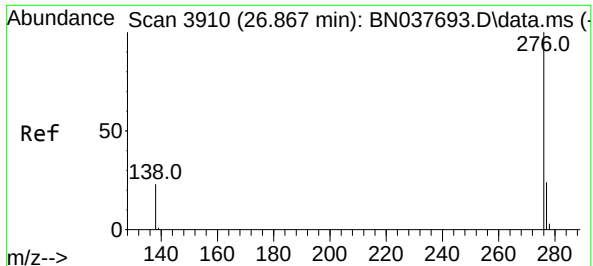
Ion Ratio Lower Upper

278 100

139 22.1 17.8 26.6

279 28.6 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.846 min Scan# 3910

Delta R.T. -0.021 min

Lab File: BN037859.D

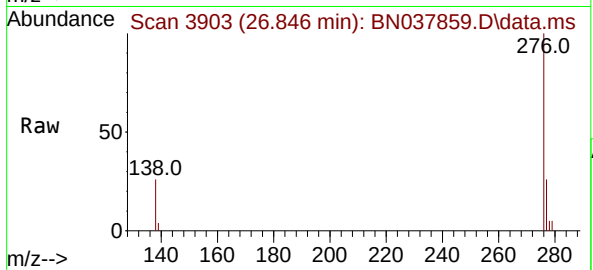
Acq: 22 Sep 2025 16:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



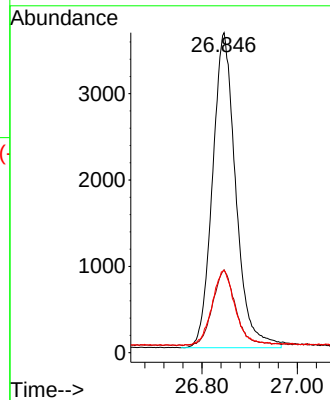
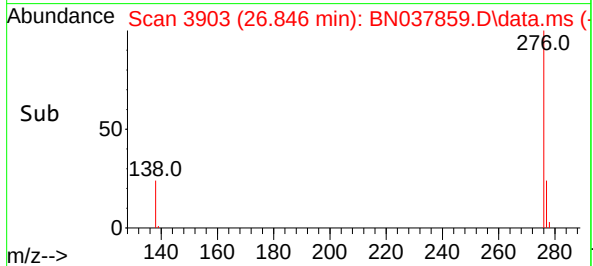
Tgt Ion:276 Resp: 12358

Ion Ratio Lower Upper

276 100

277 25.9 20.6 31.0

138 25.8 20.2 30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	122	0.00
2	1,4-Dioxane	0.417	0.395	5.3	114	0.00
3	n-Nitrosodimethylamine	0.544	0.537	1.3	116	0.00
4 S	2-Fluorophenol	0.918	0.869	5.3	119	0.00
5 S	Phenol-d6	1.191	1.146	3.8	121	0.00
6	bis(2-Chloroethyl)ether	1.064	1.046	1.7	119	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	130	-0.01
8 S	Nitrobenzene-d5	0.293	0.293	0.0	134	-0.01
9	Naphthalene	1.093	1.044	4.5	126	0.00
10	Hexachlorobutadiene	0.198	0.180	9.1	119	-0.01
11 SURR	2-Methylnaphthalene-d10	0.530	0.557	-5.1	145	-0.01
12	2-Methylnaphthalene	0.676	0.639	5.5	126	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	131	-0.01
14 S	2,4,6-Tribromophenol	0.104	0.108	-3.8	141	-0.01
15 S	2-Fluorobiphenyl	1.673	1.607	3.9	128	-0.01
16	Acenaphthylene	1.834	1.658	9.6	122	0.00
17	Acenaphthene	1.240	1.173	5.4	127	-0.01
18	Fluorene	1.502	1.355	9.8	124	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.037	0.027	27.0#	94	-0.01
21	4-Bromophenyl-phenylether	0.261	0.248	5.0	116	-0.01
22	Hexachlorobenzene	0.300	0.329	-9.7	131	-0.01
23	Atrazine	0.166	0.154	7.2	119	-0.01
24	Pentachlorophenol	0.087	0.077	11.5	122	0.00
25	Phenanthrene	1.259	1.194	5.2	114	-0.01
26	Anthracene	1.116	0.991	11.2	108	-0.01
27 SURR	Fluoranthene-d10	1.004	0.898	10.6	112	0.00
28	Fluoranthene	1.381	1.106	19.9	99	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.566	1.622	-3.6	97	0.00
31 S	Terphenyl-d14	0.812	0.784	3.4	91	-0.01
32	Benzo(a)anthracene	1.395	1.277	8.5	88	0.00
33	Chrysene	1.496	1.440	3.7	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.414	0.461	-11.4	114	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	93	-0.01
36	Indeno(1,2,3-cd)pyrene	1.681	1.667	0.8	100	-0.02
37	Benzo(b)fluoranthene	1.575	1.587	-0.8	95	0.00
38	Benzo(k)fluoranthene	1.606	1.609	-0.2	98	-0.01
39 C	Benzo(a)pyrene	1.261	1.208	4.2	94	0.00
40	Dibenzo(a,h)anthracene	1.342	1.261	6.0	97	-0.02
41	Benzo(g,h,i)perylene	1.506	1.483	1.5	95	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037859.D
Acq On : 22 Sep 2025 16:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 22 17:47:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 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	122	0.00
2	1,4-Dioxane	0.400	0.379	5.3	114	0.00
3	n-Nitrosodimethylamine	0.400	0.395	1.3	116	0.00
4 S	2-Fluorophenol	0.400	0.379	5.3	119	0.00
5 S	Phenol-d6	0.400	0.385	3.8	121	0.00
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	119	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	130	-0.01
8 S	Nitrobenzene-d5	0.400	0.401	-0.3	134	-0.01
9	Naphthalene	0.400	0.382	4.5	126	0.00
10	Hexachlorobutadiene	0.400	0.364	9.0	119	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	145	-0.01
12	2-Methylnaphthalene	0.400	0.378	5.5	126	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	131	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.415	-3.7	141	-0.01
15 S	2-Fluorobiphenyl	0.400	0.384	4.0	128	-0.01
16	Acenaphthylene	0.400	0.362	9.5	122	0.00
17	Acenaphthene	0.400	0.378	5.5	127	-0.01
18	Fluorene	0.400	0.361	9.8	124	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.288	28.0#	94	-0.01
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	116	-0.01
22	Hexachlorobenzene	0.400	0.438	-9.5	131	-0.01
23	Atrazine	0.400	0.372	7.0	119	-0.01
24	Pentachlorophenol	0.400	0.355	11.3	122	0.00
25	Phenanthrene	0.400	0.379	5.3	114	-0.01
26	Anthracene	0.400	0.355	11.3	108	-0.01
27 SURR	Fluoranthene-d10	0.400	0.358	10.5	112	0.00
28	Fluoranthene	0.400	0.320	20.0	99	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.414	-3.5	97	0.00
31 S	Terphenyl-d14	0.400	0.386	3.5	91	-0.01
32	Benzo(a)anthracene	0.400	0.366	8.5	88	0.00
33	Chrysene	0.400	0.385	3.8	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.446	-11.5	114	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	93	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.397	0.8	100	-0.02
37	Benzo(b)fluoranthene	0.400	0.403	-0.8	95	0.00
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	98	-0.01
39 C	Benzo(a)pyrene	0.400	0.383	4.3	94	0.00
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	97	-0.02
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	95	-0.02

(#) = 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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/24/2025 09:54
 Lab File ID: BN037871.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	0.502		-9.7	20.0
Fluoranthene-d10	1.006	0.885		-12.0	20.0
2-Fluorophenol	0.913	0.826		-9.5	20.0
Phenol-d6	1.199	1.076		-10.3	20.0
Nitrobenzene-d5	0.305	0.287		-5.9	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
2,4,6-Tribromophenol	0.152	0.122		-19.7	20.0
Terphenyl-d14	0.797	0.725		-9.0	20.0
1,4-Dioxane	0.406	0.419		3.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037871.D
 Acq On : 24 Sep 2025 09:54
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 24 11:11:27 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

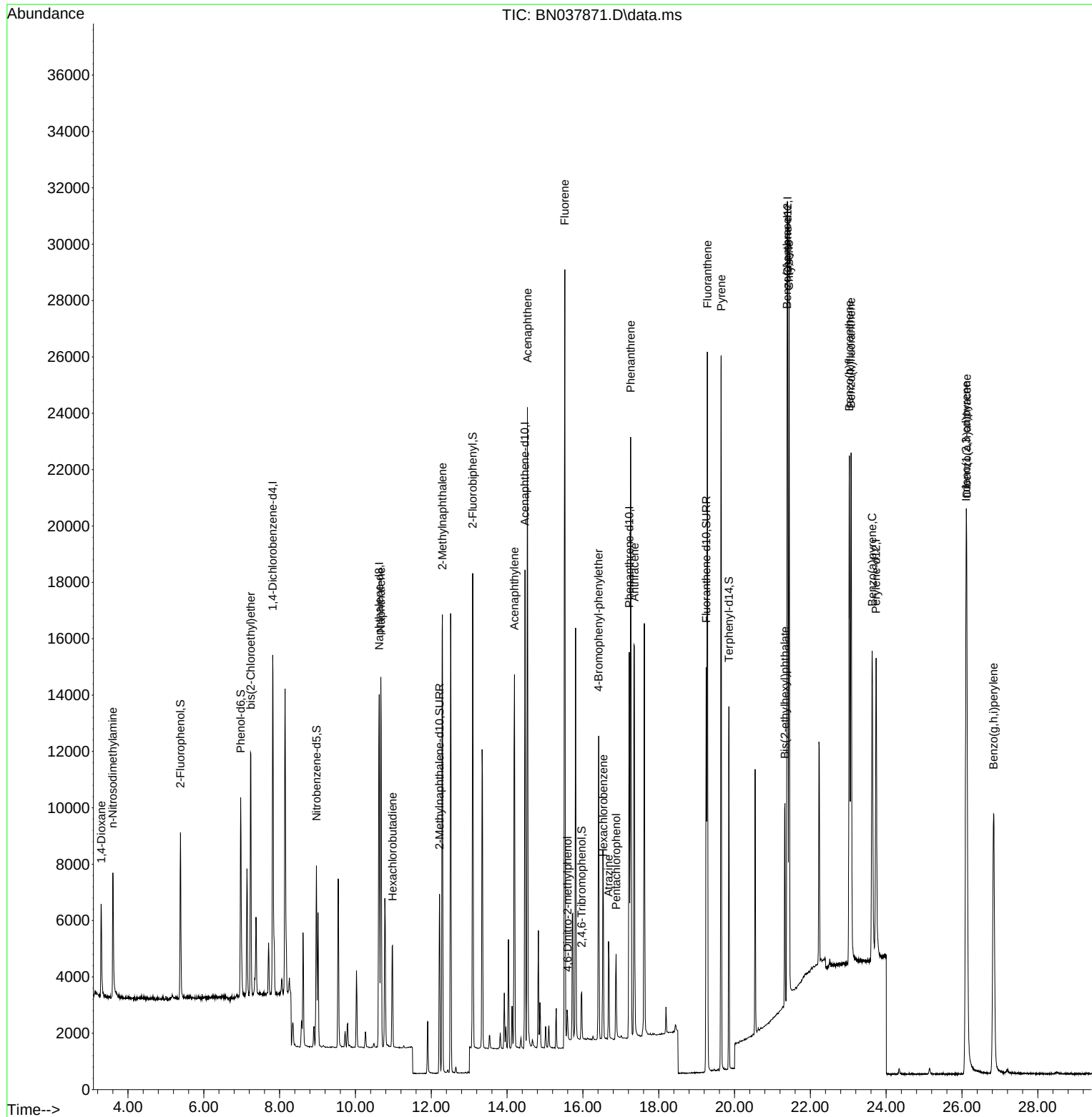
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	6027	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16875	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8790	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17707	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15660	0.400	ng	0.00
35) Perylene-d12	23.735	264	14846	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4980	0.362	ng	0.00
5) Phenol-d6	6.973	99	6488	0.359	ng	0.00
8) Nitrobenzene-d5	8.971	82	4847	0.377	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8473	0.361	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1071	0.321	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	13879	0.386	ng	0.00
27) Fluoranthene-d10	19.252	212	15676	0.352	ng	0.00
31) Terphenyl-d14	19.852	244	11356	0.364	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2525	0.413	ng	97
3) n-Nitrosodimethylamine	3.600	42	3202	0.393	ng	# 88
6) bis(2-Chloroethyl)ether	7.240	93	6421	0.383	ng	99
9) Naphthalene	10.669	128	17858	0.384	ng	100
10) Hexachlorobutadiene	10.978	225	3114	0.393	ng	# 100
12) 2-Methylnaphthalene	12.293	142	11287	0.372	ng	99
16) Acenaphthylene	14.195	152	14763	0.370	ng	99
17) Acenaphthene	14.537	154	10658	0.375	ng	99
18) Fluorene	15.522	166	13226	0.385	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	694	0.373	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4110	0.356	ng	100
22) Hexachlorobenzene	16.540	284	5400	0.386	ng	99
23) Atrazine	16.677	200	2979	0.339	ng	# 87
24) Pentachlorophenol	16.875	266	1599	0.333	ng	95
25) Phenanthrene	17.260	178	21385	0.367	ng	100
26) Anthracene	17.359	178	17791	0.352	ng	100
28) Fluoranthene	19.285	202	23036	0.359	ng	99
30) Pyrene	19.647	202	22662	0.367	ng	100
32) Benzo(a)anthracene	21.384	228	19693	0.360	ng	100
33) Chrysene	21.438	228	22733	0.384	ng	100
34) Bis(2-ethylhexyl)phtha...	21.330	149	7423	0.343	ng	99
36) Indeno(1,2,3-cd)pyrene	26.109	276	26646	0.393	ng	99
37) Benzo(b)fluoranthene	23.028	252	23575	0.368	ng	99
38) Benzo(k)fluoranthene	23.075	252	24415	0.379	ng	99
39) Benzo(a)pyrene	23.630	252	18325	0.362	ng	100
40) Dibenzo(a,h)anthracene	26.124	278	20887	0.394	ng	99
41) Benzo(g,h,i)perylene	26.835	276	21736	0.391	ng	98

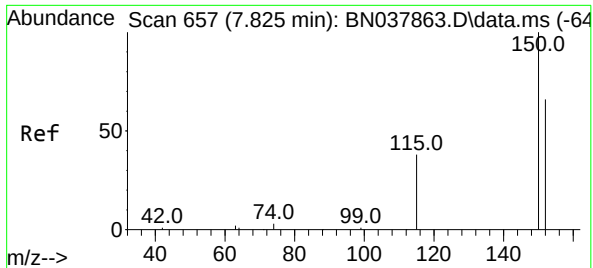
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 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

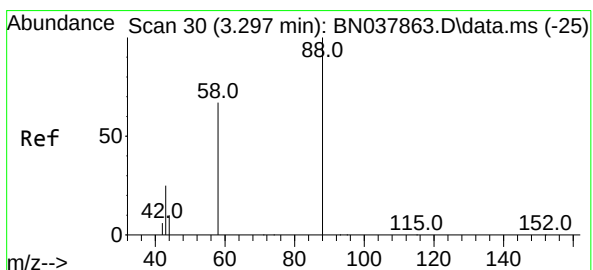
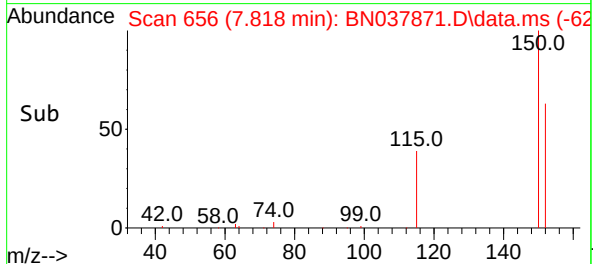
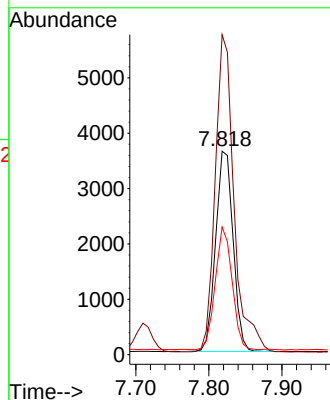
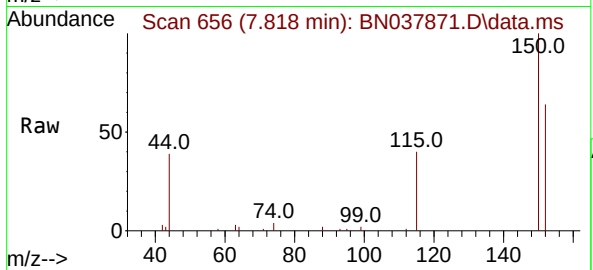




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

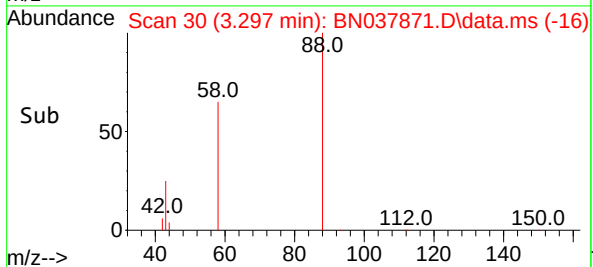
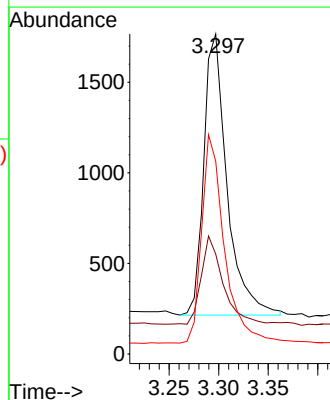
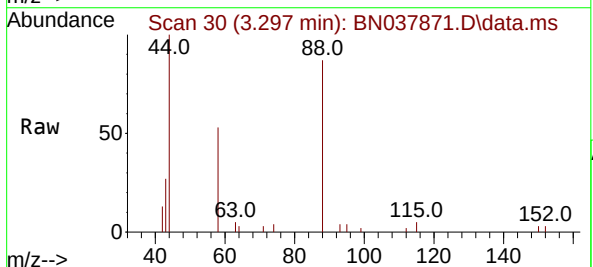
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

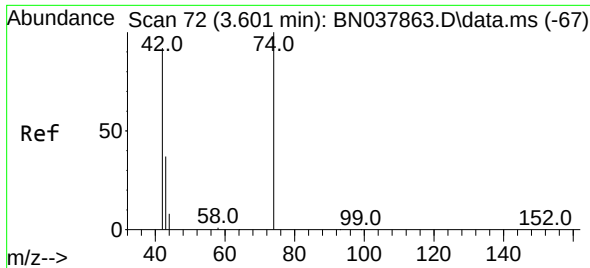
Tgt Ion:152 Resp: 6027
Ion Ratio Lower Upper
152 100
150 157.2 121.0 181.4
115 62.8 47.4 71.0



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 88 Resp: 2525
Ion Ratio Lower Upper
88 100
43 29.5 26.6 39.8
58 72.2 58.9 88.3

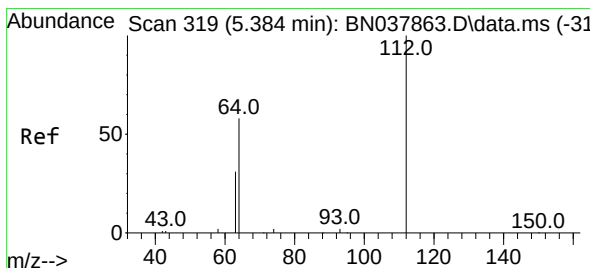
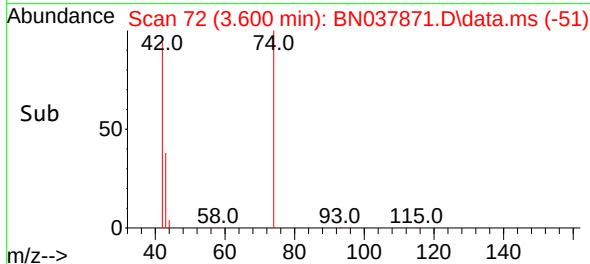
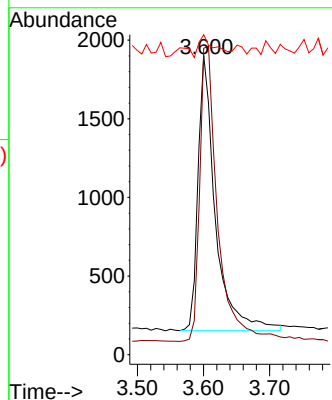
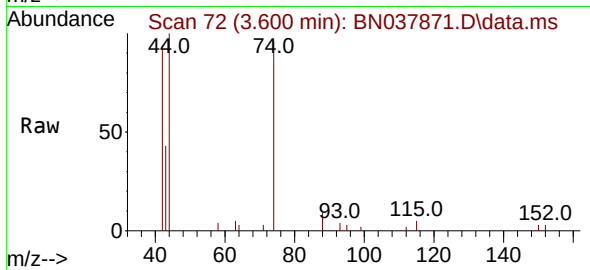




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

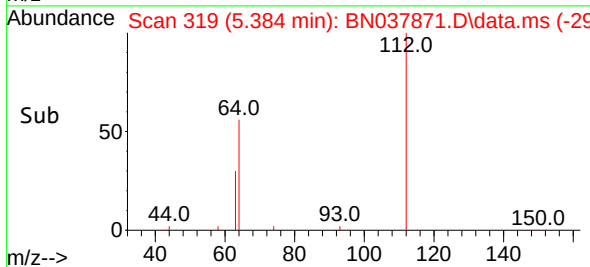
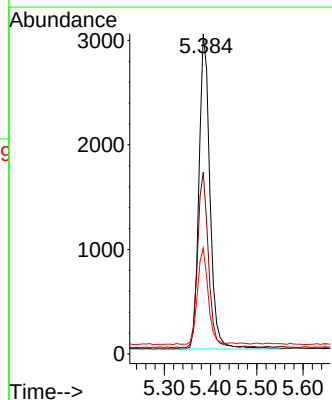
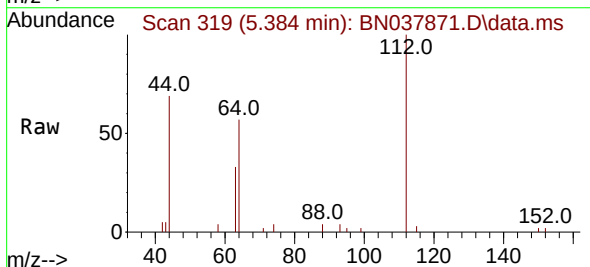
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

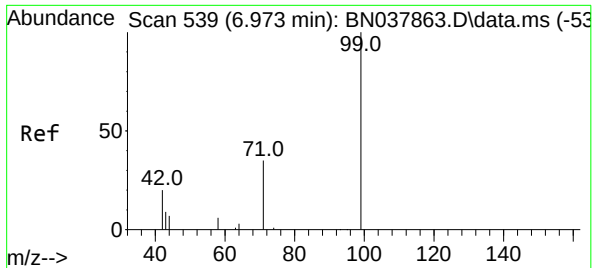
Tgt Ion: 42 Resp: 3202
Ion Ratio Lower Upper
42 100
74 111.2 93.4 140.0
44 7.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 112 Resp: 4980
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.6 24.9 37.3

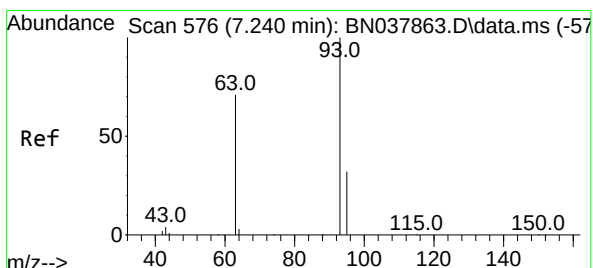
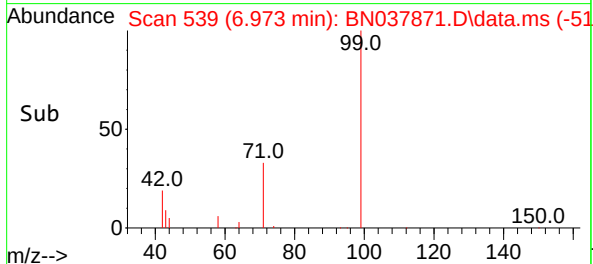
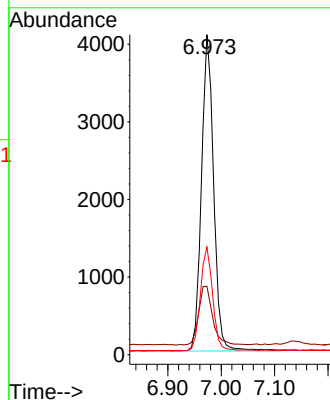
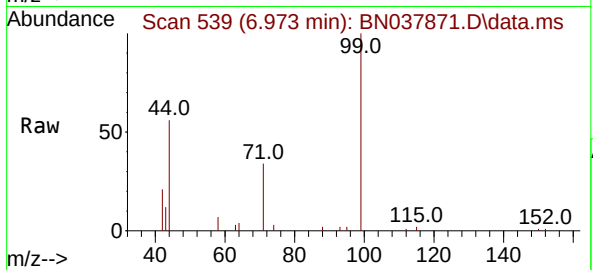




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.973 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

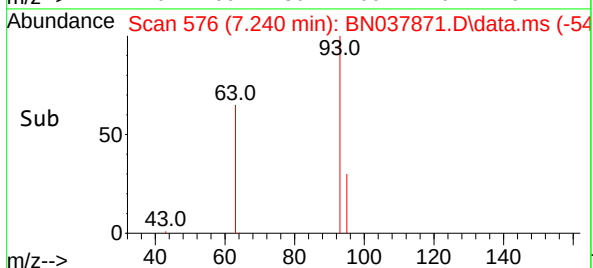
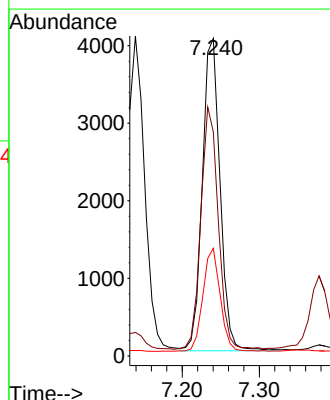
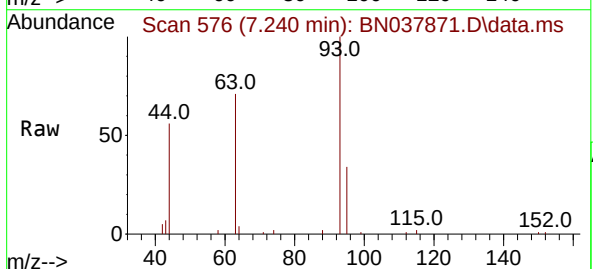
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

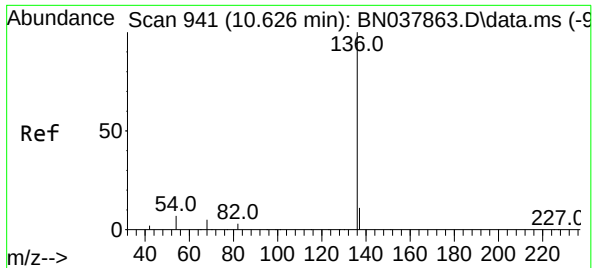
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	33.0	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.8	60.1	90.1
95	32.2	25.4	38.2

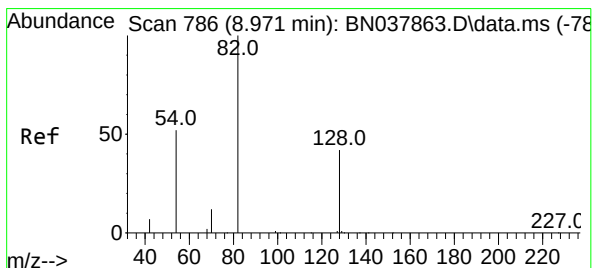
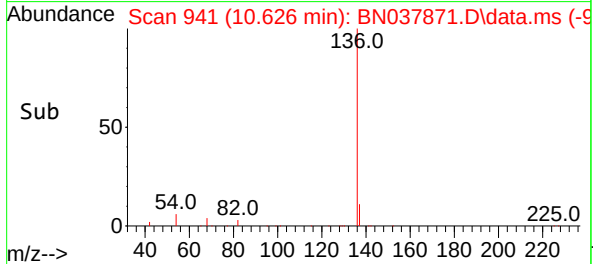
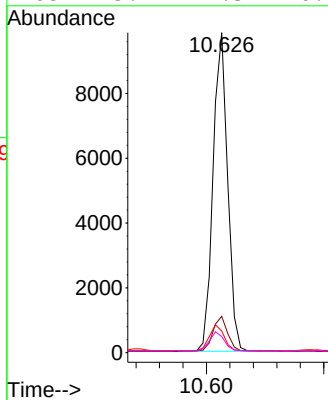
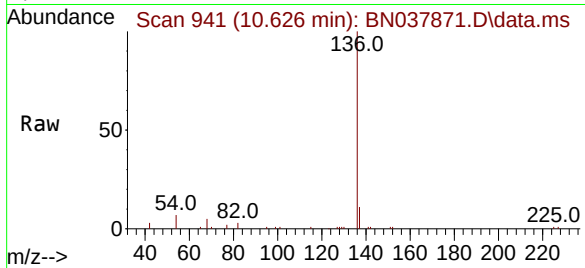




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

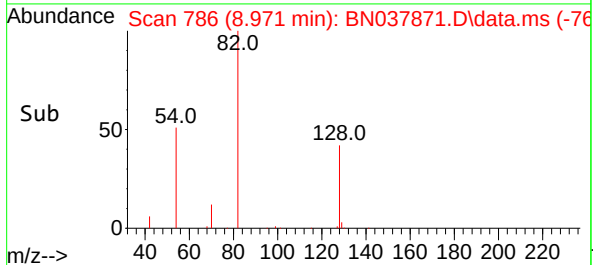
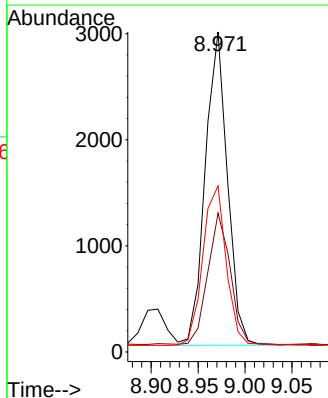
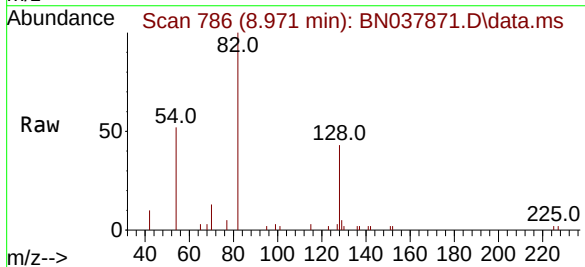
Instrument :
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ClientSampleId :
SSTDCCC0.4

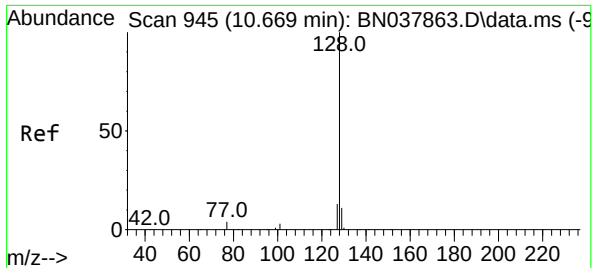
Tgt Ion:	136	Resp:	16875
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.8	5.8	8.8
68	5.1	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.377 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	82	Resp:	4847
Ion	Ratio	Lower	Upper
82	100		
128	43.3	34.8	52.2
54	51.9	42.2	63.2

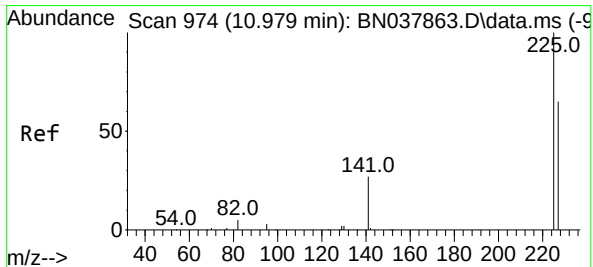
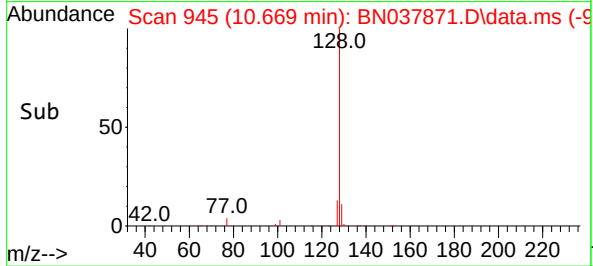
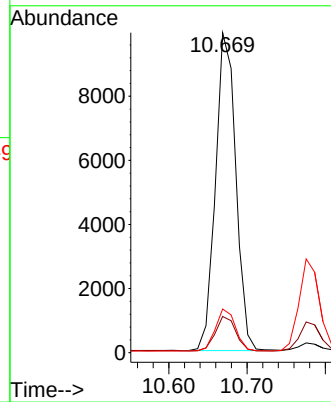
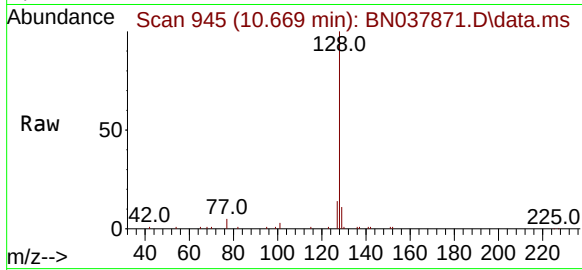




#9
Naphthalene
Concen: 0.384 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

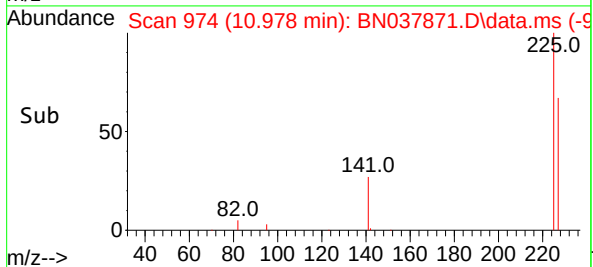
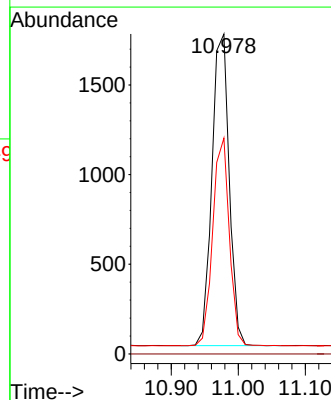
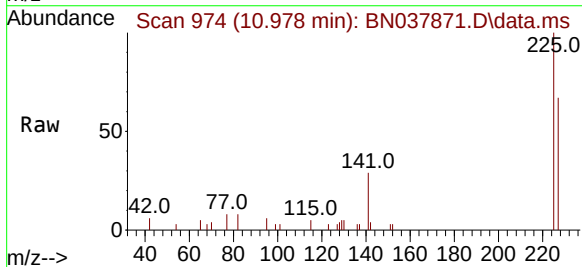
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

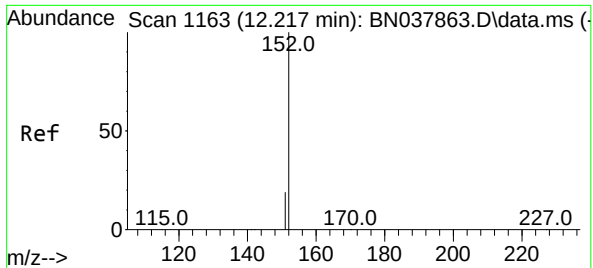
Tgt Ion:	128	Resp:	17858
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.2	13.8
127	13.6	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	225	Resp:	3114
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.0	51.4	77.2

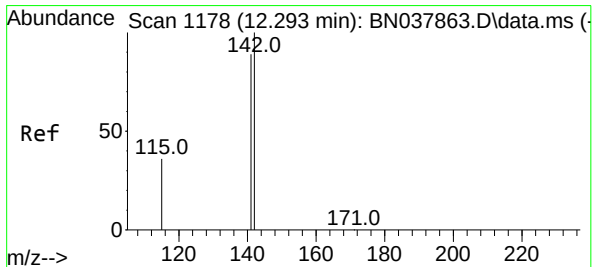
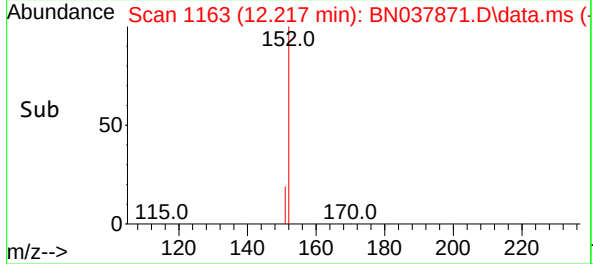
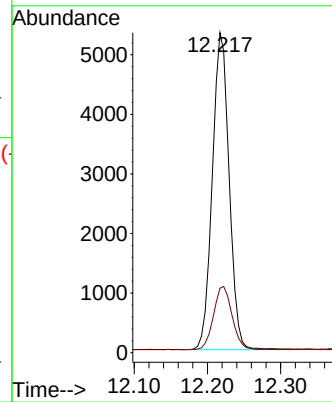
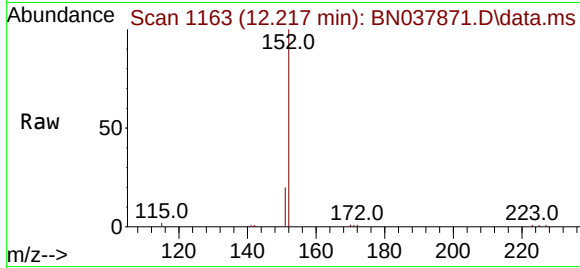




#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

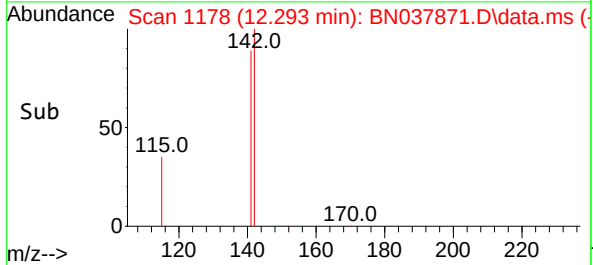
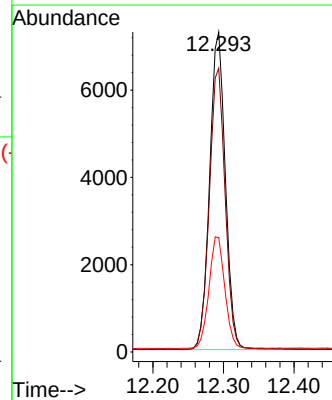
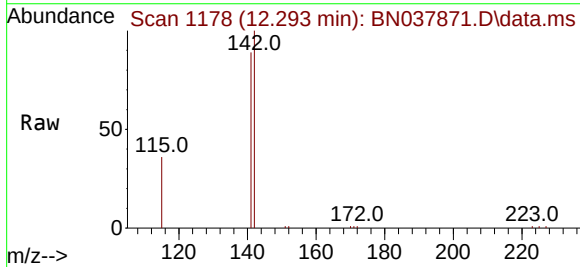
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ClientSampleId :
SSTDCCC0.4

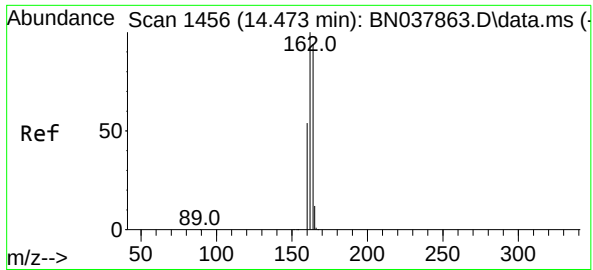
Tgt Ion:152 Resp: 8473
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:142 Resp: 11287
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 35.7 29.7 44.5

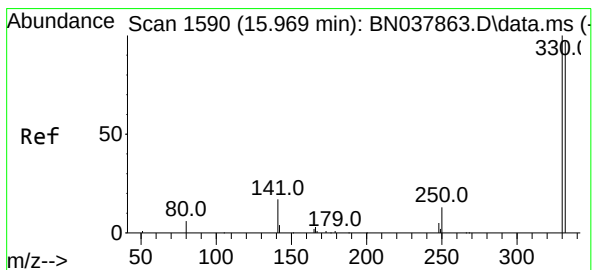
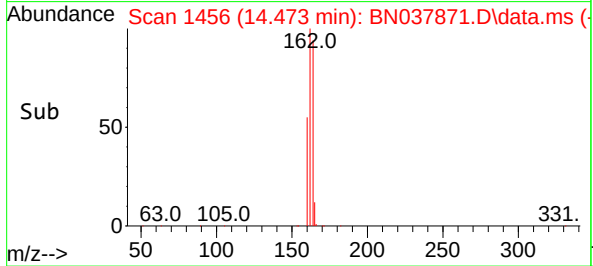
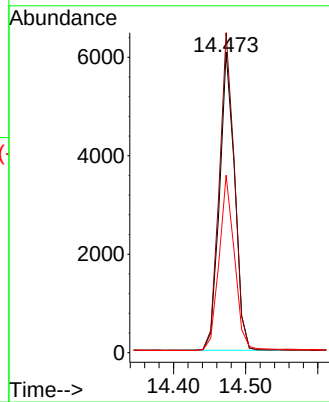
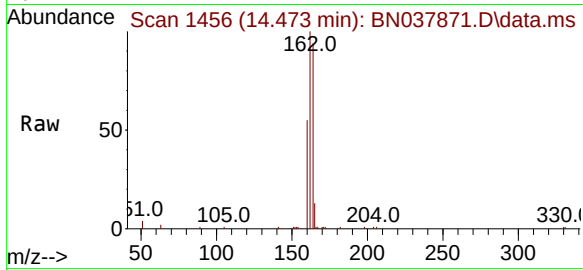




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

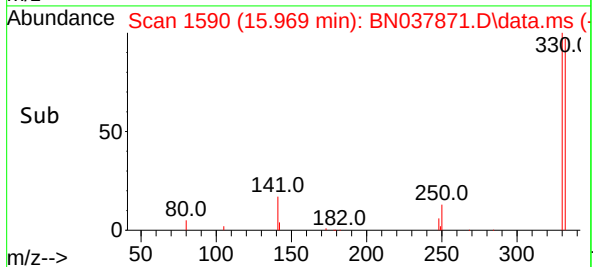
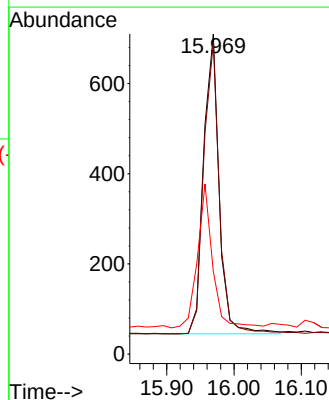
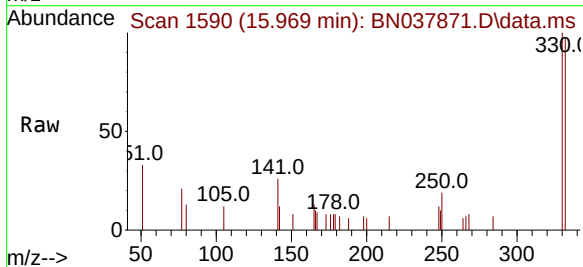
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

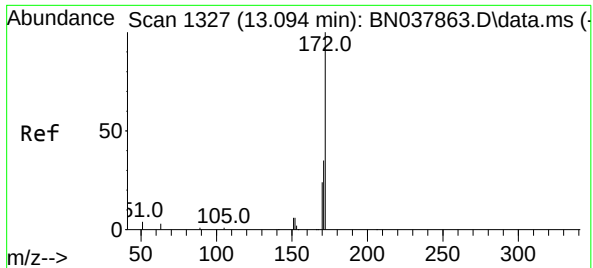
Tgt Ion:164 Resp: 8790
Ion Ratio Lower Upper
164 100
162 106.4 84.8 127.2
160 59.0 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:330 Resp: 1071
Ion Ratio Lower Upper
330 100
332 97.9 77.2 115.8
141 46.7 37.2 55.8

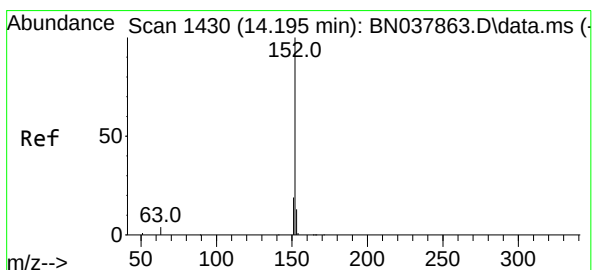
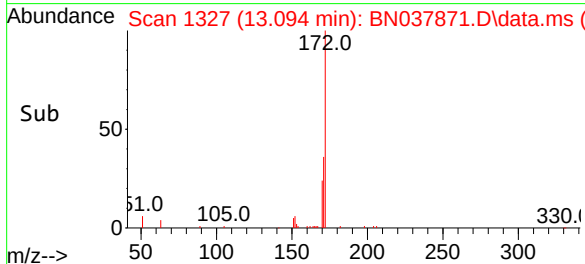
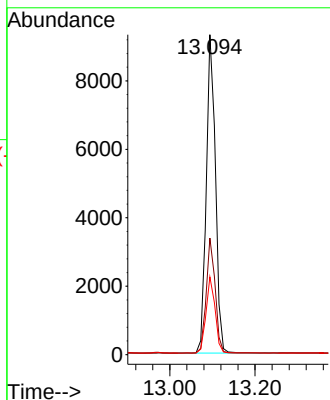
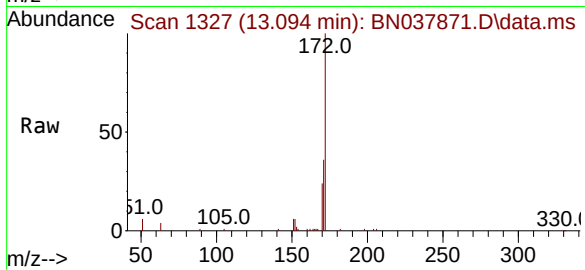




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.094 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

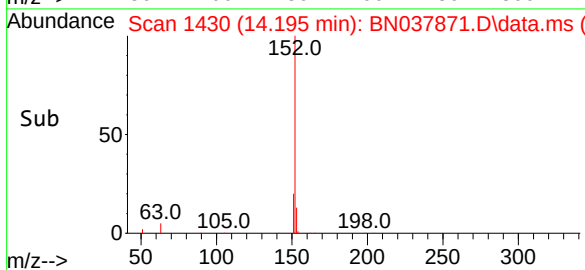
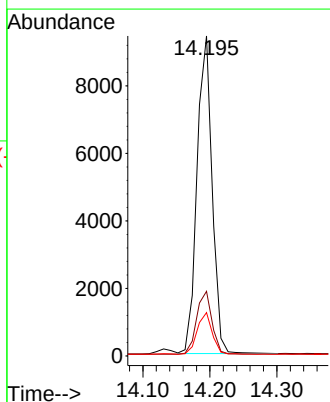
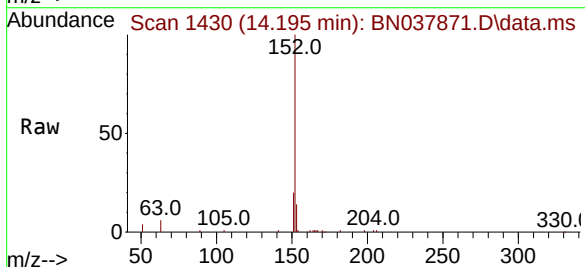
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

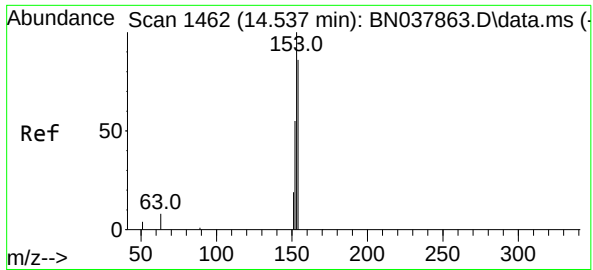
Tgt Ion:	172	Resp:	13879
Ion Ratio	Lower	Upper	
172	100		
171	36.4	28.6	43.0
170	24.3	19.7	29.5



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	152	Resp:	14763
Ion Ratio	Lower	Upper	
152	100		
151	20.2	15.8	23.8
153	13.0	10.5	15.7

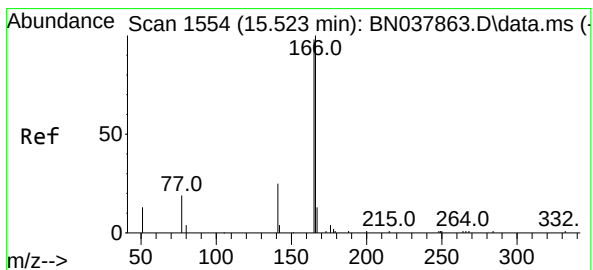
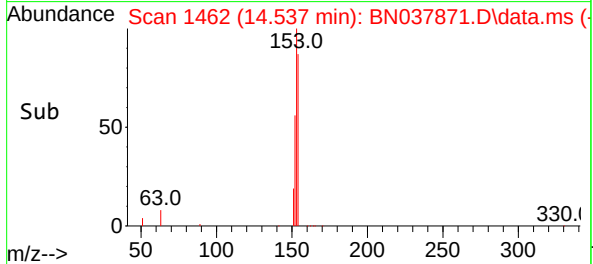
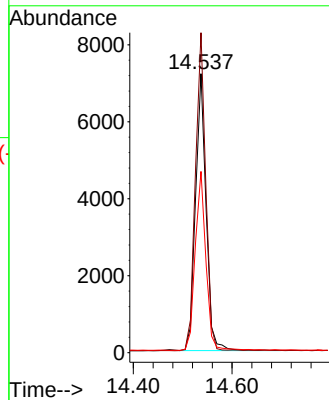
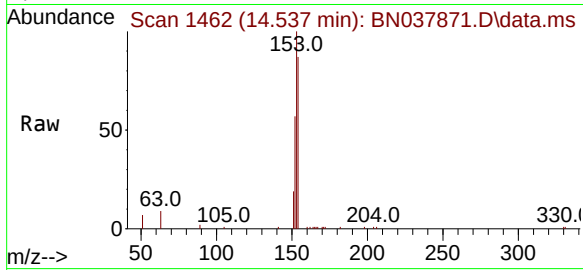




#17
Acenaphthene
Concen: 0.375 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

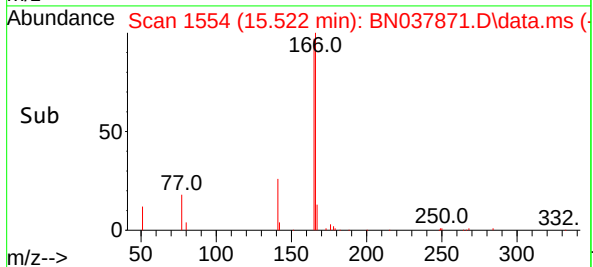
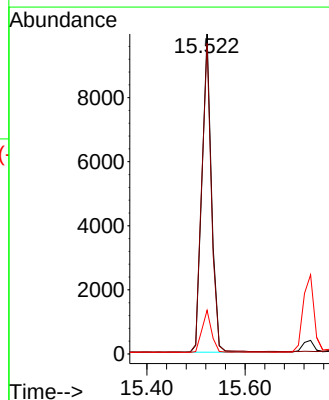
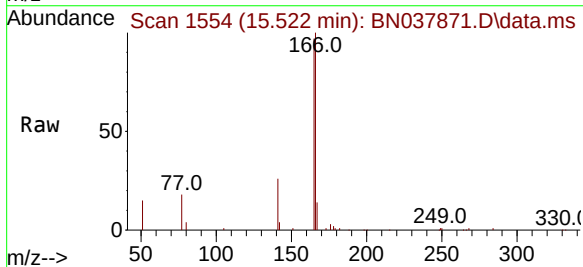
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

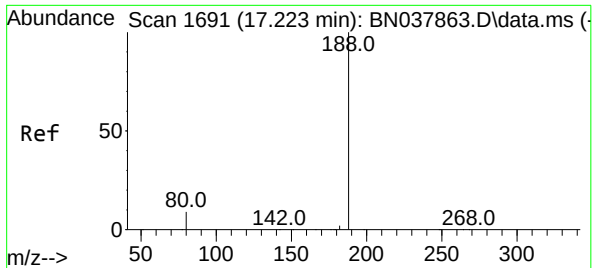
Tgt Ion	154	Resp	10658
Ion Ratio	Lower	Upper	
154	100		
153	112.3	90.5	135.7
152	65.4	51.8	77.8



#18
Fluorene
Concen: 0.385 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	166	Resp	13226
Ion Ratio	Lower	Upper	
166	100		
165	96.2	79.0	118.4
167	13.4	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: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

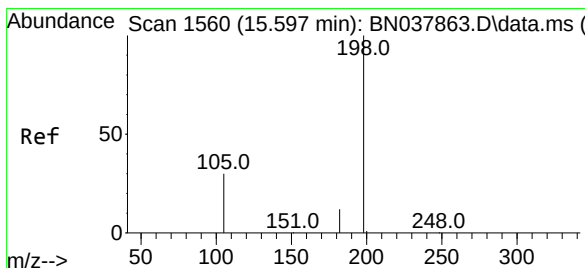
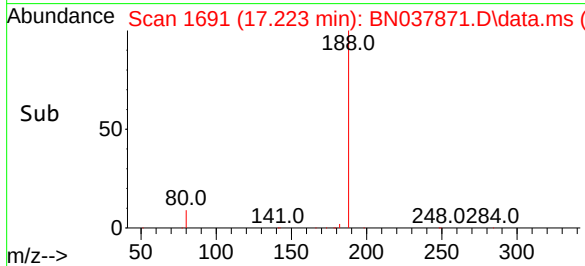
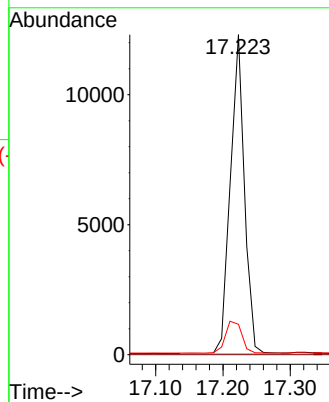
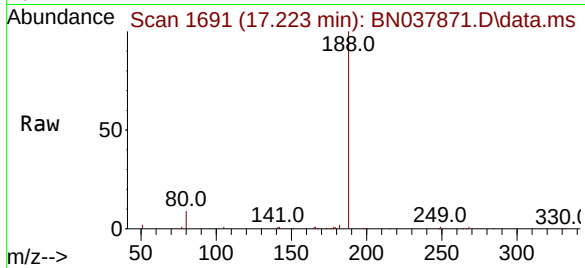
Tgt Ion:188 Resp: 17707

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: 0.373 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

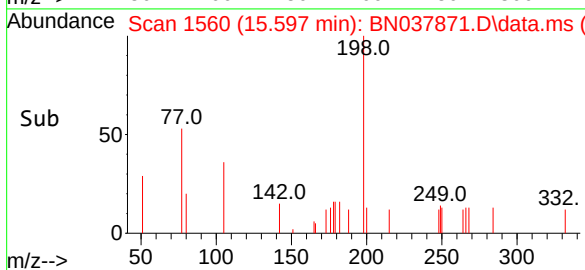
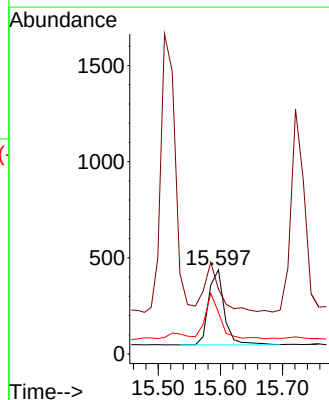
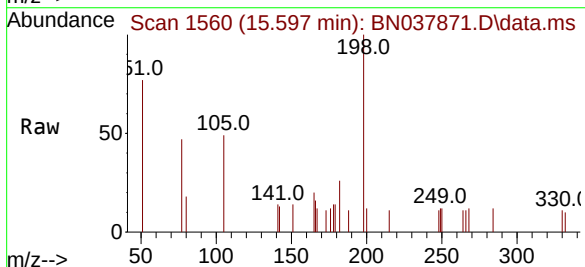
Tgt Ion:198 Resp: 694

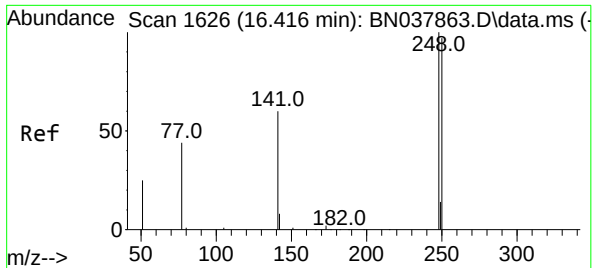
Ion Ratio Lower Upper

198 100

51 76.9 59.1 88.7

105 49.3 41.3 61.9

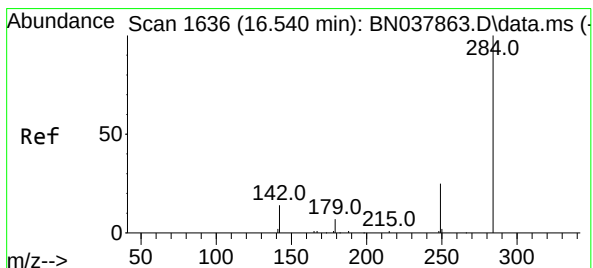
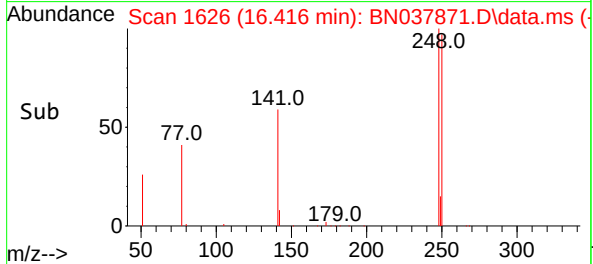
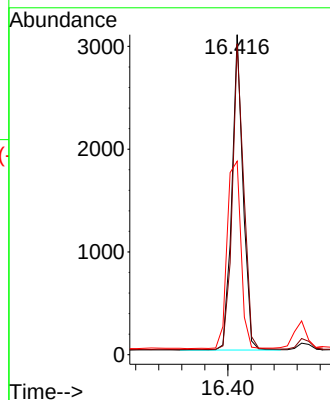
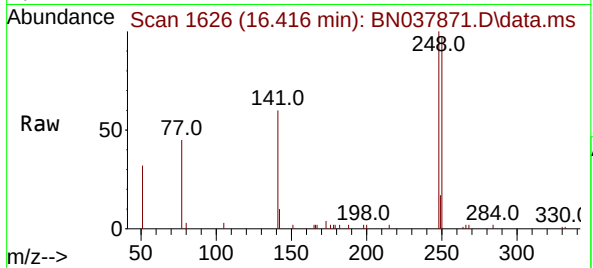




#21
4-Bromophenyl-phenylether
Concen: 0.356 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

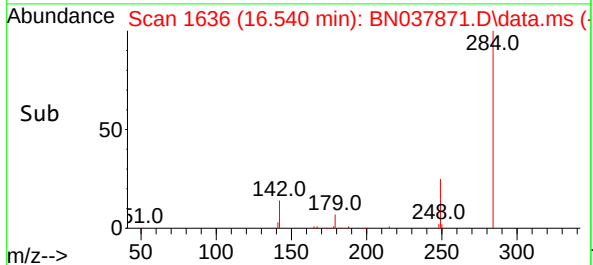
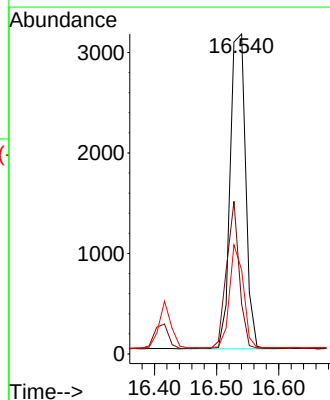
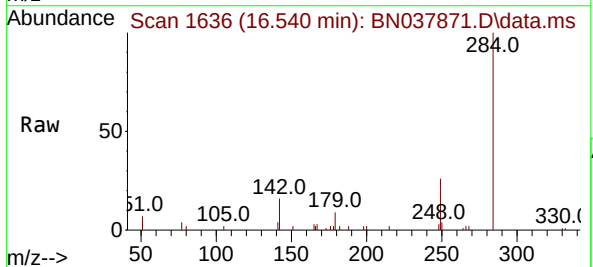
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

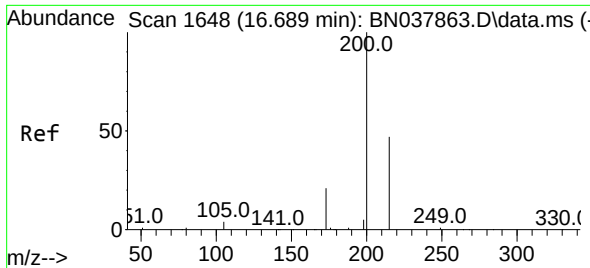
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.6	116.4
141	60.4	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.2	23.9	35.9

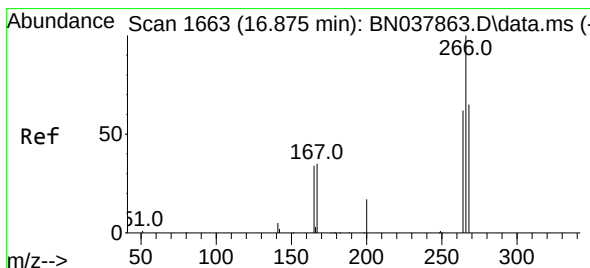
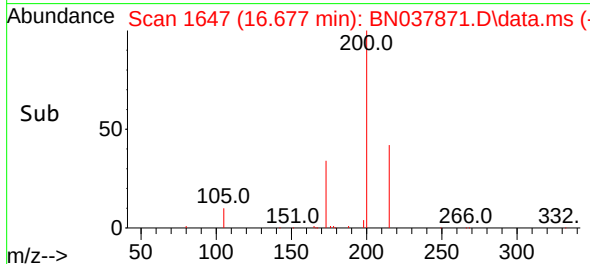
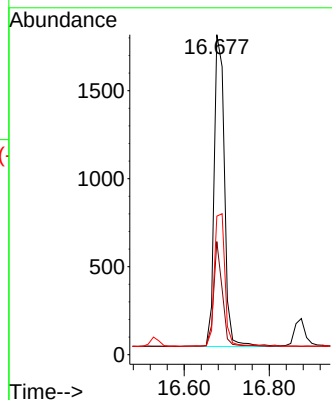
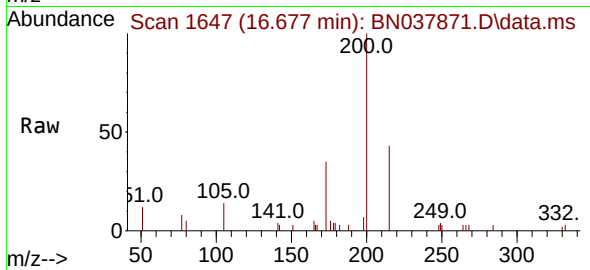




#23
Atrazine
Concen: 0.339 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

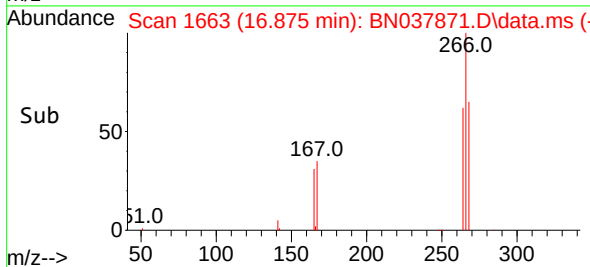
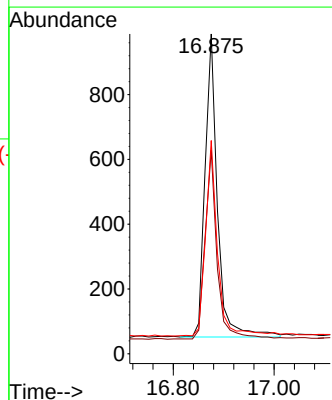
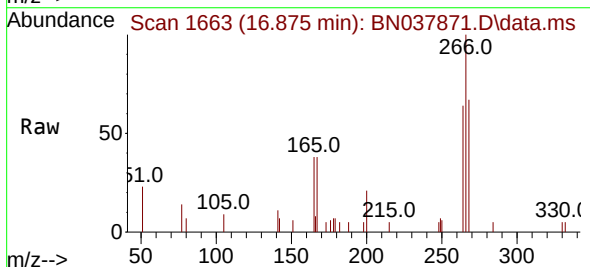
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

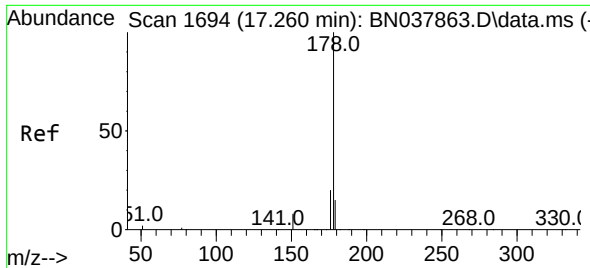
Tgt Ion:200 Resp: 2979
Ion Ratio Lower Upper
200 100
173 35.3 18.3 27.5#
215 43.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.333 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:266 Resp: 1599
Ion Ratio Lower Upper
266 100
264 60.1 50.9 76.3
268 62.9 54.3 81.5

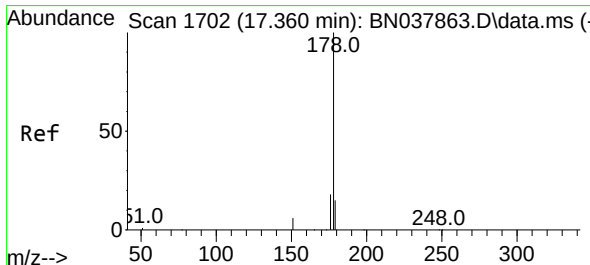
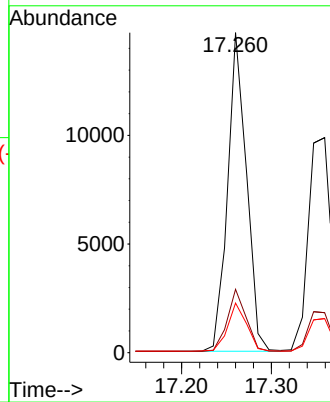
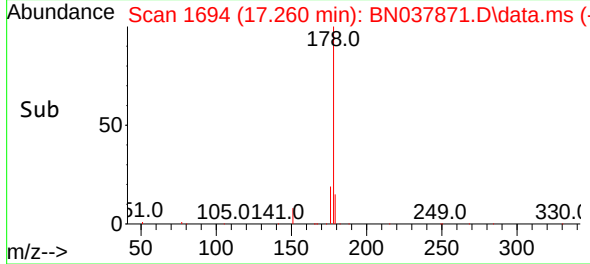
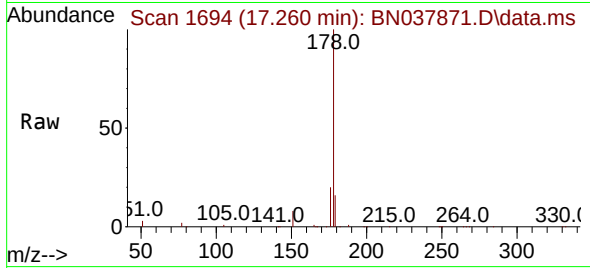




#25
Phenanthrene
Concen: 0.367 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

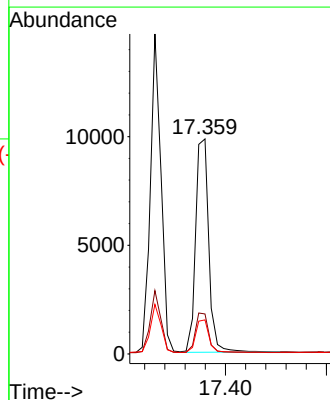
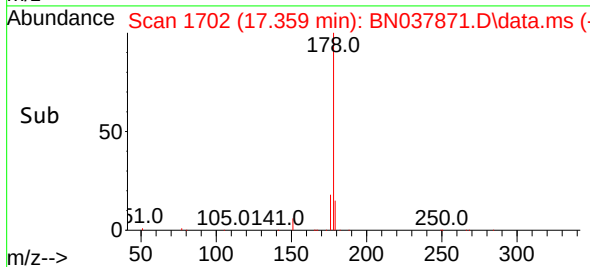
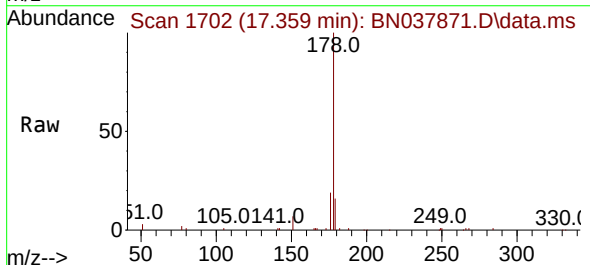
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

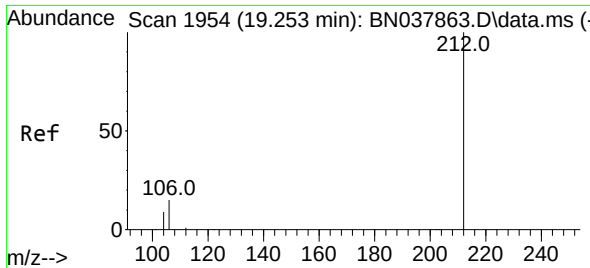
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.1	12.3	18.5



#26
Anthracene
Concen: 0.352 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

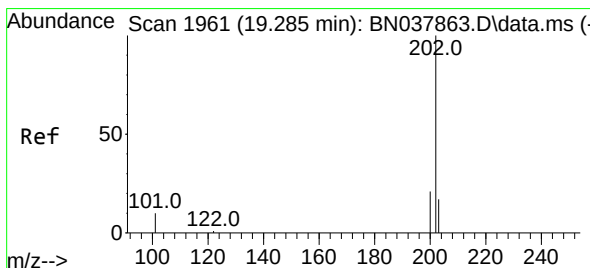
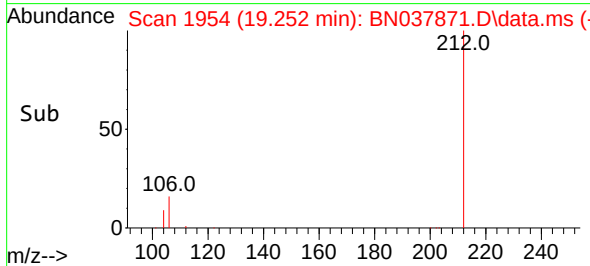
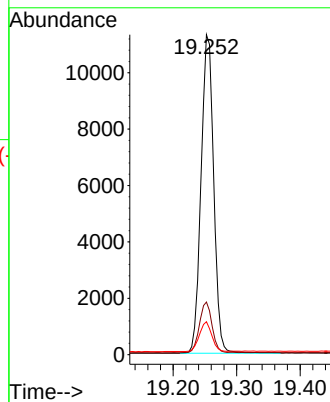
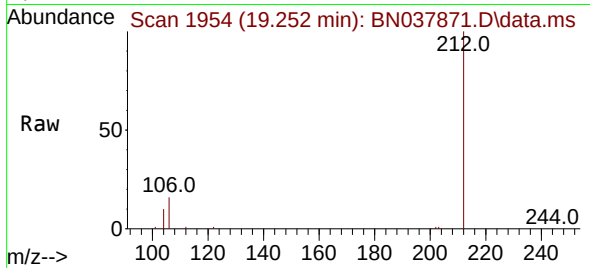
Tgt Ion:212 Resp: 15676

Ion Ratio Lower Upper

212 100

106 15.9 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.359 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

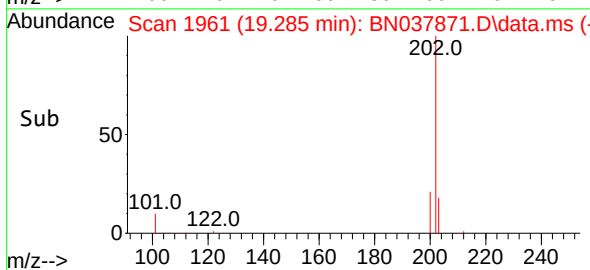
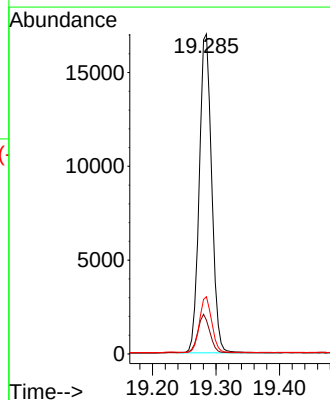
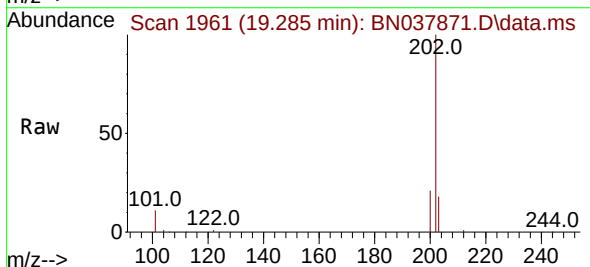
Tgt Ion:202 Resp: 23036

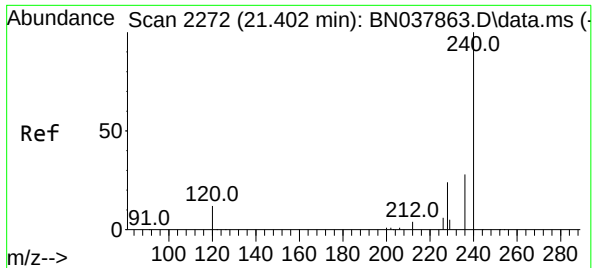
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.3 13.6 20.4

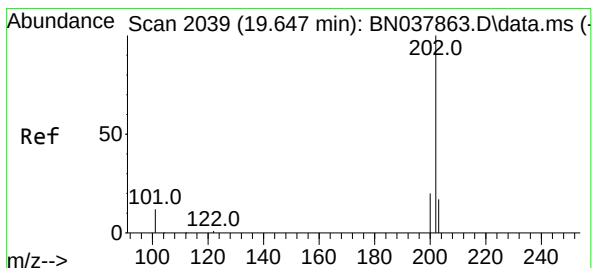
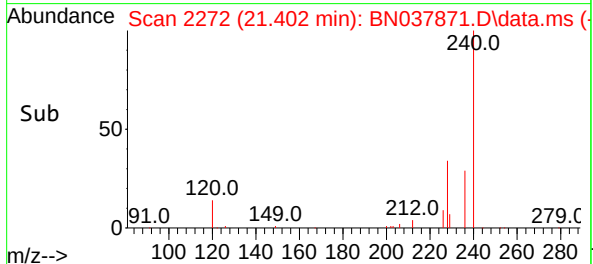
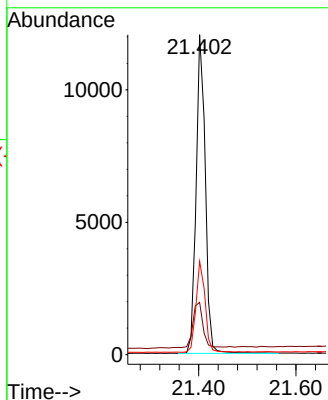
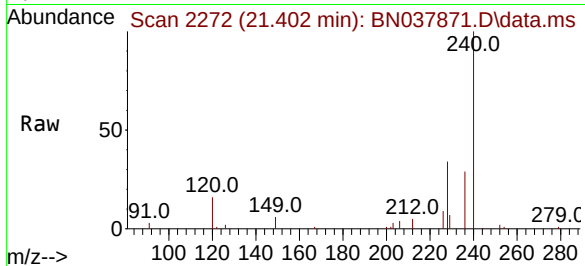




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

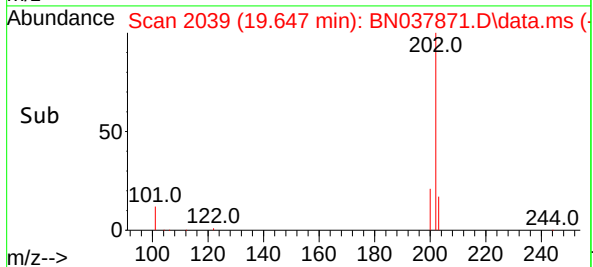
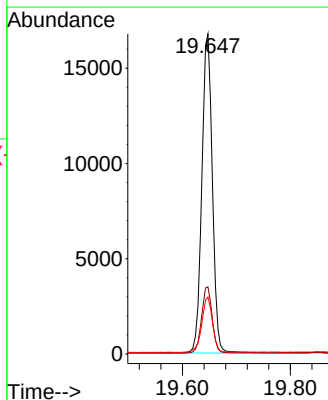
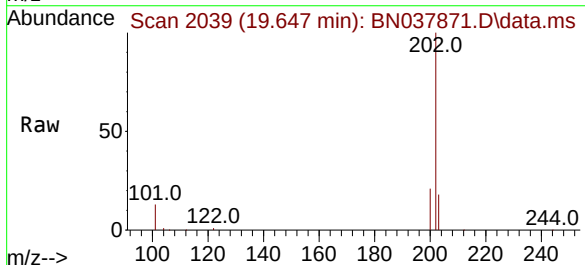
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

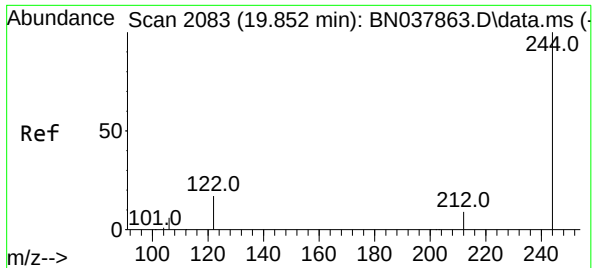
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.3	11.4	17.2
236	29.1	23.0	34.6



#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.2	21.4

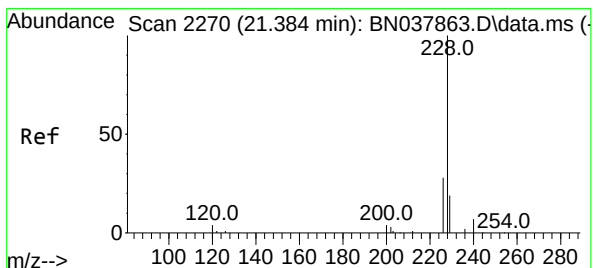
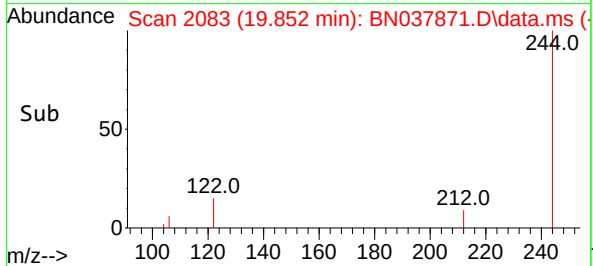
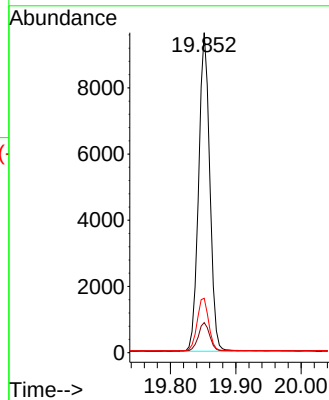
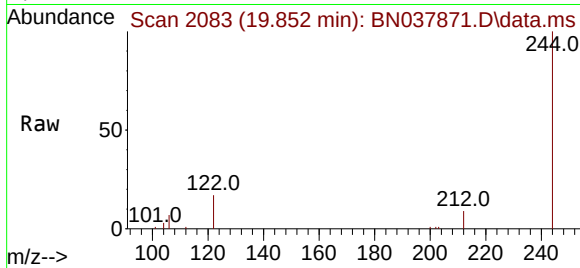




#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

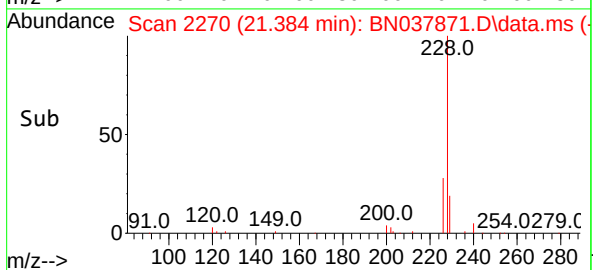
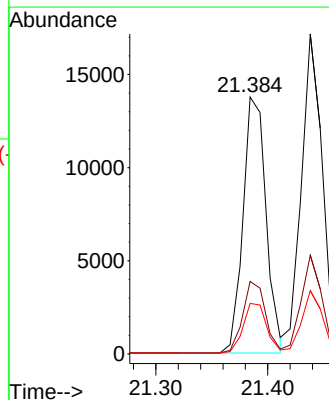
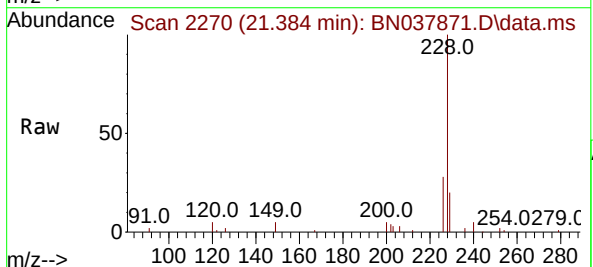
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

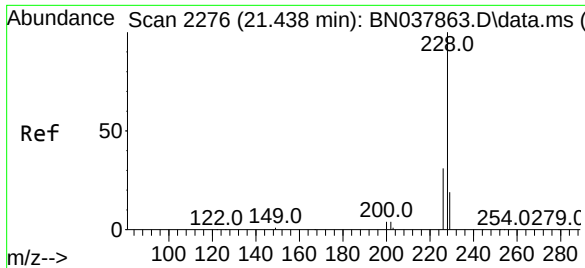
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.6	11.4
122	17.0	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.7	15.6	23.4

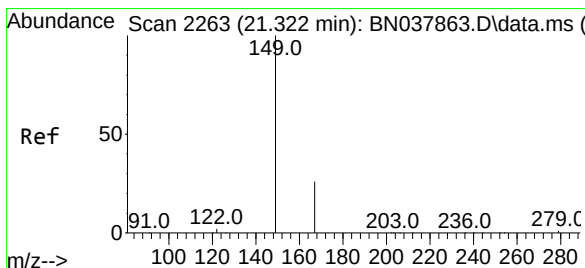
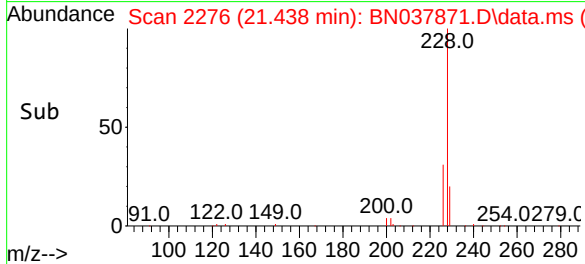
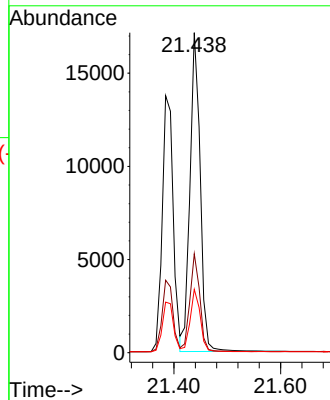
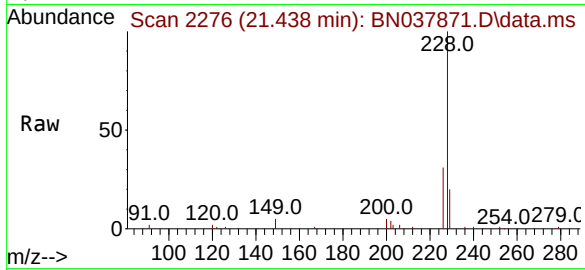




#33
Chrysene
Concen: 0.384 ng
RT: 21.438 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

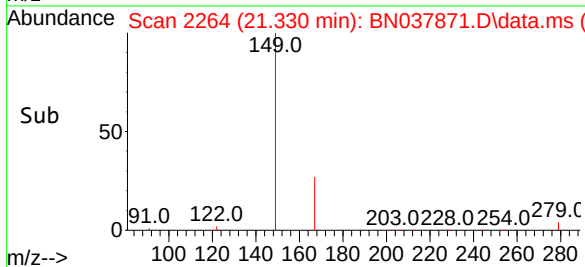
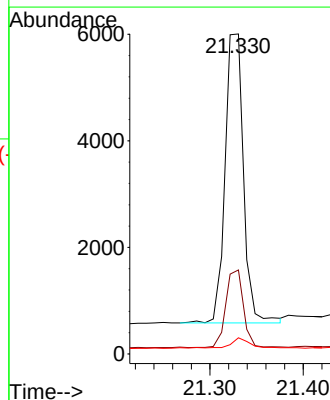
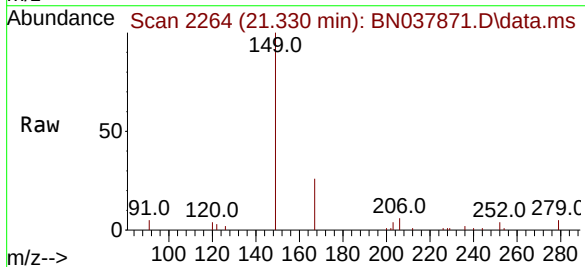
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

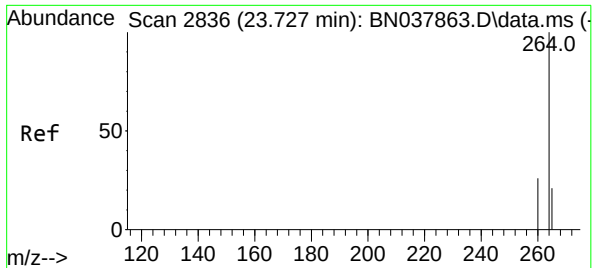
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.8	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.343 ng
RT: 21.330 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.4	30.6
279	3.5	2.4	3.6

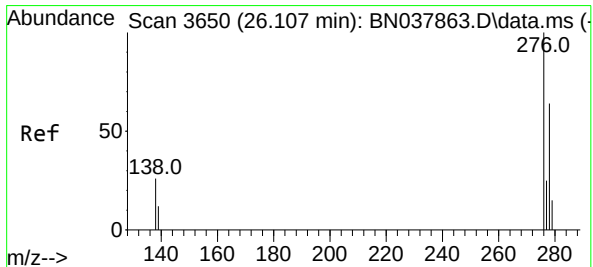
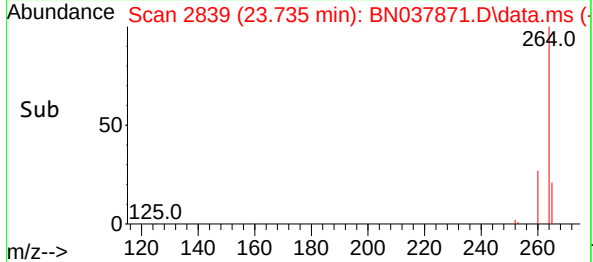
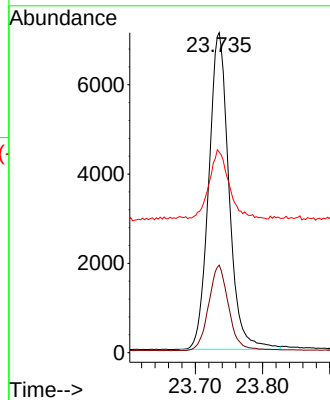
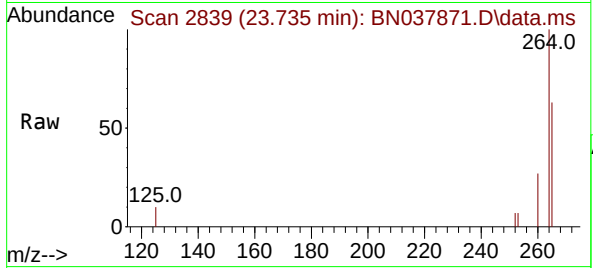




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

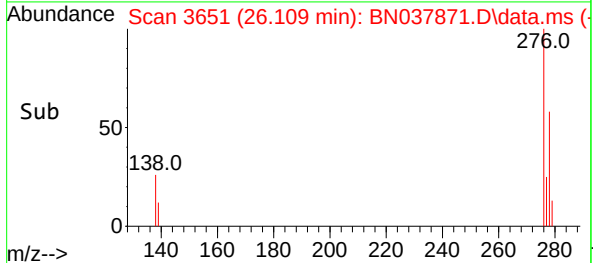
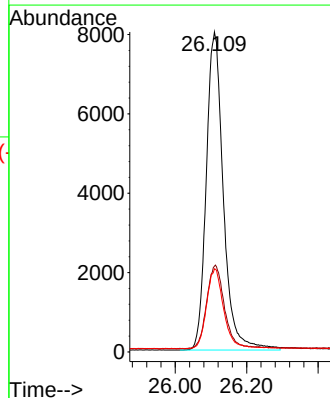
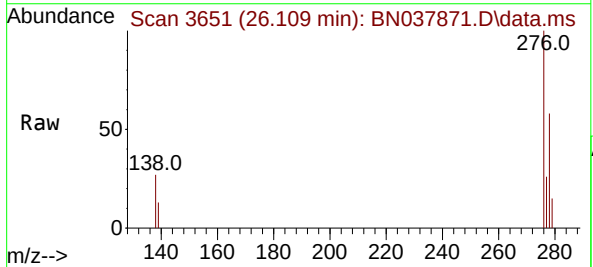
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

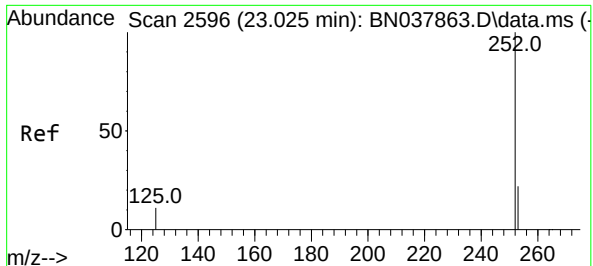
Tgt Ion:	264	Resp:	14846
Ion Ratio	Lower	Upper	
264	100		
260	27.3	21.5	32.3
265	62.7	53.8	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.393 ng
RT: 26.109 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	276	Resp:	26646
Ion Ratio	Lower	Upper	
276	100		
138	27.2	21.4	32.0
277	25.1	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 0.368 ng

RT: 23.028 min Scan# 2597

Delta R.T. 0.003 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

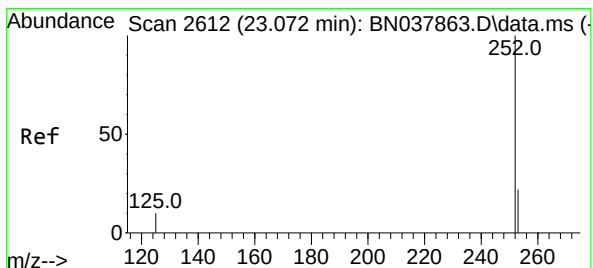
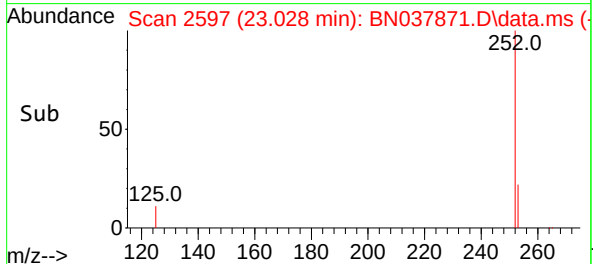
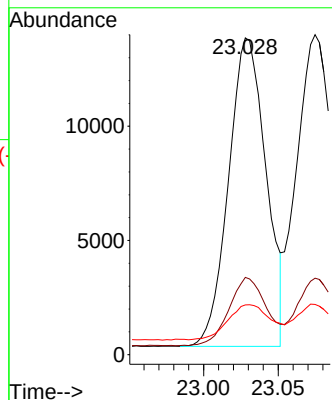
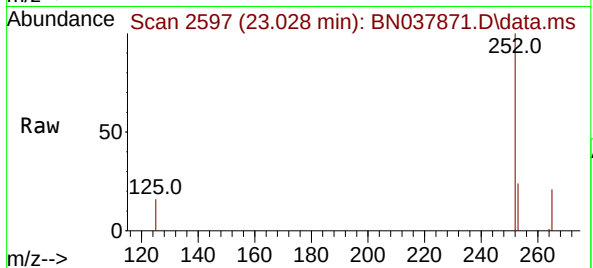
Tgt Ion:252 Resp: 23575

Ion Ratio Lower Upper

252 100

253 24.4 19.4 29.0

125 15.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

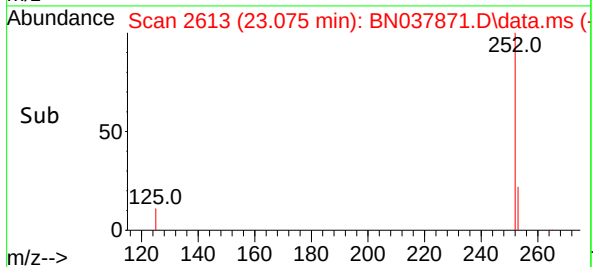
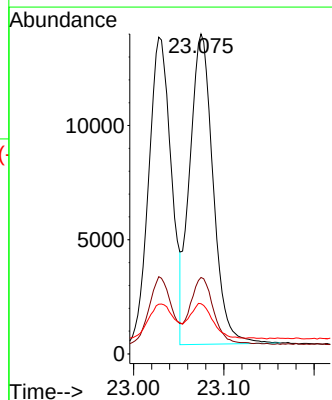
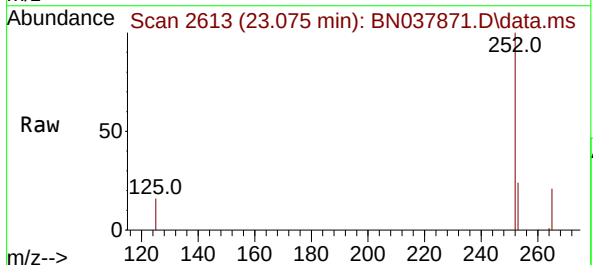
Tgt Ion:252 Resp: 24415

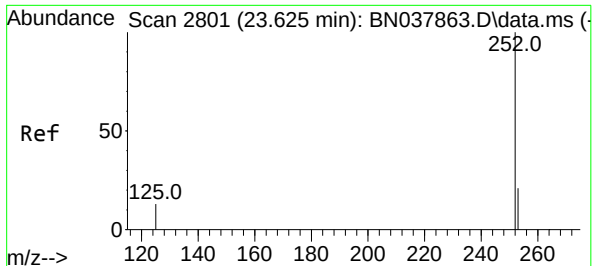
Ion Ratio Lower Upper

252 100

253 23.9 19.5 29.3

125 15.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.630 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

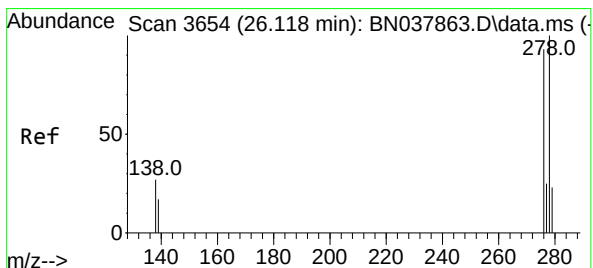
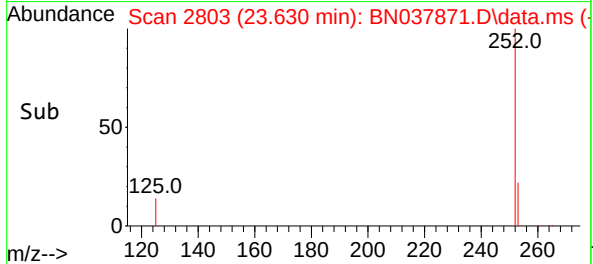
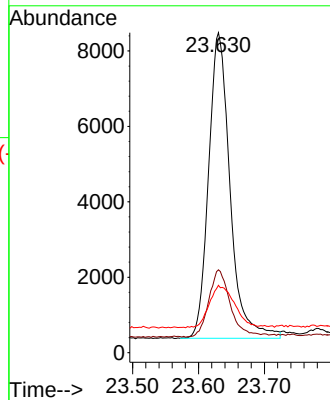
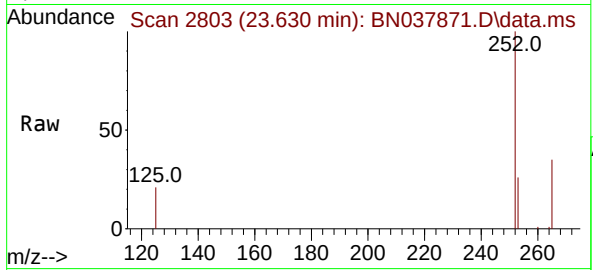
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	18325
Ion Ratio	Lower	Upper	
252	100		
253	25.9	20.6	30.8
125	21.1	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

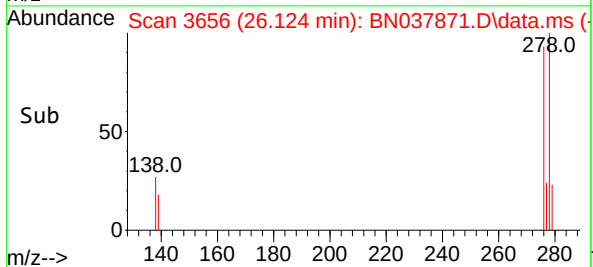
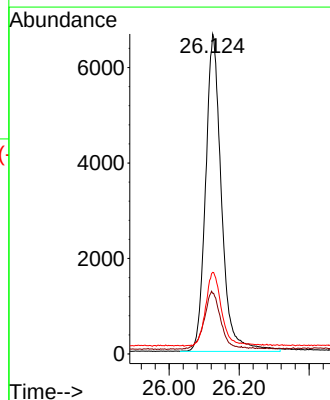
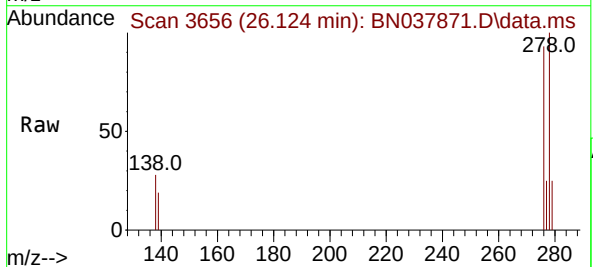
RT: 26.124 min Scan# 3656

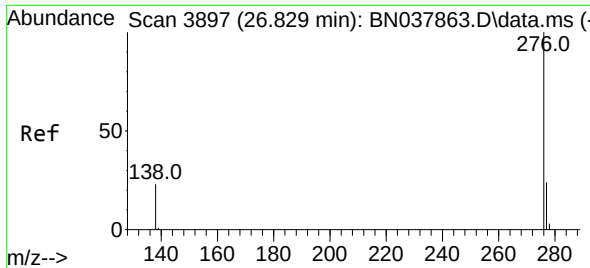
Delta R.T. 0.006 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Tgt Ion:	278	Resp:	20887
Ion Ratio	Lower	Upper	
278	100		
139	19.0	15.4	23.2
279	25.5	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.835 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN037871.D

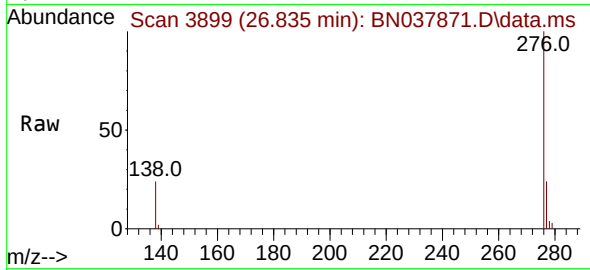
Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



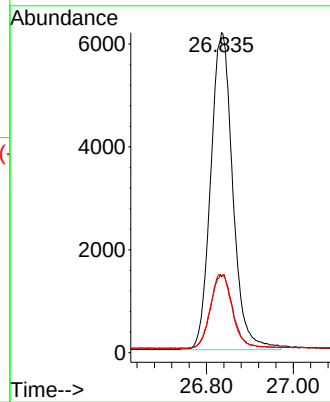
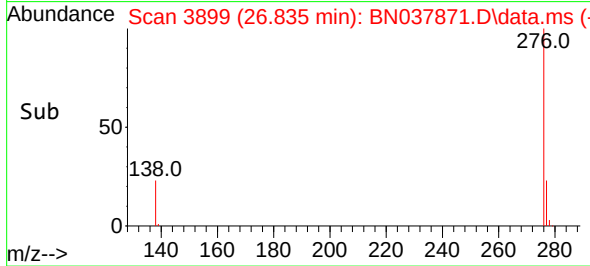
Tgt Ion:276 Resp: 21736

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037871.D
 Acq On : 24 Sep 2025 09:54
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 24 11:11:27 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	108	0.00
2	1,4-Dioxane	0.406	0.419	-3.2	110	0.00
3	n-Nitrosodimethylamine	0.540	0.531	1.7	111	0.00
4 S	2-Fluorophenol	0.913	0.826	9.5	104	0.00
5 S	Phenol-d6	1.199	1.076	10.3	104	0.00
6	bis(2-Chloroethyl)ether	1.113	1.065	4.3	106	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.305	0.287	5.9	106	0.00
9	Naphthalene	1.102	1.058	4.0	108	0.00
10	Hexachlorobutadiene	0.188	0.185	1.6	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.502	9.7	108	0.00
12	2-Methylnaphthalene	0.720	0.669	7.1	107	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.152	0.122	19.7	96	0.00
15 S	2-Fluorobiphenyl	1.638	1.579	3.6	108	0.00
16	Acenaphthylene	1.816	1.680	7.5	108	0.00
17	Acenaphthene	1.294	1.213	6.3	108	0.00
18	Fluorene	1.565	1.505	3.8	110	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.039	31.6#	100	0.00
21	4-Bromophenyl-phenylether	0.261	0.232	11.1	105	0.00
22	Hexachlorobenzene	0.316	0.305	3.5	111	0.00
23	Atrazine	0.199	0.168	15.6	109	-0.01
24	Pentachlorophenol	0.108	0.090	16.7	109	0.00
25	Phenanthrene	1.316	1.208	8.2	109	0.00
26	Anthracene	1.142	1.005	12.0	109	0.00
27 SURR	Fluoranthene-d10	1.006	0.885	12.0	111	0.00
28	Fluoranthene	1.450	1.301	10.3	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	115	0.00
30	Pyrene	1.579	1.447	8.4	110	0.00
31 S	Terphenyl-d14	0.797	0.725	9.0	111	0.00
32	Benzo(a)anthracene	1.398	1.258	10.0	112	0.00
33	Chrysene	1.512	1.452	4.0	115	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.474	14.3	112	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.795	1.8	128	0.00
37	Benzo(b)fluoranthene	1.725	1.588	7.9	114	0.00
38	Benzo(k)fluoranthene	1.736	1.645	5.2	122	0.00
39 C	Benzo(a)pyrene	1.364	1.234	9.5	118	0.00
40	Dibenzo(a,h)anthracene	1.427	1.407	1.4	127	0.00
41	Benzo(g,h,i)perylene	1.499	1.464	2.3	123	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 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	108	0.00
2	1,4-Dioxane	0.400	0.413	-3.2	110	0.00
3	n-Nitrosodimethylamine	0.400	0.393	1.8	111	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	104	0.00
5 S	Phenol-d6	0.400	0.359	10.3	104	0.00
6	bis(2-Chloroethyl)ether	0.400	0.383	4.3	106	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.377	5.8	106	0.00
9	Naphthalene	0.400	0.384	4.0	108	0.00
10	Hexachlorobutadiene	0.400	0.393	1.8	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	108	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	107	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.400	0.321	19.8	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	108	0.00
16	Acenaphthylene	0.400	0.370	7.5	108	0.00
17	Acenaphthene	0.400	0.375	6.3	108	0.00
18	Fluorene	0.400	0.385	3.8	110	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.373	6.8	100	0.00
21	4-Bromophenyl-phenylether	0.400	0.356	11.0	105	0.00
22	Hexachlorobenzene	0.400	0.386	3.5	111	0.00
23	Atrazine	0.400	0.339	15.3	109	-0.01
24	Pentachlorophenol	0.400	0.333	16.8	109	0.00
25	Phenanthrene	0.400	0.367	8.3	109	0.00
26	Anthracene	0.400	0.352	12.0	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.352	12.0	111	0.00
28	Fluoranthene	0.400	0.359	10.3	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	115	0.00
30	Pyrene	0.400	0.367	8.3	110	0.00
31 S	Terphenyl-d14	0.400	0.364	9.0	111	0.00
32	Benzo(a)anthracene	0.400	0.360	10.0	112	0.00
33	Chrysene	0.400	0.384	4.0	115	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.343	14.2	112	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.393	1.8	128	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	114	0.00
38	Benzo(k)fluoranthene	0.400	0.379	5.3	122	0.00
39 C	Benzo(a)pyrene	0.400	0.362	9.5	118	0.00
40	Dibenzo(a,h)anthracene	0.400	0.394	1.5	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.391	2.3	123	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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/24/2025 18:52
 Lab File ID: BN037881.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	0.497		-10.6	50.0
Fluoranthene-d10	1.006	0.905		-10.0	50.0
2-Fluorophenol	0.913	0.873		-4.4	50.0
Phenol-d6	1.199	1.142		-4.8	50.0
Nitrobenzene-d5	0.305	0.291		-4.6	50.0
2-Fluorobiphenyl	1.638	1.569		-4.2	50.0
2,4,6-Tribromophenol	0.152	0.123		-19.1	50.0
Terphenyl-d14	0.797	0.758		-4.9	50.0
1,4-Dioxane	0.406	0.418		3.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037881.D
 Acq On : 24 Sep 2025 18:52
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Sep 25 11:38:36 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

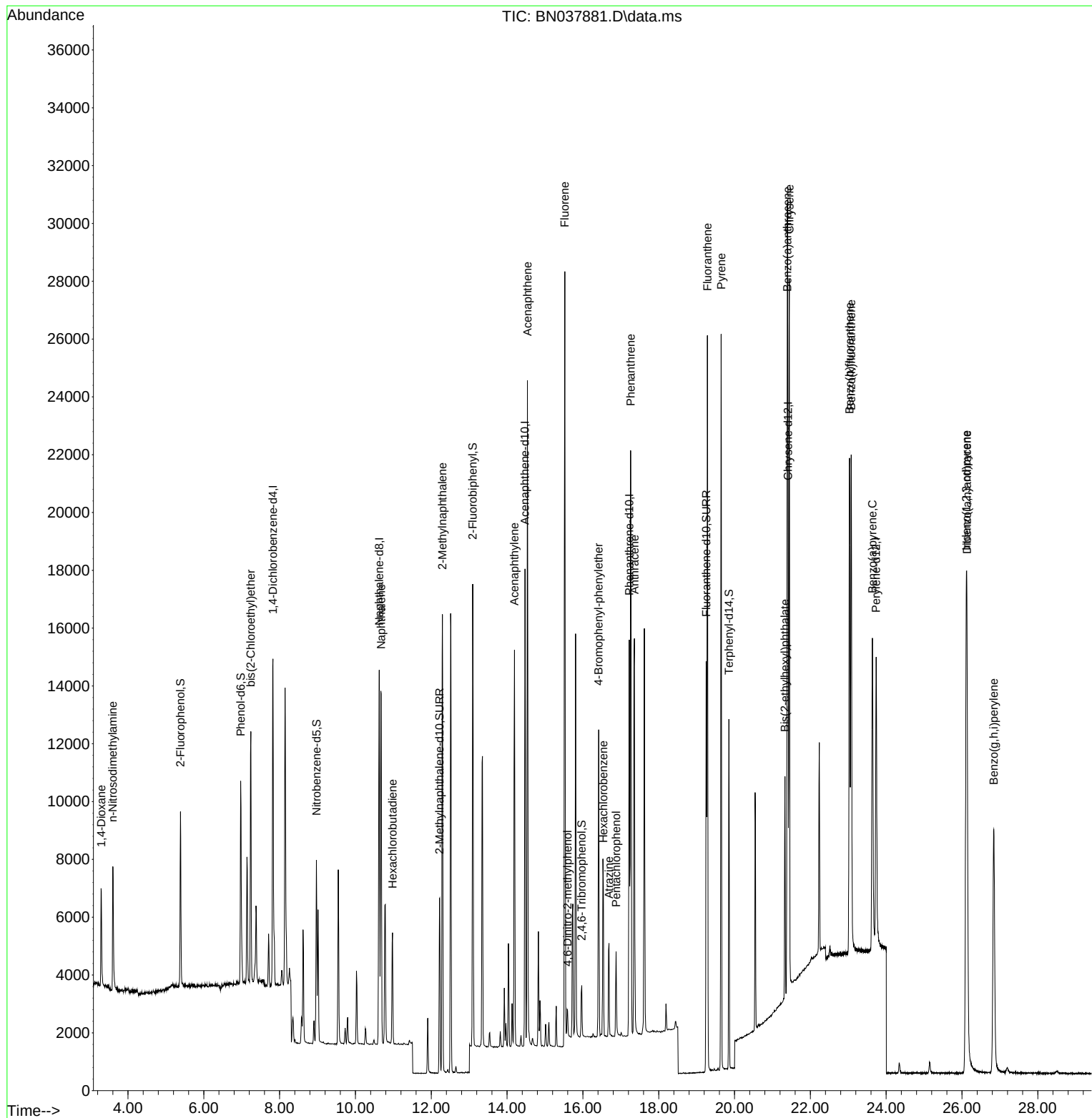
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5658	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16582	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8733	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17039	0.400	ng	0.00
29) Chrysene-d12	21.411	240	14774	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	14018	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4939	0.383	ng	0.00
5) Phenol-d6	6.973	99	6464	0.381	ng	0.00
8) Nitrobenzene-d5	8.971	82	4819	0.381	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8248	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1070	0.323	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	13700	0.383	ng	0.00
27) Fluoranthene-d10	19.252	212	15414	0.360	ng	0.00
31) Terphenyl-d14	19.852	244	11204	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2366	0.412	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.600	42	2881	0.377	ng	# 91
6) bis(2-Chloroethyl)ether	7.240	93	6204	0.394	ng	98
9) Naphthalene	10.680	128	17423	0.381	ng	99
10) Hexachlorobutadiene	10.979	225	3100	0.398	ng	# 99
12) 2-Methylnaphthalene	12.293	142	11103	0.372	ng	99
16) Acenaphthylene	14.195	152	14549	0.367	ng	99
17) Acenaphthene	14.537	154	10482	0.371	ng	100
18) Fluorene	15.522	166	12896	0.377	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	709	0.391	ng	93
21) 4-Bromophenyl-phenylether	16.416	248	3946	0.355	ng	98
22) Hexachlorobenzene	16.540	284	5118	0.380	ng	99
23) Atrazine	16.689	200	2883	0.341	ng	98
24) Pentachlorophenol	16.875	266	1462	0.316	ng	97
25) Phenanthrene	17.260	178	20733	0.370	ng	100
26) Anthracene	17.359	178	17038	0.350	ng	100
28) Fluoranthene	19.285	202	22543	0.365	ng	99
30) Pyrene	19.647	202	22384	0.384	ng	100
32) Benzo(a)anthracene	21.393	228	19039	0.369	ng	99
33) Chrysene	21.447	228	21409	0.383	ng	98
34) Bis(2-ethylhexyl)phtha...	21.331	149	7181	0.352	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.112	276	24080	0.376	ng	98
37) Benzo(b)fluoranthene	23.034	252	22276	0.368	ng	99
38) Benzo(k)fluoranthene	23.078	252	23621	0.388	ng	100
39) Benzo(a)pyrene	23.636	252	17488	0.366	ng	98
40) Dibenzo(a,h)anthracene	26.130	278	18802	0.376	ng	99
41) Benzo(g,h,i)perylene	26.838	276	18990	0.361	ng	100

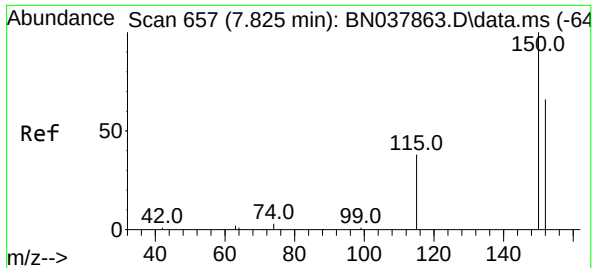
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

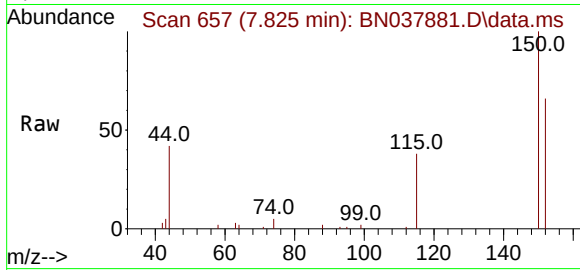
Quant Time: Sep 25 11:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



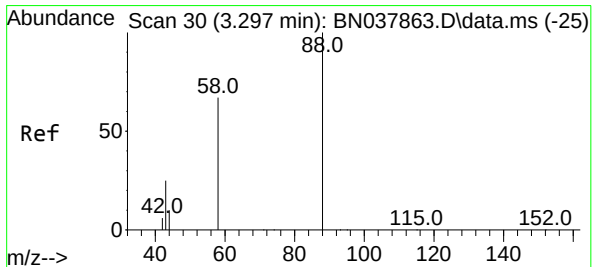
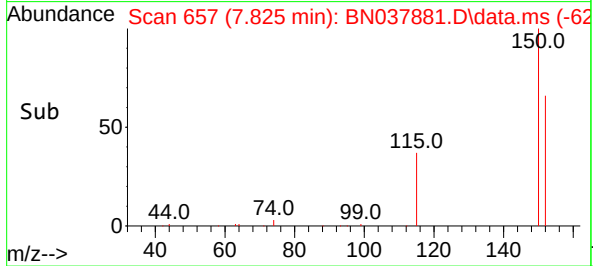
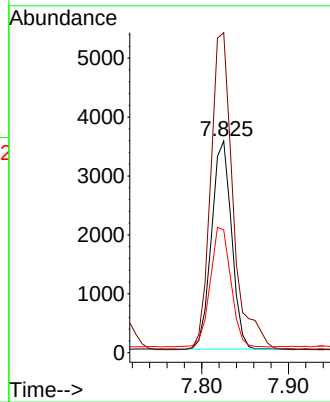


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

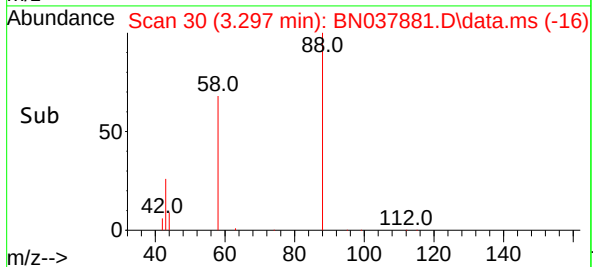
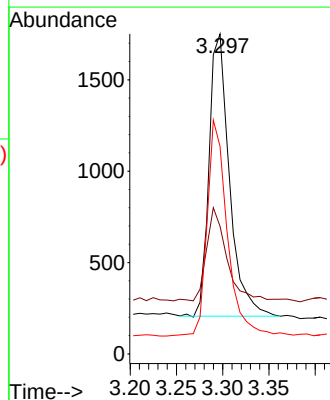
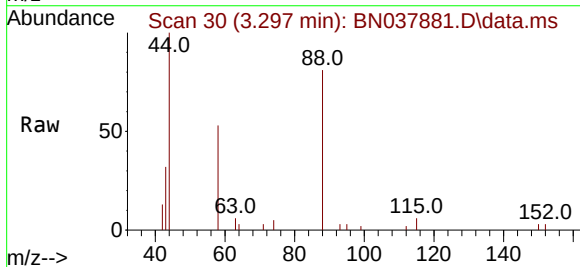


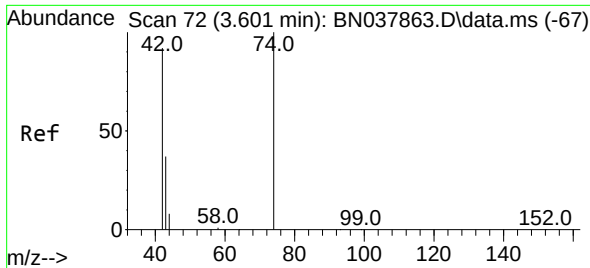
Tgt Ion:152 Resp: 5658
Ion Ratio Lower Upper
152 100
150 151.1 121.0 181.4
115 57.9 47.4 71.0



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion: 88 Resp: 2366
Ion Ratio Lower Upper
88 100
43 32.8 26.6 39.8
58 75.9 58.9 88.3

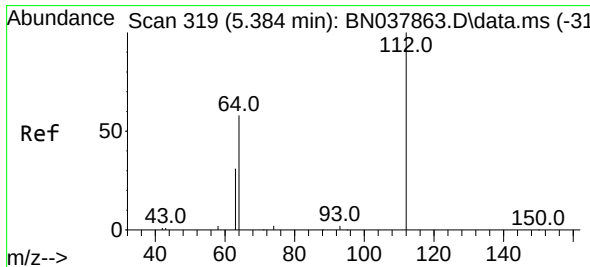
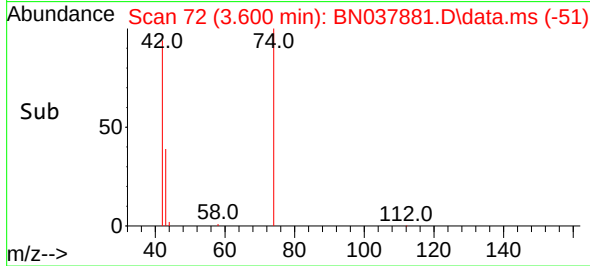
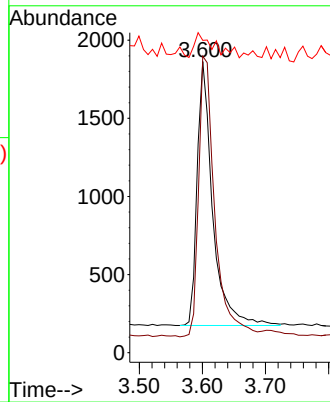
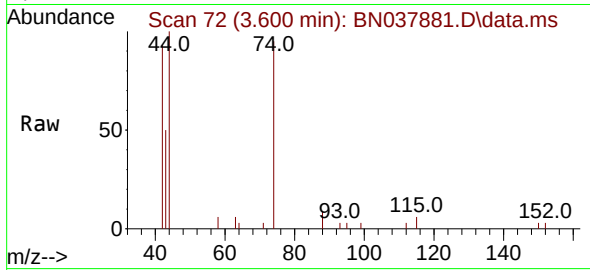




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

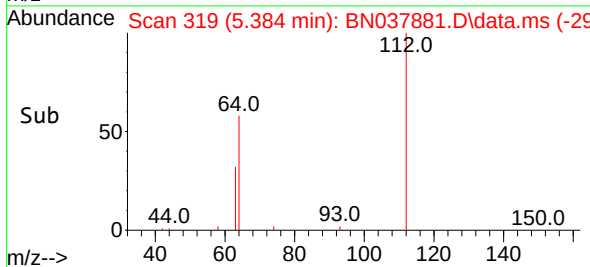
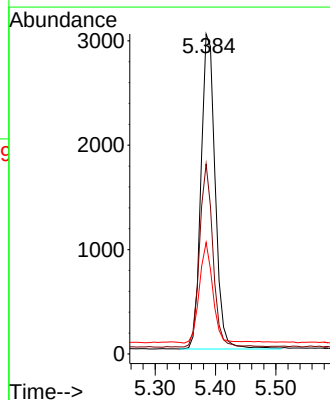
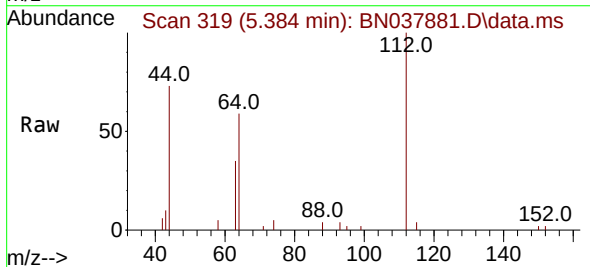
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

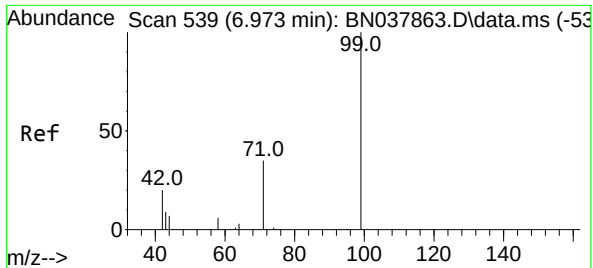
Tgt Ion: 42 Resp: 2881
Ion Ratio Lower Upper
42 100
74 111.6 93.4 140.0
44 13.0 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion: 112 Resp: 4939
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 29.9 24.9 37.3

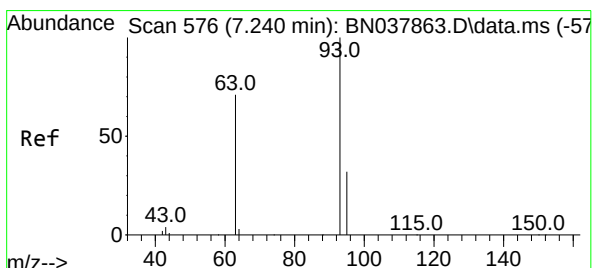
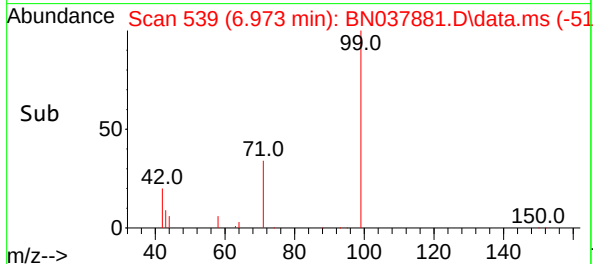
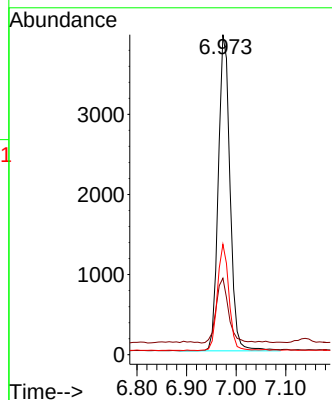
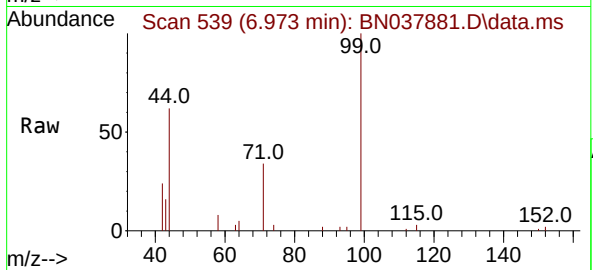




#5
Phenol-d6
Concen: 0.381 ng
RT: 6.973 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

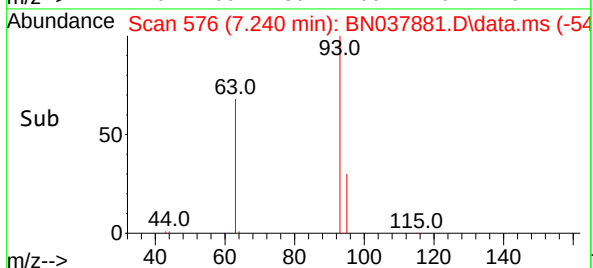
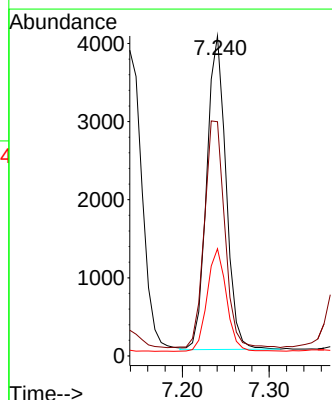
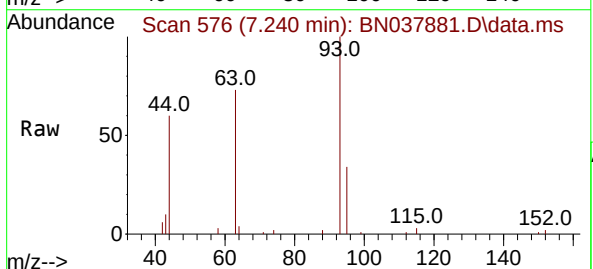
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

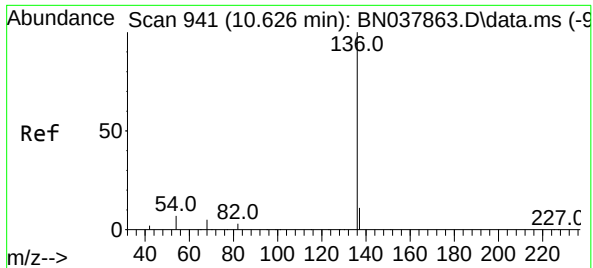
Tgt Ion:	99	Resp:	6464
Ion	Ratio	Lower	Upper
99	100		
42	21.7	17.2	25.8
71	32.9	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	93	Resp:	6204
Ion	Ratio	Lower	Upper
93	100		
63	76.7	60.1	90.1
95	32.7	25.4	38.2

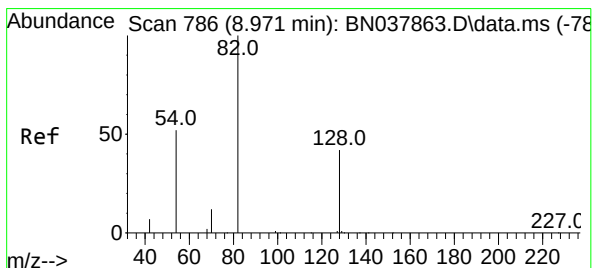
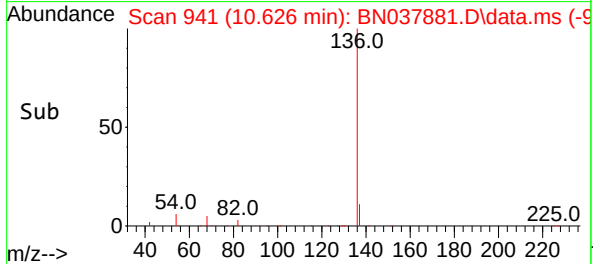
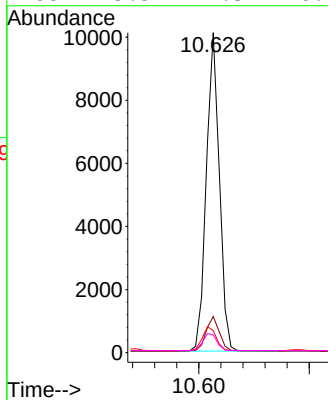
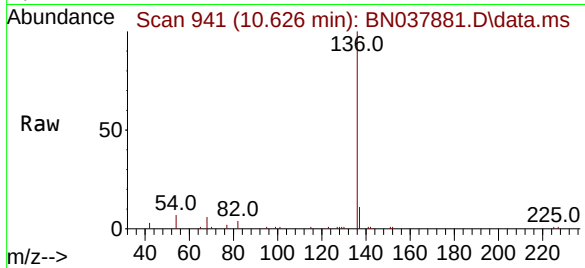




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

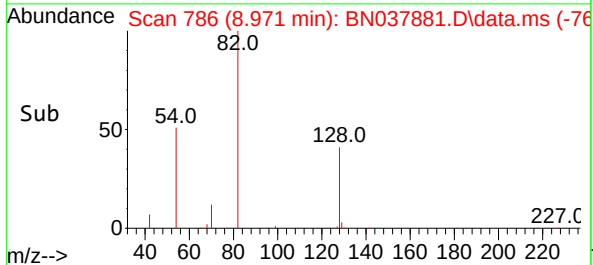
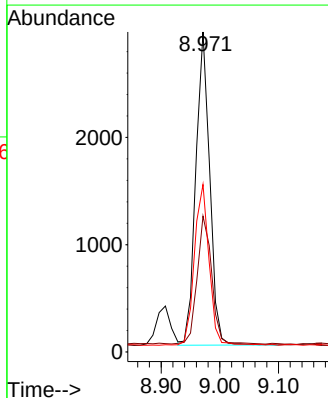
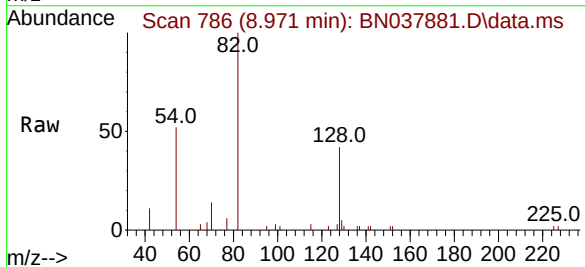
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

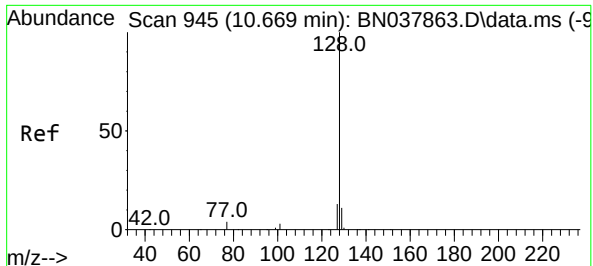
Tgt Ion:	136	Resp:	16582
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.9	5.8	8.8
68	5.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	82	Resp:	4819
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.8	52.2
54	52.3	42.2	63.2

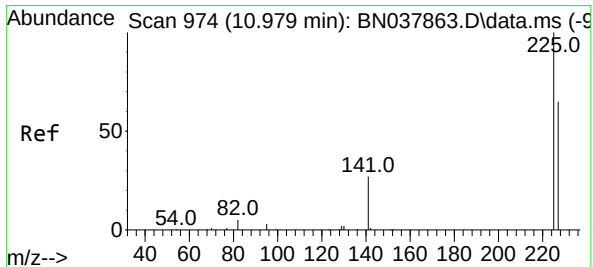
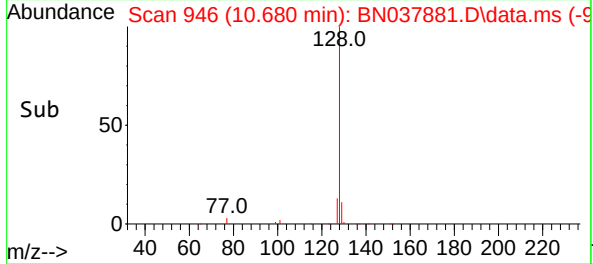
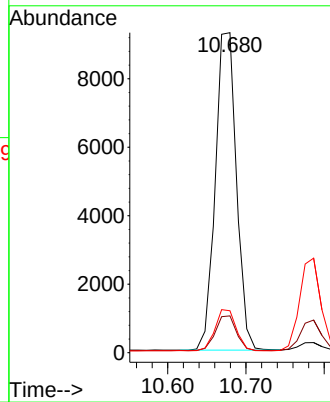
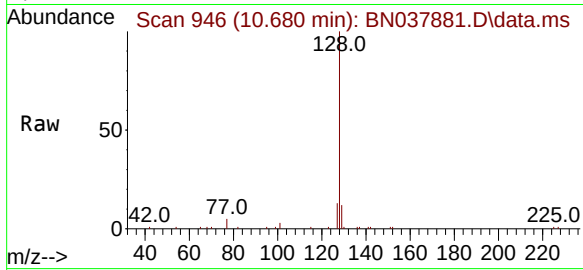




#9
Naphthalene
Concen: 0.381 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

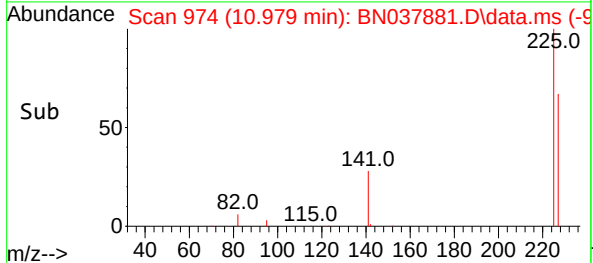
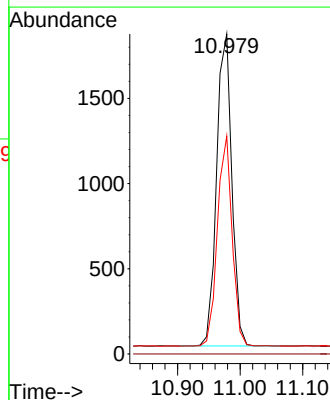
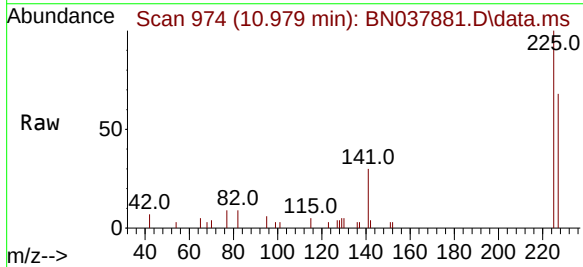
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

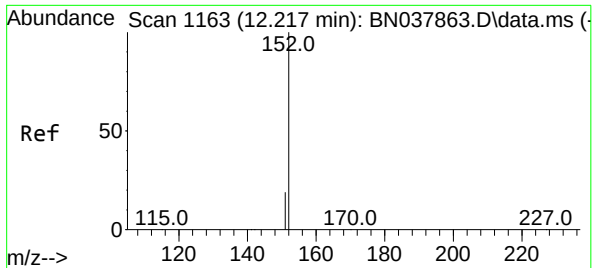
Tgt Ion:	128	Resp:	17423
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.1	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	225	Resp:	3100
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.4	77.2

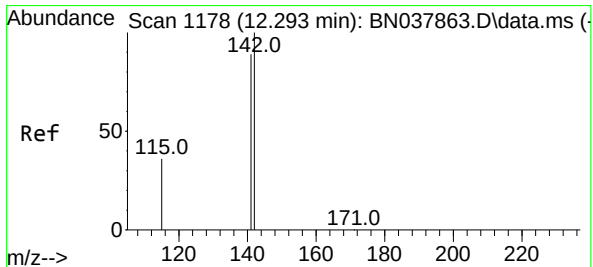
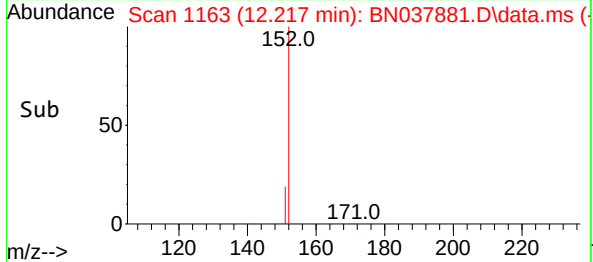
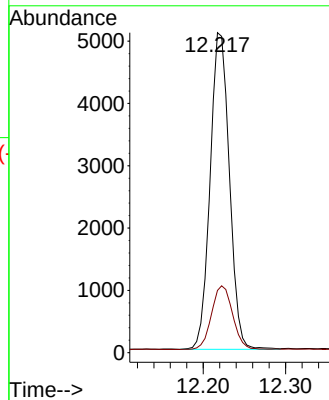
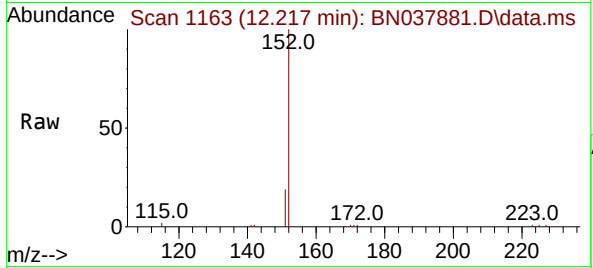




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

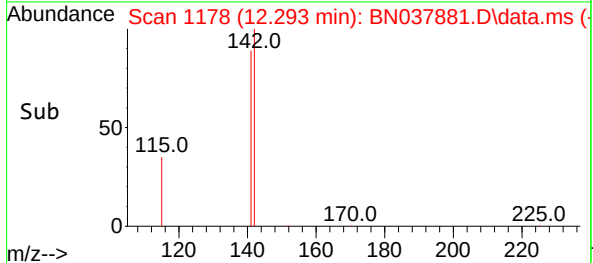
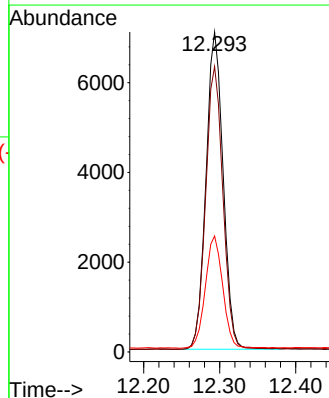
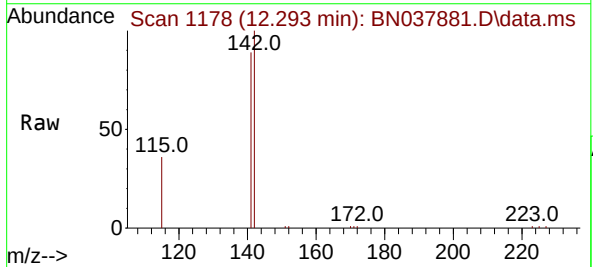
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

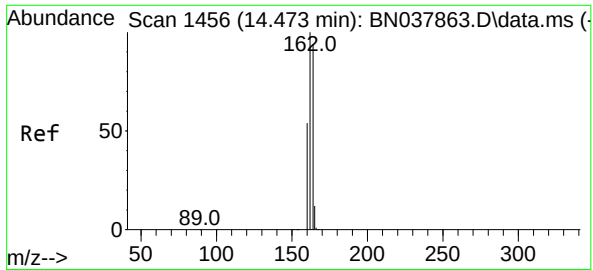
Tgt Ion:152 Resp: 8248
Ion Ratio Lower Upper
152 100
151 22.1 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:142 Resp: 11103
Ion Ratio Lower Upper
142 100
141 89.2 71.2 106.8
115 36.2 29.7 44.5

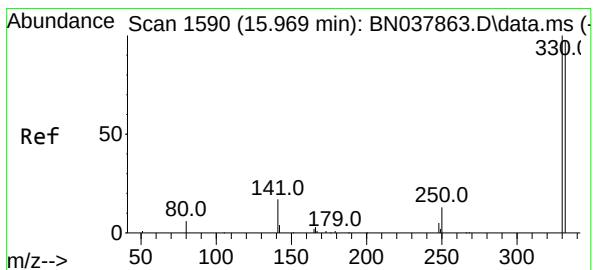
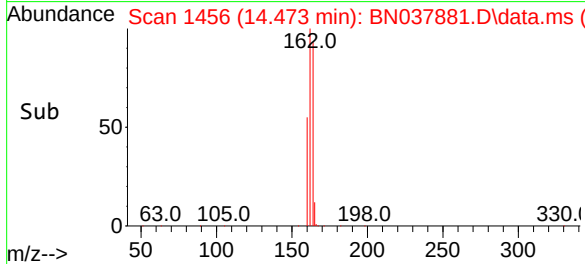
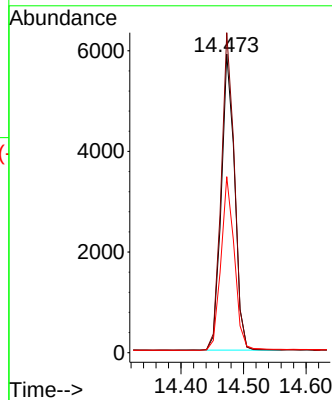
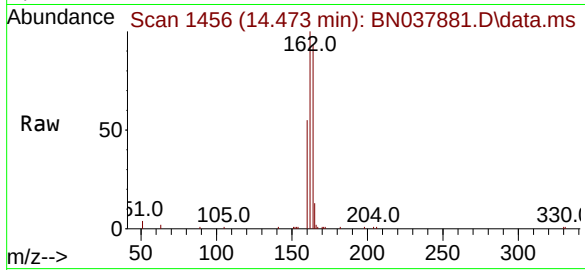




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

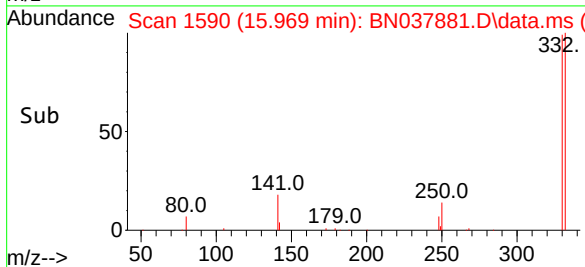
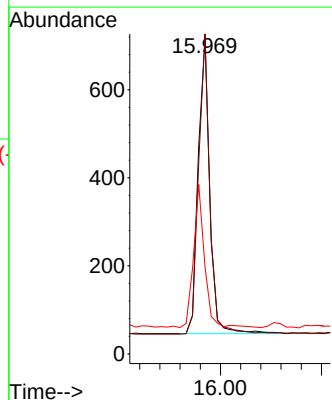
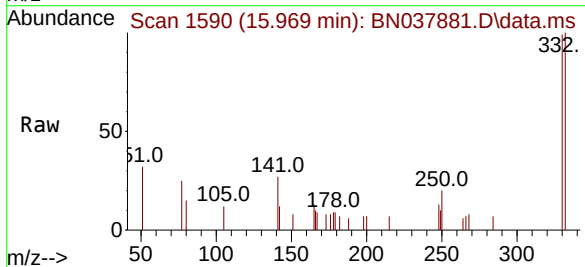
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

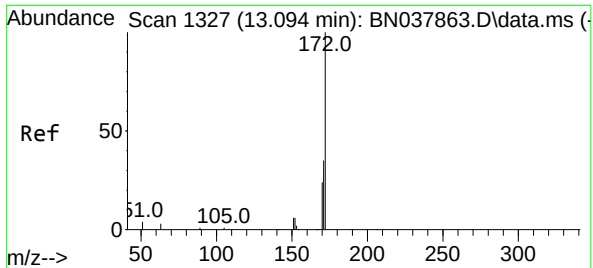
Tgt Ion:164 Resp: 8733
Ion Ratio Lower Upper
164 100
162 107.1 84.8 127.2
160 58.9 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:330 Resp: 1070
Ion Ratio Lower Upper
330 100
332 99.2 77.2 115.8
141 46.0 37.2 55.8

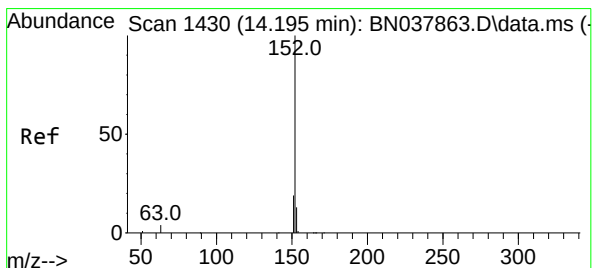
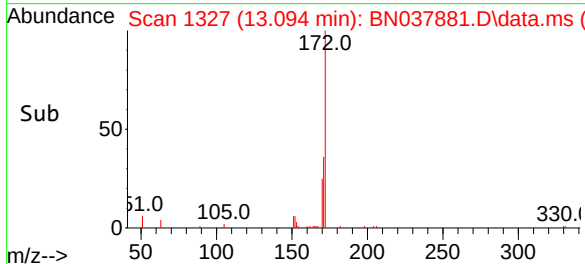
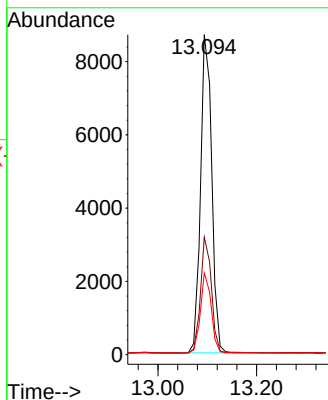
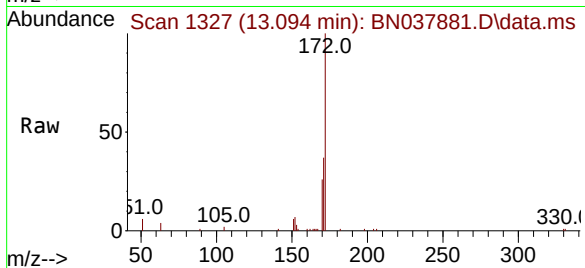




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 13.094 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

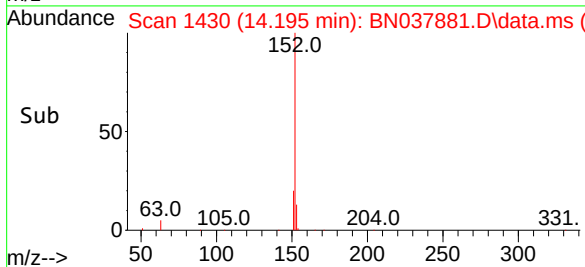
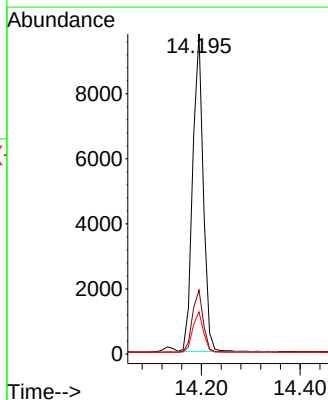
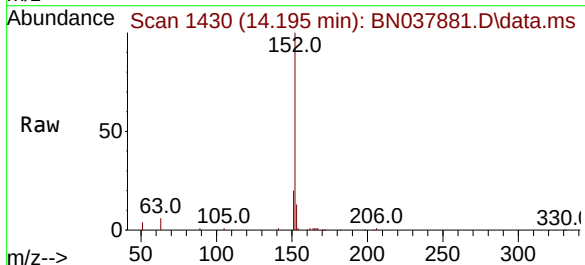
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

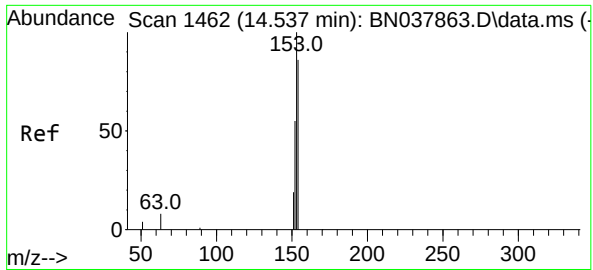
Tgt Ion:	172	Resp:	13700
Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.6	43.0
170	25.5	19.7	29.5



#16
Acenaphthylene
Concen: 0.367 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	152	Resp:	14549
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	12.7	10.5	15.7

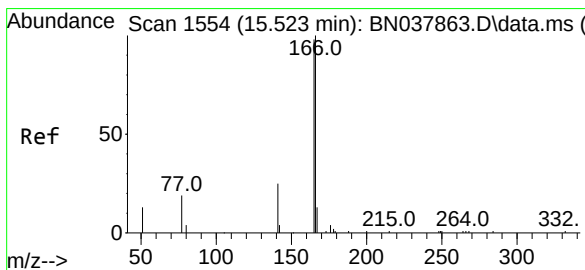
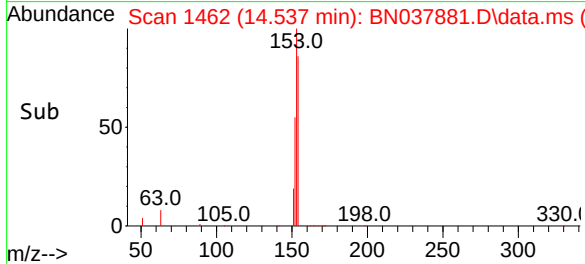
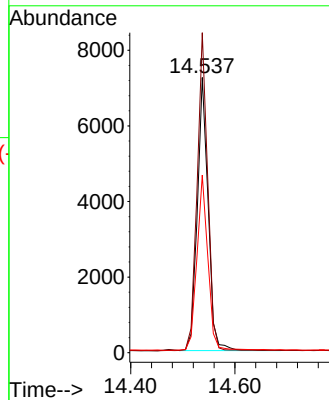
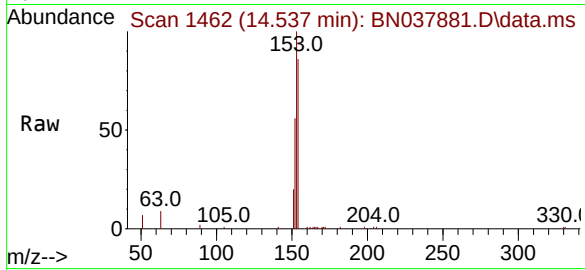




#17
Acenaphthene
Concen: 0.371 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

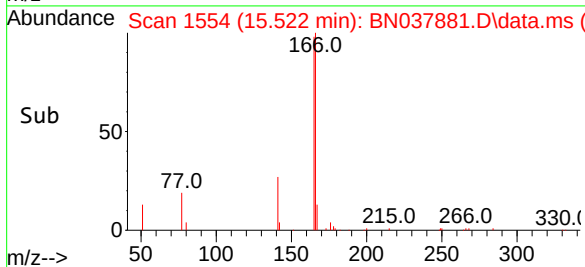
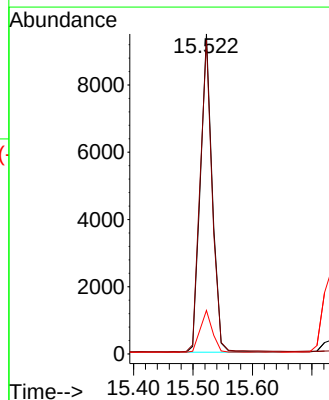
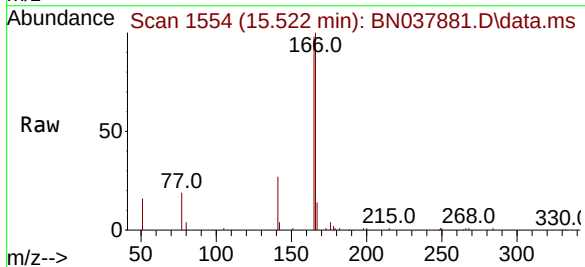
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

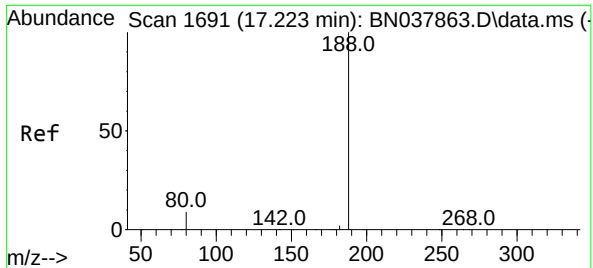
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.5	135.7
152	64.9	51.8	77.8



#18
Fluorene
Concen: 0.377 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.0	118.4
167	13.3	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: BN037881.D

Acq: 24 Sep 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

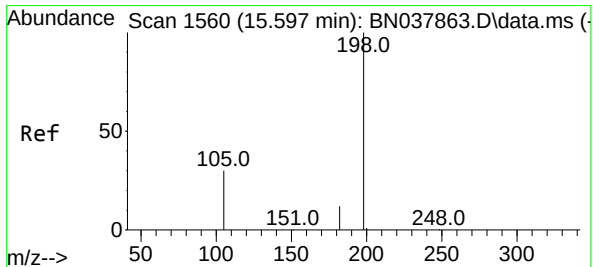
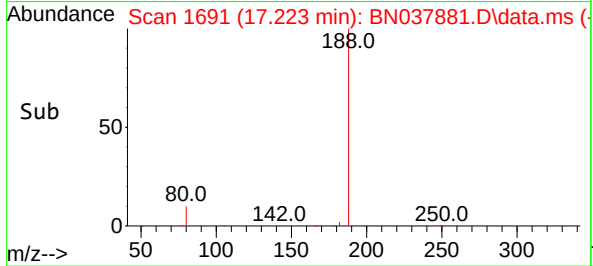
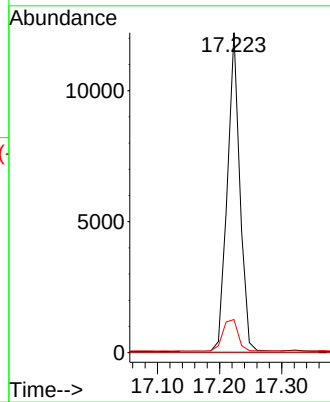
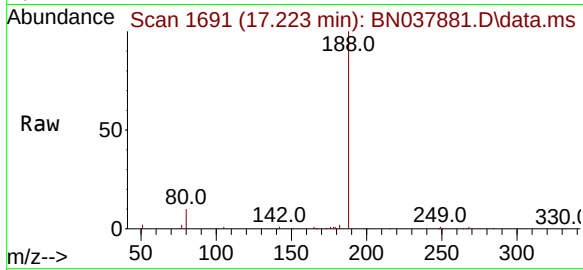
Tgt Ion:188 Resp: 17039

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.4 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.391 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

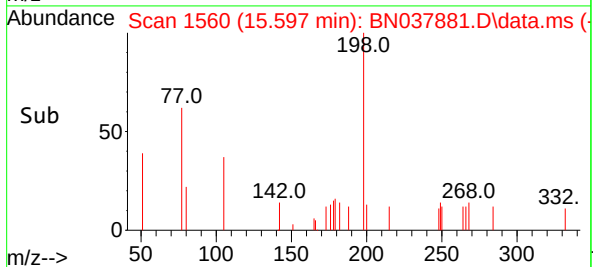
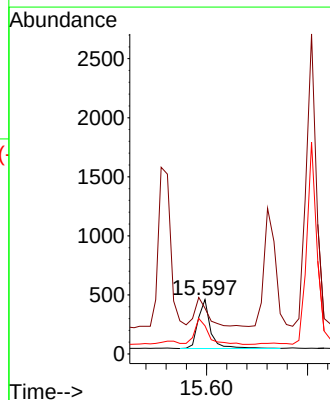
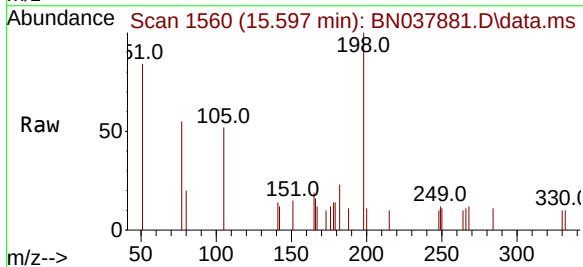
Tgt Ion:198 Resp: 709

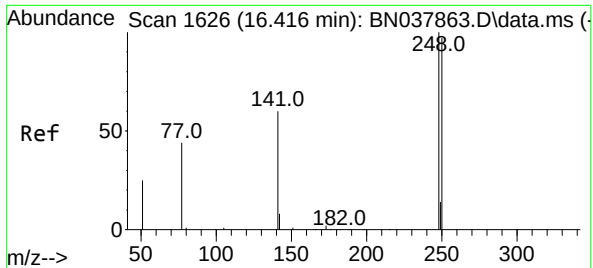
Ion Ratio Lower Upper

198 100

51 83.9 59.1 88.7

105 51.8 41.3 61.9

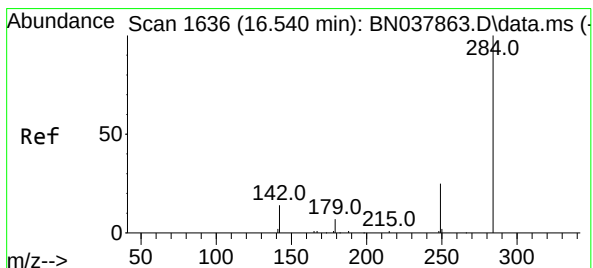
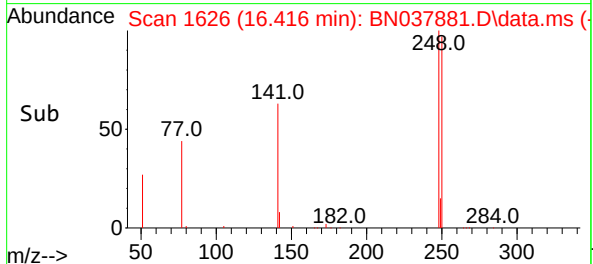
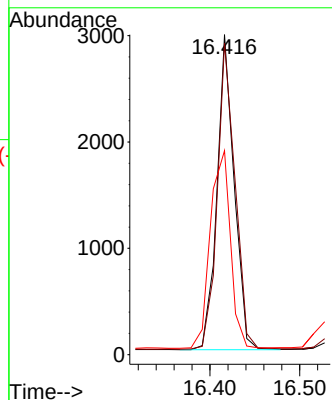
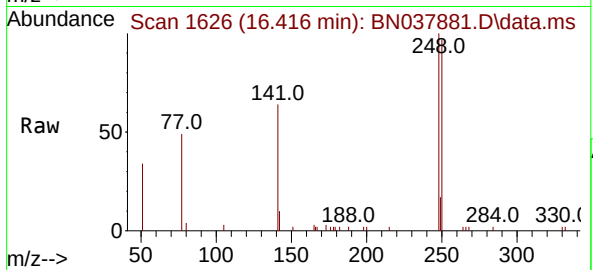




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

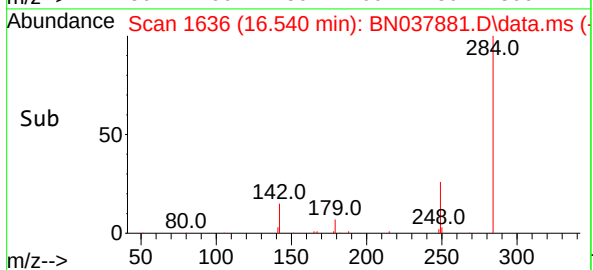
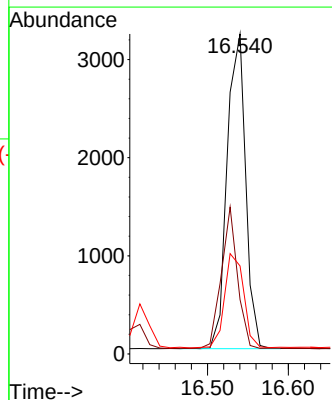
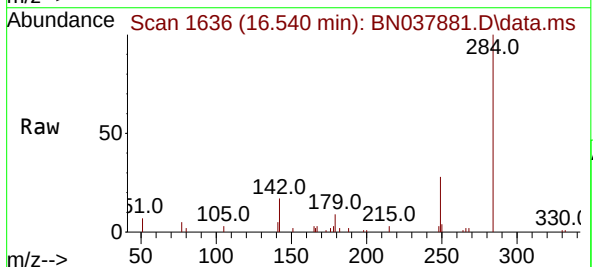
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

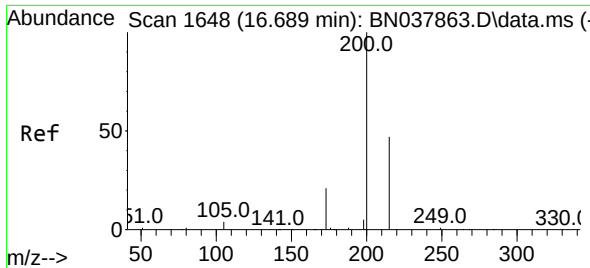
Tgt Ion:	248	Resp:	3946
Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.6	116.4
141	63.7	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	284	Resp:	5118
Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.9	23.9	35.9

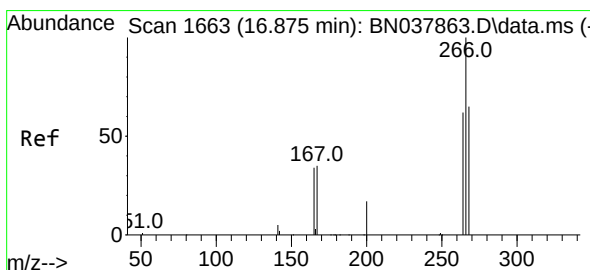
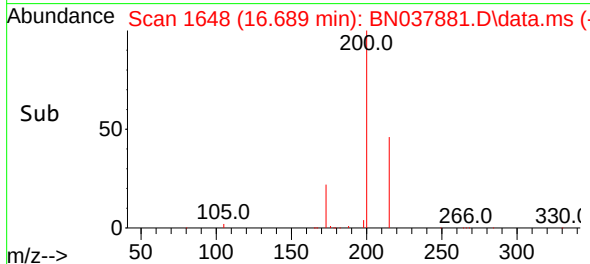
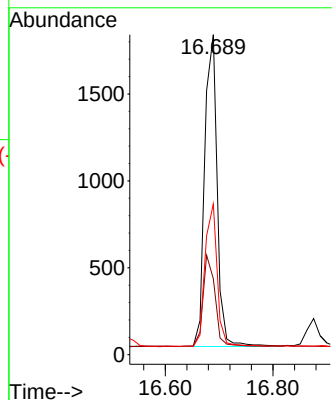
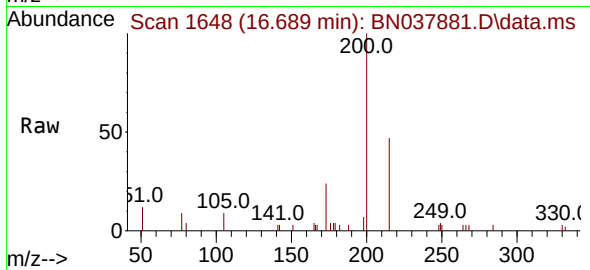




#23
Atrazine
Concen: 0.341 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

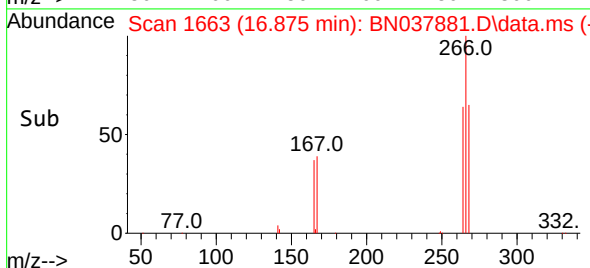
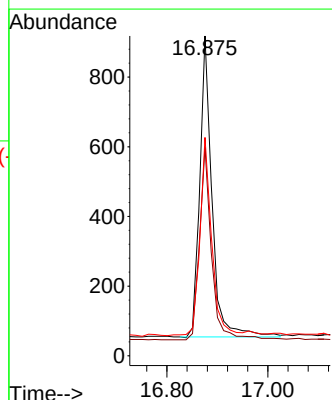
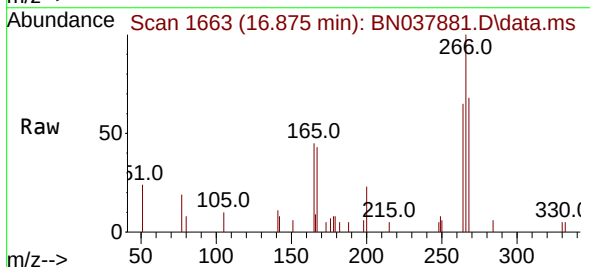
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

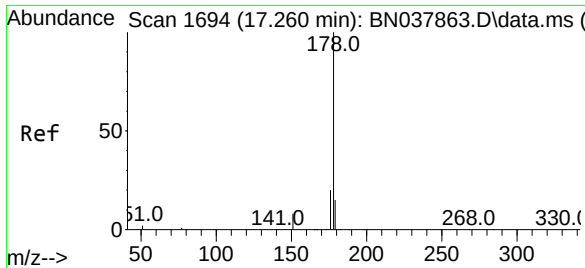
Tgt Ion	200	Resp:	2883
Ion Ratio	Lower	Upper	
200	100		
173	23.7	18.3	27.5
215	47.1	38.6	58.0



#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion	266	Resp:	1462
Ion Ratio	Lower	Upper	
266	100		
264	63.0	50.9	76.3
268	63.3	54.3	81.5

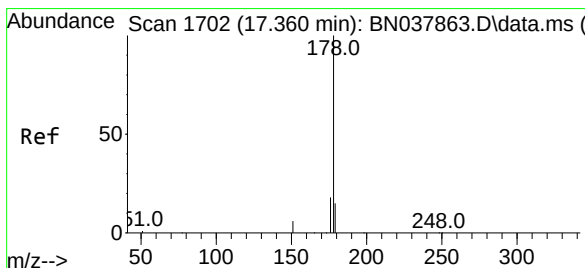
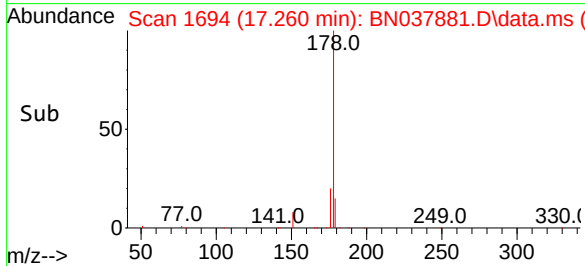
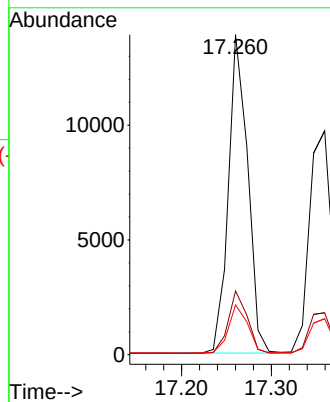
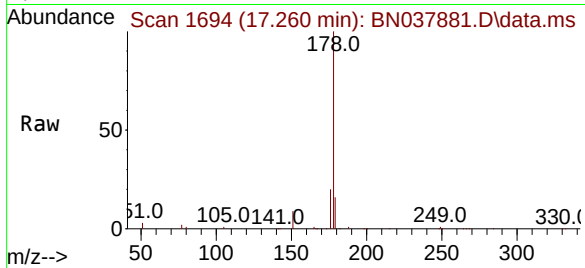




#25
Phenanthrene
Concen: 0.370 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

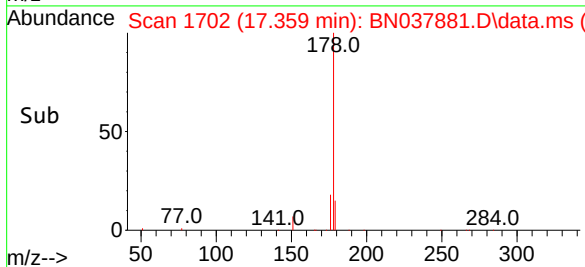
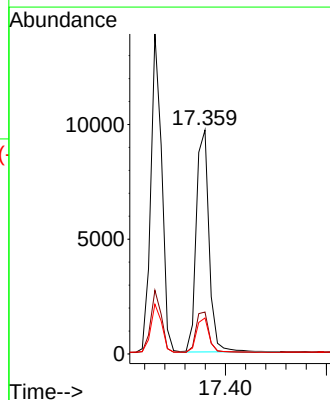
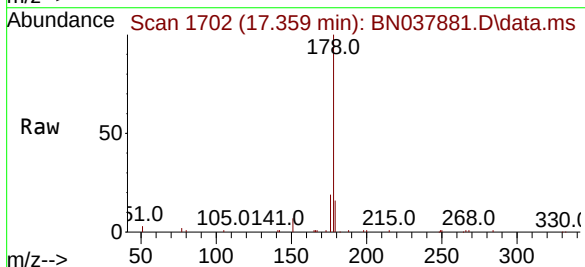
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

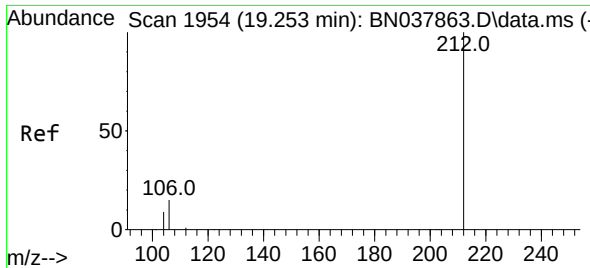
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.2	12.3	18.5



#26
Anthracene
Concen: 0.350 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

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





#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

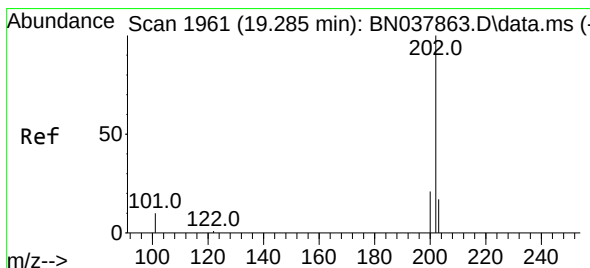
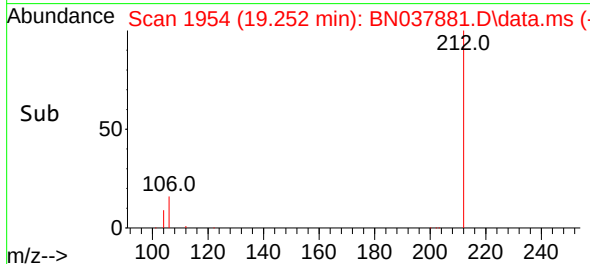
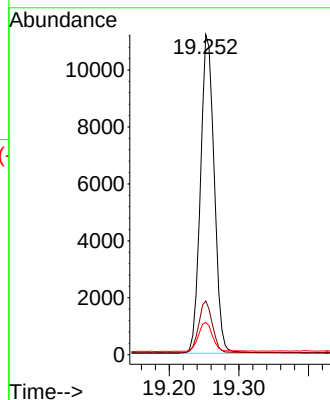
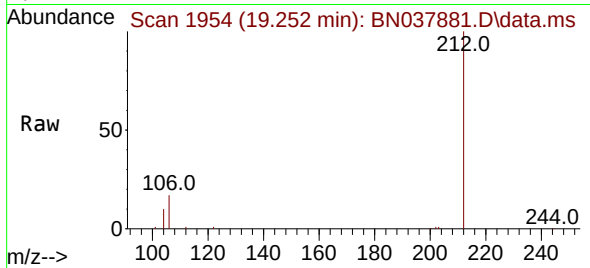
Tgt Ion:212 Resp: 15414

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.4 7.4 11.0



#28

Fluoranthene

Concen: 0.365 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

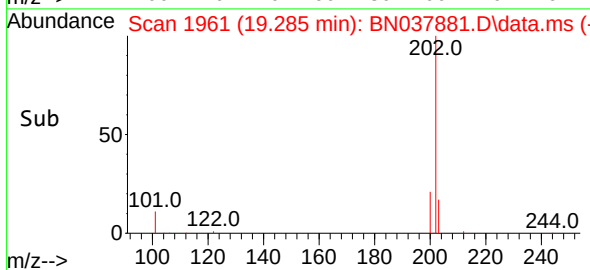
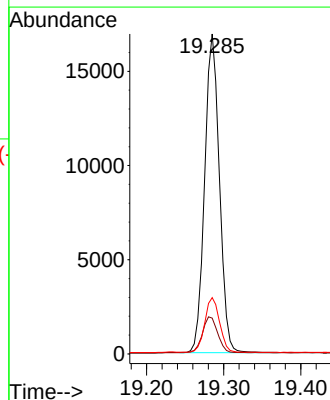
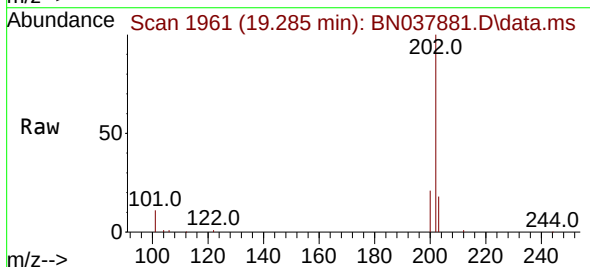
Tgt Ion:202 Resp: 22543

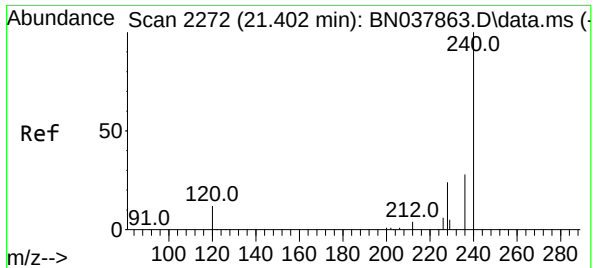
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.2 13.6 20.4

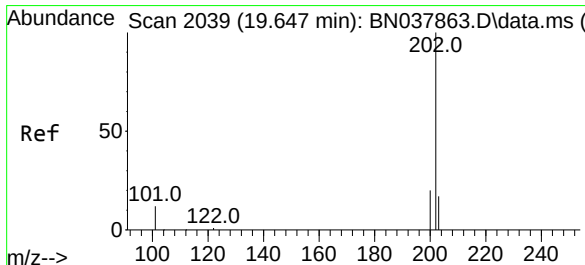
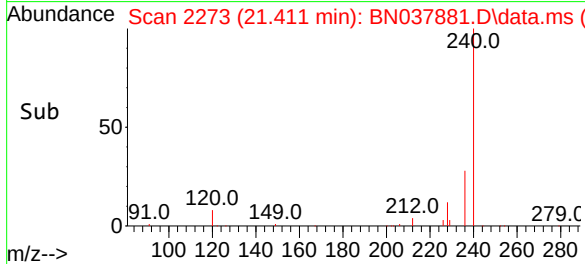
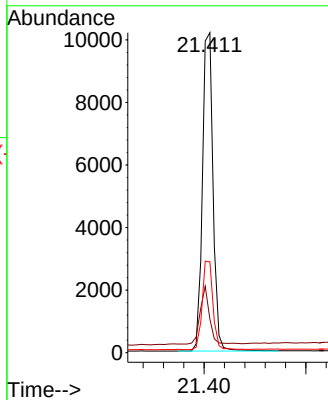
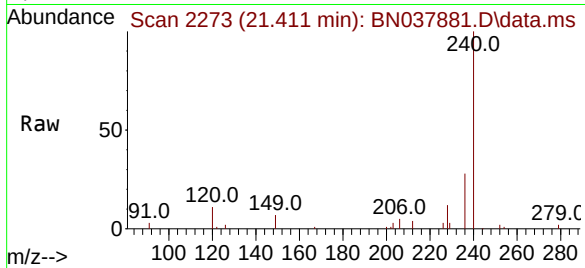




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

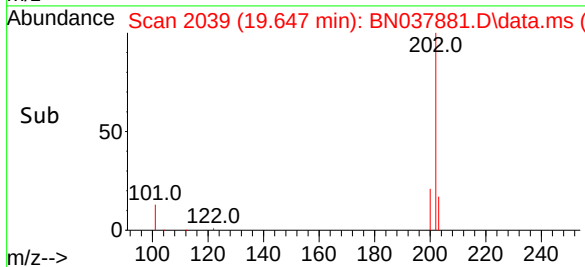
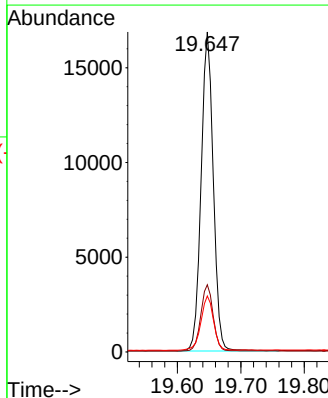
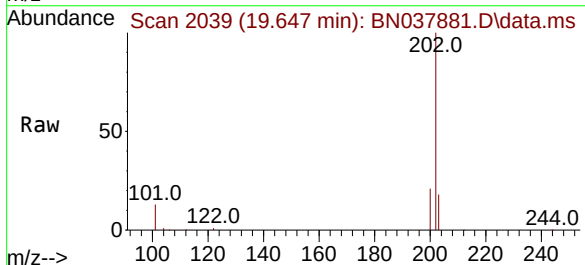
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

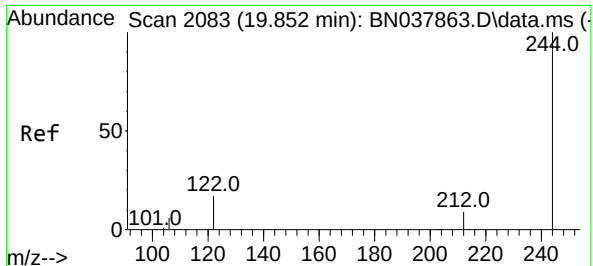
Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.5	11.4	17.2#
236	28.4	23.0	34.6



#30
Pyrene
Concen: 0.384 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4

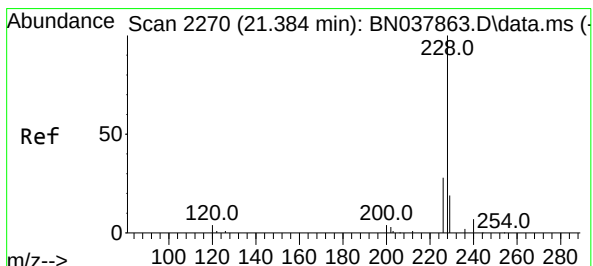
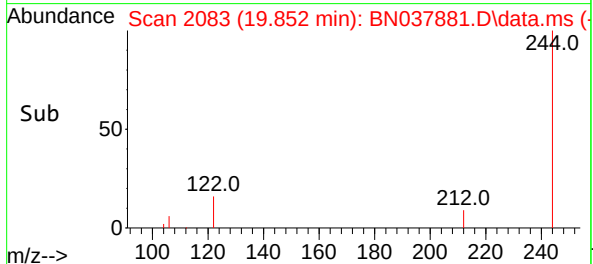
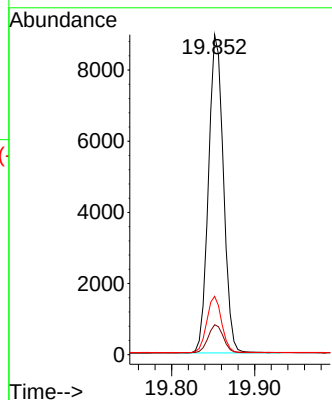
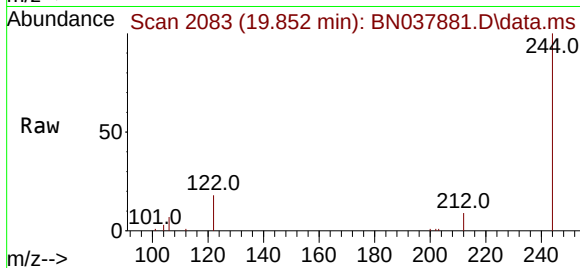




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

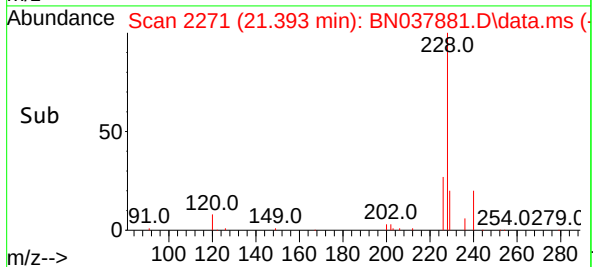
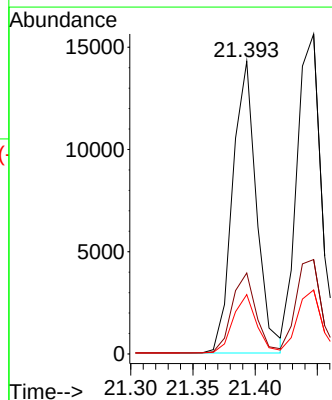
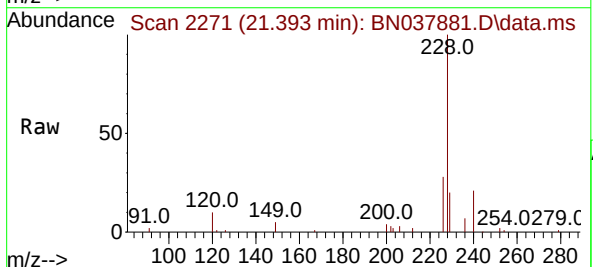
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

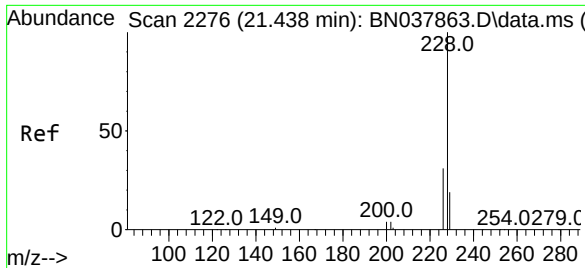
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	18.2	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	20.3	15.6	23.4

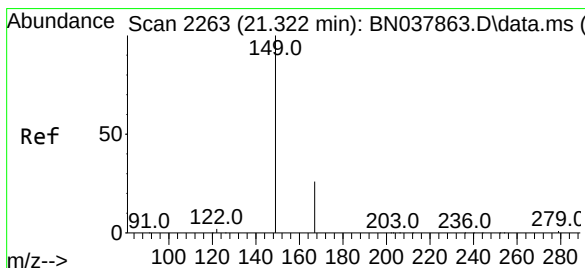
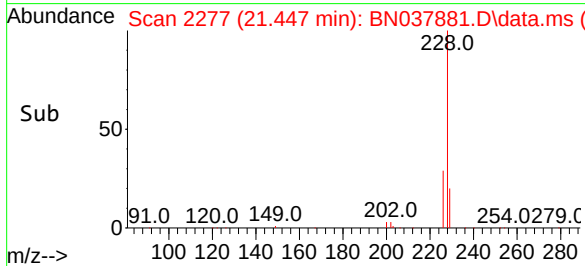
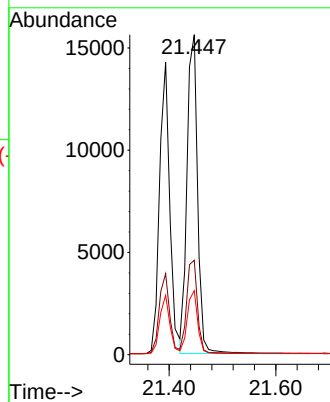
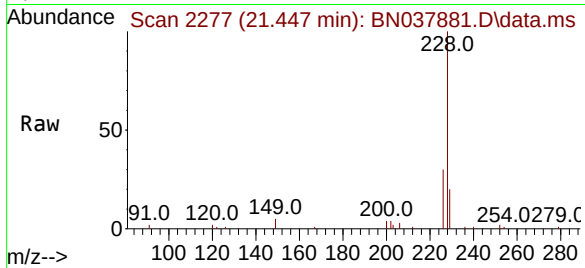




#33
Chrysene
Concen: 0.383 ng
RT: 21.447 min Scan# 21409
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

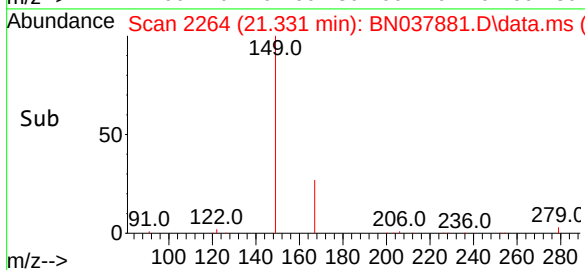
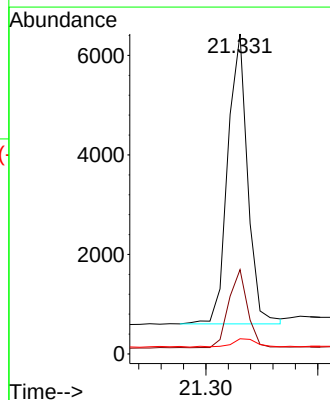
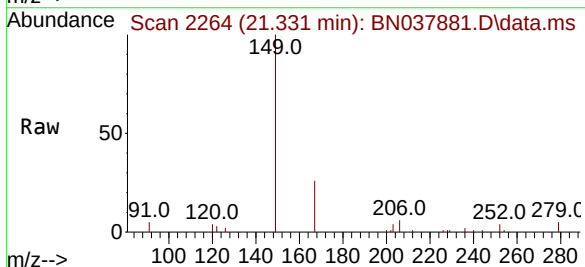
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

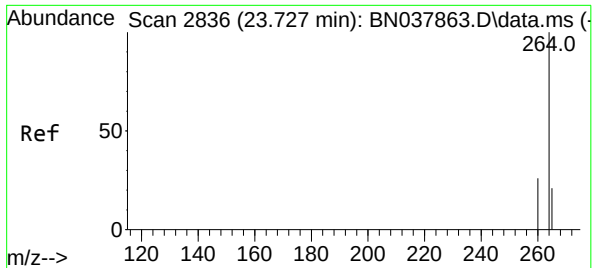
Tgt Ion:	228	Resp:	21409
Ion Ratio	Lower	Upper	
228	100		
226	29.5	24.6	37.0
229	20.0	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:	149	Resp:	7181
Ion Ratio	Lower	Upper	
149	100		
167	25.8	20.4	30.6
279	3.7	2.4	3.6#

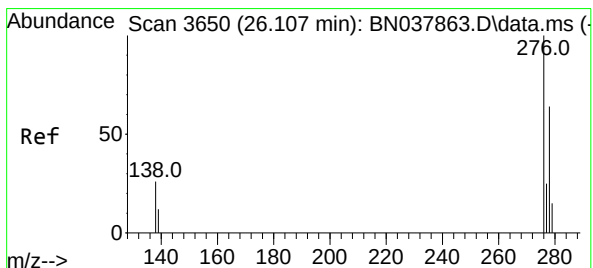
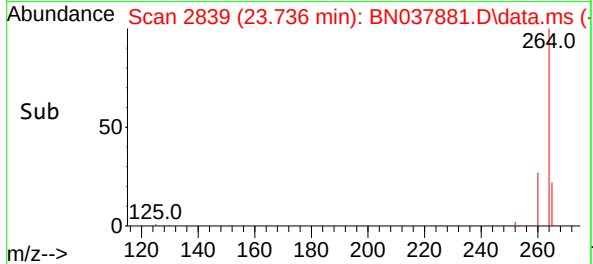
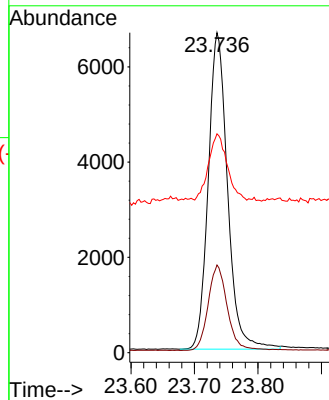
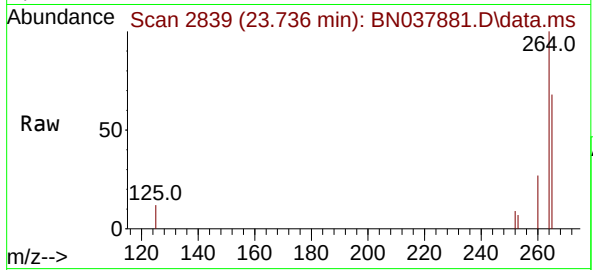




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

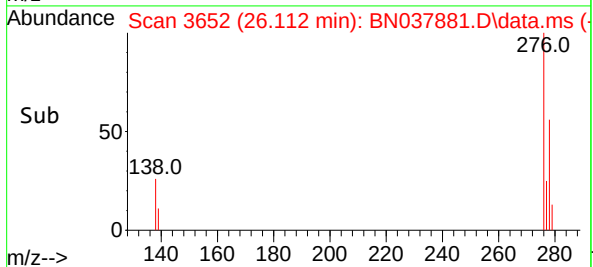
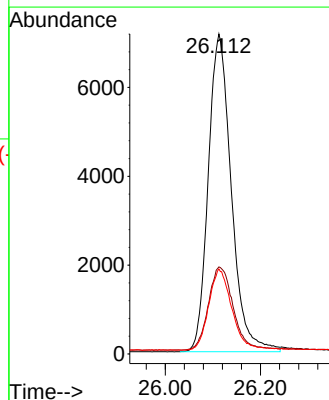
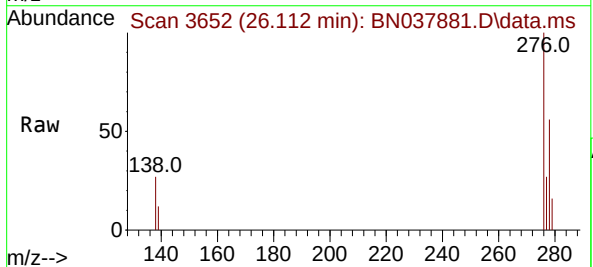
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

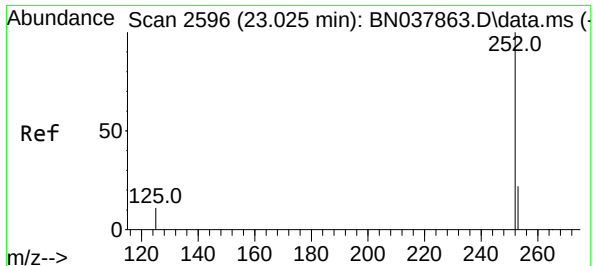
Tgt Ion:264 Resp: 14018
Ion Ratio Lower Upper
264 100
260 27.4 21.5 32.3
265 68.4 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 26.112 min Scan# 3652
Delta R.T. 0.006 min
Lab File: BN037881.D
Acq: 24 Sep 2025 18:52

Tgt Ion:276 Resp: 24080
Ion Ratio Lower Upper
276 100
138 28.1 21.4 32.0
277 25.6 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.368 ng

RT: 23.034 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

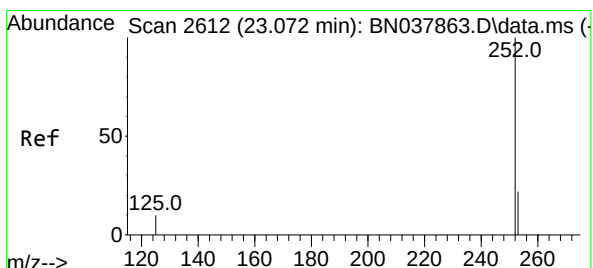
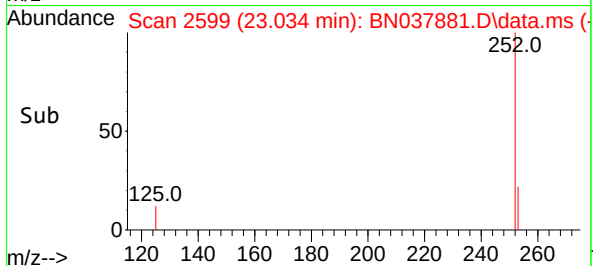
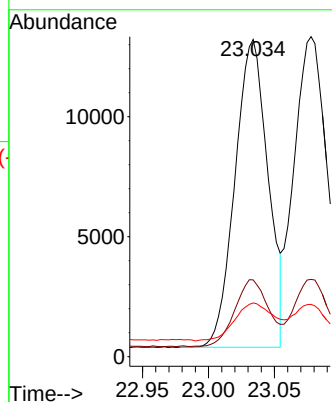
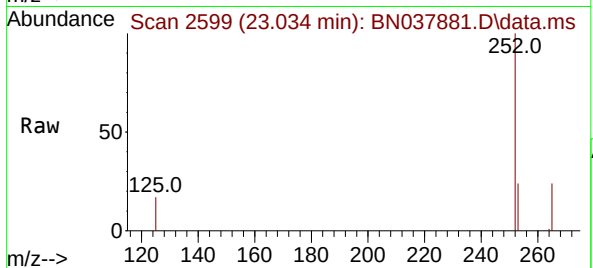
Tgt Ion:252 Resp: 22276

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 17.0 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

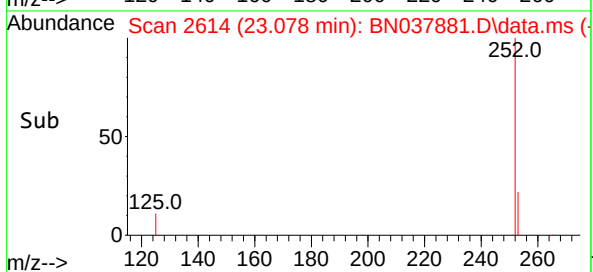
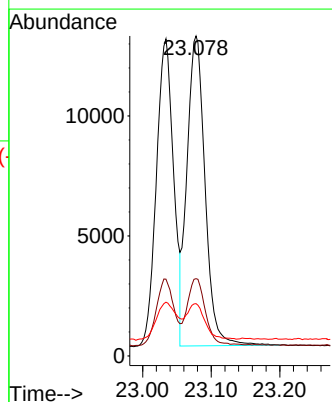
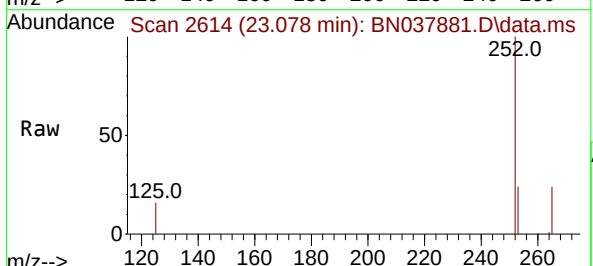
Tgt Ion:252 Resp: 23621

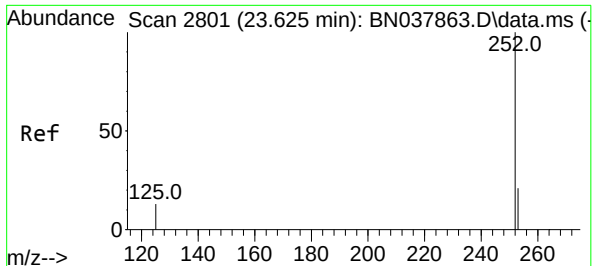
Ion Ratio Lower Upper

252 100

253 24.2 19.5 29.3

125 16.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.636 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

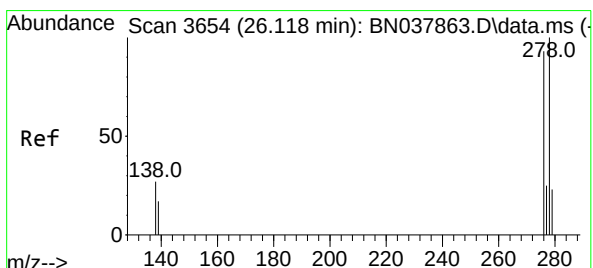
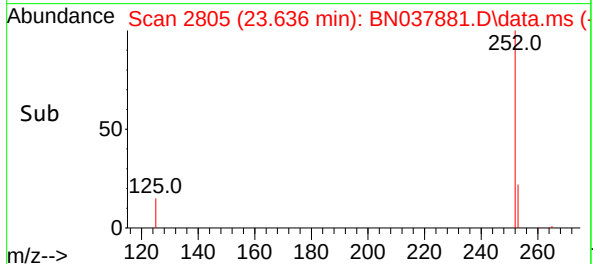
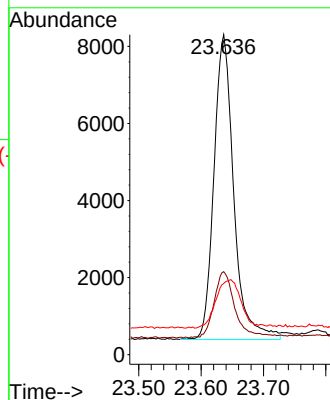
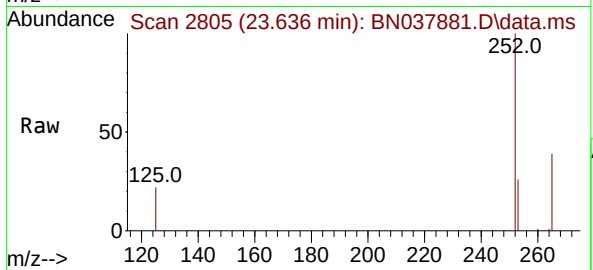
Tgt Ion:252 Resp: 17488

Ion Ratio Lower Upper

252 100

253 25.9 20.6 30.8

125 22.3 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 26.130 min Scan# 3658

Delta R.T. 0.012 min

Lab File: BN037881.D

Acq: 24 Sep 2025 18:52

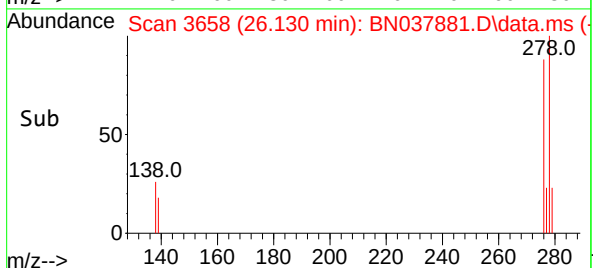
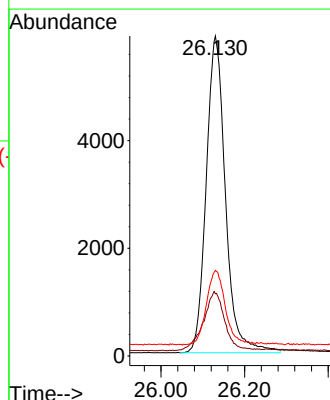
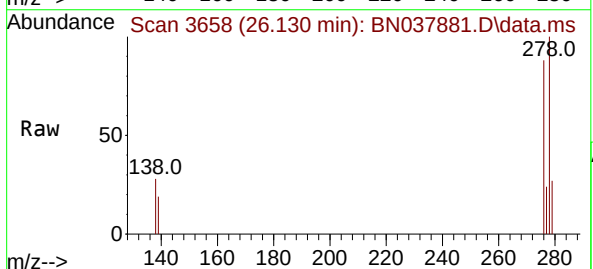
Tgt Ion:278 Resp: 18802

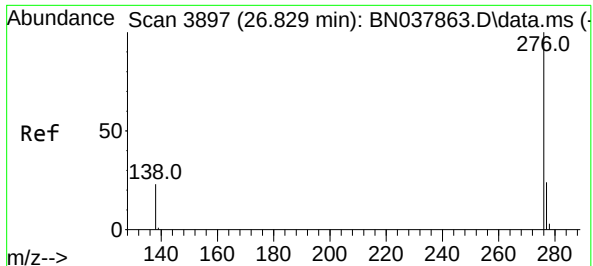
Ion Ratio Lower Upper

278 100

139 19.5 15.4 23.2

279 26.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.361 ng

RT: 26.838 min Scan# 3900

Delta R.T. 0.009 min

Lab File: BN037881.D

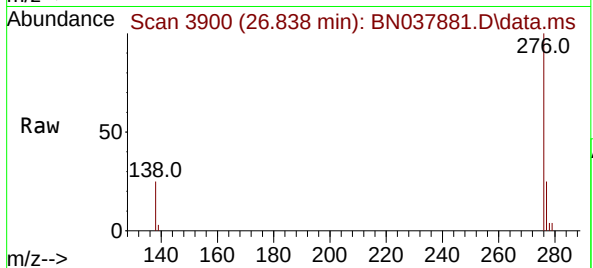
Acq: 24 Sep 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



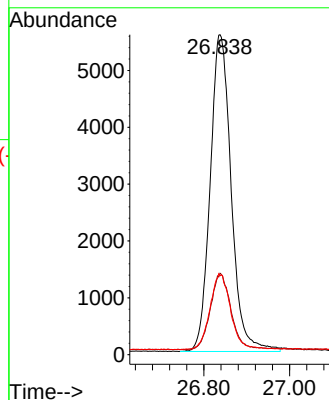
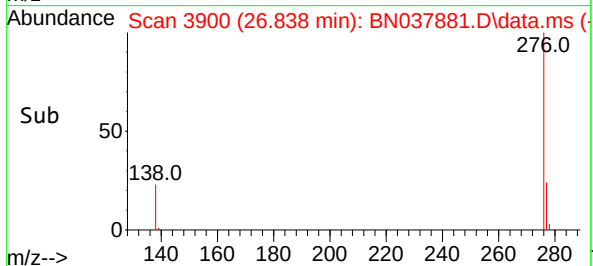
Tgt Ion:276 Resp: 18990

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.4

138 24.6 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 11:38:36 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	101	0.00
2	1,4-Dioxane	0.406	0.418	-3.0	103	0.00
3	n-Nitrosodimethylamine	0.540	0.509	5.7	100	0.00
4 S	2-Fluorophenol	0.913	0.873	4.4	103	0.00
5 S	Phenol-d6	1.199	1.142	4.8	104	0.00
6	bis(2-Chloroethyl)ether	1.113	1.097	1.4	103	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
8 S	Nitrobenzene-d5	0.305	0.291	4.6	106	0.00
9	Naphthalene	1.102	1.051	4.6	105	0.01
10	Hexachlorobutadiene	0.188	0.187	0.5	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.497	10.6	105	0.00
12	2-Methylnaphthalene	0.720	0.670	6.9	105	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.152	0.123	19.1	96	0.00
15 S	2-Fluorobiphenyl	1.638	1.569	4.2	107	0.00
16	Acenaphthylene	1.816	1.666	8.3	106	0.00
17	Acenaphthene	1.294	1.200	7.3	106	0.00
18	Fluorene	1.565	1.477	5.6	108	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.042	26.3#	102	0.00
21	4-Bromophenyl-phenylether	0.261	0.232	11.1	101	0.00
22	Hexachlorobenzene	0.316	0.300	5.1	105	0.00
23	Atrazine	0.199	0.169	15.1	105	0.00
24	Pentachlorophenol	0.108	0.086	20.4	100	0.00
25	Phenanthrene	1.316	1.217	7.5	106	0.00
26	Anthracene	1.142	1.000	12.4	104	0.00
27 SURR	Fluoranthene-d10	1.006	0.905	10.0	109	0.00
28	Fluoranthene	1.450	1.323	8.8	108	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	109	0.00
30	Pyrene	1.579	1.515	4.1	108	0.00
31 S	Terphenyl-d14	0.797	0.758	4.9	110	0.00
32	Benzo(a)anthracene	1.398	1.289	7.8	108	0.00
33	Chrysene	1.512	1.449	4.2	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.486	12.1	109	0.00
35 I	Perylene-d12	1.000	1.000	0.0	111	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.718	6.0	115	0.00
37	Benzo(b)fluoranthene	1.725	1.589	7.9	108	0.00
38	Benzo(k)fluoranthene	1.736	1.685	2.9	118	0.00
39 C	Benzo(a)pyrene	1.364	1.248	8.5	113	0.01
40	Dibenzo(a,h)anthracene	1.427	1.341	6.0	115	0.01
41	Benzo(g,h,i)perylene	1.499	1.355	9.6	108	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037881.D
Acq On : 24 Sep 2025 18:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 11:38:36 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	101	0.00
2	1,4-Dioxane	0.400	0.412	-3.0	103	0.00
3	n-Nitrosodimethylamine	0.400	0.377	5.8	100	0.00
4 S	2-Fluorophenol	0.400	0.383	4.3	103	0.00
5 S	Phenol-d6	0.400	0.381	4.8	104	0.00
6	bis(2-Chloroethyl)ether	0.400	0.394	1.5	103	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	105	0.00
8 S	Nitrobenzene-d5	0.400	0.381	4.8	106	0.00
9	Naphthalene	0.400	0.381	4.8	105	0.01
10	Hexachlorobutadiene	0.400	0.398	0.5	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.358	10.5	105	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	105	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.400	0.323	19.3	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.383	4.3	107	0.00
16	Acenaphthylene	0.400	0.367	8.3	106	0.00
17	Acenaphthene	0.400	0.371	7.3	106	0.00
18	Fluorene	0.400	0.377	5.8	108	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.391	2.3	102	0.00
21	4-Bromophenyl-phenylether	0.400	0.355	11.3	101	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	105	0.00
23	Atrazine	0.400	0.341	14.8	105	0.00
24	Pentachlorophenol	0.400	0.316	21.0	100	0.00
25	Phenanthrene	0.400	0.370	7.5	106	0.00
26	Anthracene	0.400	0.350	12.5	104	0.00
27 SURR	Fluoranthene-d10	0.400	0.360	10.0	109	0.00
28	Fluoranthene	0.400	0.365	8.8	108	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	109	0.00
30	Pyrene	0.400	0.384	4.0	108	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	110	0.00
32	Benzo(a)anthracene	0.400	0.369	7.8	108	0.00
33	Chrysene	0.400	0.383	4.3	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	109	0.00
35 I	Perylene-d12	0.400	0.400	0.0	111	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	115	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.388	3.0	118	0.00
39 C	Benzo(a)pyrene	0.400	0.366	8.5	113	0.01
40	Dibenzo(a,h)anthracene	0.400	0.376	6.0	115	0.01
41	Benzo(g,h,i)perylene	0.400	0.361	9.8	108	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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/25/2025 11:31
 Lab File ID: BN037883.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	0.915		-9.0	20.0
2-Fluorophenol	0.913	0.967		5.9	20.0
Phenol-d6	1.199	1.243		3.7	20.0
Nitrobenzene-d5	0.305	0.321		5.2	20.0
2-Fluorobiphenyl	1.638	1.650		0.7	20.0
2,4,6-Tribromophenol	0.152	0.143		-5.9	20.0
Terphenyl-d14	0.797	0.754		-5.4	20.0
1,4-Dioxane	0.406	0.421		3.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
 Data File : BN037883.D
 Acq On : 25 Sep 2025 11:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 25 13:29:13 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)

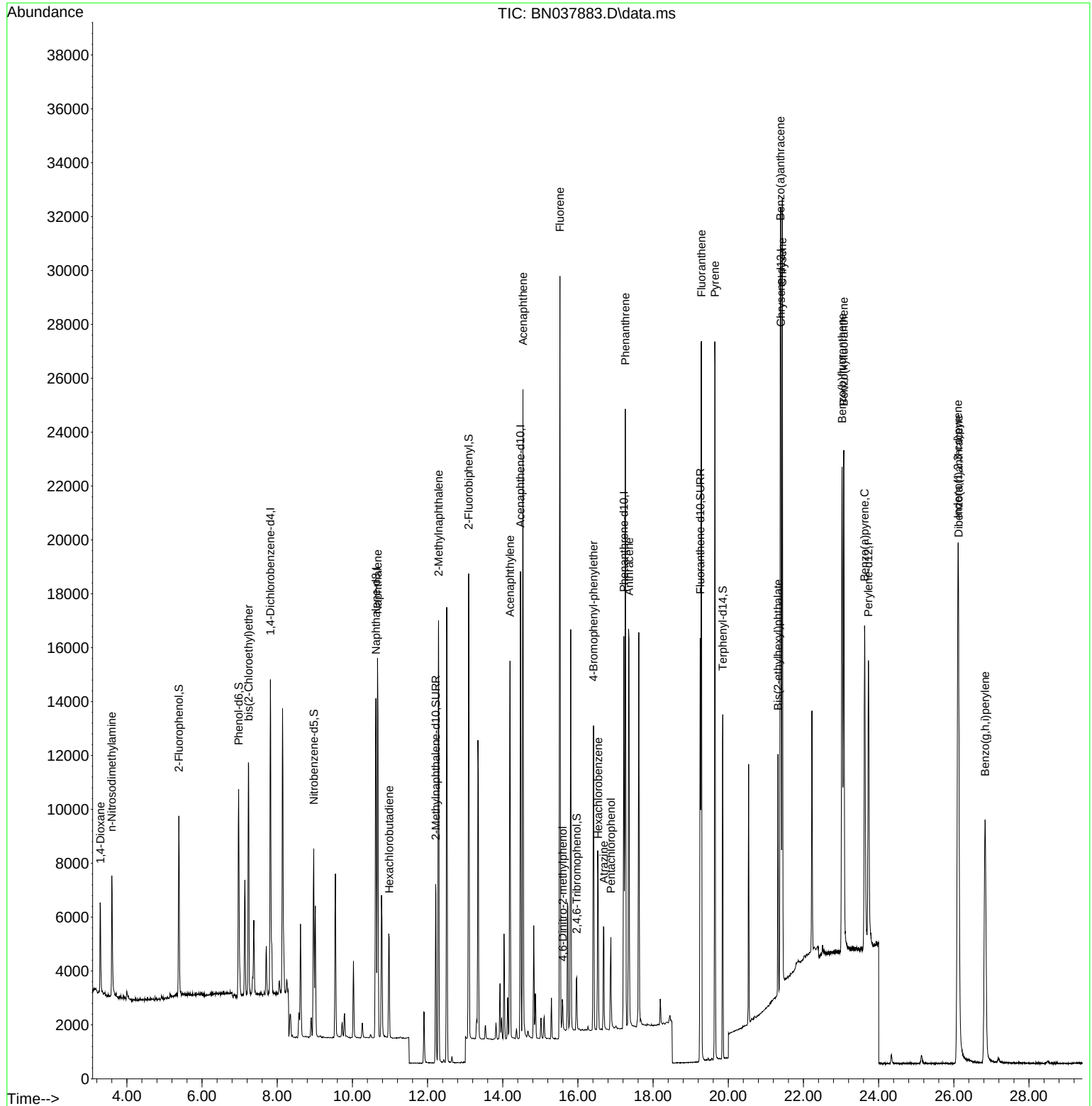
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5686	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16943	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8938	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	18224	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15951	0.400	ng	0.00
35) Perylene-d12	23.730	264	15181	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.385	112	5496	0.424	ng	0.00
5) Phenol-d6	6.973	99	7070	0.415	ng	0.00
8) Nitrobenzene-d5	8.971	82	5435	0.421	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8729	0.371	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1282	0.378	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14748	0.403	ng	0.00
27) Fluoranthene-d10	19.253	212	16679	0.364	ng	0.00
31) Terphenyl-d14	19.852	244	12027	0.379	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2396	0.415	ng	98
3) n-Nitrosodimethylamine	3.601	42	2953	0.385	ng	# 91
6) bis(2-Chloroethyl)ether	7.241	93	6313	0.399	ng	98
9) Naphthalene	10.669	128	18632	0.399	ng	100
10) Hexachlorobutadiene	10.979	225	3268	0.410	ng	# 99
12) 2-Methylnaphthalene	12.294	142	11807	0.387	ng	99
16) Acenaphthylene	14.195	152	15429	0.380	ng	100
17) Acenaphthene	14.537	154	11105	0.384	ng	100
18) Fluorene	15.523	166	13630	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	819	0.416	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4303	0.362	ng	99
22) Hexachlorobenzene	16.540	284	5574	0.387	ng	100
23) Atrazine	16.689	200	3567	0.394	ng	99
24) Pentachlorophenol	16.876	266	1732	0.351	ng	96
25) Phenanthrene	17.260	178	22519	0.375	ng	99
26) Anthracene	17.360	178	18701	0.359	ng	100
28) Fluoranthene	19.285	202	24178	0.366	ng	99
30) Pyrene	19.643	202	23902	0.380	ng	100
32) Benzo(a)anthracene	21.384	228	20770	0.373	ng	99
33) Chrysene	21.438	228	23424	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	7768	0.352	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.110	276	26167	0.377	ng	99
37) Benzo(b)fluoranthene	23.028	252	24299	0.371	ng	99
38) Benzo(k)fluoranthene	23.072	252	25034	0.380	ng	100
39) Benzo(a)pyrene	23.628	252	19225	0.371	ng	100
40) Dibenzo(a,h)anthracene	26.124	278	20318	0.375	ng	100
41) Benzo(g,h,i)perylene	26.835	276	20812	0.366	ng	99

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

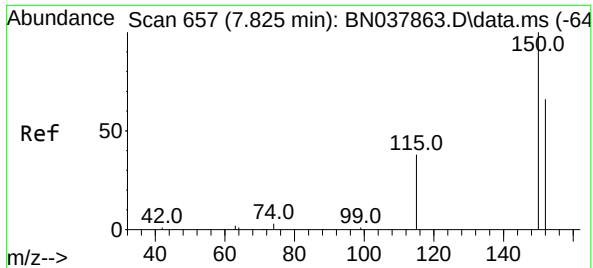
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 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

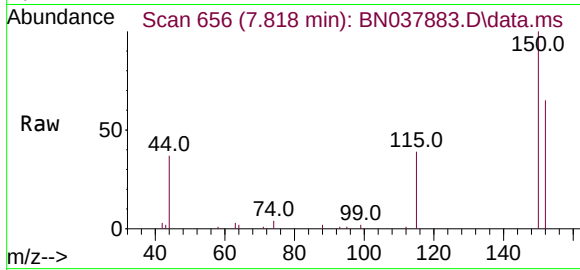


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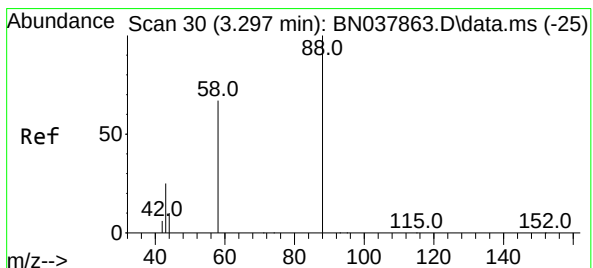
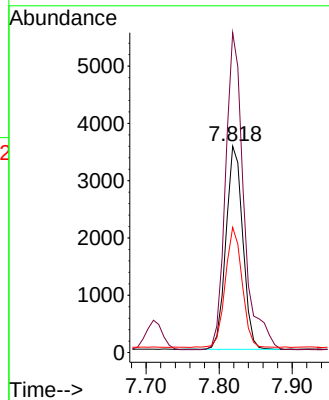
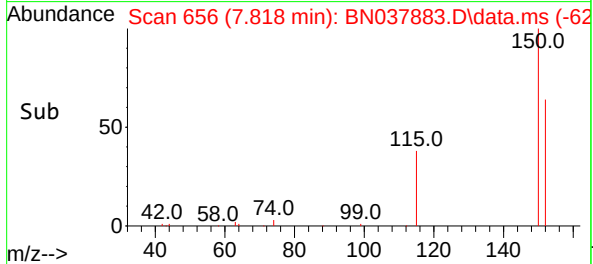


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.818 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037883.D
 Acq: 25 Sep 2025 11:31

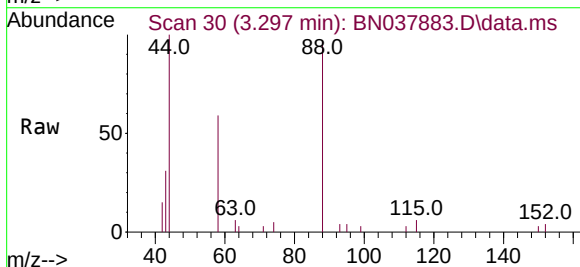
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



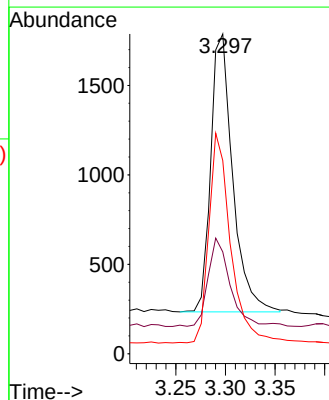
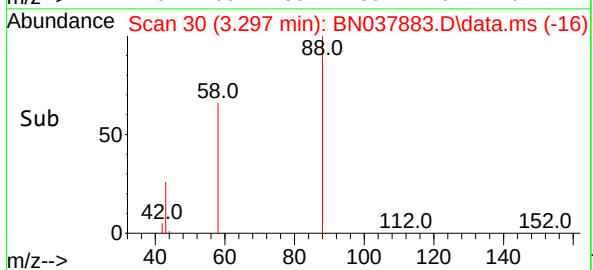
Tgt Ion: 152 Resp: 5686
 Ion Ratio Lower Upper
 152 100
 150 154.9 121.0 181.4
 115 60.6 47.4 71.0

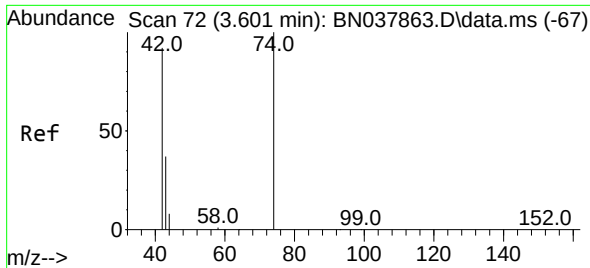


#2
 1,4-Dioxane
 Concen: 0.415 ng
 RT: 3.297 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: BN037883.D
 Acq: 25 Sep 2025 11:31



Tgt Ion: 88 Resp: 2396
 Ion Ratio Lower Upper
 88 100
 43 32.2 26.6 39.8
 58 74.8 58.9 88.3

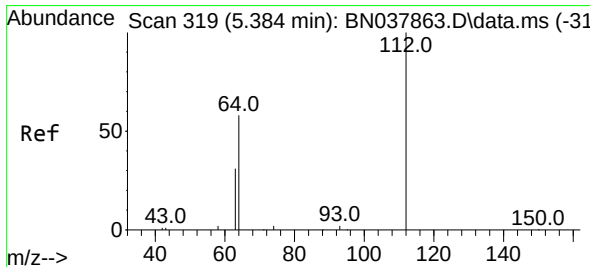
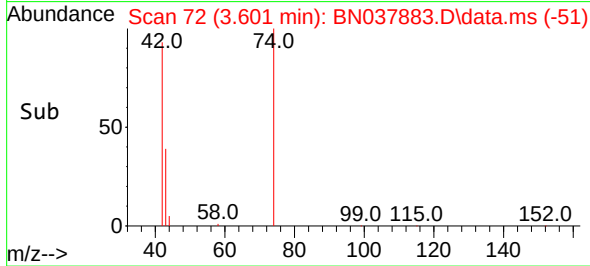
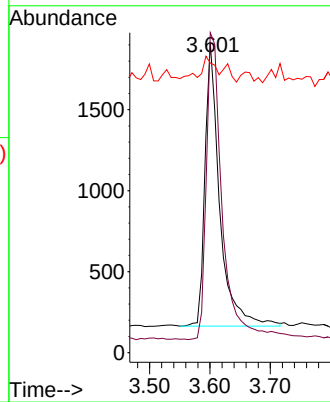
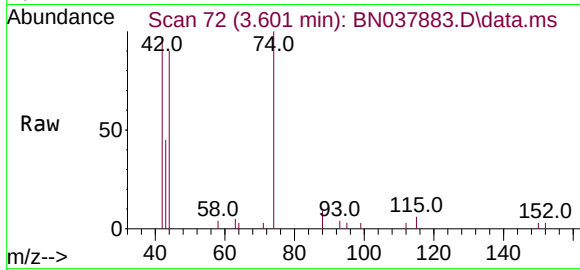




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

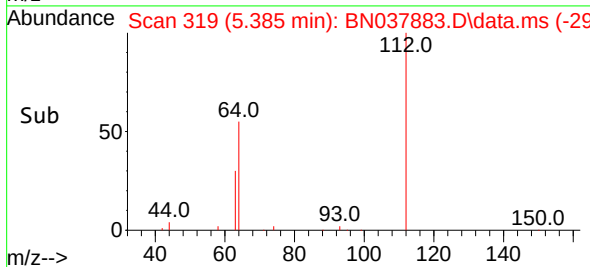
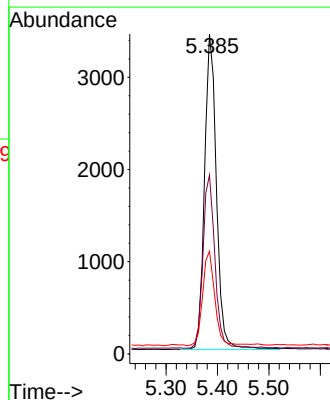
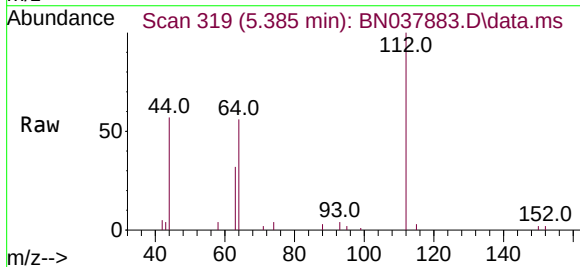
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

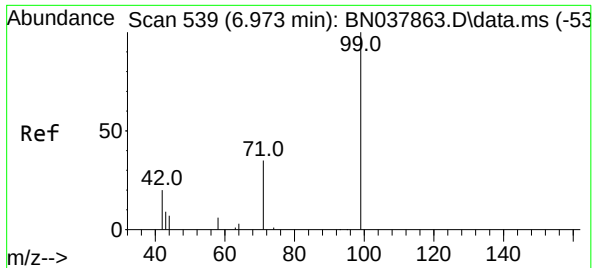
Tgt Ion: 42 Resp: 2953
Ion Ratio Lower Upper
42 100
74 117.9 93.4 140.0
44 7.0 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.385 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 112 Resp: 5496
Ion Ratio Lower Upper
112 100
64 55.5 44.6 66.8
63 31.0 24.9 37.3

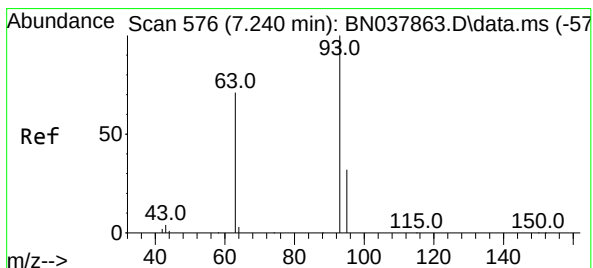
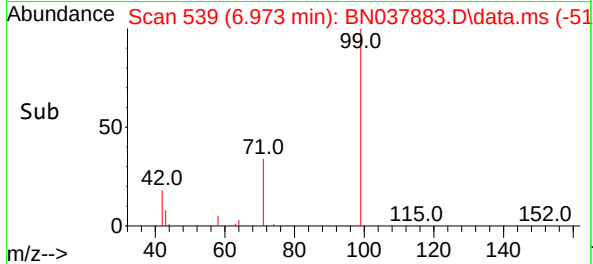
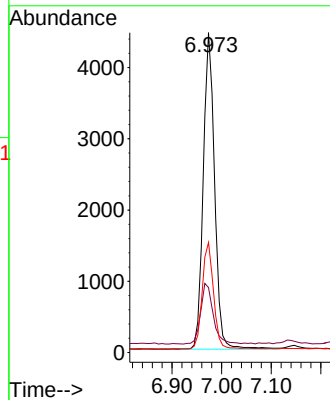
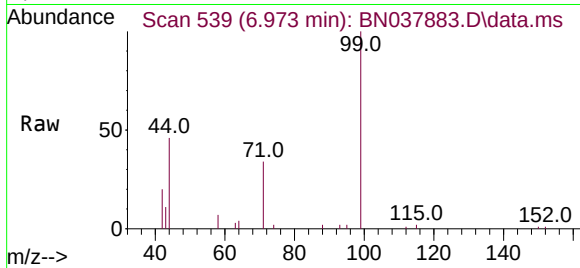




#5
Phenol-d6
Concen: 0.415 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

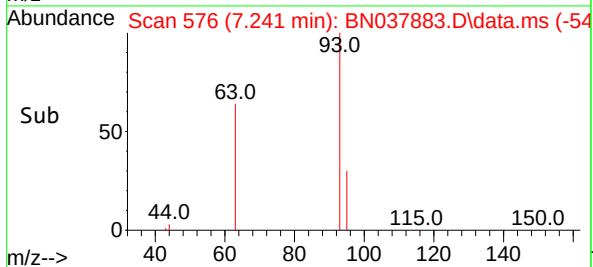
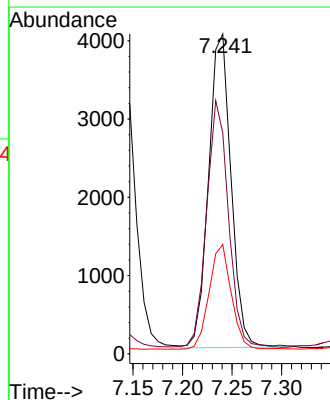
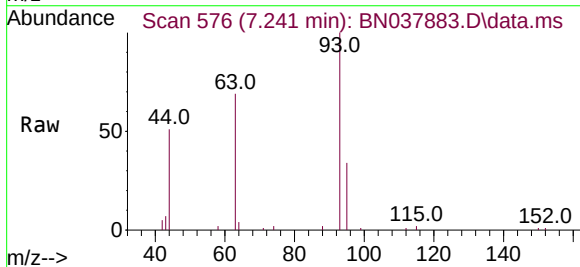
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

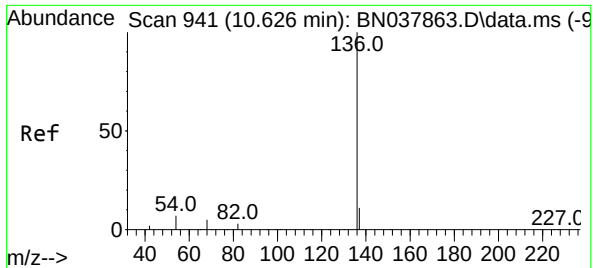
Tgt Ion:	99	Resp:	7070
Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.2	25.8
71	33.4	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	93	Resp:	6313
Ion	Ratio	Lower	Upper
93	100		
63	76.4	60.1	90.1
95	32.8	25.4	38.2

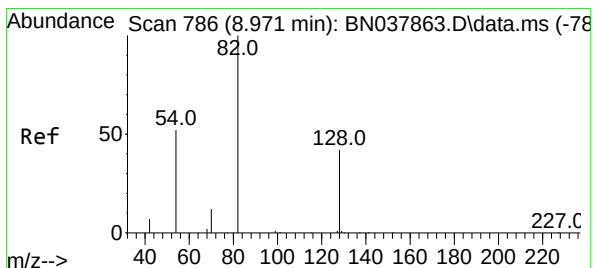
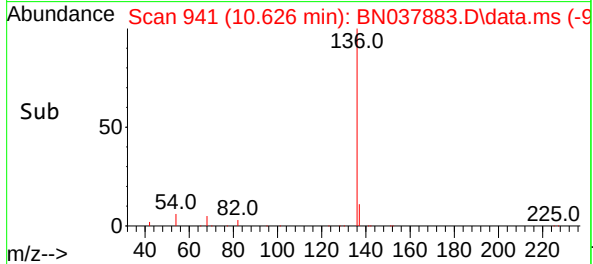
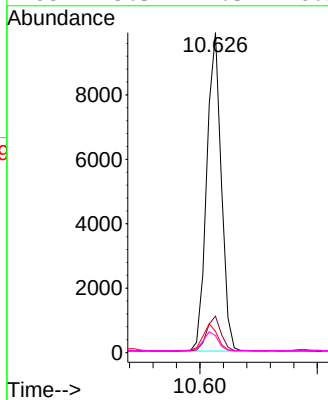
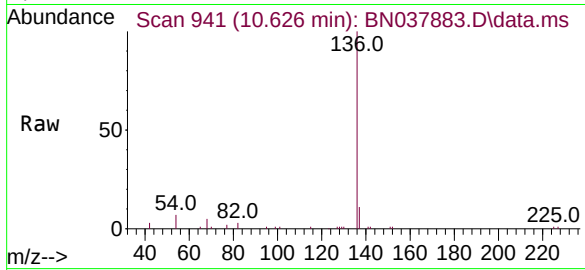




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

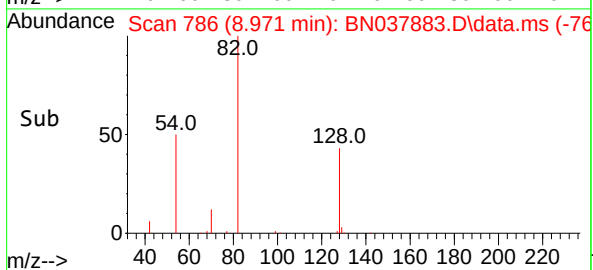
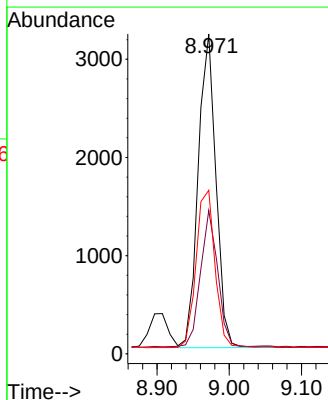
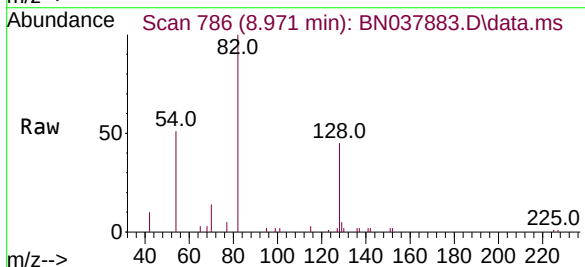
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

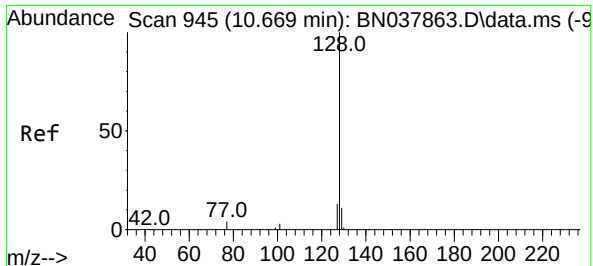
Tgt Ion:	136	Resp:	16943
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.0	13.4
54	6.6	5.8	8.8
68	5.3	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	82	Resp:	5435
Ion Ratio	Lower	Upper	
82	100		
128	44.8	34.8	52.2
54	51.1	42.2	63.2

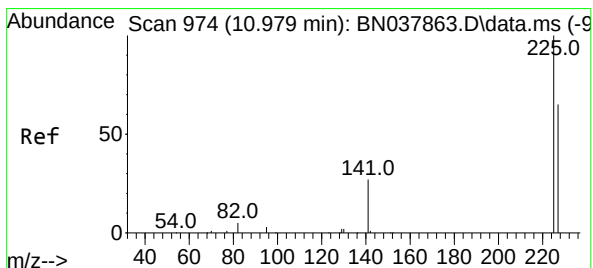
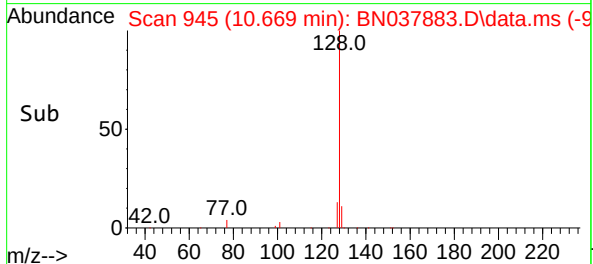
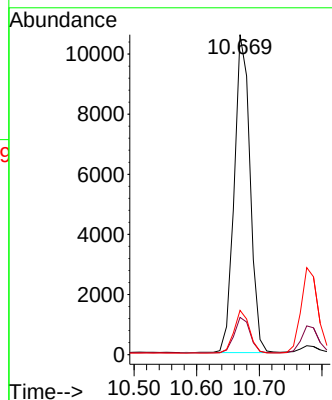
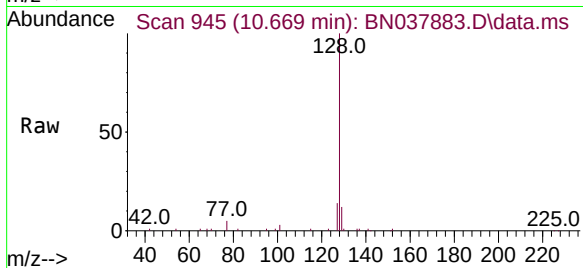




#9
Naphthalene
Concen: 0.399 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

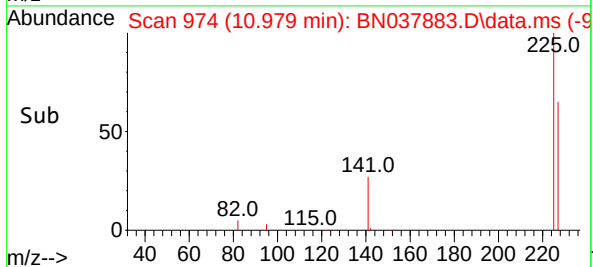
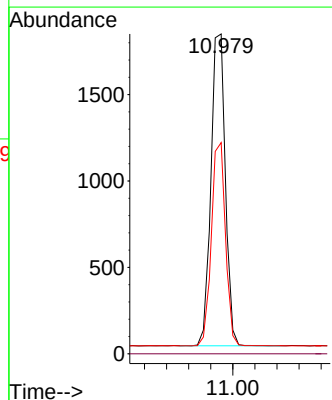
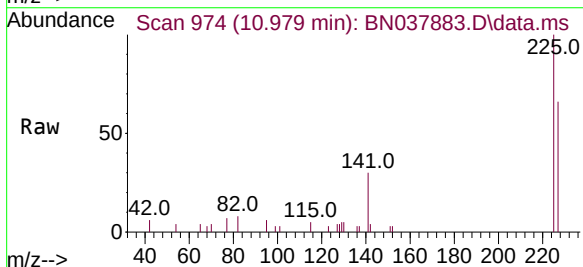
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

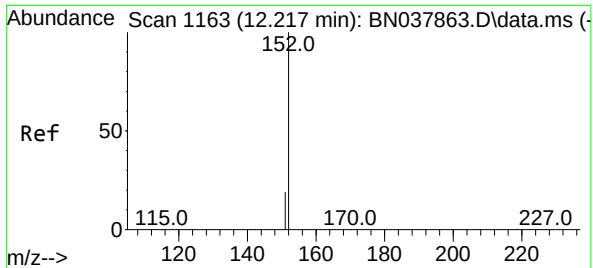
Tgt Ion	128	129	127
Resp:	18632		
Ion Ratio	100	11.6	13.8
Lower		9.2	11.0
Upper		13.8	16.6



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	225	223	227
Resp:	3268		
Ion Ratio	100	0.0	63.7
Lower		0.0	51.4
Upper		0.0	77.2

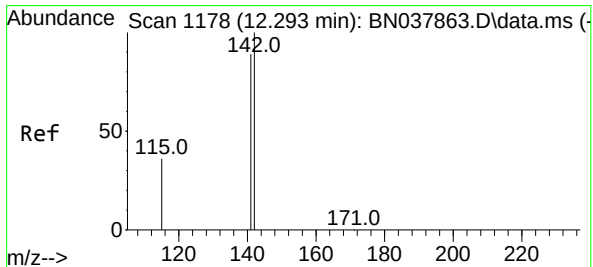
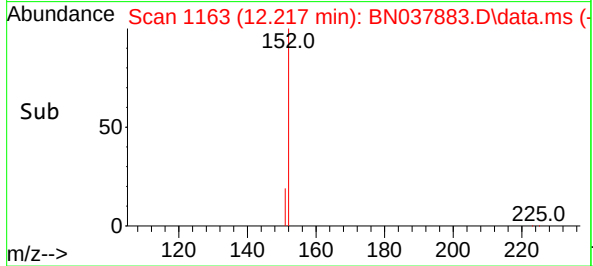
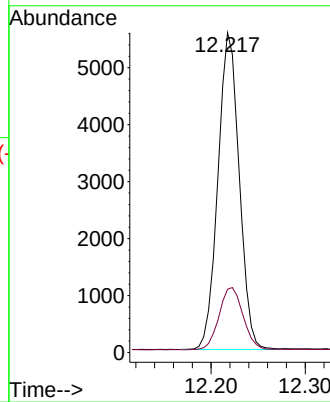
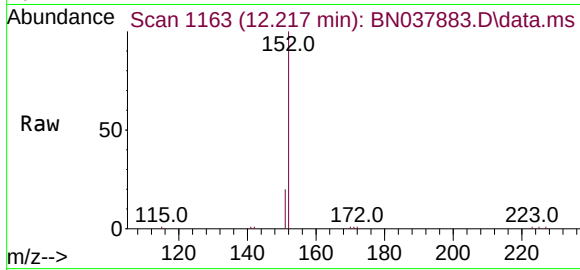




#11
2-Methylnaphthalene-d10
Concen: 0.371 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

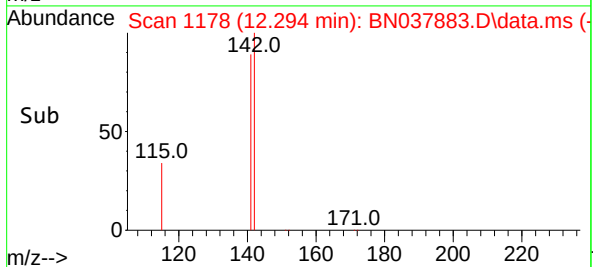
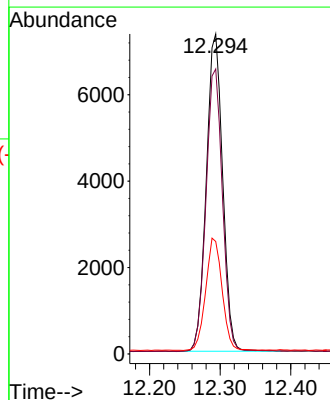
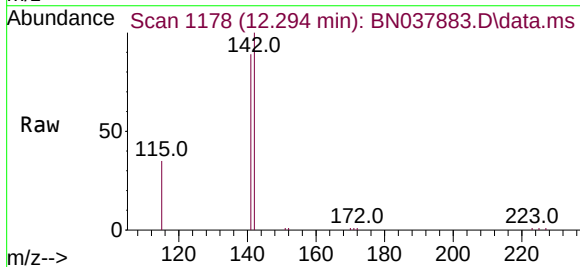
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

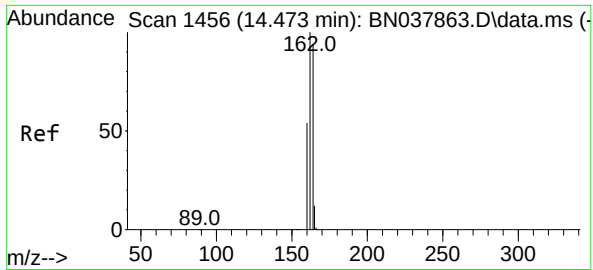
Tgt Ion:152 Resp: 8729
Ion Ratio Lower Upper
152 100
151 22.2 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:142 Resp: 11807
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 35.1 29.7 44.5

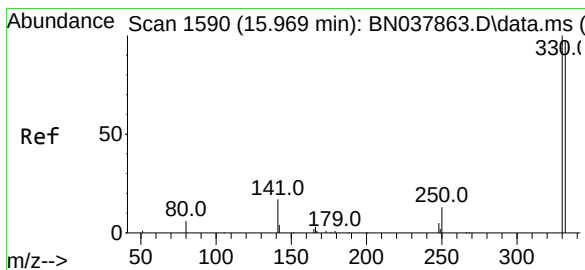
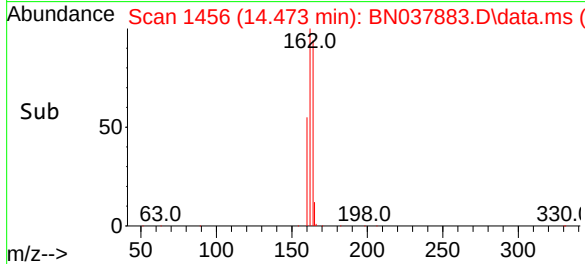
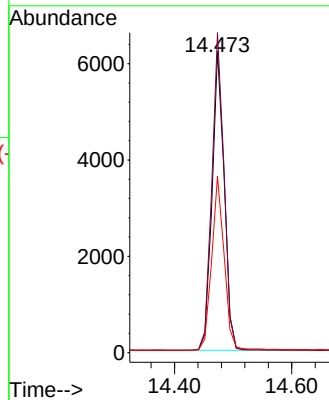
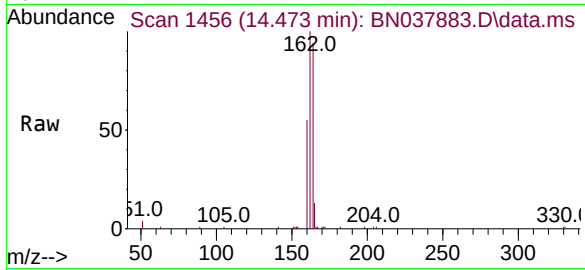




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

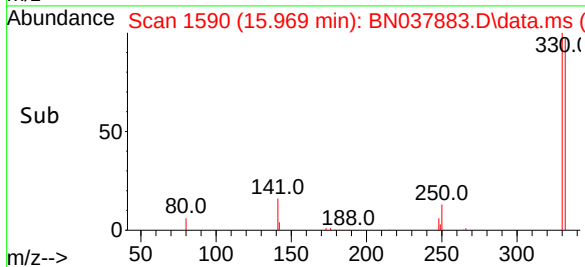
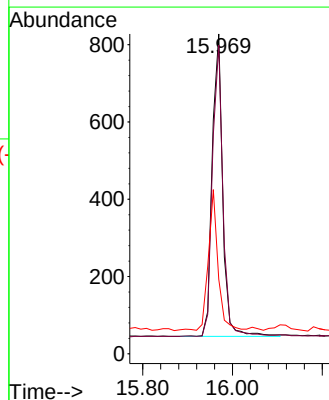
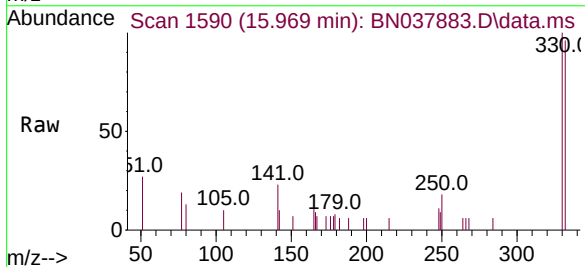
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

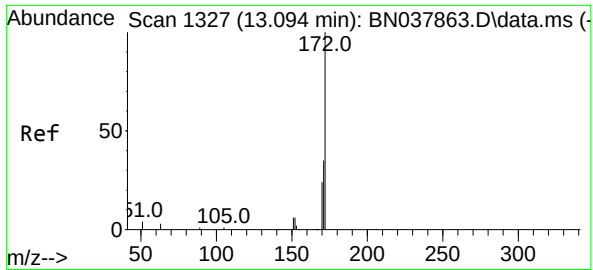
Tgt Ion:	164	Resp:	8938
Ion	Ratio	Lower	Upper
164	100		
162	106.1	84.8	127.2
160	58.5	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	330	Resp:	1282
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.2	115.8
141	43.2	37.2	55.8

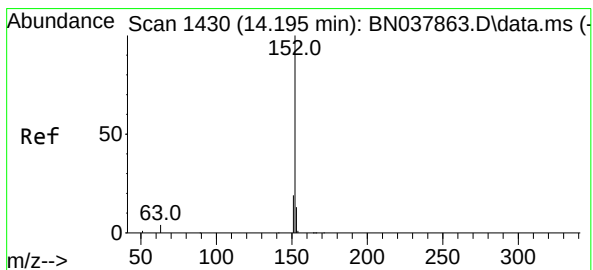
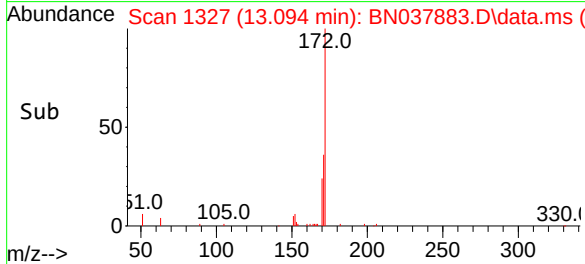
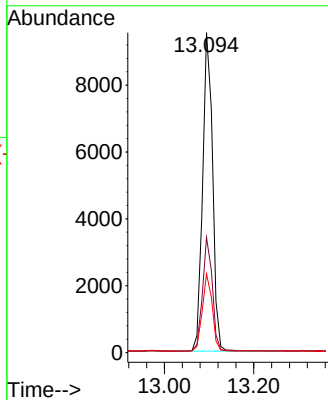
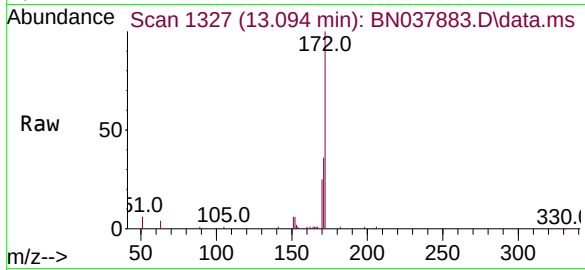




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

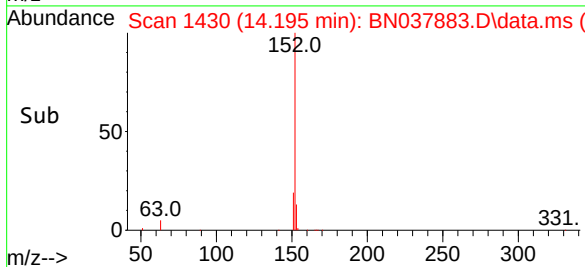
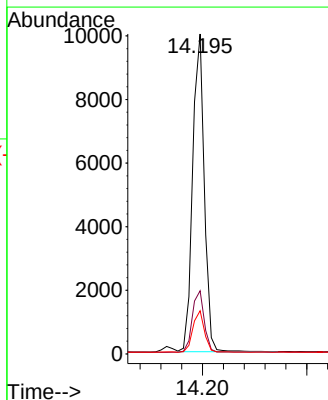
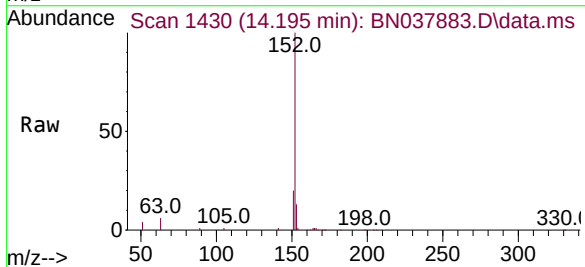
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

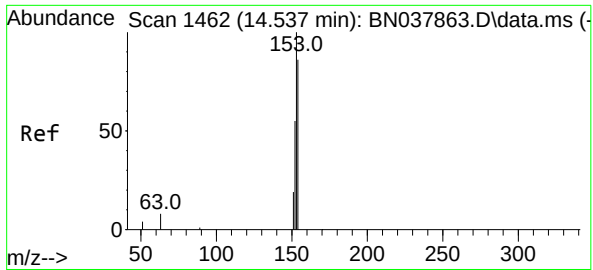
Tgt Ion:	172	Resp:	14748
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	152	Resp:	15429
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.8	23.8
153	12.8	10.5	15.7

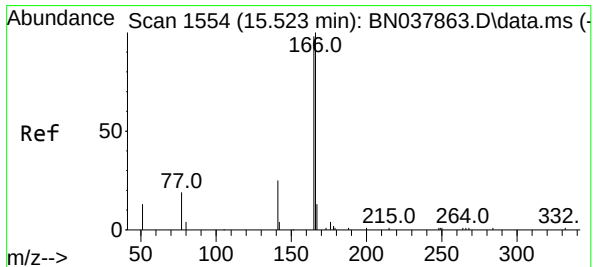
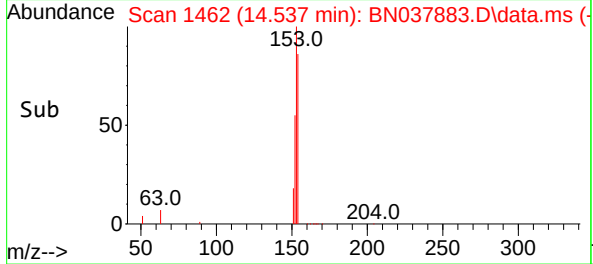
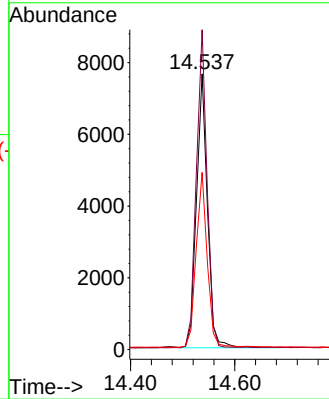
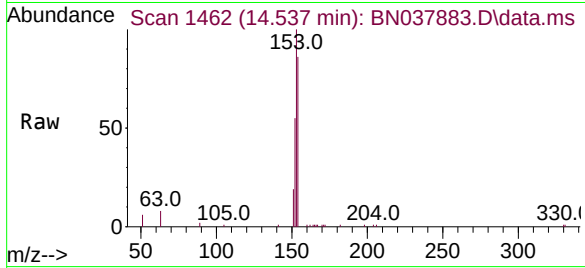




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

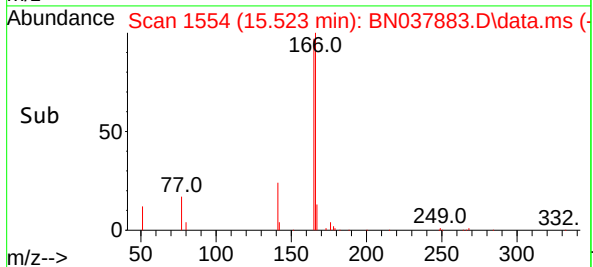
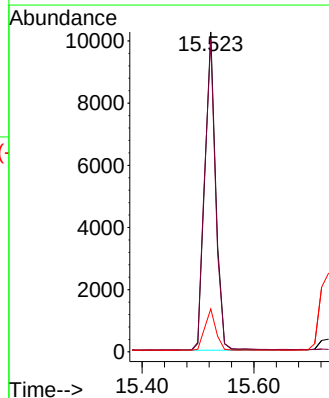
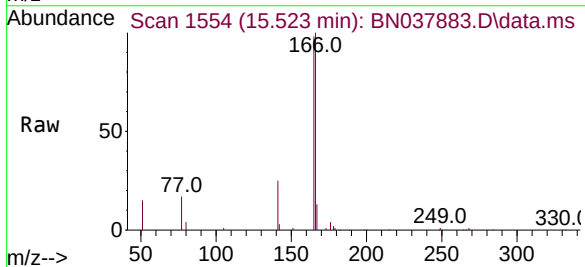
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

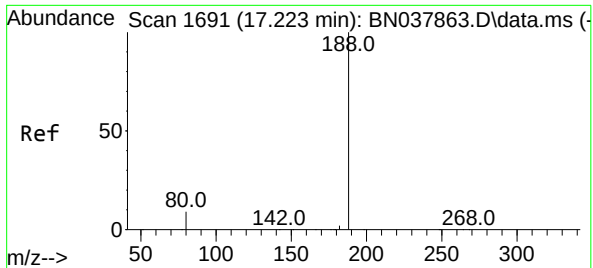
Tgt Ion	154	Resp	11105
Ion Ratio	Lower	Upper	
154	100		
153	113.3	90.5	135.7
152	65.0	51.8	77.8



#18
Fluorene
Concen: 0.390 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	166	Resp	13630
Ion Ratio	Lower	Upper	
166	100		
165	99.0	79.0	118.4
167	12.6	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: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

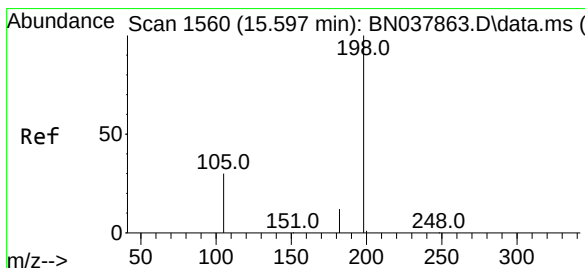
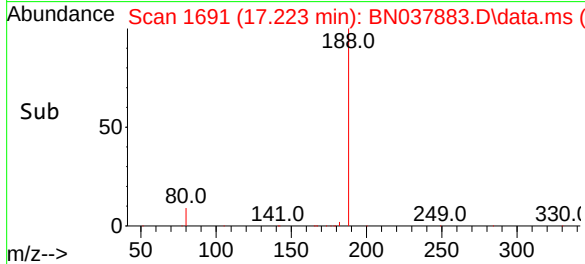
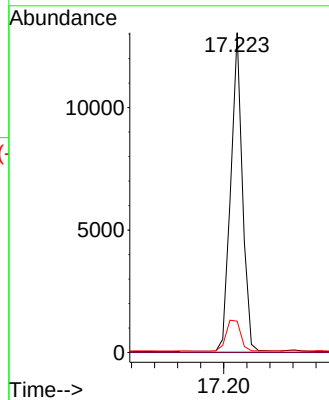
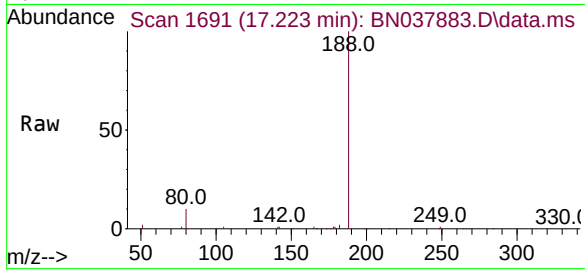
Tgt Ion:188 Resp: 18224

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: 0.416 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

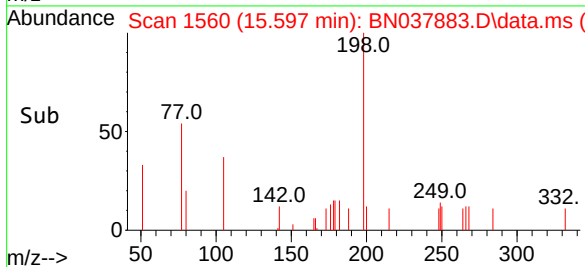
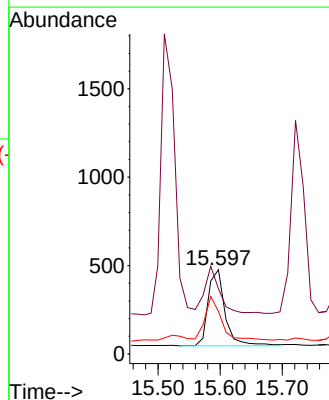
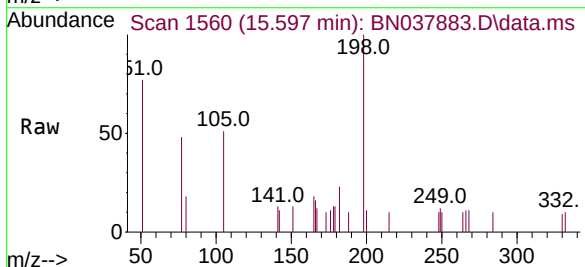
Tgt Ion:198 Resp: 819

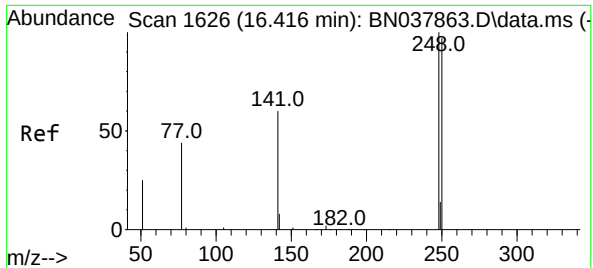
Ion Ratio Lower Upper

198 100

51 77.4 59.1 88.7

105 50.5 41.3 61.9

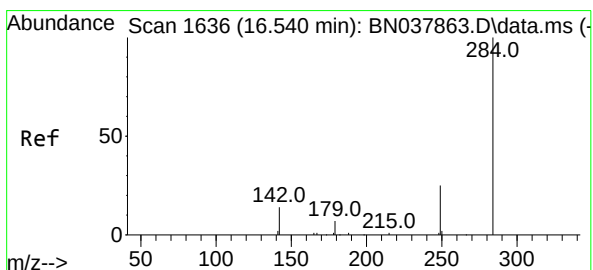
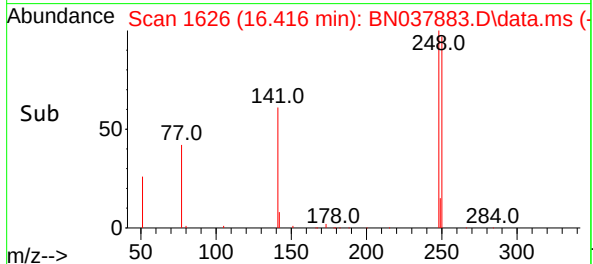
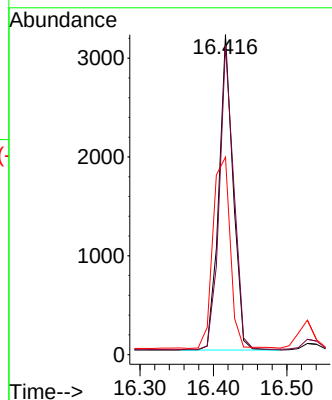
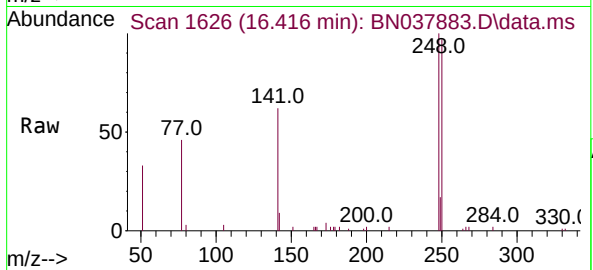




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

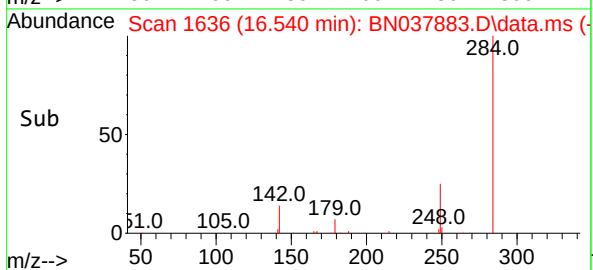
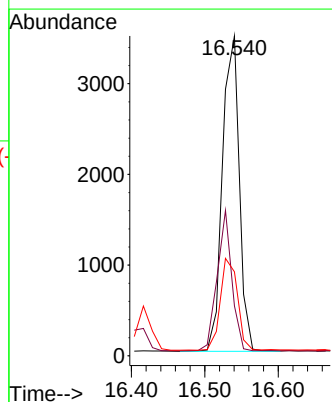
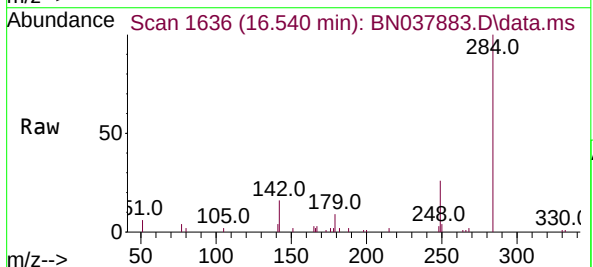
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

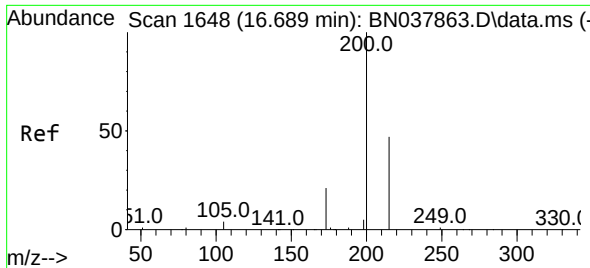
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.7	77.6	116.4
141	61.7	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.0	30.9	46.3
249	29.9	23.9	35.9

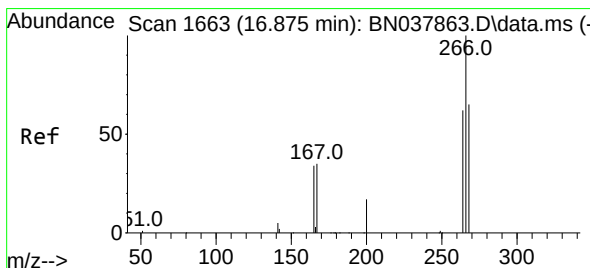
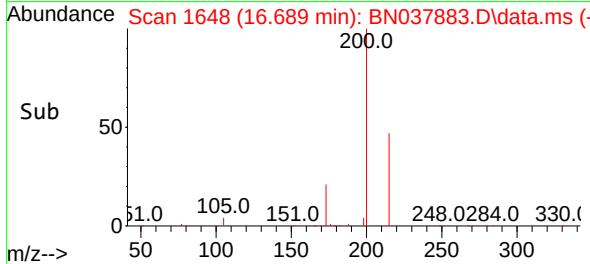
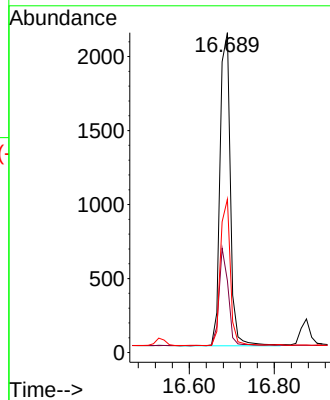
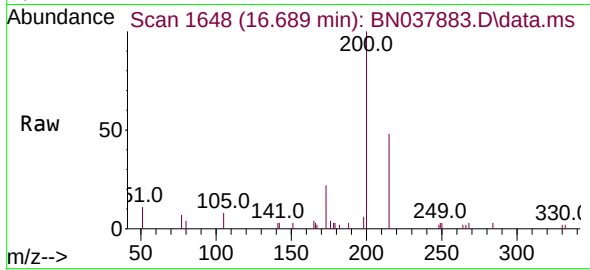




#23
Atrazine
Concen: 0.394 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

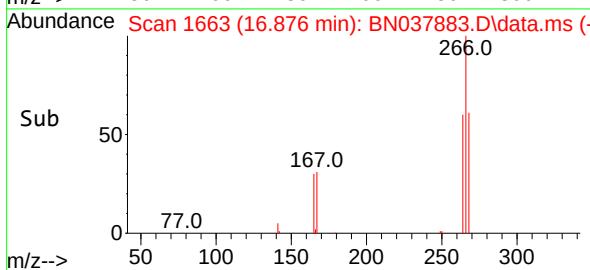
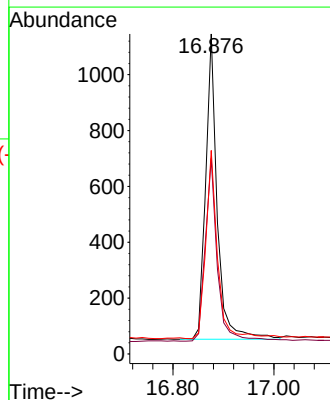
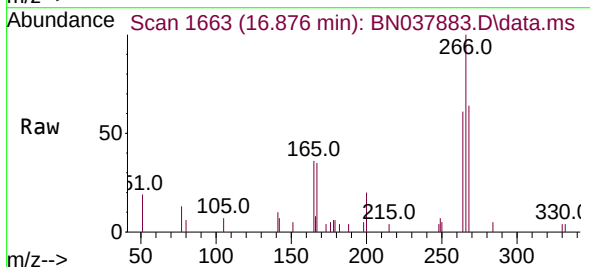
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

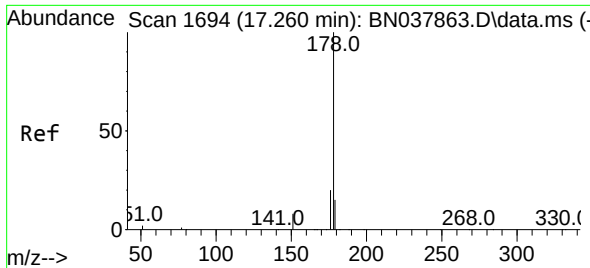
Tgt Ion	200	Resp:	3567
Ion Ratio	Lower	Upper	
200	100		
173	22.5	18.3	27.5
215	47.9	38.6	58.0



#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	266	Resp:	1732
Ion Ratio	Lower	Upper	
266	100		
264	62.2	50.9	76.3
268	63.4	54.3	81.5

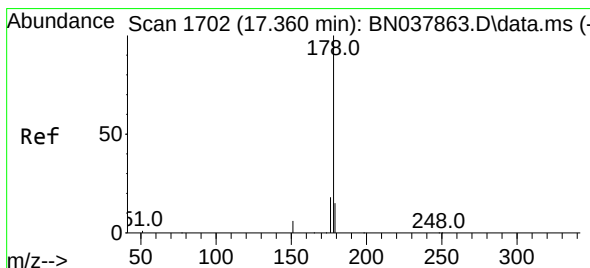
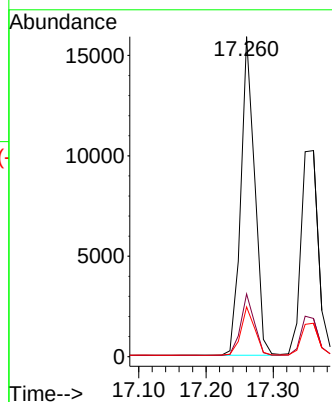
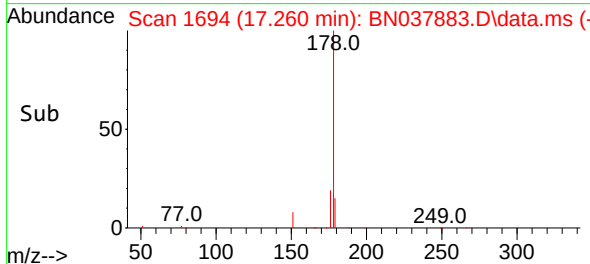
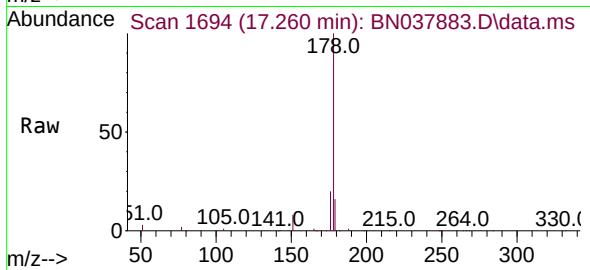




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

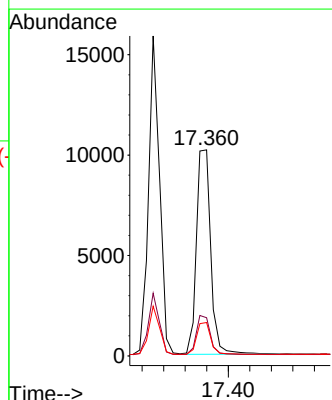
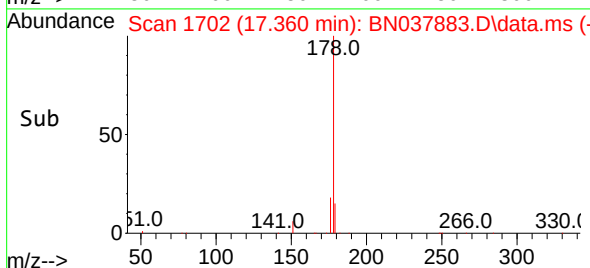
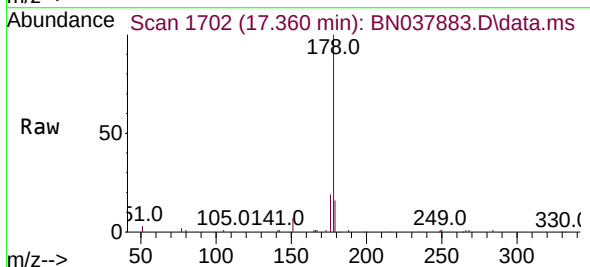
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

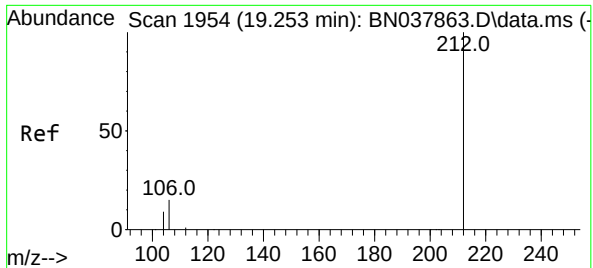
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.2	12.3	18.5



#26
Anthracene
Concen: 0.359 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

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





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

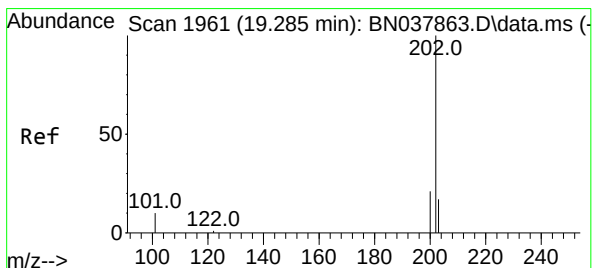
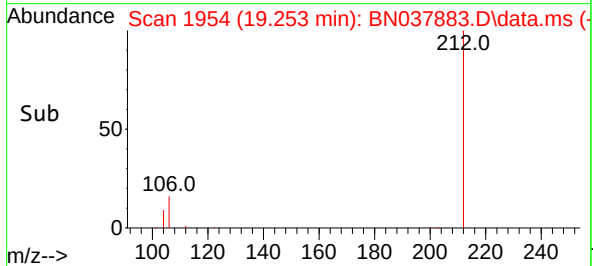
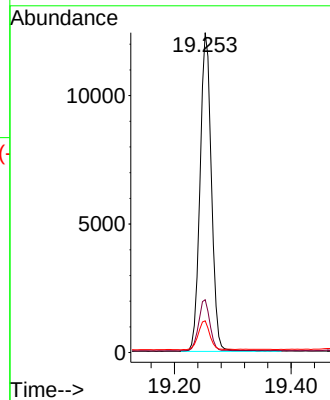
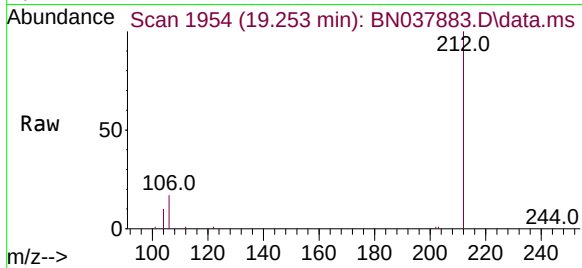
Tgt Ion:212 Resp: 16679

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.366 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

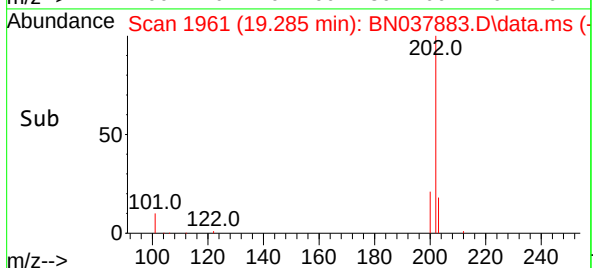
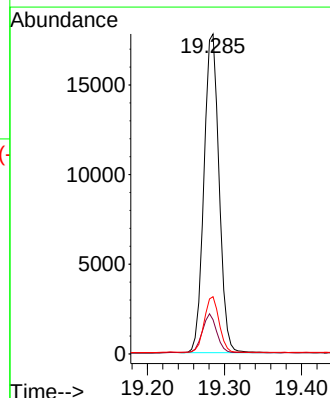
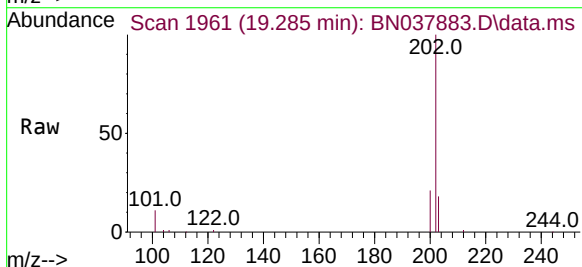
Tgt Ion:202 Resp: 24178

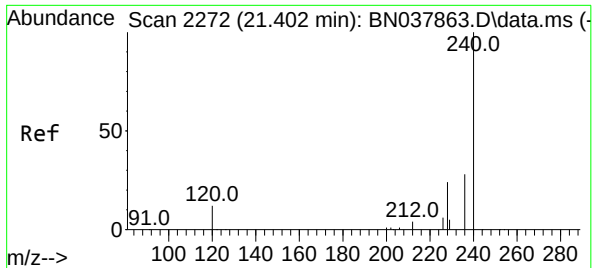
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.2 13.6 20.4

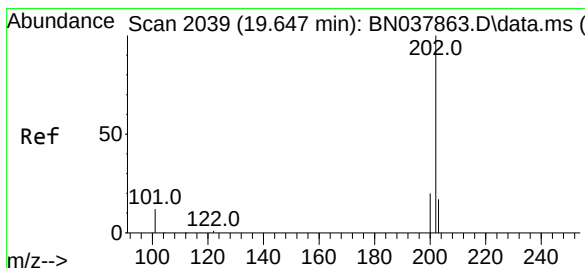
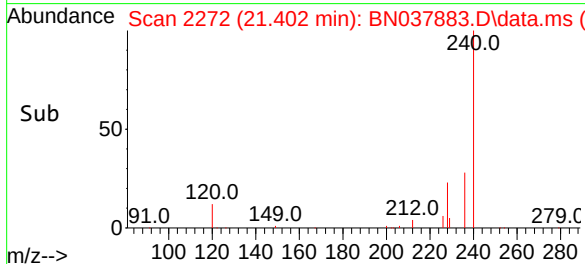
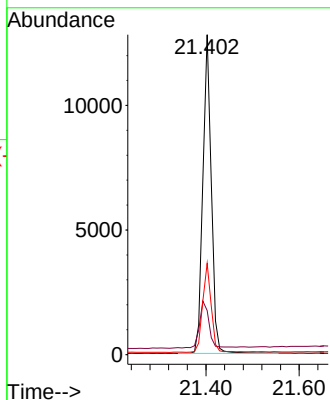
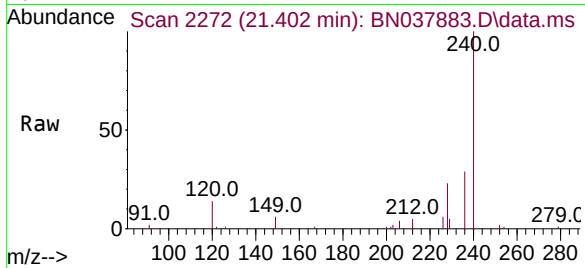




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

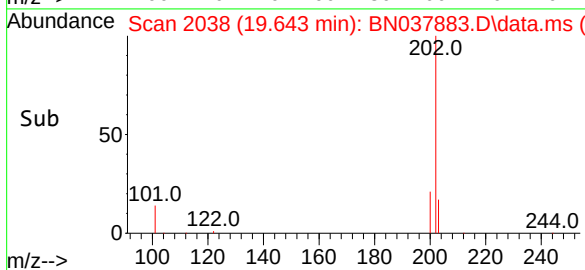
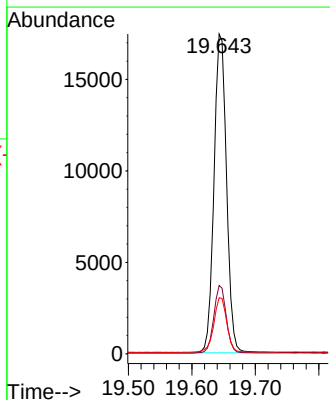
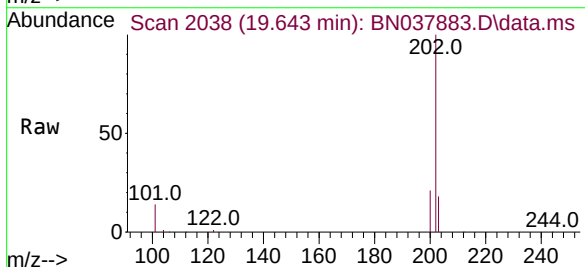
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

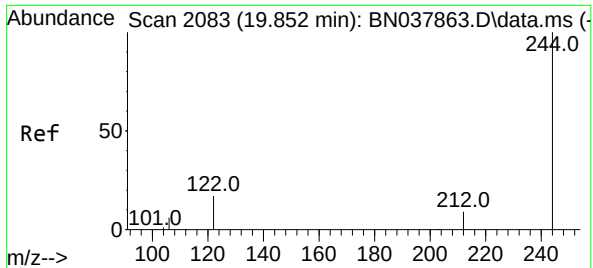
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.8	11.4	17.2
236	28.5	23.0	34.6



#30
Pyrene
Concen: 0.380 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4

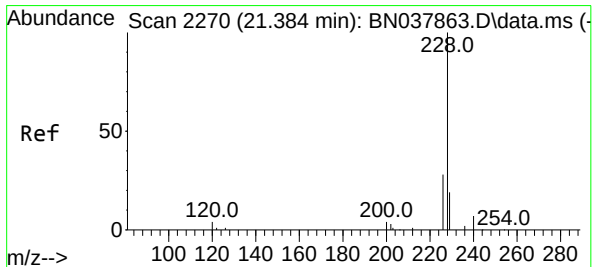
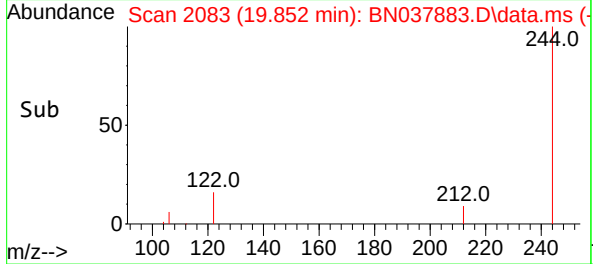
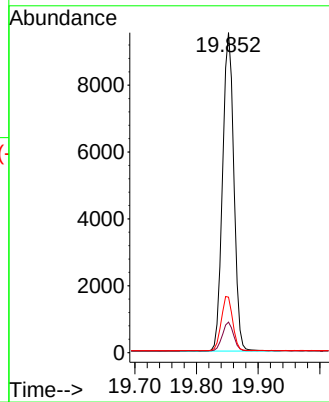
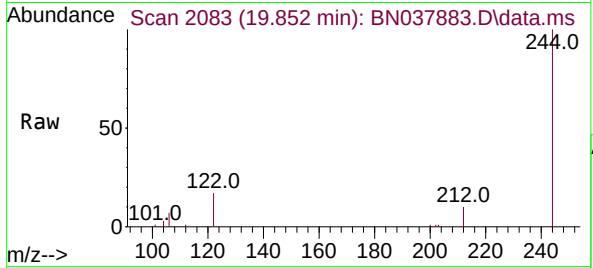




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

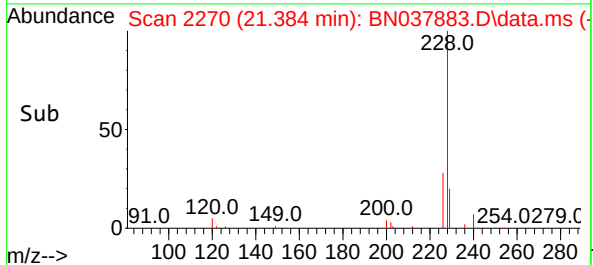
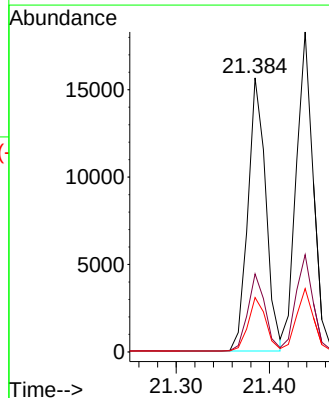
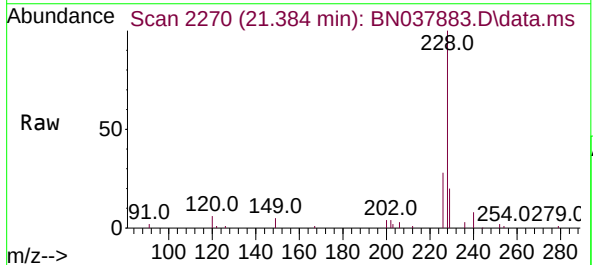
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

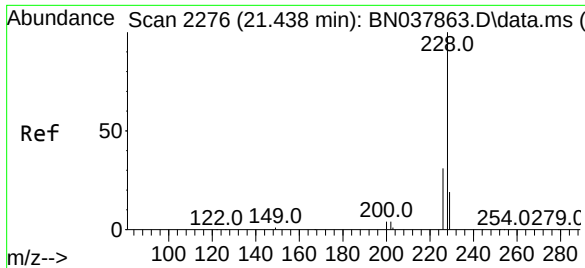
Tgt Ion:244	Resp:	12027
Ion Ratio	Lower	Upper
244	100	
212	9.5	7.6 11.4
122	17.4	13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:228	Resp:	20770
Ion Ratio	Lower	Upper
228	100	
226	28.5	22.6 33.8
229	19.8	15.6 23.4





#33

Chrysene

Concen: 0.389 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

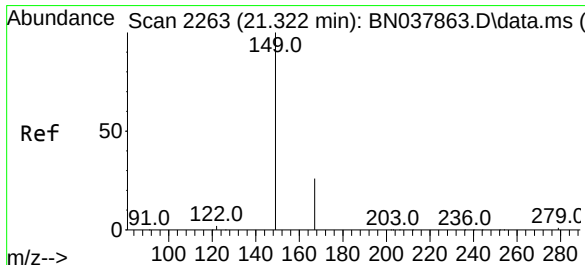
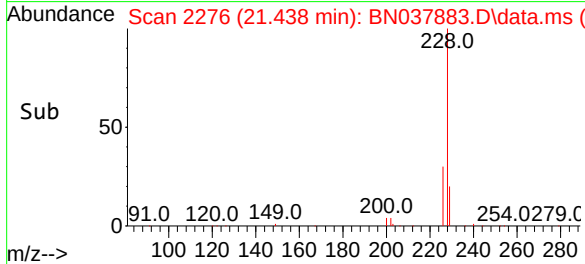
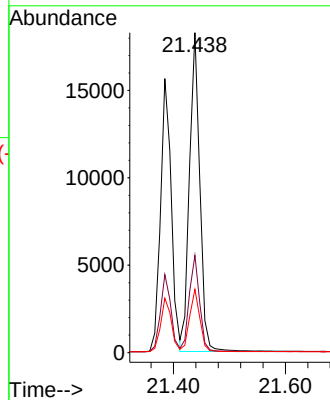
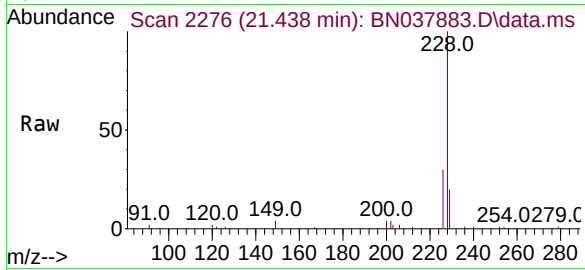
Tgt Ion:228 Resp: 23424

Ion Ratio Lower Upper

228 100

226 30.4 24.6 37.0

229 19.8 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: BN037883.D

Acq: 25 Sep 2025 11:31

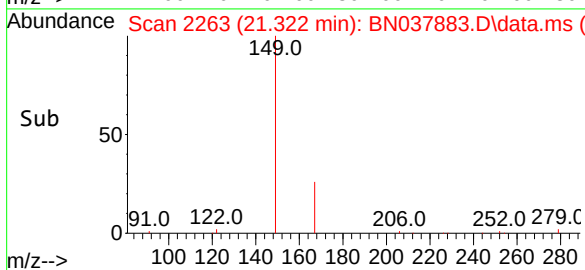
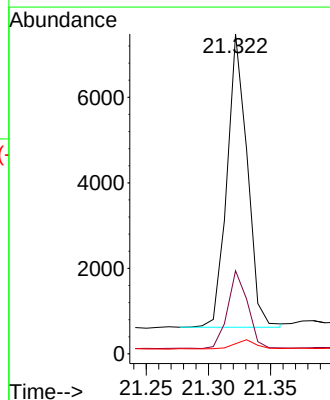
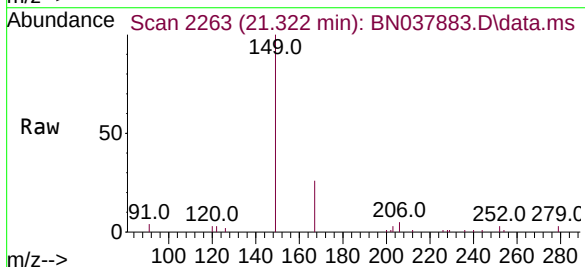
Tgt Ion:149 Resp: 7768

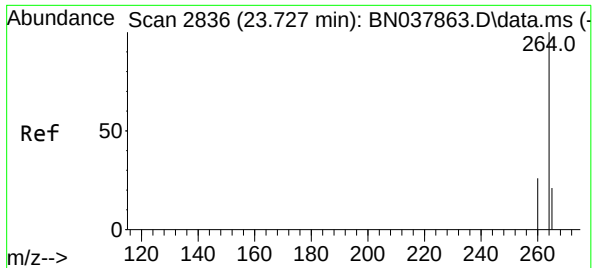
Ion Ratio Lower Upper

149 100

167 26.3 20.4 30.6

279 3.7 2.4 3.6#

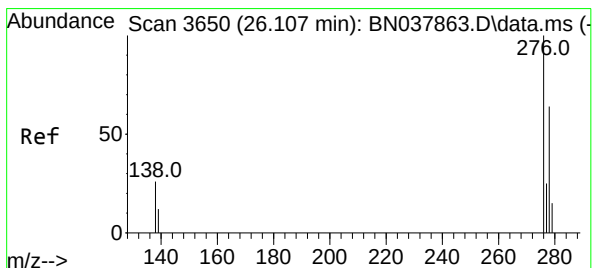
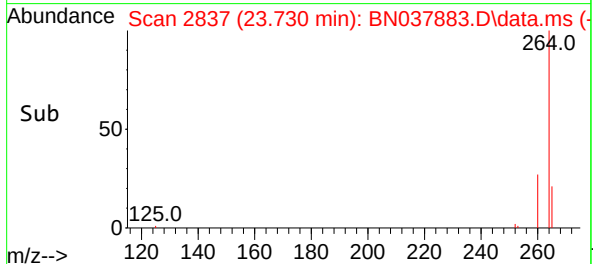
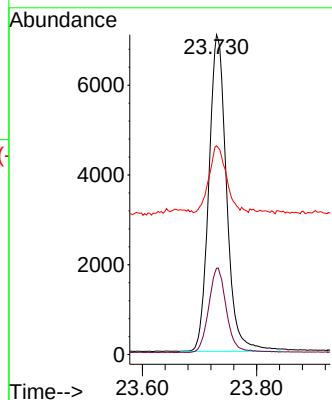
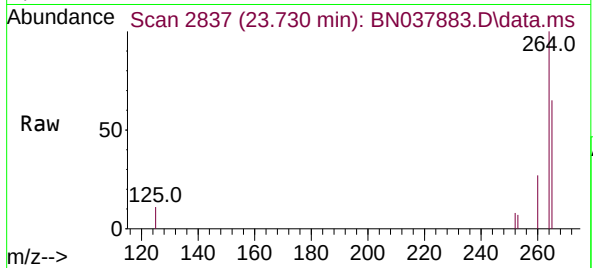




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

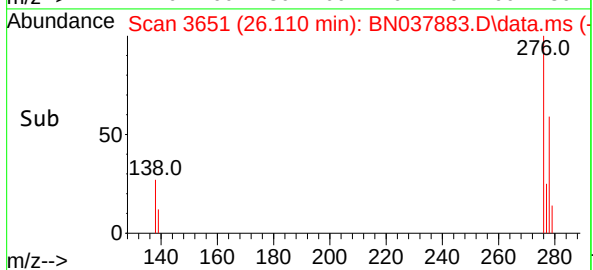
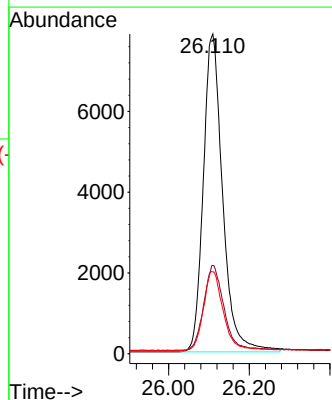
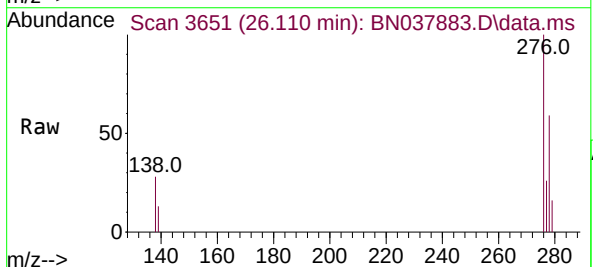
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

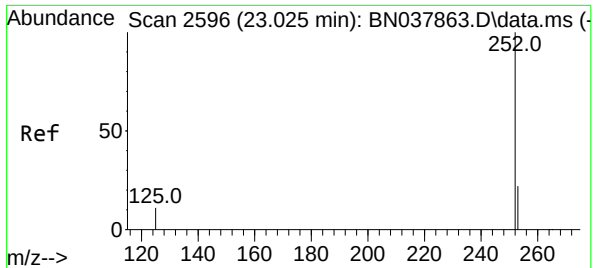
Tgt Ion:264 Resp: 15181
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 65.2 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:276 Resp: 26167
Ion Ratio Lower Upper
276 100
138 27.4 21.4 32.0
277 24.8 20.3 30.5

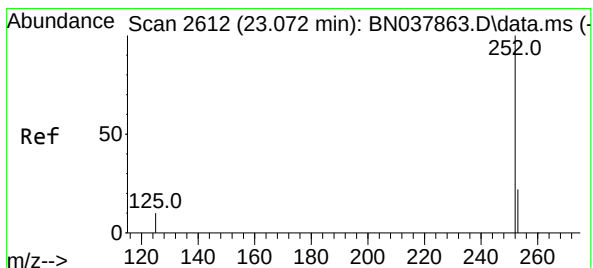
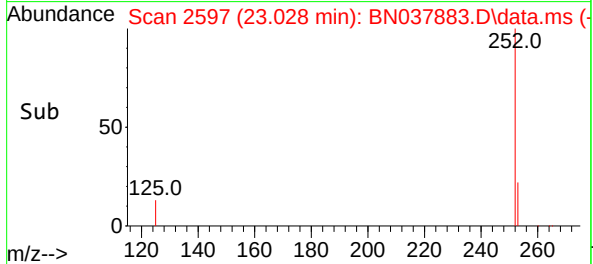
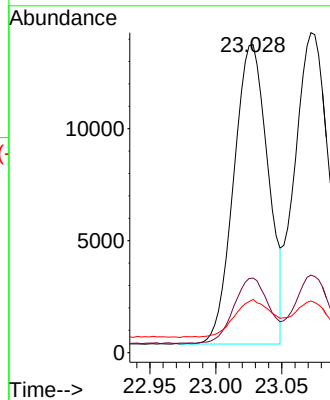
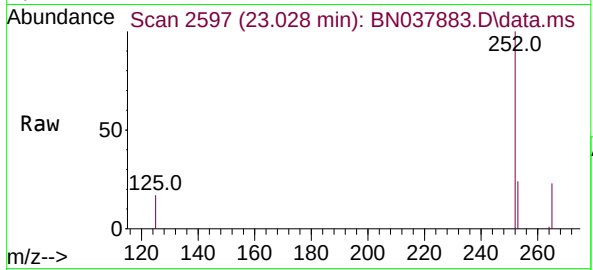




#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 23.028 min Scan# 2597
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

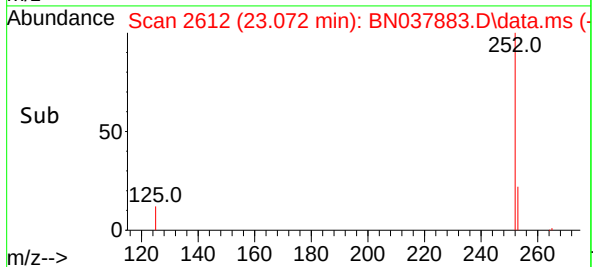
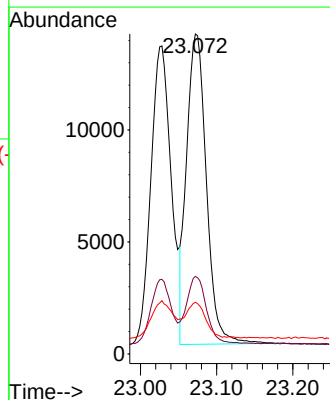
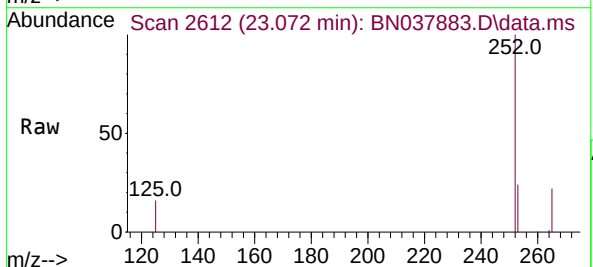
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

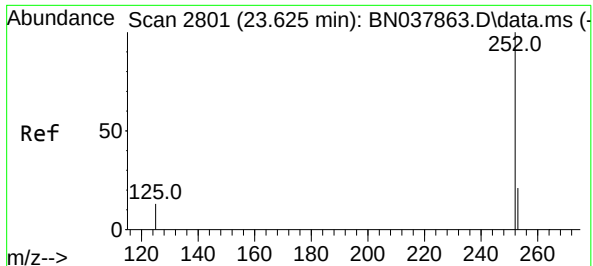
Tgt Ion:252 Resp: 24299
Ion Ratio Lower Upper
252 100
253 24.2 19.4 29.0
125 17.3 13.0 19.4



#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 23.072 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:252 Resp: 25034
Ion Ratio Lower Upper
252 100
253 24.2 19.5 29.3
125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

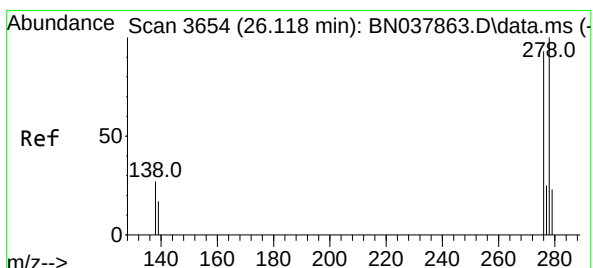
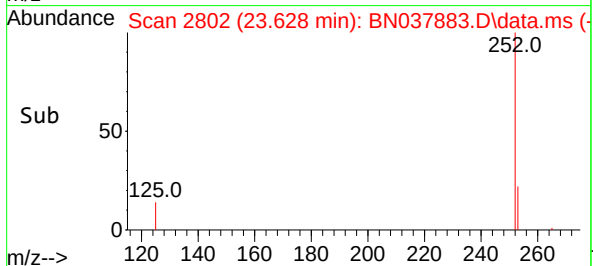
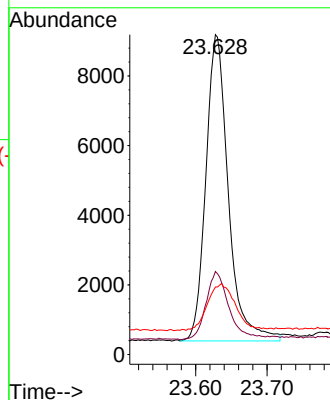
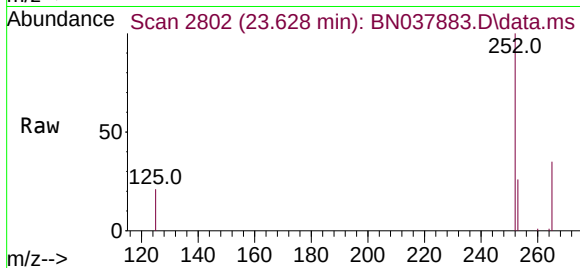
Tgt Ion:252 Resp: 19225

Ion Ratio Lower Upper

252 100

253 26.0 20.6 30.8

125 21.1 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

RT: 26.124 min Scan# 3656

Delta R.T. 0.006 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

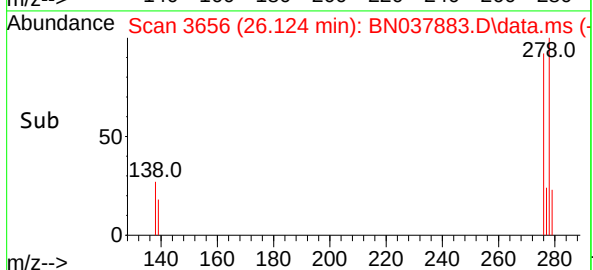
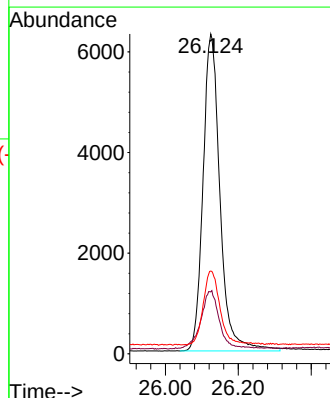
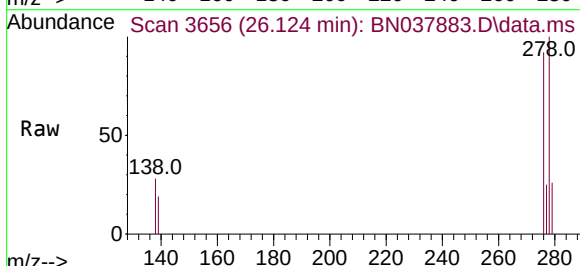
Tgt Ion:278 Resp: 20318

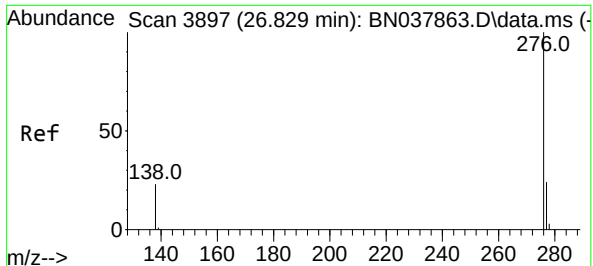
Ion Ratio Lower Upper

278 100

139 19.4 15.4 23.2

279 25.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037883.D

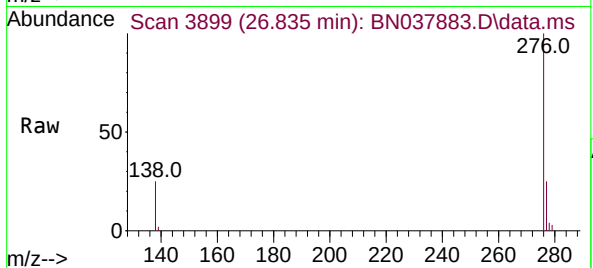
Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



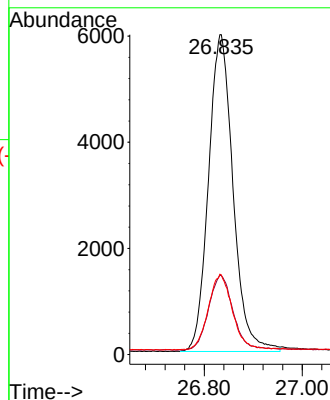
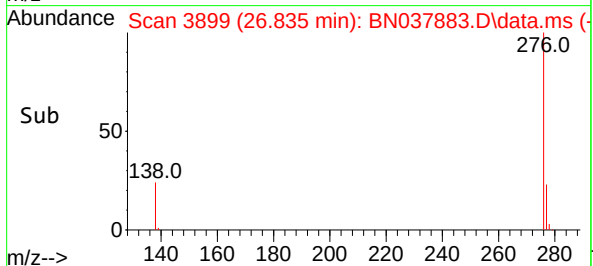
Tgt Ion:276 Resp: 20812

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.4

138 24.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 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	102	0.00
2	1,4-Dioxane	0.406	0.421	-3.7	105	0.00
3	n-Nitrosodimethylamine	0.540	0.519	3.9	102	0.00
4 S	2-Fluorophenol	0.913	0.967	-5.9	115	0.00
5 S	Phenol-d6	1.199	1.243	-3.7	113	0.00
6	bis(2-Chloroethyl)ether	1.113	1.110	0.3	105	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.305	0.321	-5.2	119	0.00
9	Naphthalene	1.102	1.100	0.2	113	0.00
10	Hexachlorobutadiene	0.188	0.193	-2.7	114	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.515	7.4	111	0.00
12	2-Methylnaphthalene	0.720	0.697	3.2	112	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.152	0.143	5.9	115	0.00
15 S	2-Fluorobiphenyl	1.638	1.650	-0.7	115	0.00
16	Acenaphthylene	1.816	1.726	5.0	113	0.00
17	Acenaphthene	1.294	1.242	4.0	112	0.00
18	Fluorene	1.565	1.525	2.6	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	118	0.00
21	4-Bromophenyl-phenylether	0.261	0.236	9.6	110	0.00
22	Hexachlorobenzene	0.316	0.306	3.2	115	0.00
23	Atrazine	0.199	0.196	1.5	130	0.00
24	Pentachlorophenol	0.108	0.095	12.0	118	0.00
25	Phenanthrene	1.316	1.236	6.1	115	0.00
26	Anthracene	1.142	1.026	10.2	115	0.00
27 SURR	Fluoranthene-d10	1.006	0.915	9.0	118	0.00
28	Fluoranthene	1.450	1.327	8.5	116	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	1.579	1.498	5.1	116	0.00
31 S	Terphenyl-d14	0.797	0.754	5.4	118	0.00
32	Benzo(a)anthracene	1.398	1.302	6.9	118	0.00
33	Chrysene	1.512	1.468	2.9	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.487	11.9	117	0.00
35 I	Perylene-d12	1.000	1.000	0.0	121	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.724	5.7	125	0.00
37	Benzo(b)fluoranthene	1.725	1.601	7.2	118	0.00
38	Benzo(k)fluoranthene	1.736	1.649	5.0	125	0.00
39 C	Benzo(a)pyrene	1.364	1.266	7.2	124	0.00
40	Dibenzo(a,h)anthracene	1.427	1.338	6.2	124	0.00
41	Benzo(g,h,i)perylene	1.499	1.371	8.5	118	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 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	102	0.00
2	1,4-Dioxane	0.400	0.415	-3.7	105	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	102	0.00
4 S	2-Fluorophenol	0.400	0.424	-6.0	115	0.00
5 S	Phenol-d6	0.400	0.415	-3.7	113	0.00
6	bis(2-Chloroethyl)ether	0.400	0.399	0.3	105	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.421	-5.2	119	0.00
9	Naphthalene	0.400	0.399	0.3	113	0.00
10	Hexachlorobutadiene	0.400	0.410	-2.5	114	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.371	7.3	111	0.00
12	2-Methylnaphthalene	0.400	0.387	3.3	112	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.378	5.5	115	0.00
15 S	2-Fluorobiphenyl	0.400	0.403	-0.8	115	0.00
16	Acenaphthylene	0.400	0.380	5.0	113	0.00
17	Acenaphthene	0.400	0.384	4.0	112	0.00
18	Fluorene	0.400	0.390	2.5	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.416	-4.0	118	0.00
21	4-Bromophenyl-phenylether	0.400	0.362	9.5	110	0.00
22	Hexachlorobenzene	0.400	0.387	3.3	115	0.00
23	Atrazine	0.400	0.394	1.5	130	0.00
24	Pentachlorophenol	0.400	0.351	12.3	118	0.00
25	Phenanthrene	0.400	0.375	6.3	115	0.00
26	Anthracene	0.400	0.359	10.3	115	0.00
27 SURR	Fluoranthene-d10	0.400	0.364	9.0	118	0.00
28	Fluoranthene	0.400	0.366	8.5	116	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.380	5.0	116	0.00
31 S	Terphenyl-d14	0.400	0.379	5.3	118	0.00
32	Benzo(a)anthracene	0.400	0.373	6.8	118	0.00
33	Chrysene	0.400	0.389	2.8	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	117	0.00
35 I	Perylene-d12	0.400	0.400	0.0	121	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	125	0.00
37	Benzo(b)fluoranthene	0.400	0.371	7.3	118	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	125	0.00
39 C	Benzo(a)pyrene	0.400	0.371	7.3	124	0.00
40	Dibenzo(a,h)anthracene	0.400	0.375	6.3	124	0.00
41	Benzo(g,h,i)perylene	0.400	0.366	8.5	118	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: AECO15
 Lab Code: ACE SDG No.: Q3097
 Instrument ID: BNA_N Calibration Date/Time: 09/25/2025 22:31
 Lab File ID: BN037901.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	0.514		-7.6	50.0
Fluoranthene-d10	1.006	0.920		-8.5	50.0
2-Fluorophenol	0.913	0.982		7.6	50.0
Phenol-d6	1.199	1.281		6.8	50.0
Nitrobenzene-d5	0.305	0.313		2.6	50.0
2-Fluorobiphenyl	1.638	1.527		-6.8	50.0
2,4,6-Tribromophenol	0.152	0.142		-6.6	50.0
Terphenyl-d14	0.797	0.761		-4.5	50.0
1,4-Dioxane	0.406	0.415		2.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

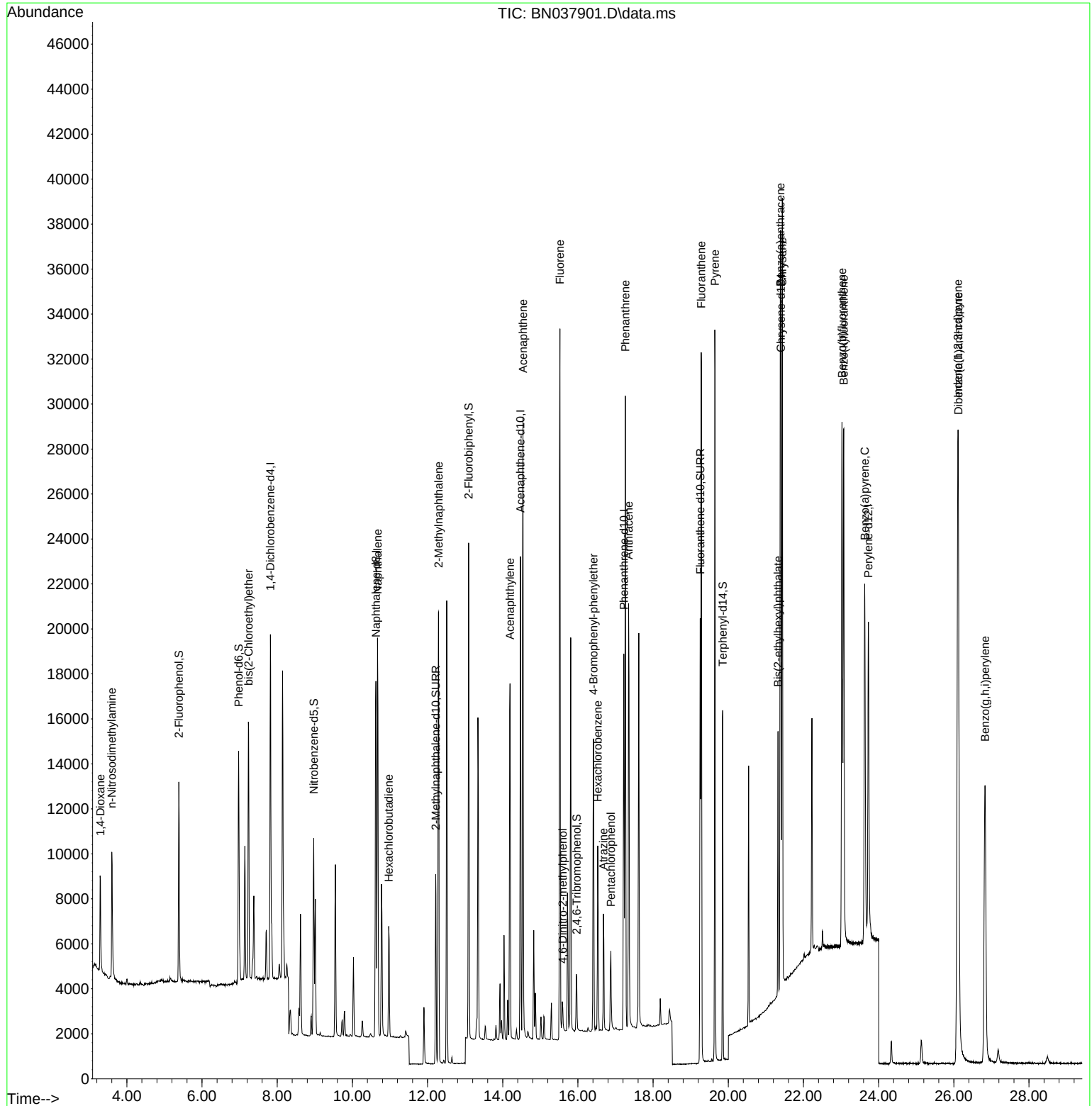
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7512	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	21514	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	11178	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	22063	0.400	ng	0.00
29) Chrysene-d12	21.402	240	18965	0.400	ng	0.00
35) Perylene-d12	23.730	264	19432	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	7379	0.430	ng	0.00
5) Phenol-d6	6.973	99	9626	0.427	ng	0.00
8) Nitrobenzene-d5	8.971	82	6744	0.411	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	11067	0.370	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1585	0.374	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	17074	0.373	ng	0.00
27) Fluoranthene-d10	19.253	212	20296	0.366	ng	0.00
31) Terphenyl-d14	19.852	244	14438	0.382	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.297	88	3121	0.409	ng	97
3) n-Nitrosodimethylamine	3.600	42	3686	0.363	ng	# 91
6) bis(2-Chloroethyl)ether	7.240	93	8515	0.407	ng	100
9) Naphthalene	10.669	128	23529	0.397	ng	99
10) Hexachlorobutadiene	10.968	225	4020	0.398	ng	# 100
12) 2-Methylnaphthalene	12.293	142	14799	0.382	ng	98
16) Acenaphthylene	14.195	152	18759	0.370	ng	100
17) Acenaphthene	14.537	154	13596	0.376	ng	99
18) Fluorene	15.523	166	16239	0.371	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	976	0.410	ng	# 87
21) 4-Bromophenyl-phenylether	16.416	248	5160	0.359	ng	94
22) Hexachlorobenzene	16.528	284	6462	0.371	ng	99
23) Atrazine	16.677	200	4270	0.390	ng	# 90
24) Pentachlorophenol	16.875	266	1948	0.326	ng	98
25) Phenanthrene	17.260	178	26713	0.368	ng	100
26) Anthracene	17.347	178	22252	0.353	ng	100
28) Fluoranthene	19.280	202	28968	0.362	ng	99
30) Pyrene	19.643	202	28732	0.384	ng	99
32) Benzo(a)anthracene	21.384	228	24796	0.374	ng	100
33) Chrysene	21.438	228	27866	0.389	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	9764	0.372	ng	98
36) Indeno(1,2,3-cd)pyrene	26.107	276	37256	0.420	ng	98
37) Benzo(b)fluoranthene	23.025	252	30958	0.369	ng	99
38) Benzo(k)fluoranthene	23.072	252	30978	0.367	ng	100
39) Benzo(a)pyrene	23.630	252	25319	0.382	ng	# 95
40) Dibenzo(a,h)anthracene	26.118	278	28899	0.417	ng	99
41) Benzo(g,h,i)perylene	26.832	276	28258	0.388	ng	99

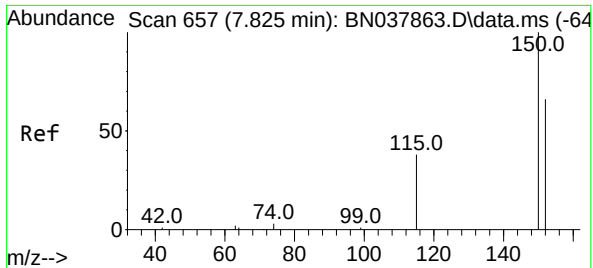
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

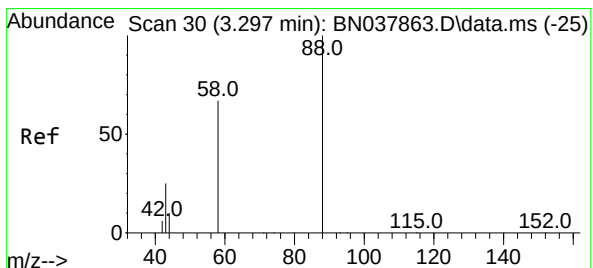
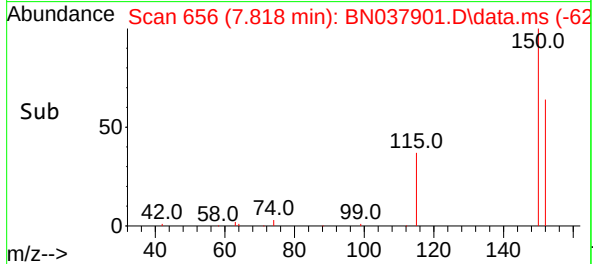
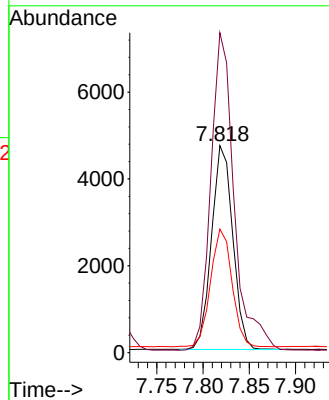
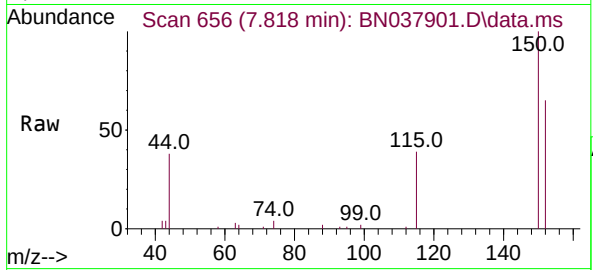




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

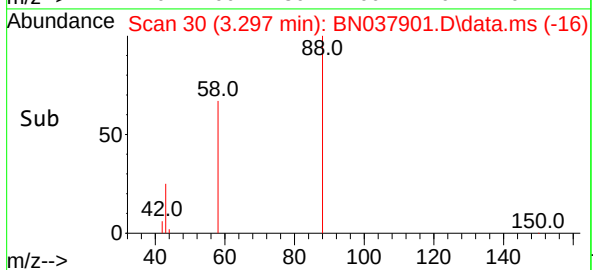
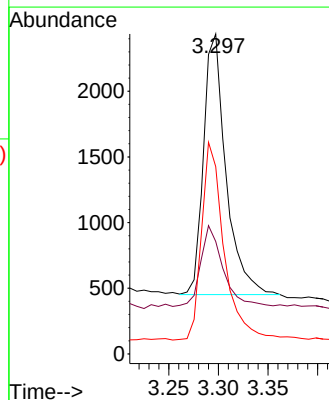
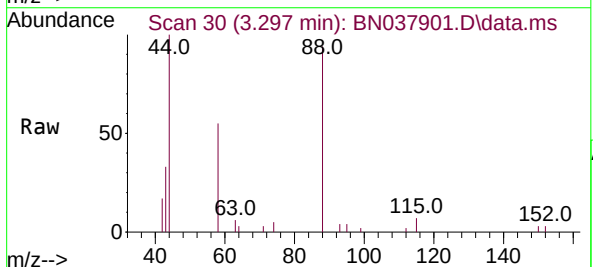
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

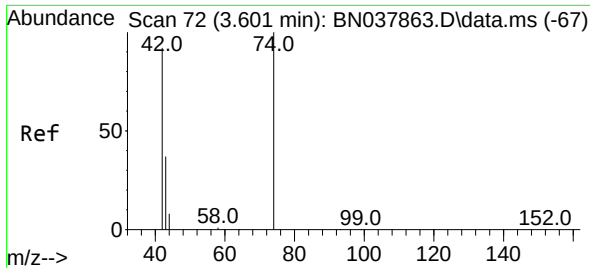
Tgt Ion:152 Resp: 7512
Ion Ratio Lower Upper
152 100
150 154.6 121.0 181.4
115 59.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion: 88 Resp: 3121
Ion Ratio Lower Upper
88 100
43 31.9 26.6 39.8
58 76.2 58.9 88.3

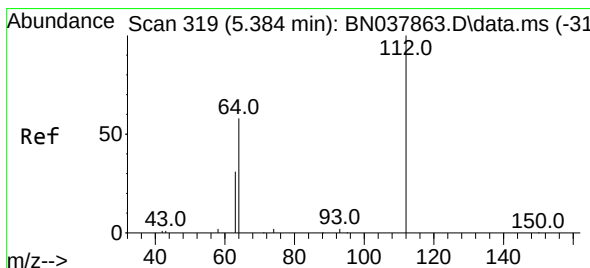
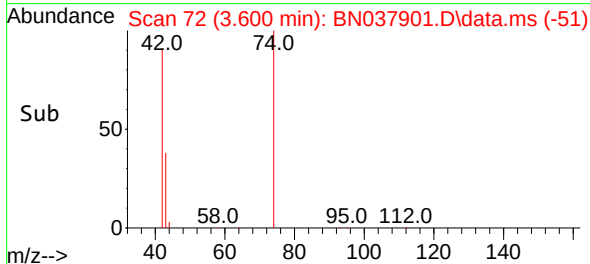
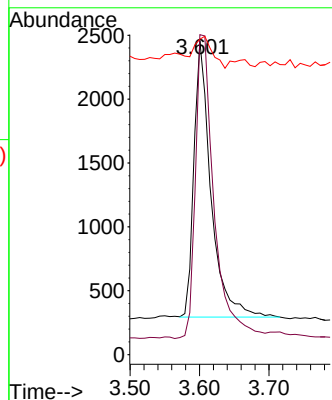
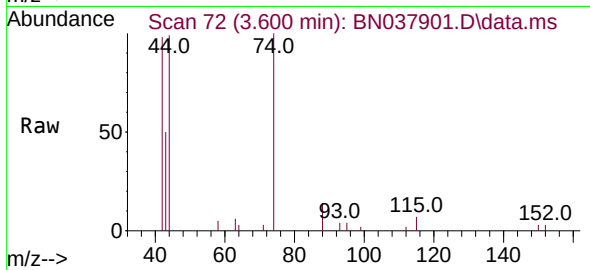




#3
n-Nitrosodimethylamine
Concen: 0.363 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

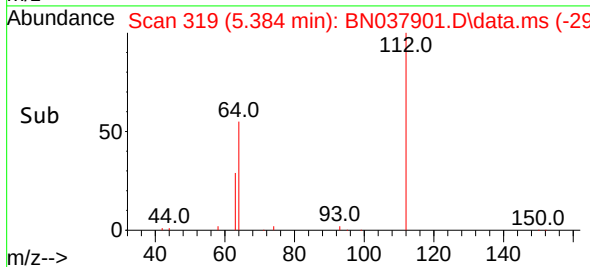
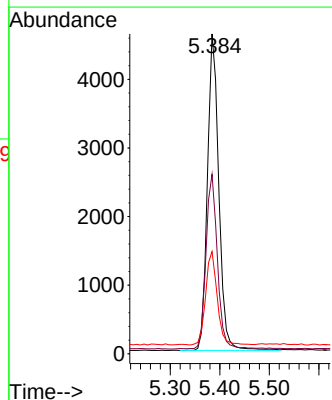
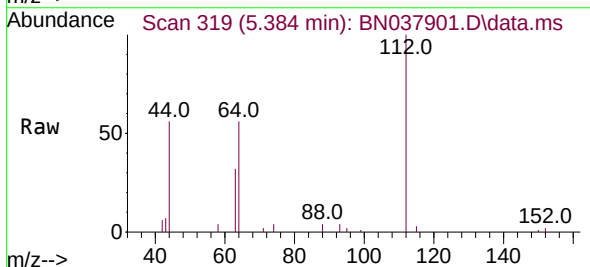
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

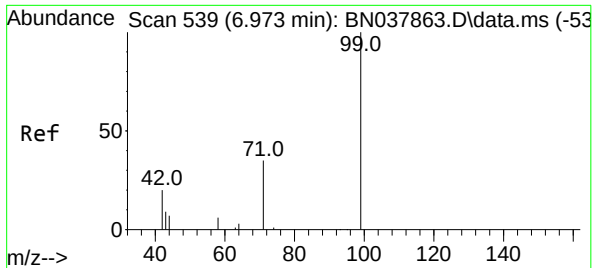
Tgt Ion: 42 Resp: 3686
Ion Ratio Lower Upper
42 100
74 121.1 93.4 140.0
44 11.4 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.430 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion: 112 Resp: 7379
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 30.0 24.9 37.3

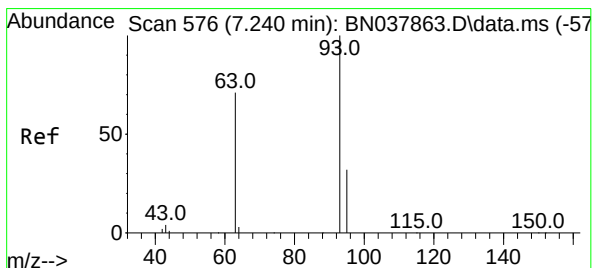
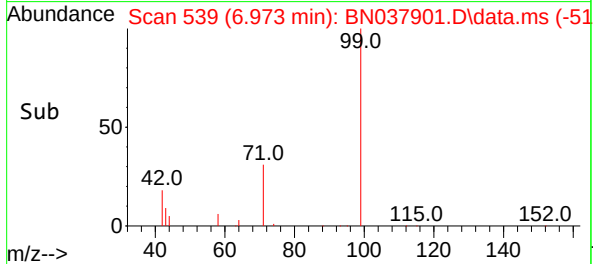
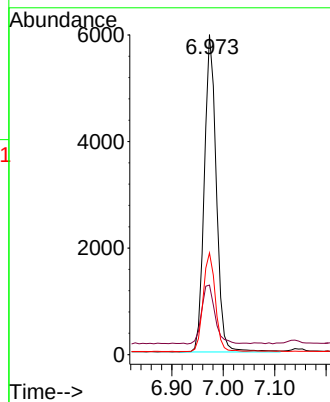
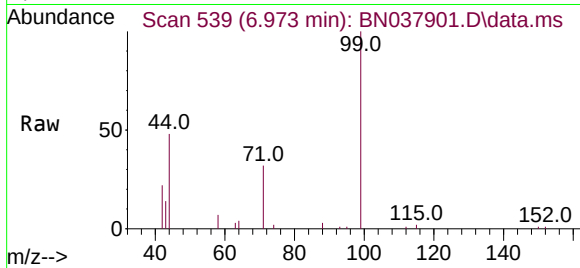




#5
Phenol-d6
Concen: 0.427 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

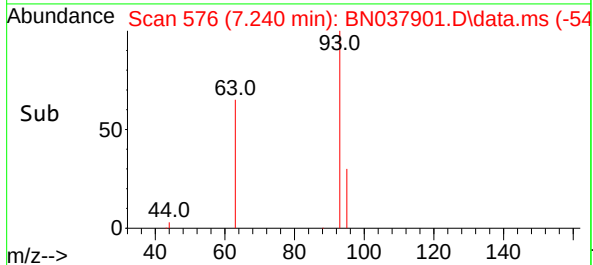
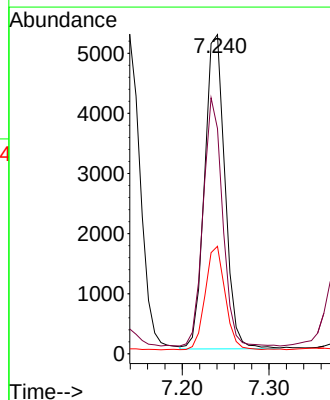
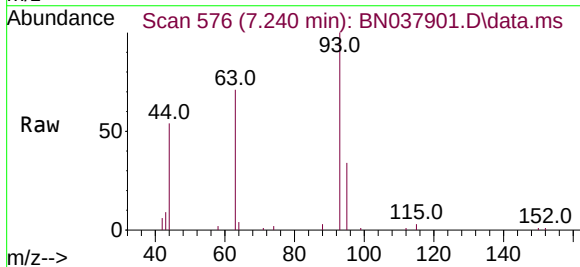
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

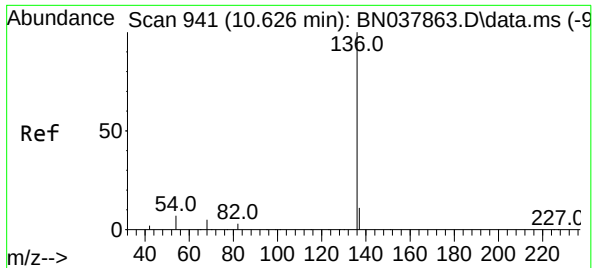
Tgt Ion:	99	Resp:	9626
Ion	Ratio	Lower	Upper
99	100		
42	20.8	17.2	25.8
71	31.7	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	93	Resp:	8515
Ion	Ratio	Lower	Upper
93	100		
63	75.0	60.1	90.1
95	32.2	25.4	38.2

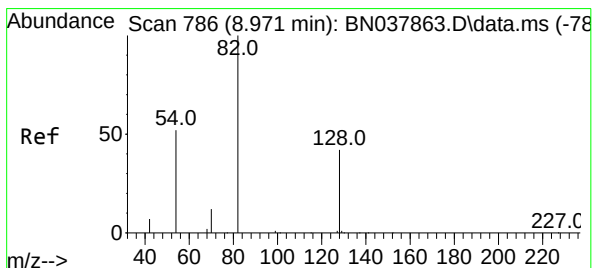
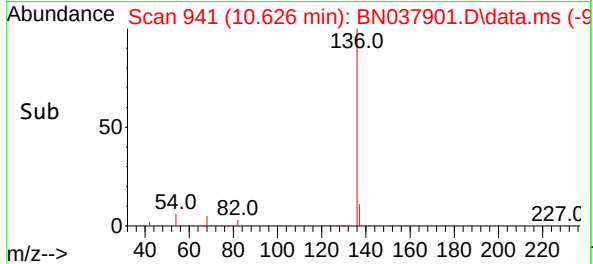
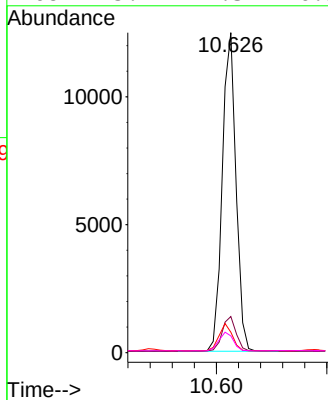
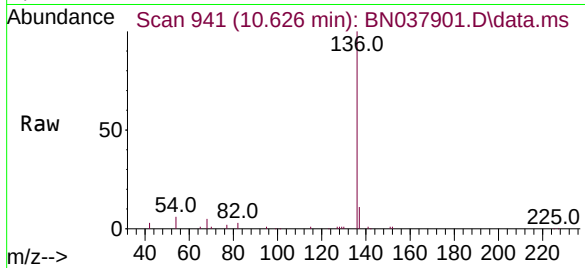




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

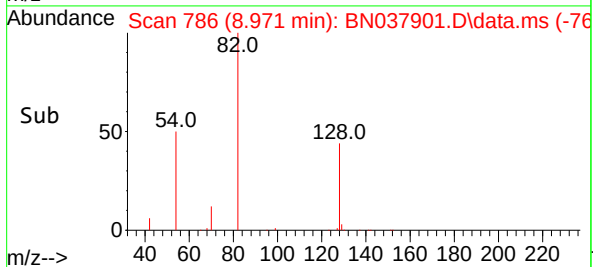
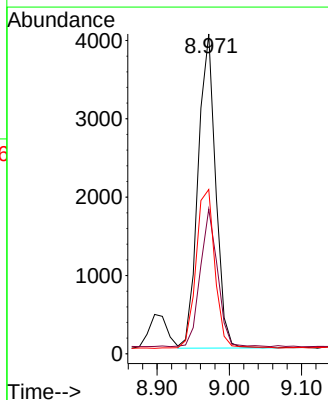
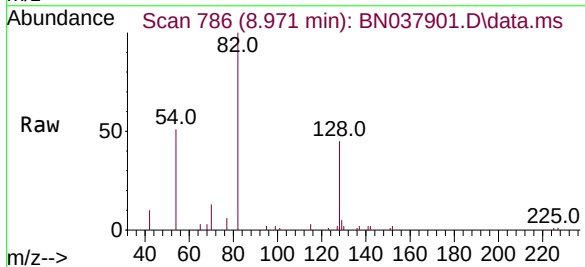
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

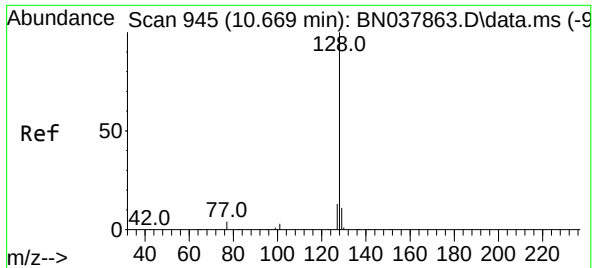
Tgt Ion:	136	Resp:	21514
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.4	5.8	8.8
68	5.2	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.411 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	82	Resp:	6744
Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.8	52.2
54	51.3	42.2	63.2

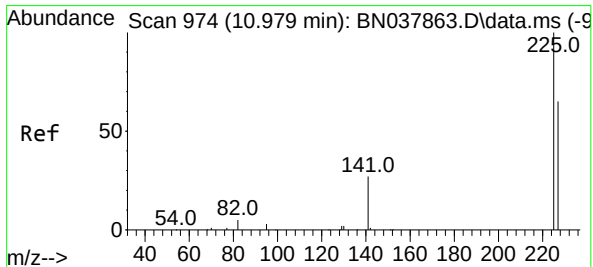
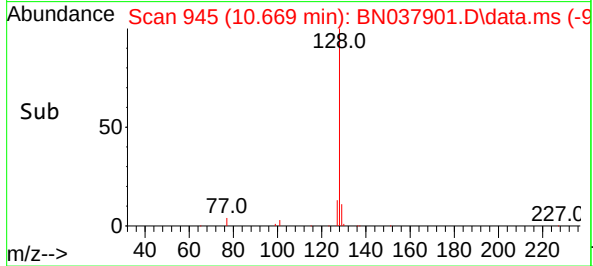
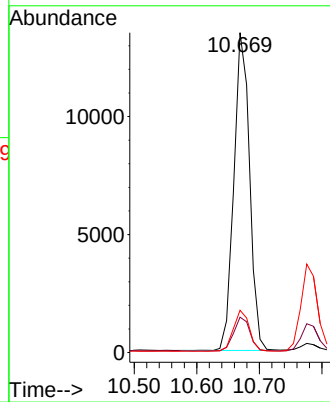
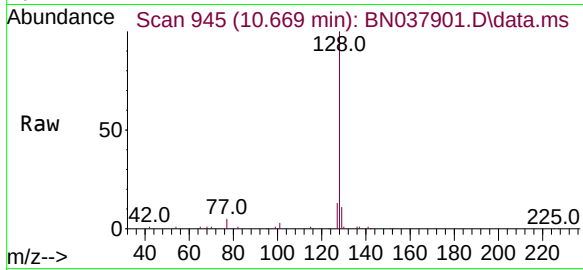




#9
Naphthalene
Concen: 0.397 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

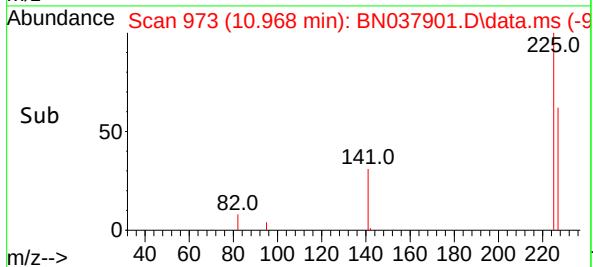
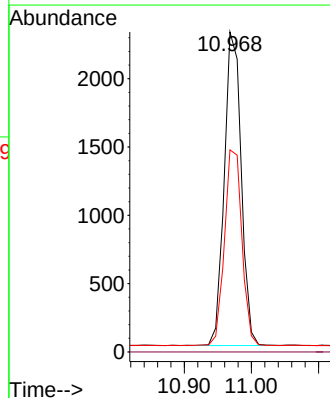
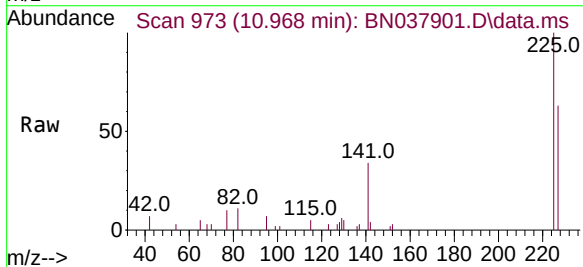
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

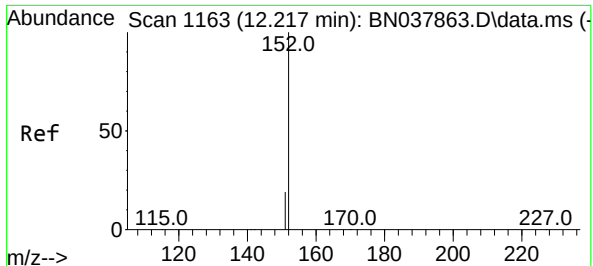
Tgt Ion:	128	Resp:	23529
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.2	13.8
127	13.2	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.398 ng
RT: 10.968 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	225	Resp:	4020
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.4	77.2

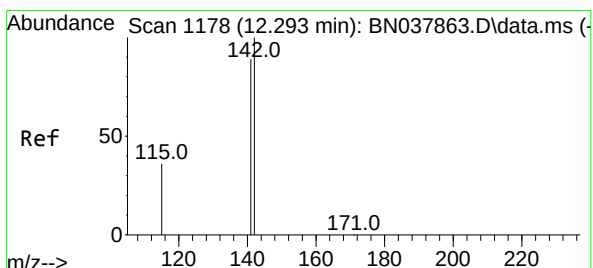
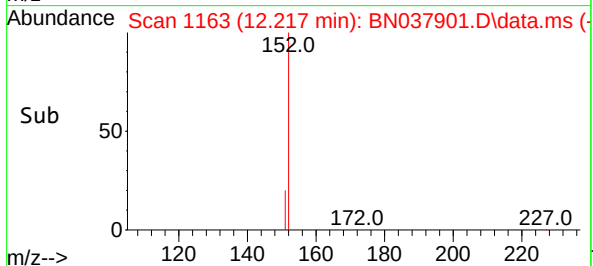
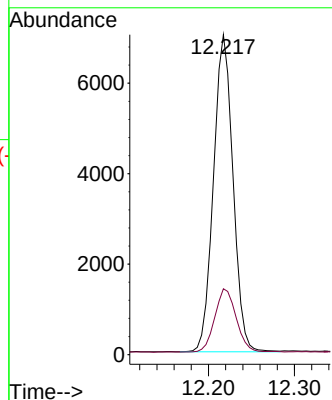
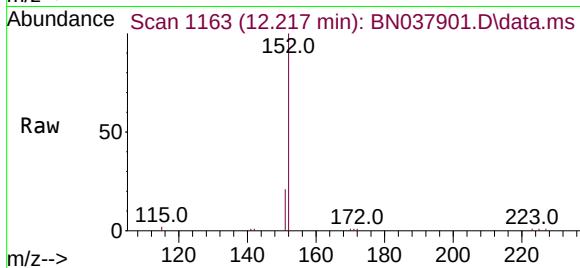




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

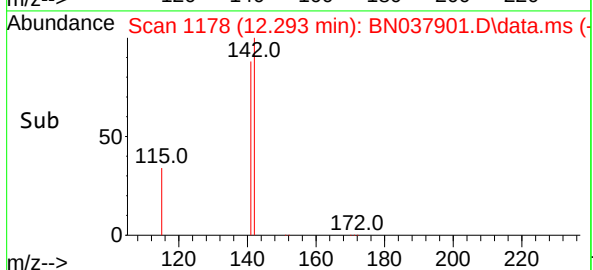
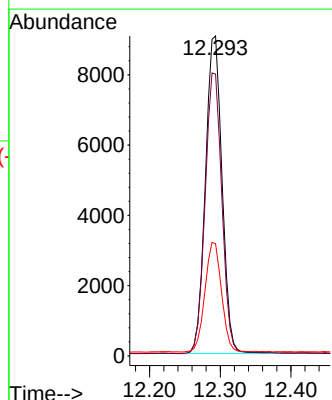
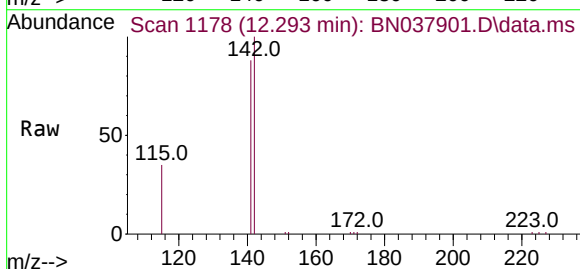
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

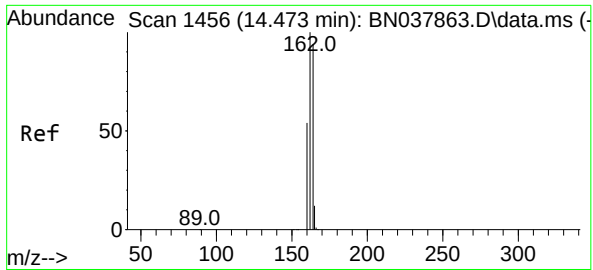
Tgt Ion:152 Resp: 11067
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:142 Resp: 14799
Ion Ratio Lower Upper
142 100
141 88.1 71.2 106.8
115 35.0 29.7 44.5

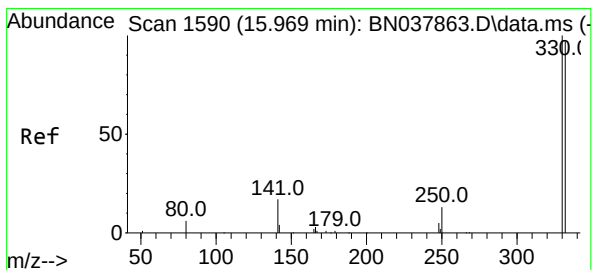
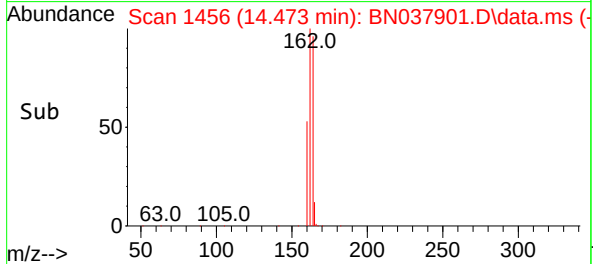
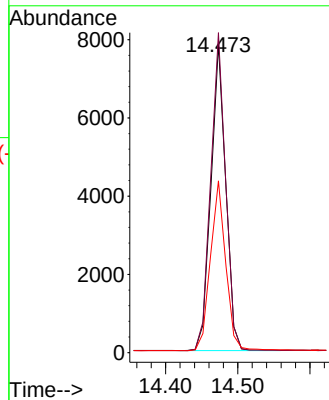
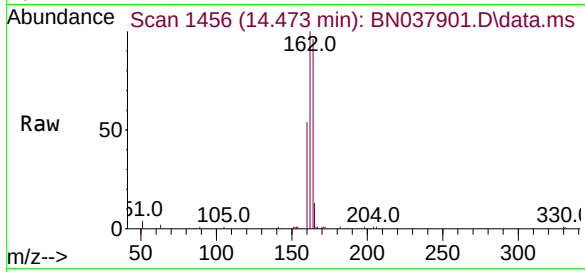




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

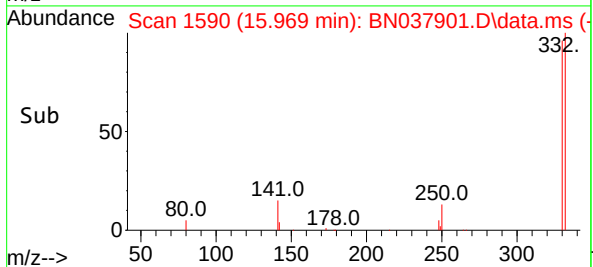
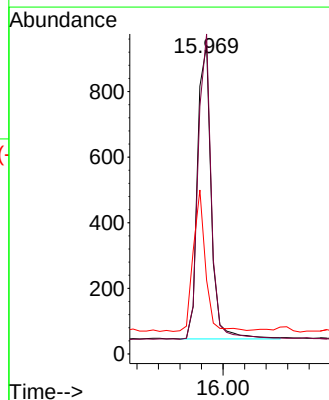
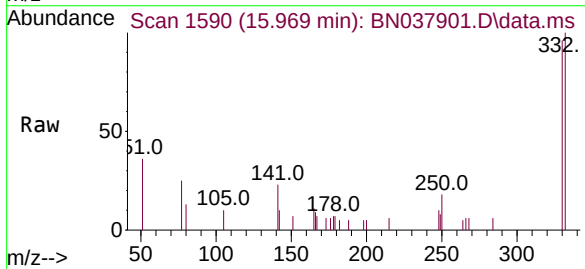
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

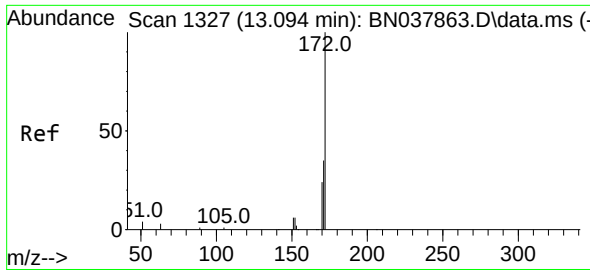
Tgt Ion:	164	Resp:	11178
Ion	Ratio	Lower	Upper
164	100		
162	103.8	84.8	127.2
160	55.8	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.374 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	330	Resp:	1585
Ion	Ratio	Lower	Upper
330	100		
332	99.7	77.2	115.8
141	42.8	37.2	55.8

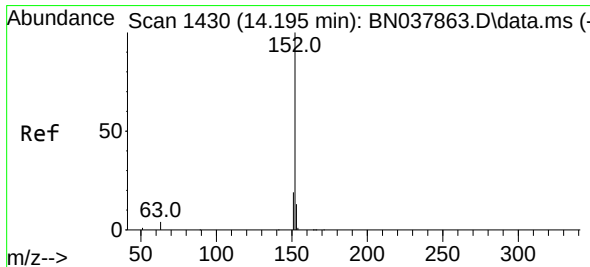
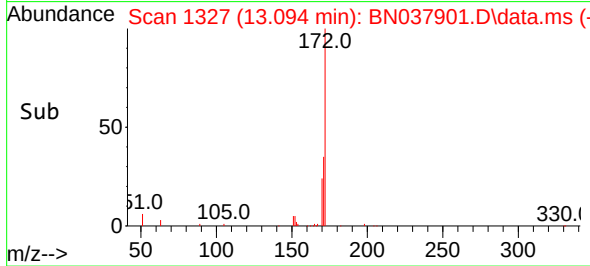
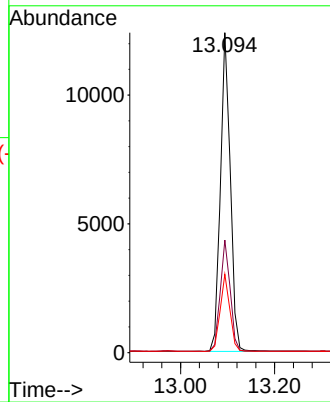
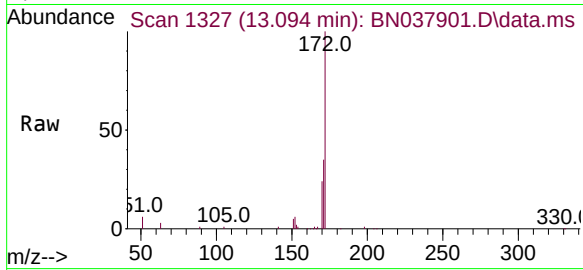




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

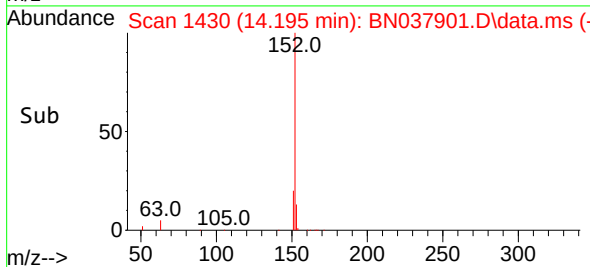
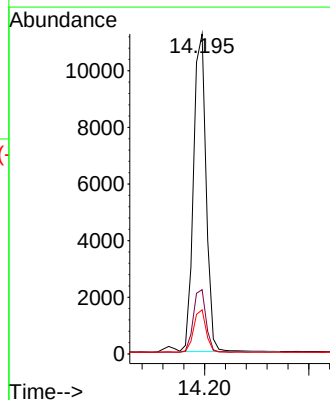
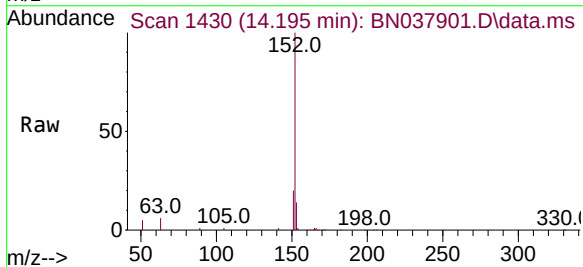
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

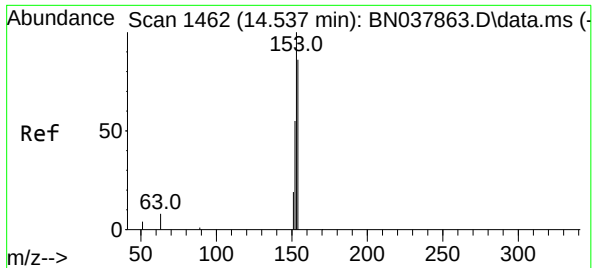
Tgt Ion:	172	Resp:	17074
Ion Ratio	Lower	Upper	
172	100		
171	35.2	28.6	43.0
170	24.5	19.7	29.5



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	152	Resp:	18759
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	13.1	10.5	15.7

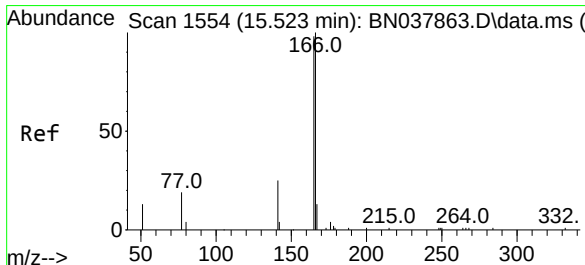
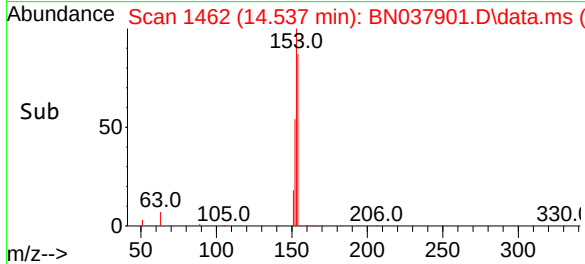
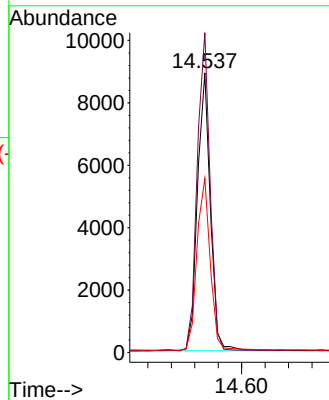
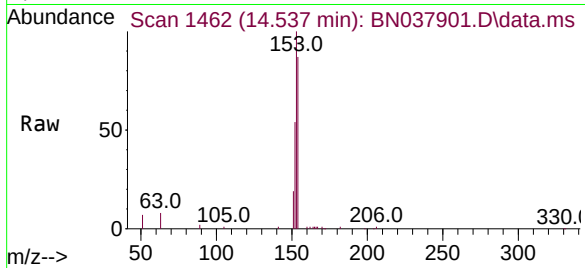




#17
Acenaphthene
Concen: 0.376 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

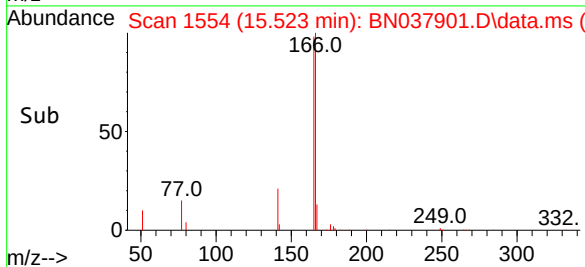
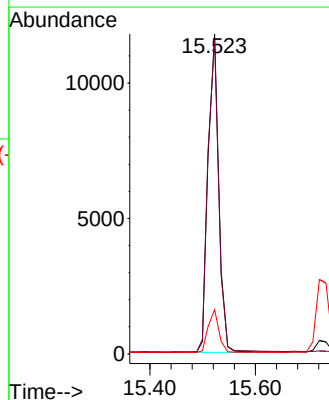
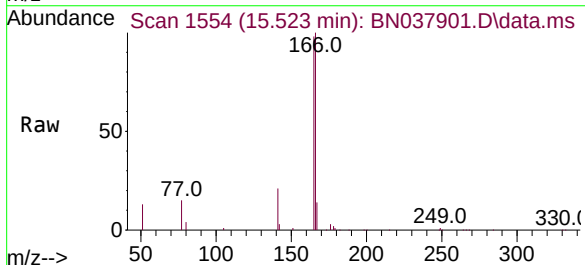
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

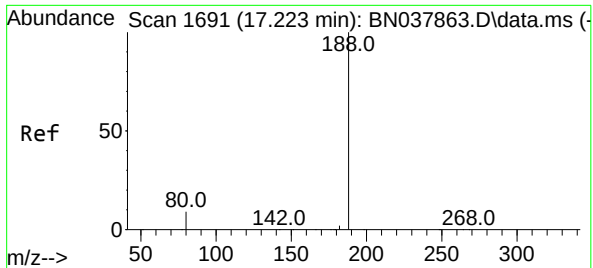
Tgt Ion:	154	Resp:	13596
Ion Ratio	Lower	Upper	
154	100		
153	113.7	90.5	135.7
152	64.0	51.8	77.8



#18
Fluorene
Concen: 0.371 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	166	Resp:	16239
Ion Ratio	Lower	Upper	
166	100		
165	98.8	79.0	118.4
167	13.1	10.6	16.0

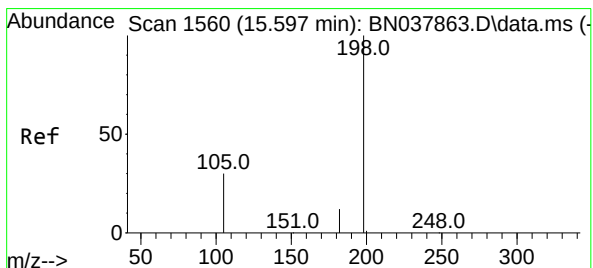
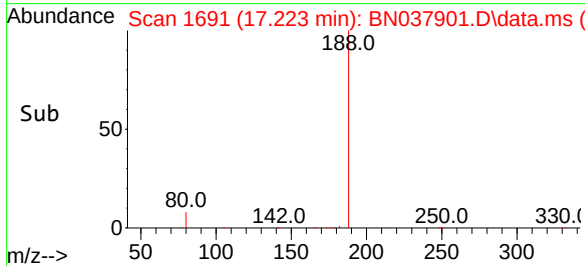
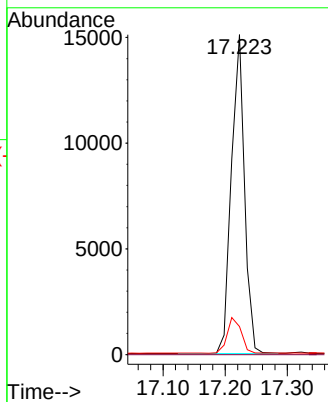
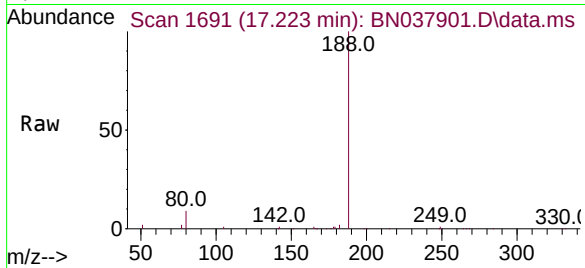




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

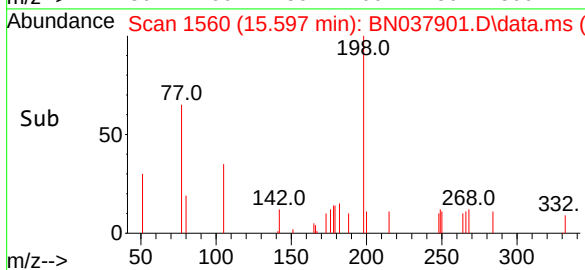
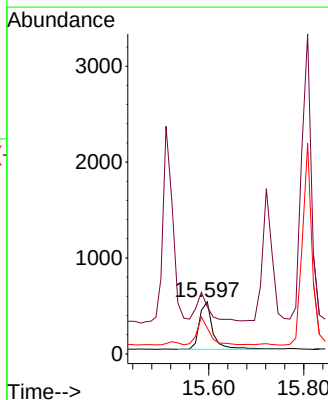
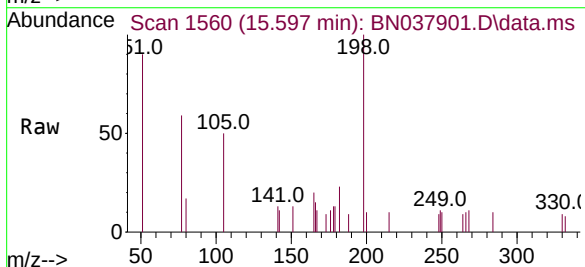
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

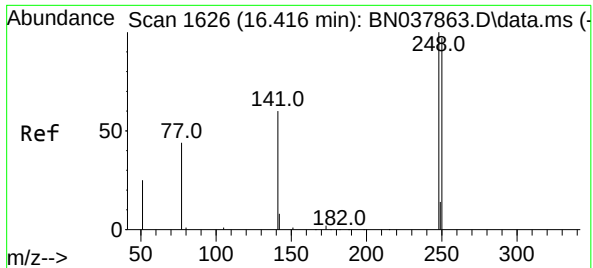
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	7.6	11.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.410 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
198	100		
51	90.3	59.1	88.7#
105	49.6	41.3	61.9

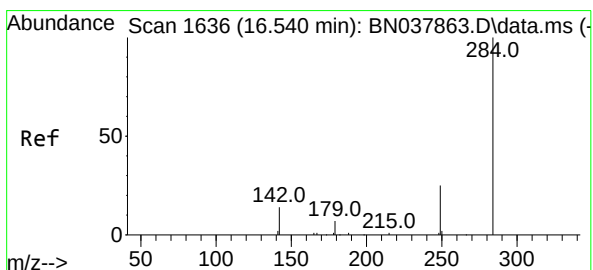
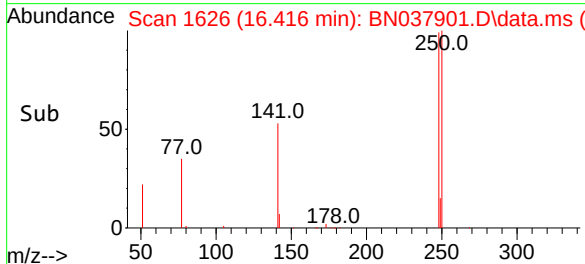
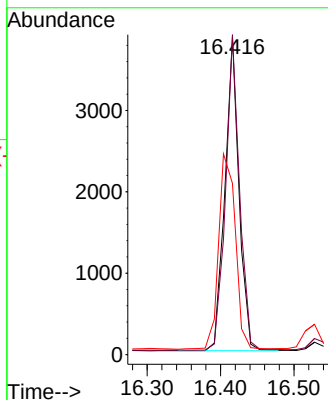
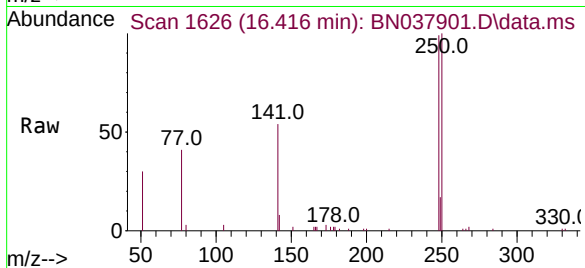




#21
4-Bromophenyl-phenylether
Concen: 0.359 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

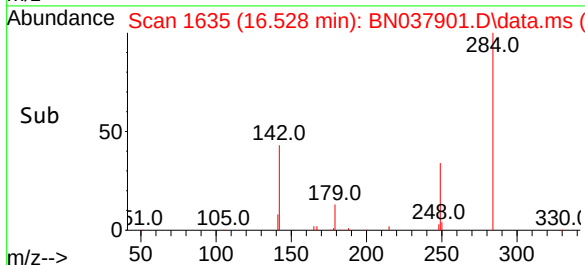
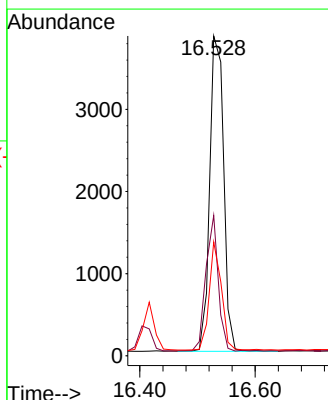
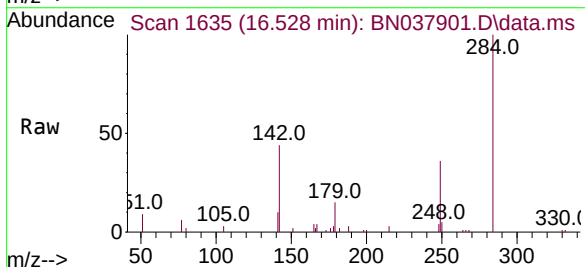
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

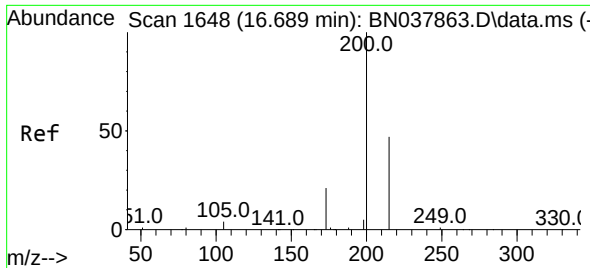
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	77.6	116.4
141	53.9	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.9	46.3
249	30.0	23.9	35.9

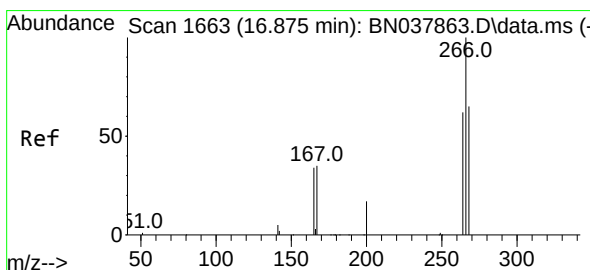
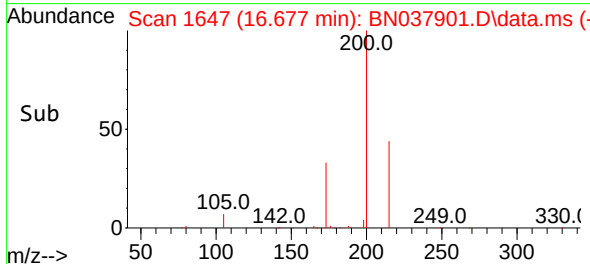
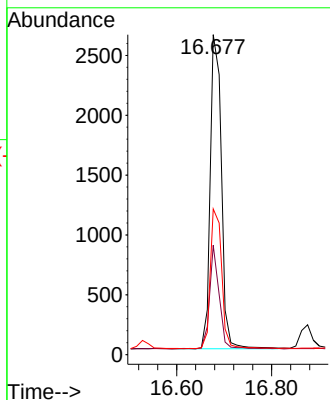
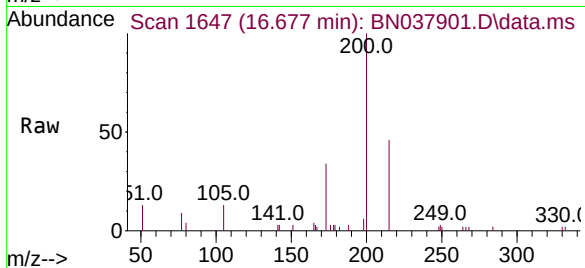




#23
Atrazine
Concen: 0.390 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

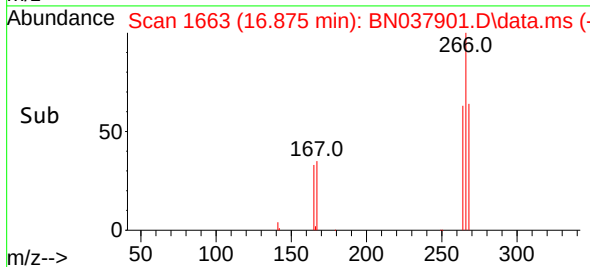
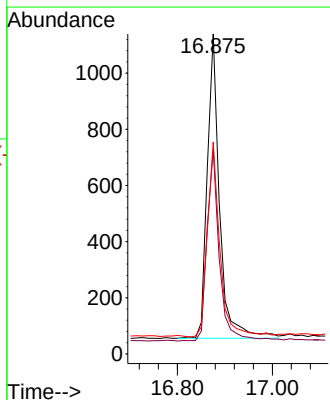
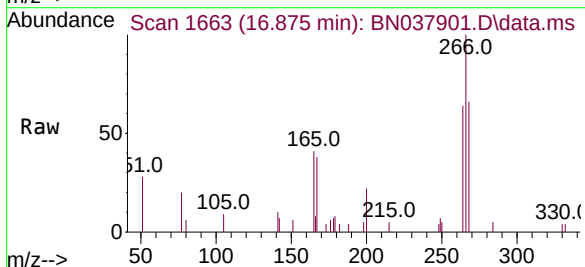
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

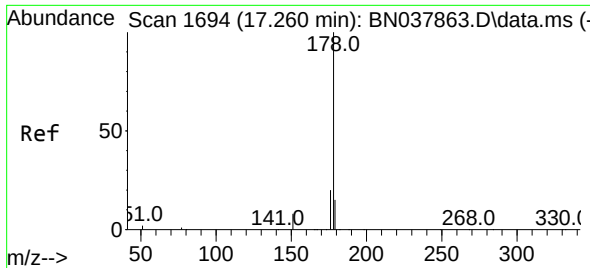
Tgt Ion	Ratio	Lower	Upper
200	100		
173	34.2	18.3	27.5#
215	45.5	38.6	58.0



#24
Pentachlorophenol
Concen: 0.326 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.9	76.3
268	65.7	54.3	81.5

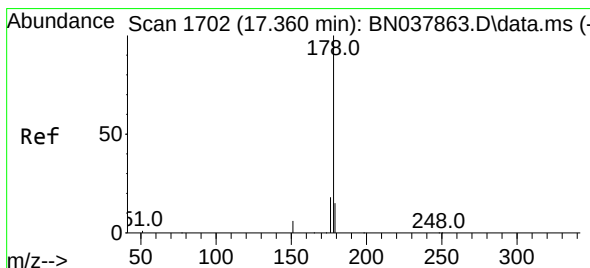
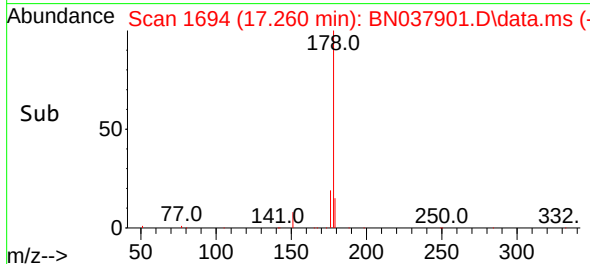
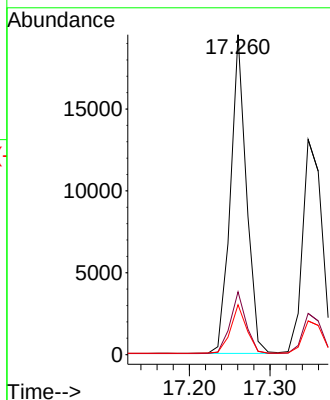
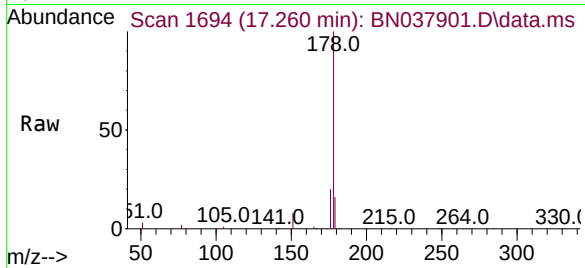




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

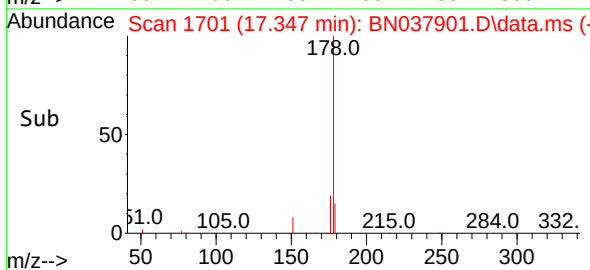
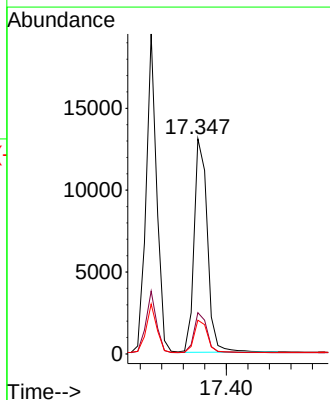
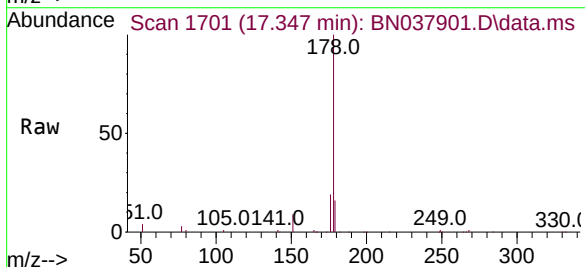
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

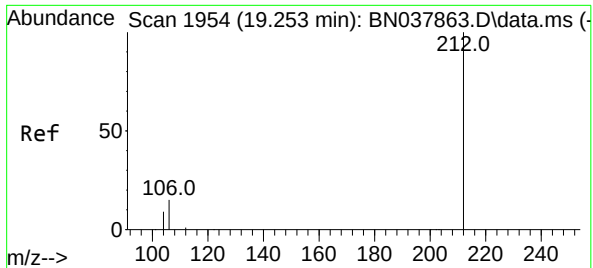
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.4	12.3	18.5



#26
Anthracene
Concen: 0.353 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.5	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.366 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

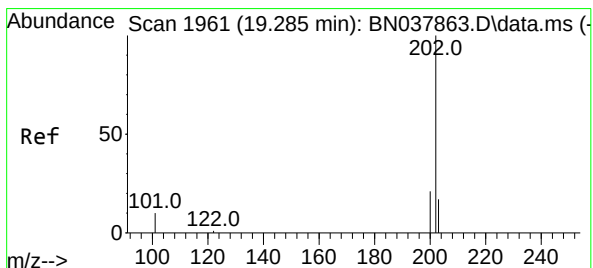
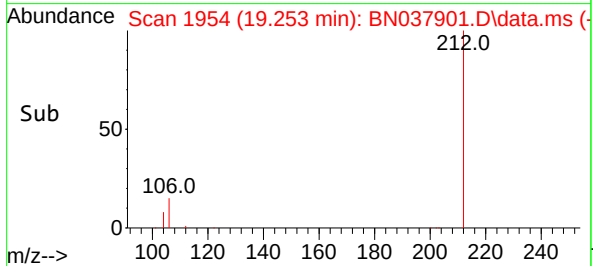
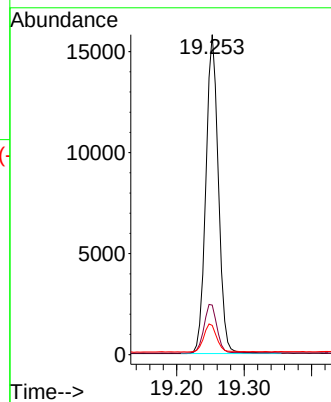
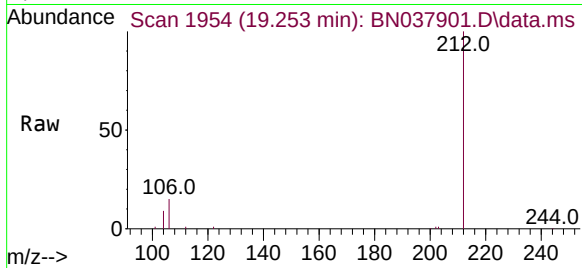
Tgt Ion:212 Resp: 20296

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

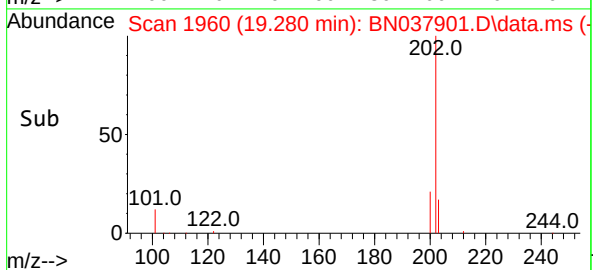
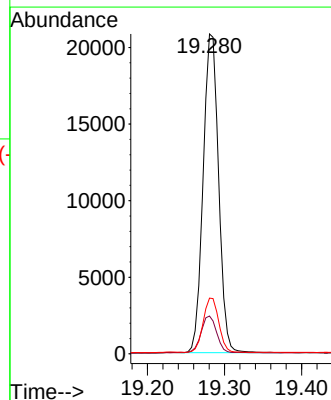
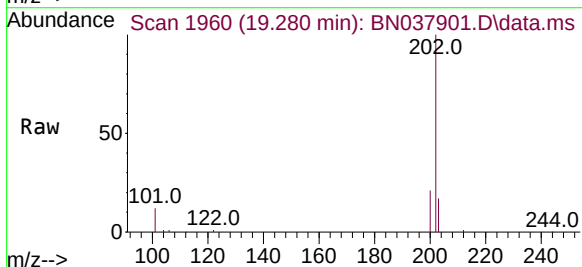
Tgt Ion:202 Resp: 28968

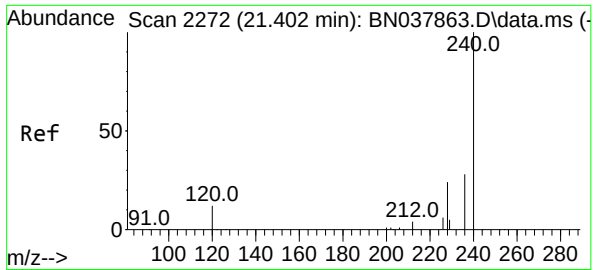
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4

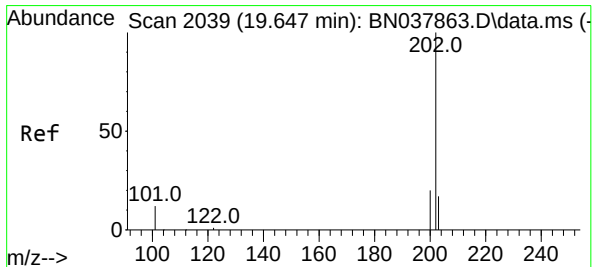
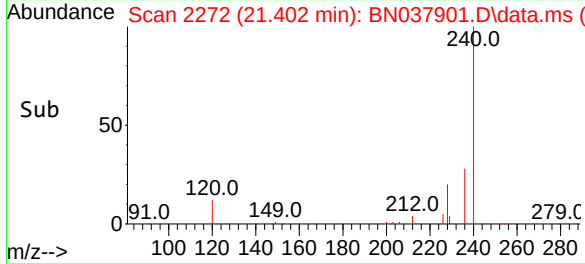
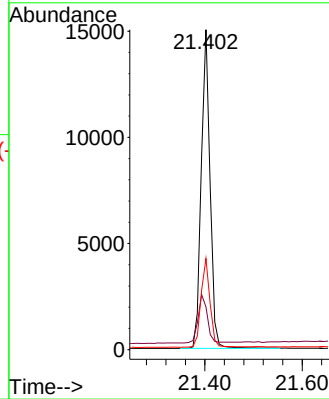
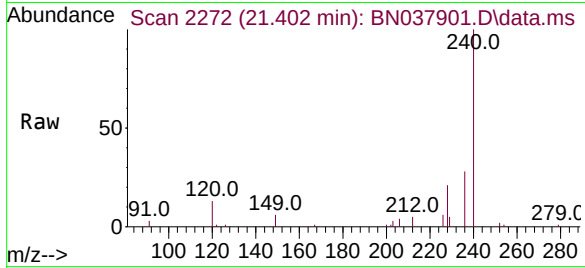




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

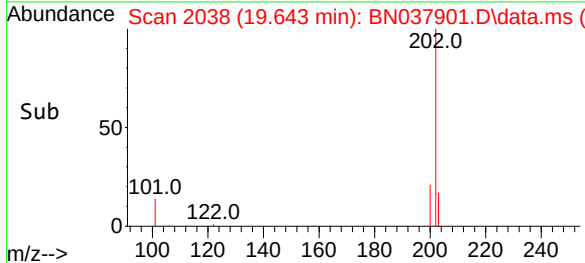
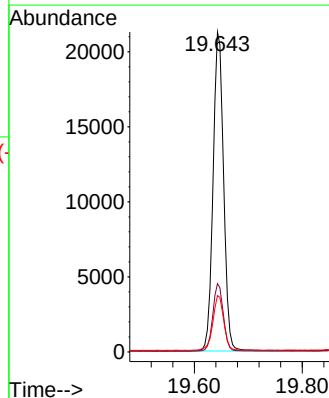
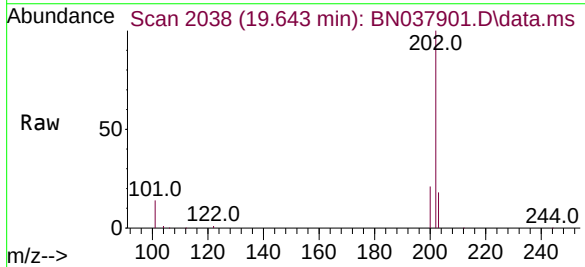
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

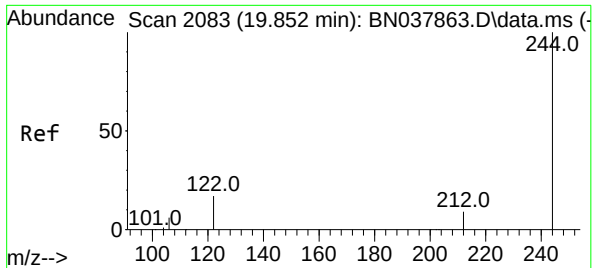
Tgt Ion:	240	Resp:	18965
Ion Ratio	Lower	Upper	
240	100		
120	13.3	11.4	17.2
236	28.5	23.0	34.6



#30
Pyrene
Concen: 0.384 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:	202	Resp:	28732
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.7	25.1
203	17.9	14.2	21.4

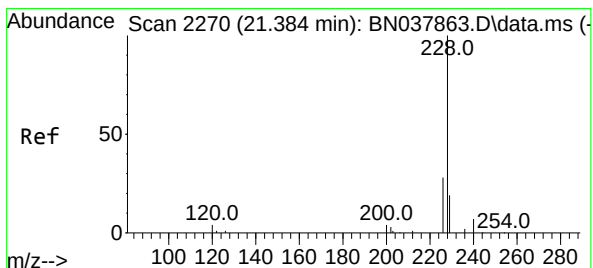
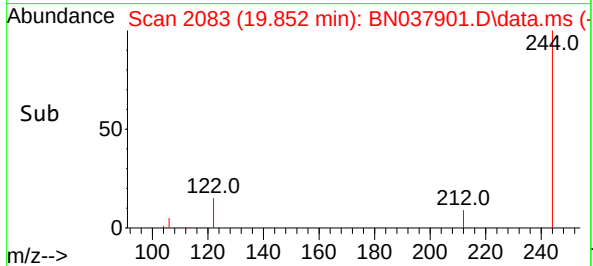
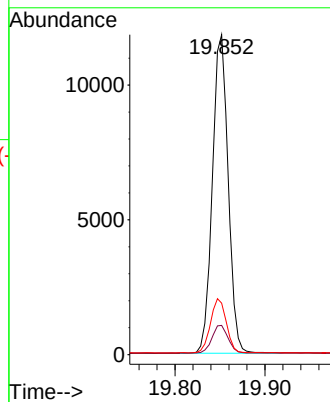
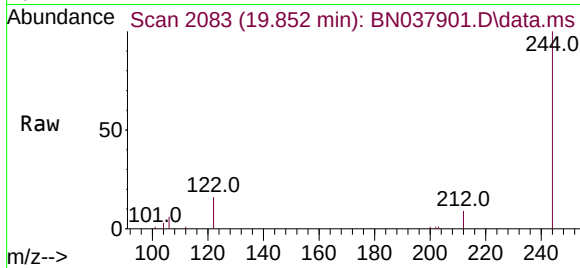




#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

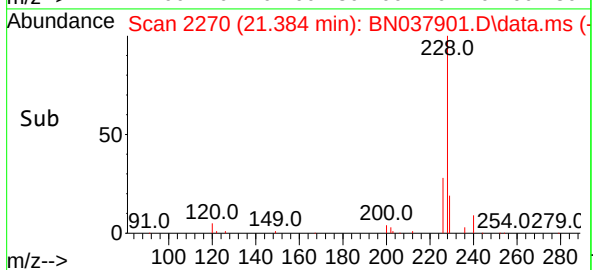
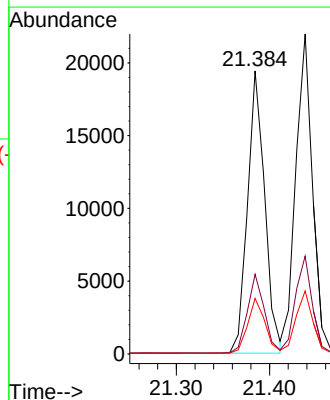
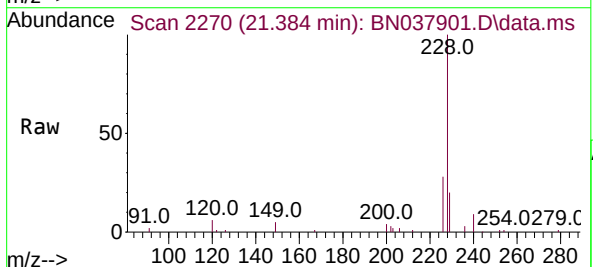
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

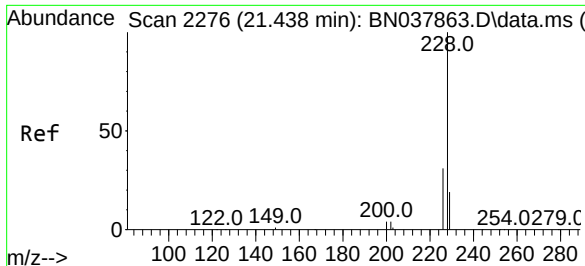
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.6	11.4
122	16.1	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.374 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	19.6	15.6	23.4

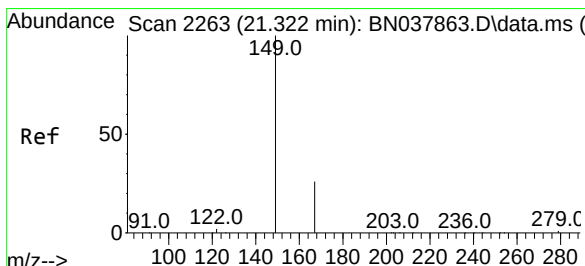
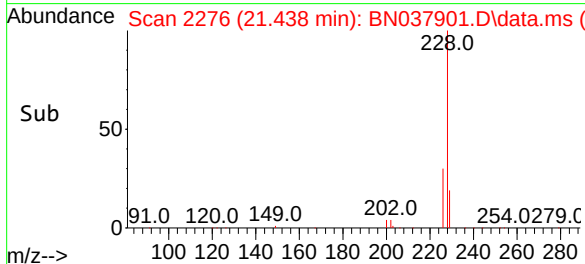
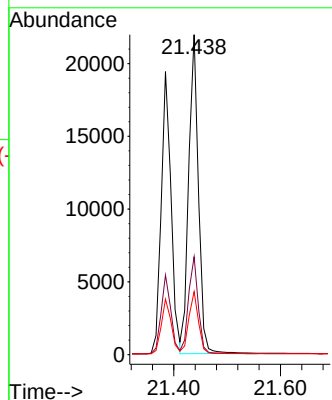
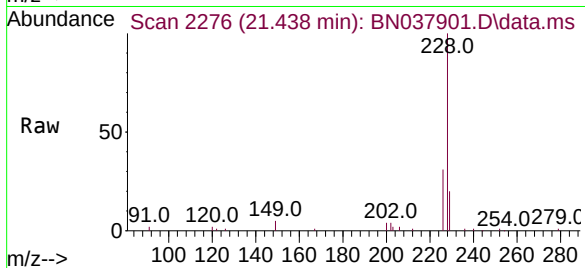




#33
Chrysene
Concen: 0.389 ng
RT: 21.438 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

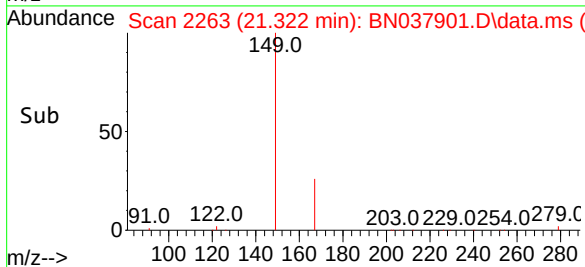
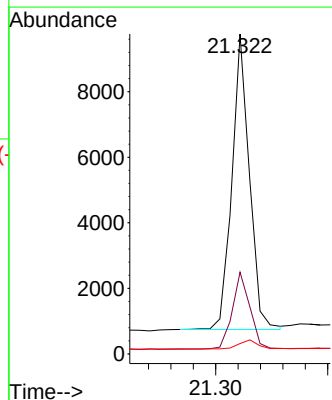
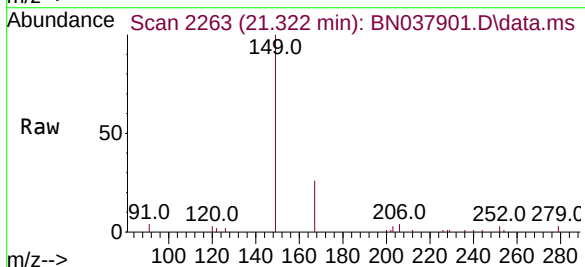
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

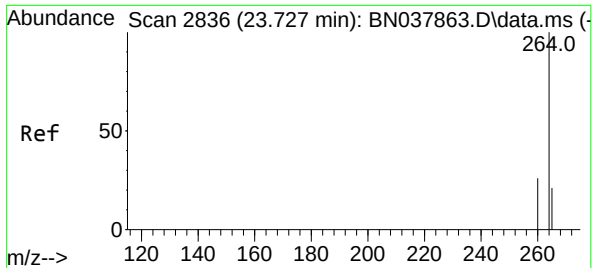
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.372 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.4	30.6
279	3.5	2.4	3.6

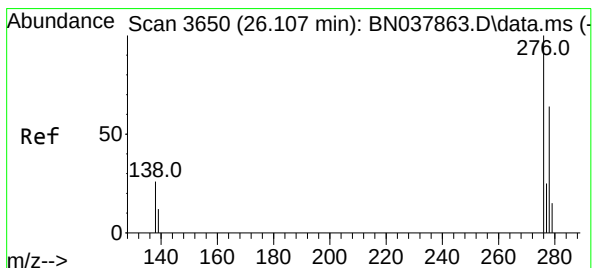
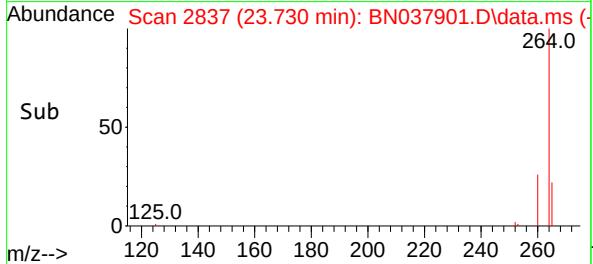
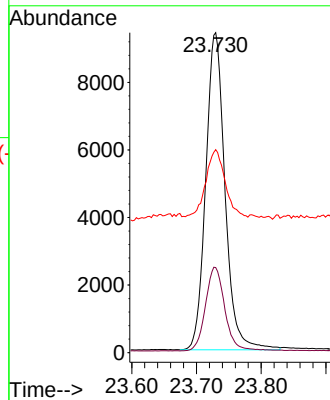
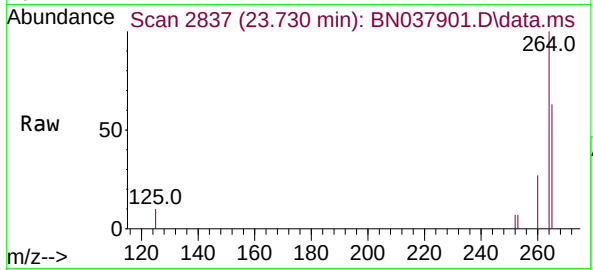




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

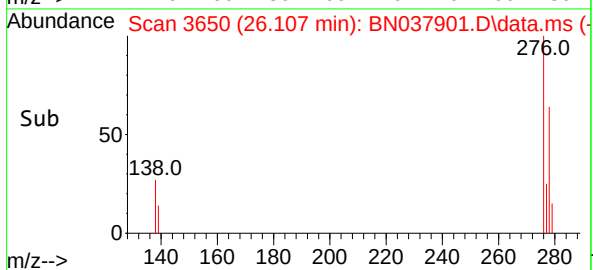
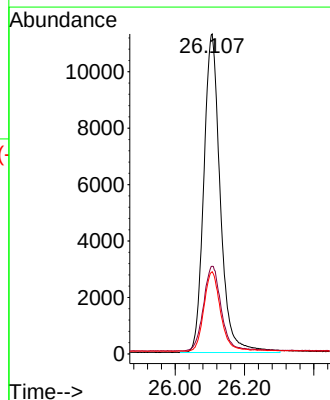
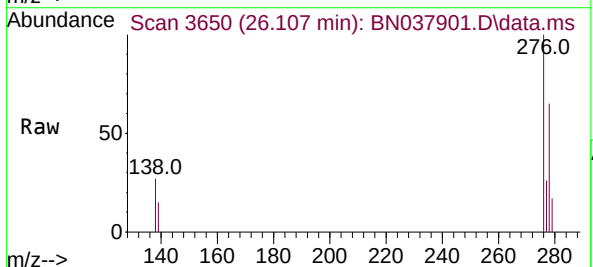
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

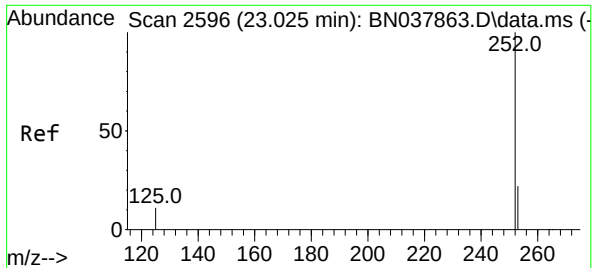
Tgt Ion:264 Resp: 19432
Ion Ratio Lower Upper
264 100
260 26.6 21.5 32.3
265 63.4 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.107 min Scan# 3650
Delta R.T. -0.000 min
Lab File: BN037901.D
Acq: 25 Sep 2025 22:31

Tgt Ion:276 Resp: 37256
Ion Ratio Lower Upper
276 100
138 28.3 21.4 32.0
277 25.2 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.369 ng

RT: 23.025 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

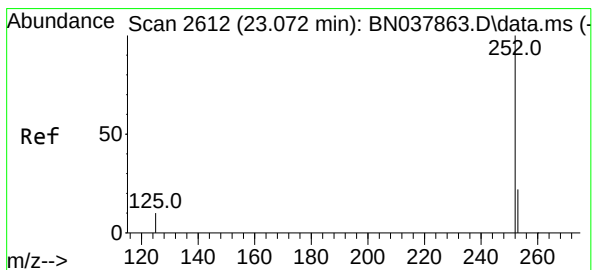
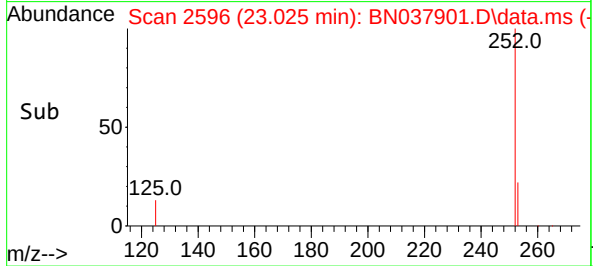
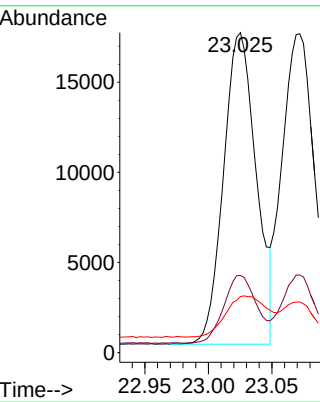
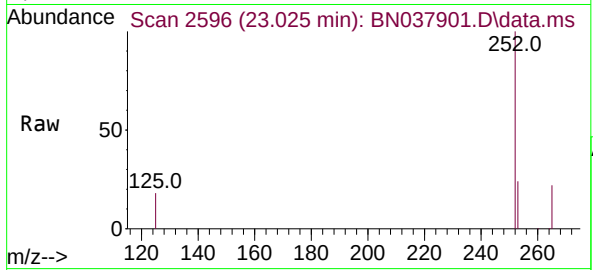
Tgt Ion:252 Resp: 30958

Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.0

125 17.5 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.367 ng

RT: 23.072 min Scan# 2612

Delta R.T. -0.000 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

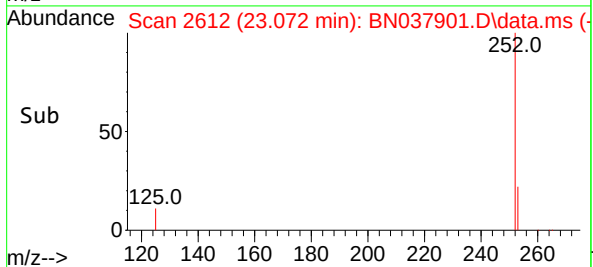
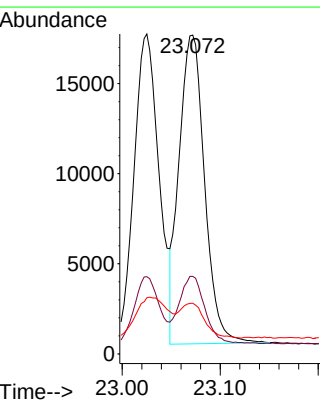
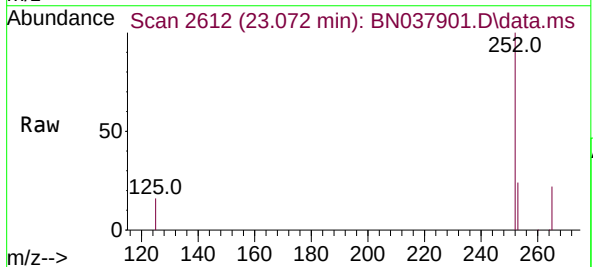
Tgt Ion:252 Resp: 30978

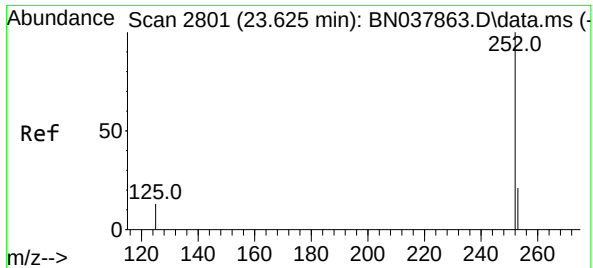
Ion Ratio Lower Upper

252 100

253 24.3 19.5 29.3

125 15.9 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

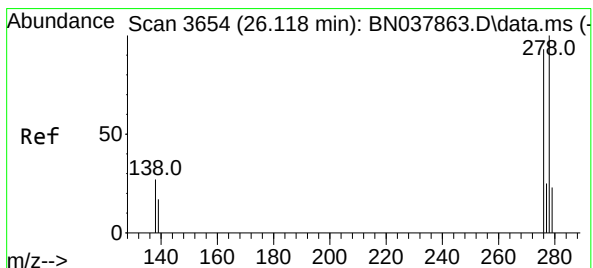
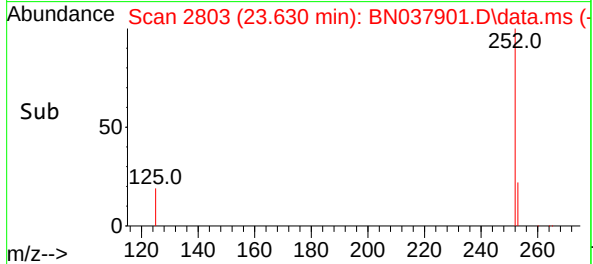
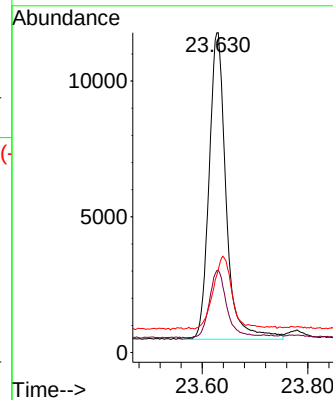
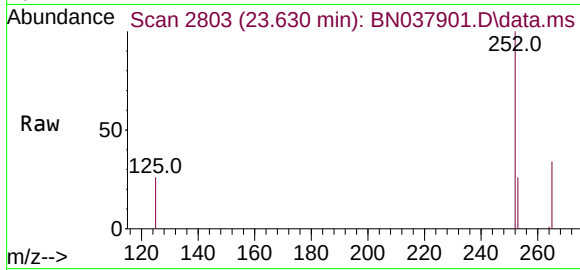
Tgt Ion:252 Resp: 25319

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 25.9 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.417 ng

RT: 26.118 min Scan# 3654

Delta R.T. -0.000 min

Lab File: BN037901.D

Acq: 25 Sep 2025 22:31

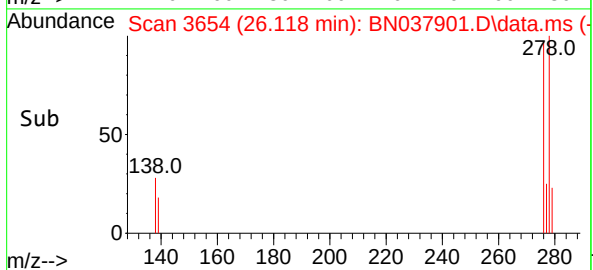
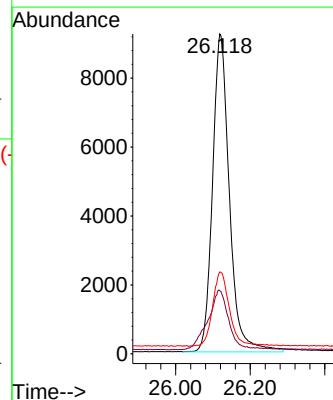
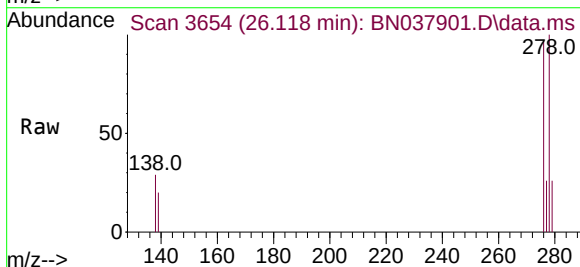
Tgt Ion:278 Resp: 28899

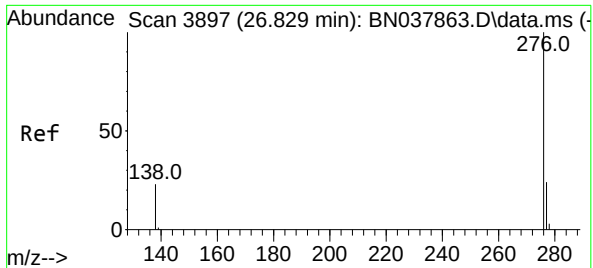
Ion Ratio Lower Upper

278 100

139 19.7 15.4 23.2

279 25.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.832 min Scan# 38

Delta R.T. 0.003 min

Lab File: BN037901.D

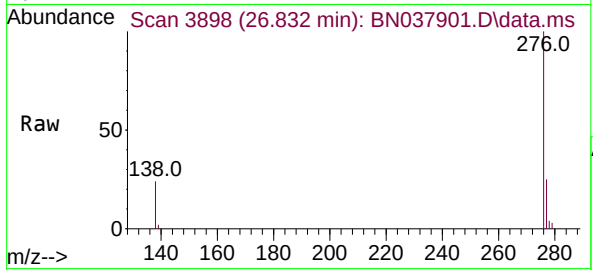
Acq: 25 Sep 2025 22:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



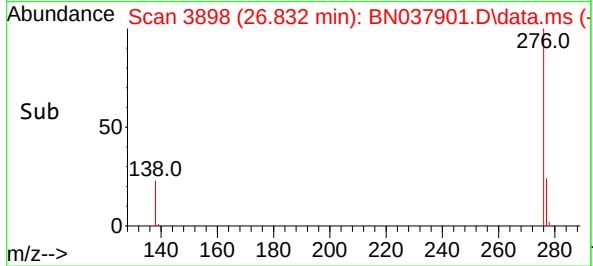
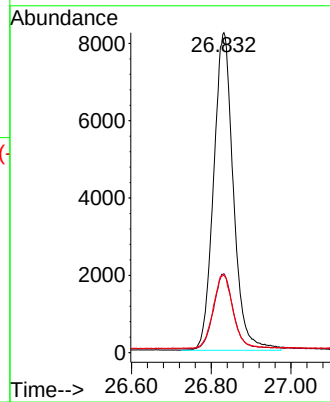
Tgt Ion:276 Resp: 28258

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	135	0.00
2	1,4-Dioxane	0.400	0.409	-2.2	136	0.00
3	n-Nitrosodimethylamine	0.400	0.363	9.3	128	0.00
4 S	2-Fluorophenol	0.400	0.430	-7.5	154	0.00
5 S	Phenol-d6	0.400	0.427	-6.7	154	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	141	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	136	0.00
8 S	Nitrobenzene-d5	0.400	0.411	-2.7	148	0.00
9	Naphthalene	0.400	0.397	0.8	142	0.00
10	Hexachlorobutadiene	0.400	0.398	0.5	140	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	140	0.00
12	2-Methylnaphthalene	0.400	0.382	4.5	140	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	136	0.00
14 S	2,4,6-Tribromophenol	0.400	0.374	6.5	142	0.00
15 S	2-Fluorobiphenyl	0.400	0.373	6.8	133	0.00
16	Acenaphthylene	0.400	0.370	7.5	137	0.00
17	Acenaphthene	0.400	0.376	6.0	138	0.00
18	Fluorene	0.400	0.371	7.3	136	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	138	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	140	0.00
21	4-Bromophenyl-phenylether	0.400	0.359	10.3	132	0.00
22	Hexachlorobenzene	0.400	0.371	7.3	133	-0.01
23	Atrazine	0.400	0.390	2.5	156	-0.01
24	Pentachlorophenol	0.400	0.326	18.5	133	0.00
25	Phenanthrene	0.400	0.368	8.0	136	0.00
26	Anthracene	0.400	0.353	11.8	136	-0.01
27 SURR	Fluoranthene-d10	0.400	0.366	8.5	144	0.00
28	Fluoranthene	0.400	0.362	9.5	139	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	140	0.00
30	Pyrene	0.400	0.384	4.0	139	0.00
31 S	Terphenyl-d14	0.400	0.382	4.5	141	0.00
32	Benzo(a)anthracene	0.400	0.374	6.5	141	0.00
33	Chrysene	0.400	0.389	2.8	140	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.372	7.0	148	0.00
35 I	Perylene-d12	0.400	0.400	0.0	154	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.420	-5.0	179	0.00
37	Benzo(b)fluoranthene	0.400	0.369	7.8	150	0.00
38	Benzo(k)fluoranthene	0.400	0.367	8.3	154	0.00
39 C	Benzo(a)pyrene	0.400	0.382	4.5	164	0.00
40	Dibenzo(a,h)anthracene	0.400	0.417	-4.2	176	0.00
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	160	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037901.D
Acq On : 25 Sep 2025 22:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 23:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	135	0.00
2	1,4-Dioxane	0.406	0.415	-2.2	136	0.00
3	n-Nitrosodimethylamine	0.540	0.491	9.1	128	0.00
4 S	2-Fluorophenol	0.913	0.982	-7.6	154#	0.00
5 S	Phenol-d6	1.199	1.281	-6.8	154#	0.00
6	bis(2-Chloroethyl)ether	1.113	1.134	-1.9	141	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	136	0.00
8 S	Nitrobenzene-d5	0.305	0.313	-2.6	148	0.00
9	Naphthalene	1.102	1.094	0.7	142	0.00
10	Hexachlorobutadiene	0.188	0.187	0.5	140	-0.01
11 SURR	2-Methylnaphthalene-d10	0.556	0.514	7.6	140	0.00
12	2-Methylnaphthalene	0.720	0.688	4.4	140	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	136	0.00
14 S	2,4,6-Tribromophenol	0.152	0.142	6.6	142	0.00
15 S	2-Fluorobiphenyl	1.638	1.527	6.8	133	0.00
16	Acenaphthylene	1.816	1.678	7.6	137	0.00
17	Acenaphthene	1.294	1.216	6.0	138	0.00
18	Fluorene	1.565	1.453	7.2	136	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.044	22.8	140	0.00
21	4-Bromophenyl-phenylether	0.261	0.234	10.3	132	0.00
22	Hexachlorobenzene	0.316	0.293	7.3	133	-0.01
23	Atrazine	0.199	0.194	2.5	156#	-0.01
24	Pentachlorophenol	0.108	0.088	18.5	133	0.00
25	Phenanthrene	1.316	1.211	8.0	136	0.00
26	Anthracene	1.142	1.009	11.6	136	-0.01
27 SURR	Fluoranthene-d10	1.006	0.920	8.5	144	0.00
28	Fluoranthene	1.450	1.313	9.4	139	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	140	0.00
30	Pyrene	1.579	1.515	4.1	139	0.00
31 S	Terphenyl-d14	0.797	0.761	4.5	141	0.00
32	Benzo(a)anthracene	1.398	1.307	6.5	141	0.00
33	Chrysene	1.512	1.469	2.8	140	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.515	6.9	148	0.00
35 I	Perylene-d12	1.000	1.000	0.0	154#	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.917	-4.9	179#	0.00
37	Benzo(b)fluoranthene	1.725	1.593	7.7	150#	0.00
38	Benzo(k)fluoranthene	1.736	1.594	8.2	154#	0.00
39 C	Benzo(a)pyrene	1.364	1.303	4.5	164#	0.00
40	Dibenzo(a,h)anthracene	1.427	1.487	-4.2	176#	0.00
41	Benzo(g,h,i)perylene	1.499	1.454	3.0	160#	0.00

(#) = Out of Range

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



QC SAMPLE DATA

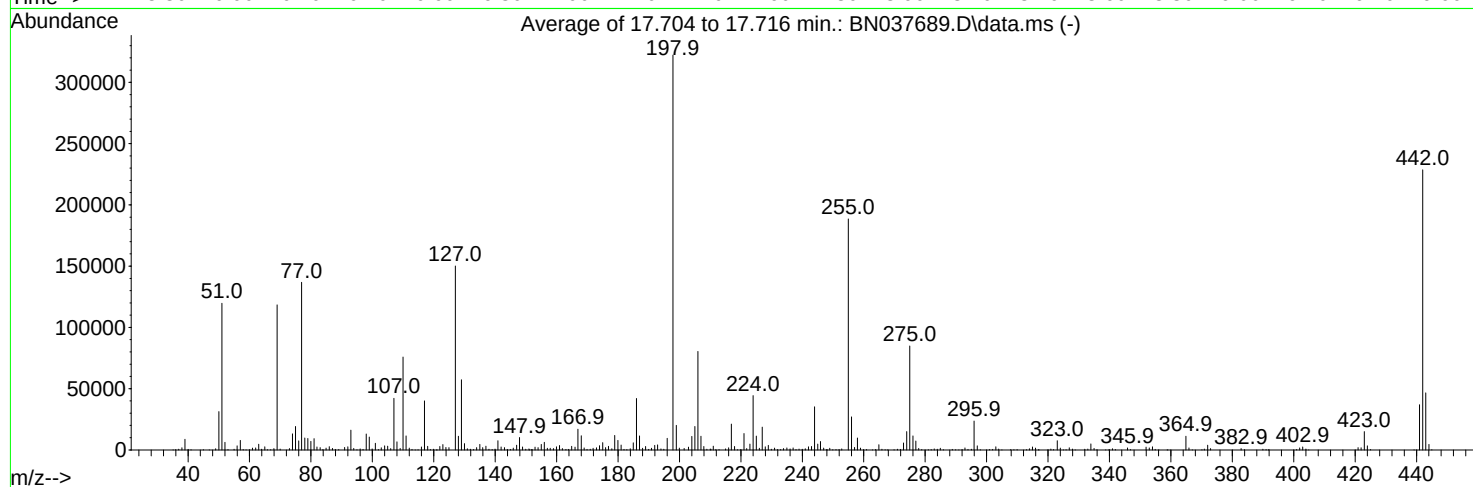
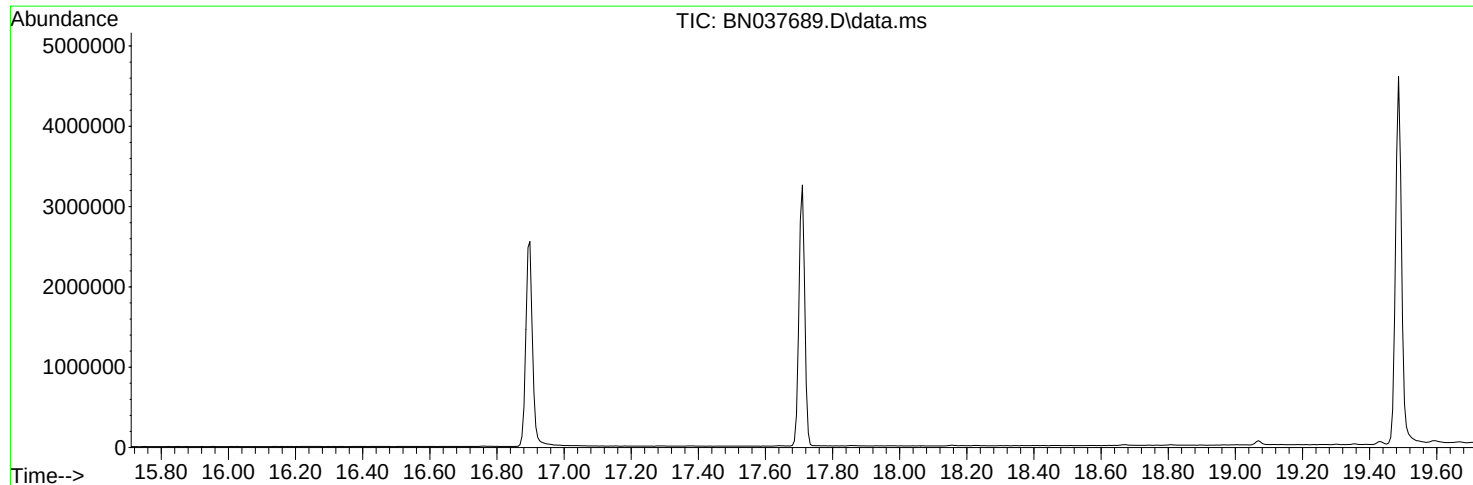
- 1
- 2
- 3
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- 10
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- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



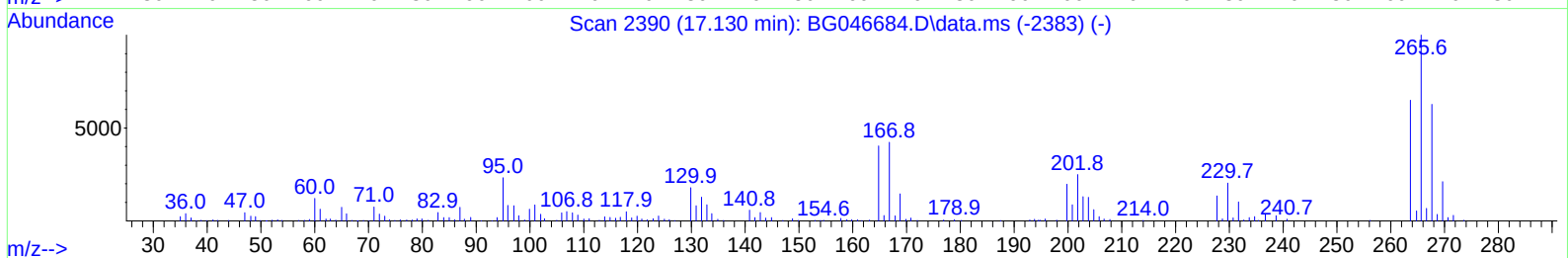
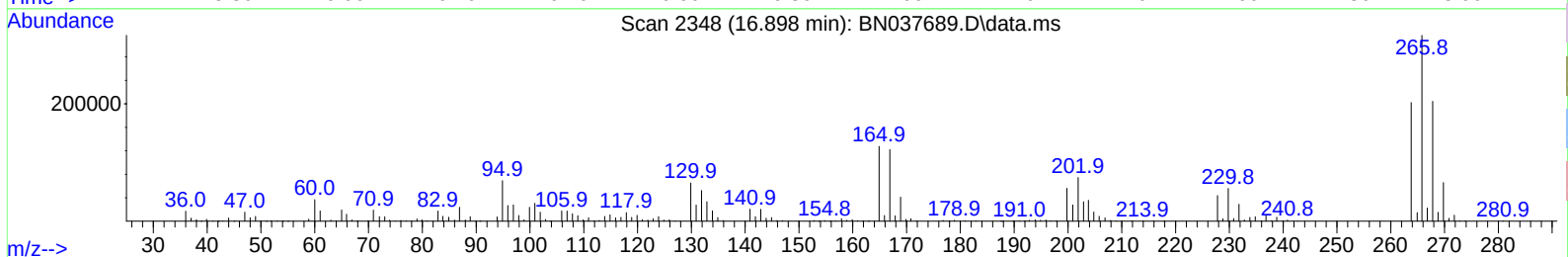
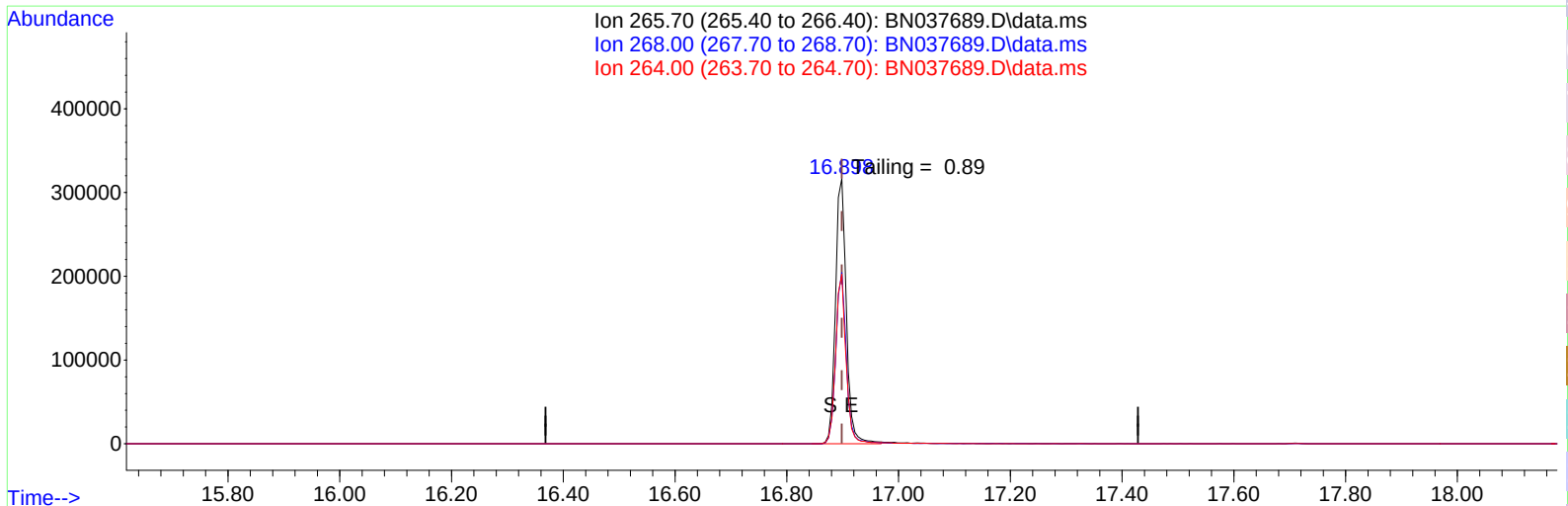
AutoFind: Scans 2485, 2486, 2487; Background Corrected with Scan 2478

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.0	1148	PASS
69	69	100	100	100.0	118397	PASS
70	69	0.00	2	0.6	697	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	322261	PASS
199	198	5	9	6.2	20092	PASS
365	198	1	100	3.5	11183	PASS
441	443	0.01	150	79.2	36909	PASS
442	442	100	100	100.0	228651	PASS
443	442	15	24	20.4	46619	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration



TIC: BN037689.D\data.ms

(70) Pentachlorophenol (C)

16.898min (0.000) 277.63 ng

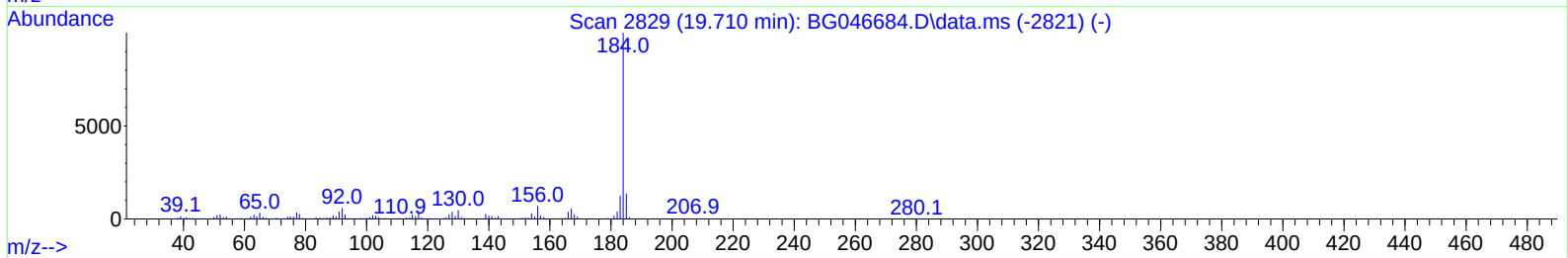
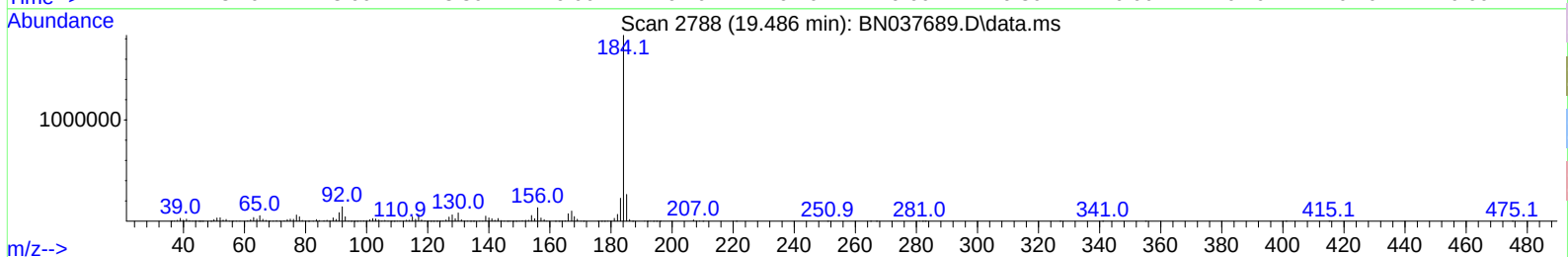
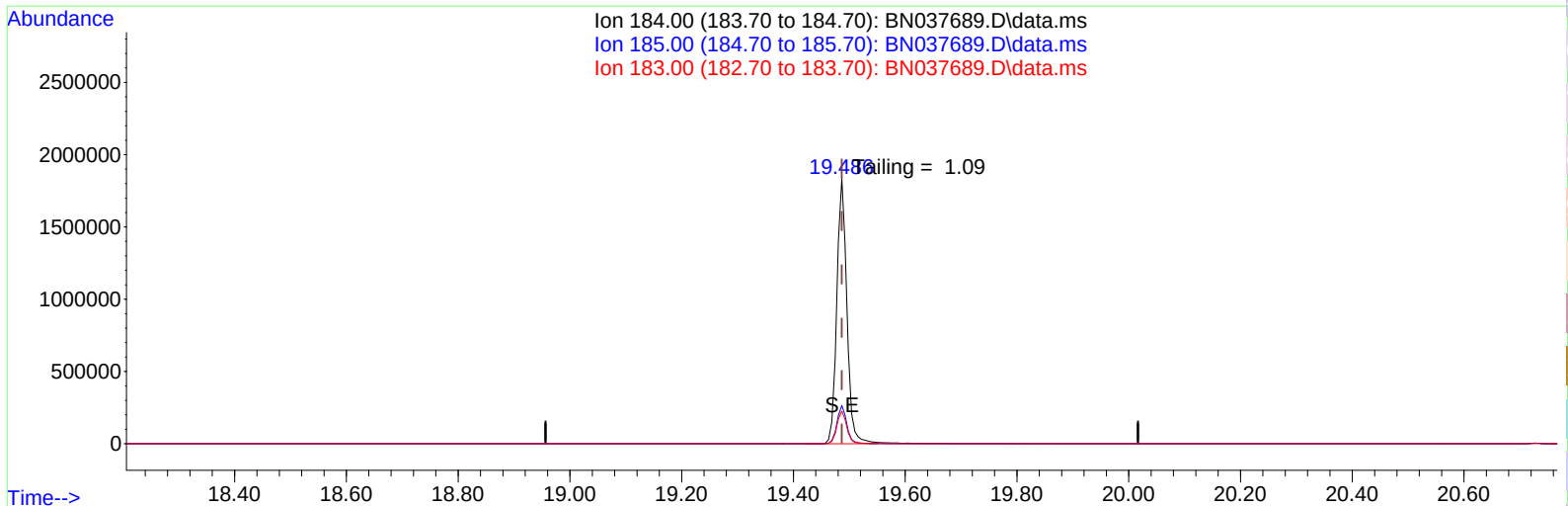
response 430126

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.50	64.54
264.00	63.90	63.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037689.D
Acq On : 11 Sep 2025 07:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 11 13:15:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 13:14:53 2025
Response via : Initial Calibration



TIC: BN037689.D\data.ms

(77) Benzidine

19.486min (0.000) 64237.37 ng

response 2281946

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.43
183.00	12.30	12.32
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

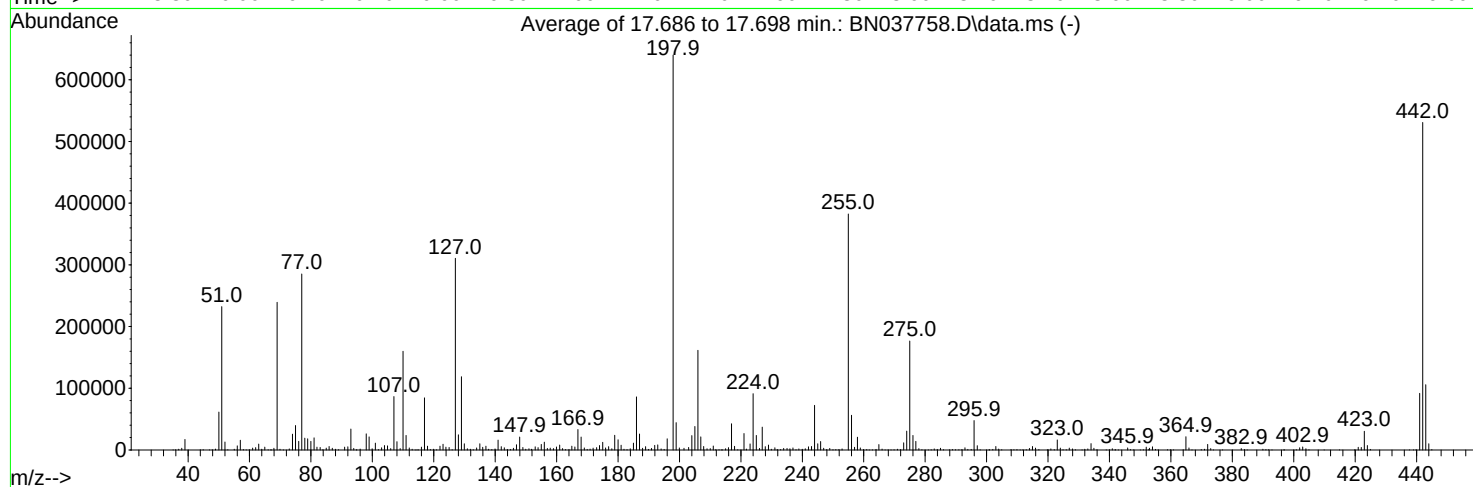
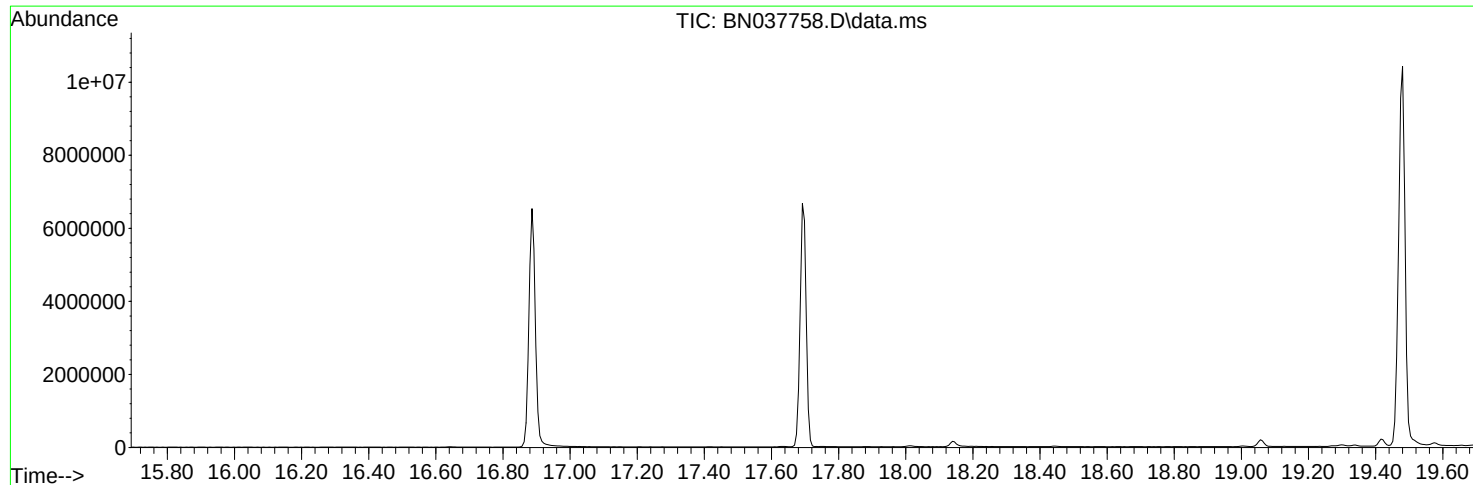
Date	Instrument Name	DFTPP Data File
9/11/2025	BNA_N	<u>BN037689.D</u>
Compound Name	Response	Retention Time
DDT	1069016	20.727
DDD	7982	20.286
DDE	769	19.78
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8751	1077767	0.81

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



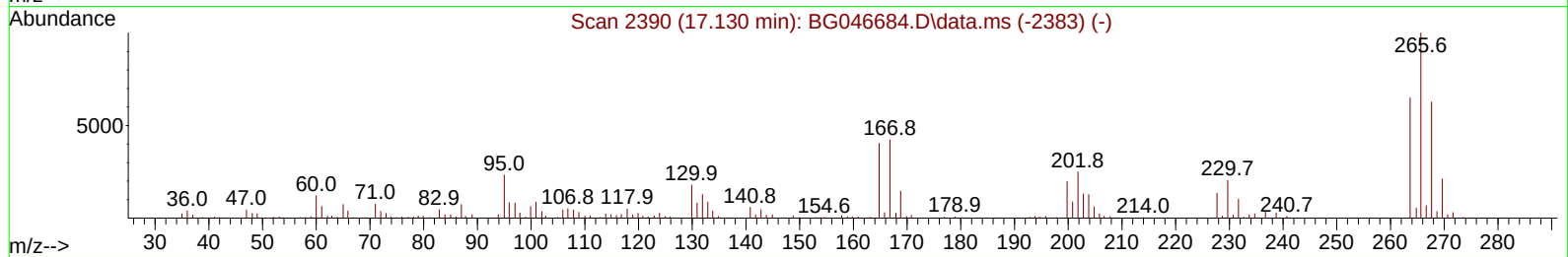
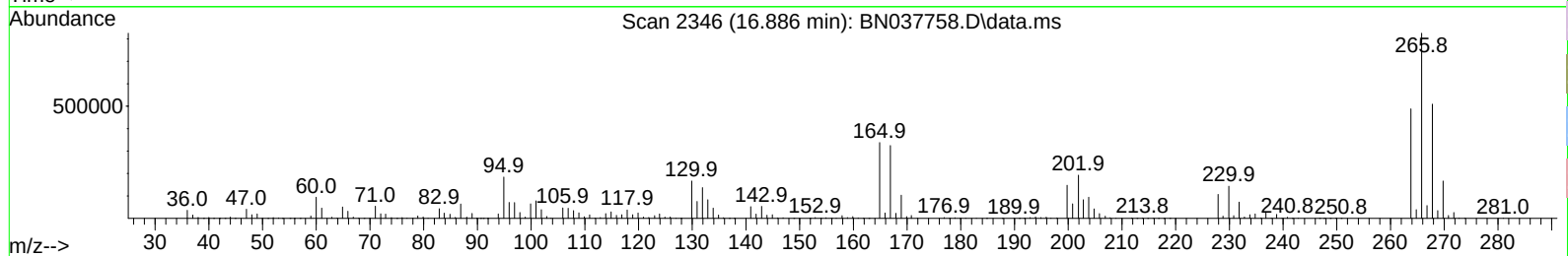
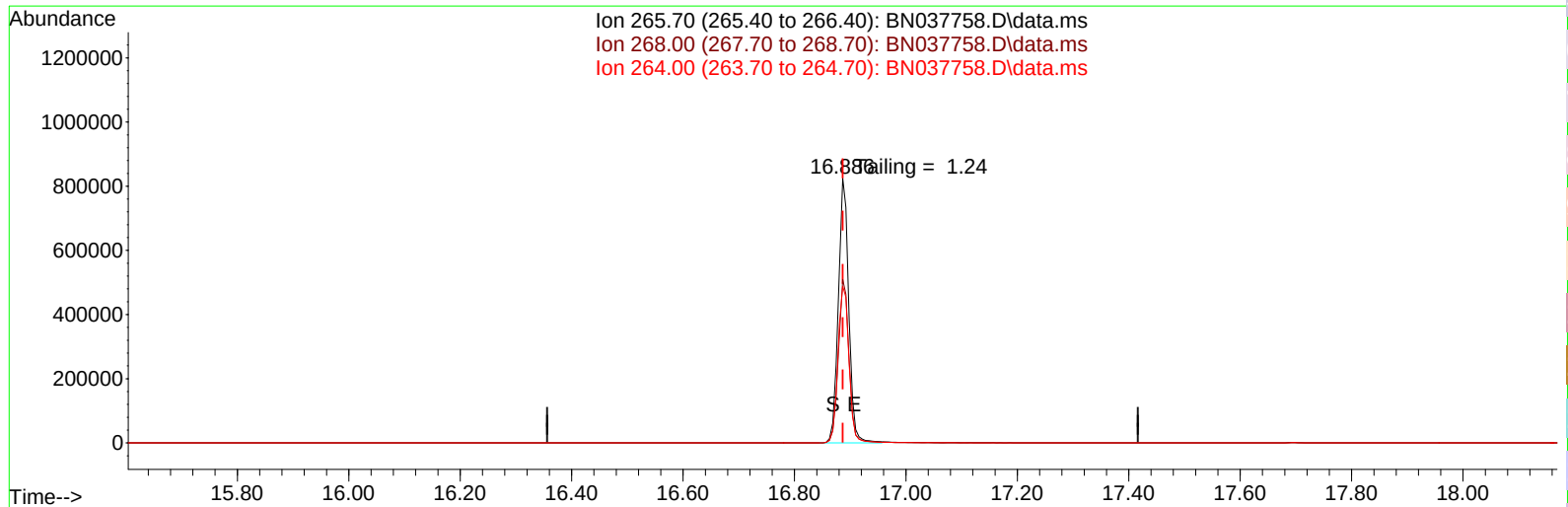
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.1	2651	PASS
69	69	100	100	100.0	239192	PASS
70	69	0.00	2	0.5	1177	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	640043	PASS
199	198	5	9	6.9	44243	PASS
365	198	1	100	3.3	21358	PASS
441	443	0.01	150	86.6	91685	PASS
442	442	100	100	100.0	530709	PASS
443	442	15	24	19.9	105811	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration



TIC: BN037758.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 150096.94 ng

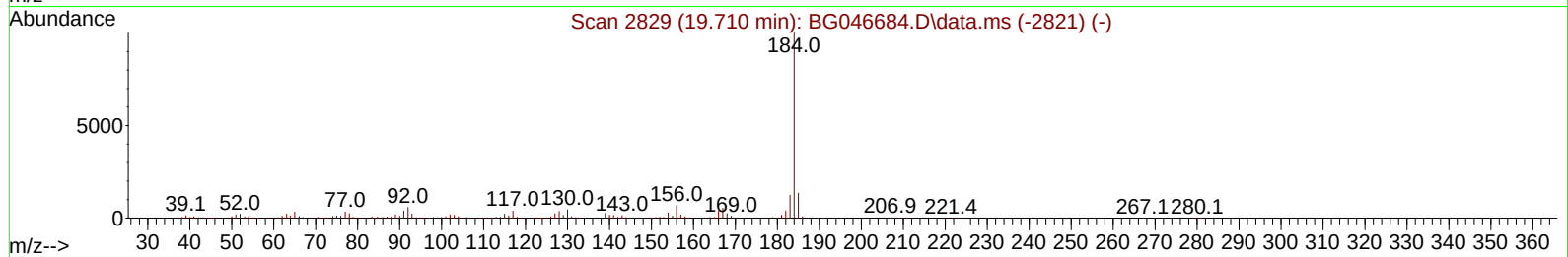
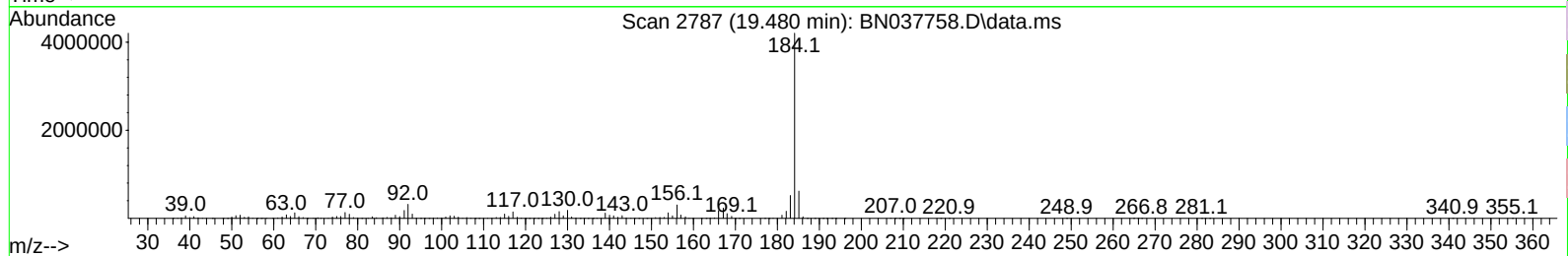
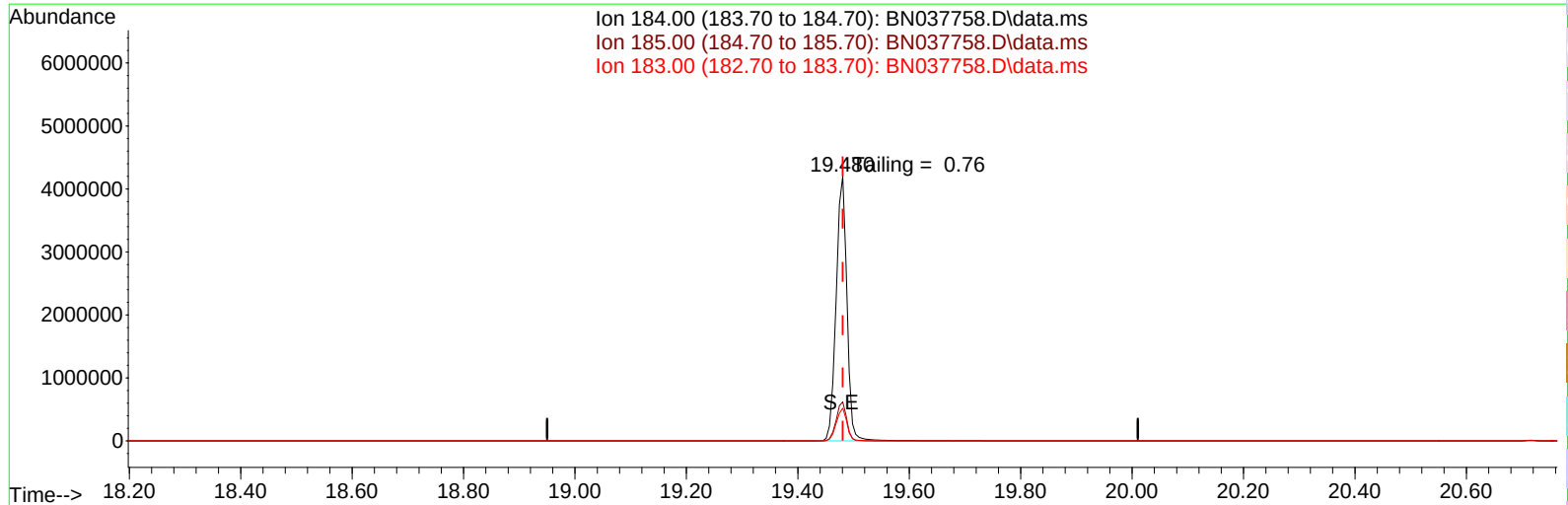
response 1070732

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.72
264.00	61.60	59.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037758.D
Acq On : 18 Sep 2025 02:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 08:37:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 08:37:03 2025
Response via : Initial Calibration



TIC: BN037758.D\data.ms

(77) Benzidine

19.480min (0.000) 95951.94 ng

response 5587198

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.72
183.00	13.20	12.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

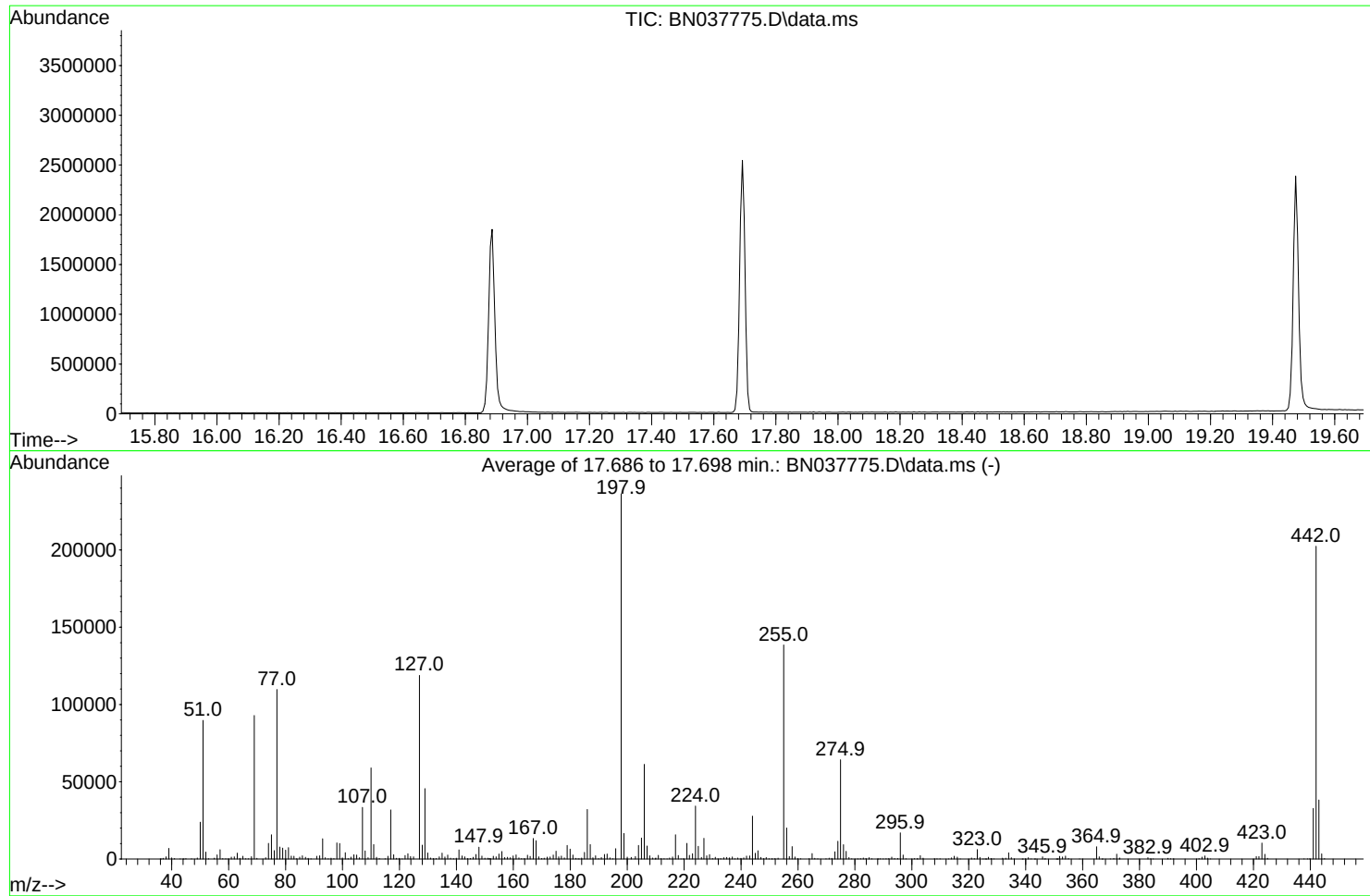
Date	Instrument Name	DFTPP Data File
9/17/2025	BNA_N	<u>BN037758.D</u>
Compound Name	Response	Retention Time
DDT	2444036	20.716
DDD	52273	20.274
DDE	1911	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
54184	2498220	2.17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



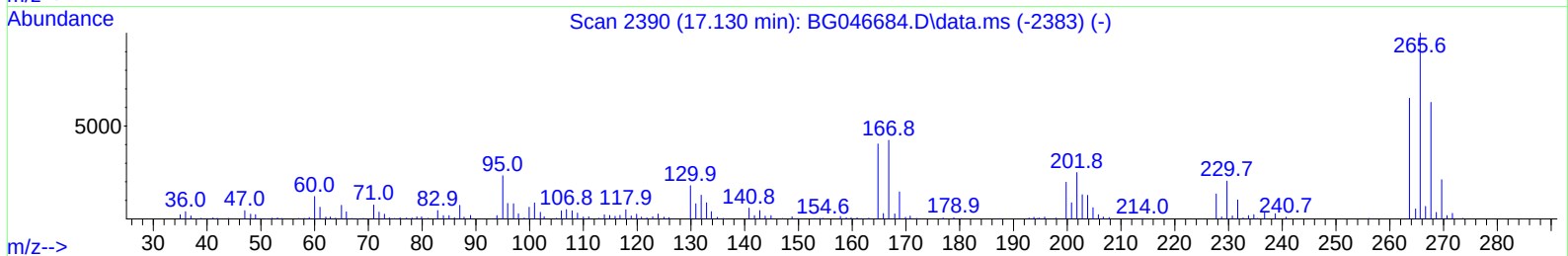
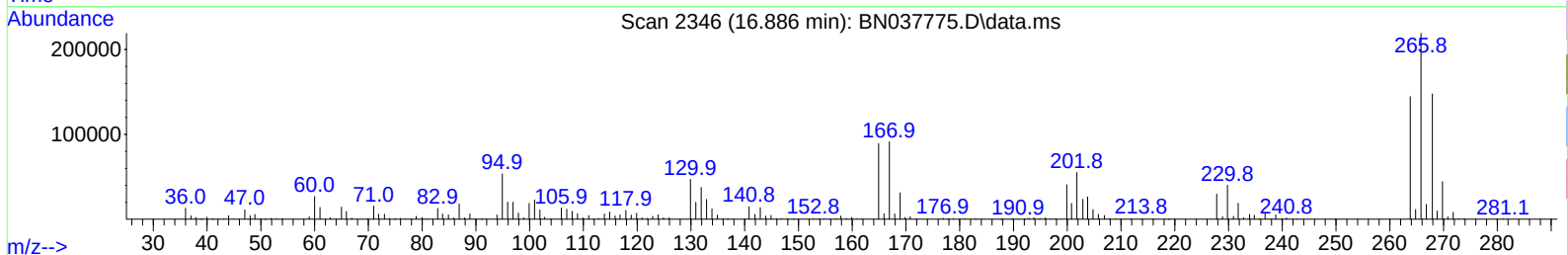
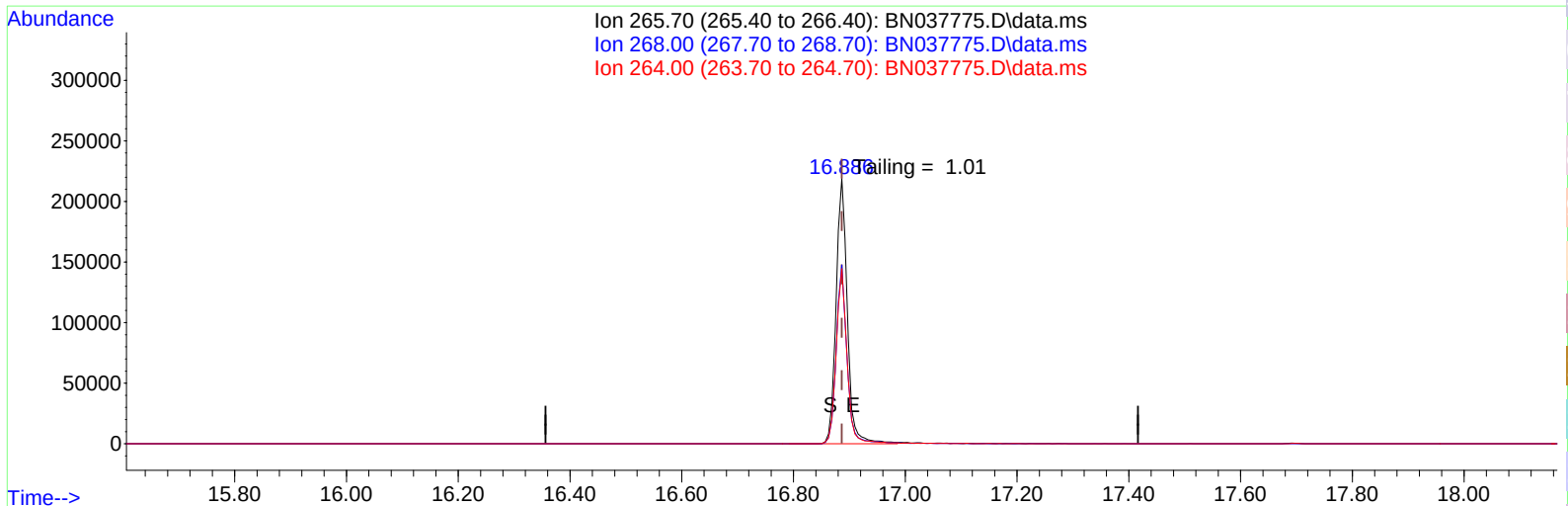
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.7	1536	PASS
69	69	100	100	100.0	92893	PASS
70	69	0.00	2	0.5	488	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	236267	PASS
199	198	5	9	7.0	16530	PASS
365	198	1	100	3.4	7963	PASS
441	443	0.01	150	85.6	32739	PASS
442	442	100	100	100.0	202432	PASS
443	442	15	24	18.9	38232	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration



TIC: BN037775.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 277.80 ng

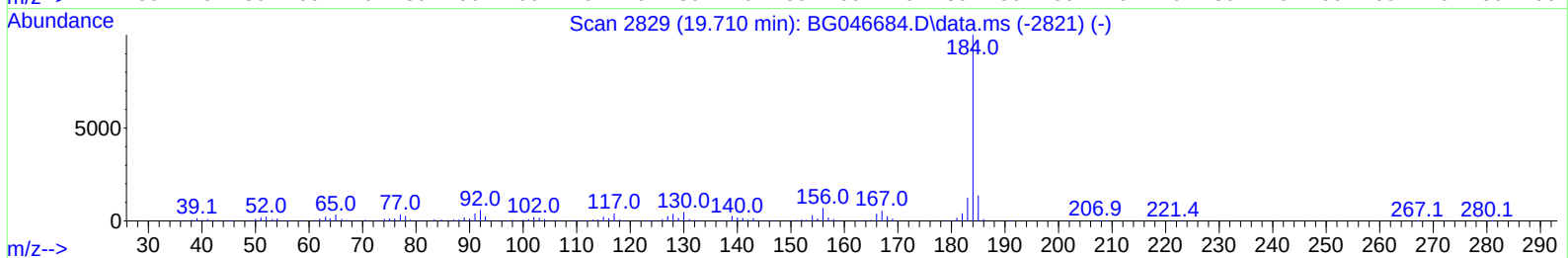
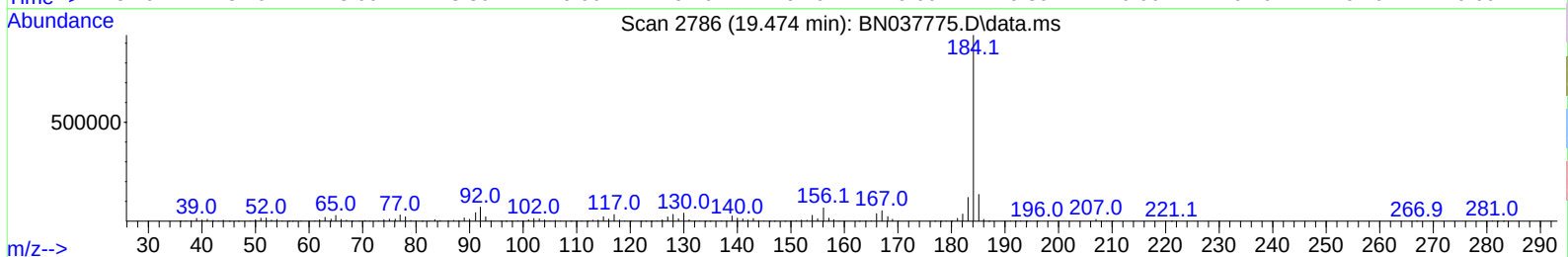
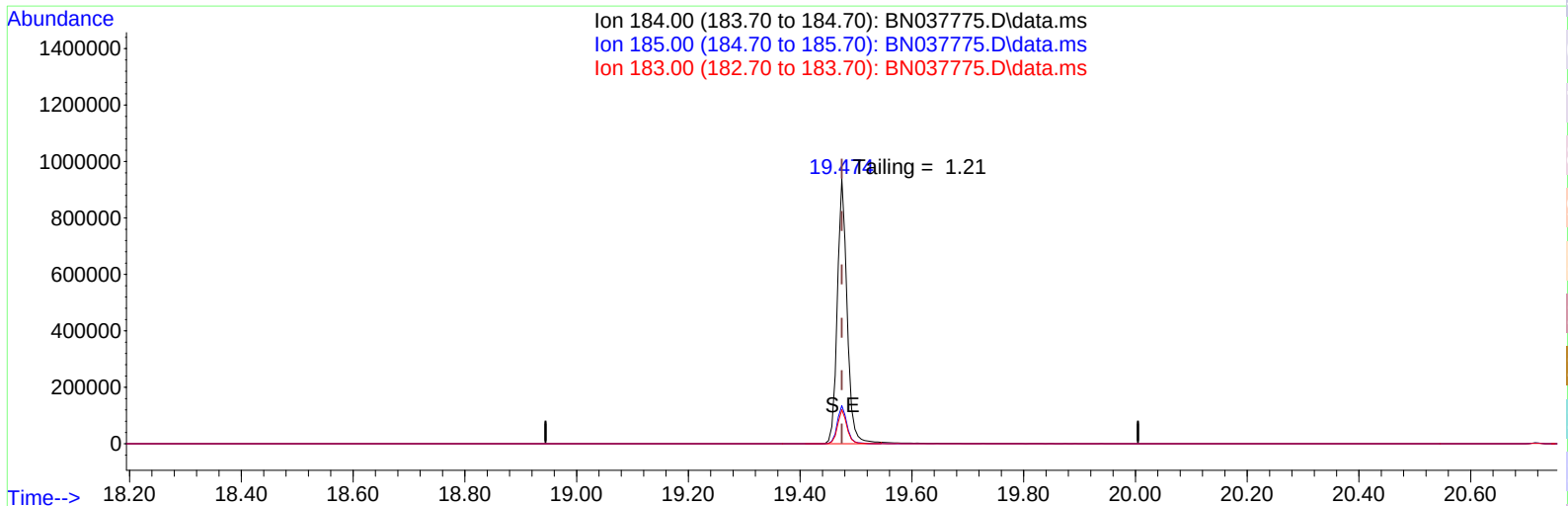
response 307595

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.44
264.00	61.60	66.00
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037775.D
Acq On : 18 Sep 2025 13:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 14:26:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 18 14:26:16 2025
Response via : Initial Calibration



TIC: BN037775.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1155100

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.36
183.00	13.20	12.81
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

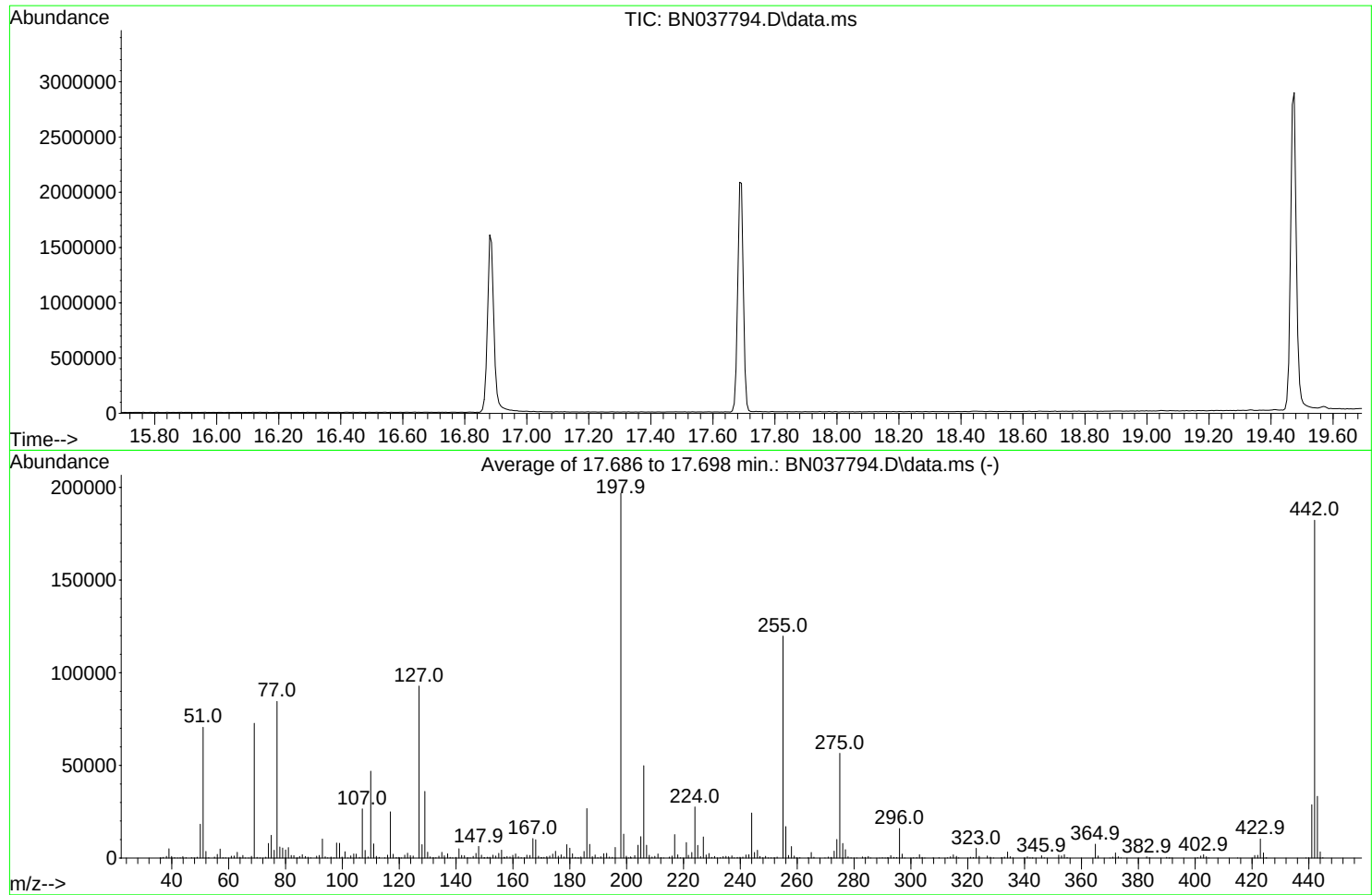
Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	<u>BN037775.D</u>
Compound Name	Response	Retention Time
DDT	760598	20.715
DDD	22424	20.274
DDE	1646	19.774
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
24070	784668	3.07

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



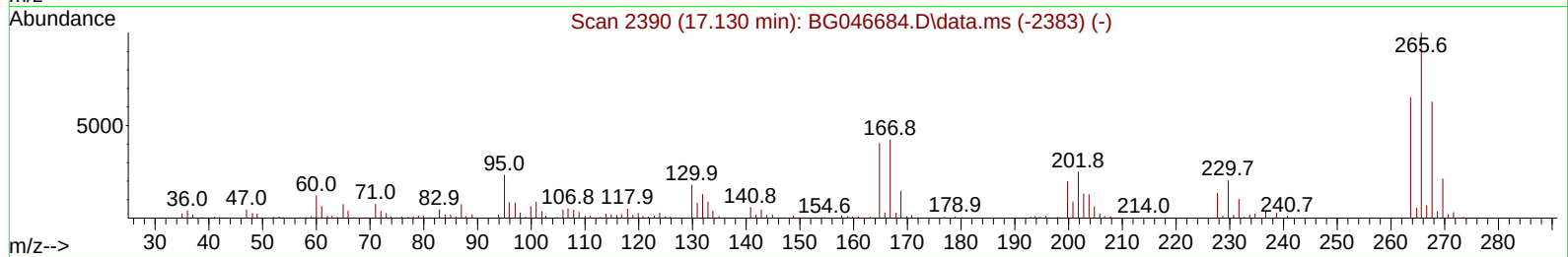
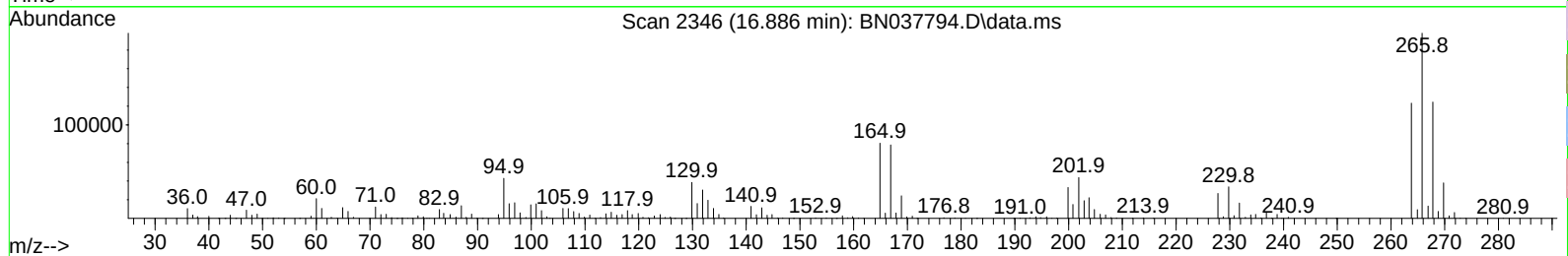
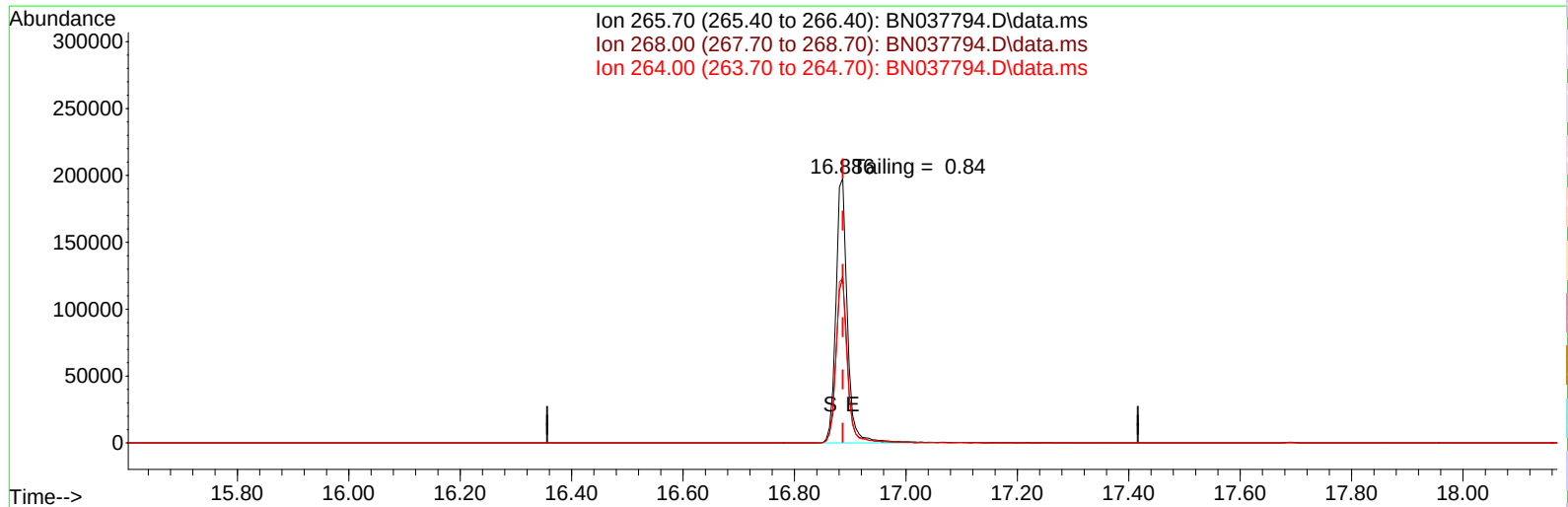
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.4	987	PASS
69	69	100	100	100.0	72725	PASS
70	69	0.00	2	0.6	414	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196813	PASS
199	198	5	9	6.6	12909	PASS
365	198	1	100	3.8	7534	PASS
441	443	0.01	150	86.4	28805	PASS
442	442	100	100	100.0	182293	PASS
443	442	15	24	18.3	33347	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration



TIC: BN037794.D\data.ms

(70) Pentachlorophenol (C)

16.886min (0.000) 32518.88 ng

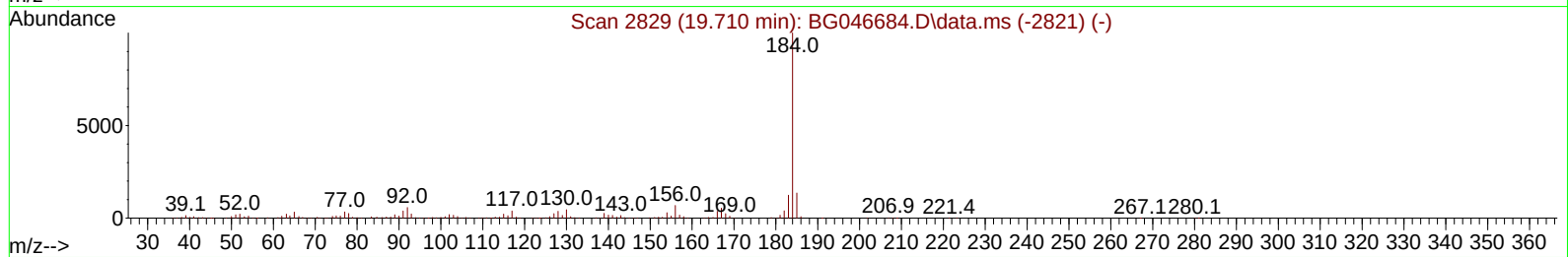
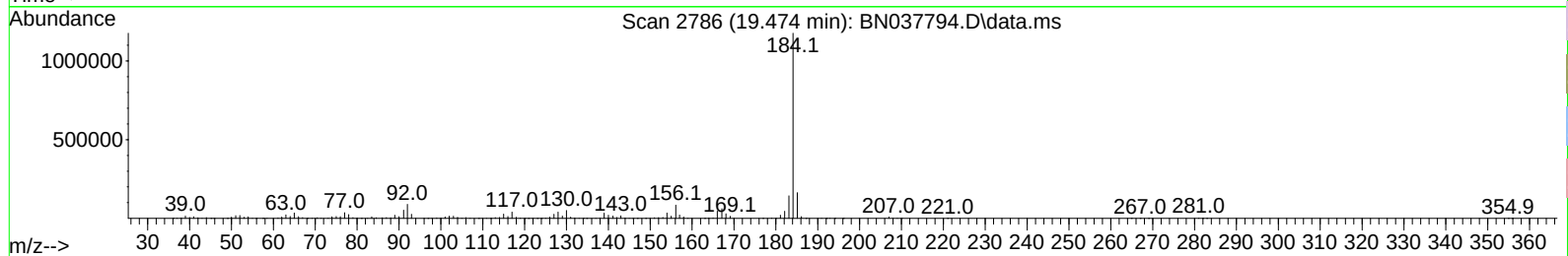
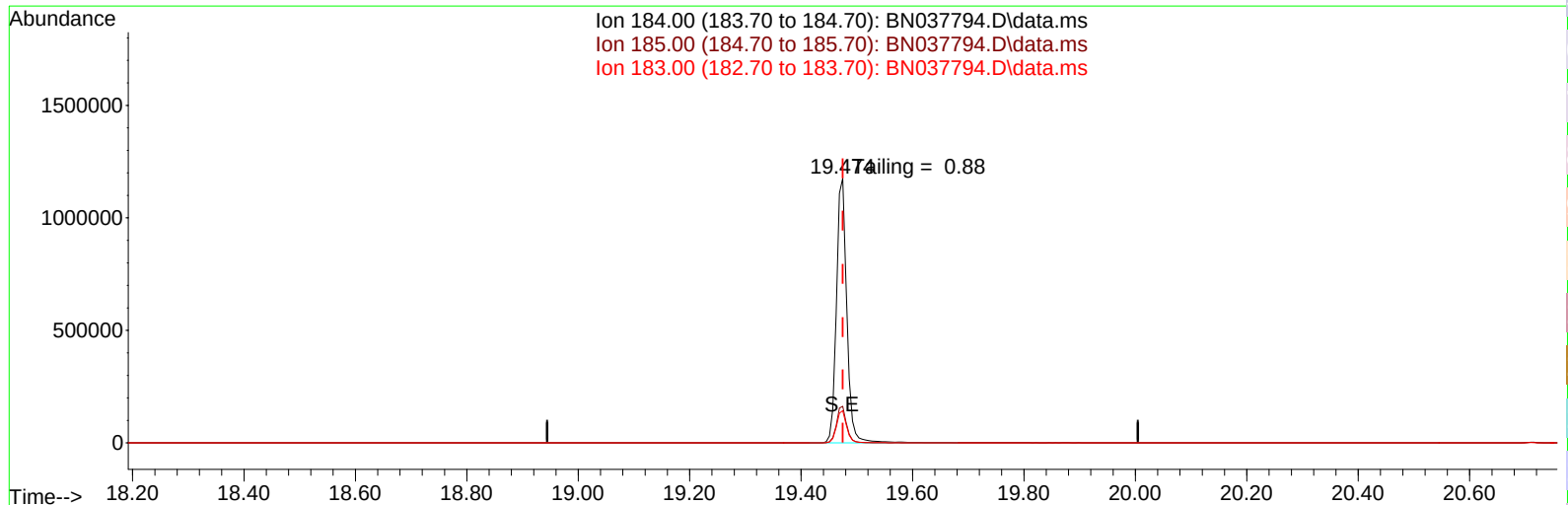
response 284548

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.85
264.00	61.60	62.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037794.D
Acq On : 19 Sep 2025 02:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 19 04:29:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 19 04:29:39 2025
Response via : Initial Calibration



TIC: BN037794.D\data.ms

(77) Benzidine

19.474min (0.000) 0.00 ng

response 1527830

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.88
183.00	13.20	12.20
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

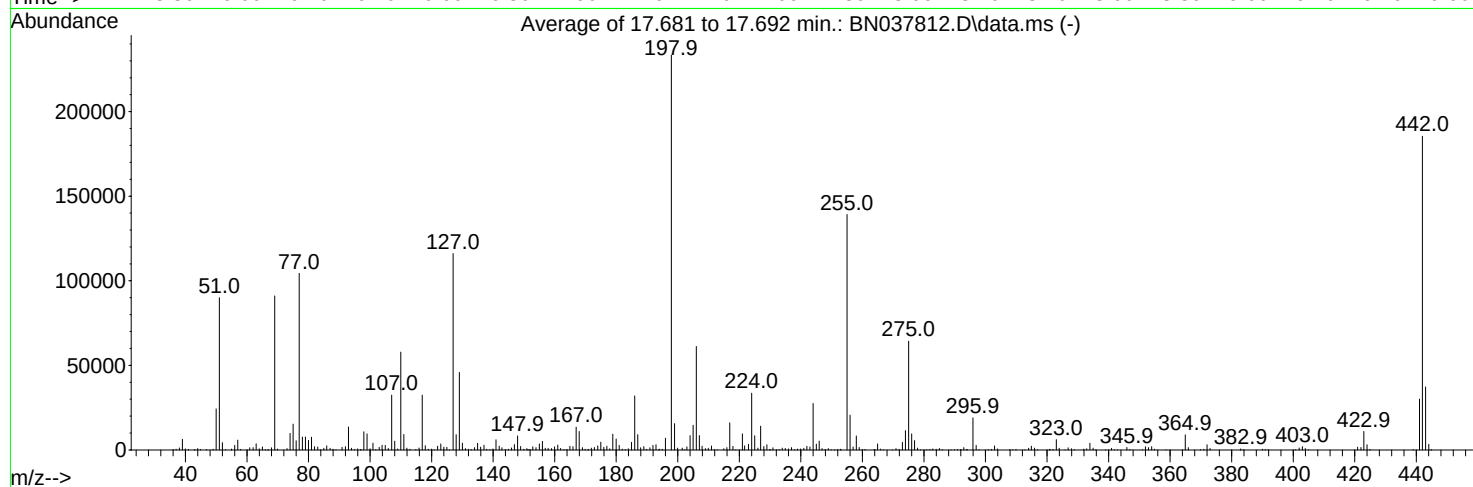
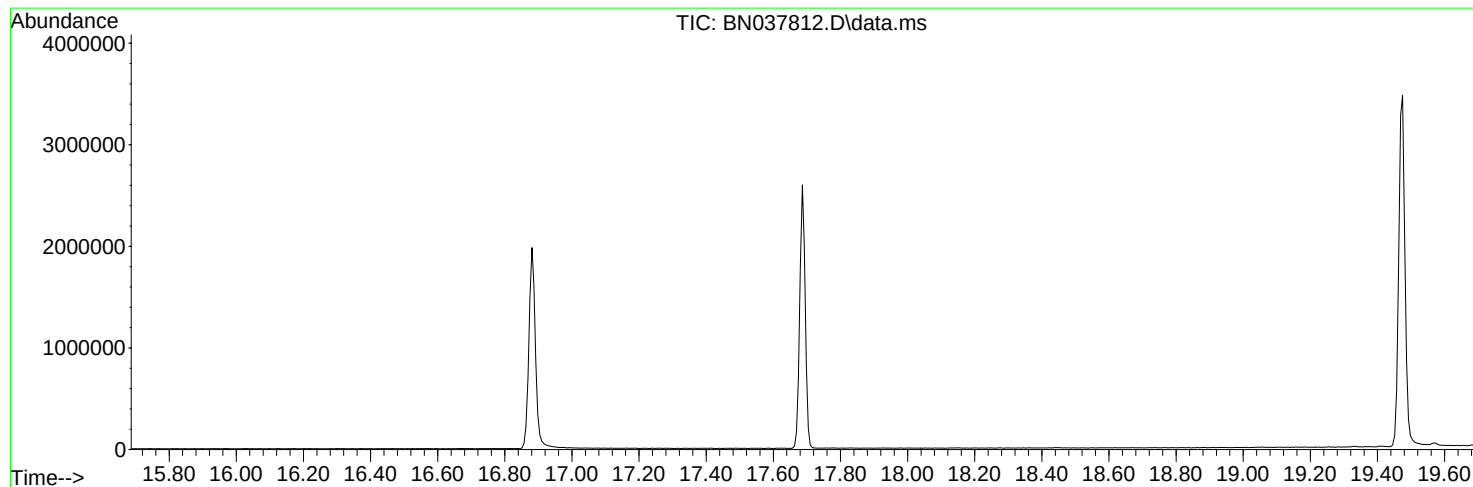
Date	Instrument Name	DFTPP Data File
9/18/2025	BNA_N	<u>BN037794.D</u>
Compound Name	Response	Retention Time
DDT	688292	20.71
DDD	26538	20.269
DDE	1670	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28208	716500	3.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



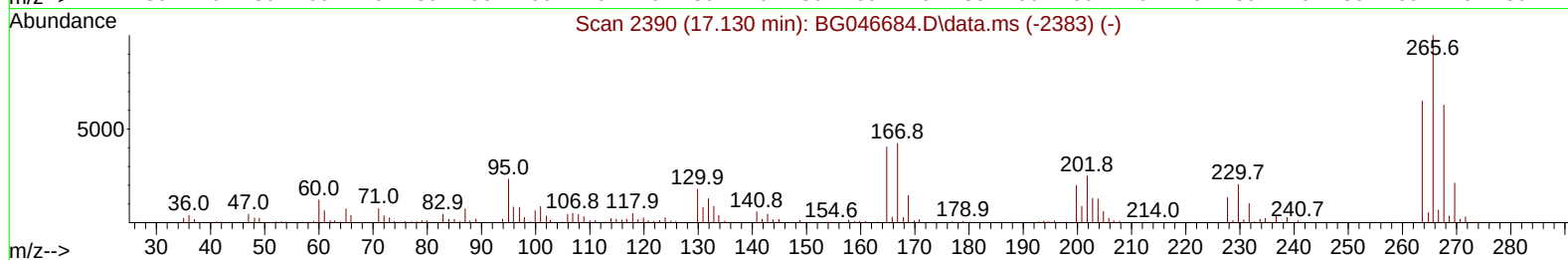
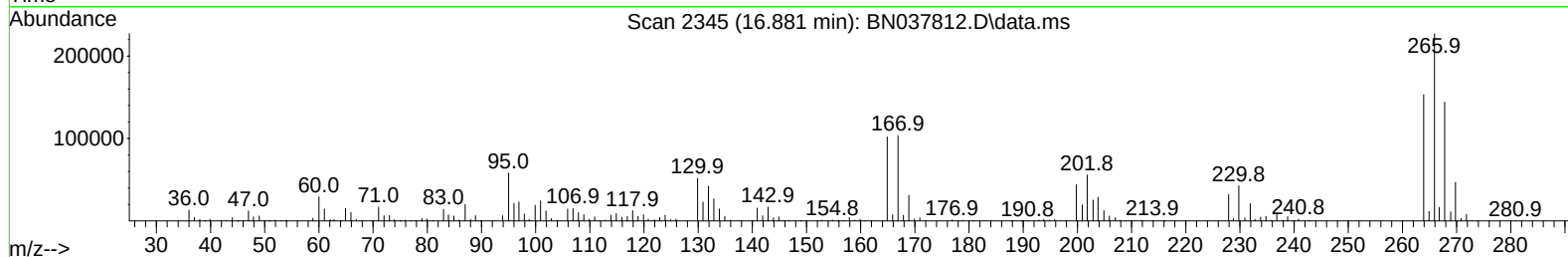
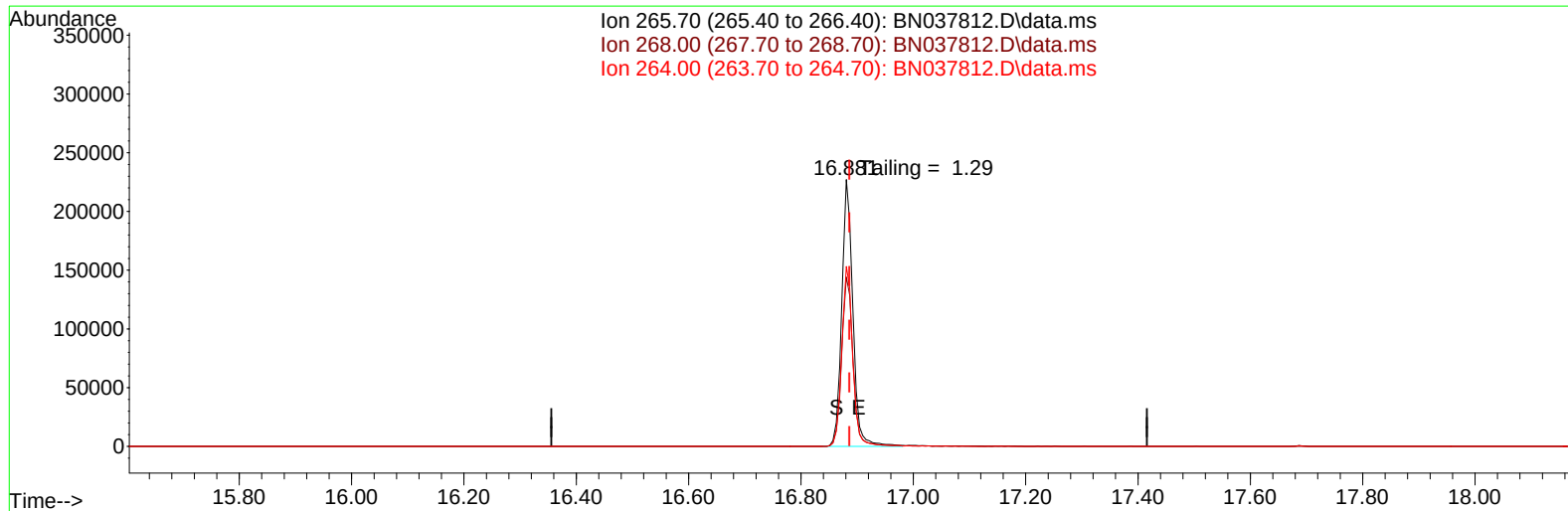
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.4	1252	PASS
69	69	100	100	100.0	91029	PASS
70	69	0.00	2	0.6	539	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	233408	PASS
199	198	5	9	6.7	15546	PASS
365	198	1	100	3.8	8907	PASS
441	443	0.01	150	80.8	30061	PASS
442	442	100	100	100.0	185456	PASS
443	442	15	24	20.1	37200	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 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: BN037812.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 23824.83 ng

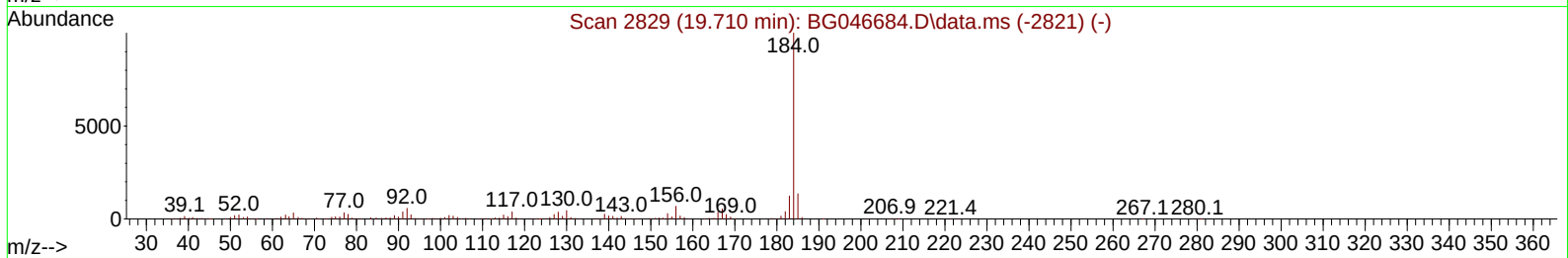
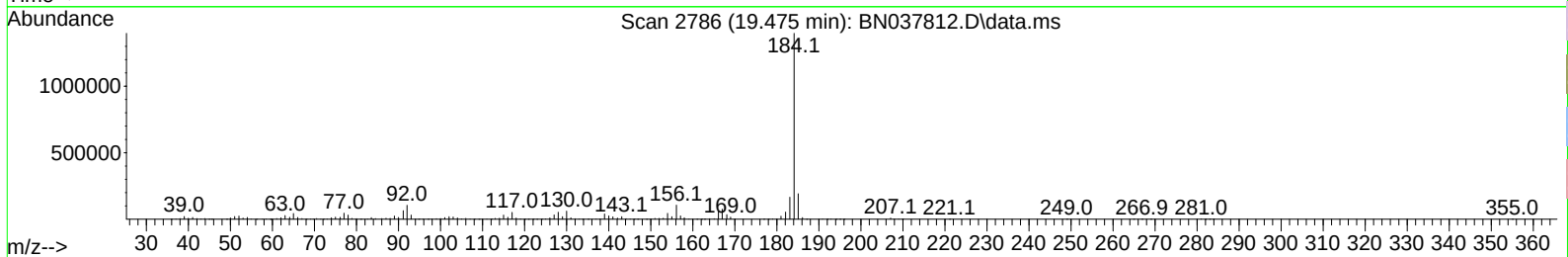
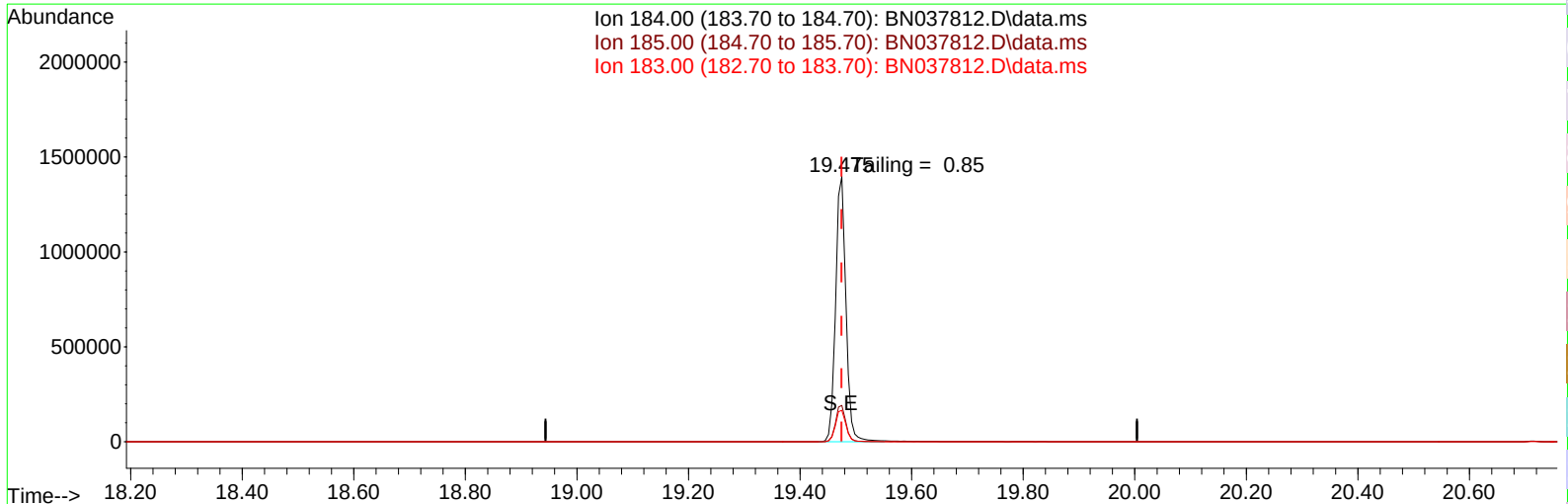
response 312055

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.43
264.00	61.60	67.43
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037812.D
Acq On : 19 Sep 2025 13:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 20:01:10 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: BN037812.D\data.ms

(77) Benizidine

19.475min (+ 0.001) 0.00 ng

response 1812303

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.75
183.00	13.20	11.88
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

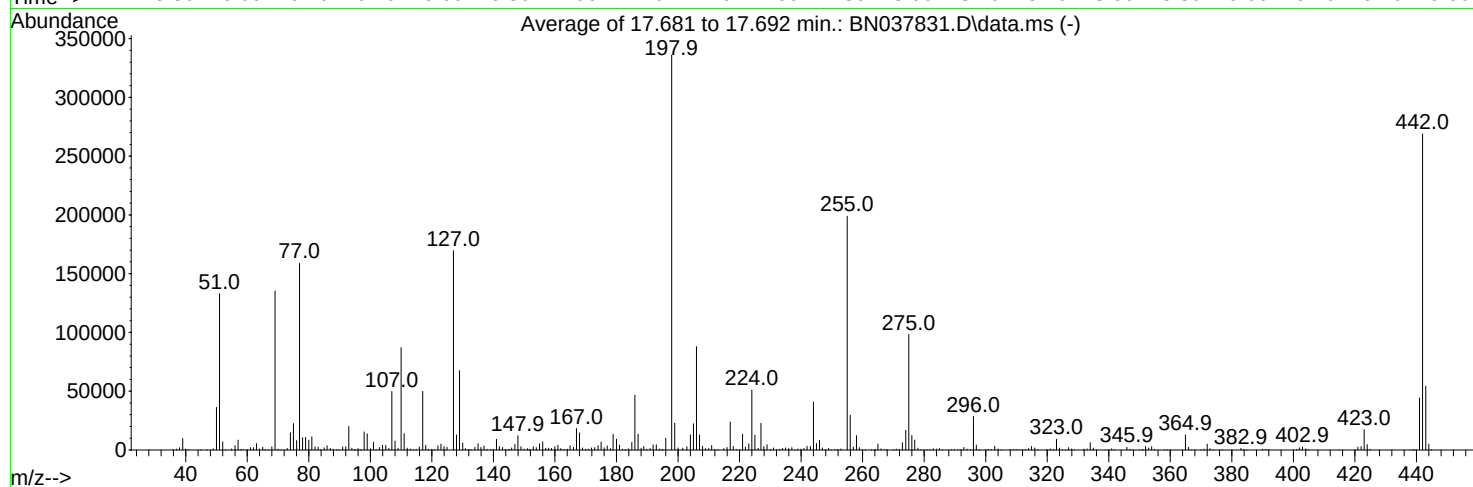
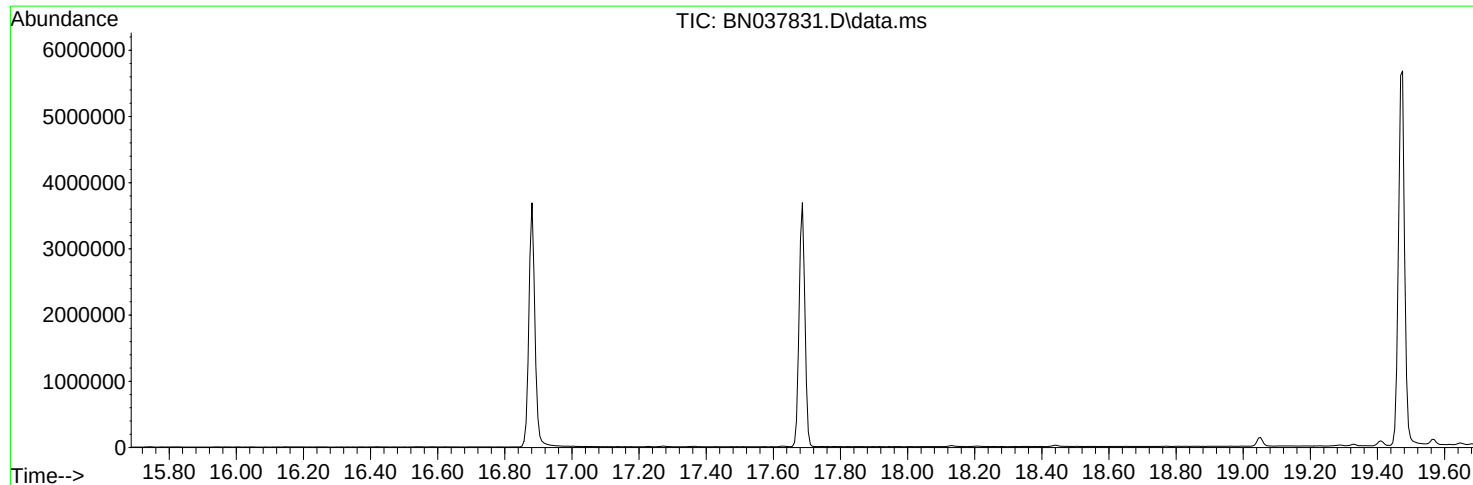
Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037812.D</u>
Compound Name	Response	Retention Time
DDT	836771	20.716
DDD	28711	20.275
DDE	1832	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
30543	867314	3.52

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



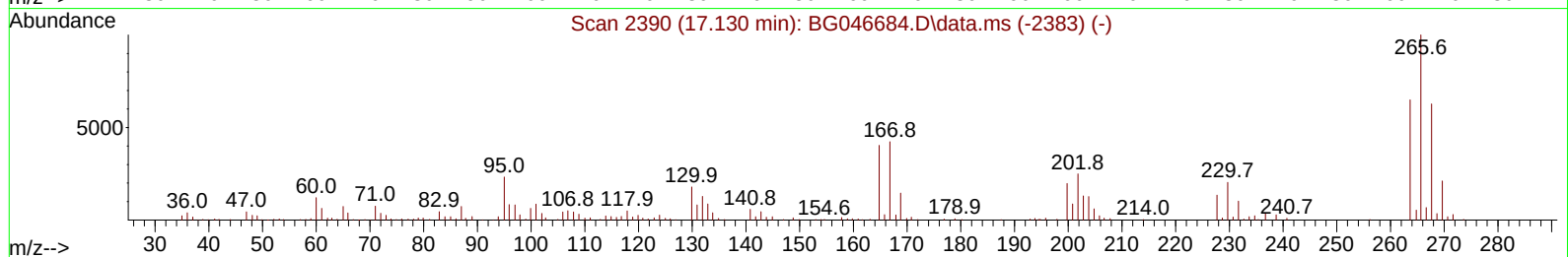
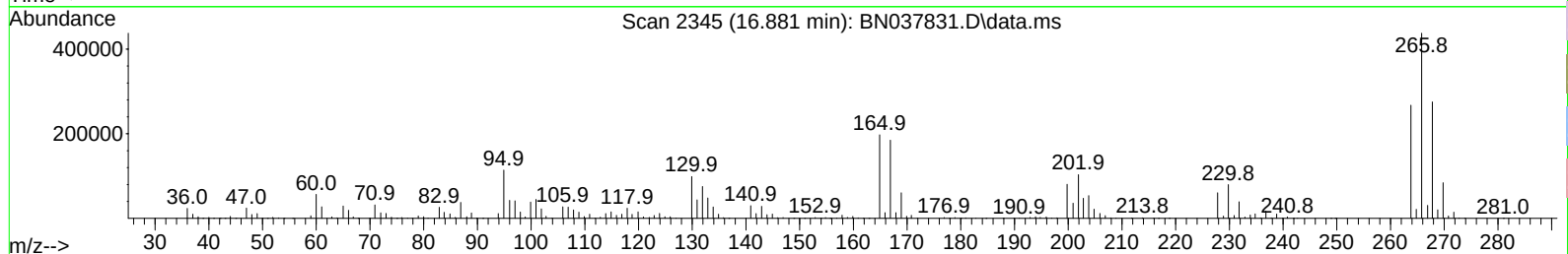
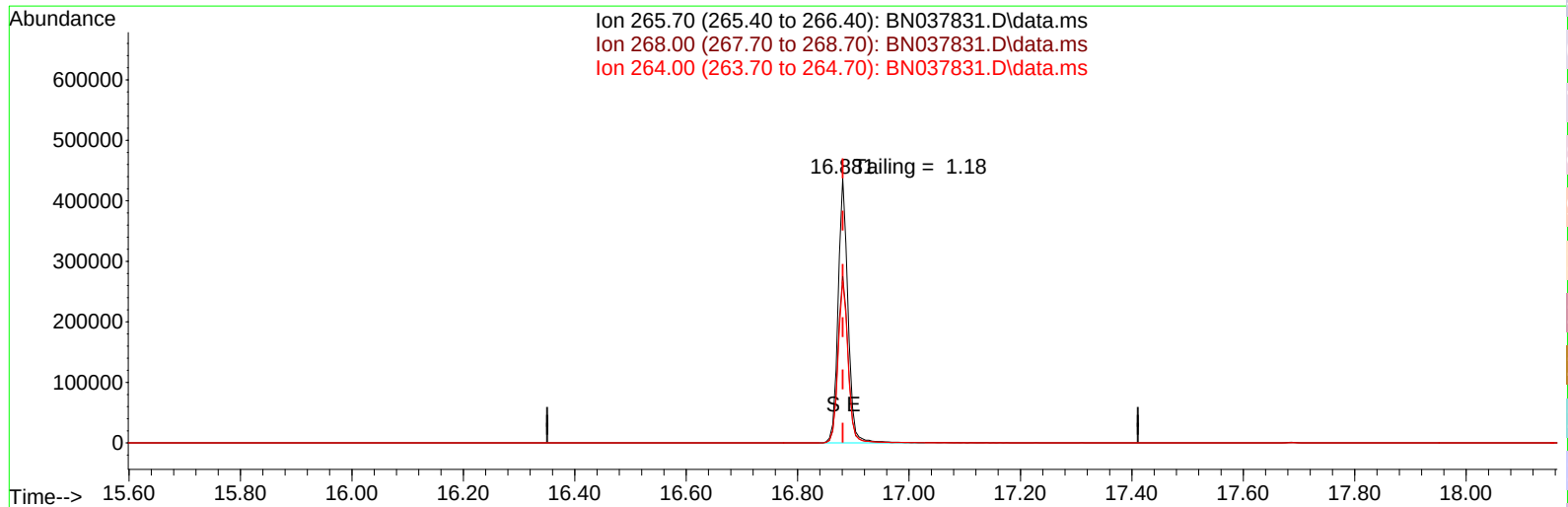
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.9	2623	PASS
69	69	100	100	100.0	135264	PASS
70	69	0.00	2	0.6	760	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	335979	PASS
199	198	5	9	6.8	22795	PASS
365	198	1	100	3.8	12691	PASS
441	443	0.01	150	81.3	44184	PASS
442	442	100	100	100.0	268907	PASS
443	442	15	24	20.2	54328	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 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: BN037831.D\data.ms

(70) Pentachlorophenol (C)

16.881min (0.000) 34698.10 ng

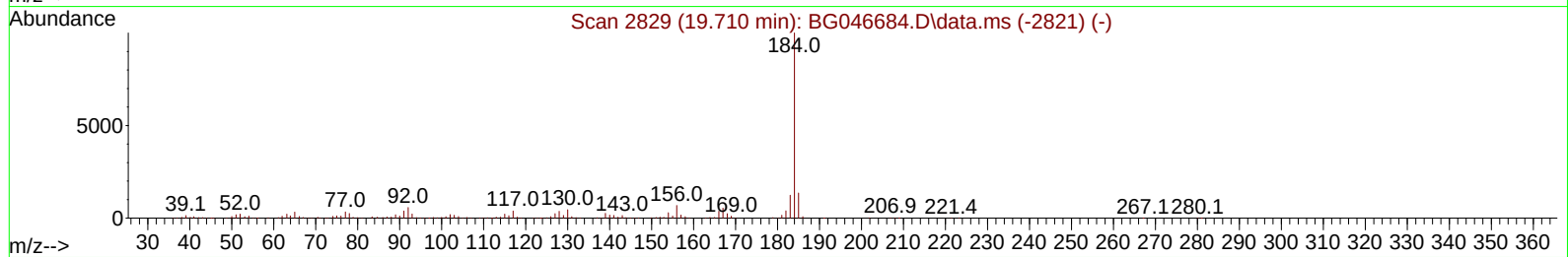
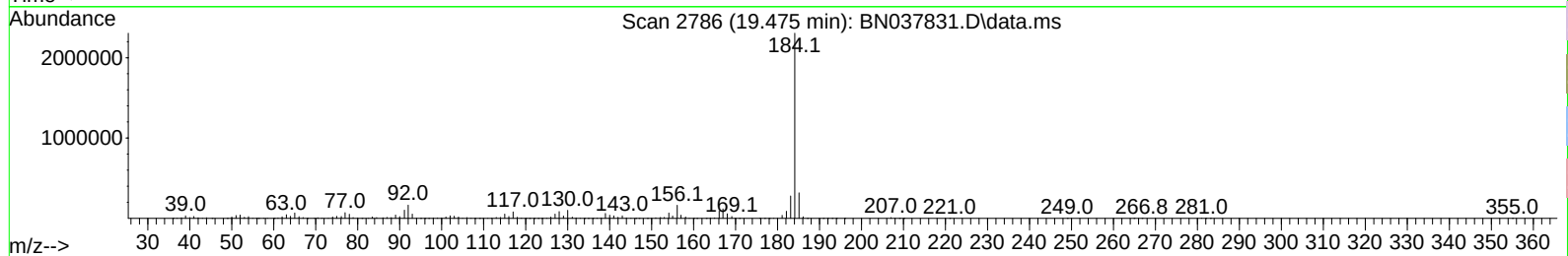
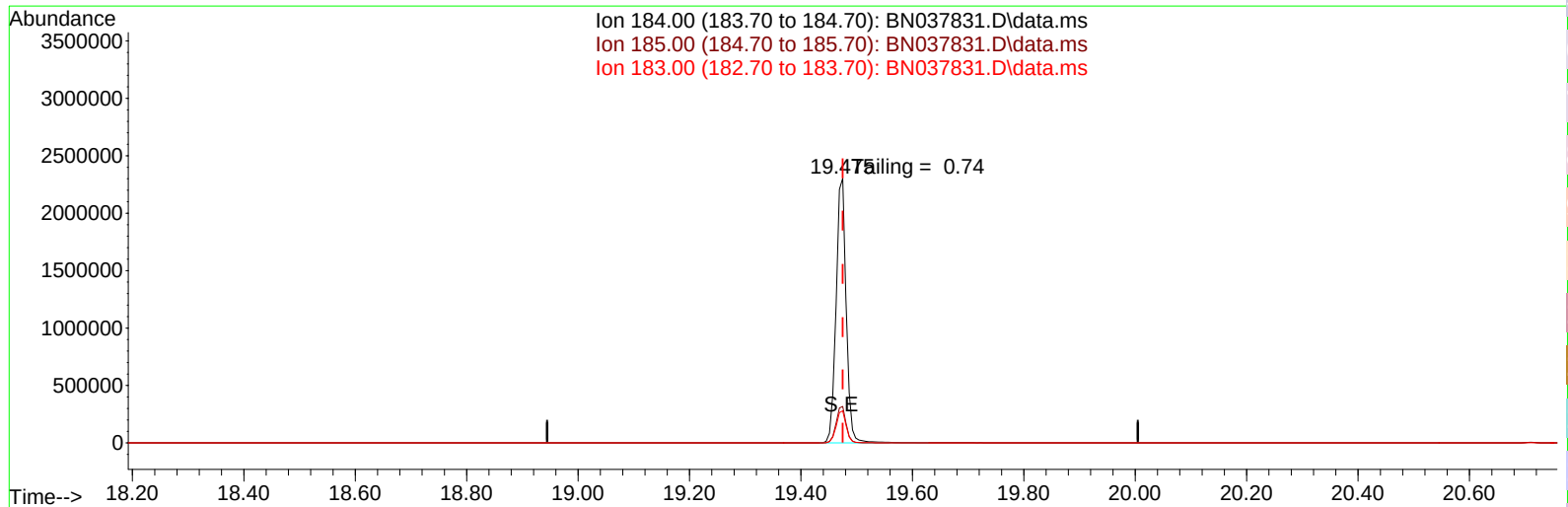
response 541064

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.87
264.00	61.60	61.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091925\
Data File : BN037831.D
Acq On : 20 Sep 2025 01:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 01:53:19 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: BN037831.D\data.ms

(77) Benzdine

19.475min (0.000) 0.00 ng

response 2907322

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.77
183.00	13.20	12.11
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

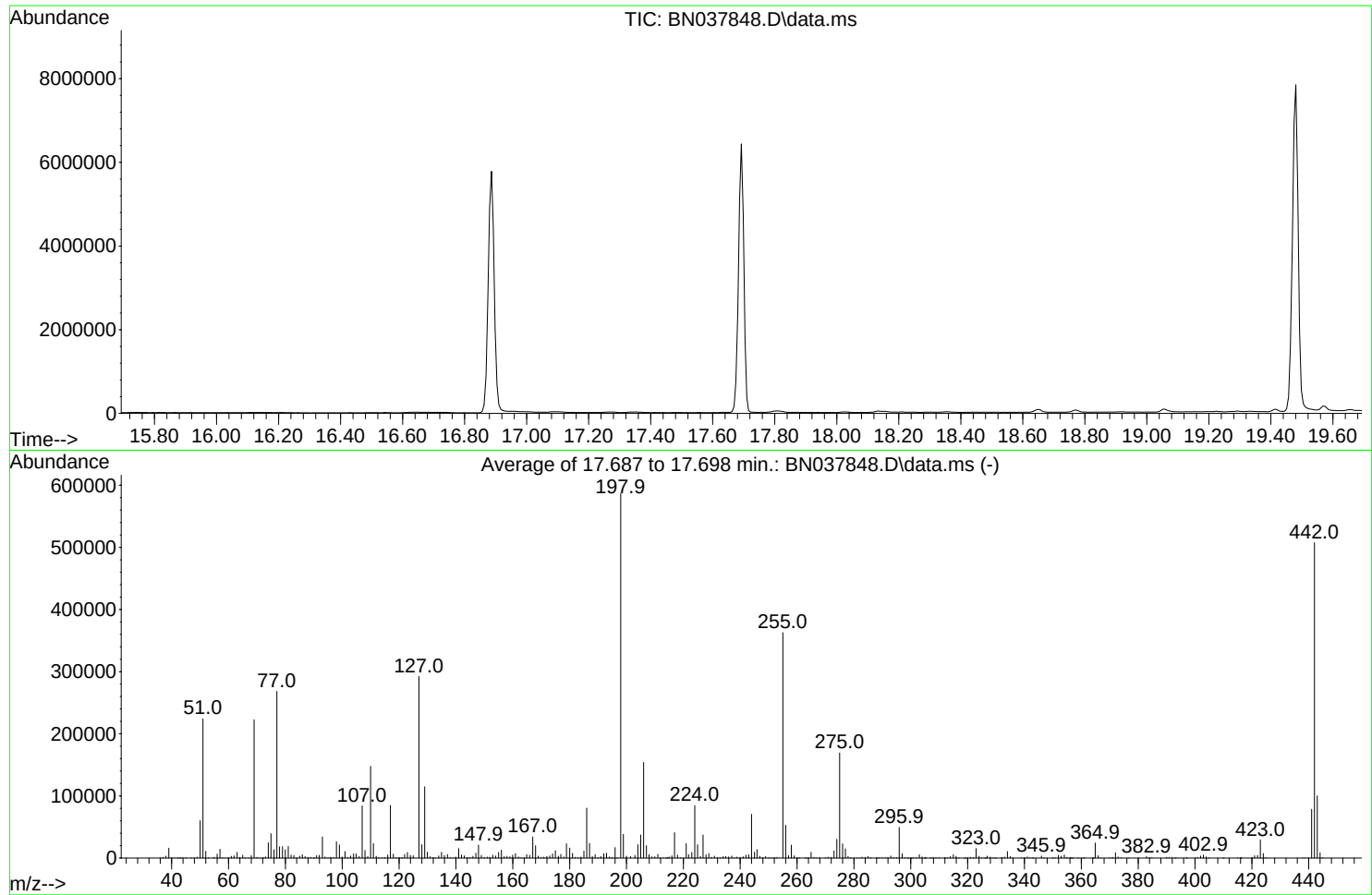
Date	Instrument Name	DFTPP Data File
9/19/2025	BNA_N	<u>BN037831.D</u>
Compound Name	Response	Retention Time
DDT	1283981	20.71
DDD	30254	20.269
DDE	1457	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
31711	1315692	2.41

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
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-BN091125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Sep 11 14:20:01 2025



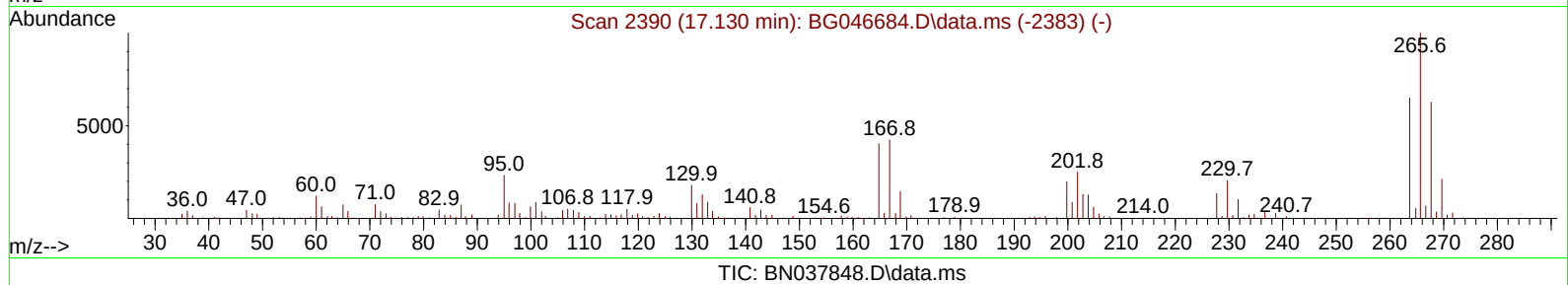
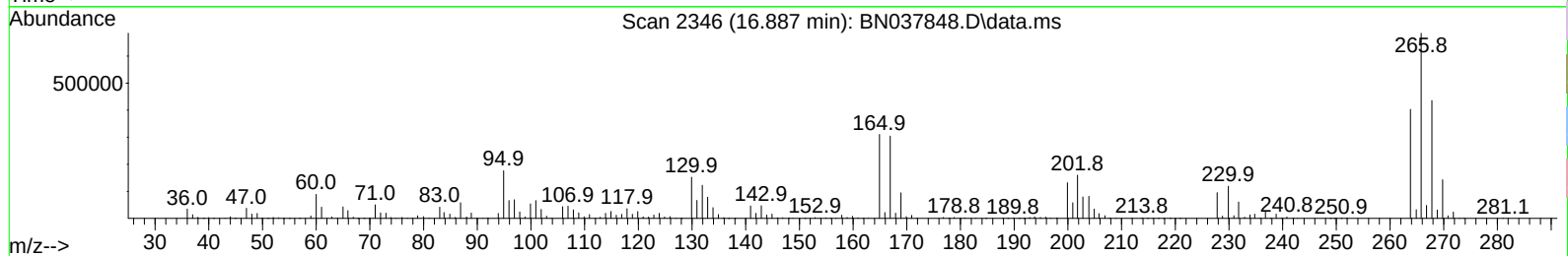
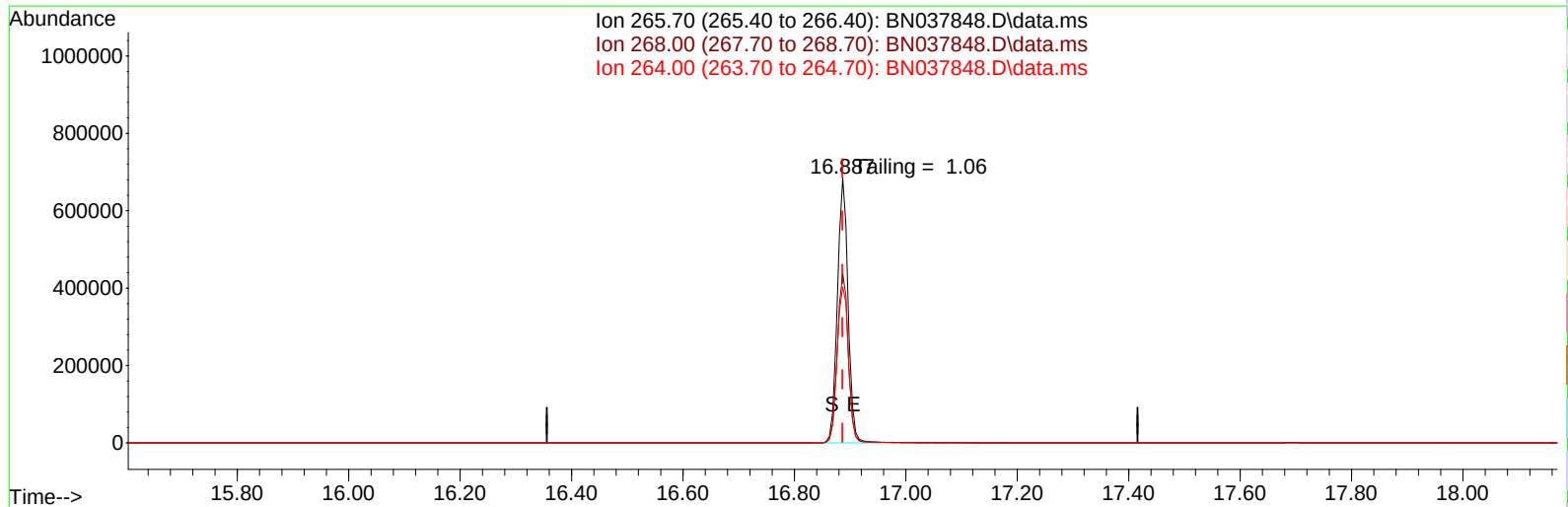
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3978	PASS
69	69	100	100	100.0	222750	PASS
70	69	0.00	2	0.5	1151	PASS
197	198	0.00	2	0.1	725	PASS
198	198	100	100	100.0	586901	PASS
199	198	5	9	6.5	38309	PASS
365	198	1	100	4.1	24221	PASS
441	443	0.01	150	78.4	78467	PASS
442	442	100	100	100.0	507499	PASS
443	442	15	24	19.7	100147	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 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

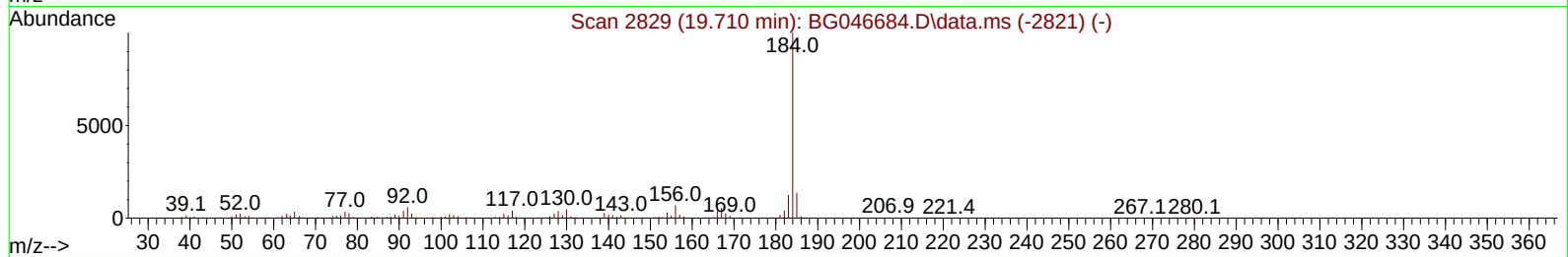
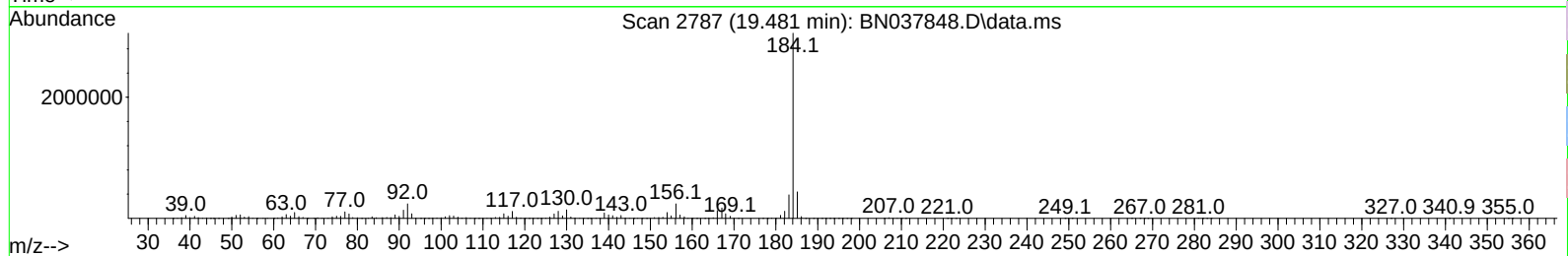
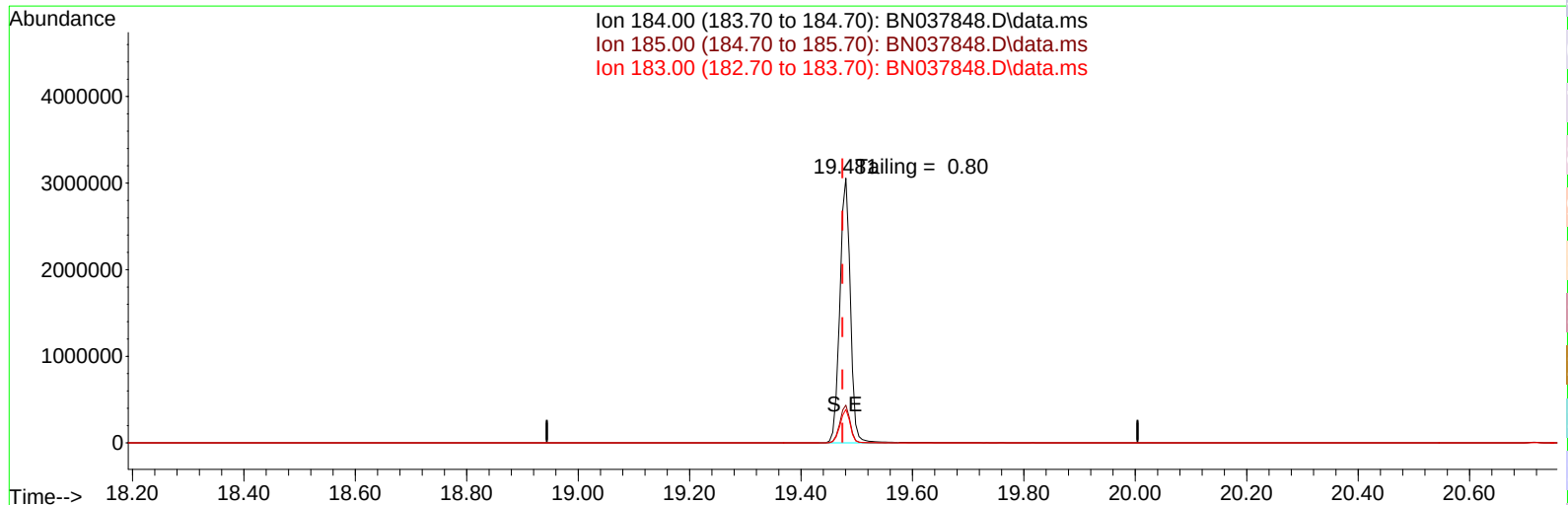
**(70) Pentachlorophenol (C)****16.887min (+ 0.001) 31161.16 ng****response 916310**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.71
264.00	61.60	58.94
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092225\
Data File : BN037848.D
Acq On : 22 Sep 2025 08:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 22 13:51:02 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: BN037848.D\data.ms

(77) Benzidine

19.481min (+ 0.006) 0.00 ng

response 4033195

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.29
183.00	13.20	12.68
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

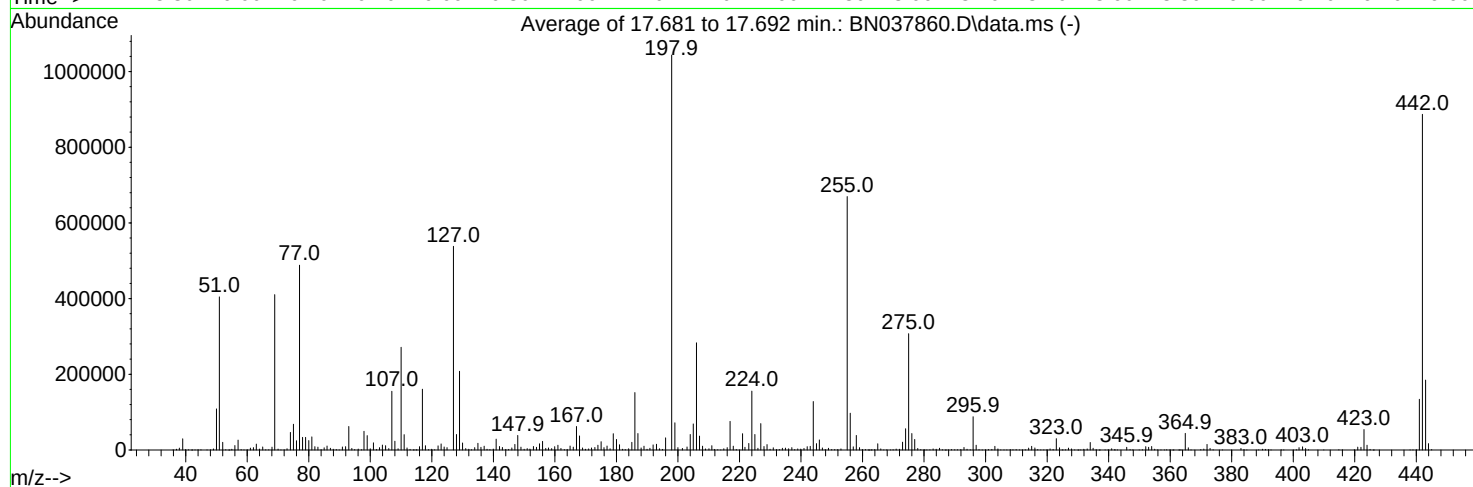
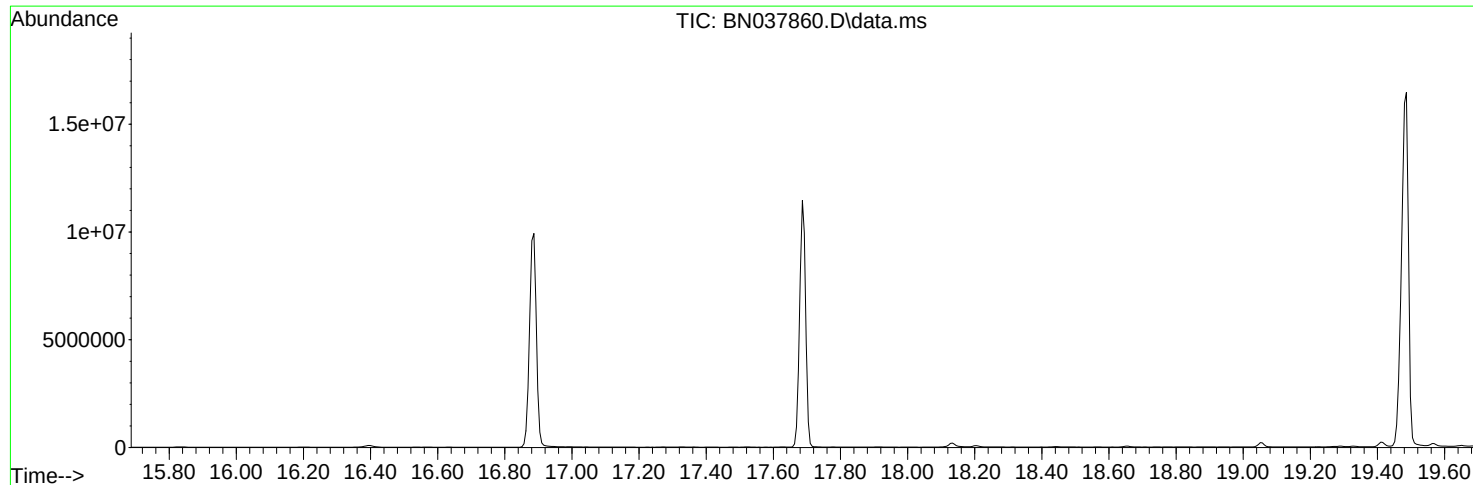
Date	Instrument Name	DFTPP Data File
9/22/2025	BNA_N	<u>BN037848.D</u>
Compound Name	Response	Retention Time
DDT	1976892	20.716
DDD	45417	20.275
DDE	4263	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
49680	2026572	2.45

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



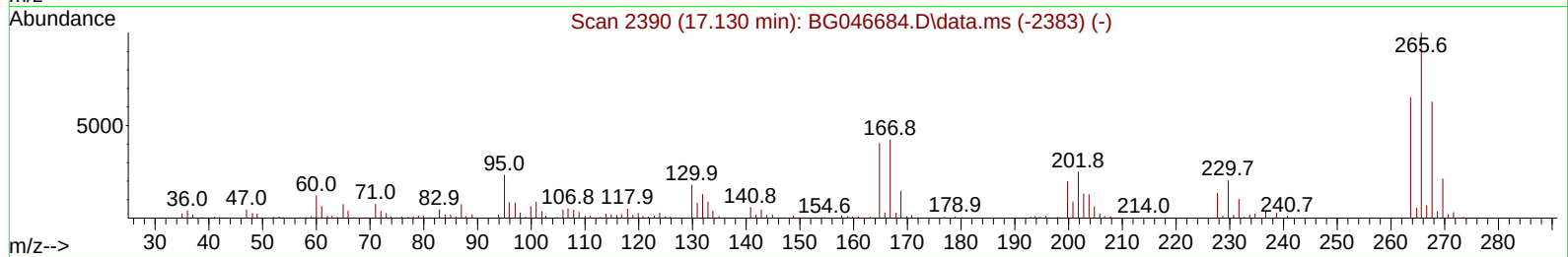
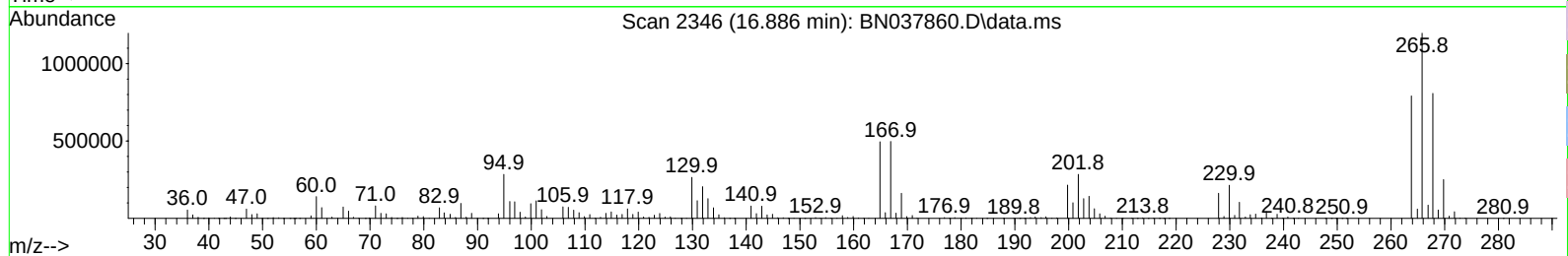
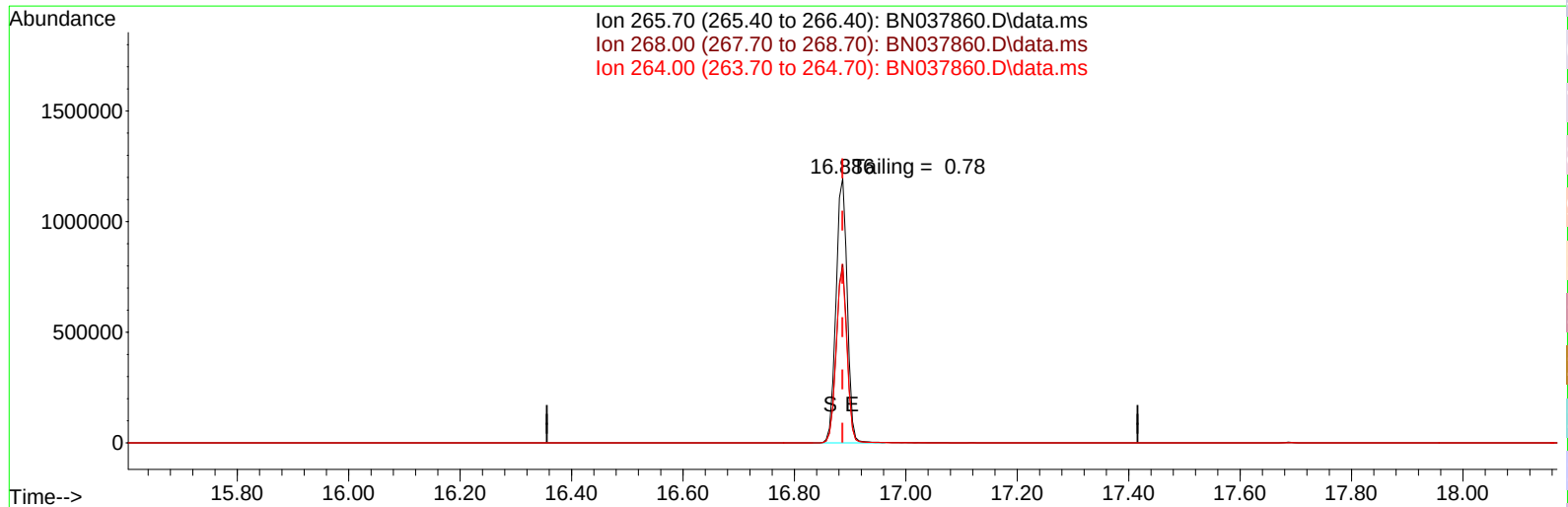
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

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)

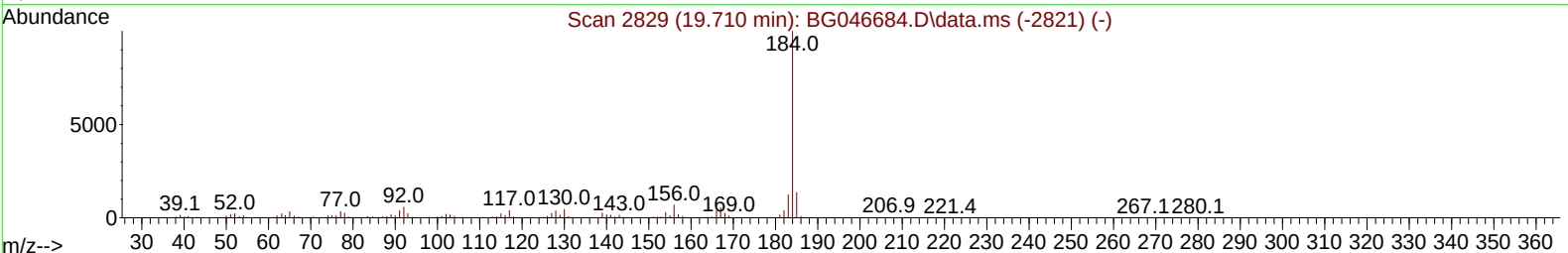
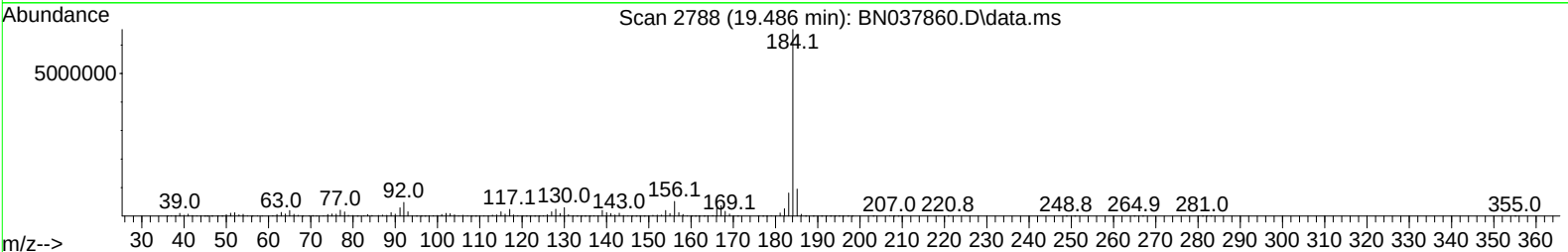
16.886min (+ 0.001) 30744.23 ng

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



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

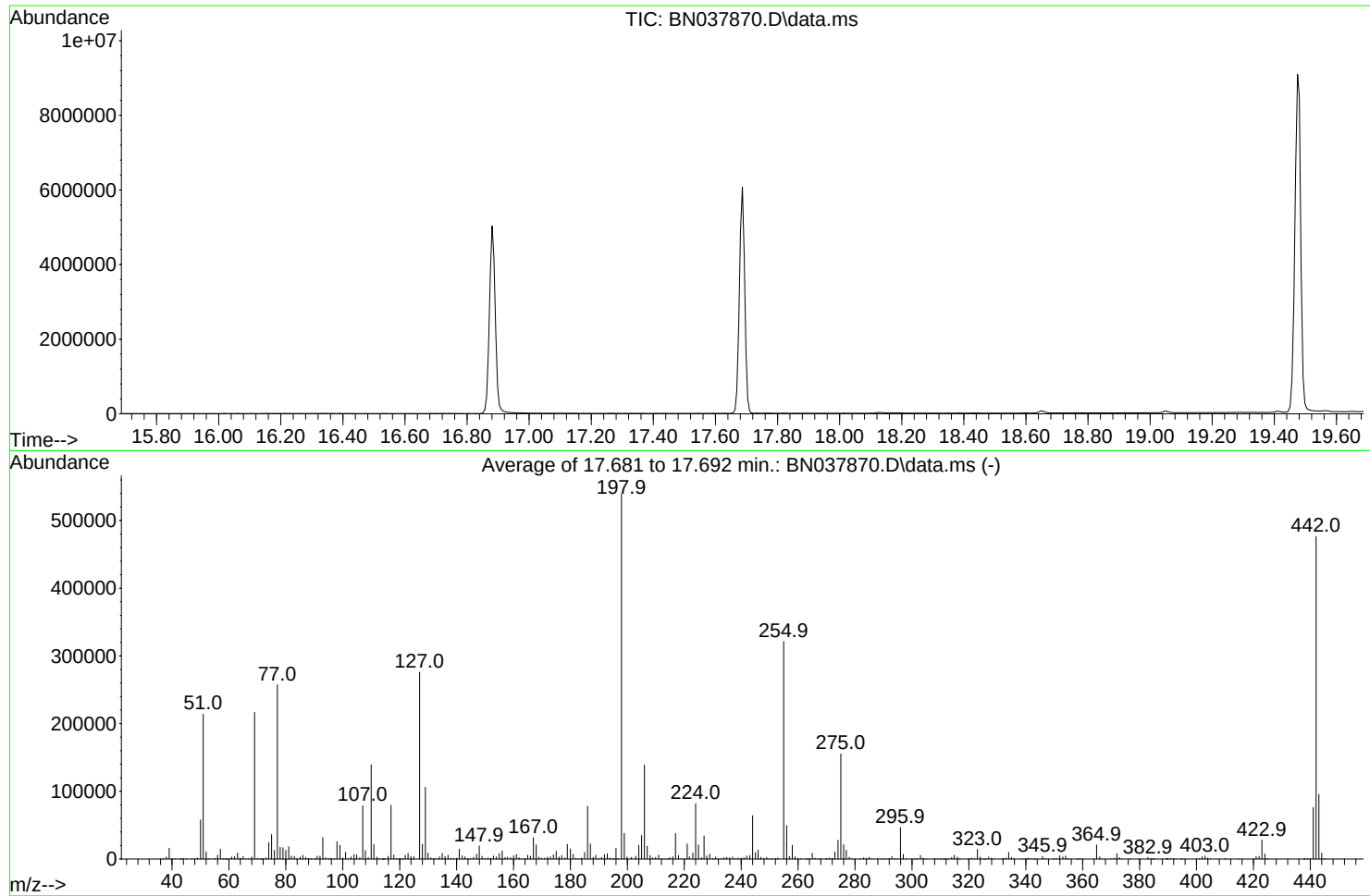
Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	<u>BN037860.D</u>
Compound Name	Response	Retention Time
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11961	4317957	0.28

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
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



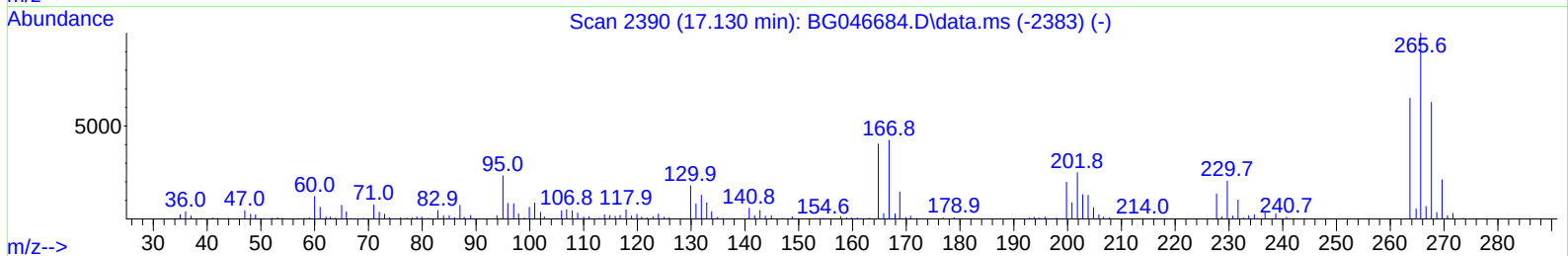
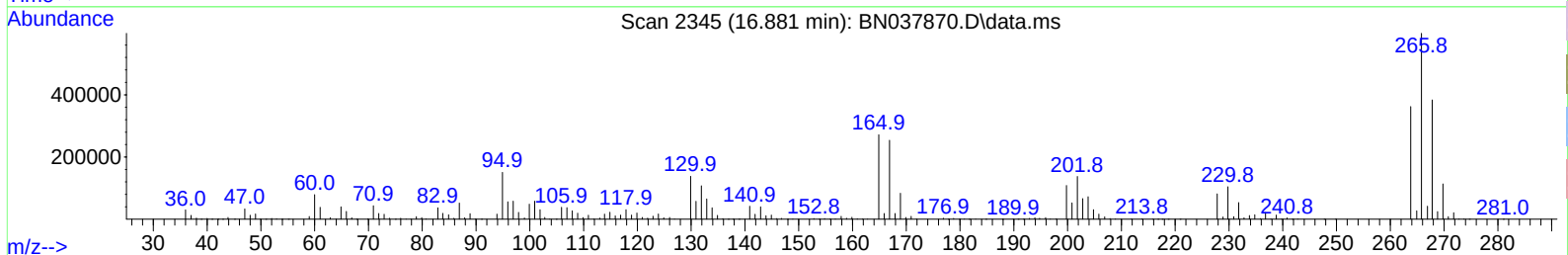
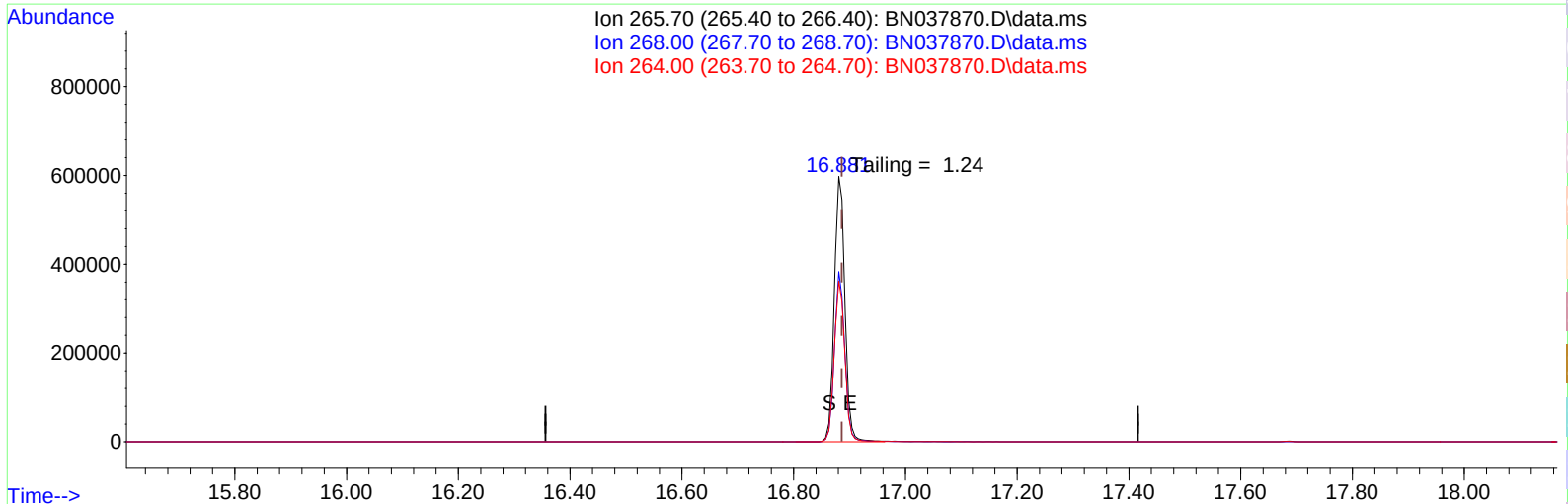
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.5	3143	PASS
69	69	100	100	100.0	216661	PASS
70	69	0.00	2	0.5	1168	PASS
197	198	0.00	2	0.2	839	PASS
198	198	100	100	100.0	539285	PASS
199	198	5	9	7.1	38096	PASS
365	198	1	100	3.8	20696	PASS
441	443	0.01	150	79.6	76072	PASS
442	442	100	100	100.0	476331	PASS
443	442	15	24	20.1	95557	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 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: BN037870.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 29214.29 ng

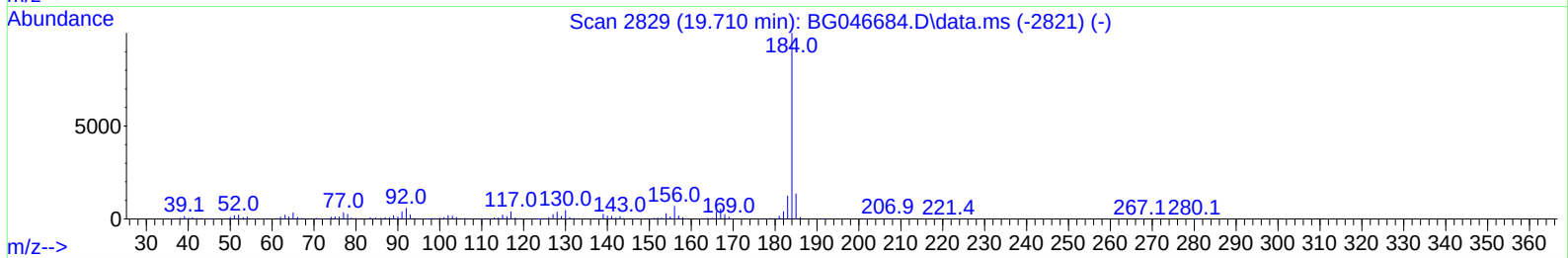
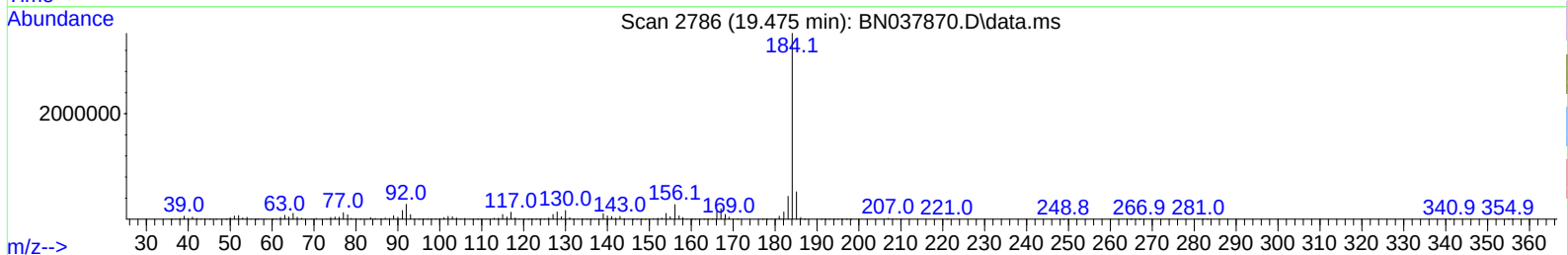
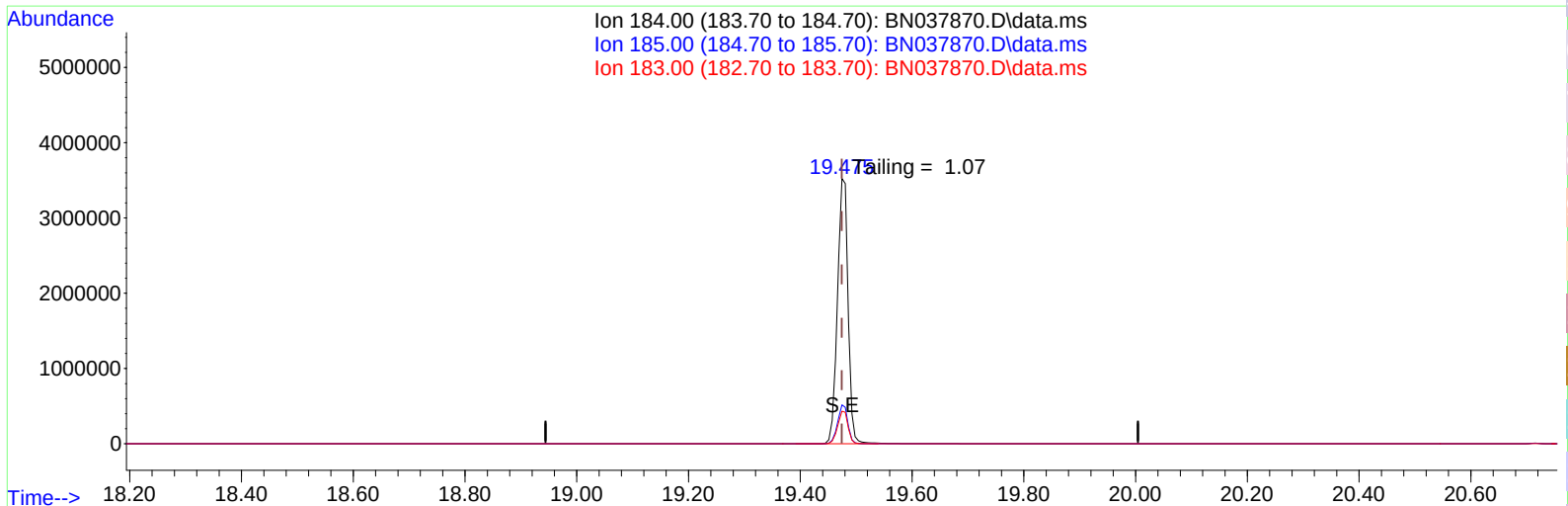
response 795325

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.18
264.00	61.60	60.63
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 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: BN037870.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 4681423

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.71
183.00	13.20	12.33
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

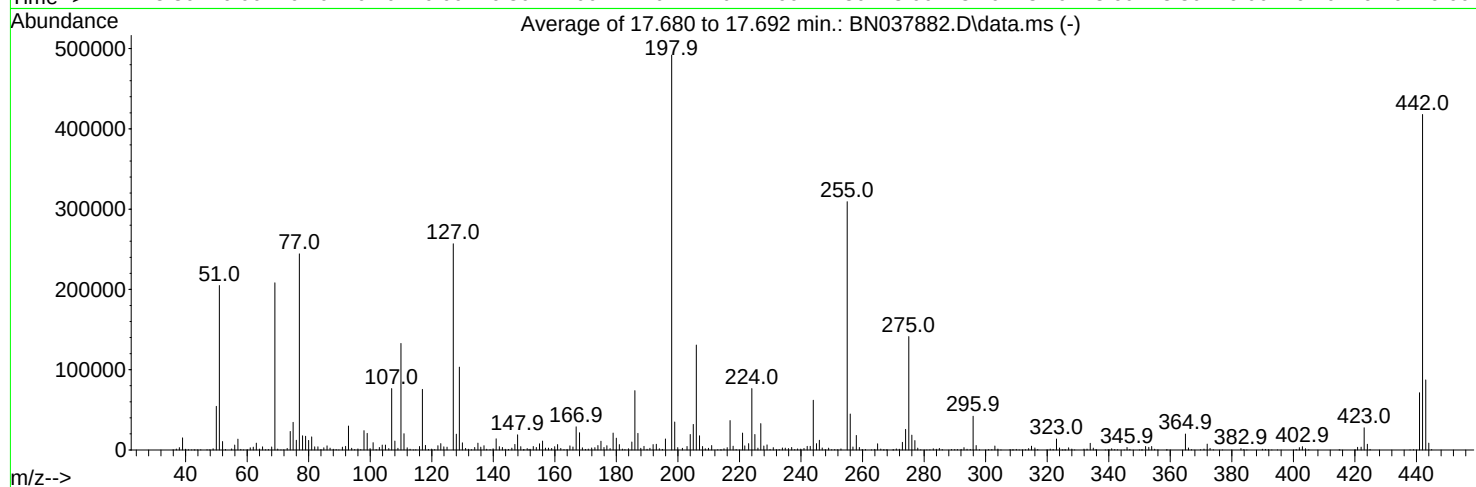
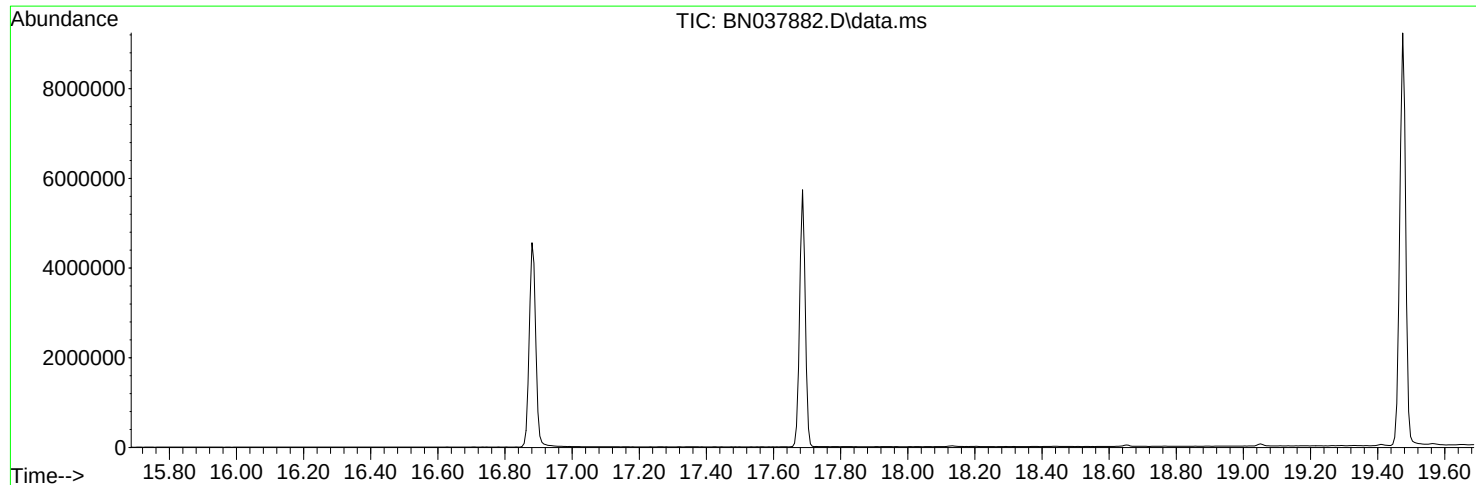
Date	Instrument Name	DFTPP Data File
9/24/2025	BNA_N	<u>BN037870.D</u>
Compound Name	Response	Retention Time
DDT	2091319	20.716
DDD	5093	20.328
DDE	153	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5246	2096565	0.25

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
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



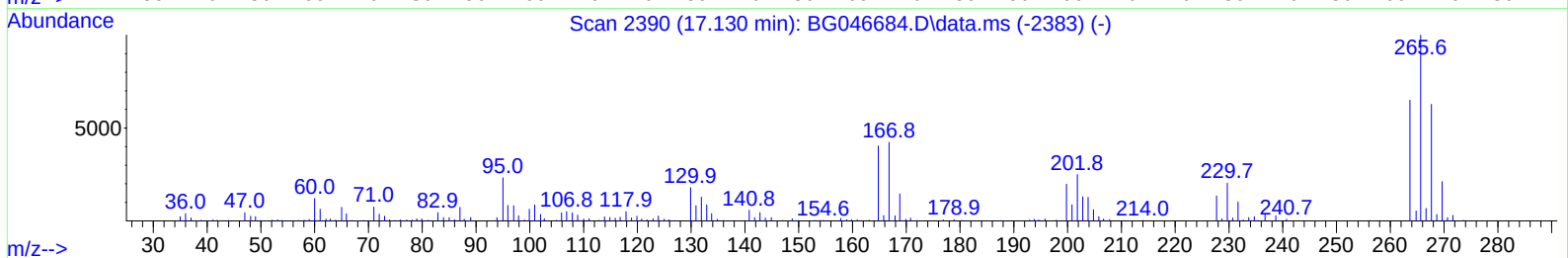
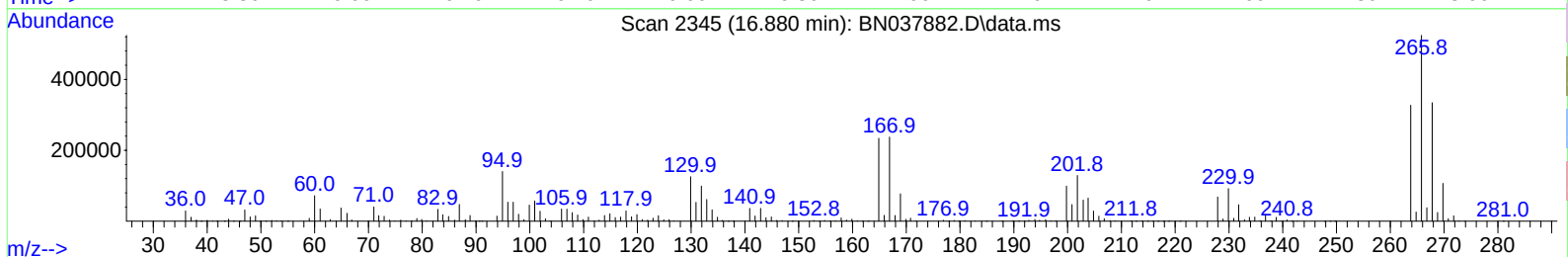
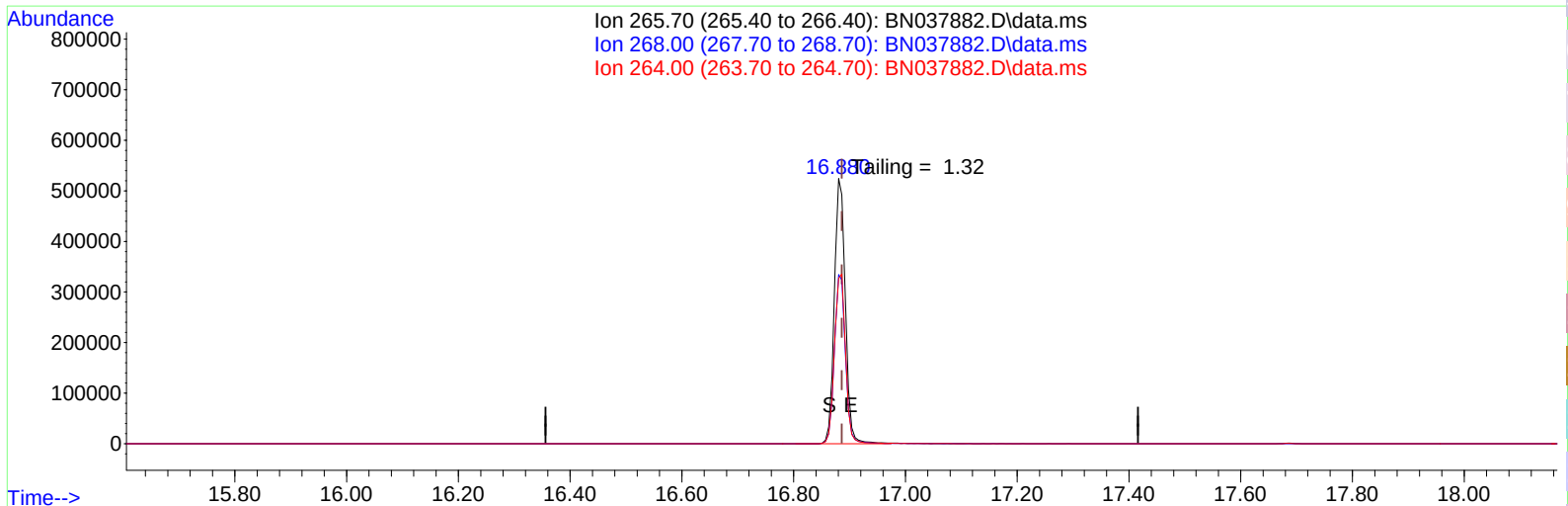
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3756	PASS
69	69	100	100	100.0	208299	PASS
70	69	0.00	2	0.5	1072	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	491925	PASS
199	198	5	9	7.1	34720	PASS
365	198	1	100	4.0	19900	PASS
441	443	0.01	150	81.7	71253	PASS
442	442	100	100	100.0	417920	PASS
443	442	15	24	20.9	87163	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 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: BN037882.D\data.ms

(70) Pentachlorophenol (C)

16.880min (-0.006) 31548.12 ng

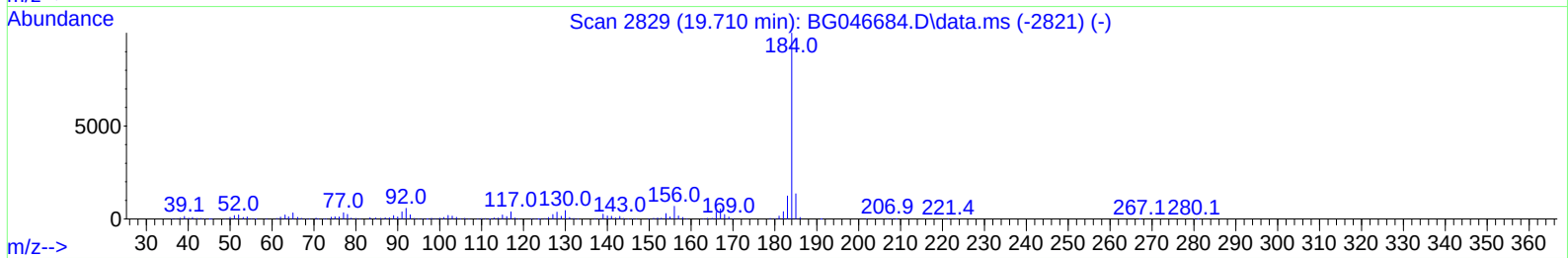
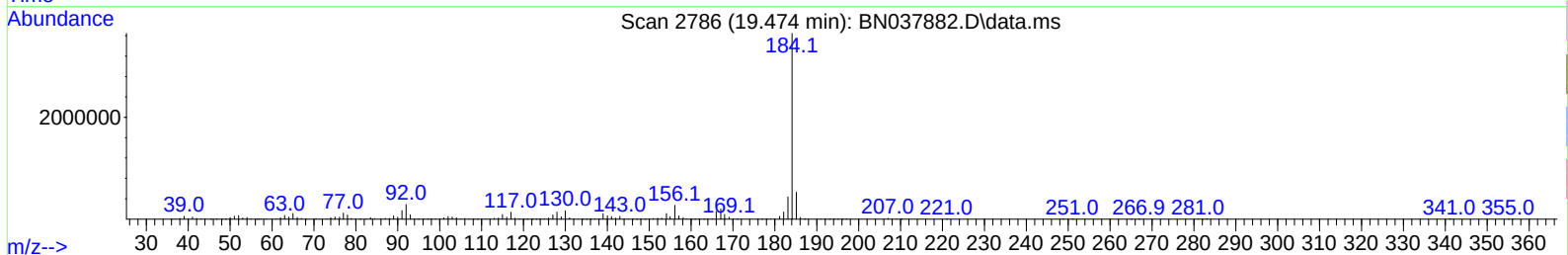
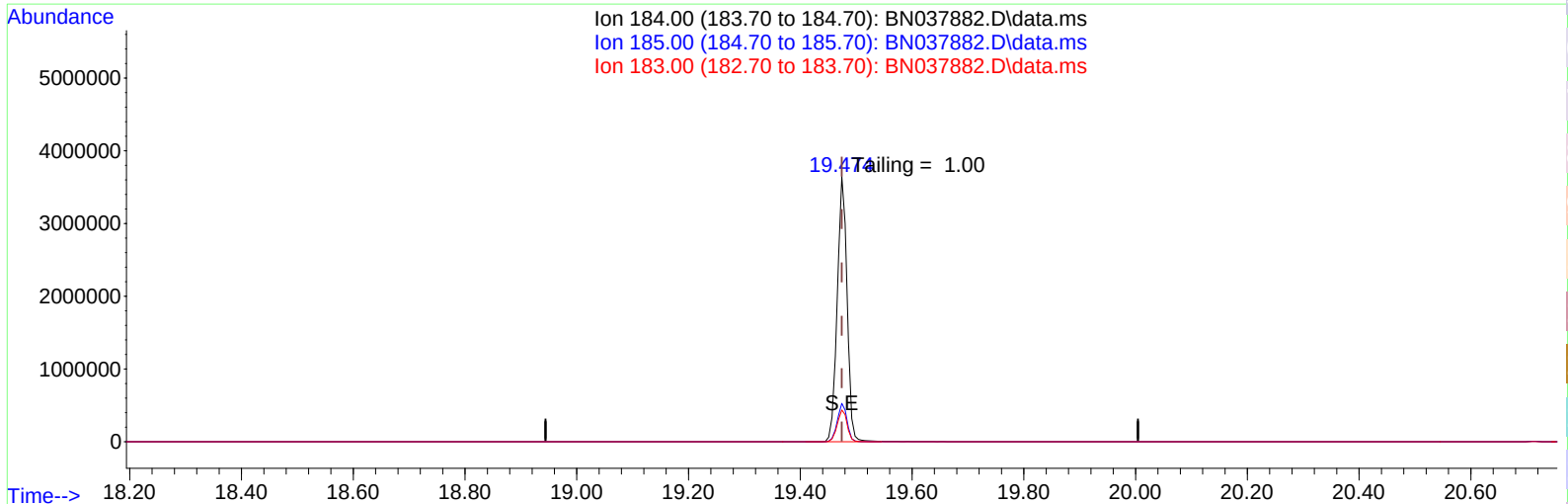
response 718482

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.80
264.00	61.60	62.36
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 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: BN037882.D\data.ms

(77) Benizidine

19.474min (+ 0.000) 0.00 ng

response 4502688

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.03
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/25/2025	BNA_N	<u>BN037882.D</u>
Compound Name	Response	Retention Time
DDT	1891737	20.716
DDD	7741	20.327
DDE	257	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7998	1899735	0.42

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169693BL	SDG No.:	Q3097
Lab Sample ID:	PB169693BL	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
BN037777.D	1	09/15/25 12:00	09/18/25 15:10	PB169693

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	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6670	7.84				
1146-65-2	Naphthalene-d8	17000	10.637				
15067-26-2	Acenaphthene-d10	7050	14.484				
1517-22-2	Phenanthrene-d10	11700	17.236				
1719-03-5	Chrysene-d12	9220	21.411				
1520-96-3	Perylene-d12	9000	23.75				

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\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	6667	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	17045	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	7049	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	11652	0.400	ng	0.00
29) Chrysene-d12	21.411	240	9221	0.400	ng	# 0.00
35) Perylene-d12	23.750	264	9002	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5270	0.344	ng	0.00
5) Phenol-d6	6.988	99	6284	0.317	ng	0.00
8) Nitrobenzene-d5	8.982	82	4777	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7427	0.329	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	384	0.209	ng	0.00
15) 2-Fluorobiphenyl	13.116	172	11632	0.395	ng	0.00
27) Fluoranthene-d10	19.267	212	9319	0.319	ng	0.00
31) Terphenyl-d14	19.866	244	6747	0.361	ng	0.00

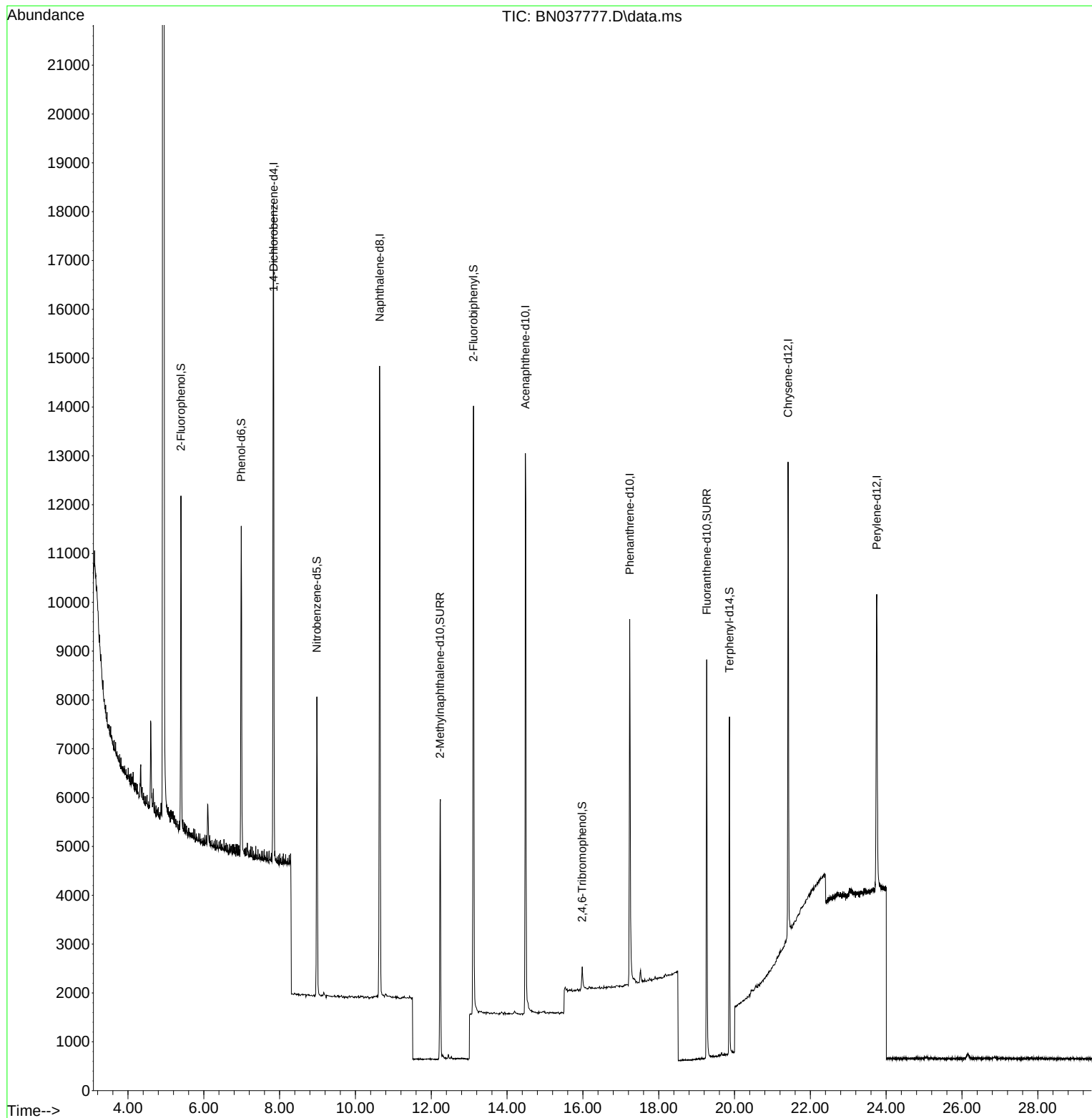
Target Compounds	Qvalue
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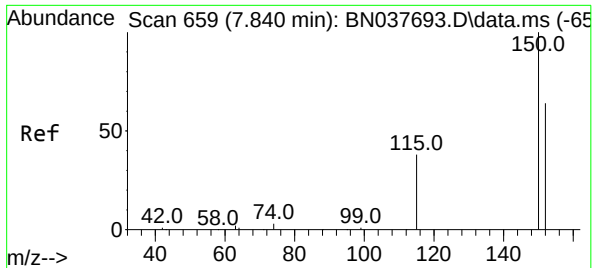
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037777.D
Acq On : 18 Sep 2025 15:10
Operator : RC/JU
Sample : PB169693BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BL

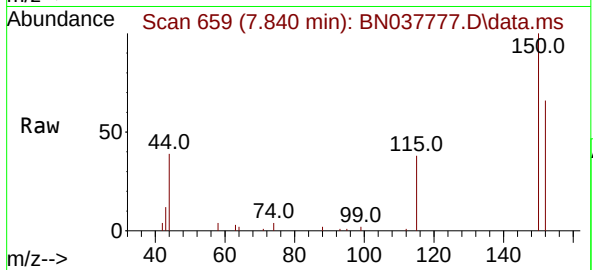
Quant Time: Sep 18 15:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



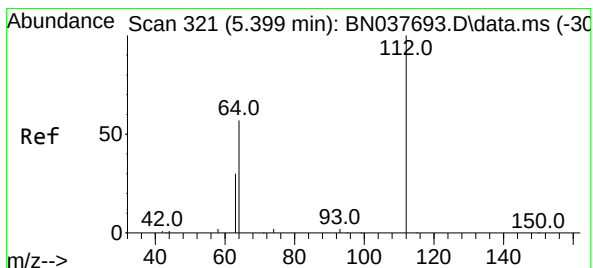
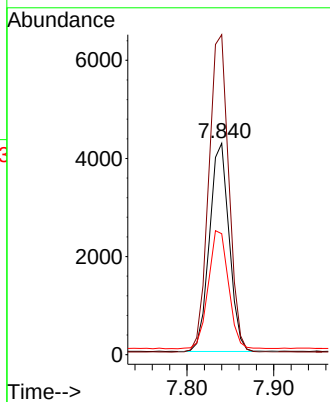


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Instrument :
BNA_N
ClientSampleId :
PB169693BL

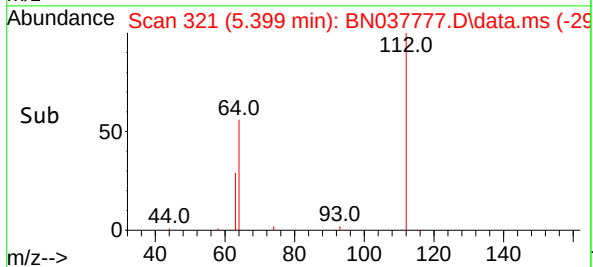
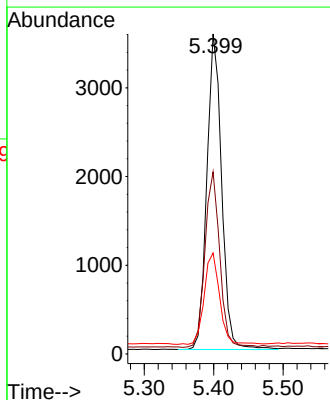
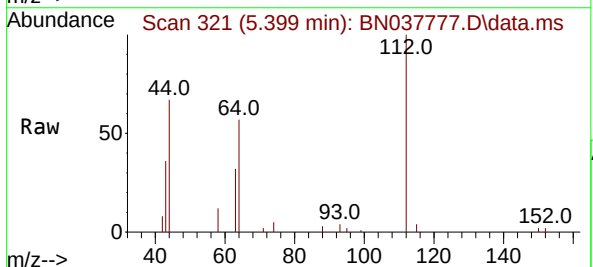


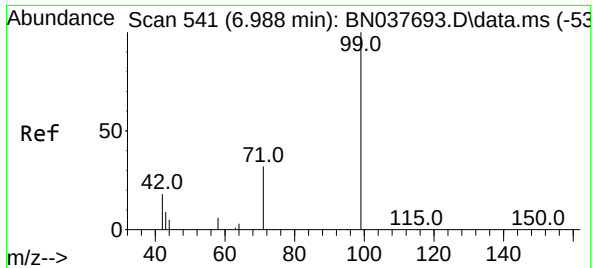
Tgt Ion:152 Resp: 6667
Ion Ratio Lower Upper
152 100
150 151.3 124.5 186.7
115 57.2 49.2 73.8



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:112 Resp: 5270
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 30.1 24.7 37.1

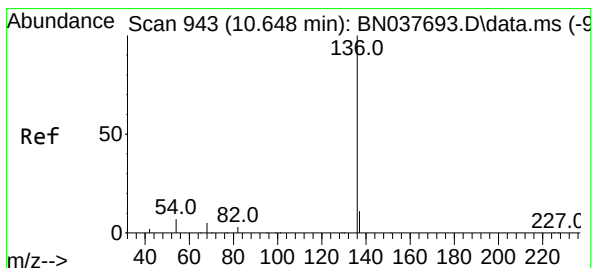
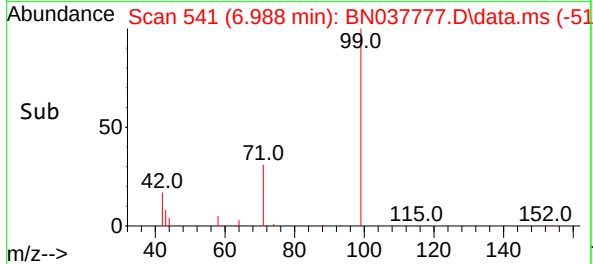
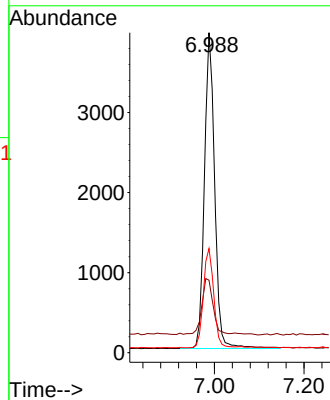
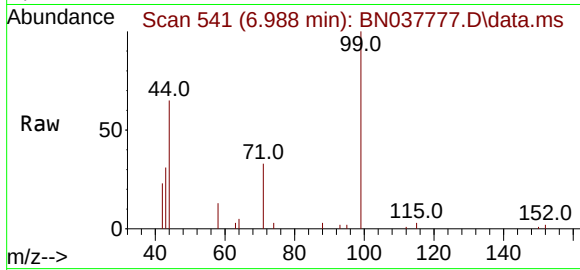




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

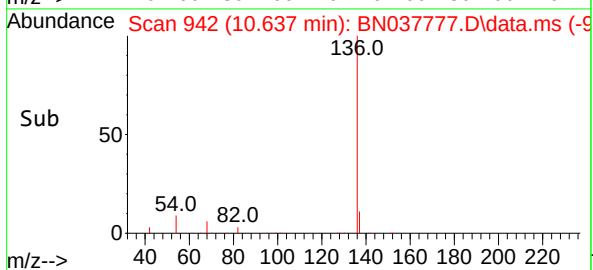
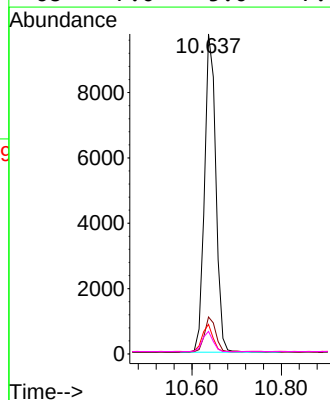
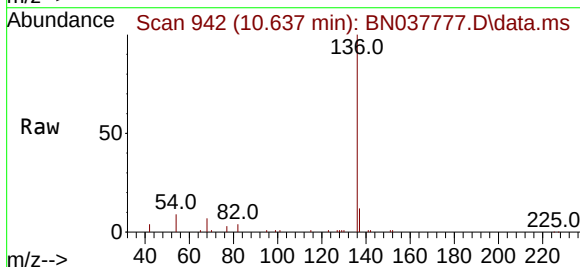
Instrument :
BNA_N
ClientSampleId :
PB169693BL

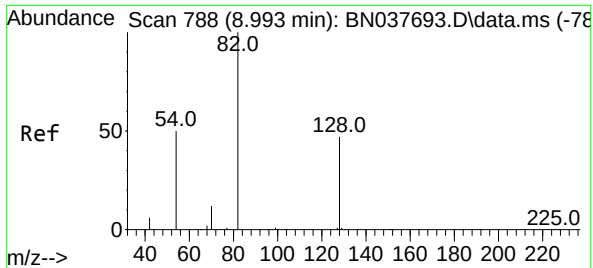
Tgt Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.6	24.8
71	31.6	26.7	40.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.3	6.3	9.5
68	7.0	5.0	7.4

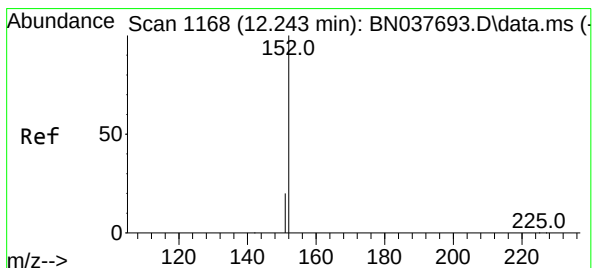
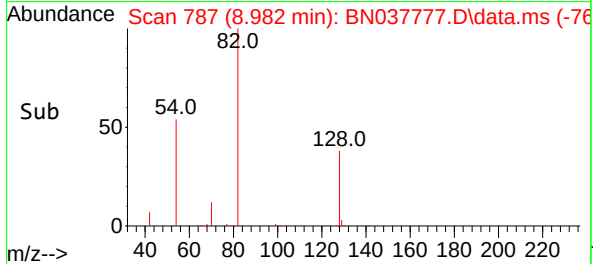
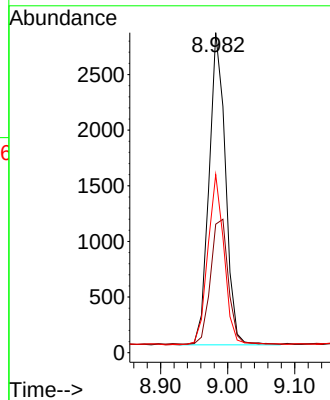
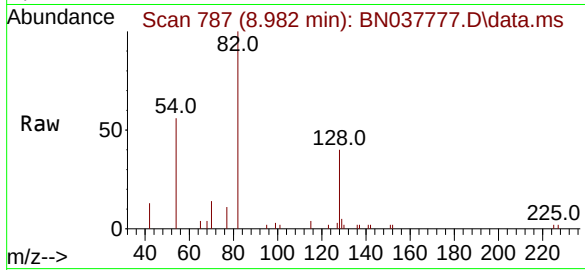




#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.982 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

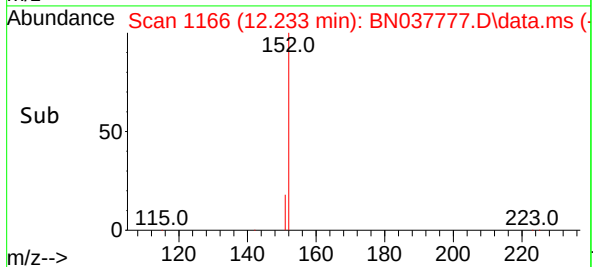
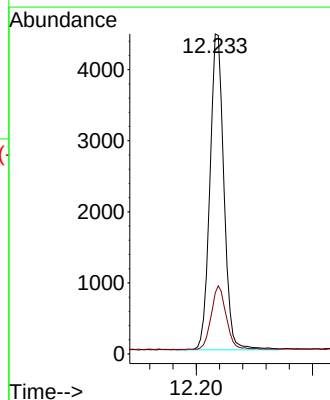
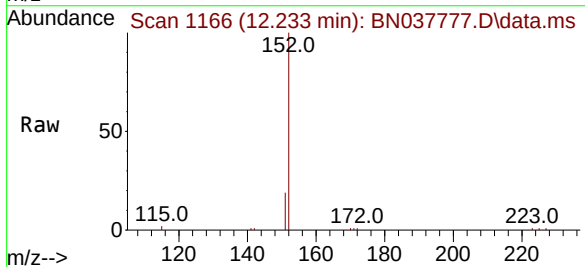
Instrument :
BNA_N
ClientSampleId :
PB169693BL

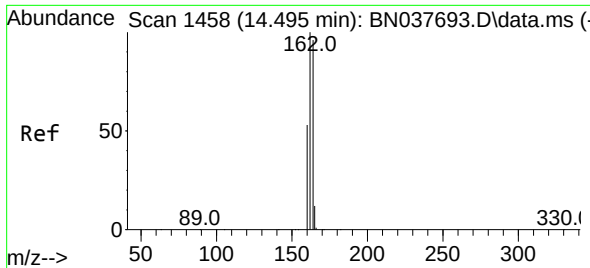
Tgt Ion:	82	Resp:	4777
Ion	Ratio	Lower	Upper
82	100		
128	40.2	38.3	57.5
54	55.6	41.4	62.2



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:	152	Resp:	7427
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

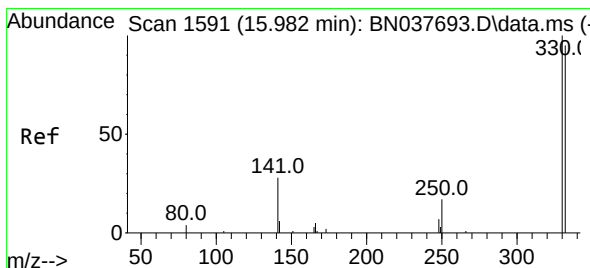
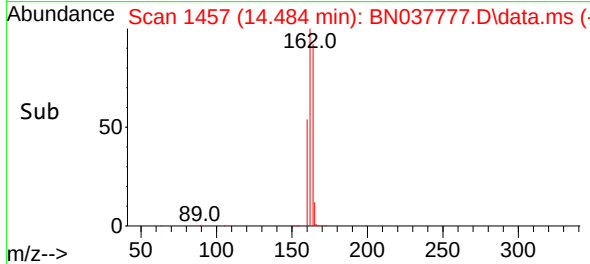
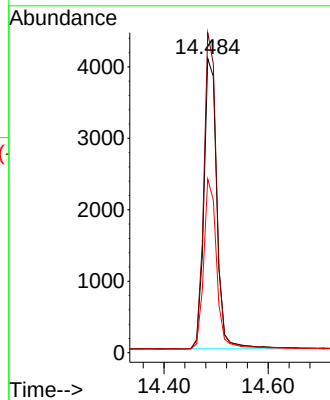
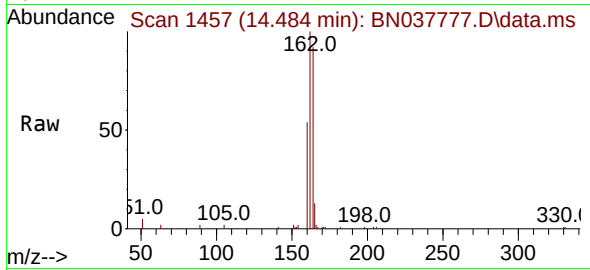




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

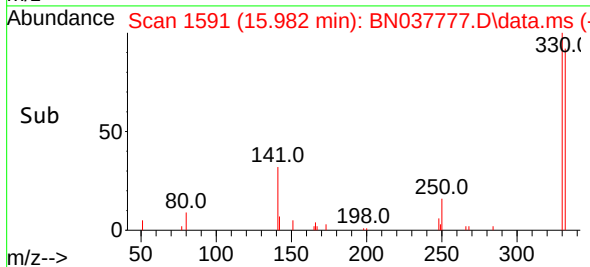
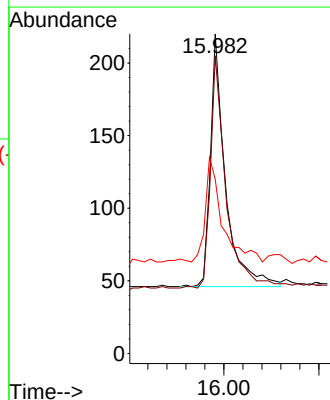
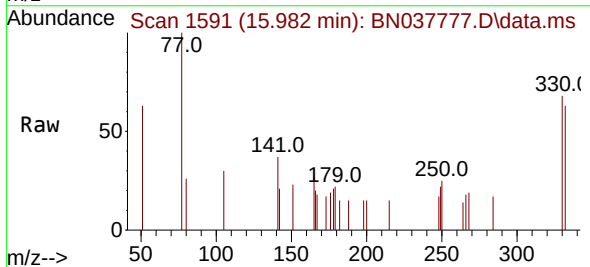
Instrument :
BNA_N
ClientSampleId :
PB169693BL

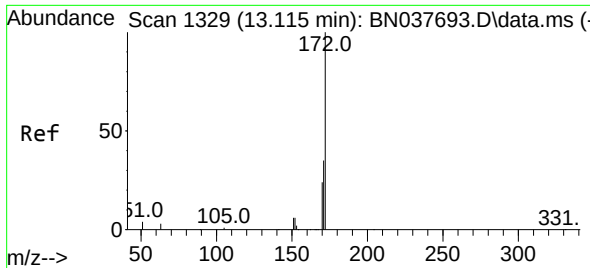
Tgt Ion:164 Resp: 7049
Ion Ratio Lower Upper
164 100
162 108.8 83.1 124.7
160 59.1 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:330 Resp: 384
Ion Ratio Lower Upper
330 100
332 94.0 75.3 112.9
141 46.1 35.0 52.4

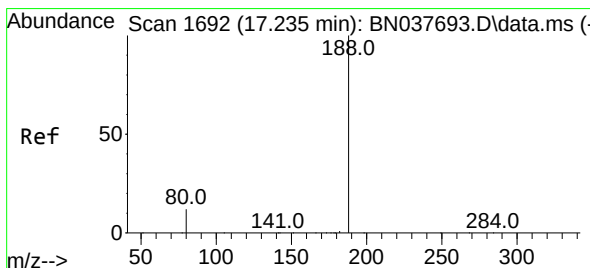
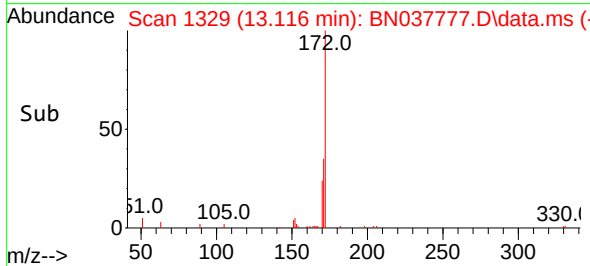
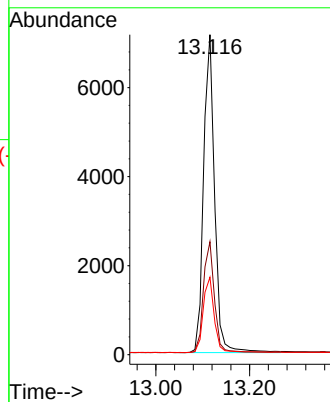
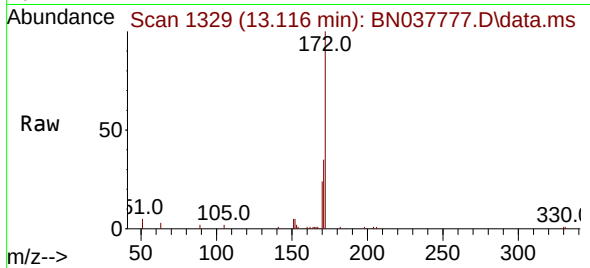




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

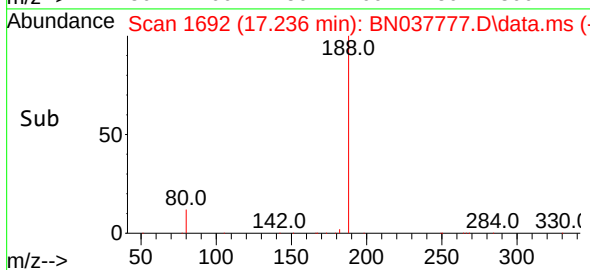
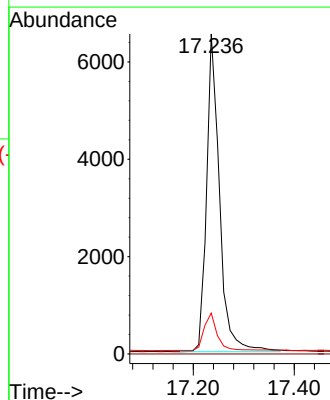
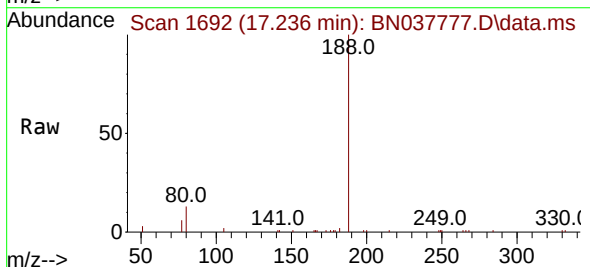
Instrument :
BNA_N
ClientSampleId :
PB169693BL

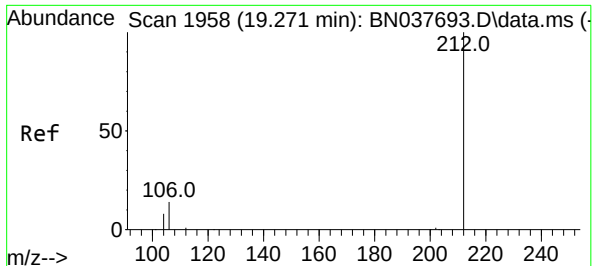
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.2	19.8	29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	10.6	15.8





#27

Fluoranthene-d10

Concen: 0.319 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.005 min

Lab File: BN037777.D

Acq: 18 Sep 2025 15:10

Instrument :

BNA_N

ClientSampleId :

PB169693BL

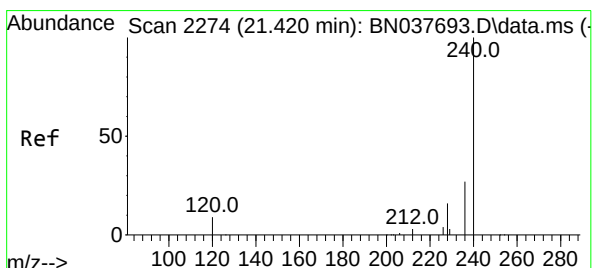
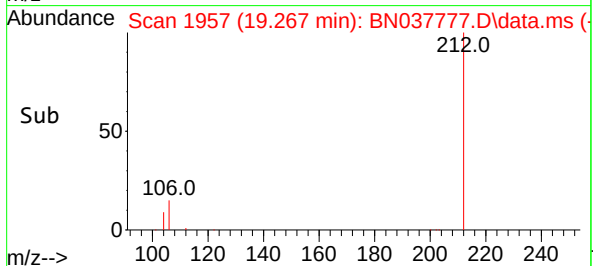
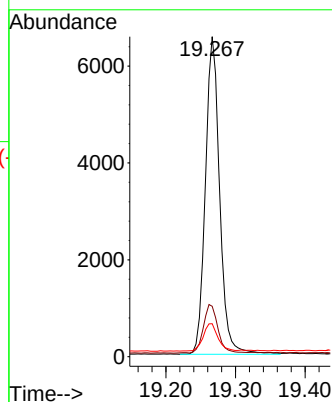
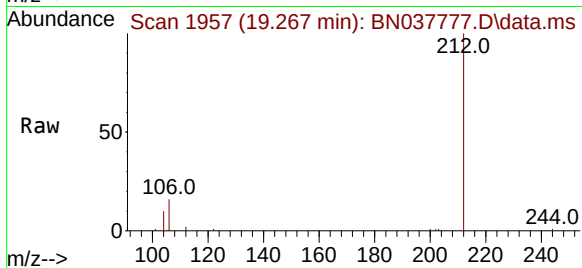
Tgt Ion:212 Resp: 9319

Ion Ratio Lower Upper

212 100

106 15.7 12.2 18.2

104 8.9 6.9 10.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037777.D

Acq: 18 Sep 2025 15:10

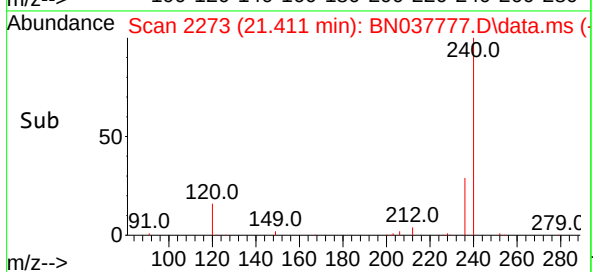
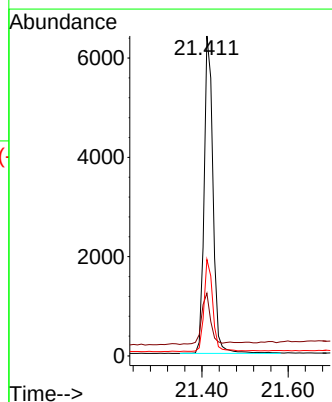
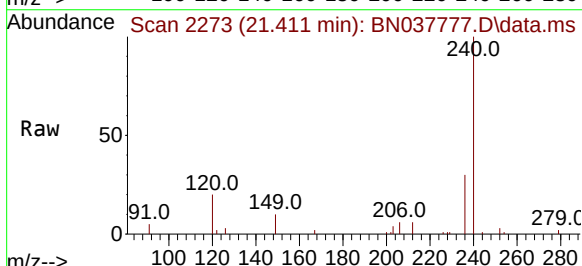
Tgt Ion:240 Resp: 9221

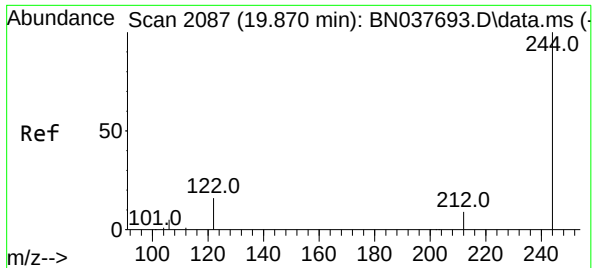
Ion Ratio Lower Upper

240 100

120 19.6 9.2 13.8#

236 30.1 22.6 33.8

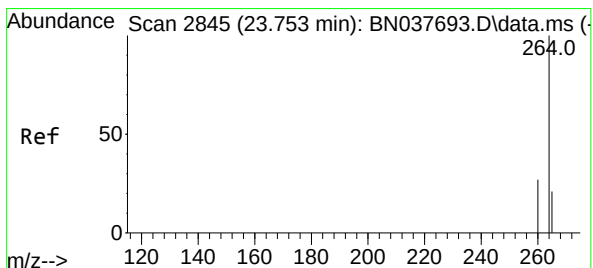
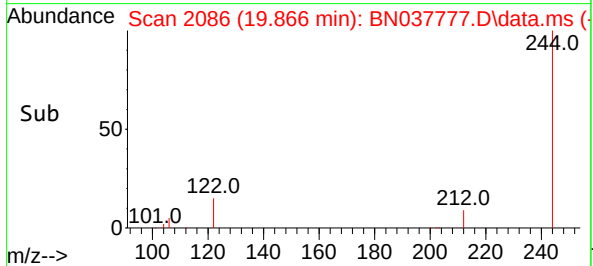
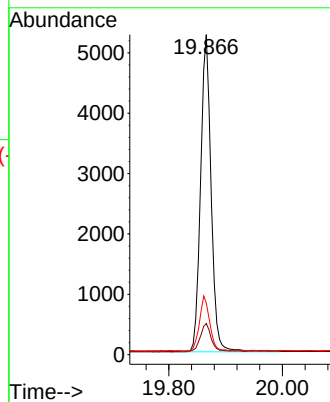
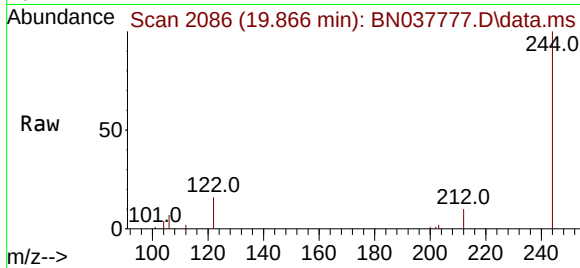




#31
Terphenyl-d14
Concen: 0.361 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

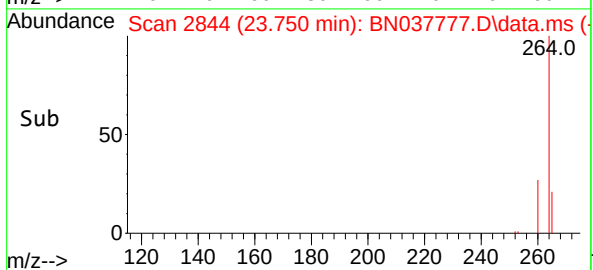
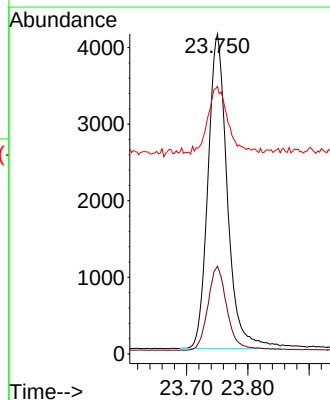
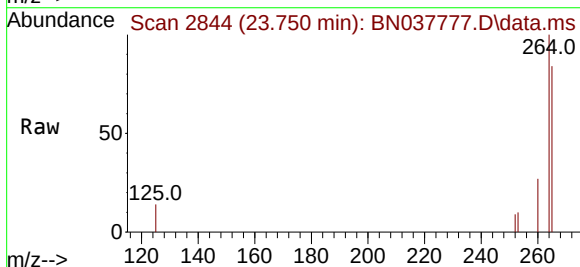
Instrument :
BNA_N
ClientSampleId :
PB169693BL

Tgt Ion:244 Resp: 6747
Ion Ratio Lower Upper
244 100
212 9.8 7.5 11.3
122 16.2 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.750 min Scan# 2844
Delta R.T. -0.003 min
Lab File: BN037777.D
Acq: 18 Sep 2025 15:10

Tgt Ion:264 Resp: 9002
Ion Ratio Lower Upper
264 100
260 27.4 21.8 32.8
265 83.6 39.4 59.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BL	SDG No.:	Q3097
Lab Sample ID:	PB169712BL	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
BN037872.D	1	09/16/25 09:39	09/24/25 10:32	PB169712

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6890	7.826				
1146-65-2	Naphthalene-d8	18300	10.626				
15067-26-2	Acenaphthene-d10	8440	14.473				
1517-22-2	Phenanthrene-d10	16600	17.223				
1719-03-5	Chrysene-d12	13500	21.402				
1520-96-3	Perylene-d12	12200	23.733				

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\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Quant Time: Sep 24 11:11:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.826	152	6892	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18348	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8435	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16554	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13474	0.400	ng	0.00
35) Perylene-d12	23.733	264	12150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5578	0.355	ng	0.00
5) Phenol-d6	6.981	99	7183	0.348	ng	0.00
8) Nitrobenzene-d5	8.971	82	5321	0.380	ng	0.00
11) 2-Methylnaphthalene-d10	12.223	152	8254	0.324	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	405	0.127	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	13344	0.386	ng	0.01
27) Fluoranthene-d10	19.257	212	14829	0.356	ng	0.00
31) Terphenyl-d14	19.852	244	10869	0.405	ng	0.00

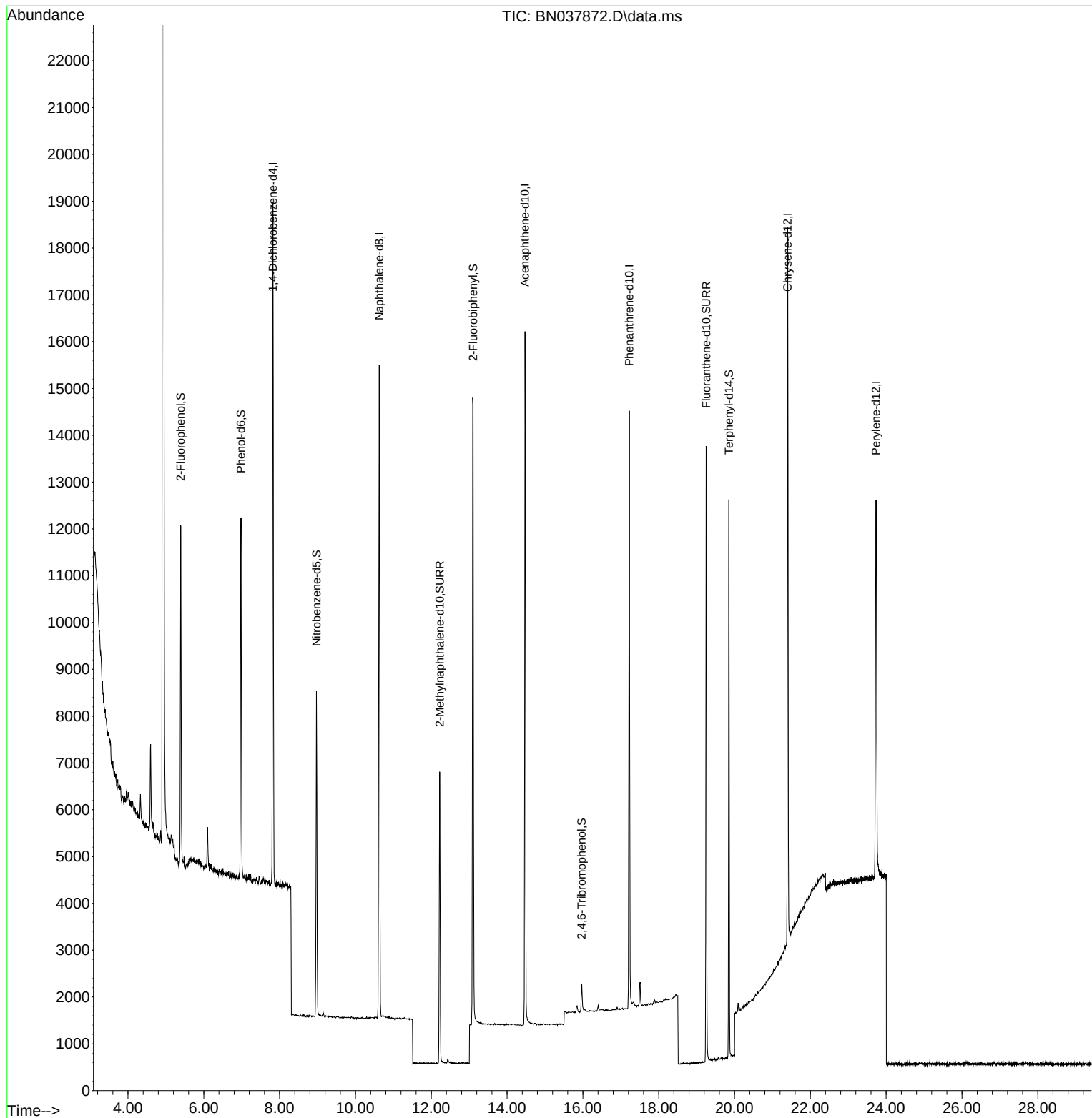
Target Compounds	Qvalue
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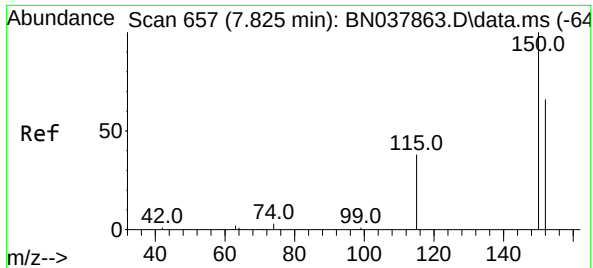
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

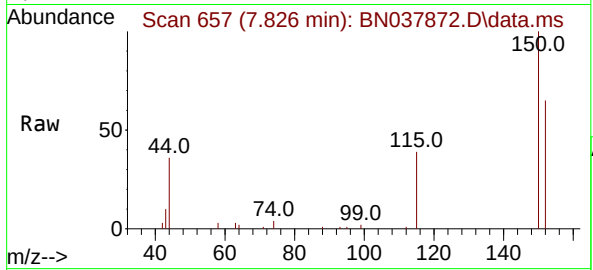
Quant Time: Sep 24 11:11:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



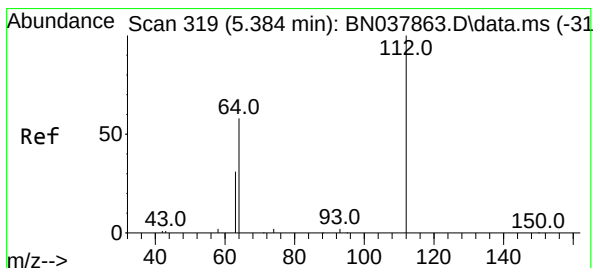
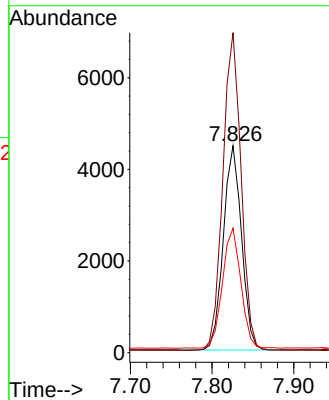
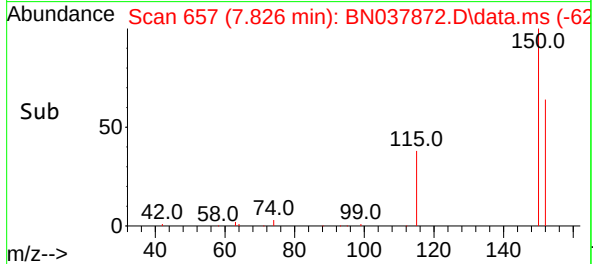


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

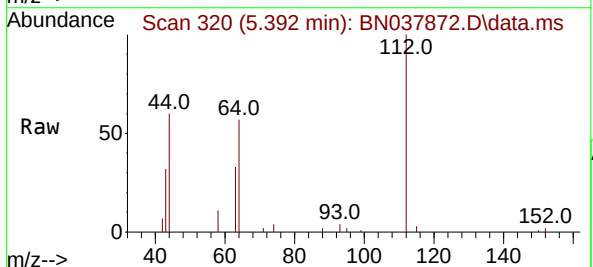
Instrument :
BNA_N
ClientSampleId :
PB169712BL



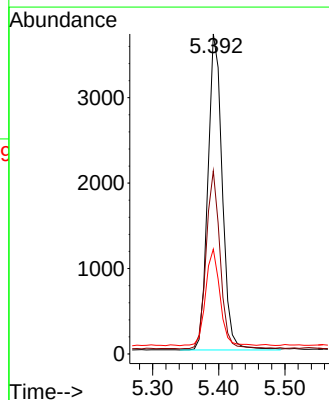
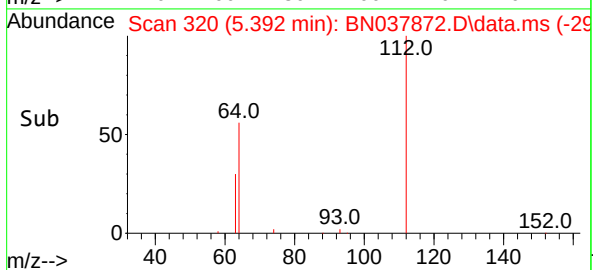
Tgt Ion:152 Resp: 6892
Ion Ratio Lower Upper
152 100
150 154.7 121.0 181.4
115 60.1 47.4 71.0

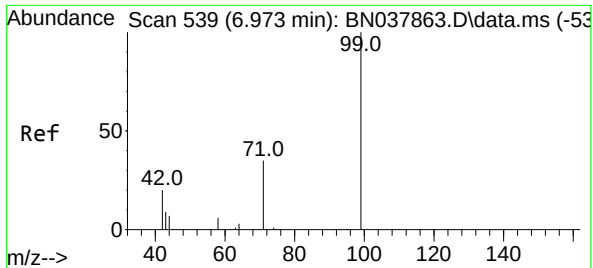


#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32



Tgt Ion:112 Resp: 5578
Ion Ratio Lower Upper
112 100
64 55.1 44.6 66.8
63 30.2 24.9 37.3

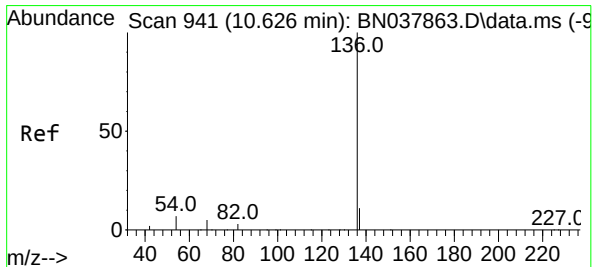
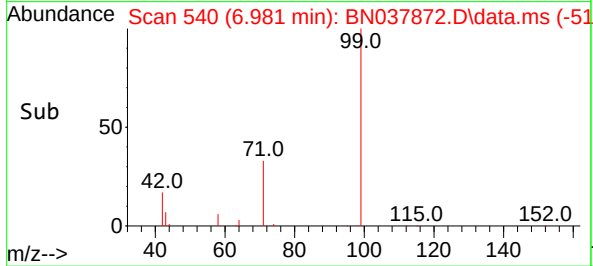
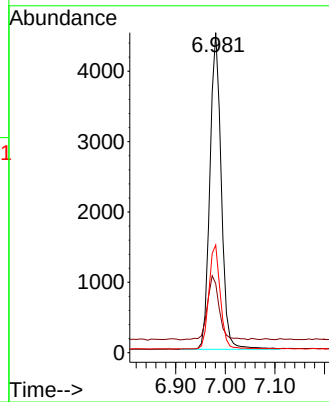
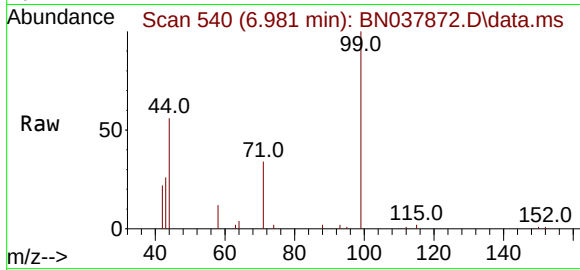




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.981 min Scan# 540
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

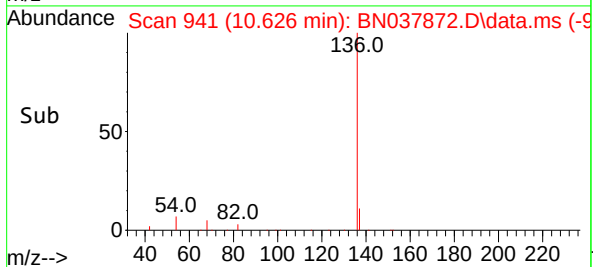
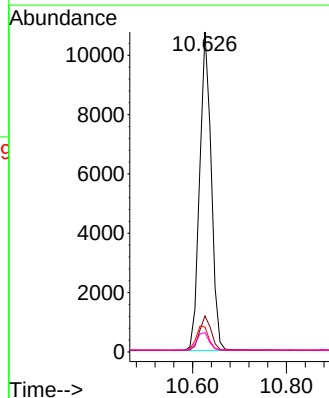
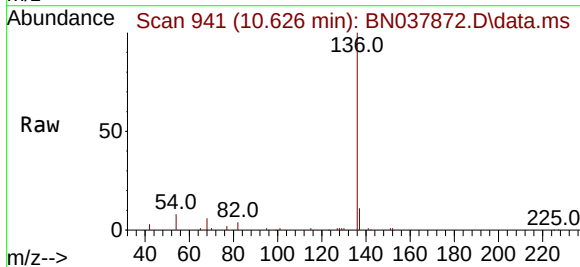
Instrument :
BNA_N
ClientSampleId :
PB169712BL

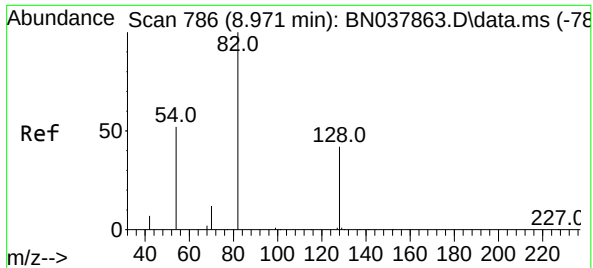
Tgt Ion:	99	Resp:	7183
Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.2	25.8
71	33.2	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:	136	Resp:	18348
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.8	5.8	8.8
68	6.1	4.3	6.5

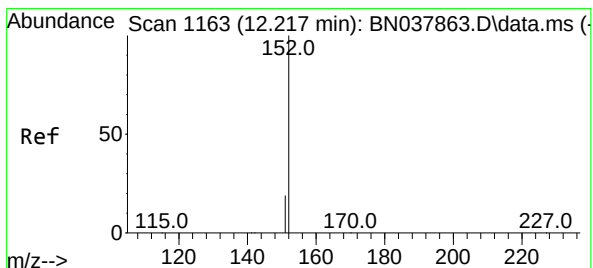
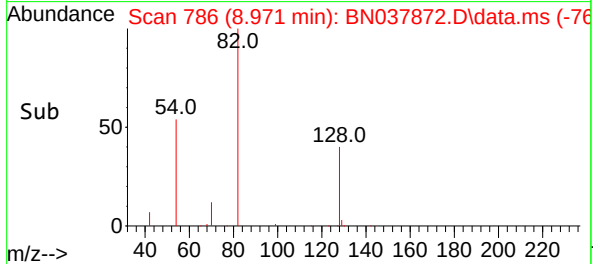
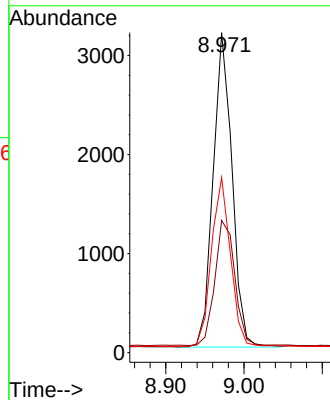
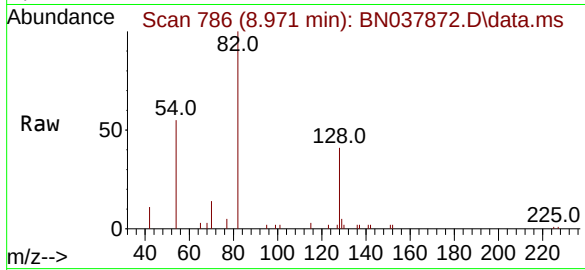




#8
Nitrobenzene-d5
Concen: 0.380 ng
RT: 8.971 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

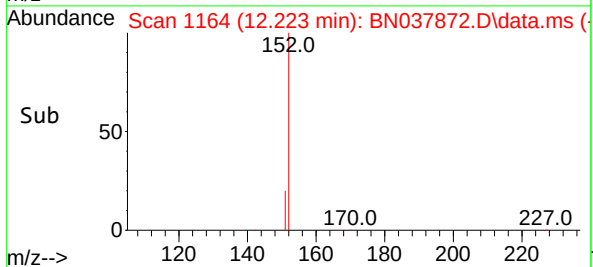
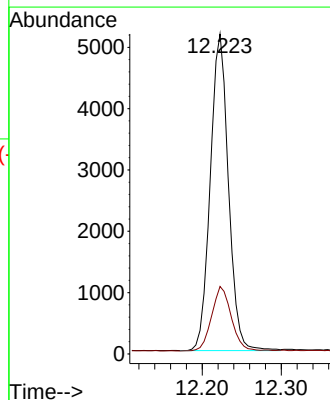
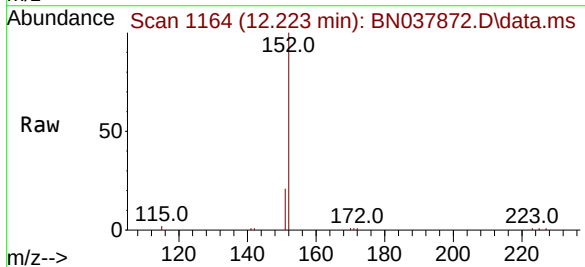
Instrument :
BNA_N
ClientSampleId :
PB169712BL

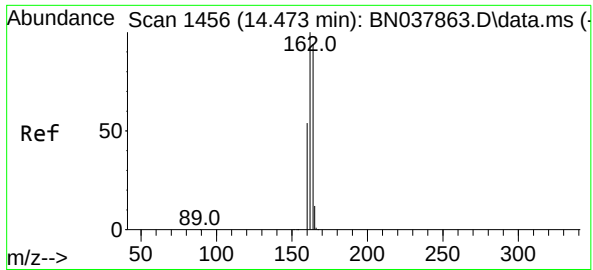
Tgt Ion:	82	Resp:	5321
Ion	Ratio	Lower	Upper
82	100		
128	41.3	34.8	52.2
54	54.8	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.223 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:	152	Resp:	8254
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.4	26.2

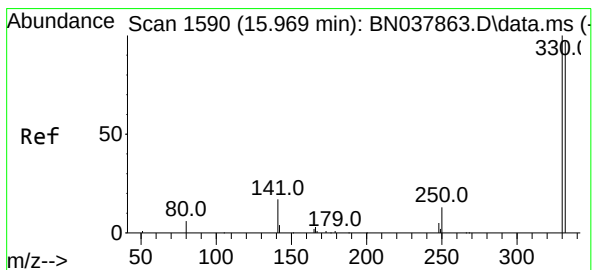
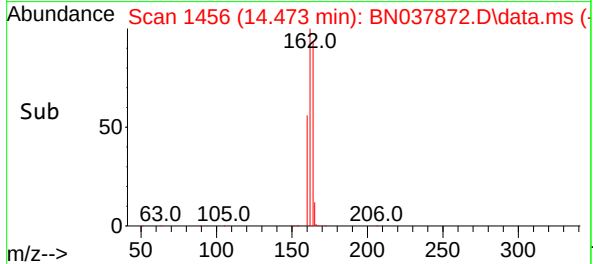
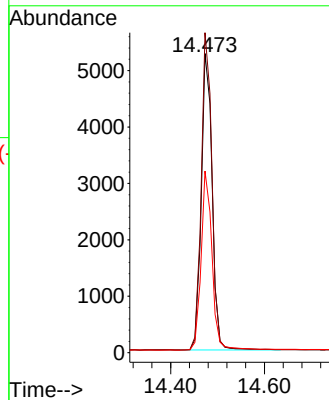
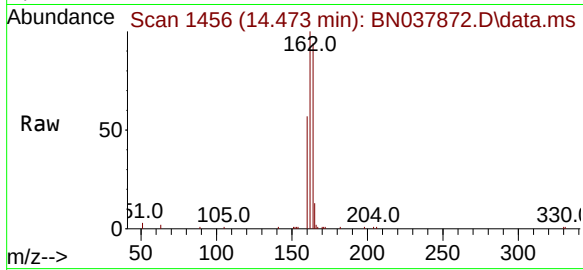




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

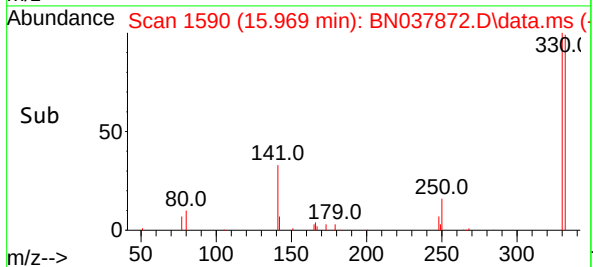
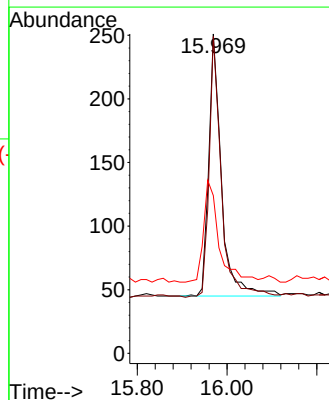
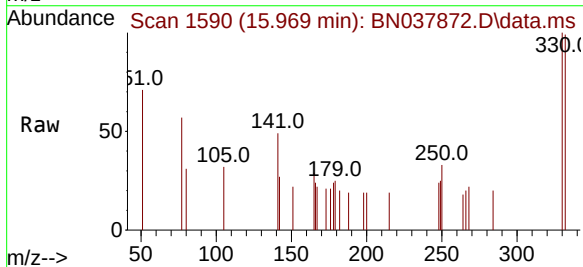
Instrument :
BNA_N
ClientSampleId :
PB169712BL

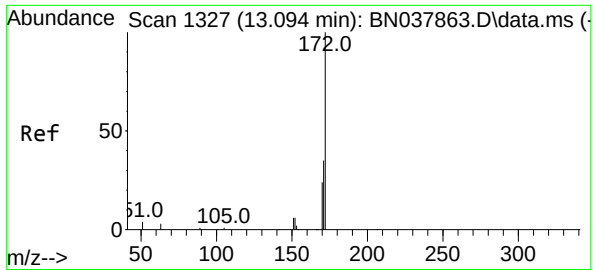
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.8	127.2
160	60.7	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.127 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.2	115.8
141	46.4	37.2	55.8

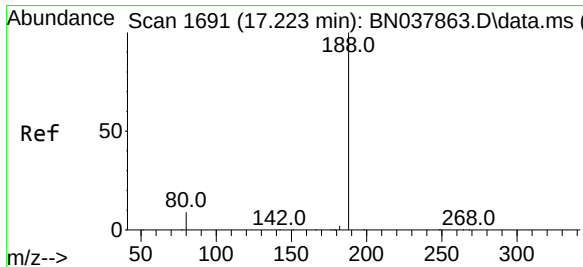
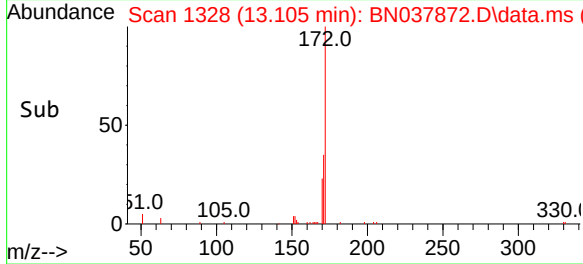
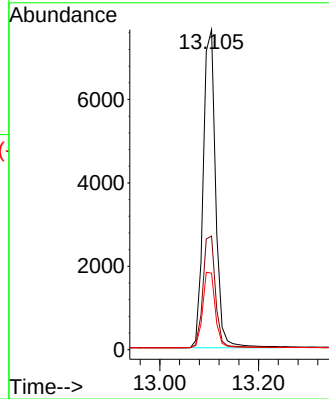
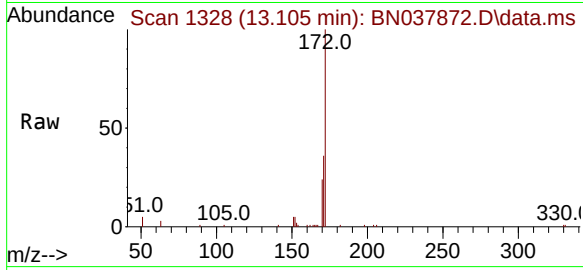




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 1327
Delta R.T. 0.011 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

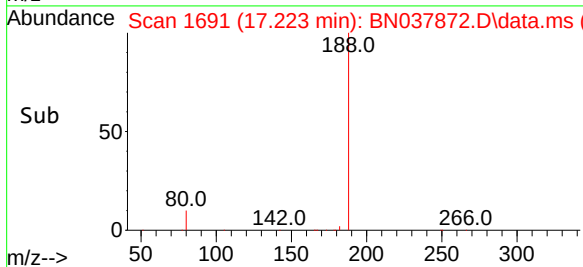
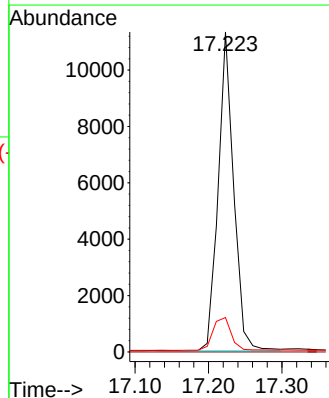
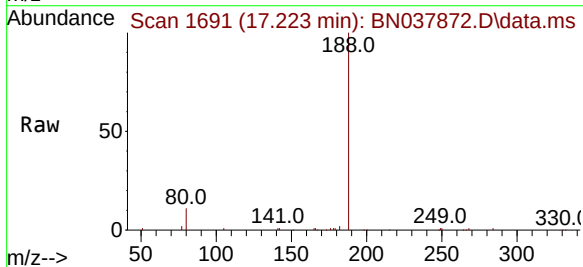
Instrument :
BNA_N
ClientSampleId :
PB169712BL

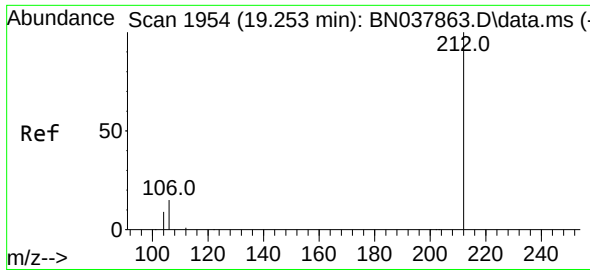
Tgt Ion:	172	Resp:	13344
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	43.0
170	23.9	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:	188	Resp:	16554
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.7	7.6	11.4





#27

Fluoranthene-d10

Concen: 0.356 ng

RT: 19.257 min Scan# 1955

Delta R.T. 0.005 min

Lab File: BN037872.D

Acq: 24 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

PB169712BL

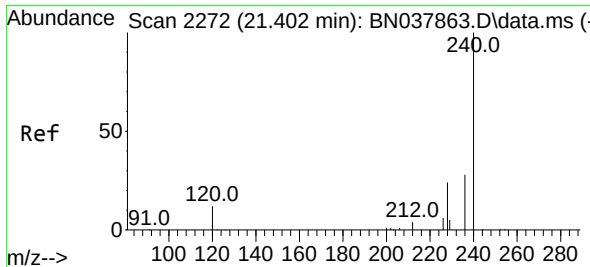
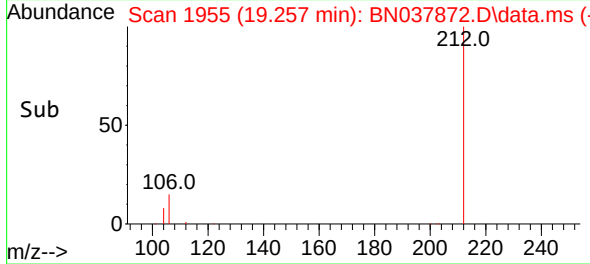
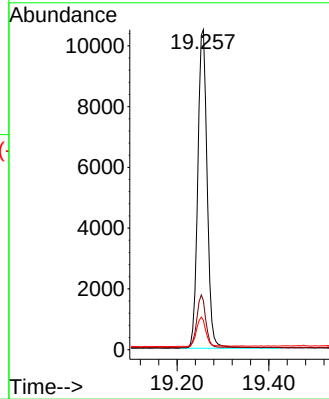
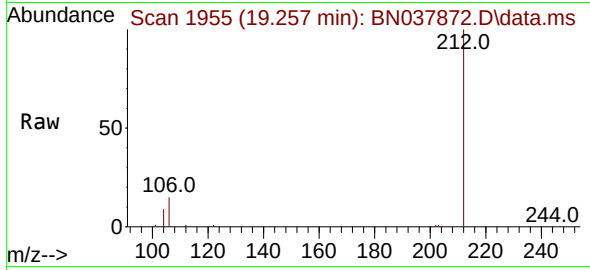
Tgt Ion:212 Resp: 14829

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.3 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: BN037872.D

Acq: 24 Sep 2025 10:32

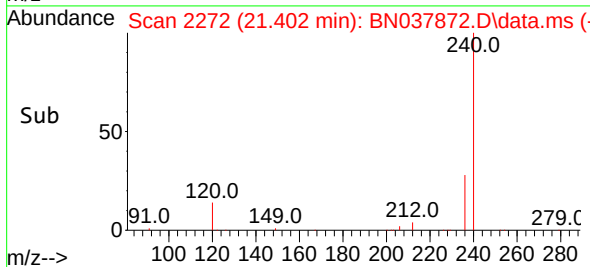
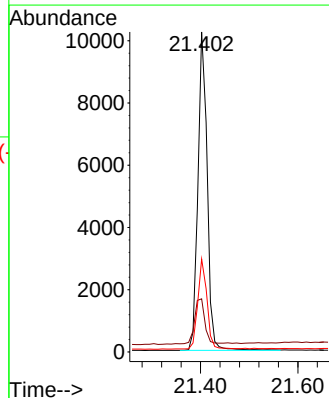
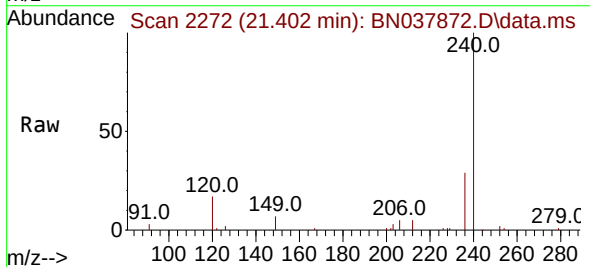
Tgt Ion:240 Resp: 13474

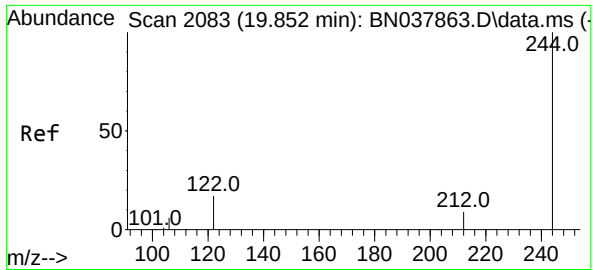
Ion Ratio Lower Upper

240 100

120 16.6 11.4 17.2

236 29.1 23.0 34.6

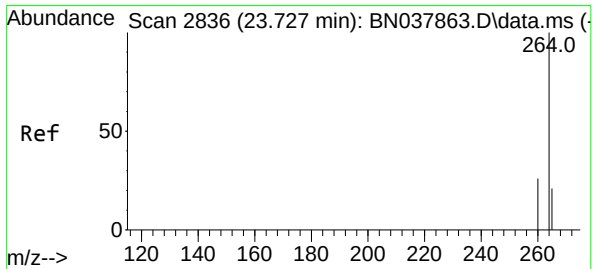
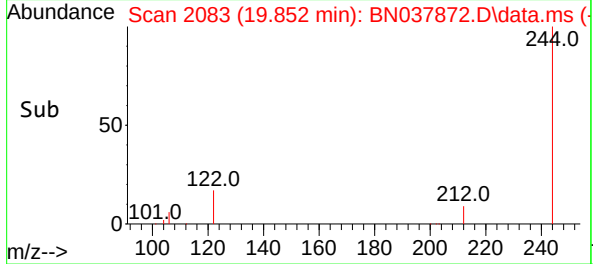
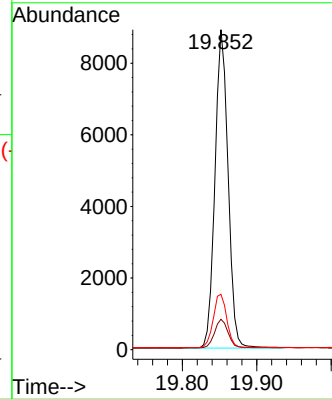
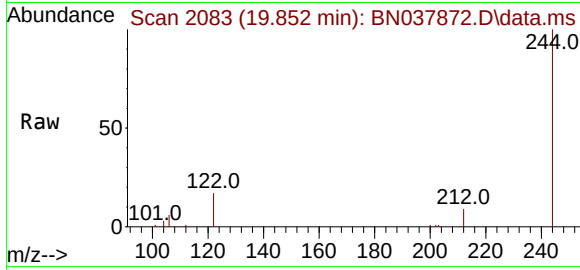




#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

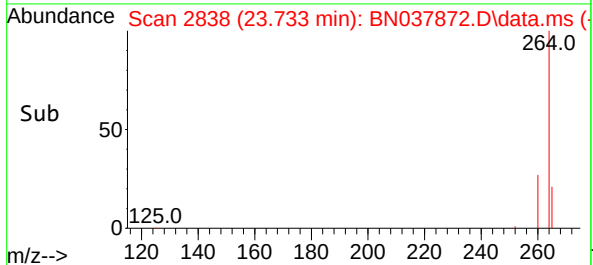
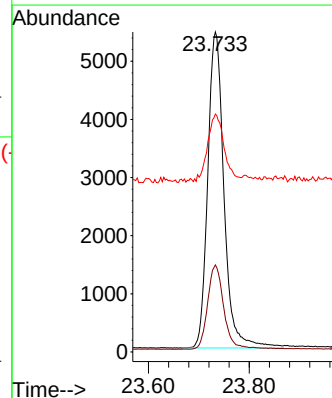
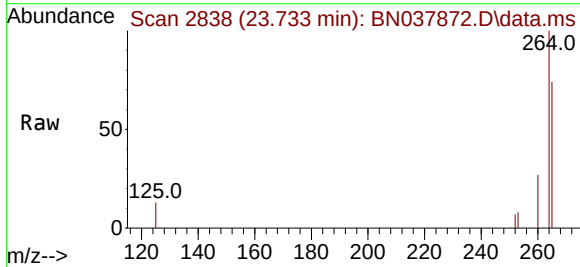
Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.3	13.9	20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. 0.006 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.5	32.3
265	74.3	53.8	80.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169693BS	SDG No.:	Q3097
Lab Sample ID:	PB169693BS	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
BN037792.D	1	09/15/25 12:00	09/19/25 00:16	PB169693

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	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		81%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7440	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8150	14.484				
1517-22-2	Phenanthrene-d10	12400	17.235				
1719-03-5	Chrysene-d12	10100	21.411				
1520-96-3	Perylene-d12	10200	23.738				

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\BN091825\
 Data File : BN037792.D
 Acq On : 19 Sep 2025 00:16
 Operator : RC/JU
 Sample : PB169693BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB169693BS

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025

Quant Time: Sep 19 04:12:55 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Sep 11 14:20:01 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.081	252	14241m	0.348	ng	
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037792.D
 Acq On : 19 Sep 2025 00:16
 Operator : RC/JU
 Sample : PB169693BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB169693BS

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025

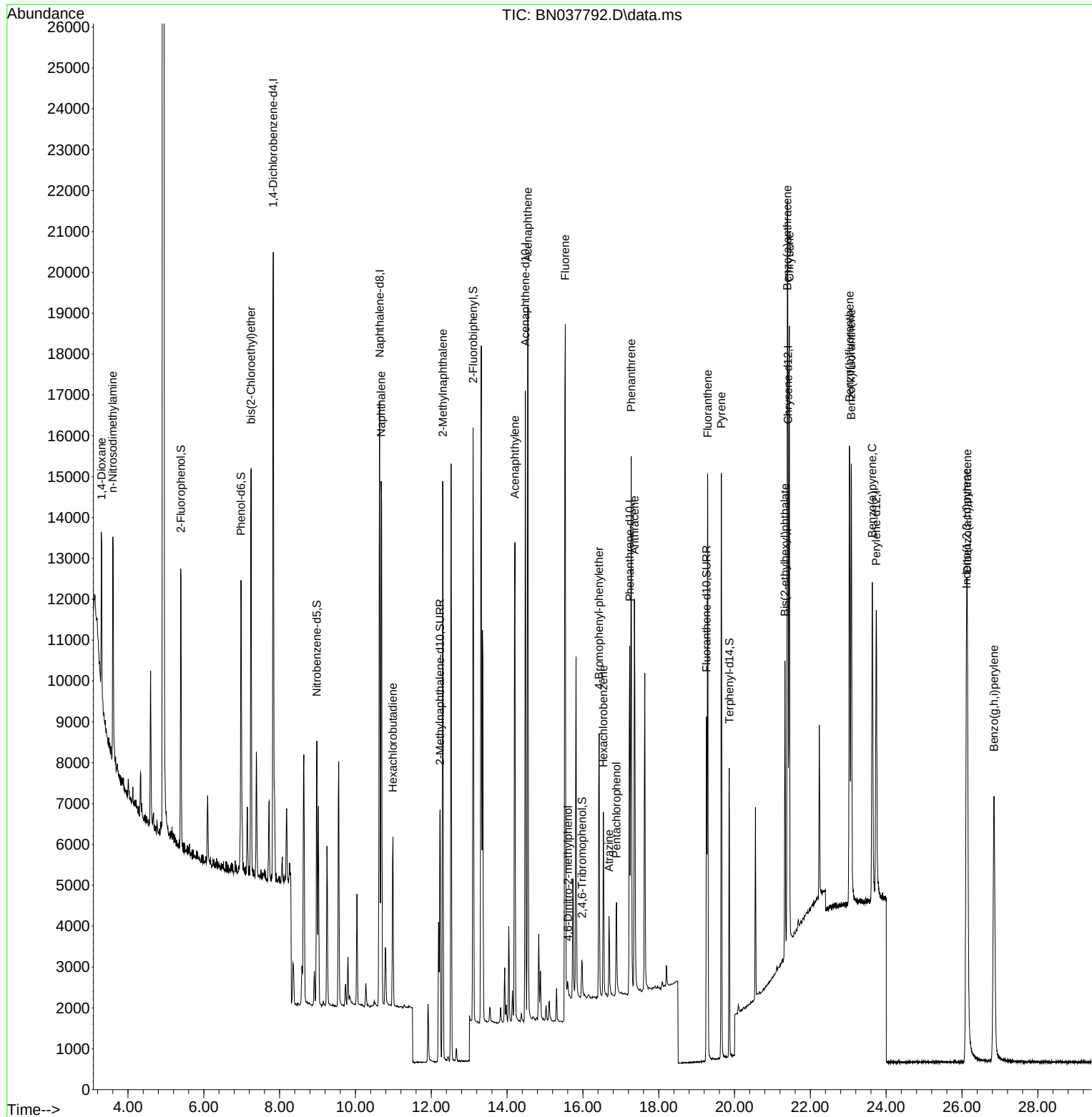
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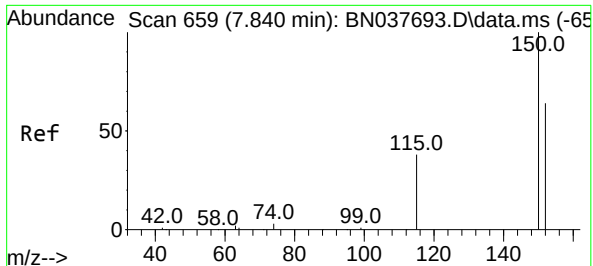
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Sep 11 14:20:01 2025

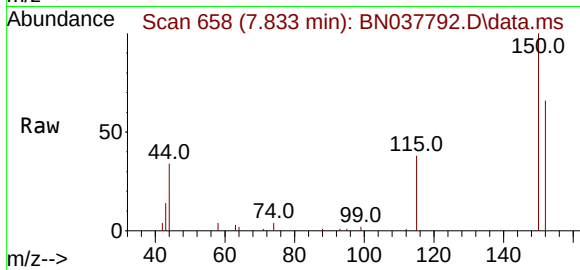
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

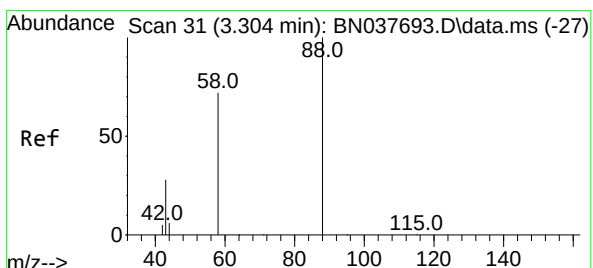
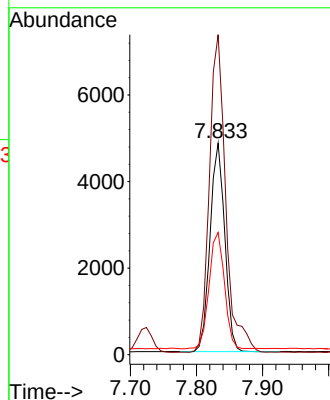
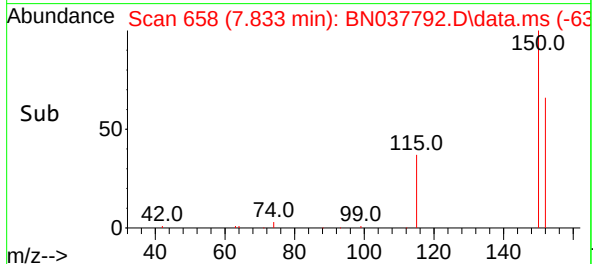
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion: 152 Resp: 744
Ion Ratio Lower Upper
152 100
150 151.3 124.5 186.7
115 57.8 49.2 73.8

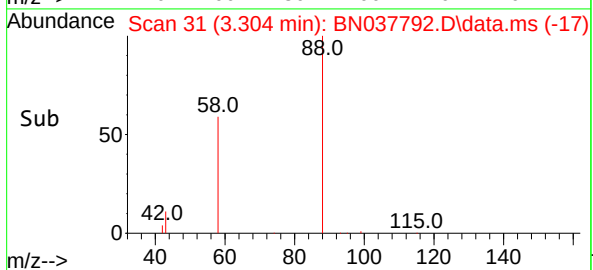
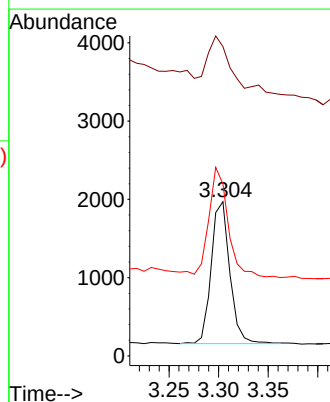
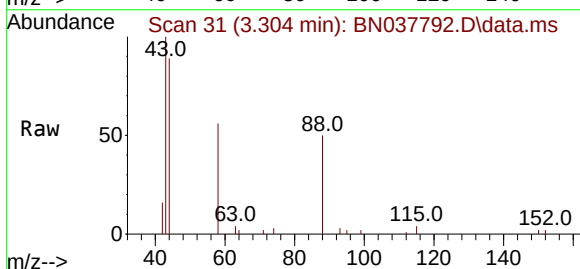
Manual Integrations
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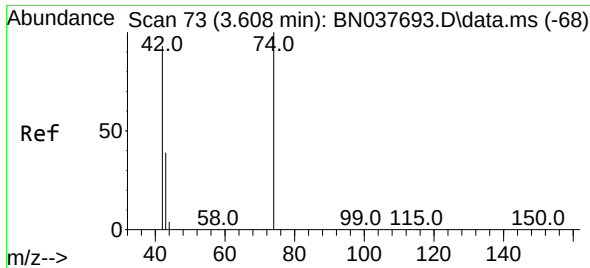
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#2
1,4-Dioxane
Concen: 0.305 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

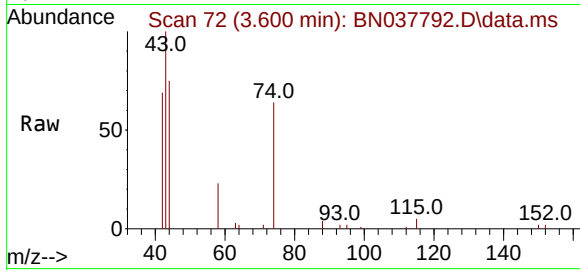
Tgt Ion: 88 Resp: 2366
Ion Ratio Lower Upper
88 100
43 56.6 26.8 40.2#
58 80.3 61.9 92.9





#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

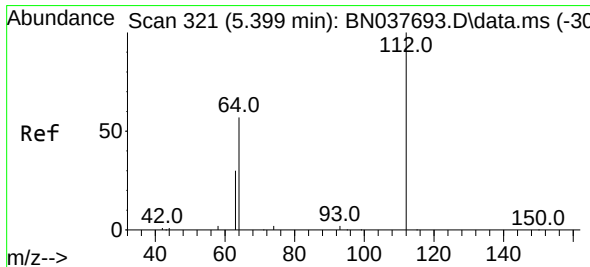
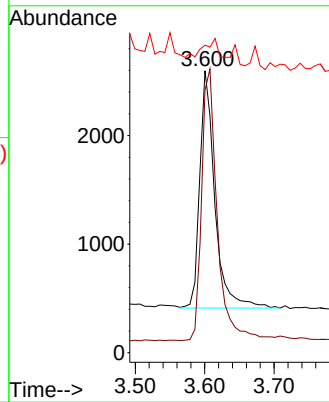
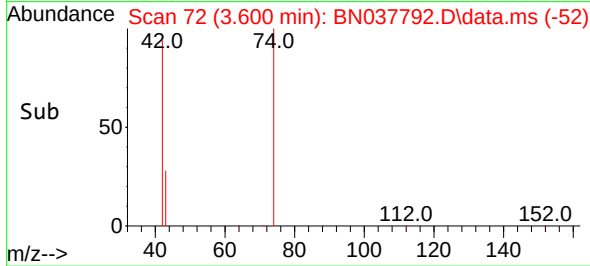
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion: 42 Resp: 3300
Ion Ratio Lower Upper
42 100
74 118.9 86.0 129.0
44 8.3 8.4 12.6

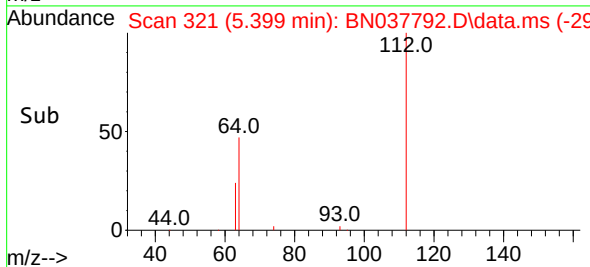
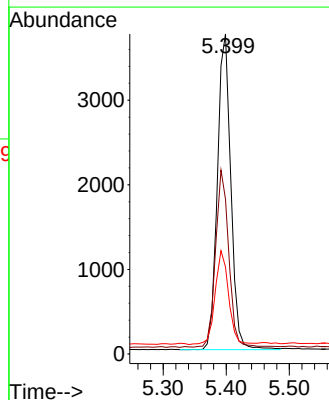
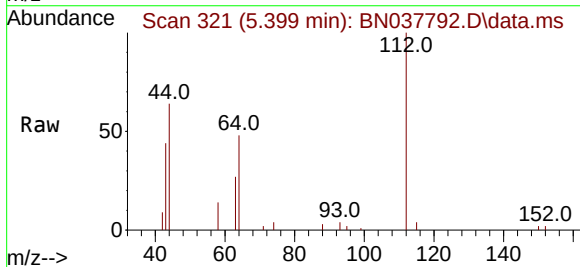
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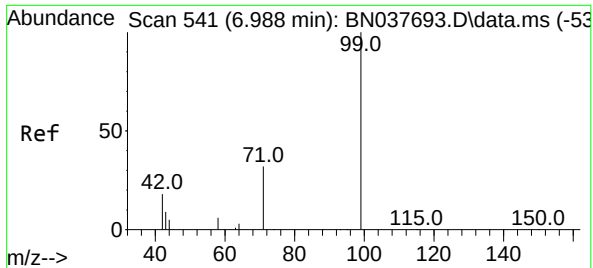
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:112 Resp: 5555
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 29.6 24.7 37.1





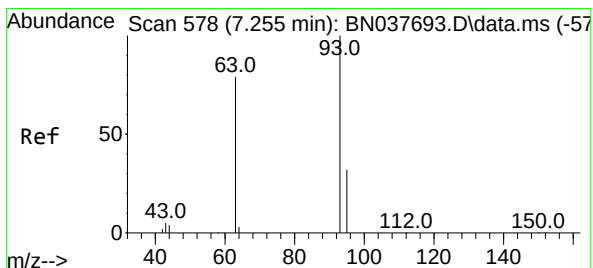
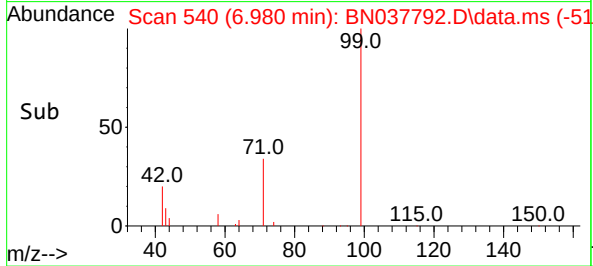
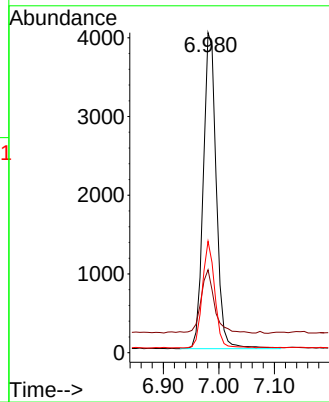
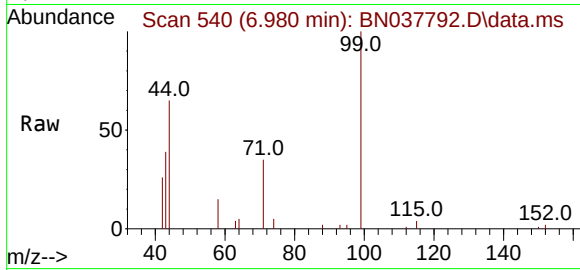
#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion: 99 Resp: 656
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 32.2 26.7 40.1

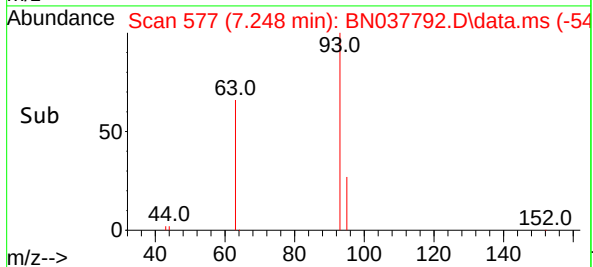
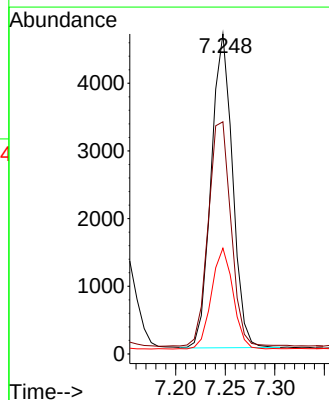
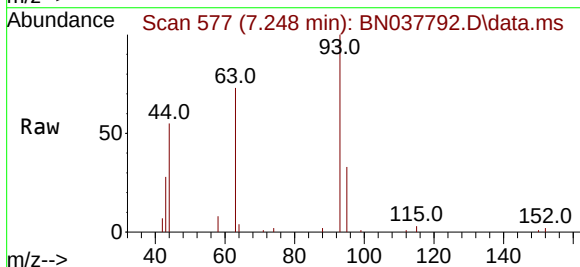
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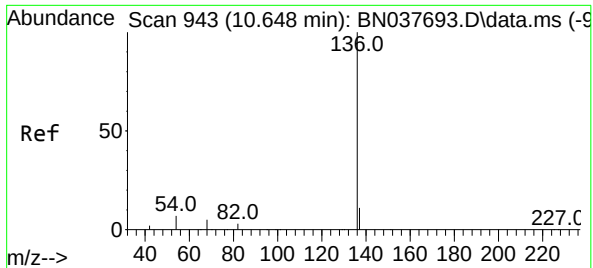
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.6 26.0 39.0





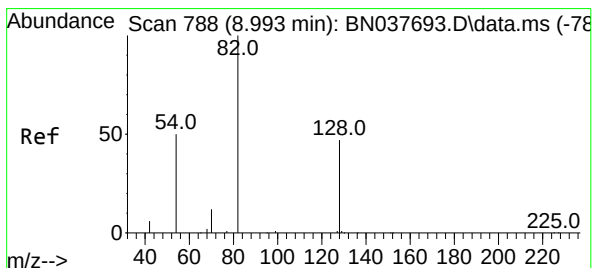
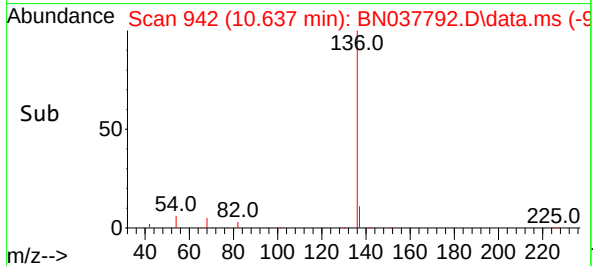
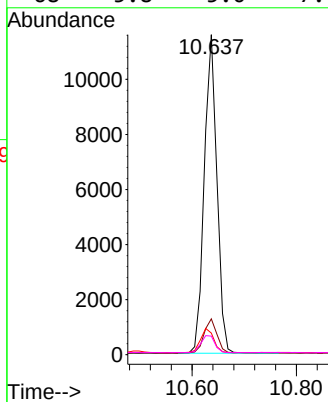
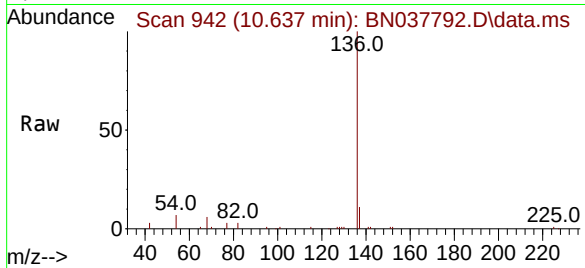
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:136 Resp: 1939
Ion Ratio Lower Upper
136 100
137 11.2 9.1 13.7
54 6.8 6.3 9.5
68 5.8 5.0 7.4

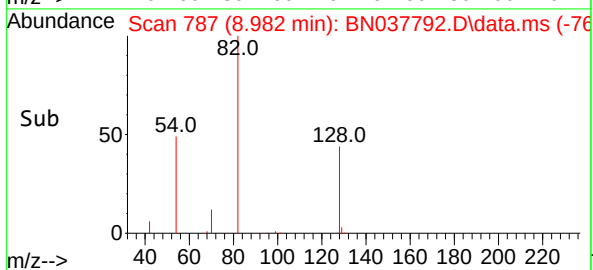
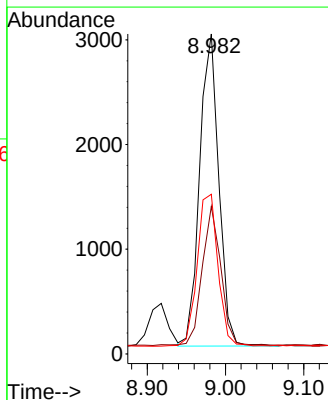
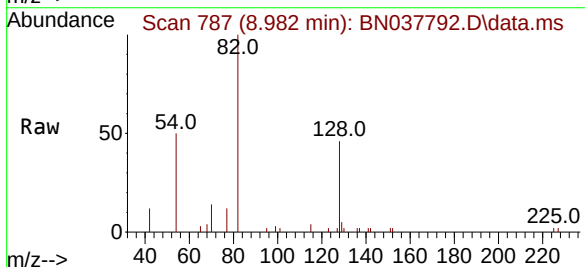
Manual Integrations
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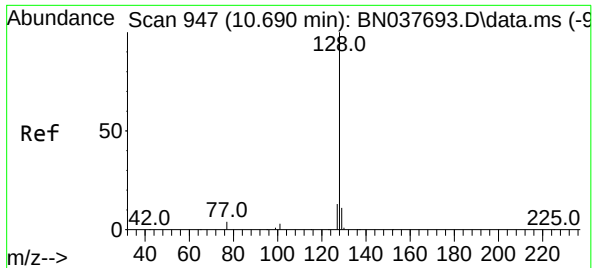
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 82 Resp: 5088
Ion Ratio Lower Upper
82 100
128 46.1 38.3 57.5
54 49.9 41.4 62.2





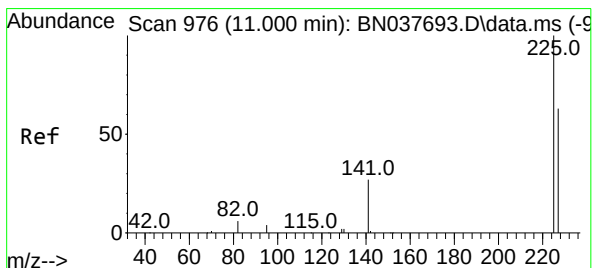
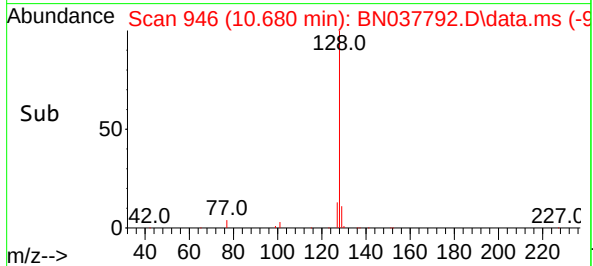
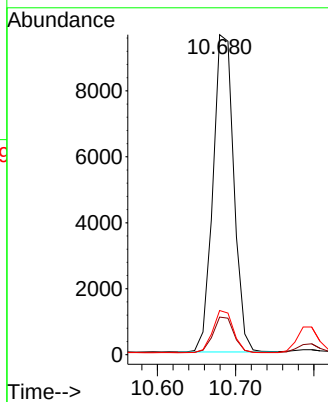
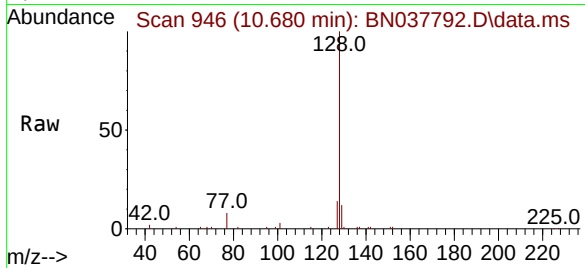
#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:128 Resp: 17810
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.8 10.9 16.3

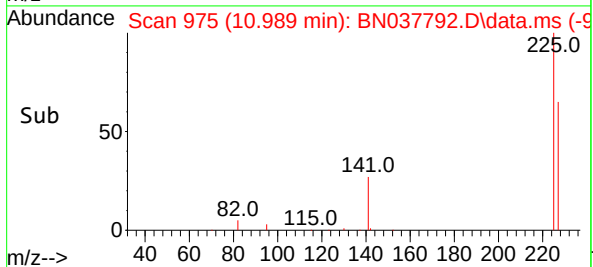
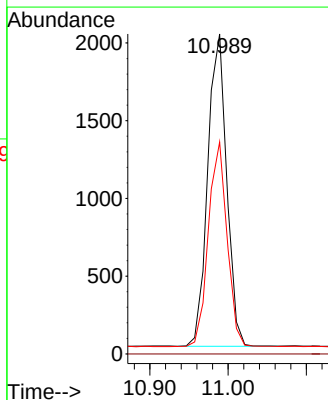
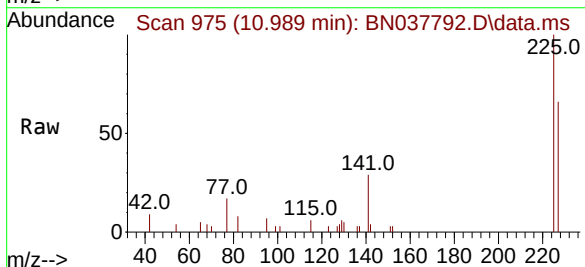
Manual Integrations
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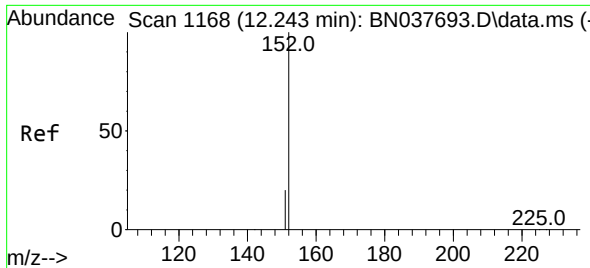
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

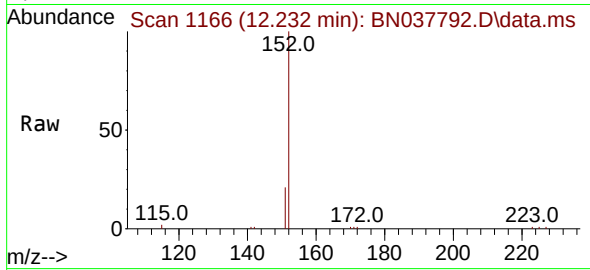
Tgt Ion:225 Resp: 3379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

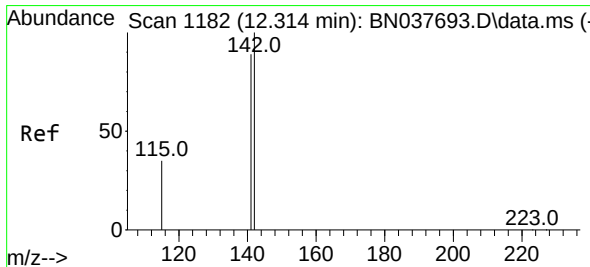
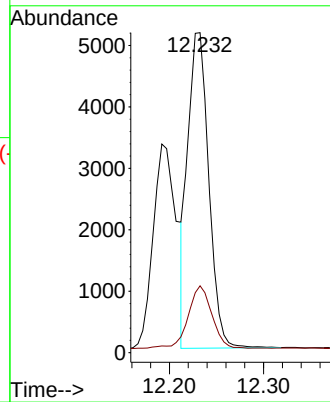
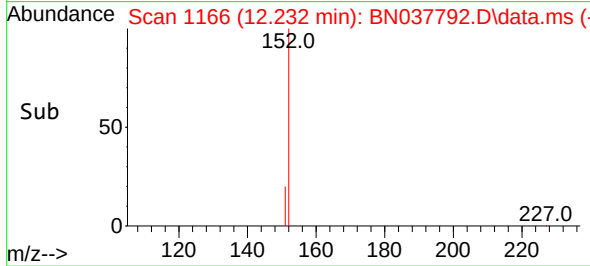
Instrument :
BNA_N
ClientSampleId :
PB169693BS



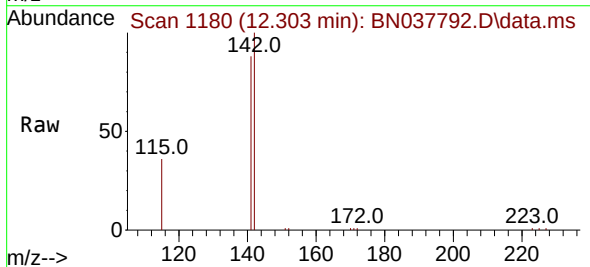
Tgt Ion:152 Resp: 7932
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6

Manual Integrations
APPROVED

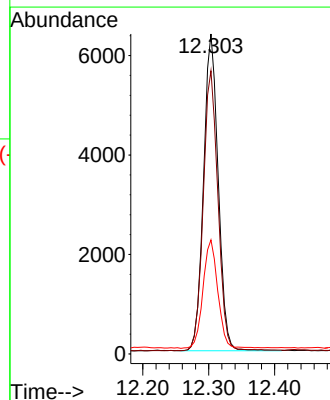
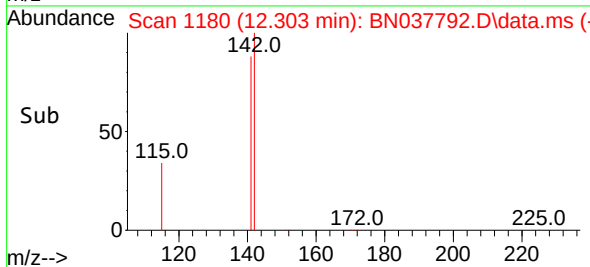
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

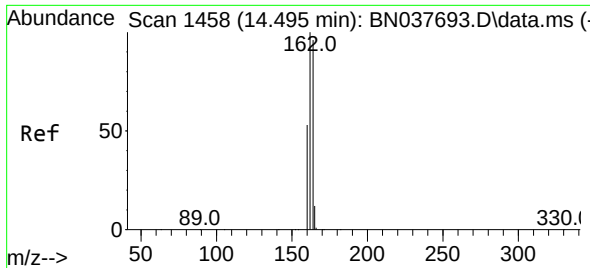


#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



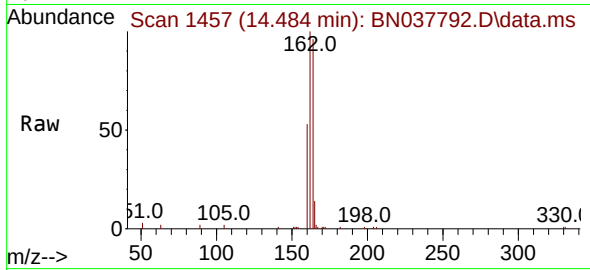
Tgt Ion:142 Resp: 9820
Ion Ratio Lower Upper
142 100
141 88.5 71.6 107.4
115 35.7 28.6 43.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

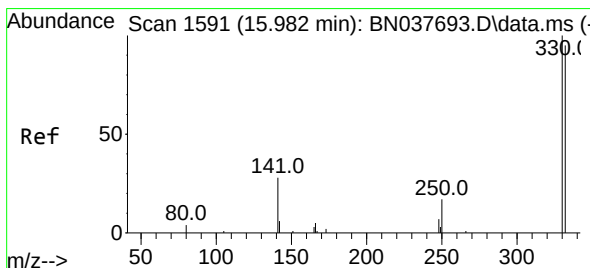
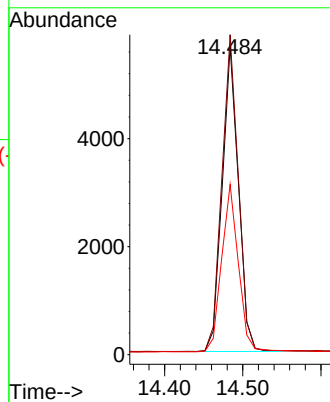
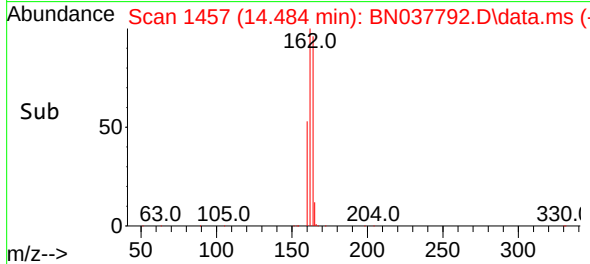
Instrument :
BNA_N
ClientSampleId :
PB169693BS



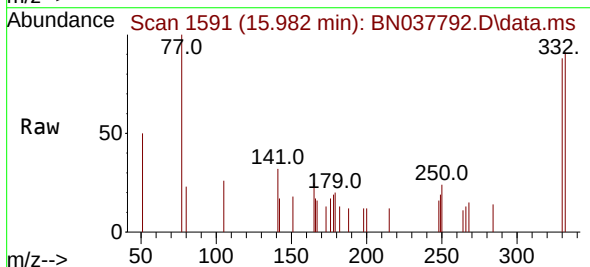
Tgt Ion:164 Resp: 8149
Ion Ratio Lower Upper
164 100
162 103.7 83.1 124.7
160 55.2 44.3 66.5

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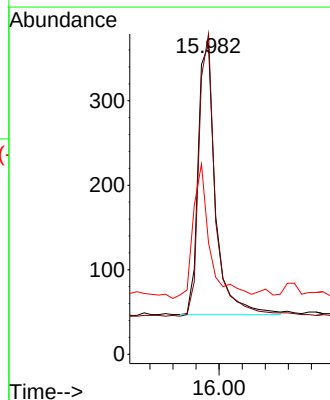
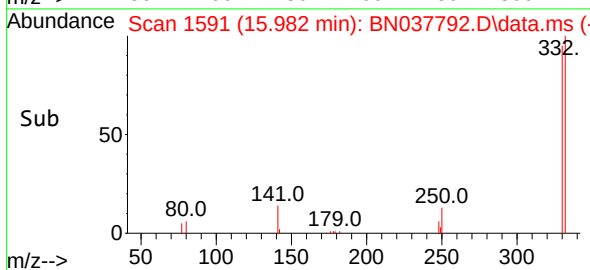
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

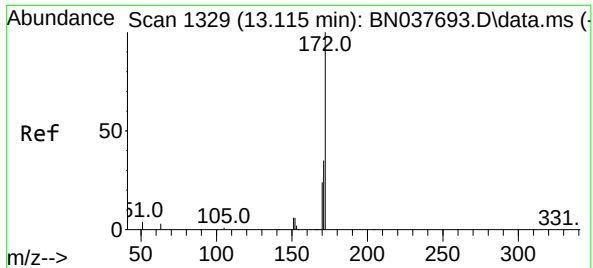


#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



Tgt Ion:330 Resp: 674
Ion Ratio Lower Upper
330 100
332 99.4 75.3 112.9
141 47.6 35.0 52.4





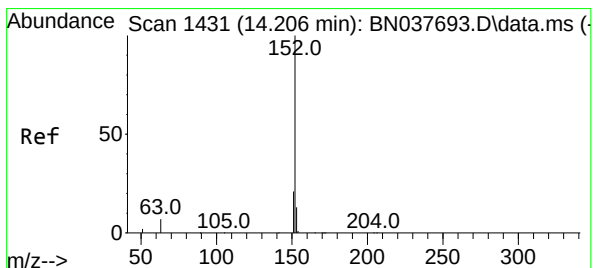
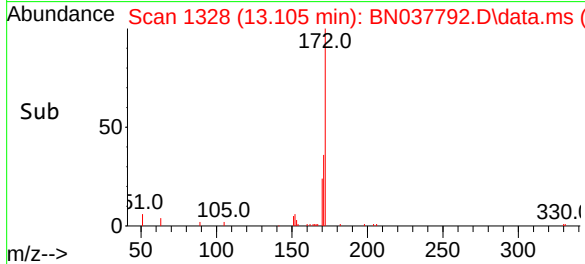
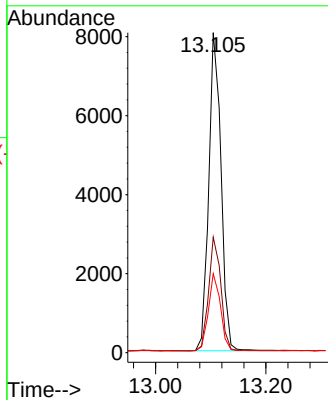
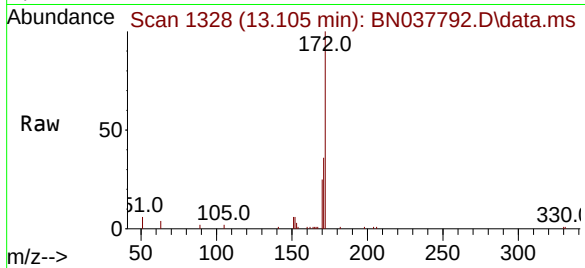
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1329
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:172 Resp: 1249
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.7 19.8 29.8

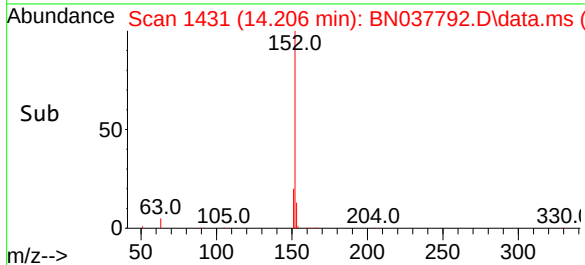
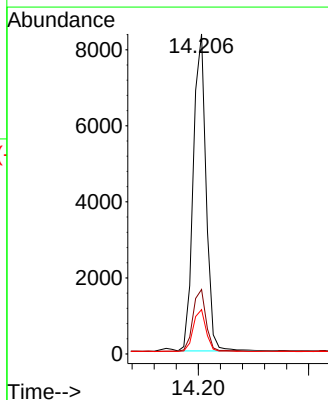
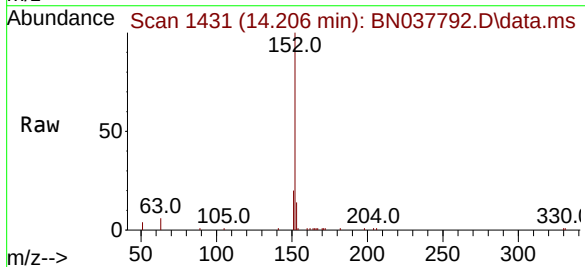
Manual Integrations
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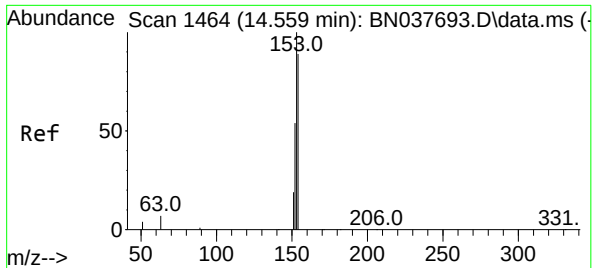
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

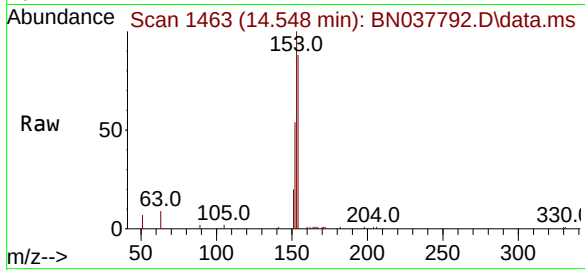
Tgt Ion:152 Resp: 13377
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.4 10.4 15.6





#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

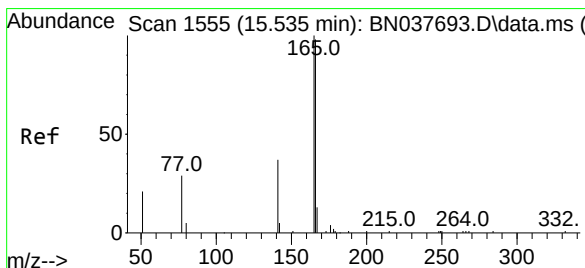
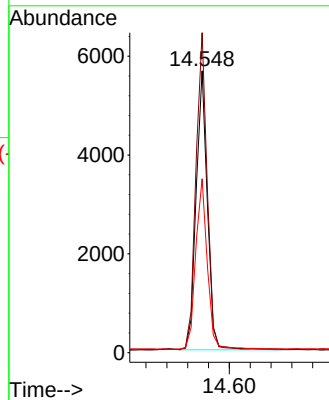
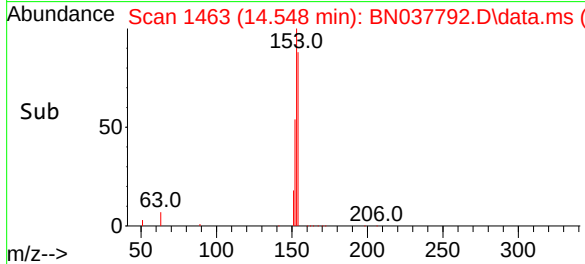
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:154 Resp: 8509
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.9 50.2 75.2

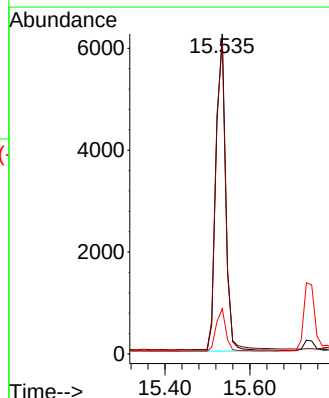
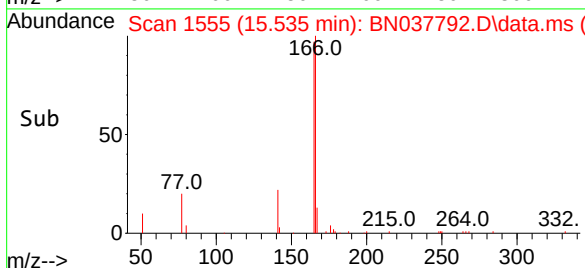
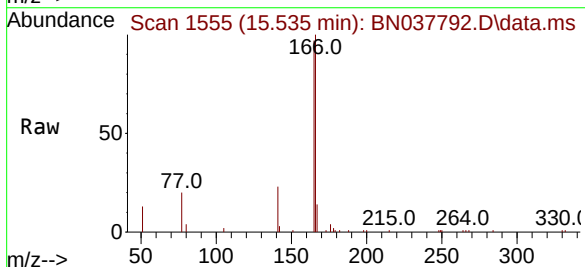
Manual Integrations
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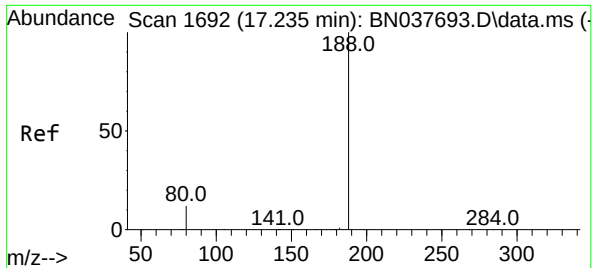
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.235 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

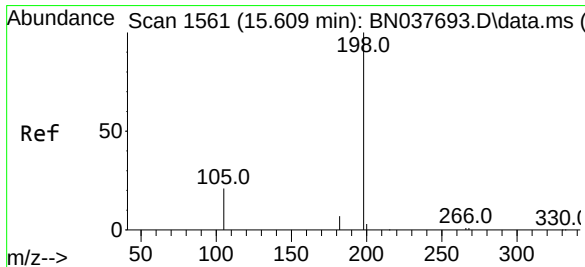
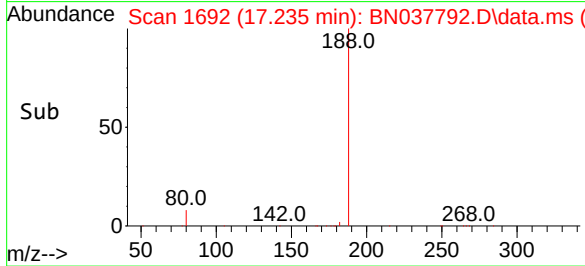
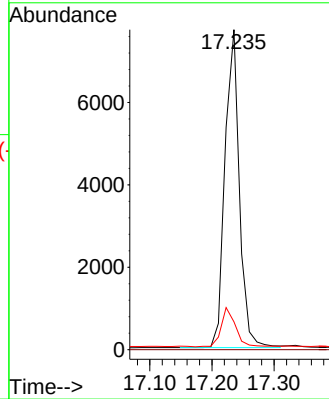
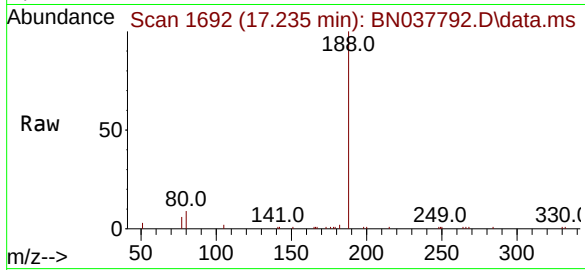
Instrument :

BNA_N

ClientSampleId :

PB169693BS

Tgt Ion:188	Resp:	1238
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.7	10.6

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Supervised By :mohammad ahmed 09/23/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.266 ng

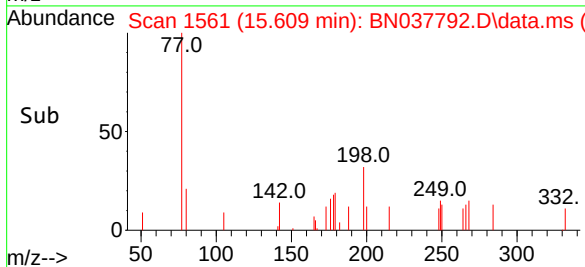
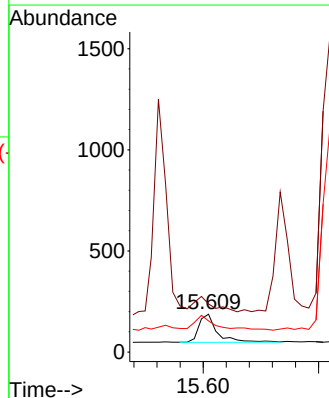
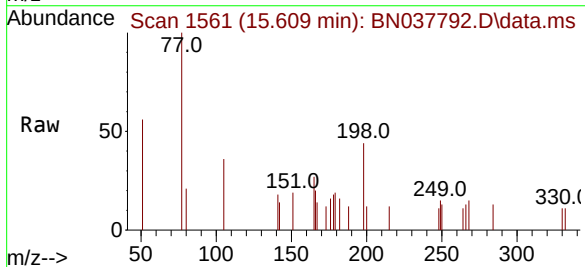
RT: 15.609 min Scan# 1561

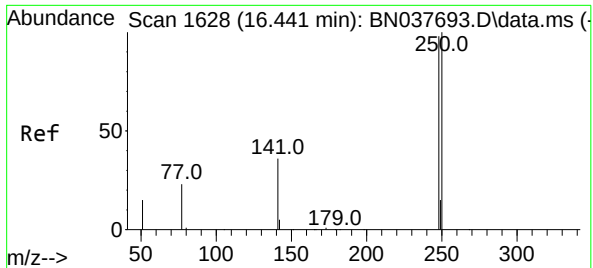
Delta R.T. 0.000 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

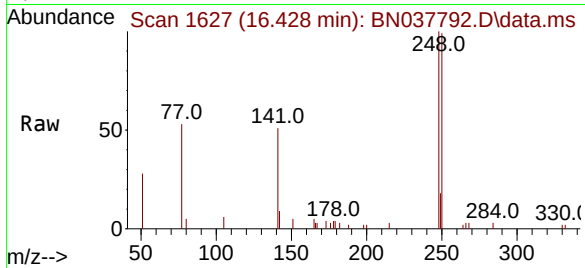
Tgt Ion:198	Resp:	305
Ion Ratio	Lower	Upper
198	100	
51	127.3	95.1
105	82.4	53.8





#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

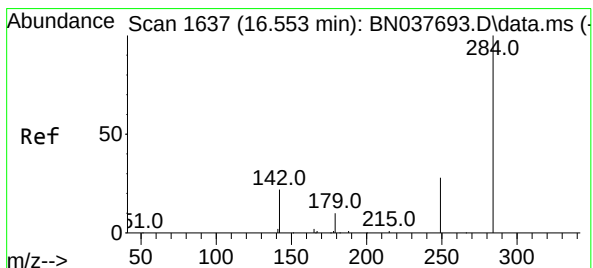
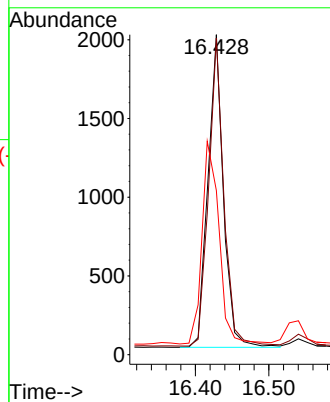
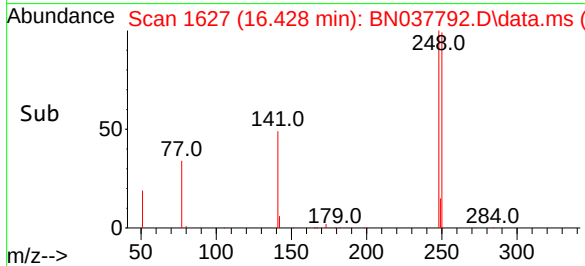
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:248 Resp: 289
Ion Ratio Lower Upper
248 100
250 99.0 81.5 122.3
141 51.3 30.8 46.2

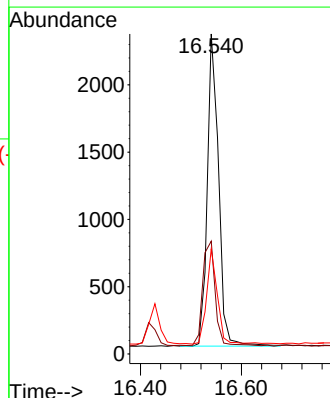
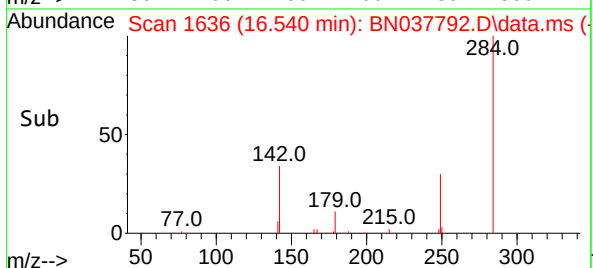
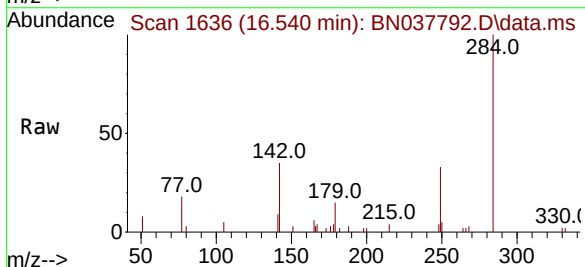
Manual Integrations
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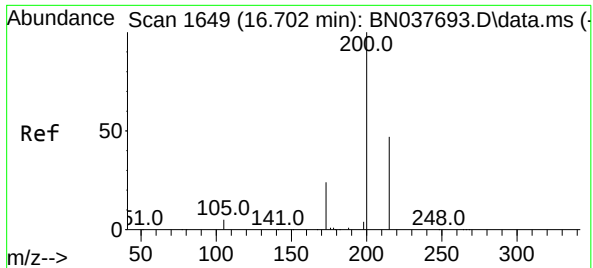
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

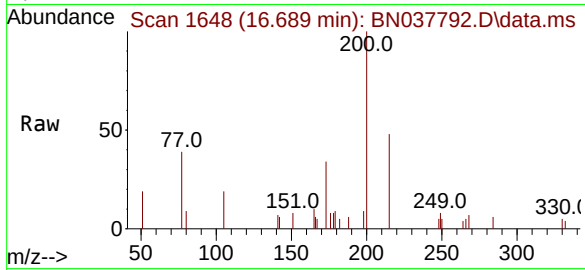
Tgt Ion:284 Resp: 3601
Ion Ratio Lower Upper
284 100
142 37.9 30.9 46.3
249 28.9 24.8 37.2





#23
Atrazine
Concen: 0.333 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

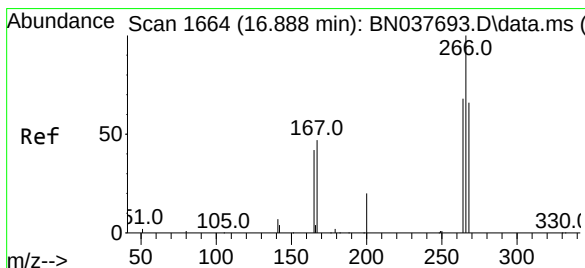
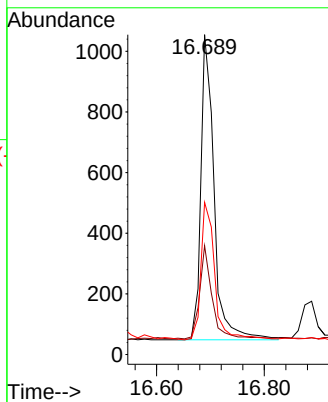
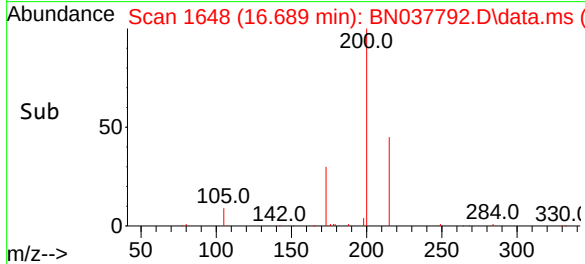
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion:200 Resp: 1710
Ion Ratio Lower Upper
200 100
173 34.0 21.4 32.2
215 47.6 39.2 58.8

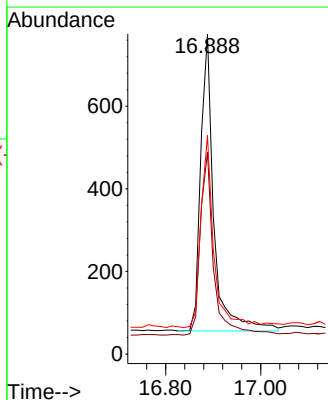
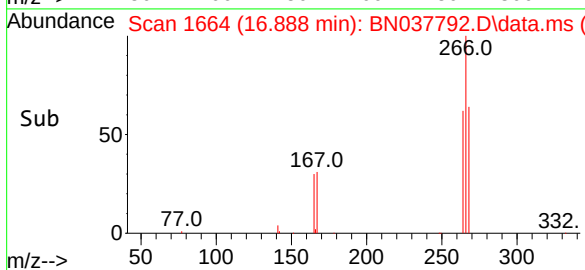
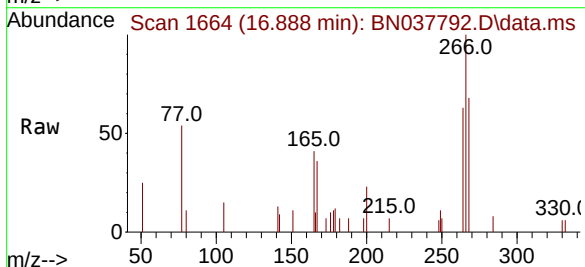
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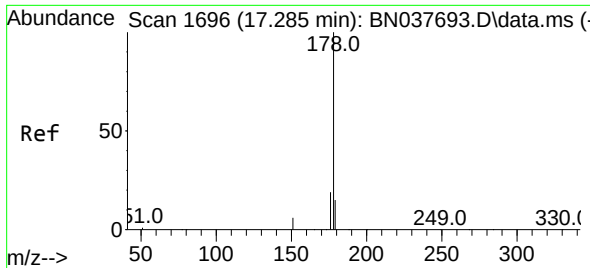
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#24
Pentachlorophenol
Concen: 0.515 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:266 Resp: 1388
Ion Ratio Lower Upper
266 100
264 62.3 51.6 77.4
268 65.3 53.2 79.8





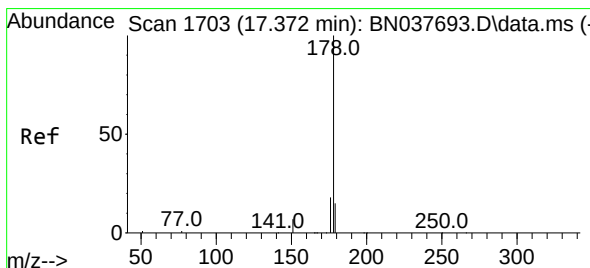
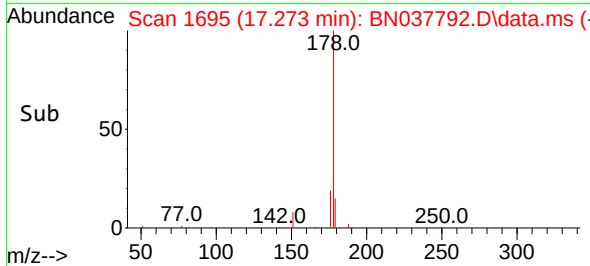
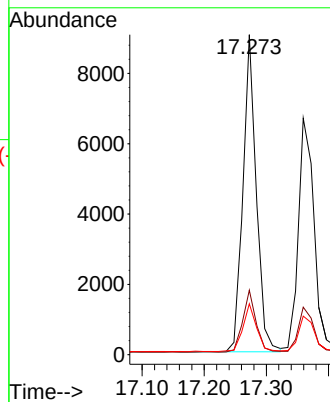
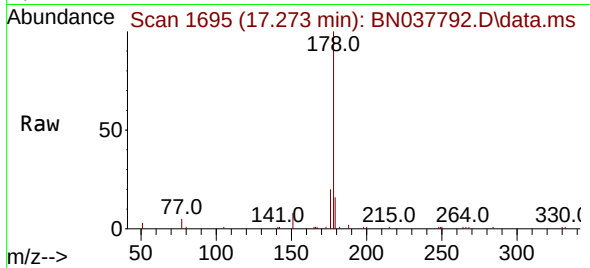
#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

Tgt Ion:178 Resp: 1350
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.2 18.2

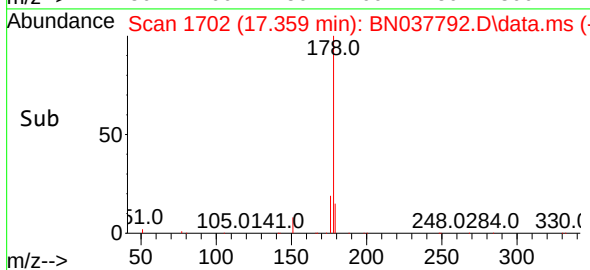
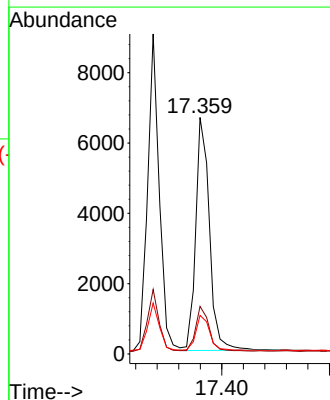
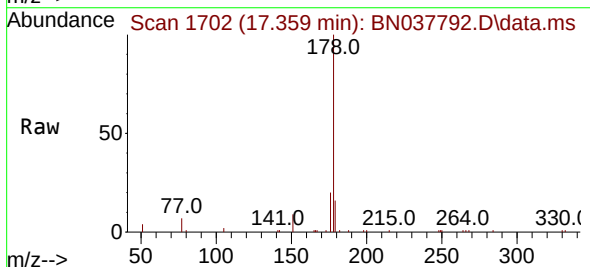
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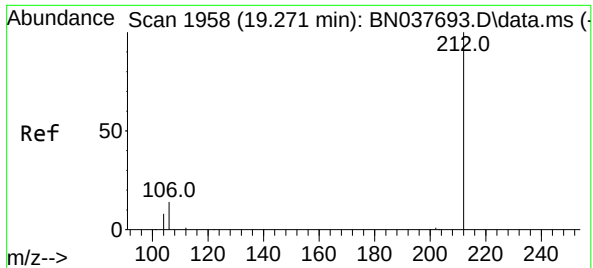
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.291 ng

RT: 19.262 min Scan# 1958

Delta R.T. -0.009 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

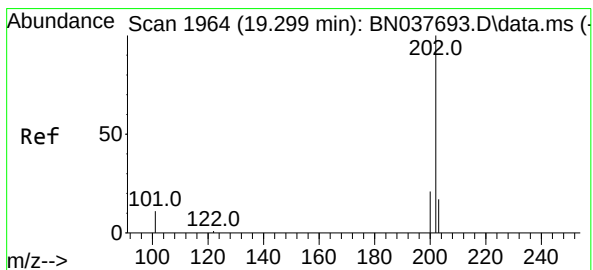
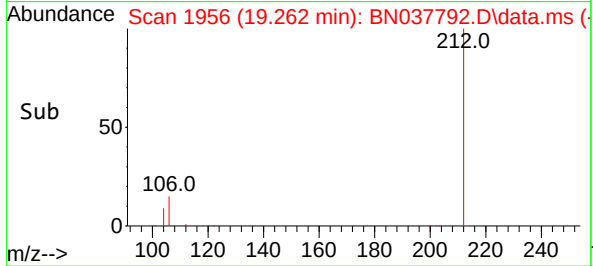
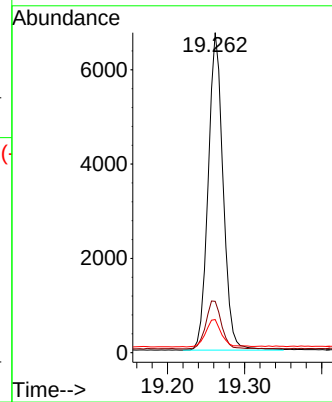
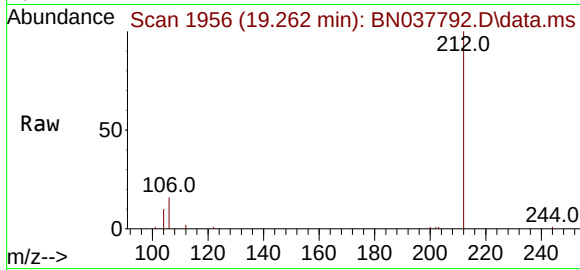
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.2	6.9	10.3

Manual Integrations

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Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



#28

Fluoranthene

Concen: 0.302 ng

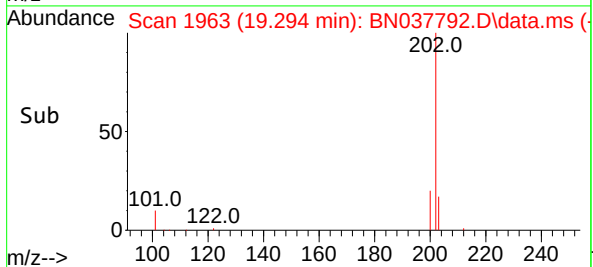
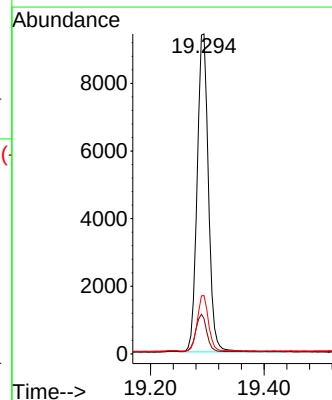
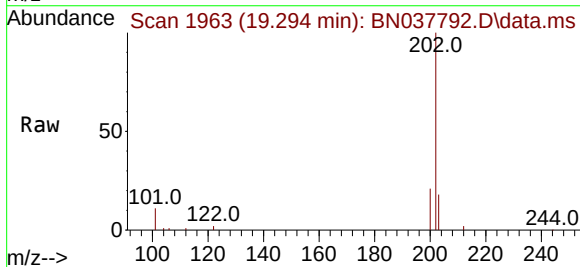
RT: 19.294 min Scan# 1963

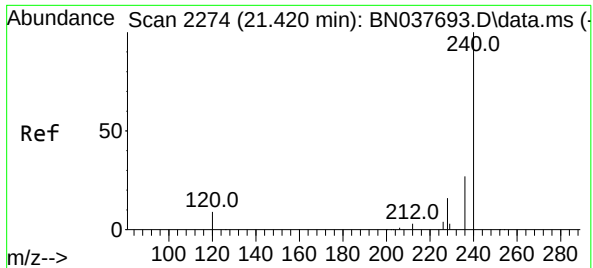
Delta R.T. -0.005 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

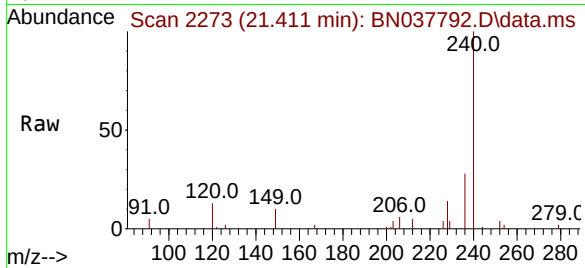
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.3	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

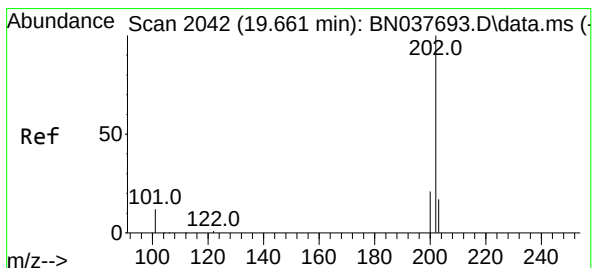
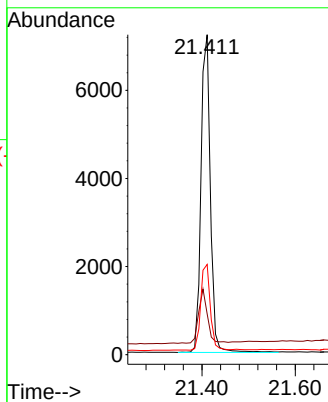
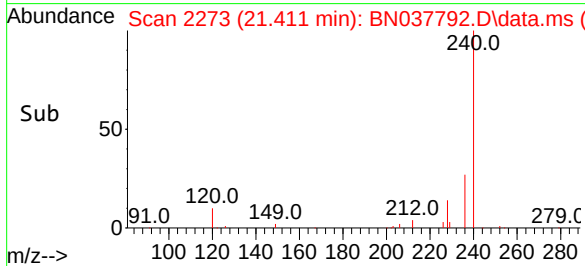
Instrument :
BNA_N
ClientSampleId :
PB169693BS



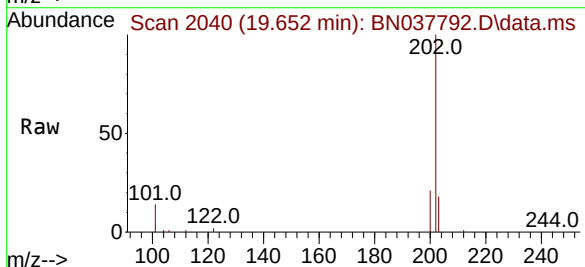
Tgt Ion:240 Resp: 1009
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 28.2 22.6 33.8

Manual Integrations
APPROVED

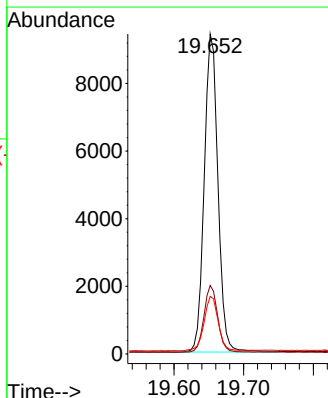
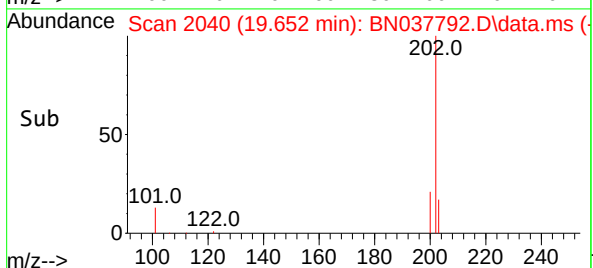
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

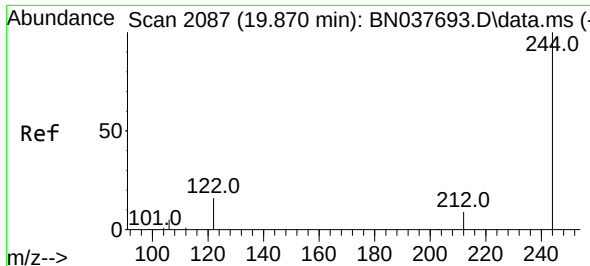


#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



Tgt Ion:202 Resp: 12854
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.5 14.3 21.5





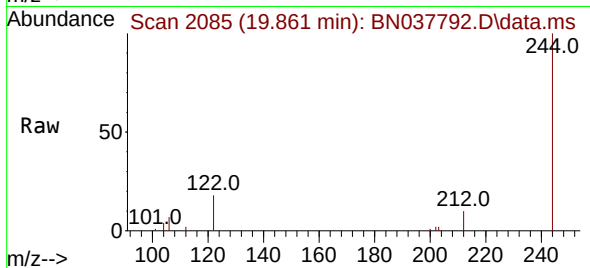
#31
Terphenyl-d14
Concen: 0.322 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

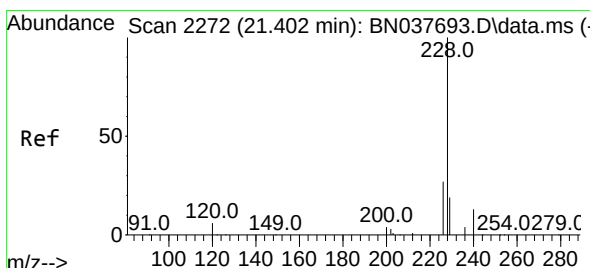
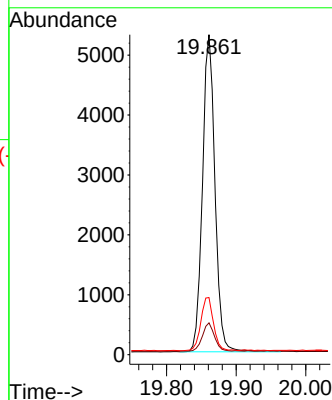
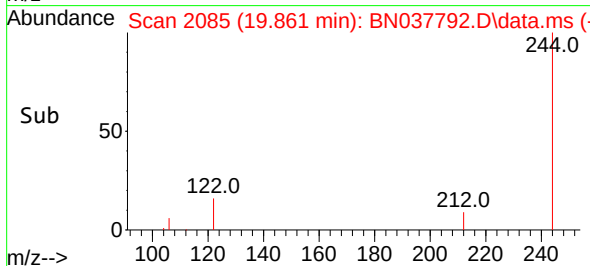
PB169693BS



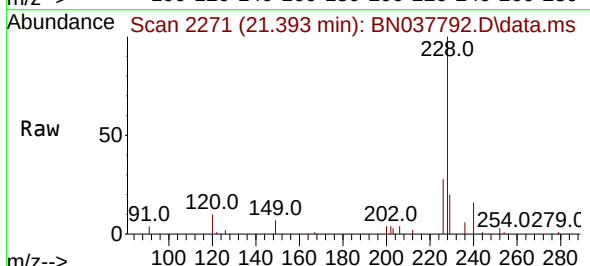
Tgt Ion:244 Resp: 659
Ion Ratio Lower Upper
244 100
212 10.0 7.5 11.3
122 17.8 13.2 19.8

Manual Integrations
APPROVED

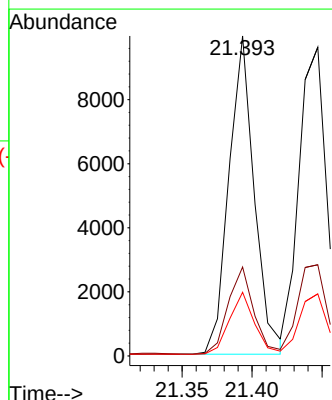
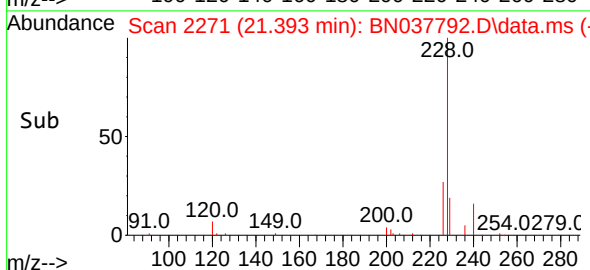
Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

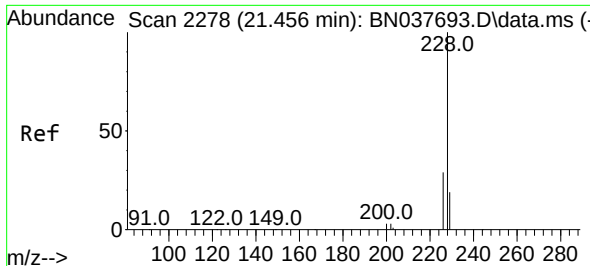


#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



Tgt Ion:228 Resp: 12540
Ion Ratio Lower Upper
228 100
226 27.8 22.2 33.2
229 19.9 15.8 23.6





#33

Chrysene

Concen: 0.359 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

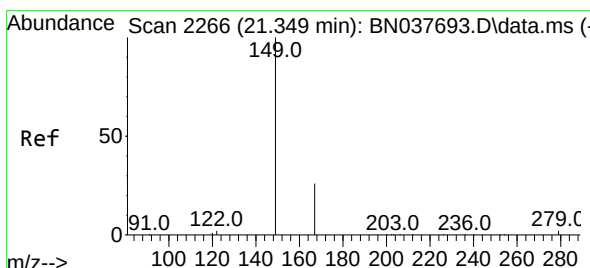
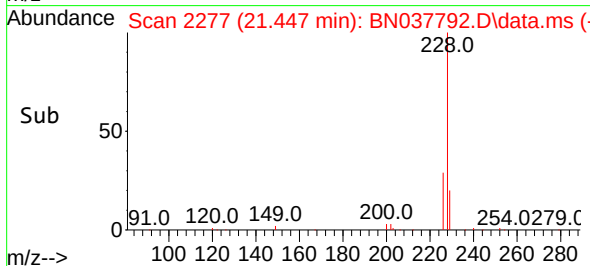
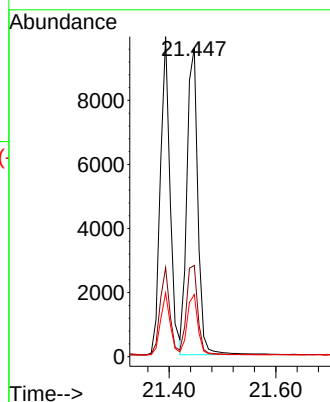
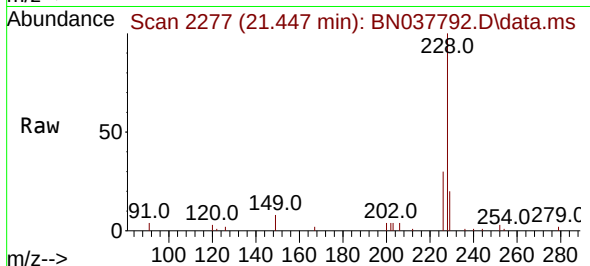
Instrument :

BNA_N

ClientSampleId :

PB169693BS

Tgt Ion:	228	Resp:	1356
Ion Ratio	Lower	Upper	
228	100		
226	29.5	23.5	35.3
229	20.1	15.9	23.9

Manual Integrations
APPROVEDReviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.355 ng

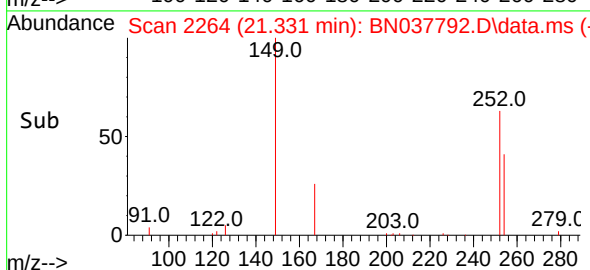
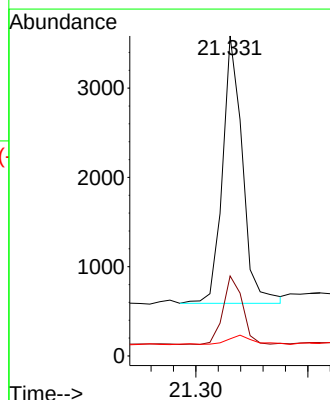
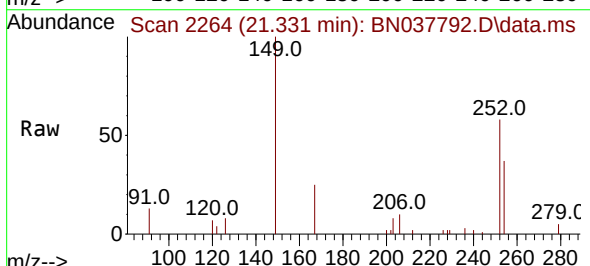
RT: 21.331 min Scan# 2264

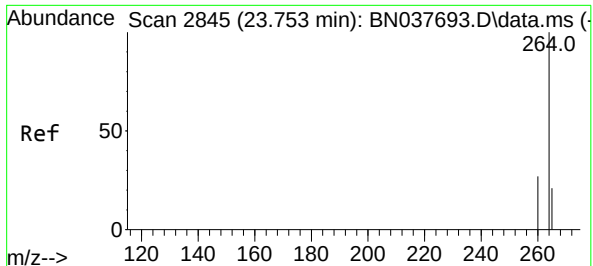
Delta R.T. -0.018 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Tgt Ion:	149	Resp:	3708
Ion Ratio	Lower	Upper	
149	100		
167	25.0	20.8	31.2
279	4.3	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.738 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037792.D

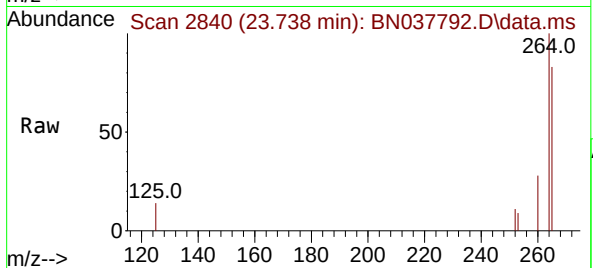
Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS



Tgt Ion:264 Resp: 10200

Ion Ratio Lower Upper

264 100

260 27.6 21.8 32.8

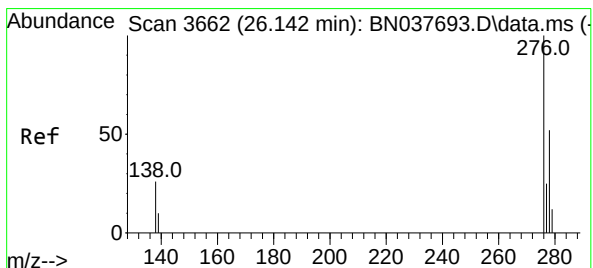
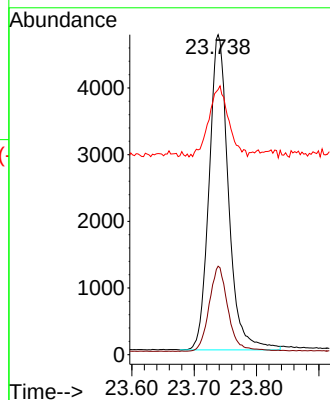
265 82.9 39.4 59.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



#36

Indeno(1,2,3-cd)pyrene

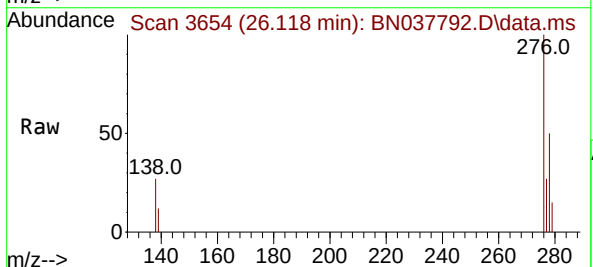
Concen: 0.407 ng

RT: 26.118 min Scan# 3654

Delta R.T. -0.024 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16



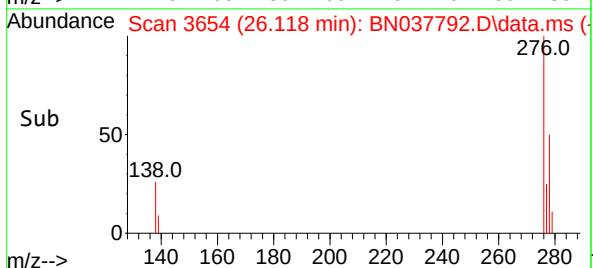
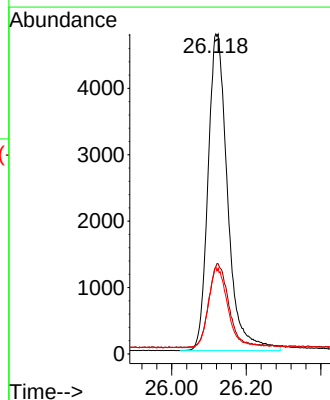
Tgt Ion:276 Resp: 17423

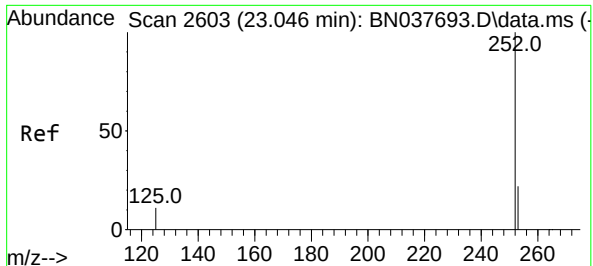
Ion Ratio Lower Upper

276 100

138 27.0 21.9 32.9

277 25.2 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 23.034 min Scan# 2599

Delta R.T. -0.012 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

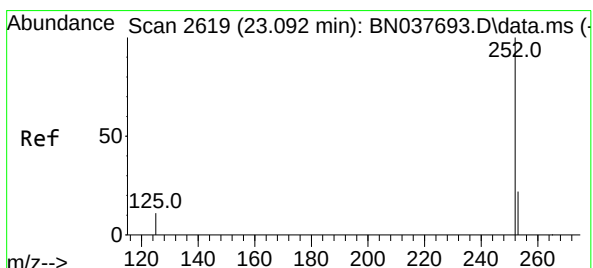
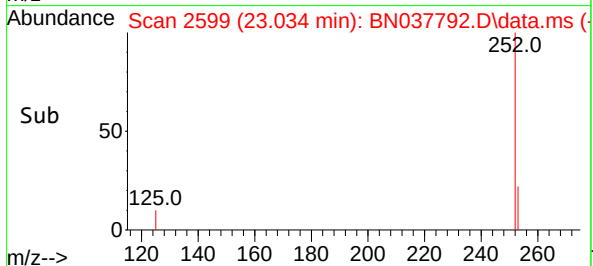
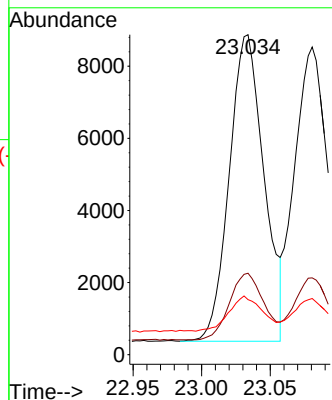
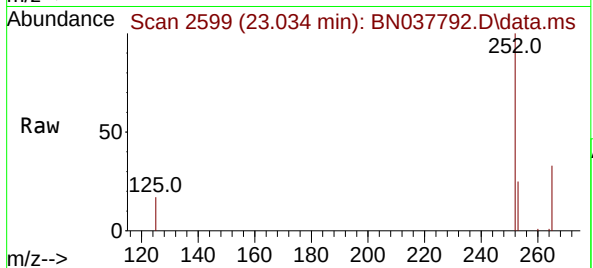
Tgt Ion:	252	Resp:	1495
Ion Ratio	Lower	Upper	
252	100		
253	25.5	19.4	29.2
125	17.2	11.2	16.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



#38

Benzo(k)fluoranthene

Concen: 0.348 ng m

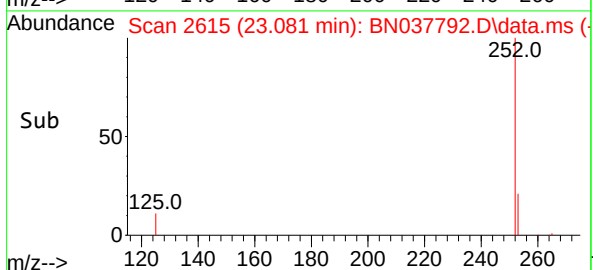
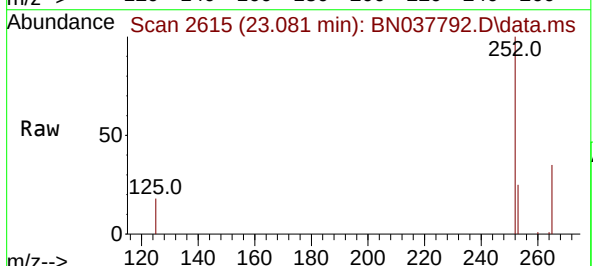
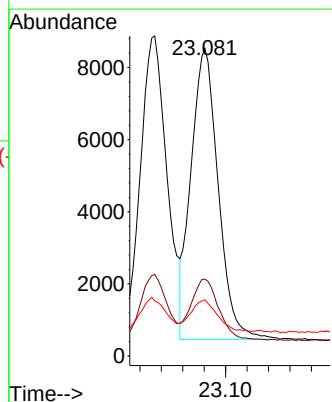
RT: 23.081 min Scan# 2615

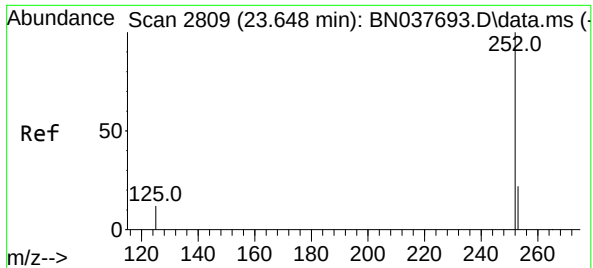
Delta R.T. -0.012 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Tgt Ion:	252	Resp:	14241
Ion Ratio	Lower	Upper	
252	100		
253	25.0	19.4	29.0
125	18.3	11.6	17.4





#39

Benzo(a)pyrene

Concen: 0.395 ng

RT: 23.633 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

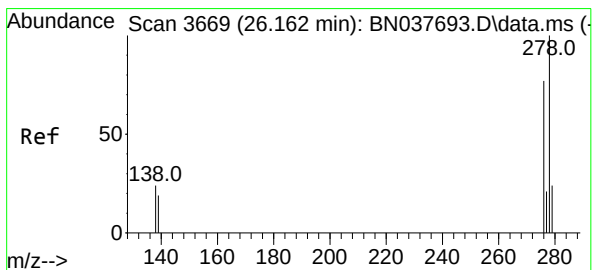
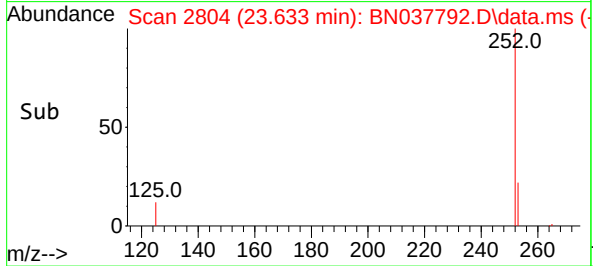
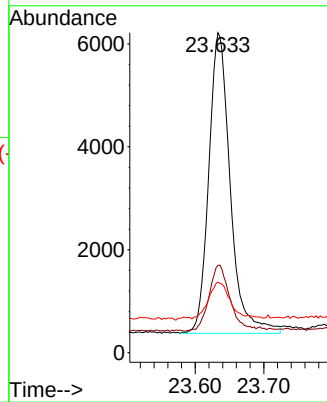
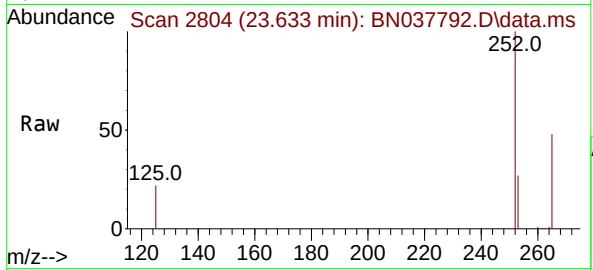
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.3	20.8	31.2
125	22.1	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/19/2025

Supervised By :mohammad ahmed 09/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

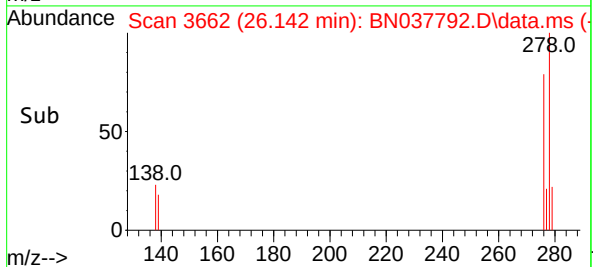
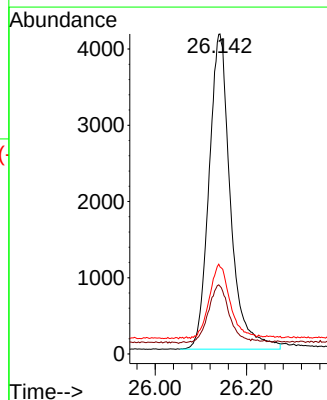
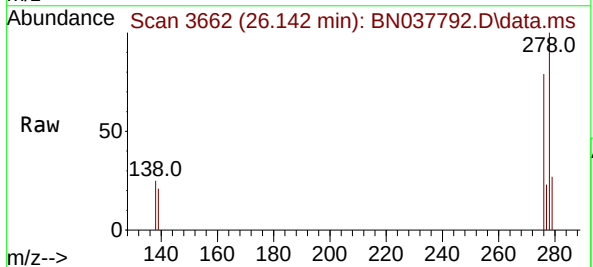
RT: 26.142 min Scan# 3662

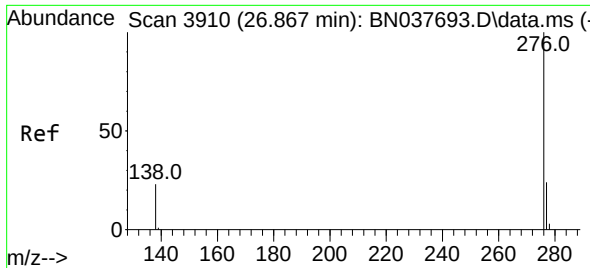
Delta R.T. -0.021 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

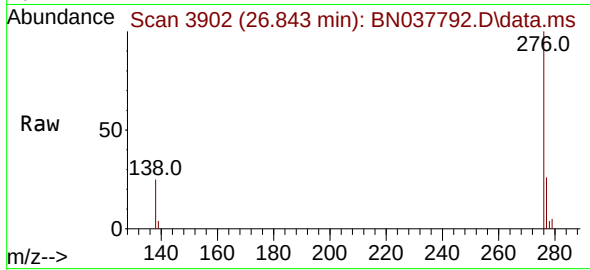
Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	27.2	22.0	33.0





#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.843 min Scan# 3910
Delta R.T. -0.024 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

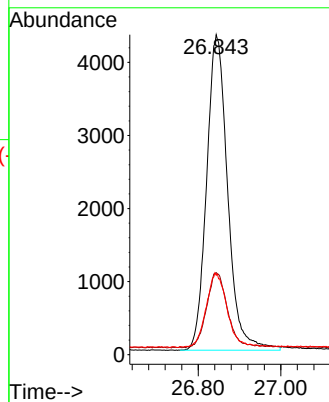
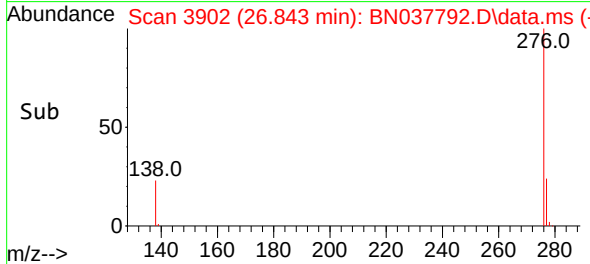
Instrument :
BNA_N
ClientSampleId :
PB169693BS



Tgt Ion: 276 Resp: 1527
Ion Ratio Lower Upper
276 100
277 25.6 20.6 31.0
138 24.8 20.2 30.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 09/19/2025
Supervised By :mohammad ahmed 09/23/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BS	SDG No.:	Q3097
Lab Sample ID:	PB169712BS	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
BN037885.D	1	09/16/25 09:39	09/25/25 12:44	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		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	0.34		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7080	7.818				
1146-65-2	Naphthalene-d8	19600	10.626				
15067-26-2	Acenaphthene-d10	9660	14.473				
1517-22-2	Phenanthrene-d10	19100	17.223				
1719-03-5	Chrysene-d12	15500	21.402				
1520-96-3	Perylene-d12	13100	23.733				

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\BN092525\
 Data File : BN037885.D
 Acq On : 25 Sep 2025 12:44
 Operator : RC/JU
 Sample : PB169712BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169712BS

Quant Time: Sep 25 13:29:48 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)

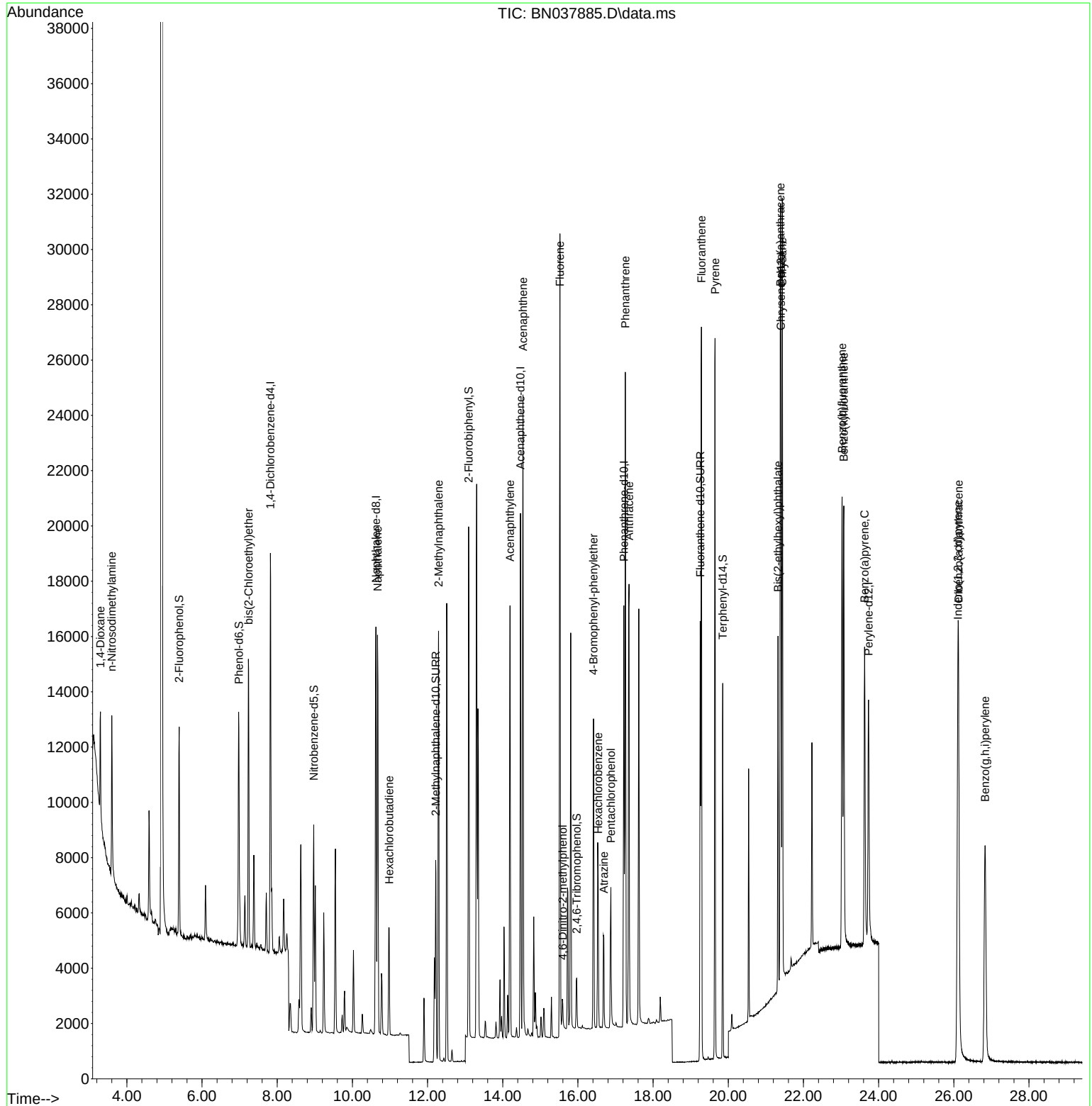
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7082	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	19552	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9660	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	19122	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15460	0.400	ng	0.00
35) Perylene-d12	23.733	264	13073	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5925	0.367	ng	0.00
5) Phenol-d6	6.981	99	7709	0.363	ng	0.00
8) Nitrobenzene-d5	8.971	82	5697	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	9582	0.353	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1148	0.313	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	15472	0.391	ng	0.00
27) Fluoranthene-d10	19.253	212	16458	0.342	ng	0.00
31) Terphenyl-d14	19.852	244	12280	0.399	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2267	0.315	ng	# 63
3) n-Nitrosodimethylamine	3.601	42	3436	0.359	ng	# 91
6) bis(2-Chloroethyl)ether	7.241	93	7371	0.374	ng	99
9) Naphthalene	10.669	128	19377	0.360	ng	100
10) Hexachlorobutadiene	10.979	225	3383	0.368	ng	# 98
12) 2-Methylnaphthalene	12.293	142	11047	0.314	ng	99
16) Acenaphthylene	14.195	152	16873	0.385	ng	100
17) Acenaphthene	14.537	154	10998	0.352	ng	99
18) Fluorene	15.523	166	13577	0.359	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	798	0.392	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4261	0.342	ng	100
22) Hexachlorobenzene	16.540	284	5565	0.368	ng	100
23) Atrazine	16.689	200	3072	0.324	ng	98
24) Pentachlorophenol	16.876	266	2586	0.499	ng	94
25) Phenanthrene	17.260	178	22894	0.364	ng	99
26) Anthracene	17.360	178	19907	0.365	ng	100
28) Fluoranthene	19.285	202	23355	0.337	ng	99
30) Pyrene	19.647	202	23008	0.377	ng	100
32) Benzo(a)anthracene	21.384	228	20382	0.377	ng	99
33) Chrysene	21.438	228	22553	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	6759	0.316	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	21870	0.366	ng	99
37) Benzo(b)fluoranthene	23.028	252	21060	0.374	ng	99
38) Benzo(k)fluoranthene	23.072	252	21159	0.373	ng	99
39) Benzo(a)pyrene	23.628	252	17352	0.389	ng	99
40) Dibenzo(a,h)anthracene	26.124	278	16856	0.361	ng	99
41) Benzo(g,h,i)perylene	26.832	276	17953	0.366	ng	99

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

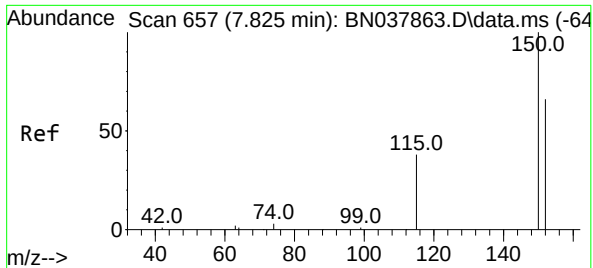
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Data File : BN037885.D
Acq On : 25 Sep 2025 12:44
Operator : RC/JU
Sample : PB169712BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BS

Quant Time: Sep 25 13:29:48 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

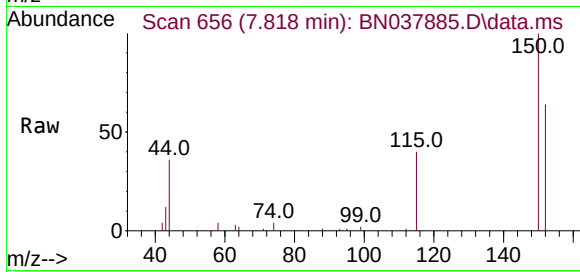


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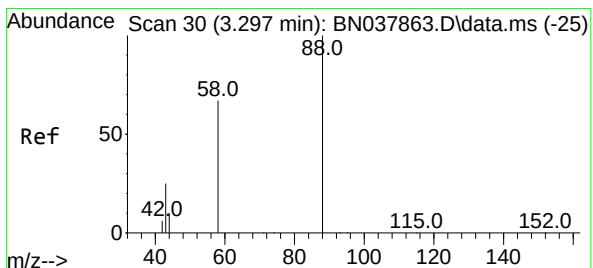
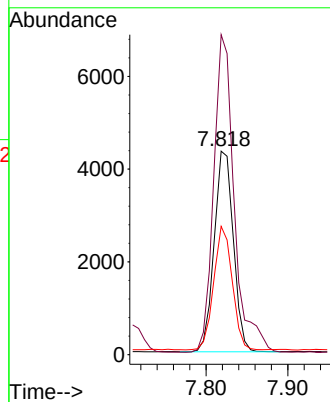
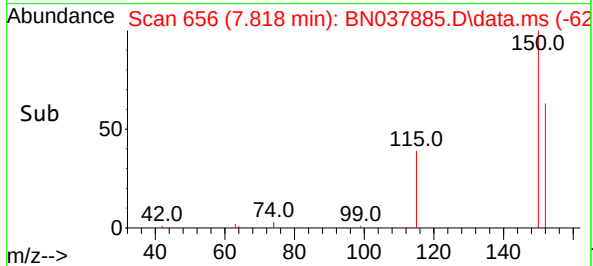


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.818 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037885.D
 Acq: 25 Sep 2025 12:44

Instrument :
 BNA_N
 ClientSampleId :
 PB169712BS

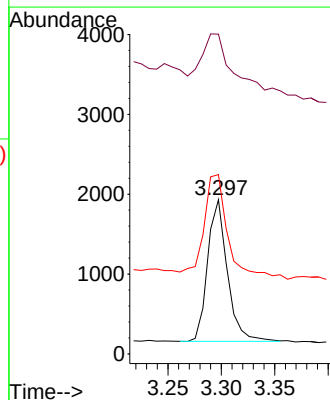
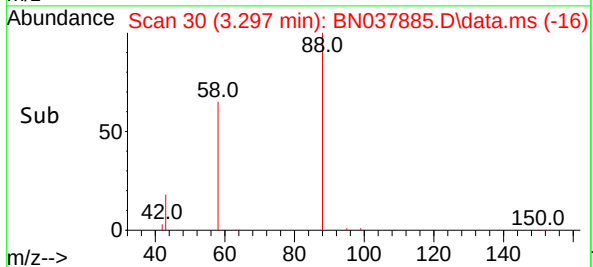
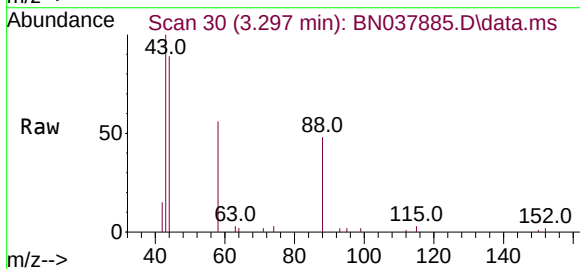


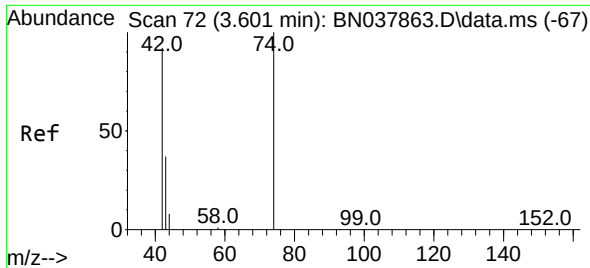
Tgt Ion:152 Resp: 7082
 Ion Ratio Lower Upper
 152 100
 150 157.3 121.0 181.4
 115 63.1 47.4 71.0



#2
 1,4-Dioxane
 Concen: 0.315 ng
 RT: 3.297 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: BN037885.D
 Acq: 25 Sep 2025 12:44

Tgt Ion: 88 Resp: 2267
 Ion Ratio Lower Upper
 88 100
 43 72.5 26.6 39.8#
 58 92.1 58.9 88.3#

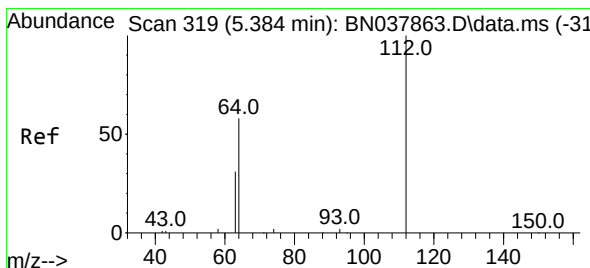
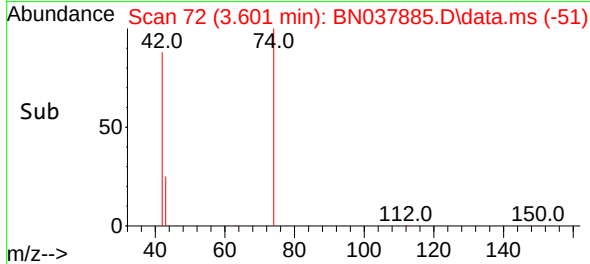
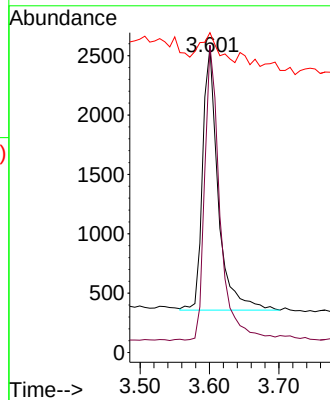
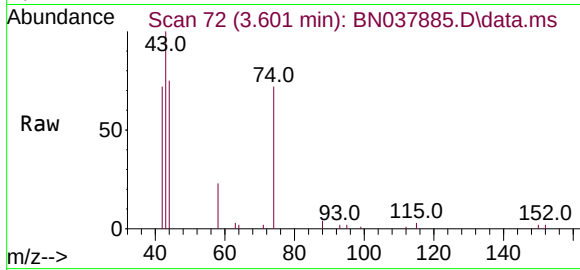




#3
n-Nitrosodimethylamine
Concen: 0.359 ng
RT: 3.601 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

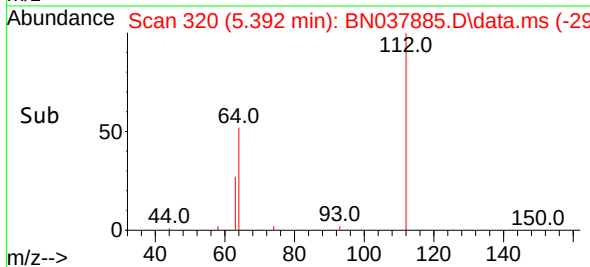
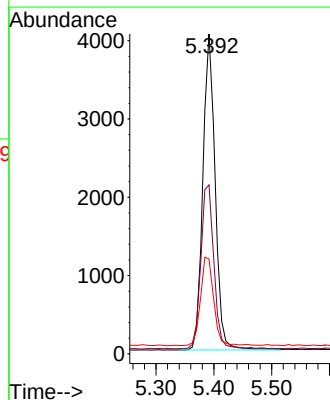
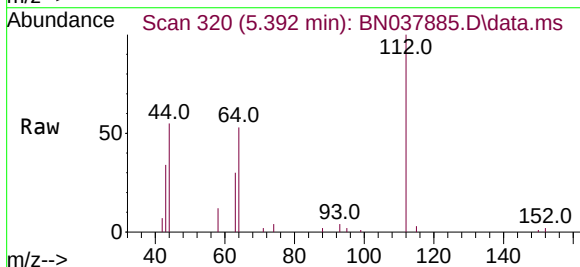
Instrument :
BNA_N
ClientSampleId :
PB169712BS

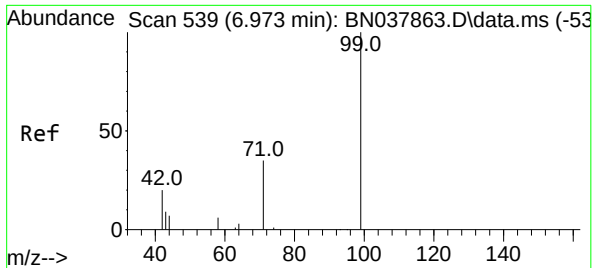
Tgt Ion: 42 Resp: 3436
Ion Ratio Lower Upper
42 100
74 111.8 93.4 140.0
44 12.7 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 112 Resp: 5925
Ion Ratio Lower Upper
112 100
64 55.0 44.6 66.8
63 29.8 24.9 37.3

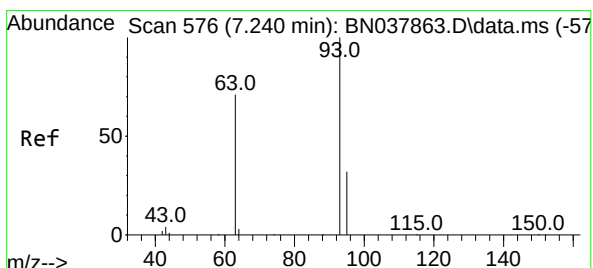
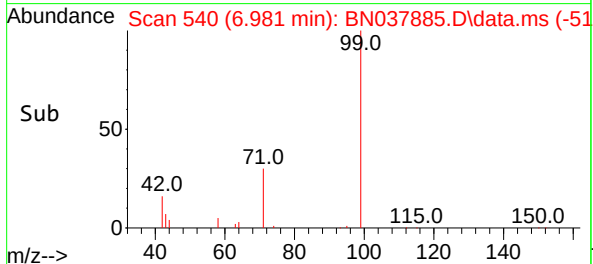
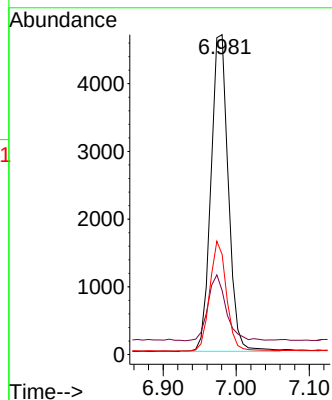
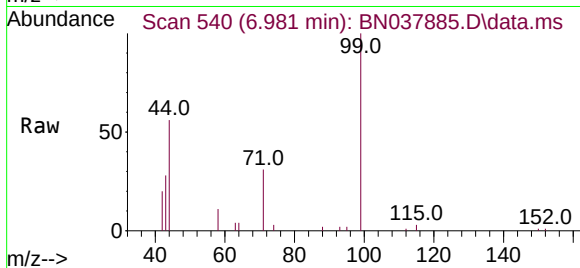




#5
Phenol-d6
Concen: 0.363 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

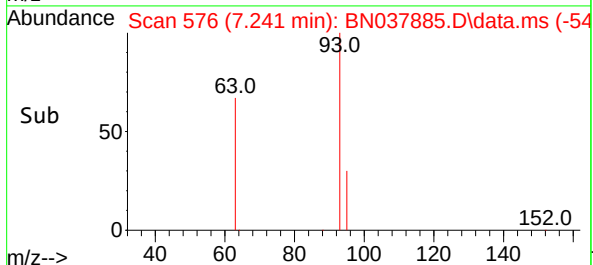
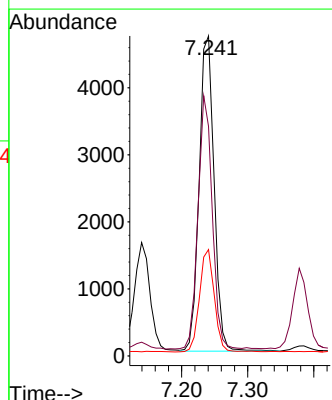
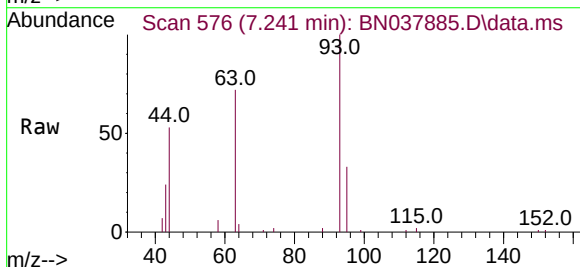
Instrument :
BNA_N
ClientSampleId :
PB169712BS

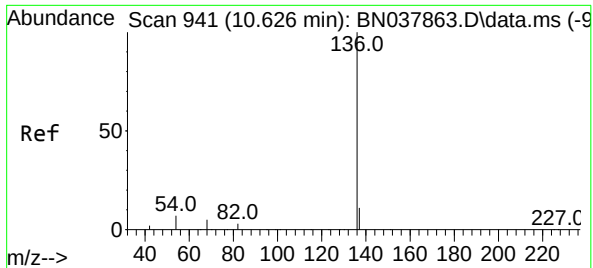
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.2	25.8
71	33.7	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.5	60.1	90.1
95	32.2	25.4	38.2

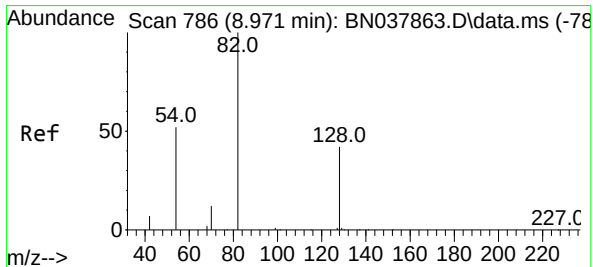
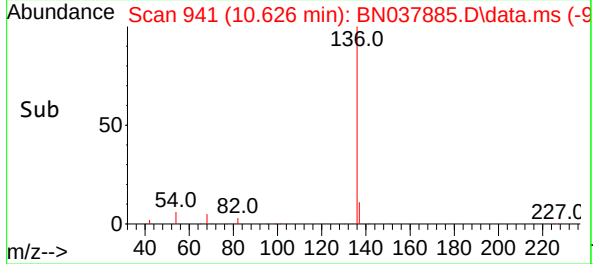
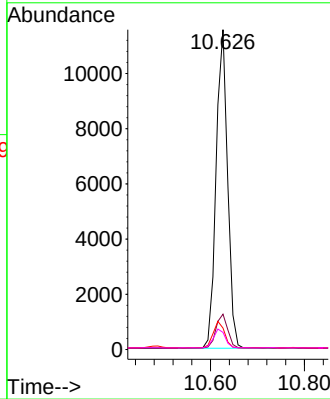
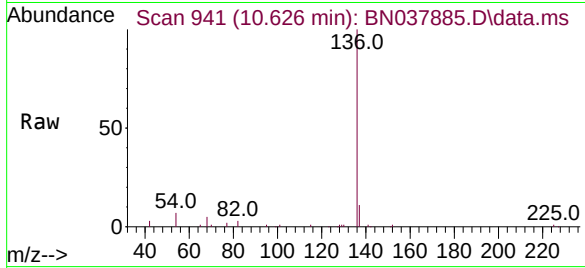




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

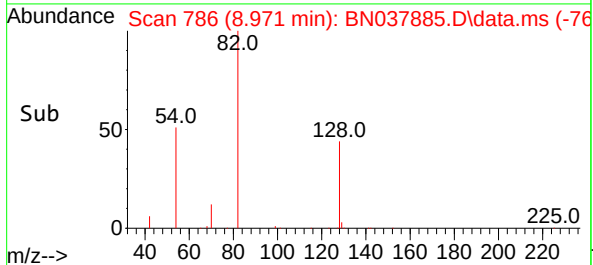
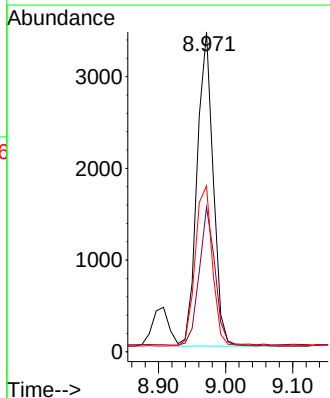
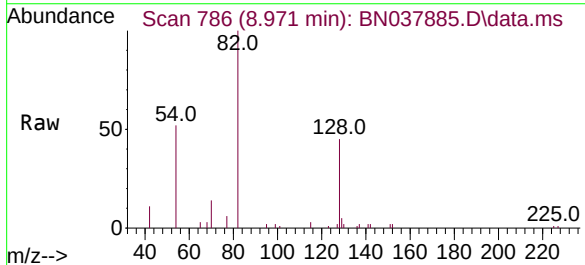
Instrument :
BNA_N
ClientSampleId :
PB169712BS

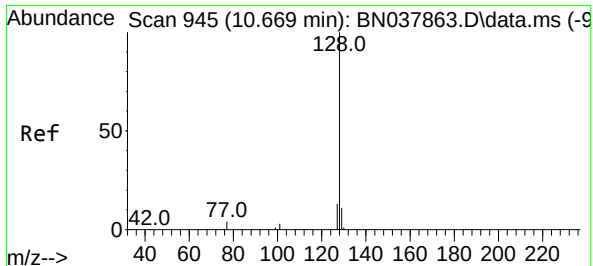
Tgt Ion:	136	Resp:	19552
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.0	13.4
54	6.7	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	82	Resp:	5697
Ion Ratio	Lower	Upper	
82	100		
128	45.2	34.8	52.2
54	51.9	42.2	63.2

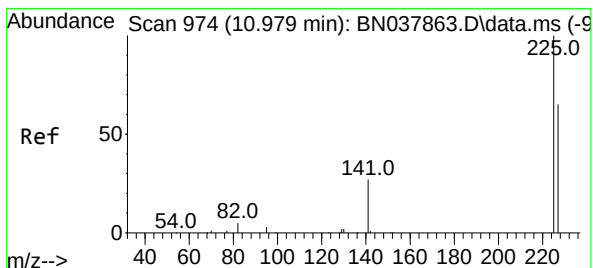
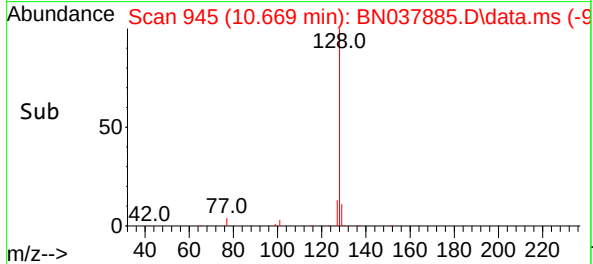
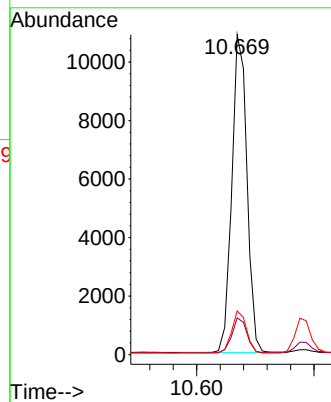
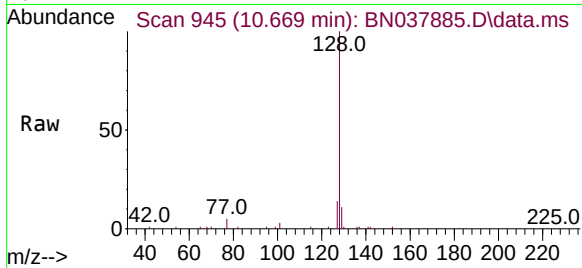




#9
Naphthalene
Concen: 0.360 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

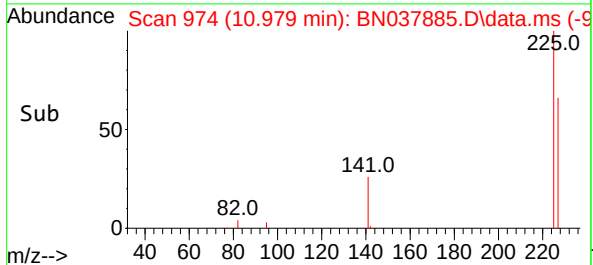
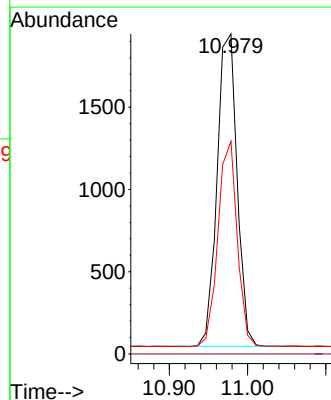
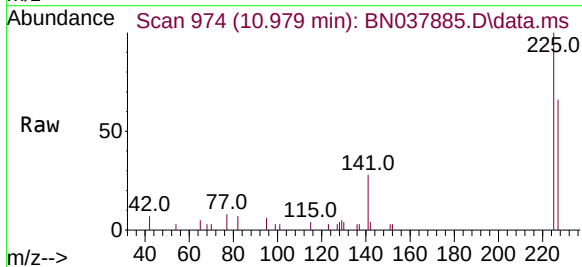
Instrument :
BNA_N
ClientSampleId :
PB169712BS

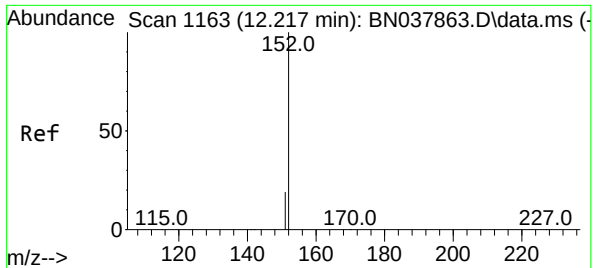
Tgt Ion:128	Resp:	19377
Ion Ratio	Lower	Upper
128	100	
129	11.5	9.2 13.8
127	13.7	11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.368 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:225	Resp:	3383
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	63.1	51.4 77.2

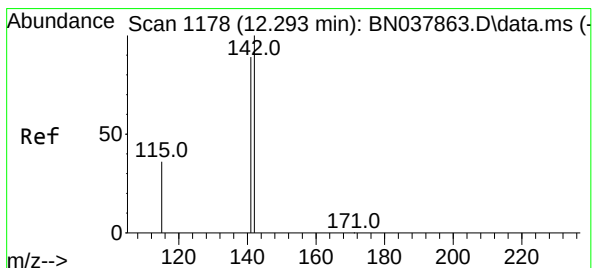
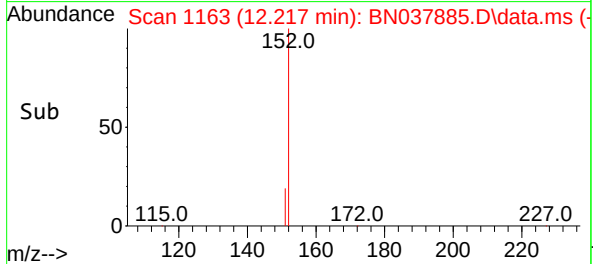
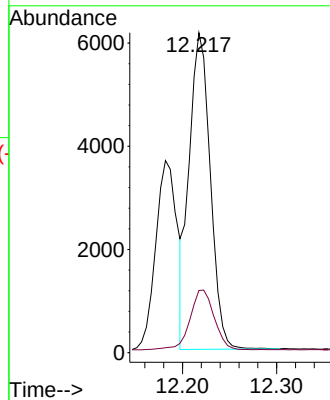
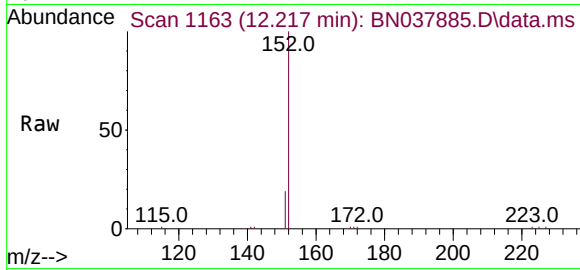




#11
2-Methylnaphthalene-d10
Concen: 0.353 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

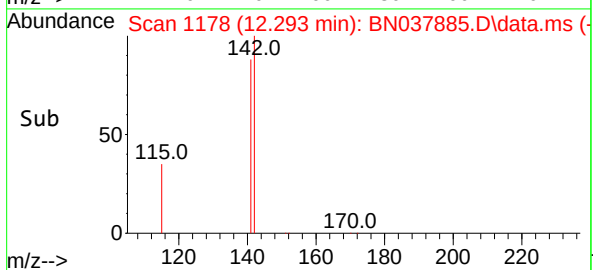
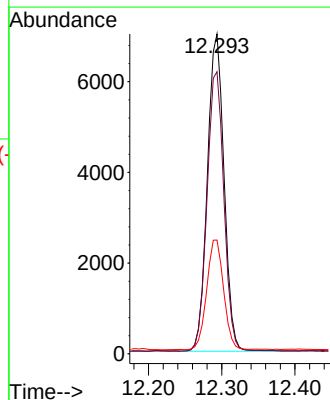
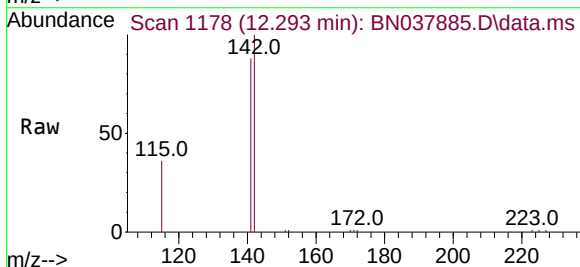
Instrument :
BNA_N
ClientSampleId :
PB169712BS

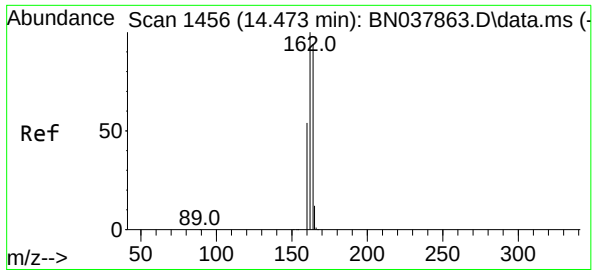
Tgt Ion:152 Resp: 9582
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.314 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:142 Resp: 11047
Ion Ratio Lower Upper
142 100
141 88.2 71.2 106.8
115 35.6 29.7 44.5

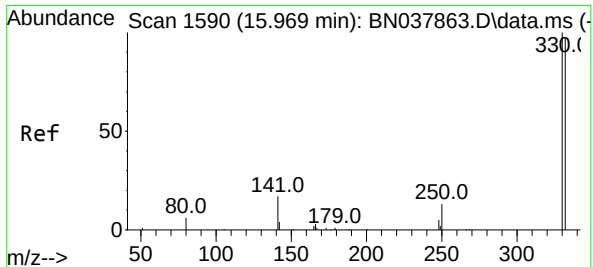
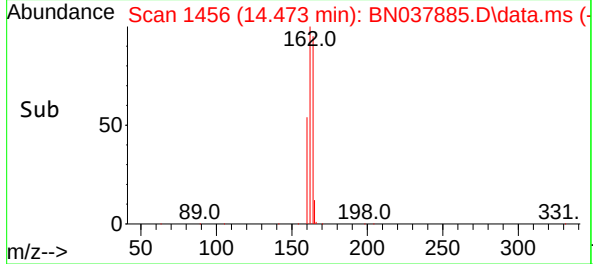
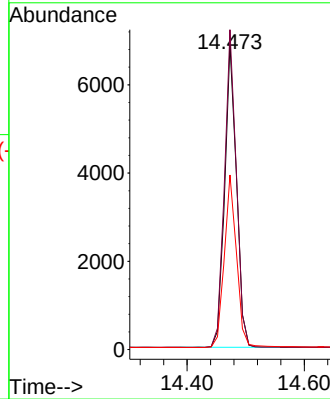
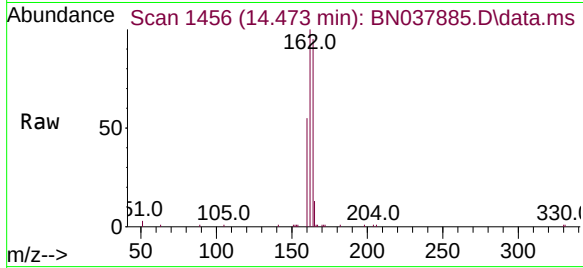




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

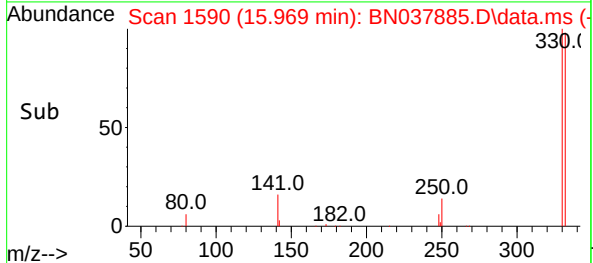
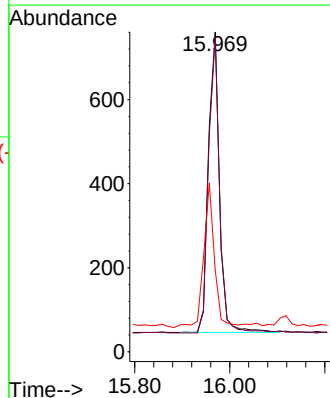
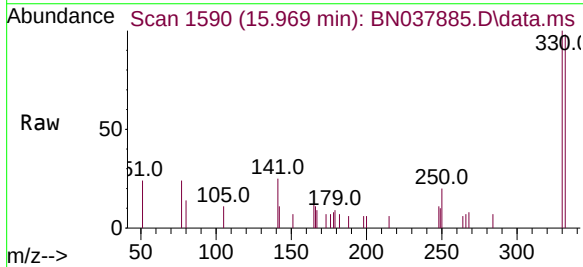
Instrument :
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ClientSampleId :
PB169712BS

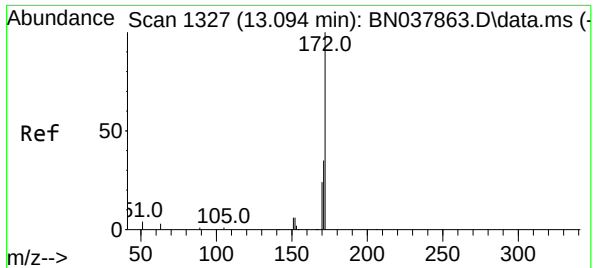
Tgt Ion:	164	Resp:	9660
Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.8	127.2
160	57.3	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	330	Resp:	1148
Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.2	115.8
141	46.7	37.2	55.8

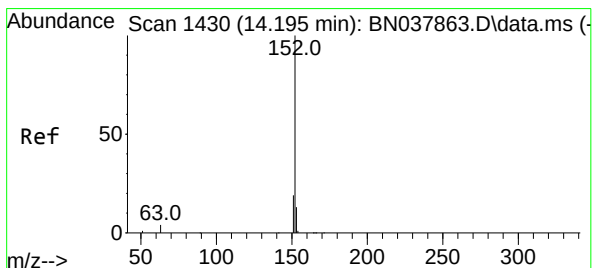
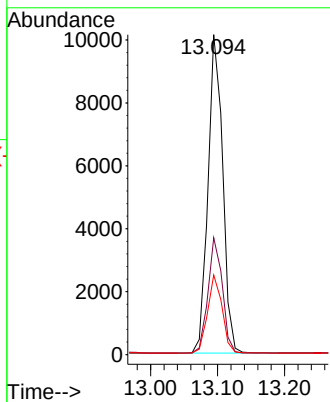
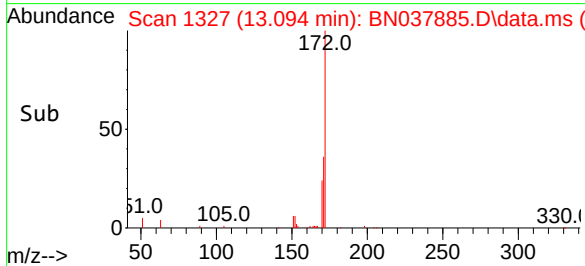
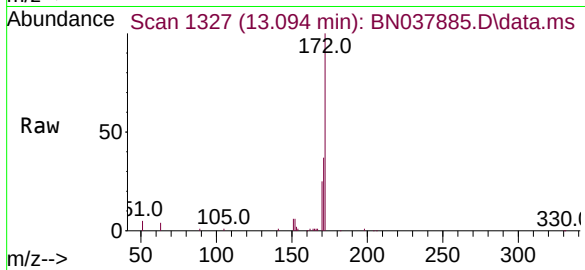




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

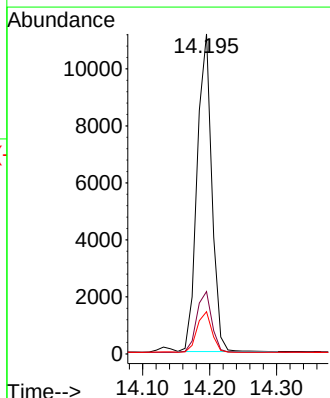
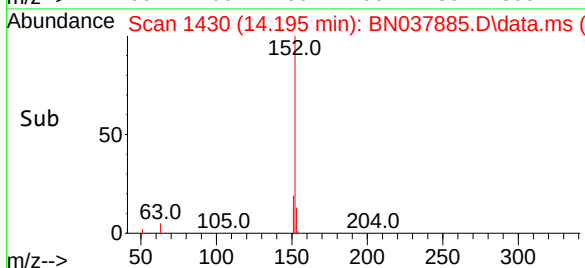
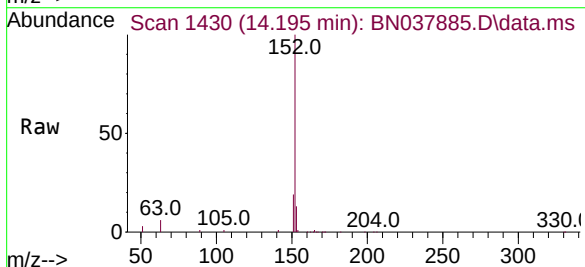
Instrument :
BNA_N
ClientSampleId :
PB169712BS

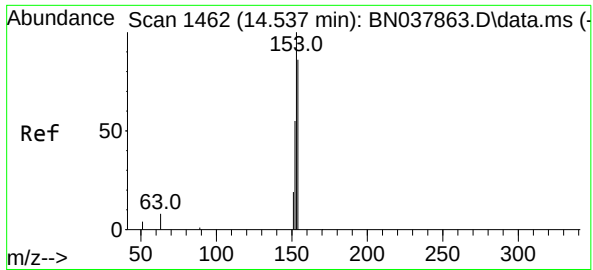
Tgt Ion:	172	Resp:	15472
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.6	43.0
170	24.9	19.7	29.5



#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	152	Resp:	16873
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	12.9	10.5	15.7

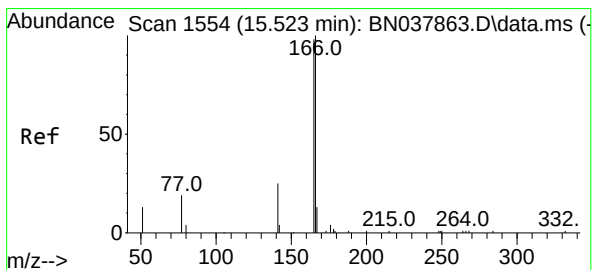
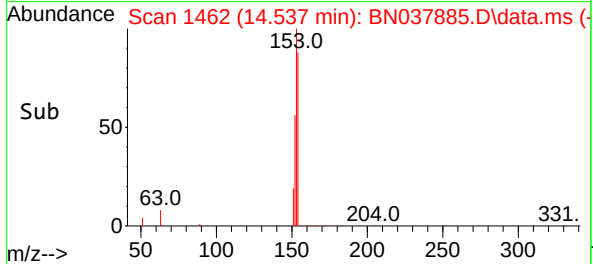
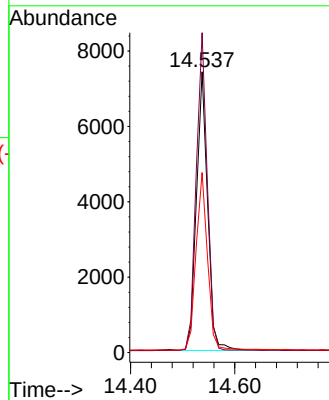
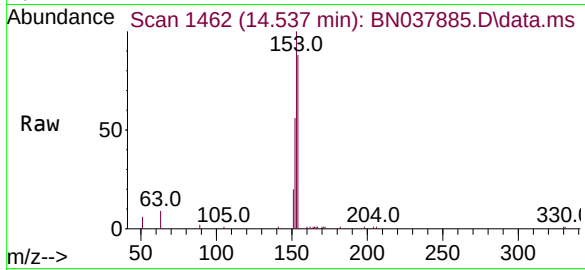




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

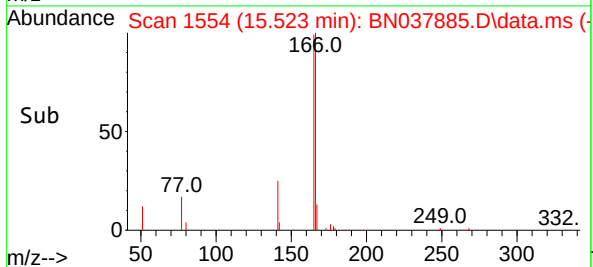
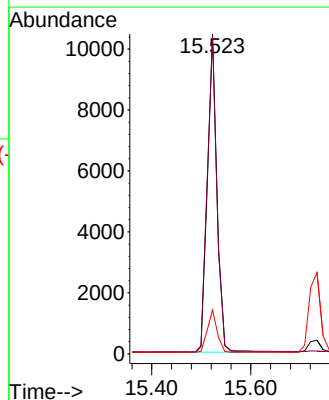
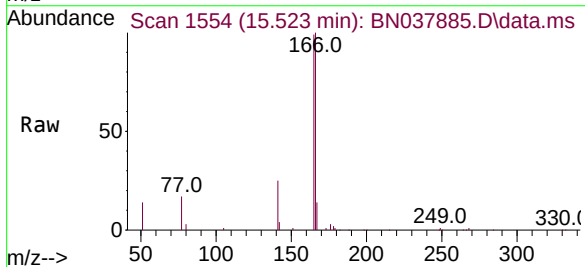
Instrument :
BNA_N
ClientSampleId :
PB169712BS

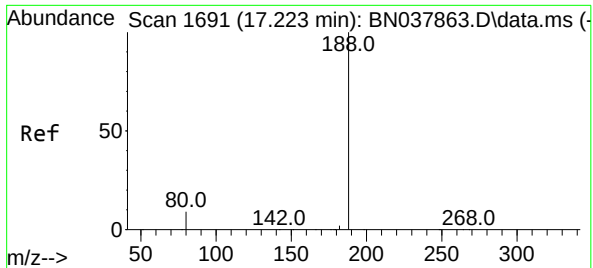
Tgt Ion:154	Resp:	10998
Ion Ratio	Lower	Upper
154	100	
153	112.2	90.5 135.7
152	65.5	51.8 77.8



#18
Fluorene
Concen: 0.359 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:166	Resp:	13577
Ion Ratio	Lower	Upper
166	100	
165	101.9	79.0 118.4
167	13.3	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: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

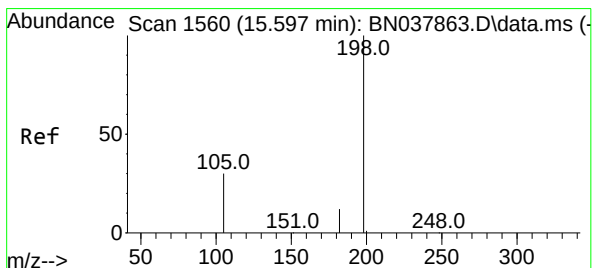
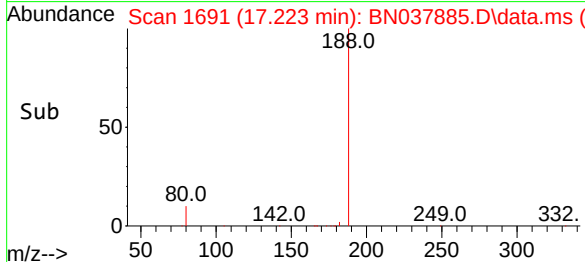
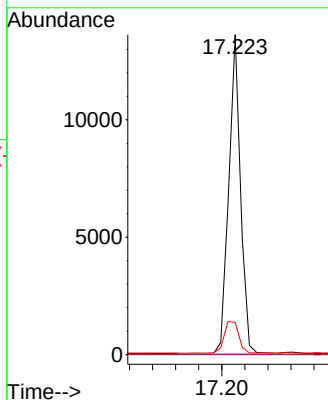
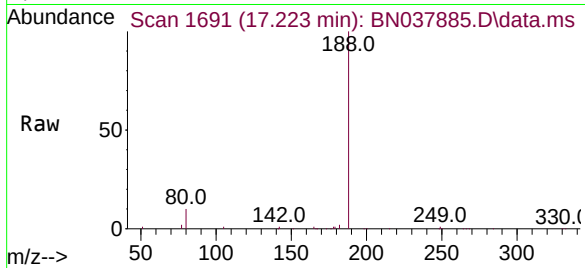
Tgt Ion:188 Resp: 19122

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

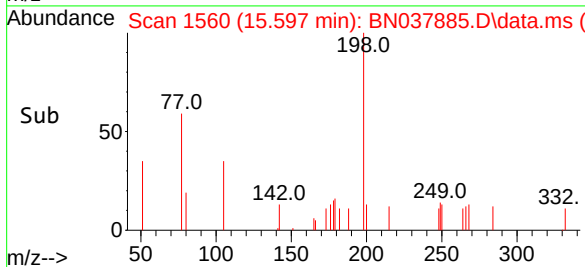
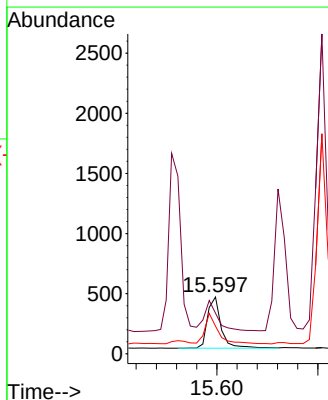
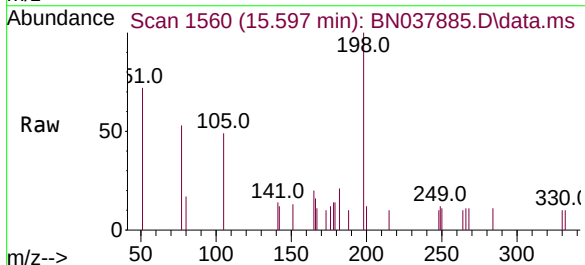
Tgt Ion:198 Resp: 798

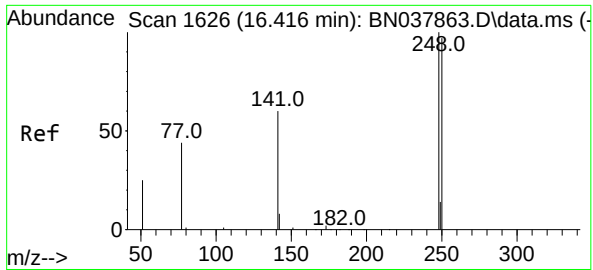
Ion Ratio Lower Upper

198 100

51 71.7 59.1 88.7

105 48.8 41.3 61.9

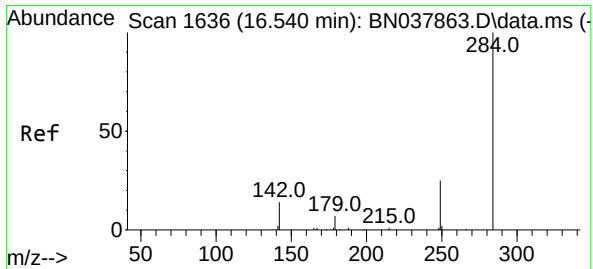
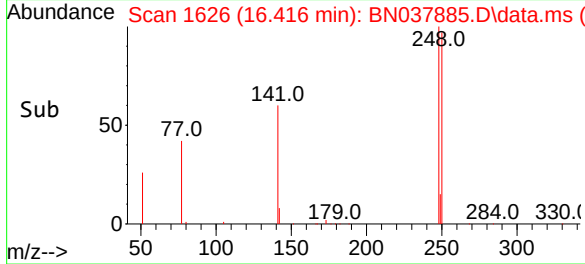
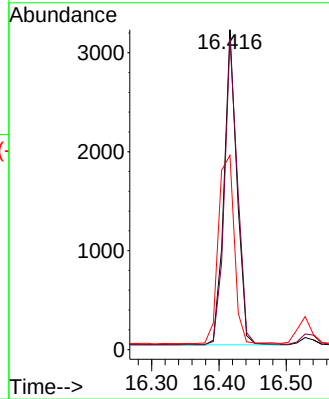
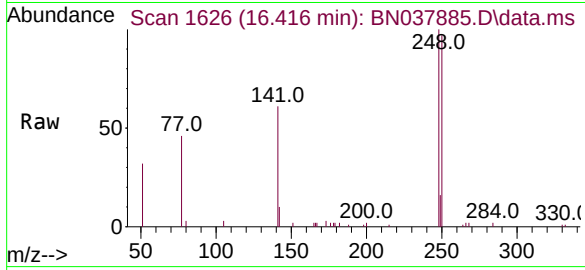




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

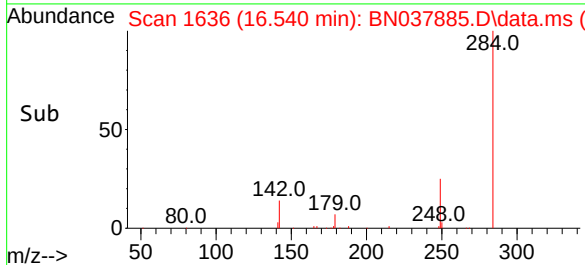
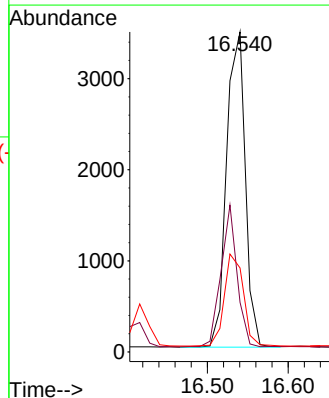
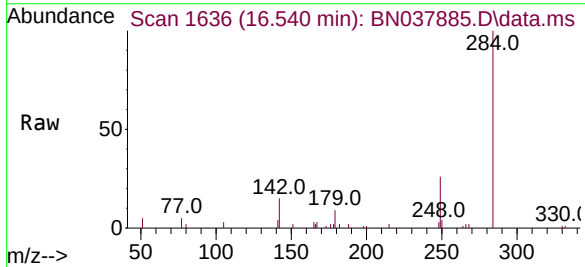
Instrument :
BNA_N
ClientSampleId :
PB169712BS

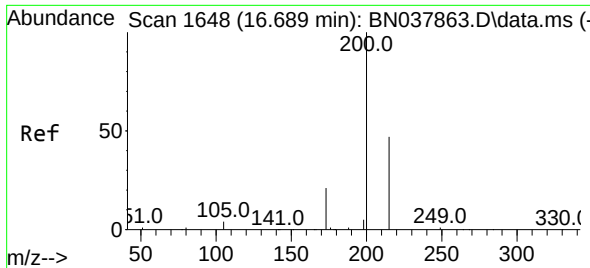
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.6	116.4
141	60.7	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.8	23.9	35.9

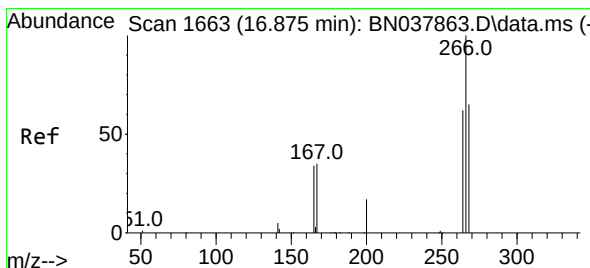
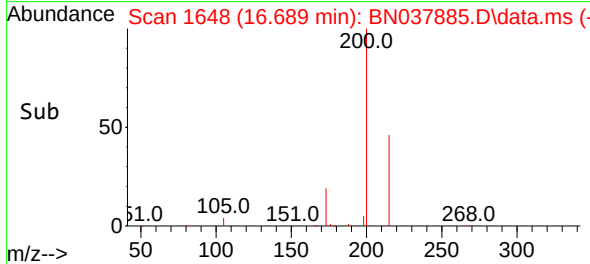
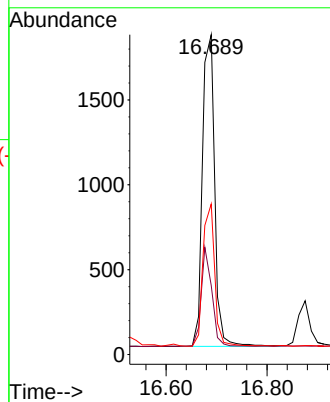
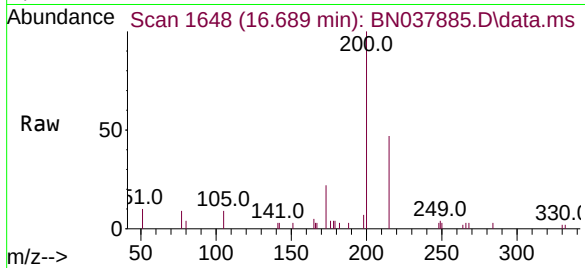




#23
Atrazine
Concen: 0.324 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

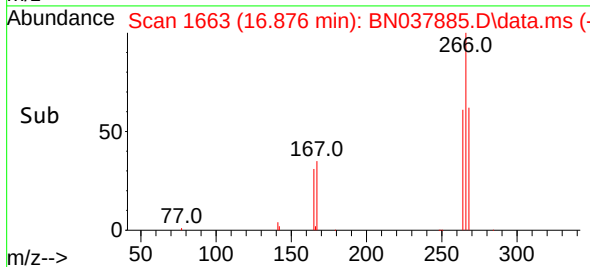
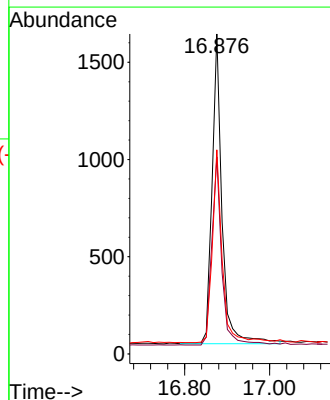
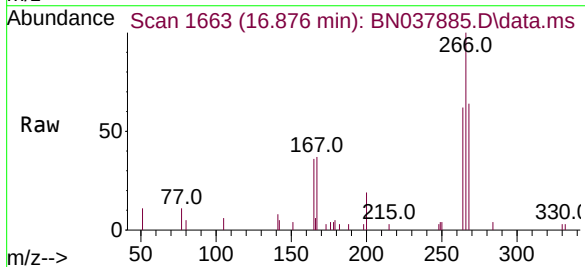
Instrument :
BNA_N
ClientSampleId :
PB169712BS

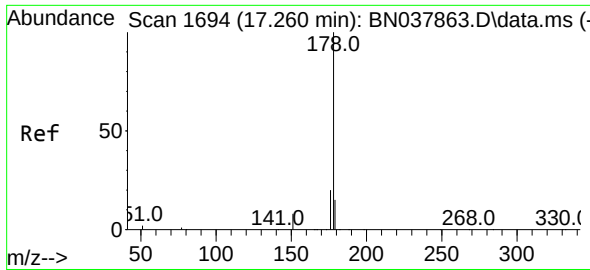
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.5	18.3	27.5
215	47.1	38.6	58.0



#24
Pentachlorophenol
Concen: 0.499 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.8	50.9	76.3
268	61.9	54.3	81.5

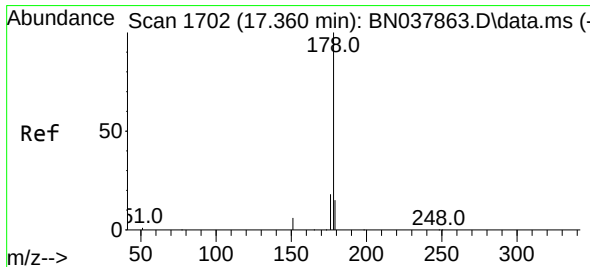
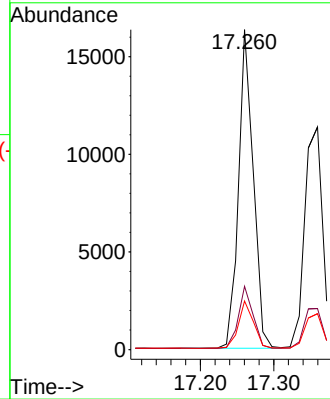
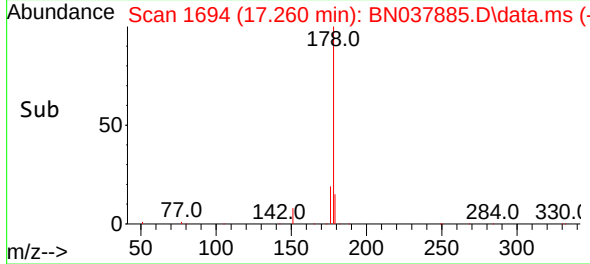
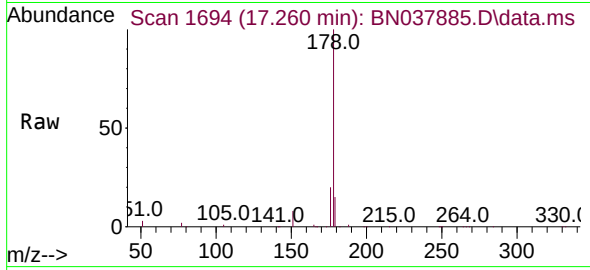




#25
Phenanthrene
Concen: 0.364 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

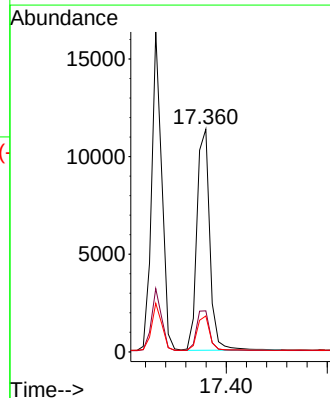
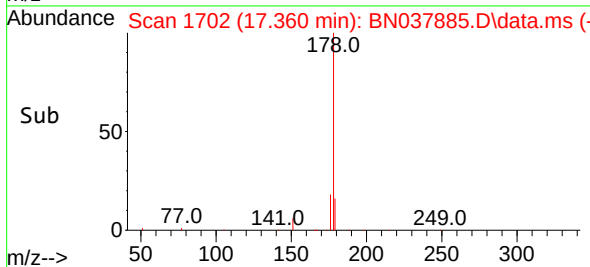
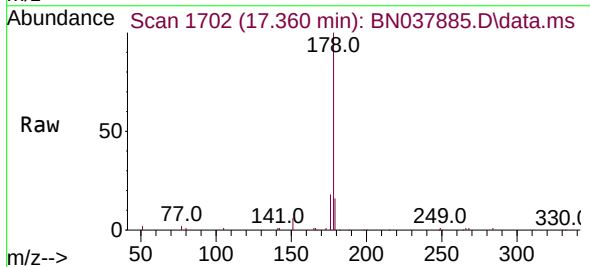
Instrument :
BNA_N
ClientSampleId :
PB169712BS

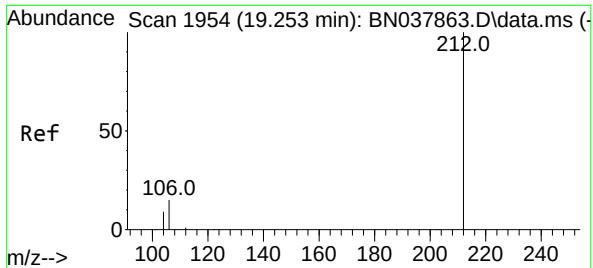
Tgt Ion:178 Resp: 22894
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:178 Resp: 19907
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.342 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

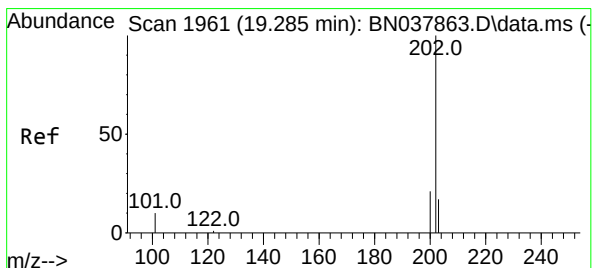
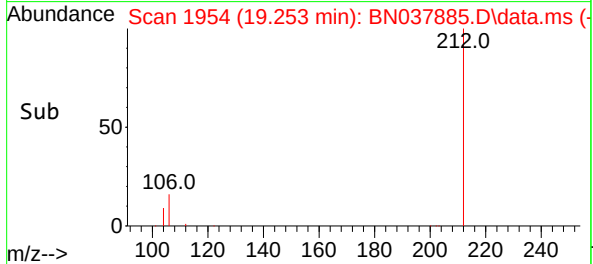
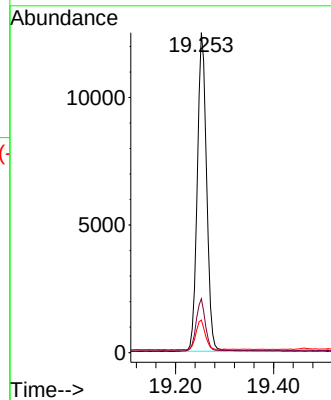
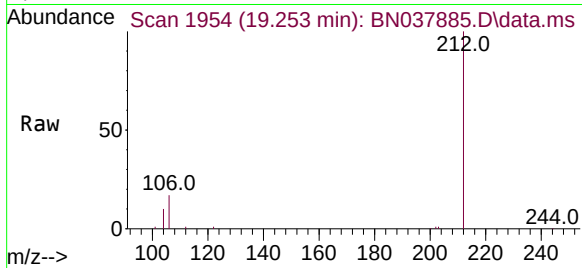
Tgt Ion:212 Resp: 16458

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.337 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

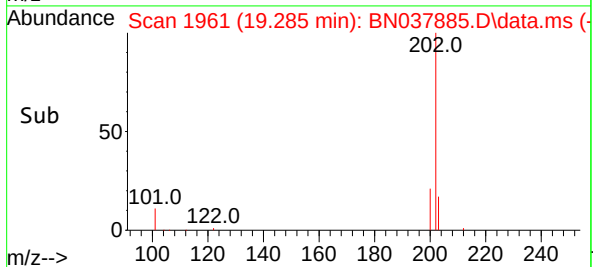
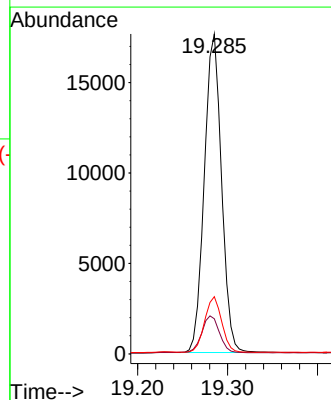
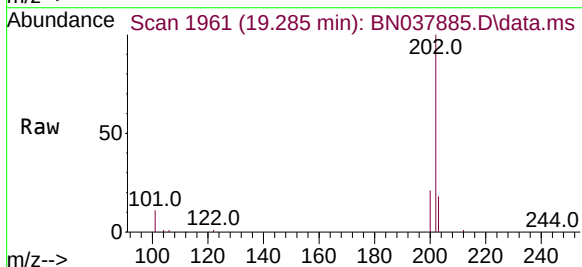
Tgt Ion:202 Resp: 23355

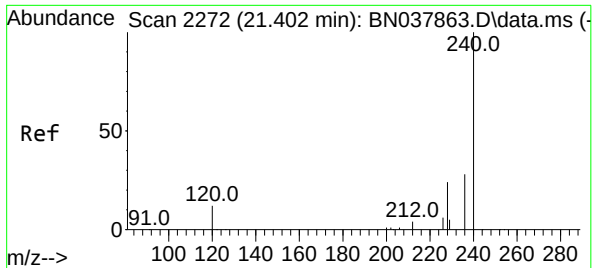
Ion Ratio Lower Upper

202 100

101 12.3 9.3 13.9

203 17.3 13.6 20.4

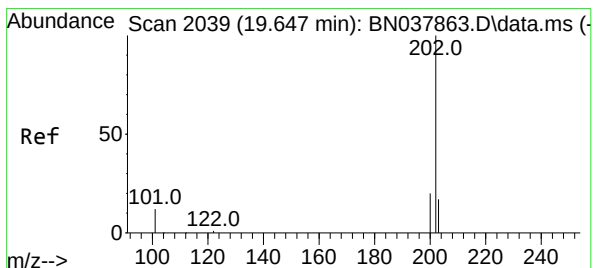
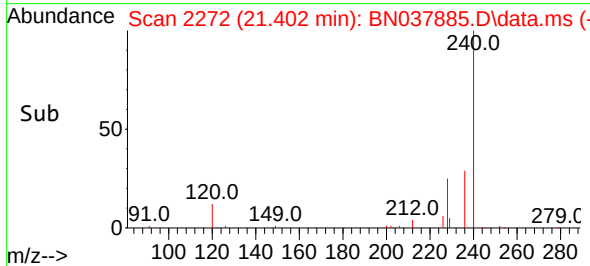
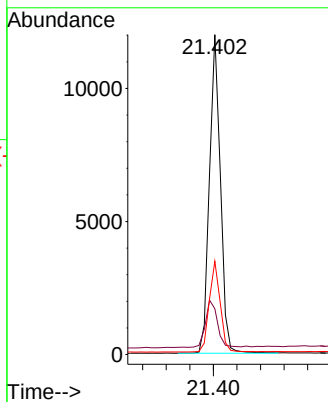
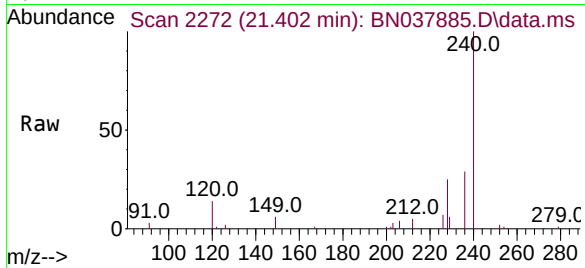




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

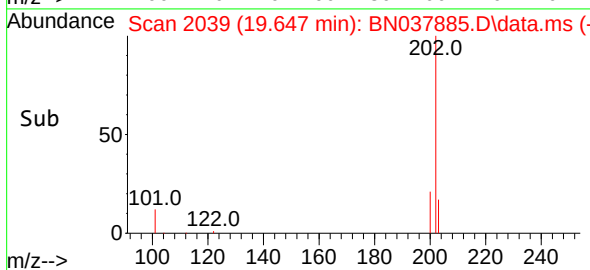
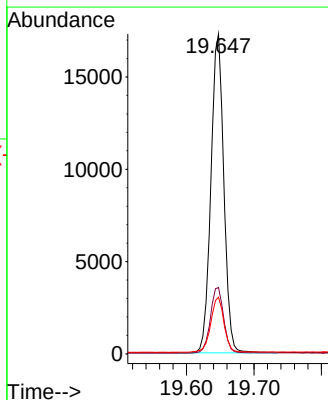
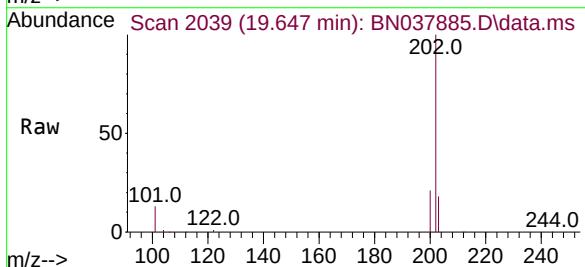
Instrument :
BNA_N
ClientSampleId :
PB169712BS

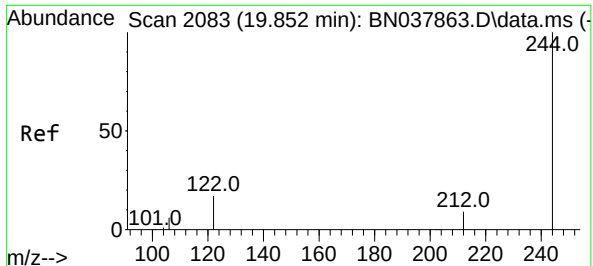
Tgt Ion:	240	Resp:	15460
Ion Ratio	Lower	Upper	
240	100		
120	14.3	11.4	17.2
236	29.2	23.0	34.6



#30
Pyrene
Concen: 0.377 ng
RT: 19.647 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	202	Resp:	23008
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

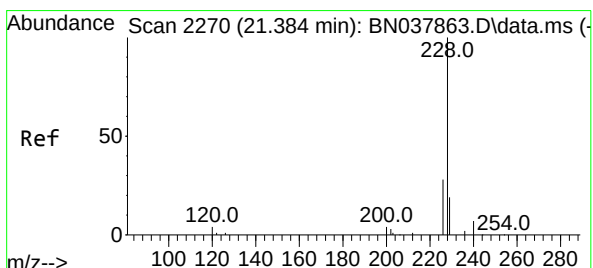
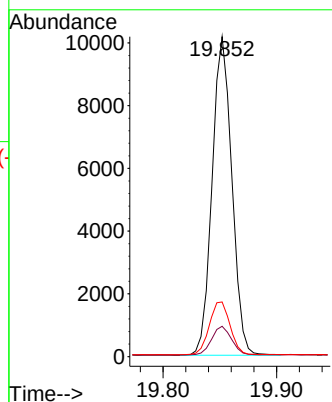
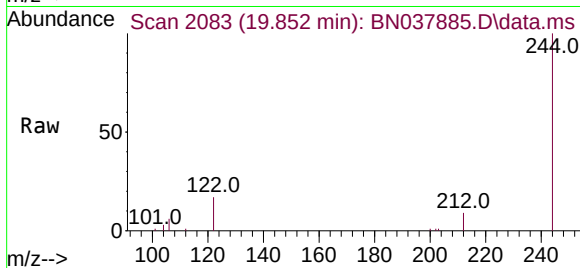




#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

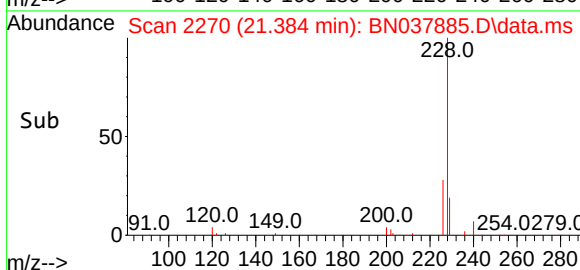
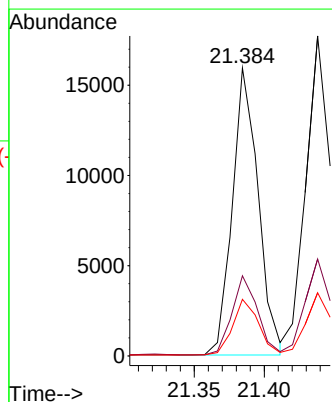
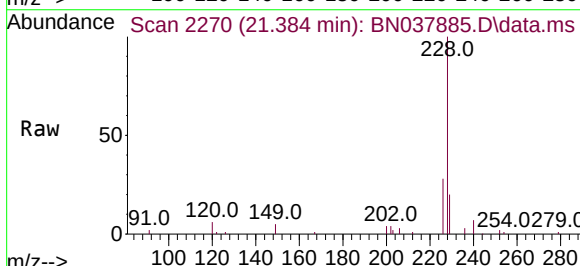
Instrument :
BNA_N
ClientSampleId :
PB169712BS

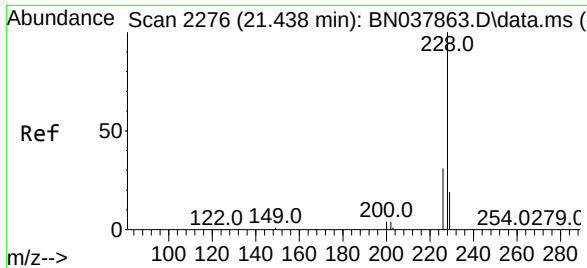
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.1	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	19.7	15.6	23.4





#33

Chrysene

Concen: 0.386 ng

RT: 21.438 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

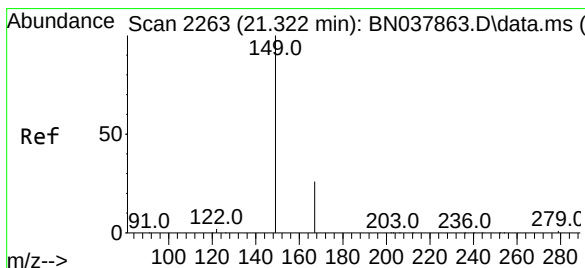
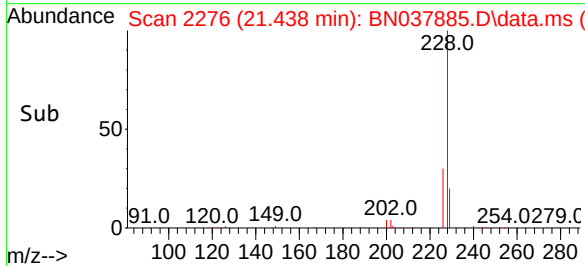
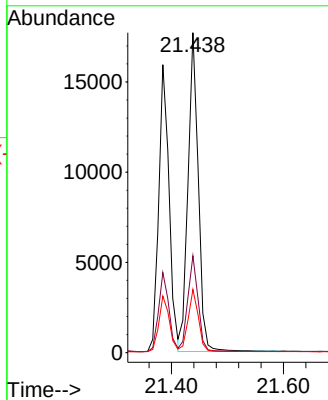
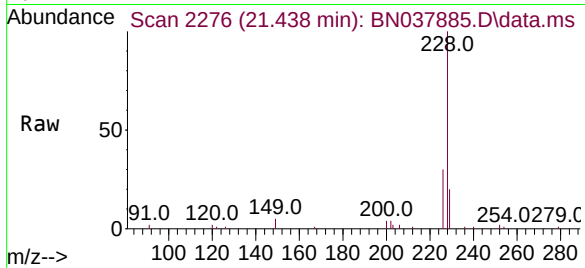
Tgt Ion:228 Resp: 22553

Ion Ratio Lower Upper

228 100

226 30.3 24.6 37.0

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.316 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

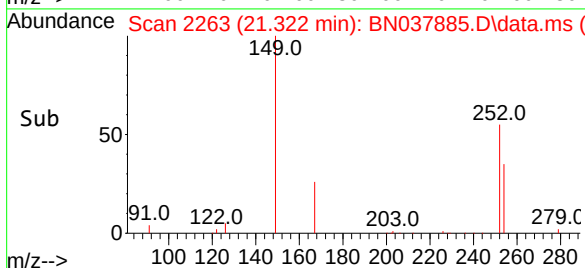
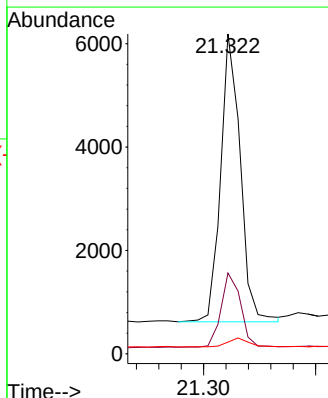
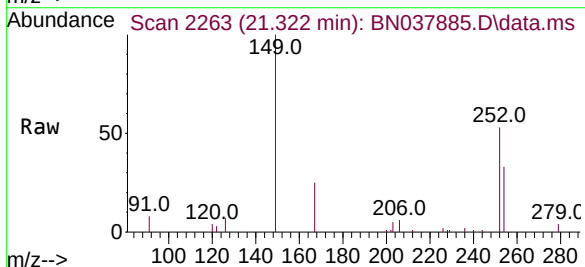
Tgt Ion:149 Resp: 6759

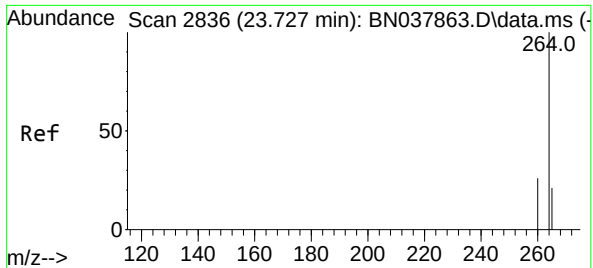
Ion Ratio Lower Upper

149 100

167 25.8 20.4 30.6

279 3.1 2.4 3.6

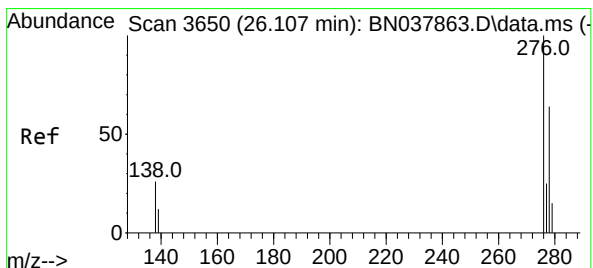
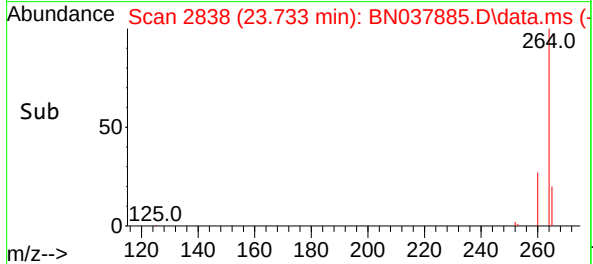
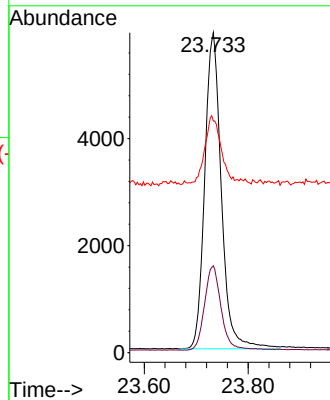
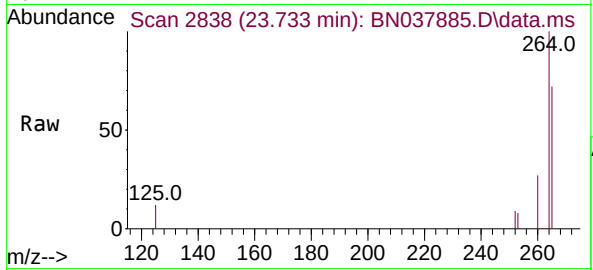




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2836
Delta R.T. 0.006 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

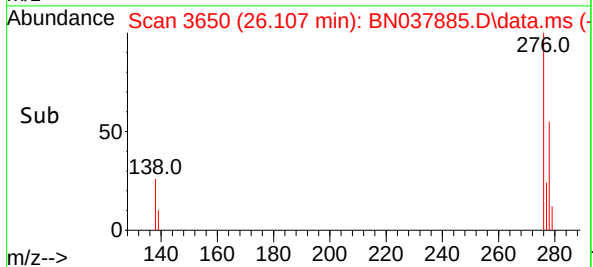
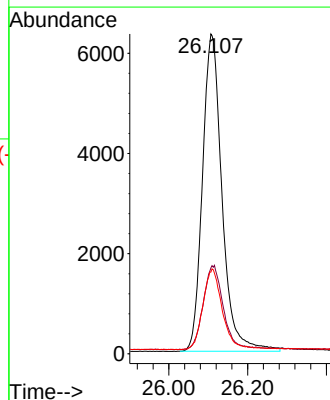
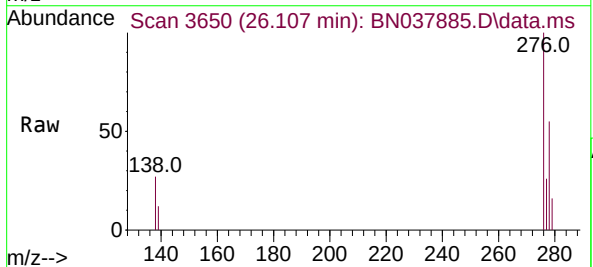
Instrument :
BNA_N
ClientSampleId :
PB169712BS

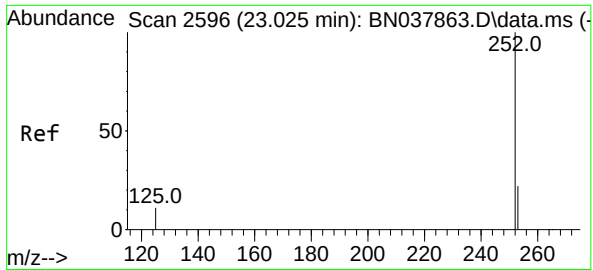
Tgt Ion:264 Resp: 13073
Ion Ratio Lower Upper
264 100
260 27.1 21.5 32.3
265 72.4 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 26.107 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:276 Resp: 21870
Ion Ratio Lower Upper
276 100
138 27.1 21.4 32.0
277 24.9 20.3 30.5

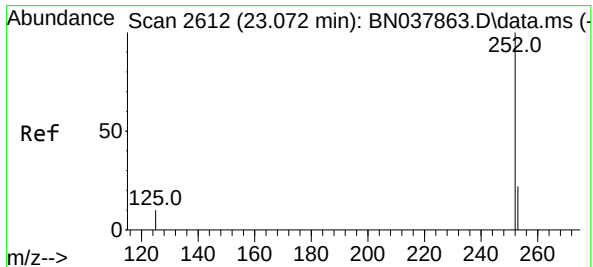
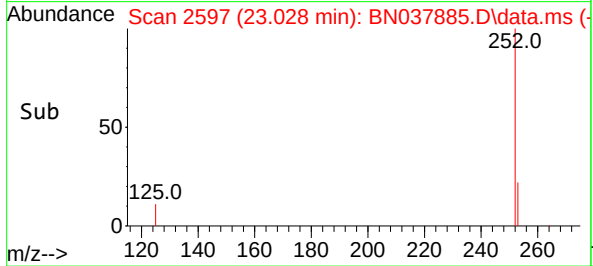
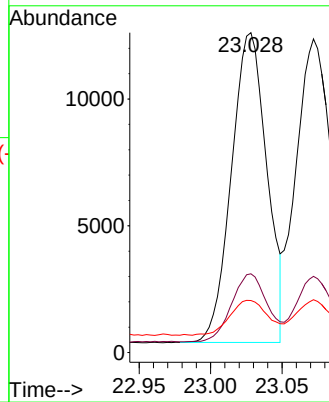
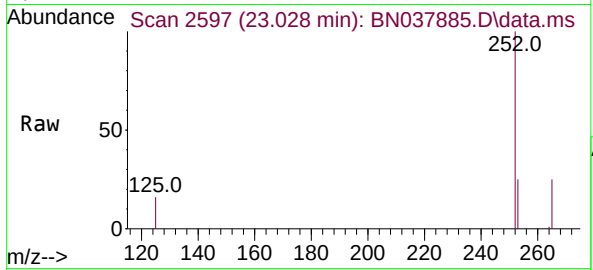




#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 23.028 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

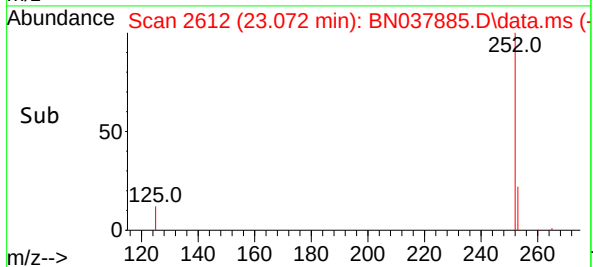
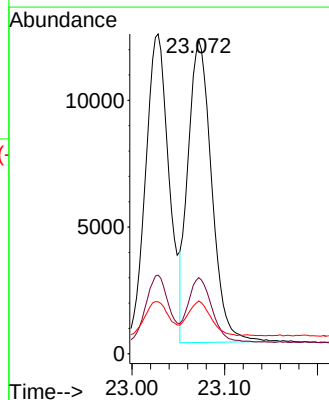
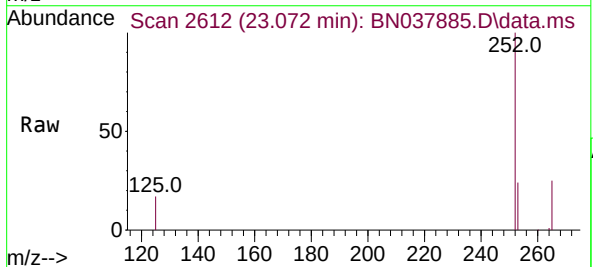
Instrument :
BNA_N
ClientSampleId :
PB169712BS

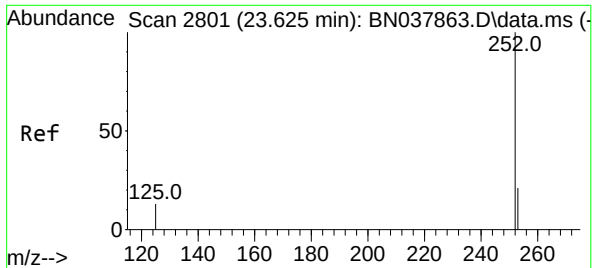
Tgt Ion:252	Resp:	21060
Ion Ratio	Lower	Upper
252	100	
253	24.6	19.4 29.0
125	16.3	13.0 19.4



#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 23.072 min Scan# 2612
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:252	Resp:	21159
Ion Ratio	Lower	Upper
252	100	
253	24.3	19.5 29.3
125	16.8	13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

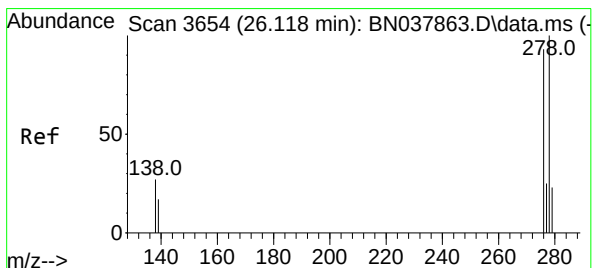
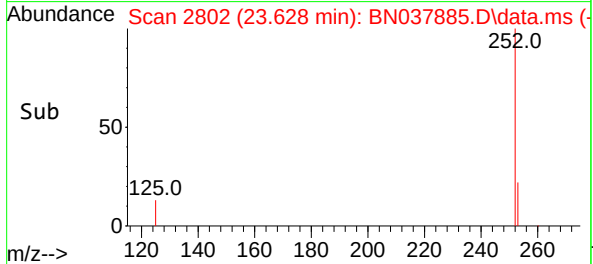
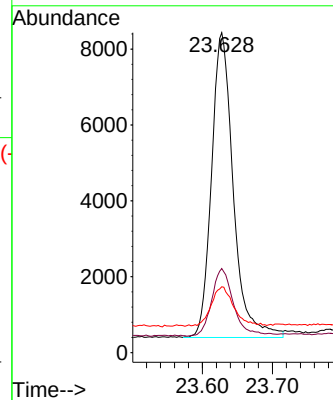
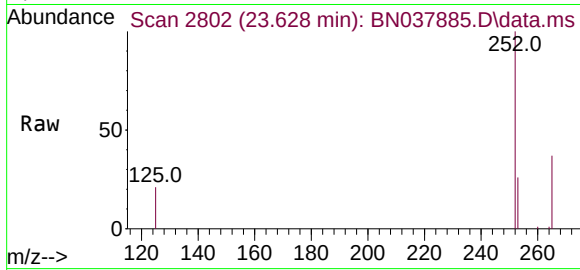
Tgt Ion:252 Resp: 17352

Ion Ratio Lower Upper

252 100

253 26.3 20.6 30.8

125 20.6 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 26.124 min Scan# 3656

Delta R.T. 0.006 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

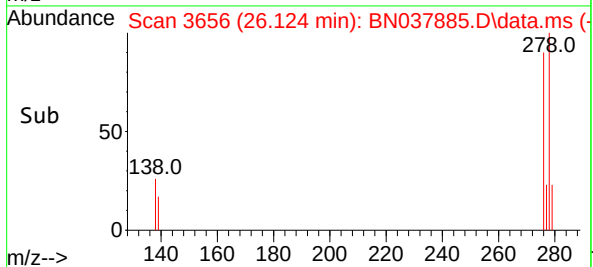
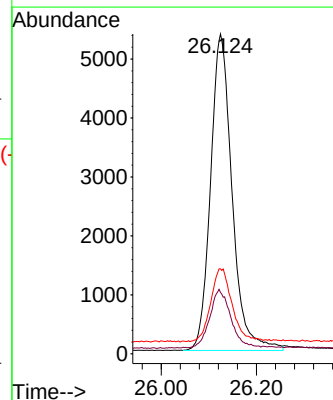
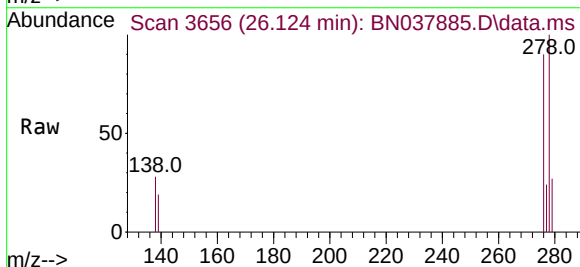
Tgt Ion:278 Resp: 16856

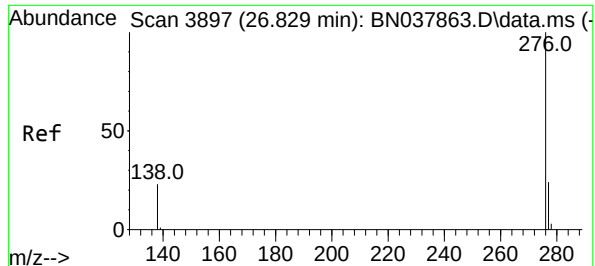
Ion Ratio Lower Upper

278 100

139 19.2 15.4 23.2

279 26.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.832 min Scan# 38

Delta R.T. 0.003 min

Lab File: BN037885.D

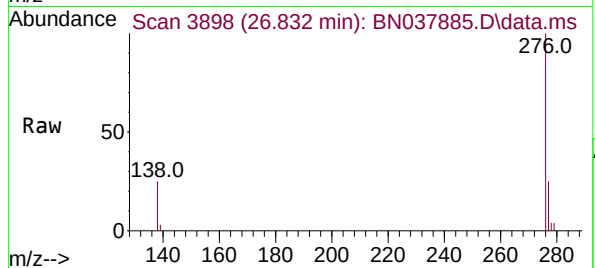
Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS



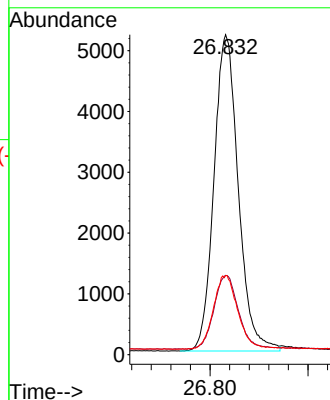
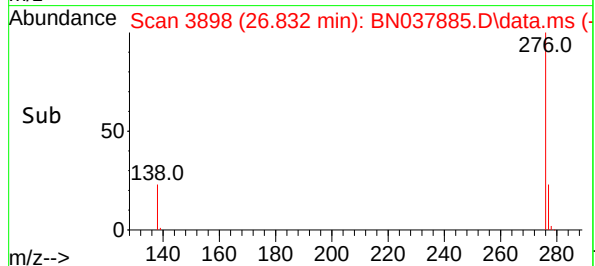
Tgt Ion:276 Resp: 17953

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.4

138 24.7 19.8 29.8



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB169712BSD	SDG No.:	Q3097
Lab Sample ID:	PB169712BSD	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
BN037888.D	1	09/16/25 09:39	09/25/25 14:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	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	6840	7.826				
1146-65-2	Naphthalene-d8	18500	10.626				
15067-26-2	Acenaphthene-d10	8850	14.473				
1517-22-2	Phenanthrene-d10	17000	17.223				
1719-03-5	Chrysene-d12	11900	21.402				
1520-96-3	Perylene-d12	9040	23.736				

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\BN092525\
 Data File : BN037888.D
 Acq On : 25 Sep 2025 14:34
 Operator : RC/JU
 Sample : PB169712BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169712BSD

Quant Time: Sep 25 15:00:42 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)

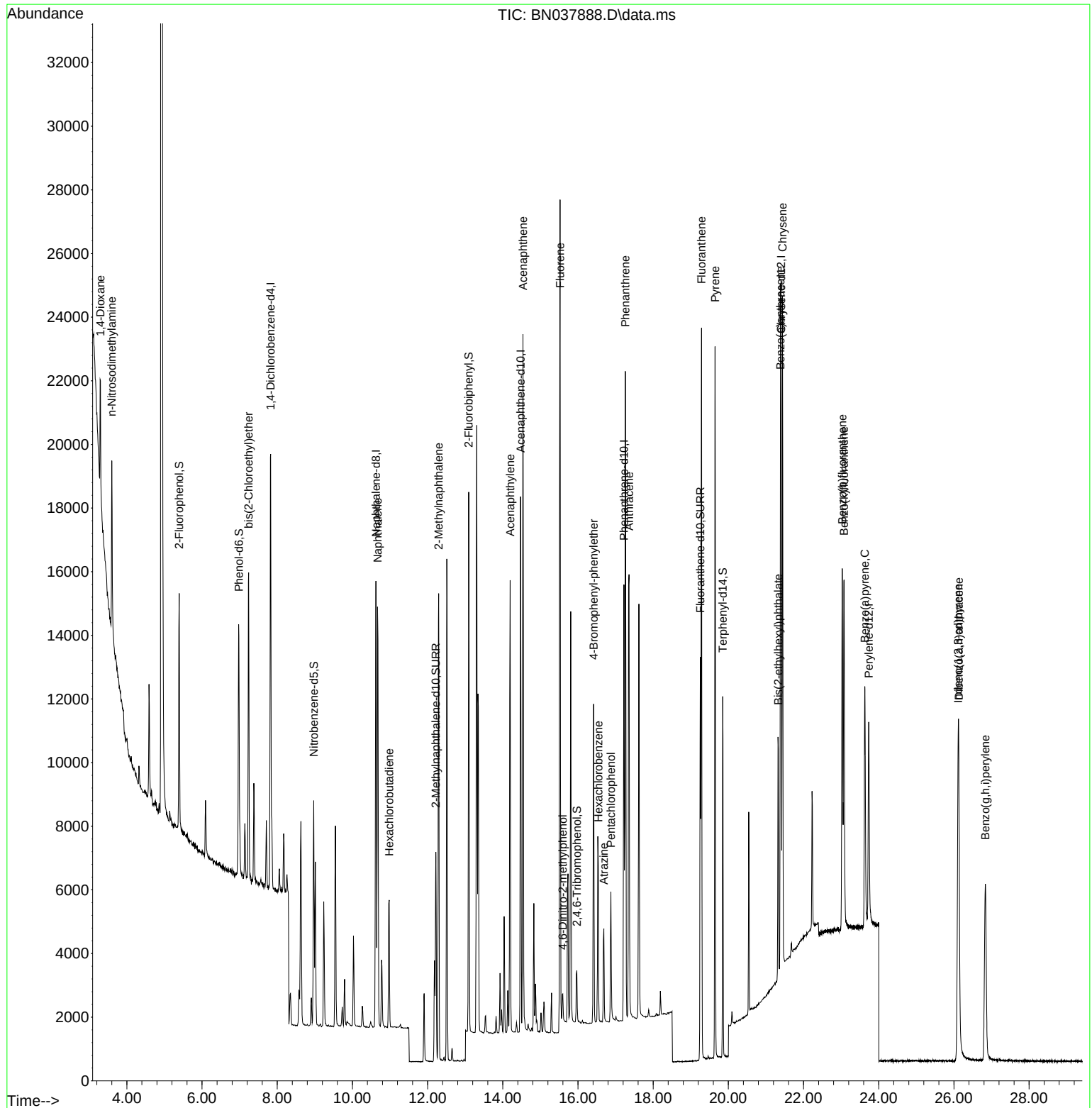
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	6836	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18512	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8848	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16966	0.400	ng	0.00
29) Chrysene-d12	21.402	240	11857	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	9036	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5760	0.369	ng	0.00
5) Phenol-d6	6.981	99	7323	0.357	ng	0.00
8) Nitrobenzene-d5	8.971	82	5500	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8949	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1023	0.305	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14311	0.395	ng	0.00
27) Fluoranthene-d10	19.253	212	13821	0.324	ng	0.00
31) Terphenyl-d14	19.852	244	10203	0.432	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2281	0.329	ng	# 34
3) n-Nitrosodimethylamine	3.601	42	3666	0.397	ng	# 83
6) bis(2-Chloroethyl)ether	7.241	93	6927	0.364	ng	98
9) Naphthalene	10.669	128	18228	0.357	ng	99
10) Hexachlorobutadiene	10.979	225	3382	0.389	ng	# 100
12) 2-Methylnaphthalene	12.294	142	10261	0.308	ng	98
16) Acenaphthylene	14.195	152	15564	0.387	ng	99
17) Acenaphthene	14.537	154	10066	0.352	ng	99
18) Fluorene	15.523	166	12500	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	708	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.416	248	3842	0.348	ng	98
22) Hexachlorobenzene	16.540	284	4957	0.370	ng	99
23) Atrazine	16.689	200	2601	0.309	ng	99
24) Pentachlorophenol	16.876	266	2099	0.456	ng	95
25) Phenanthrene	17.260	178	20245	0.363	ng	100
26) Anthracene	17.360	178	17667	0.365	ng	100
28) Fluoranthene	19.285	202	19835	0.323	ng	99
30) Pyrene	19.648	202	19419	0.415	ng	100
32) Benzo(a)anthracene	21.384	228	15371	0.371	ng	99
33) Chrysene	21.438	228	17365	0.388	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4456	0.272	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	14519	0.352	ng	99
37) Benzo(b)fluoranthene	23.028	252	15158	0.389	ng	96
38) Benzo(k)fluoranthene	23.078	252	14723	0.376	ng	96
39) Benzo(a)pyrene	23.630	252	12124	0.393	ng	96
40) Dibenzo(a,h)anthracene	26.127	278	11453	0.355	ng	95
41) Benzo(g,h,i)perylene	26.838	276	12421	0.367	ng	99

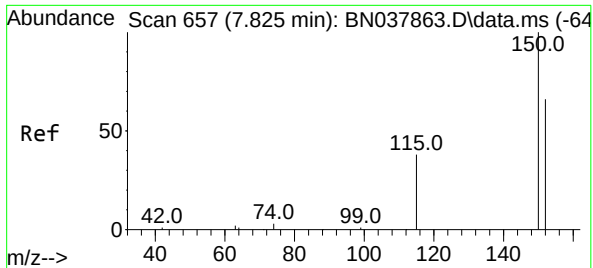
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037888.D
Acq On : 25 Sep 2025 14:34
Operator : RC/JU
Sample : PB169712BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Quant Time: Sep 25 15:00:42 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

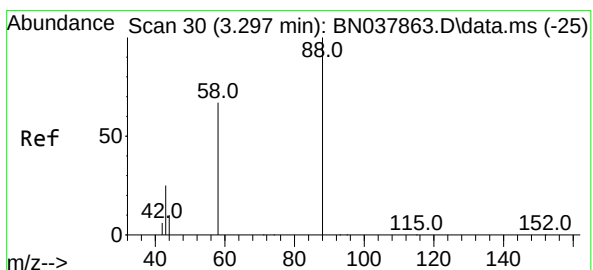
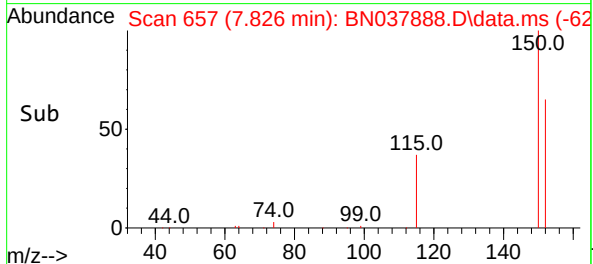
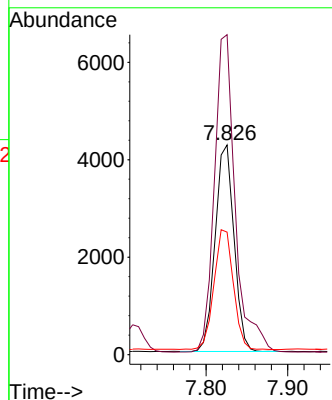
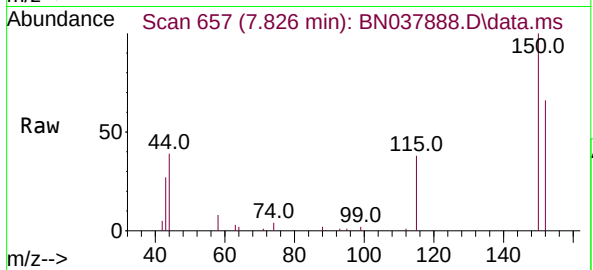




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

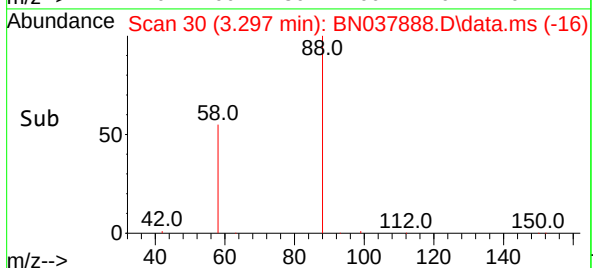
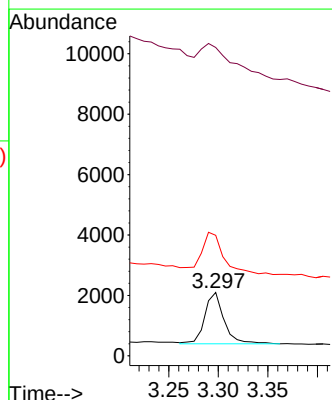
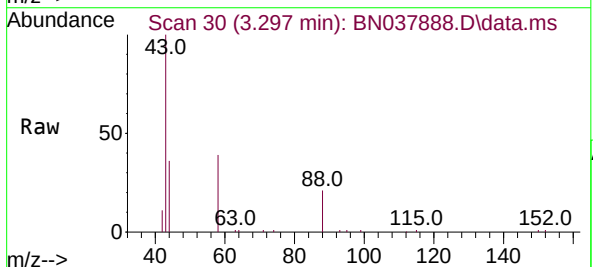
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

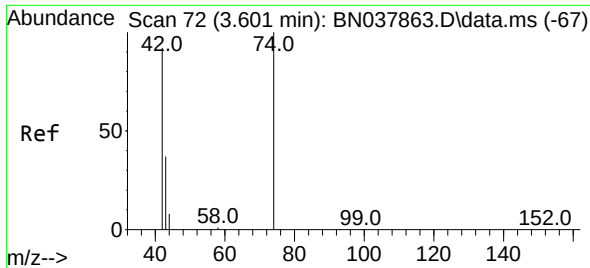
Tgt Ion:152 Resp: 6836
Ion Ratio Lower Upper
152 100
150 152.6 121.0 181.4
115 58.4 47.4 71.0



#2
1,4-Dioxane
Concen: 0.329 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 88 Resp: 2281
Ion Ratio Lower Upper
88 100
43 116.9 26.6 39.8#
58 98.1 58.9 88.3#

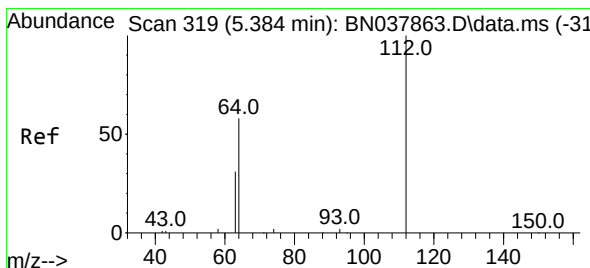
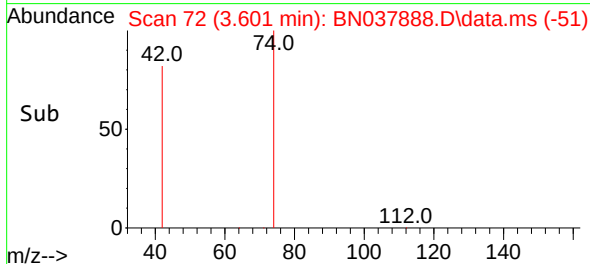
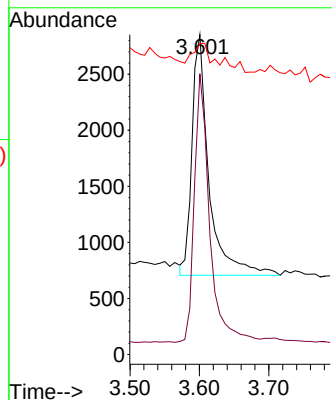
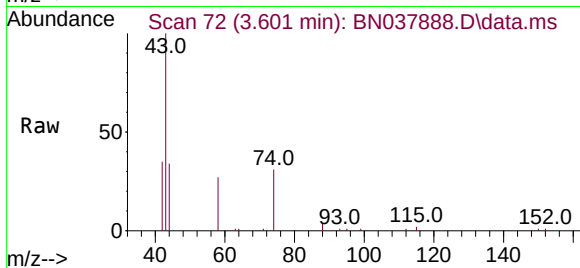




#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.601 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

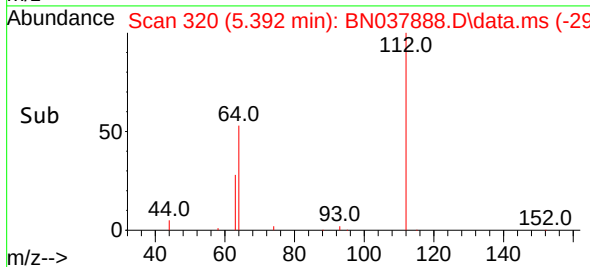
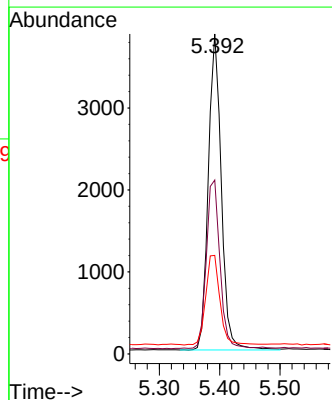
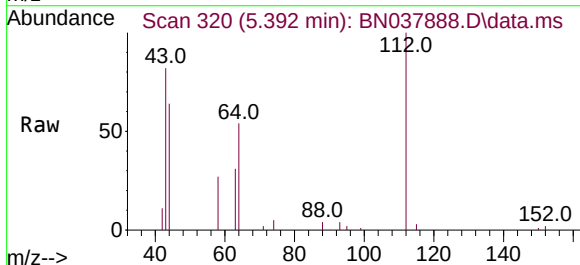
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

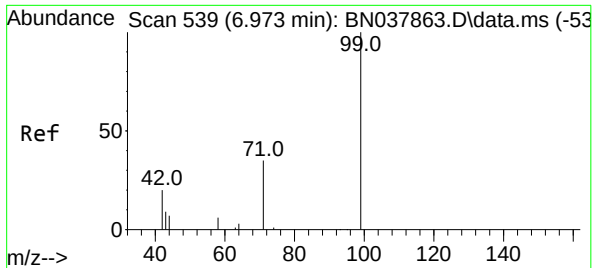
Tgt Ion: 42 Resp: 3666
Ion Ratio Lower Upper
42 100
74 99.6 93.4 140.0
44 16.8 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.369 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 112 Resp: 5760
Ion Ratio Lower Upper
112 100
64 56.3 44.6 66.8
63 31.1 24.9 37.3

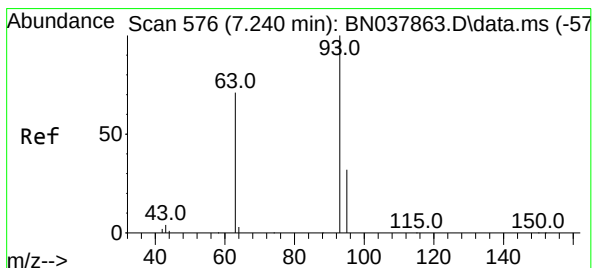
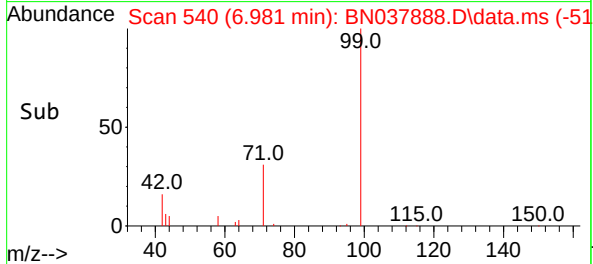
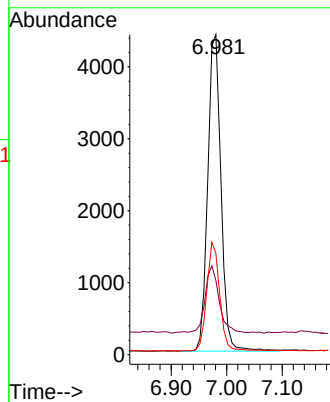
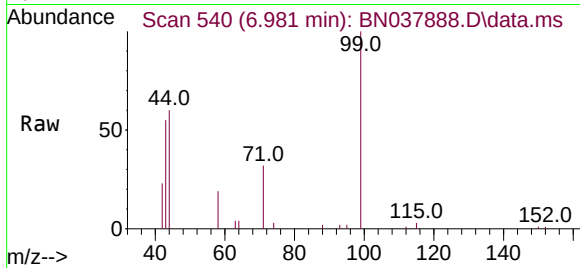




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

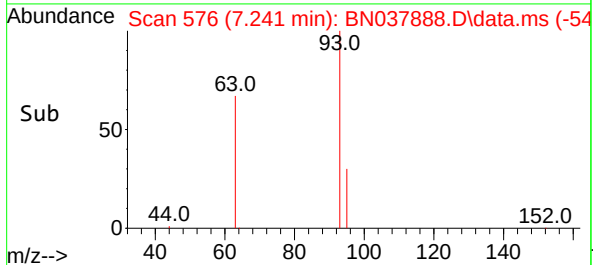
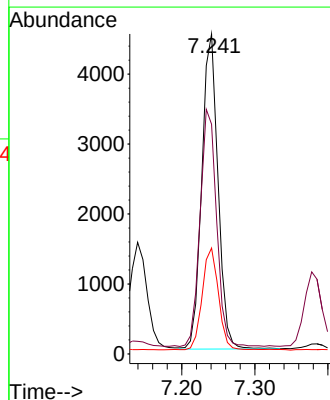
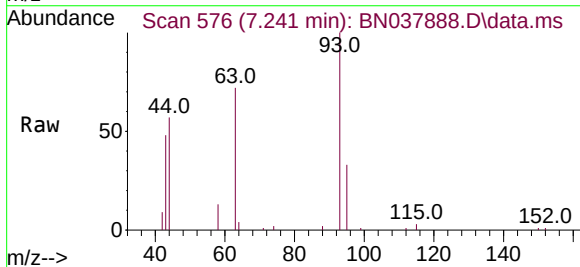
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

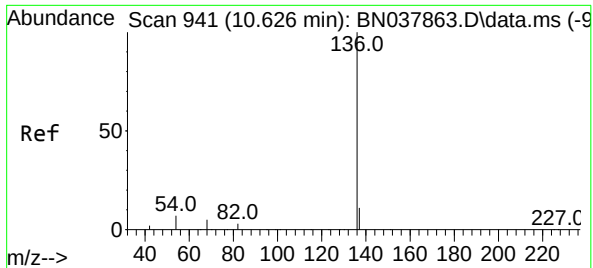
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.0	17.2	25.8
71	33.6	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.6	60.1	90.1
95	32.4	25.4	38.2

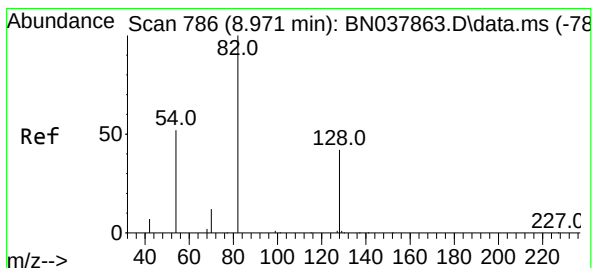
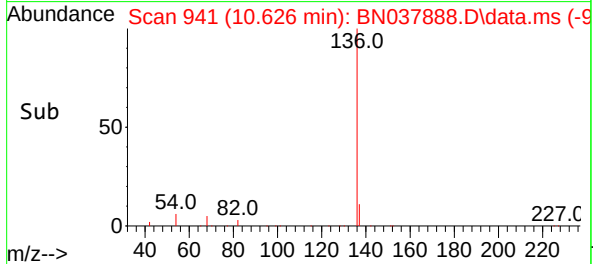
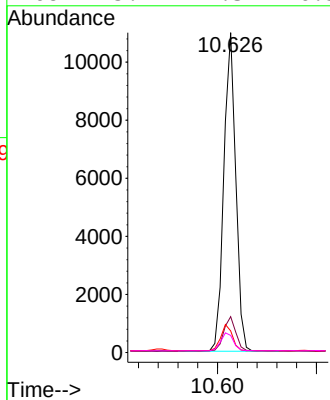
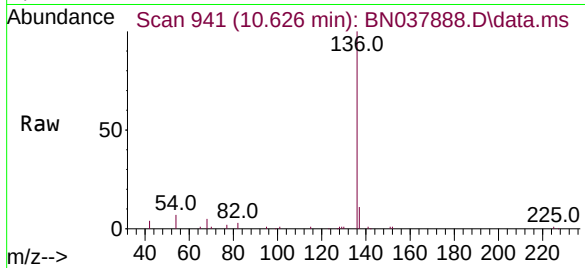




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

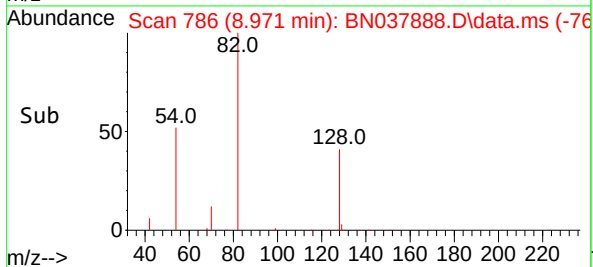
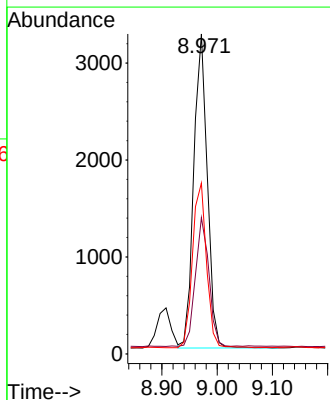
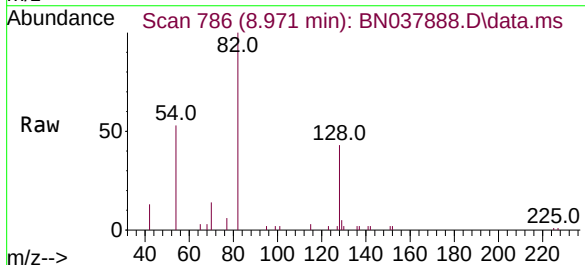
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

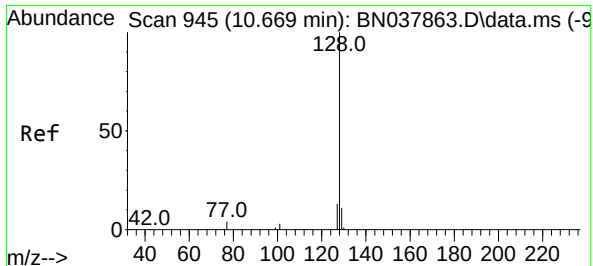
Tgt Ion:	136	Resp:	18512
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.8	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	82	Resp:	5500
Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.8	52.2
54	53.4	42.2	63.2

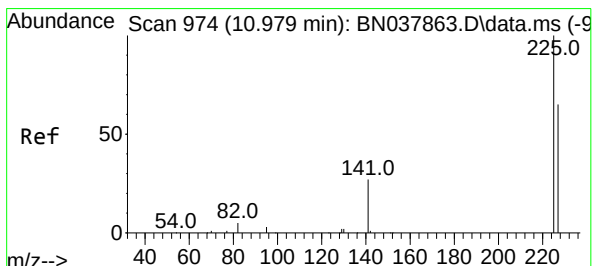
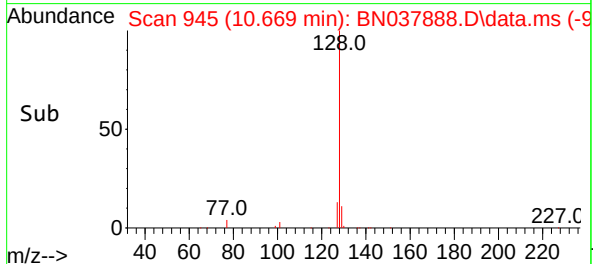
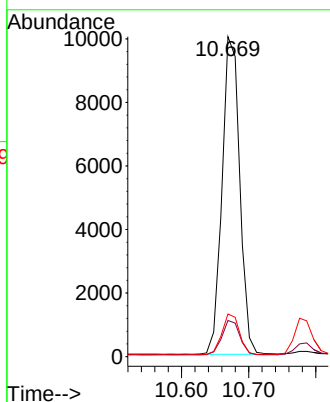
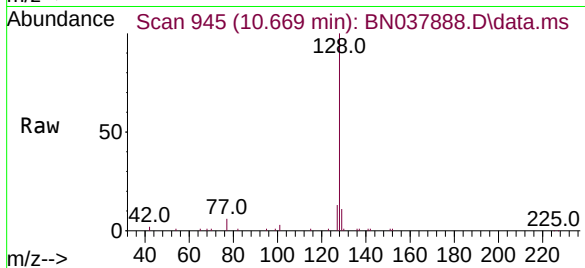




#9
Naphthalene
Concen: 0.357 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

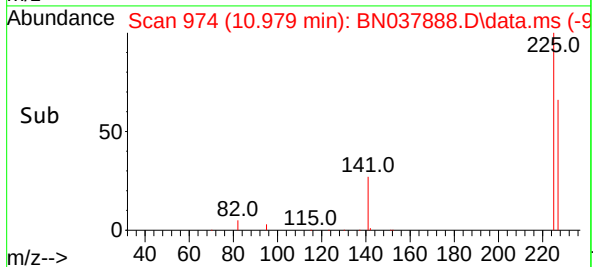
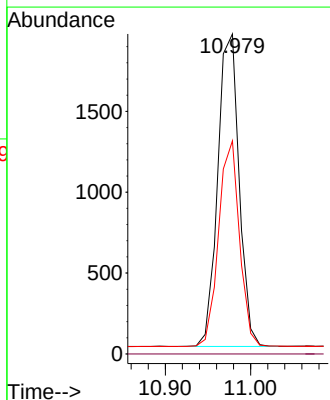
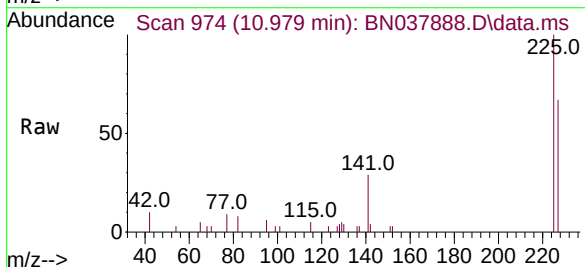
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

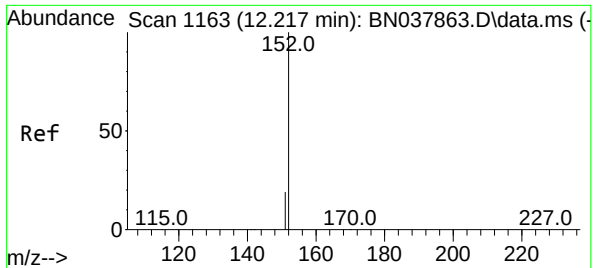
Tgt Ion:	128	Resp:	18228
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.3	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	225	Resp:	3382
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.4	77.2

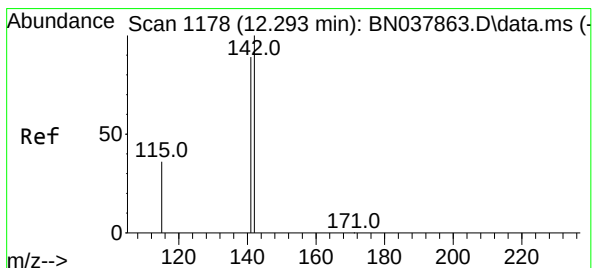
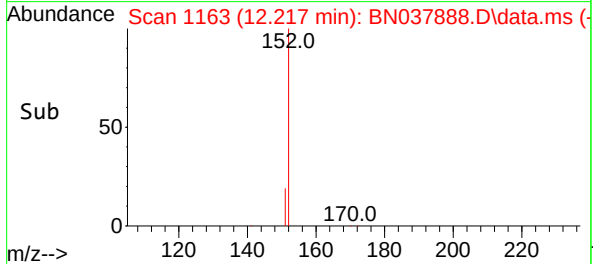
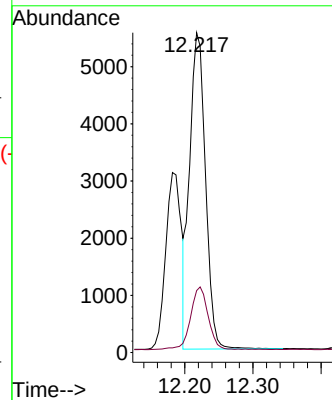
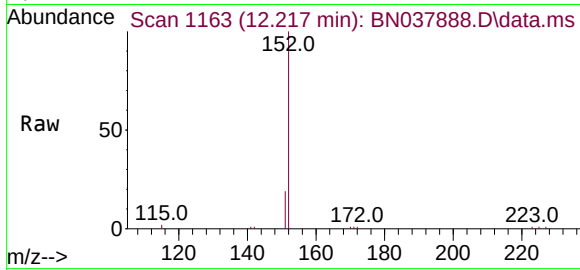




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

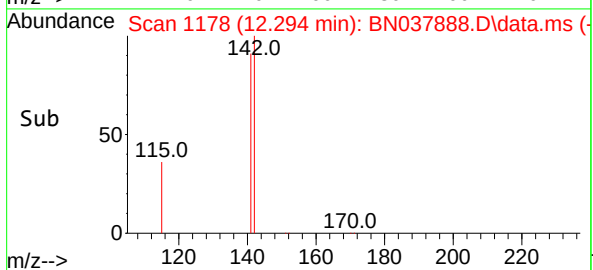
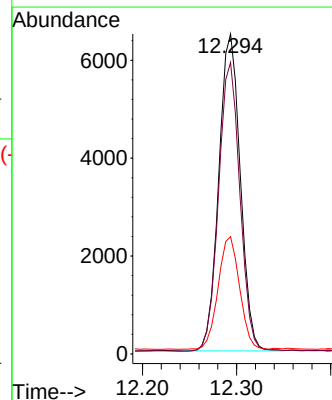
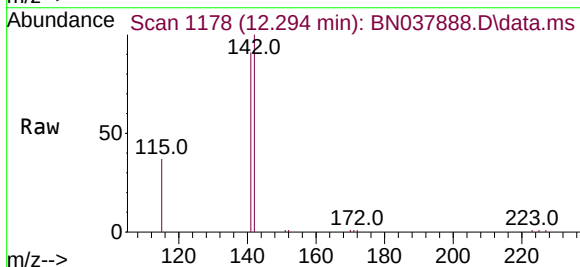
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

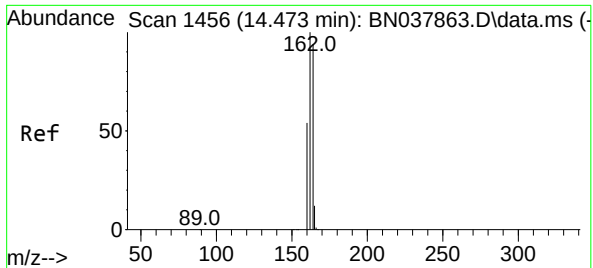
Tgt Ion:152 Resp: 8949
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:142 Resp: 10261
Ion Ratio Lower Upper
142 100
141 91.1 71.2 106.8
115 36.7 29.7 44.5

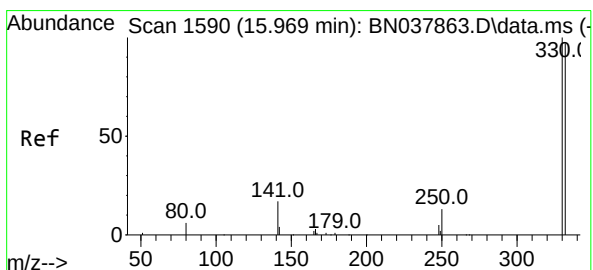
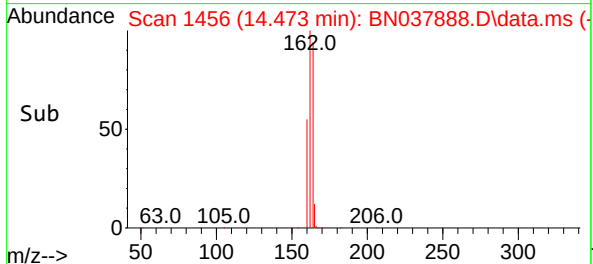
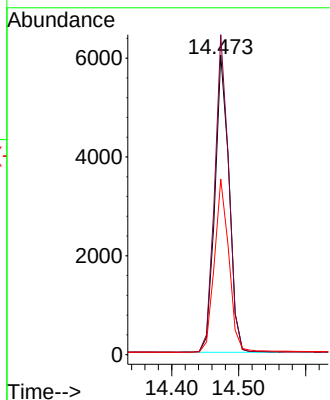
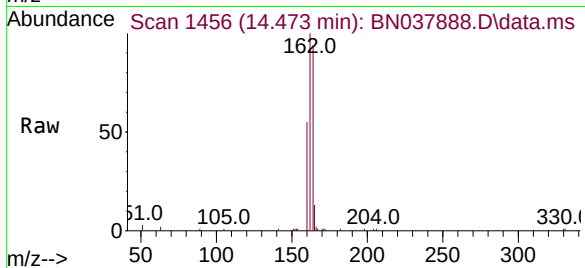




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

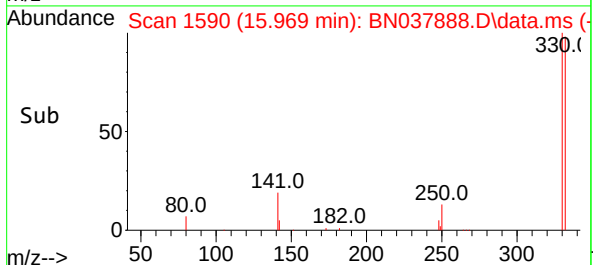
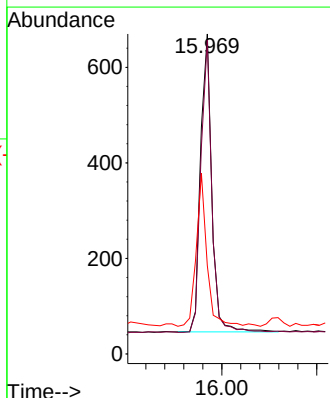
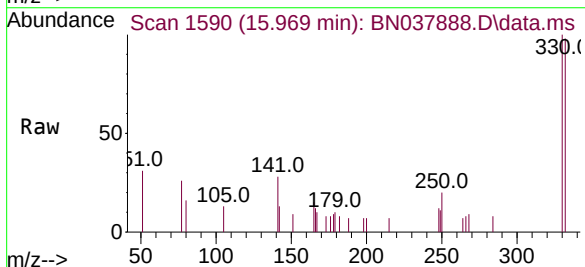
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

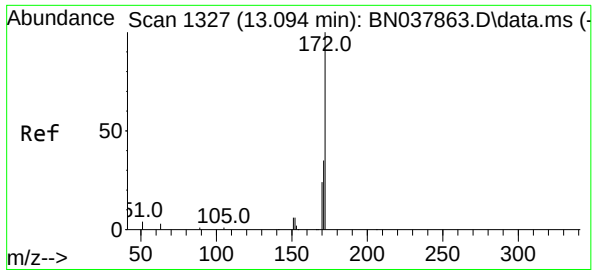
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.8	84.8	127.2
160	58.6	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.305 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.2	115.8
141	49.0	37.2	55.8

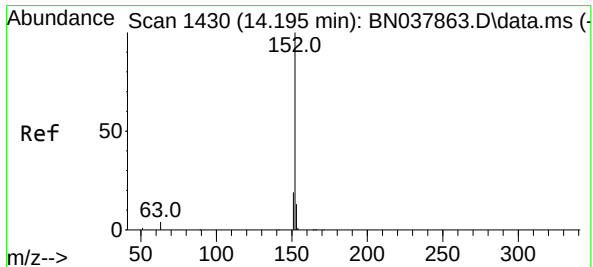
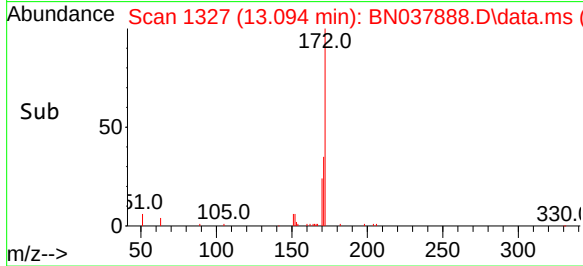
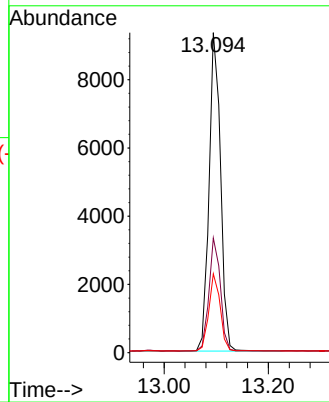
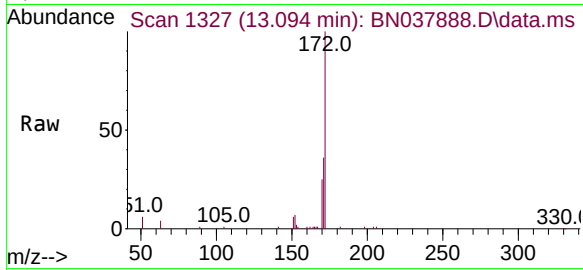




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

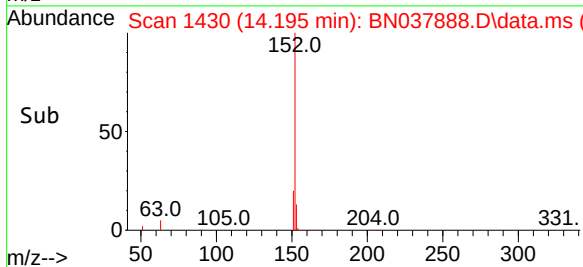
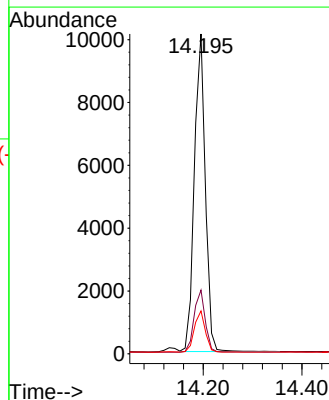
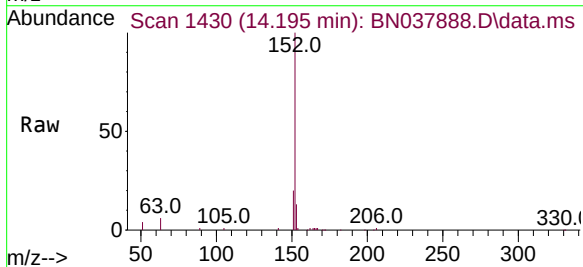
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

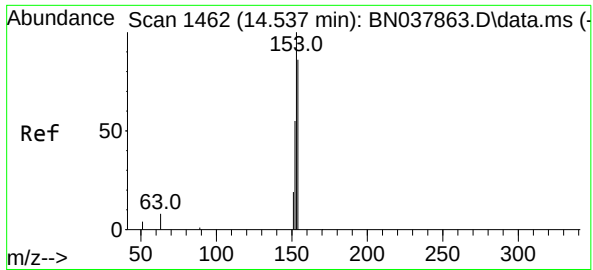
Tgt Ion:	172	Resp:	14311
Ion Ratio	Lower	Upper	
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	152	Resp:	15564
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	12.8	10.5	15.7

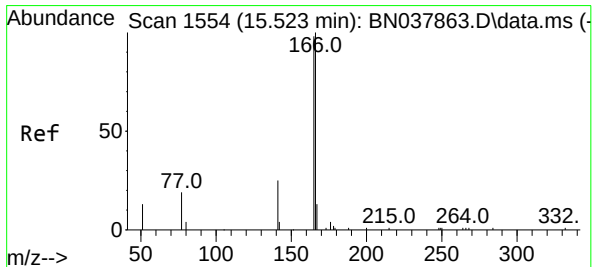
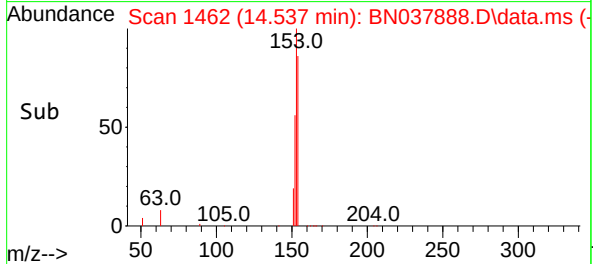
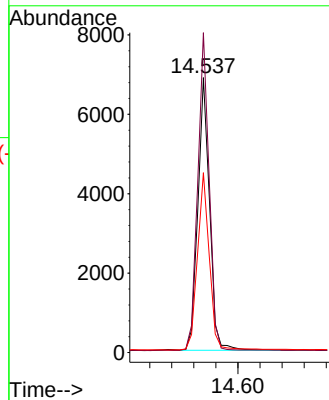
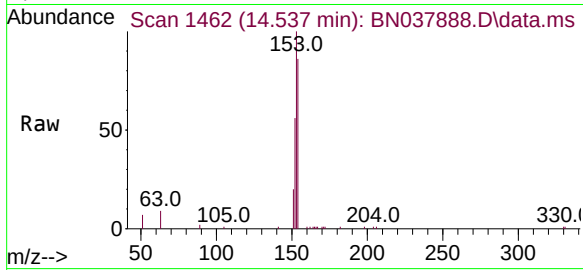




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

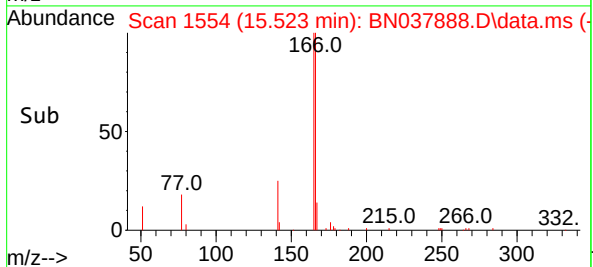
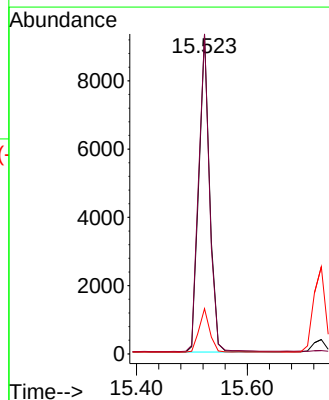
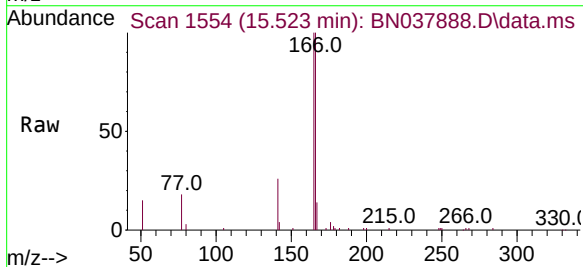
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

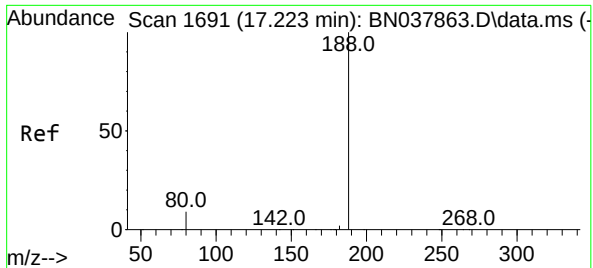
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.0	90.5	135.7
152	65.9	51.8	77.8



#18
Fluorene
Concen: 0.361 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.1	79.0	118.4
167	13.5	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: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

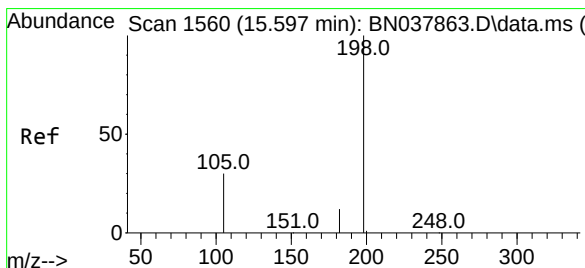
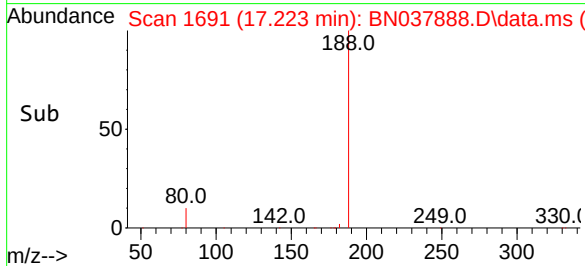
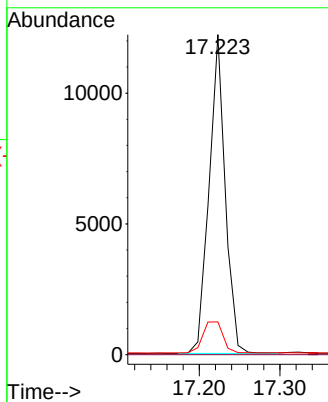
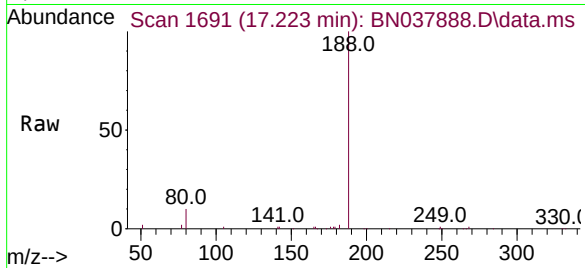
Tgt Ion:188 Resp: 16966

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

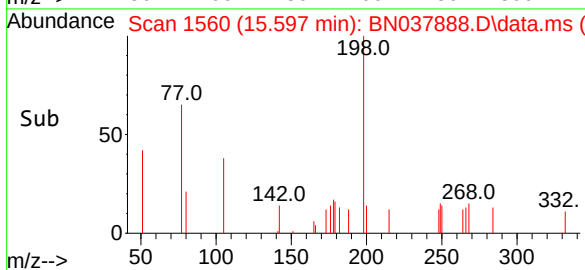
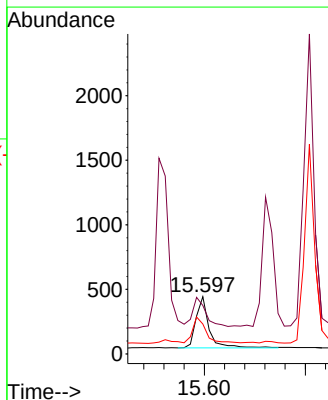
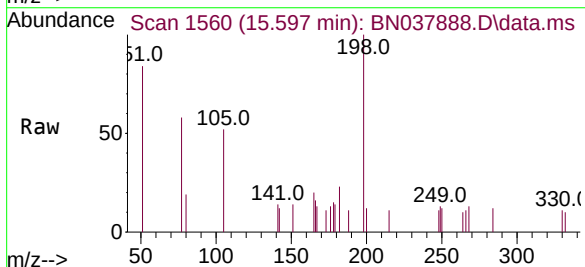
Tgt Ion:198 Resp: 708

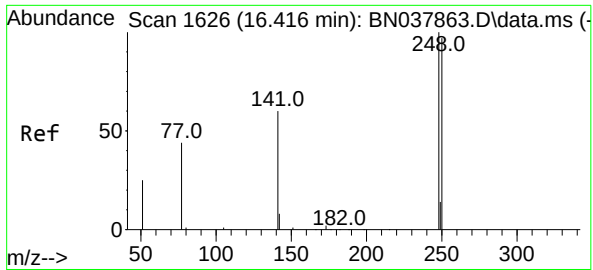
Ion Ratio Lower Upper

198 100

51 84.5 59.1 88.7

105 52.3 41.3 61.9

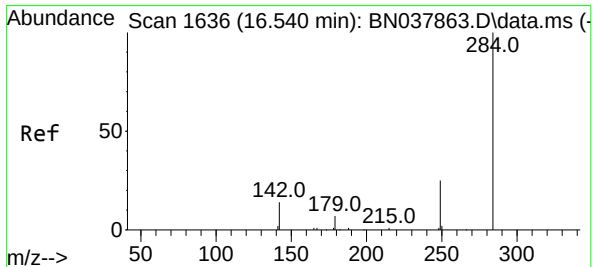
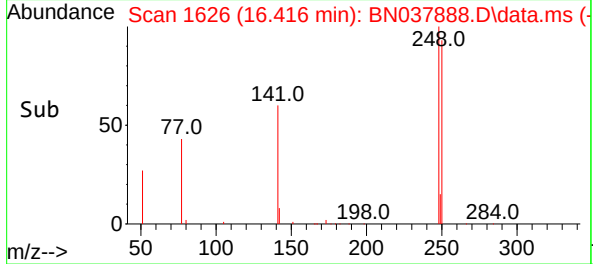
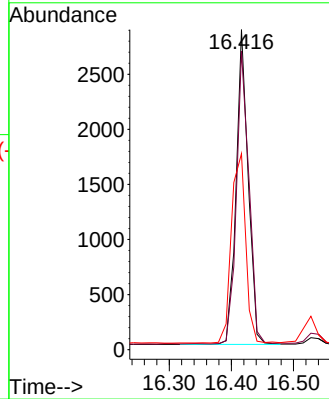
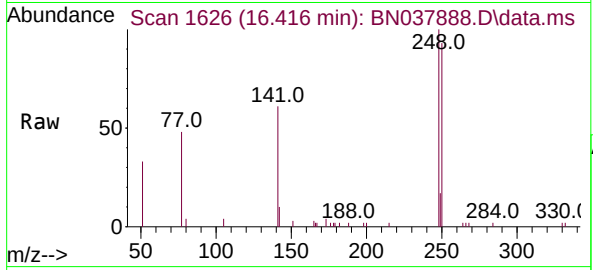




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

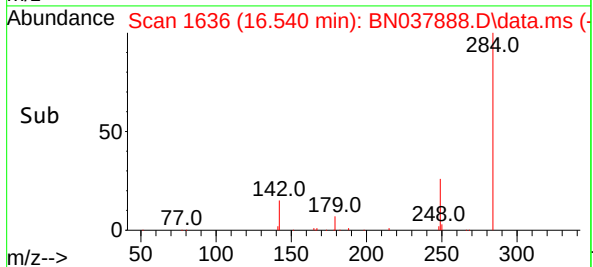
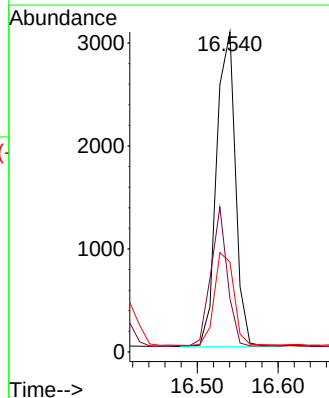
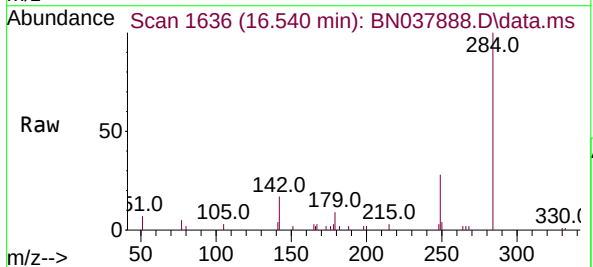
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

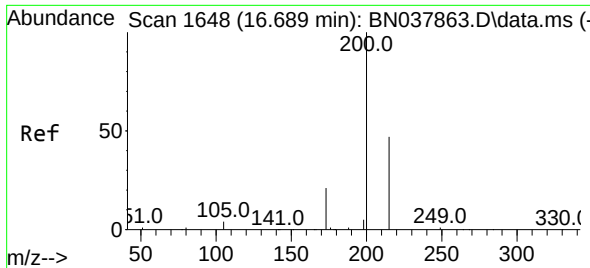
Tgt Ion:	248	Resp:	3842
Ion Ratio	Lower	Upper	
248	100		
250	93.2	77.6	116.4
141	61.3	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	284	Resp:	4957
Ion Ratio	Lower	Upper	
284	100		
142	38.9	30.9	46.3
249	30.6	23.9	35.9

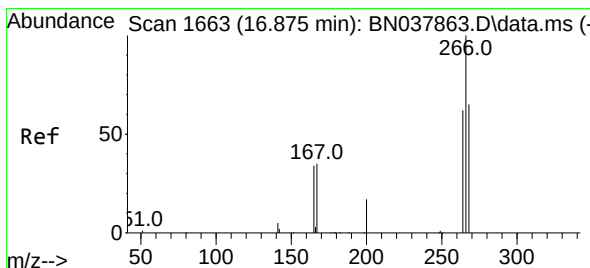
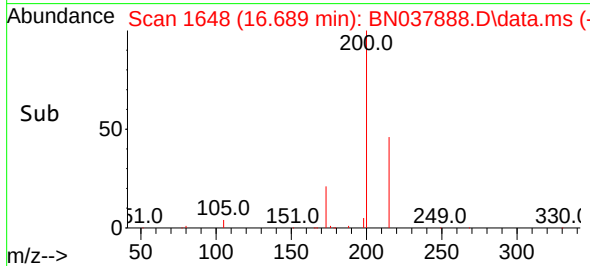
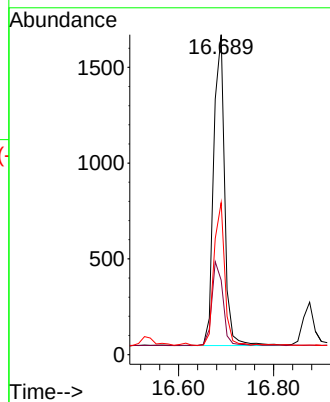
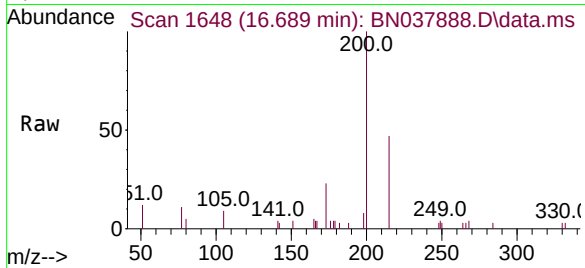




#23
Atrazine
Concen: 0.309 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

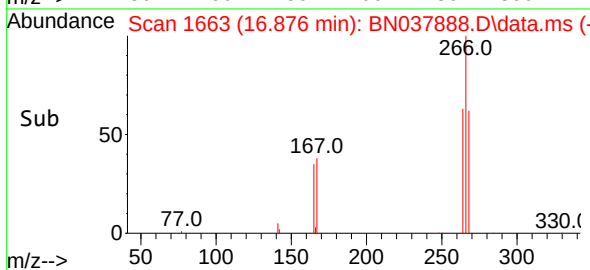
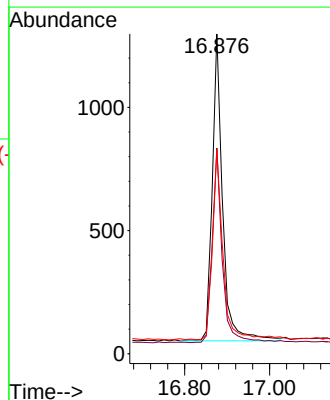
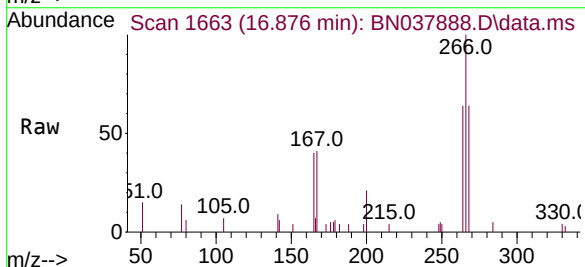
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

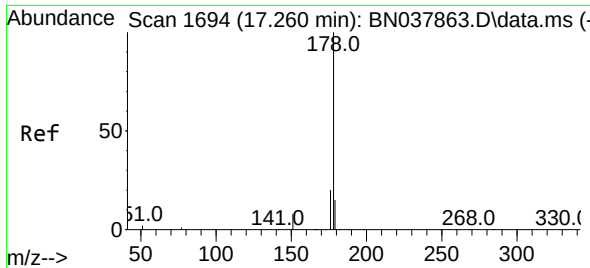
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.3	18.3	27.5
215	47.5	38.6	58.0



#24
Pentachlorophenol
Concen: 0.456 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.6	50.9	76.3
268	62.6	54.3	81.5

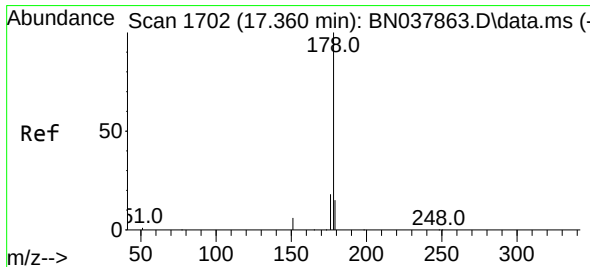
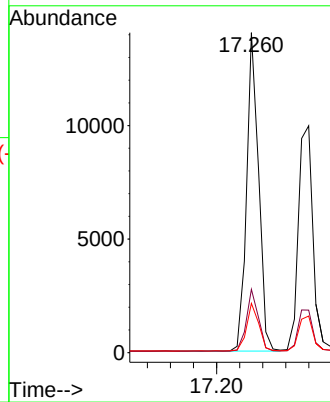
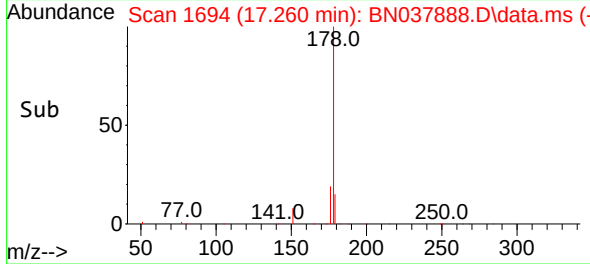
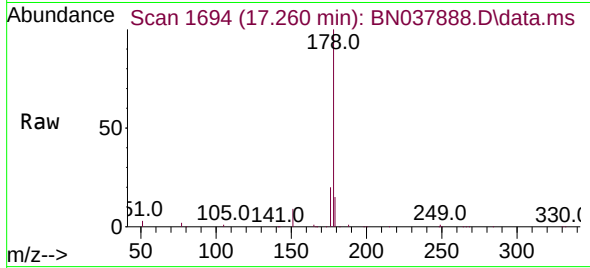




#25
Phenanthrene
Concen: 0.363 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

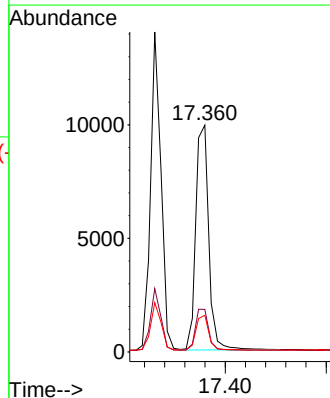
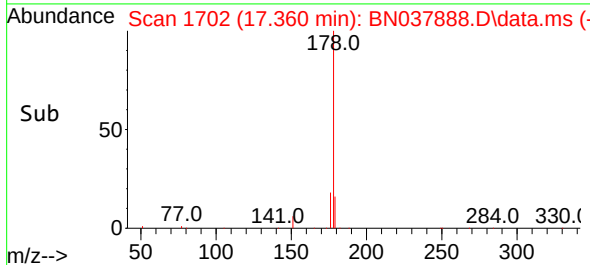
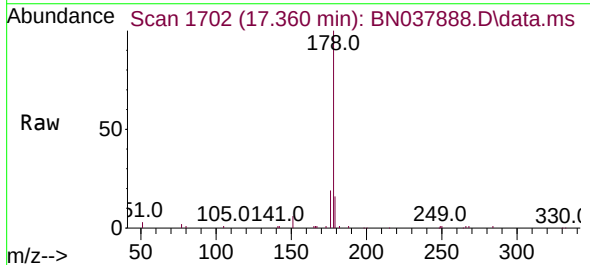
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

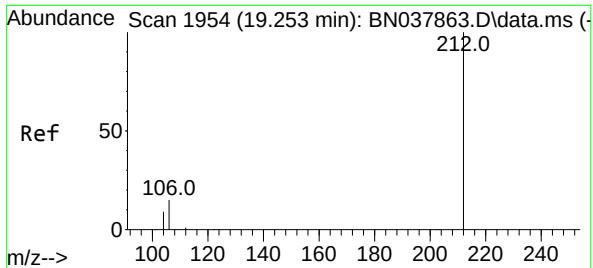
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.5	12.3	18.5



#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.324 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

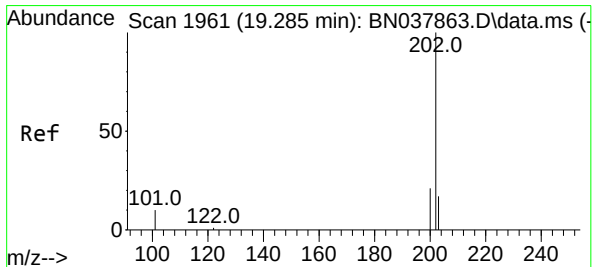
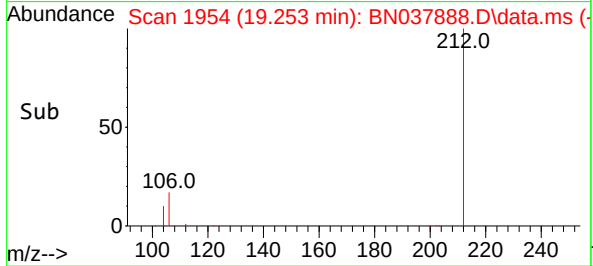
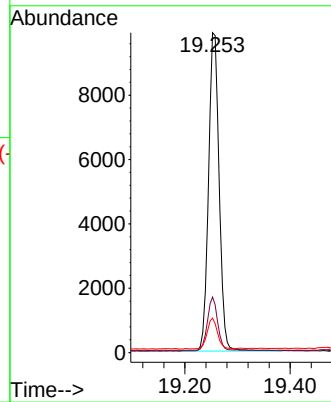
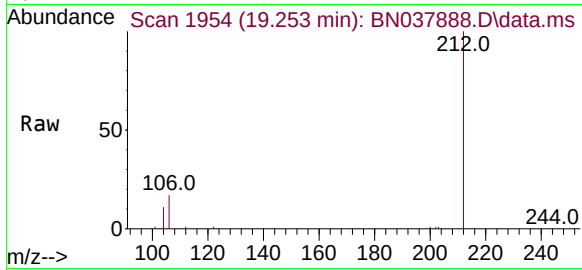
Instrument :

BNA_N

ClientSampleId :

PB169712BSD

Tgt Ion:	212	Resp:	13821
Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.4	7.4	11.0



#28

Fluoranthene

Concen: 0.323 ng

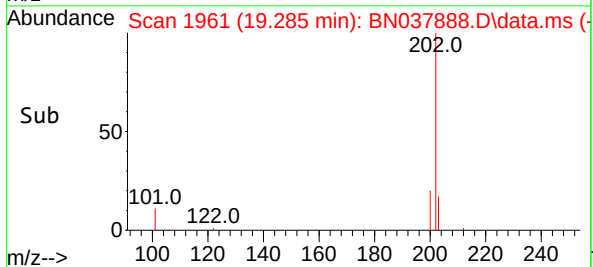
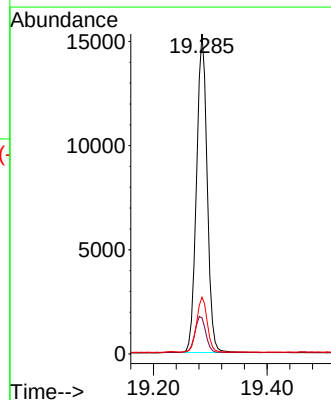
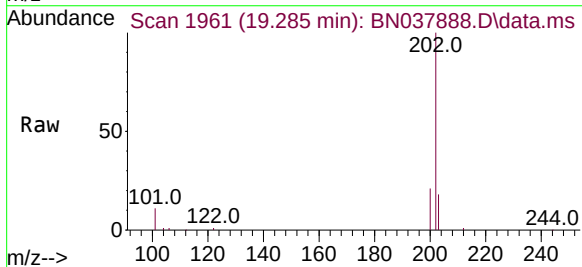
RT: 19.285 min Scan# 1961

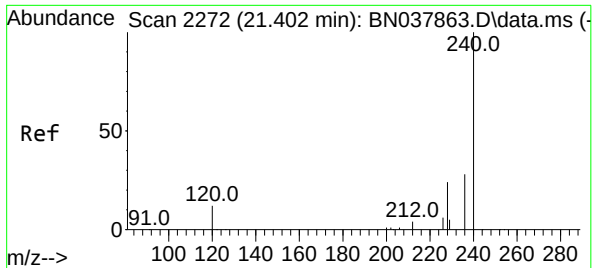
Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Tgt Ion:	202	Resp:	19835
Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.3	13.9
203	17.0	13.6	20.4

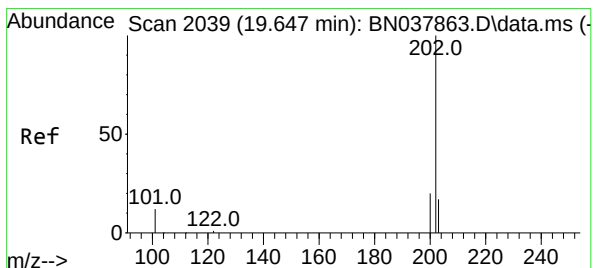
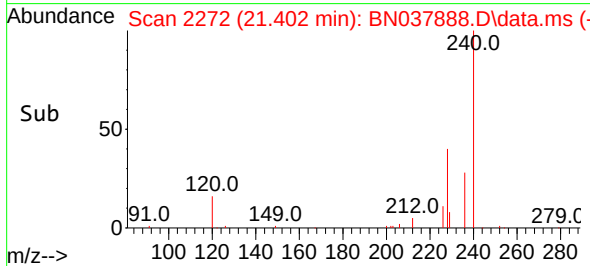
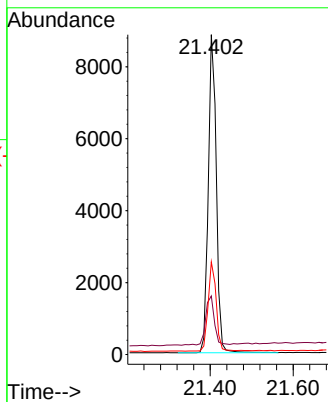
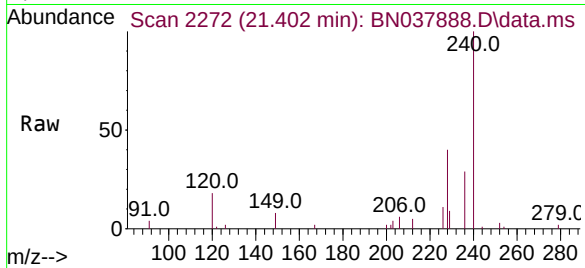




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

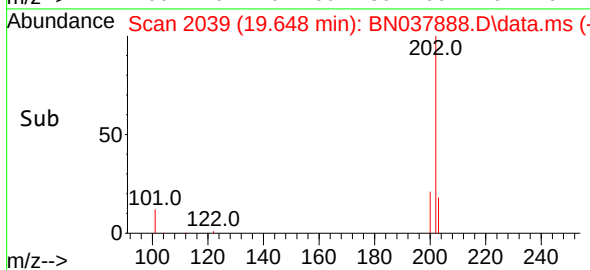
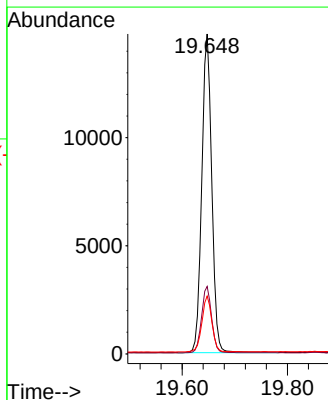
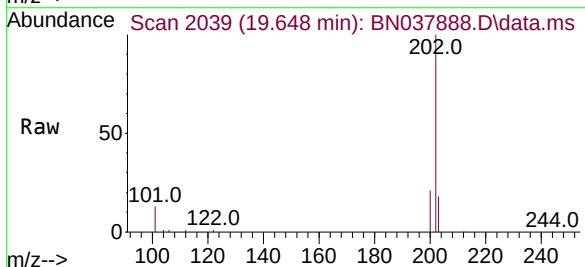
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

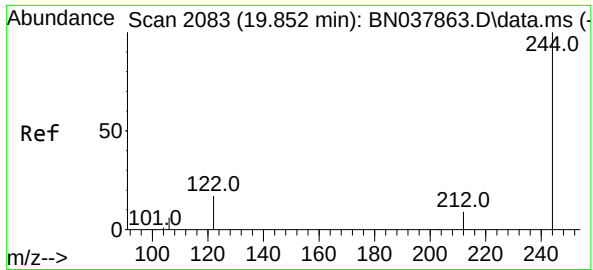
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	11.4	17.2#
236	29.0	23.0	34.6



#30
Pyrene
Concen: 0.415 ng
RT: 19.648 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

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

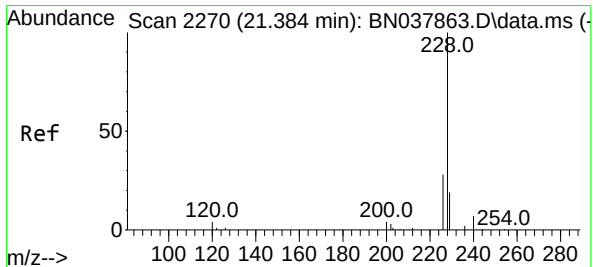
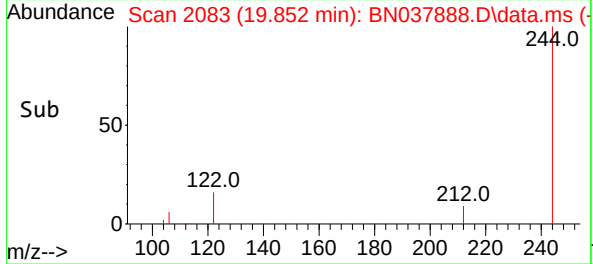
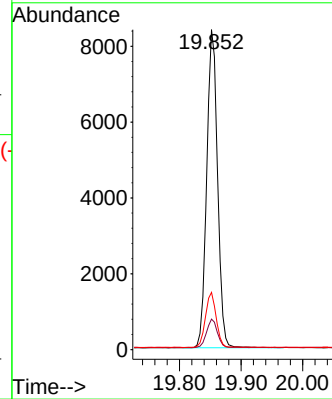
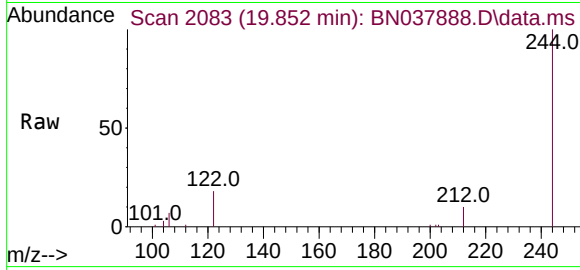




#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

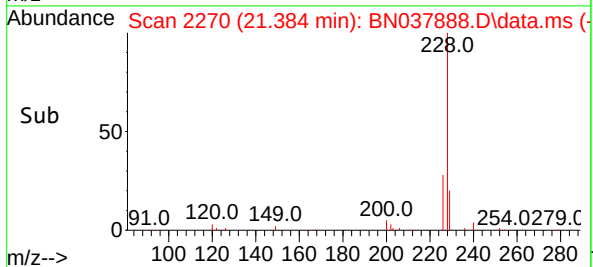
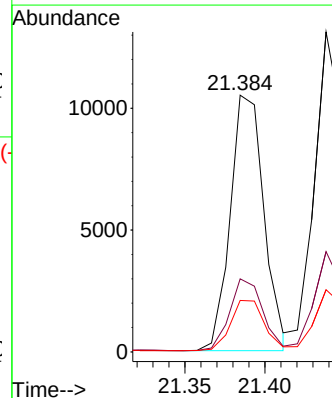
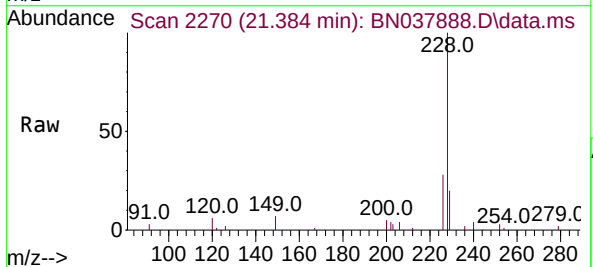
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

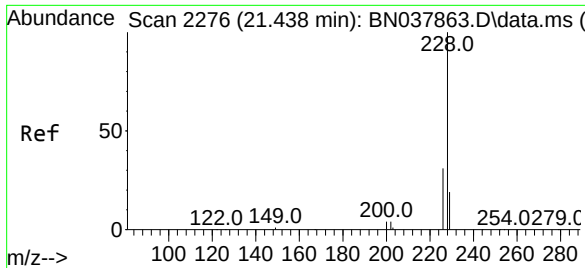
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.9	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.0	15.6	23.4

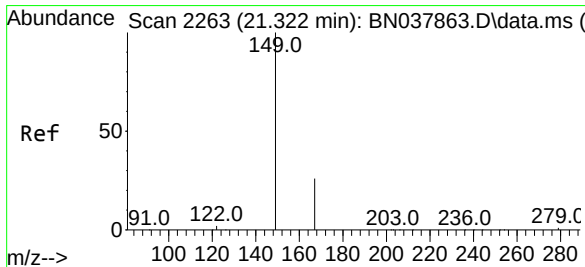
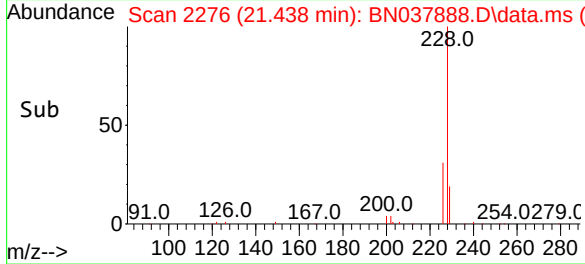
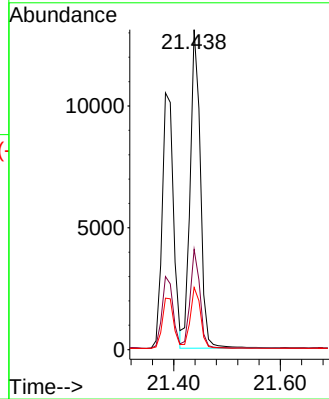
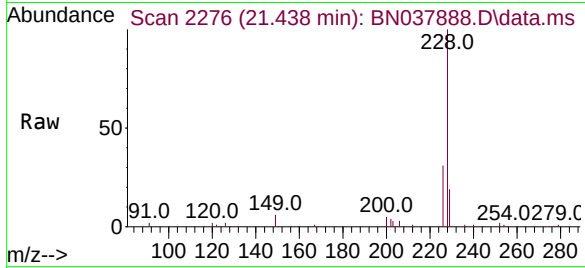




#33
Chrysene
Concen: 0.388 ng
RT: 21.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

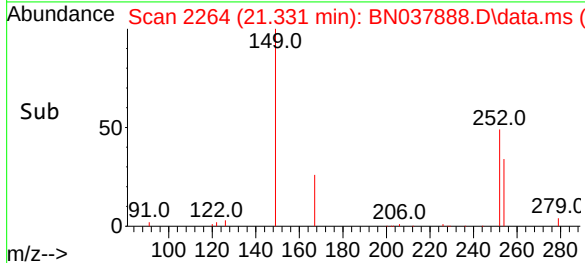
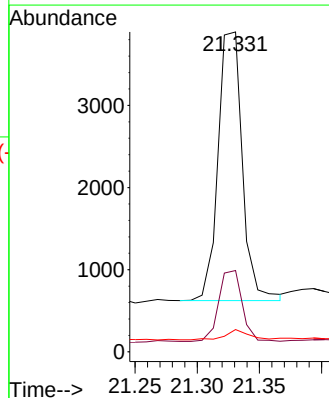
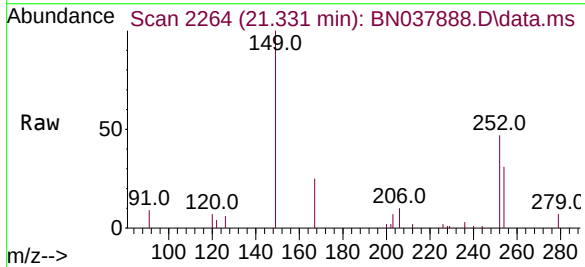
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

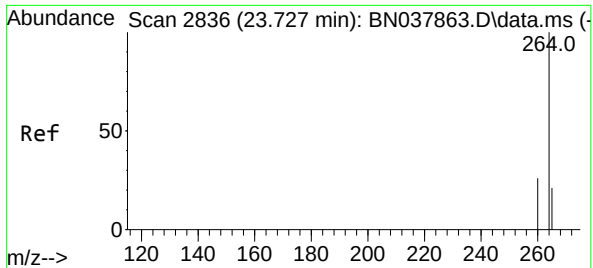
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.4	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.272 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

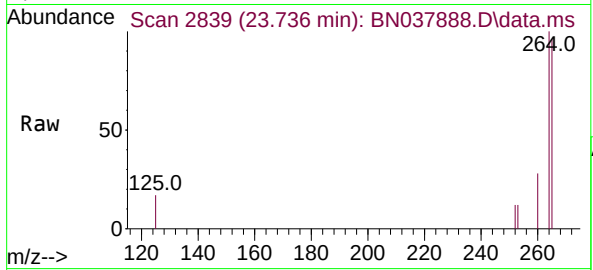
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.4	30.6
279	3.6	2.4	3.6#



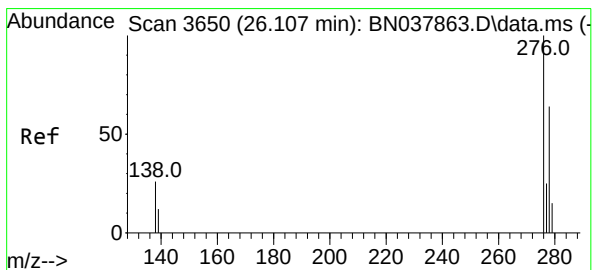
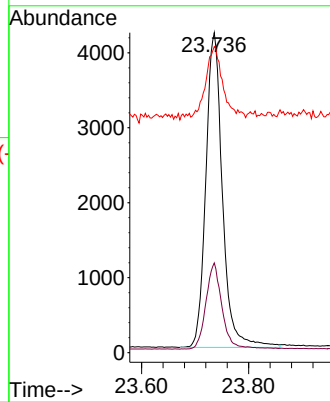
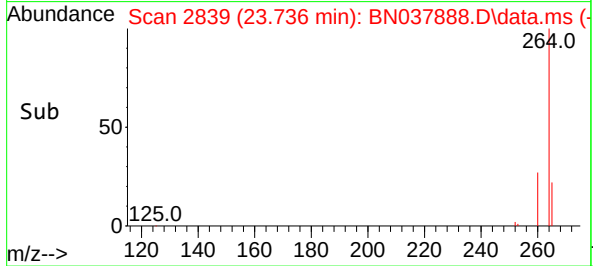


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

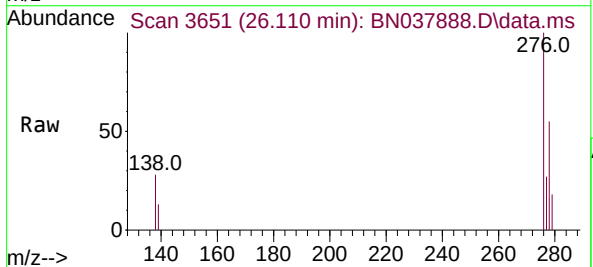
Instrument :
BNA_N
ClientSampleId :
PB169712BSD



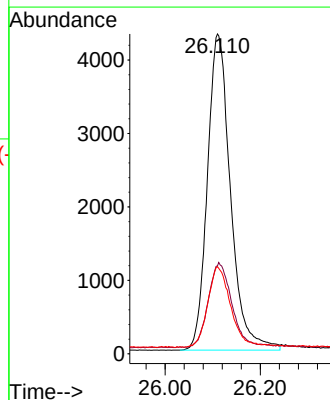
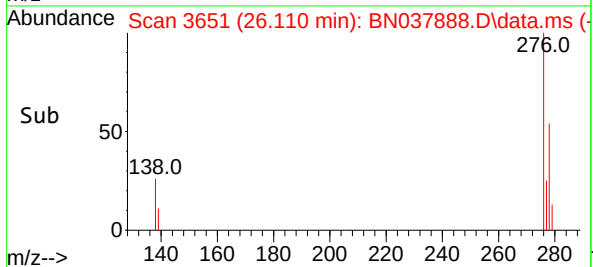
Tgt Ion:264 Resp: 9036
Ion Ratio Lower Upper
264 100
260 28.0 21.5 32.3
265 95.6 53.8 80.6#

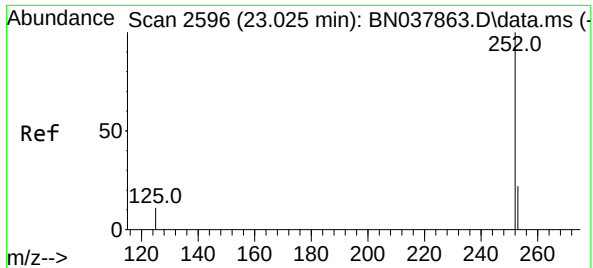


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34



Tgt Ion:276 Resp: 14519
Ion Ratio Lower Upper
276 100
138 26.9 21.4 32.0
277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

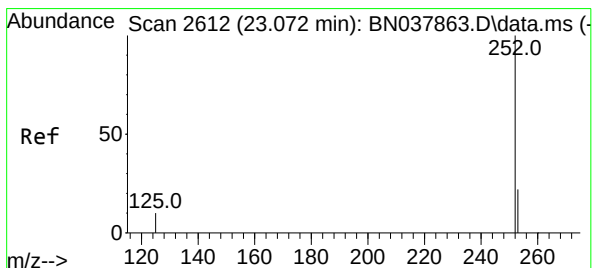
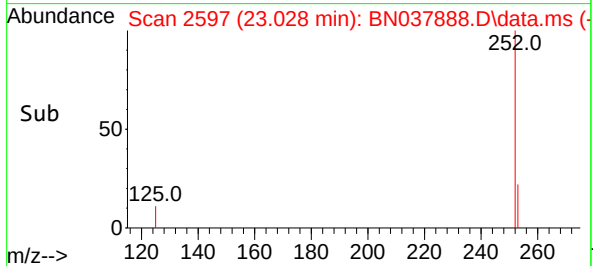
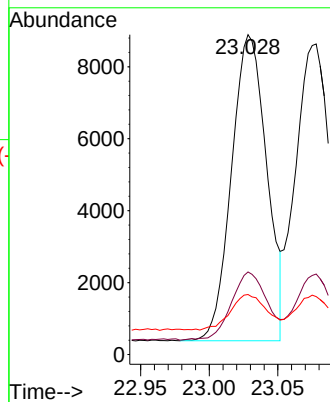
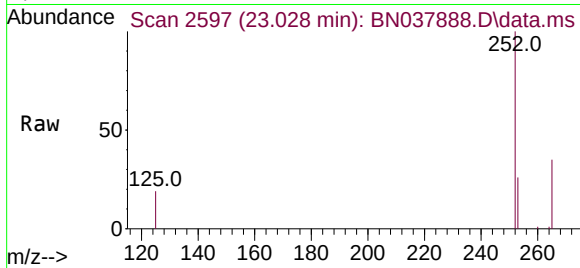
Tgt Ion:252 Resp: 15158

Ion Ratio Lower Upper

252 100

253 25.8 19.4 29.0

125 18.8 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

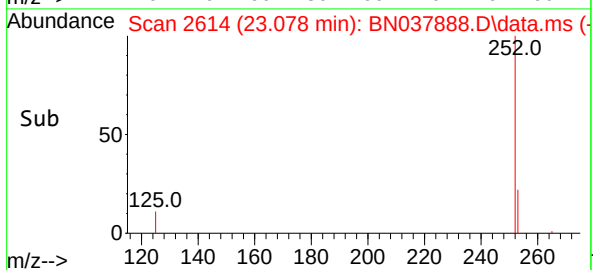
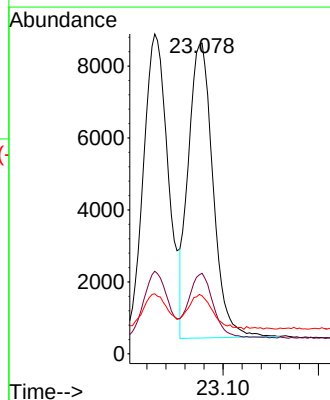
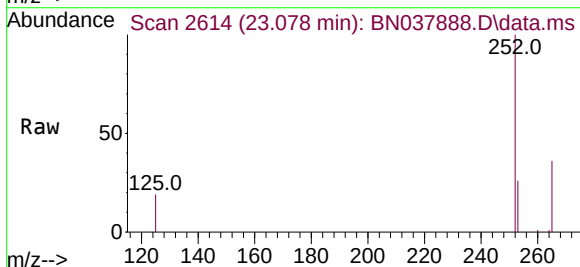
Tgt Ion:252 Resp: 14723

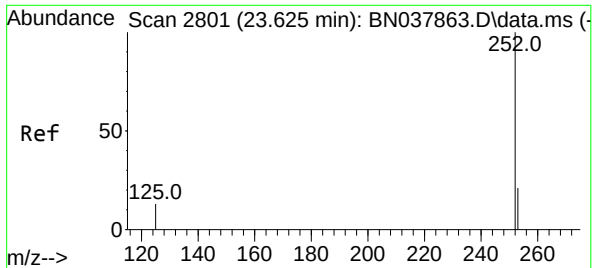
Ion Ratio Lower Upper

252 100

253 25.9 19.5 29.3

125 18.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

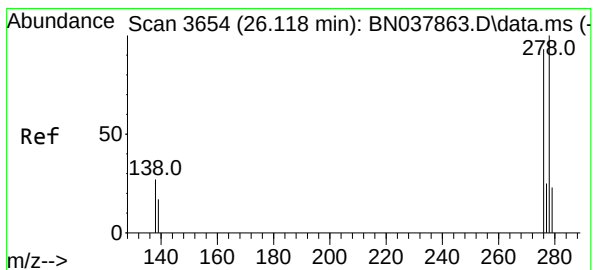
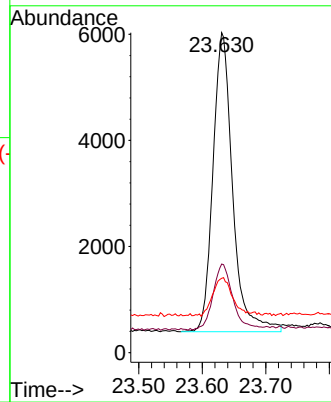
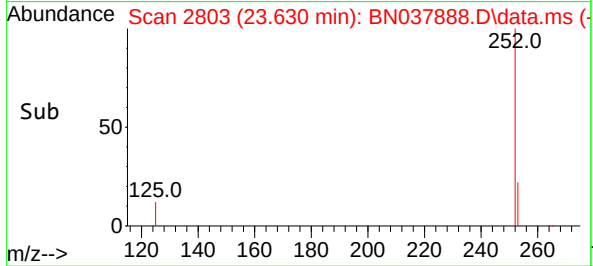
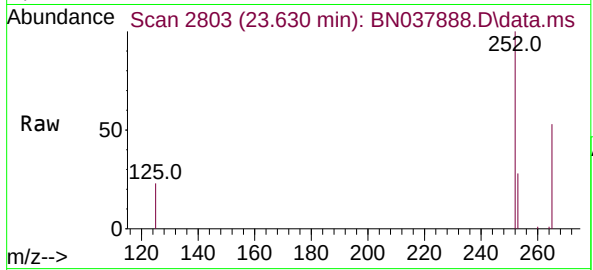
Instrument :

BNA_N

ClientSampleId :

PB169712BSD

Tgt Ion:	252	Resp:	12124
Ion Ratio	Lower	Upper	
252	100		
253	27.7	20.6	30.8
125	23.2	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.355 ng

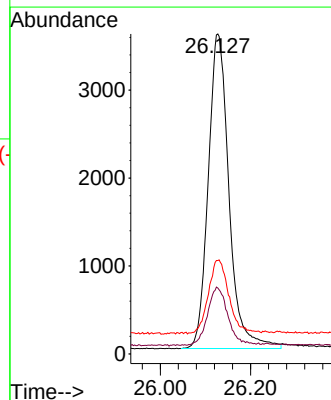
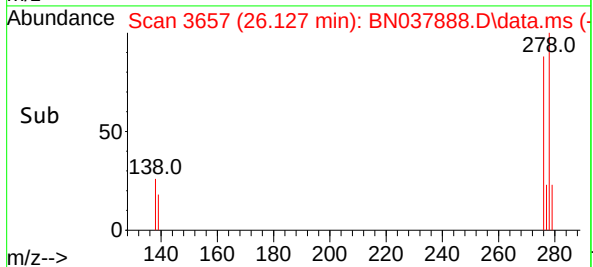
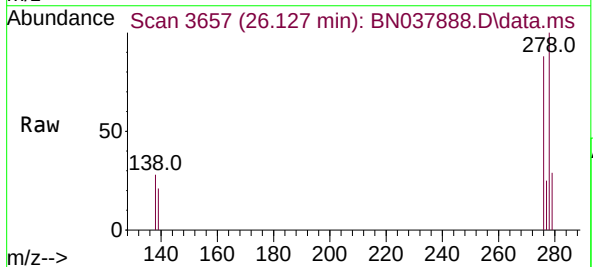
RT: 26.127 min Scan# 3657

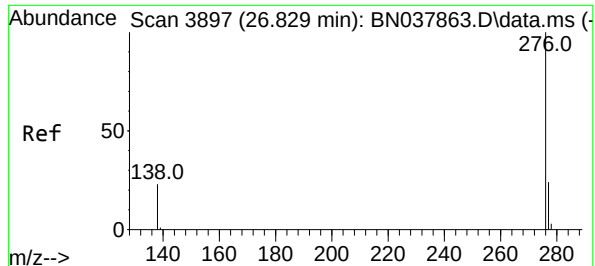
Delta R.T. 0.009 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Tgt Ion:	278	Resp:	11453
Ion Ratio	Lower	Upper	
278	100		
139	20.6	15.4	23.2
279	29.2	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.838 min Scan# 39

Delta R.T. 0.009 min

Lab File: BN037888.D

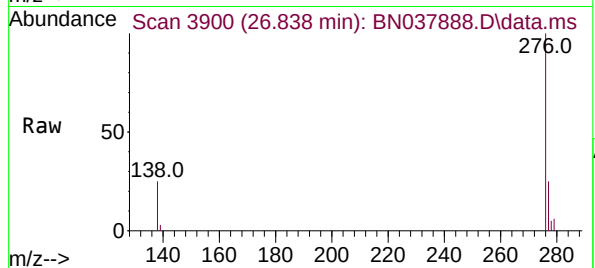
Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD



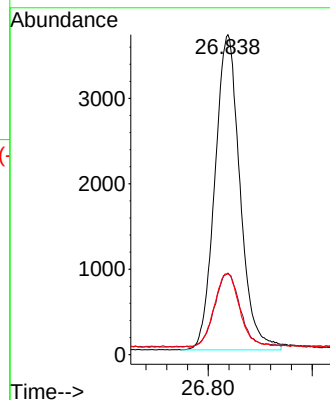
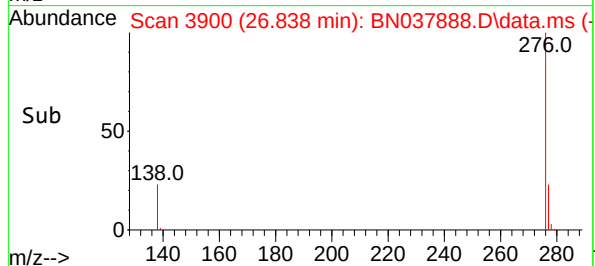
Tgt Ion:276 Resp: 12421

Ion Ratio Lower Upper

276 100

277 25.5 20.2 30.4

138 25.2 19.8 29.8



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS	SDG No.:	Q3097
Lab Sample ID:	Q3097-02MS	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
BN037772.D	1	09/15/25 12:00	09/18/25 11:48	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.72		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7220	7.833				
1146-65-2	Naphthalene-d8	19400	10.637				
15067-26-2	Acenaphthene-d10	8790	14.484				
1517-22-2	Phenanthrene-d10	14600	17.236				
1719-03-5	Chrysene-d12	11100	21.411				
1520-96-3	Perylene-d12	10700	23.744				

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\BN091725\
 Data File : BN037772.D
 Acq On : 18 Sep 2025 11:48
 Operator : RC/JU
 Sample : Q3097-02MS
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

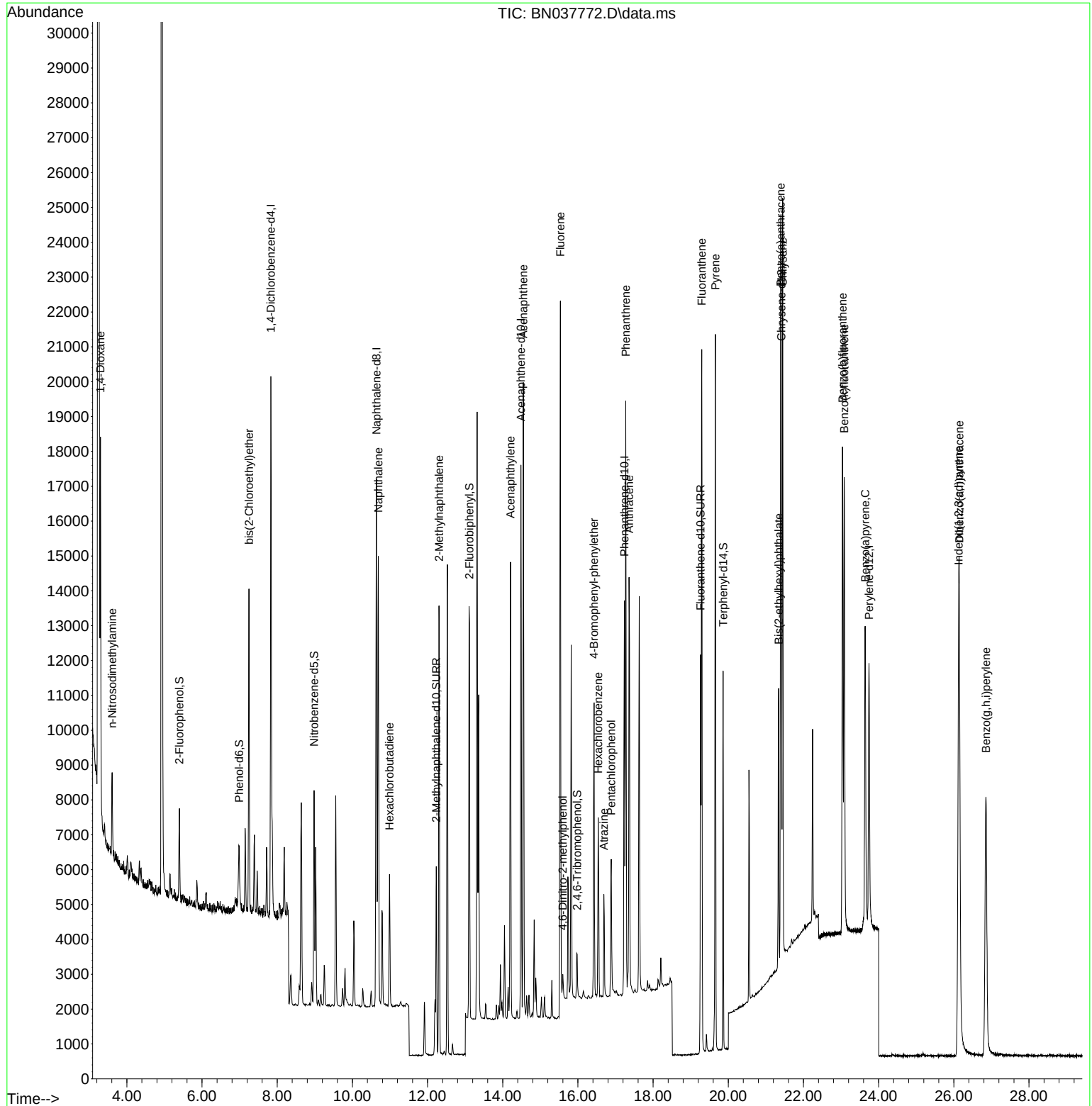
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7218	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19437	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8792	0.400	ng	-0.01
19) Phenanthrene-d10	17.236	188	14560	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11077	0.400	ng	# 0.00
35) Perylene-d12	23.744	264	10712	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2158	0.130	ng	0.00
5) Phenol-d6	6.988	99	1612	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4623	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.233	152	7201	0.280	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	880	0.384	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	11146	0.303	ng	0.00
27) Fluoranthene-d10	19.262	212	12673	0.347	ng	0.00
31) Terphenyl-d14	19.861	244	9630	0.428	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	5443	0.724	ng	95
3) n-Nitrosodimethylamine	3.608	42	1281	0.130	ng	87
6) bis(2-Chloroethyl)ether	7.248	93	6334	0.330	ng	99
9) Naphthalene	10.690	128	17098	0.322	ng	99
10) Hexachlorobutadiene	10.989	225	2914	0.303	ng	# 100
12) 2-Methylnaphthalene	12.304	142	9253	0.282	ng	100
16) Acenaphthylene	14.206	152	13679	0.339	ng	100
17) Acenaphthene	14.548	154	8588	0.315	ng	99
18) Fluorene	15.535	166	10257	0.311	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	483	0.358	ng	# 72
21) 4-Bromophenyl-phenylether	16.429	248	3439	0.362	ng	# 89
22) Hexachlorobenzene	16.540	284	4153	0.380	ng	97
23) Atrazine	16.689	200	2516	0.417	ng	# 91
24) Pentachlorophenol	16.888	266	2259	0.712	ng	97
25) Phenanthrene	17.273	178	17041	0.372	ng	100
26) Anthracene	17.360	178	14357	0.354	ng	100
28) Fluoranthene	19.294	202	18098	0.360	ng	99
30) Pyrene	19.657	202	18207	0.420	ng	100
32) Benzo(a)anthracene	21.393	228	16075	0.416	ng	100
33) Chrysene	21.447	228	17366	0.419	ng	99
34) Bis(2-ethylhexyl)phtha...	21.340	149	5730	0.500	ng	98
36) Indeno(1,2,3-cd)pyrene	26.127	276	20796	0.462	ng	99
37) Benzo(b)fluoranthene	23.037	252	18047	0.428	ng	97
38) Benzo(k)fluoranthene	23.084	252	17770	0.413	ng	97
39) Benzo(a)pyrene	23.642	252	14195	0.420	ng	97
40) Dibenzo(a,h)anthracene	26.148	278	16460	0.458	ng	98
41) Benzo(g,h,i)perylene	26.855	276	17542	0.435	ng	98

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

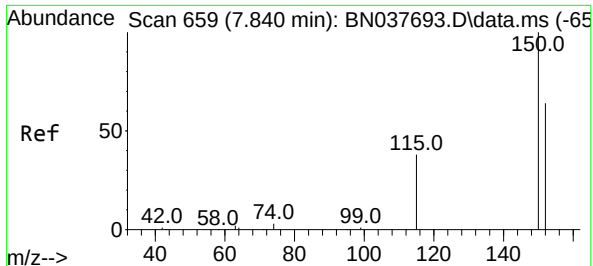
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Acq On : 18 Sep 2025 11:48
Operator : RC/JU
Sample : Q3097-02MS
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 18 12:16:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration

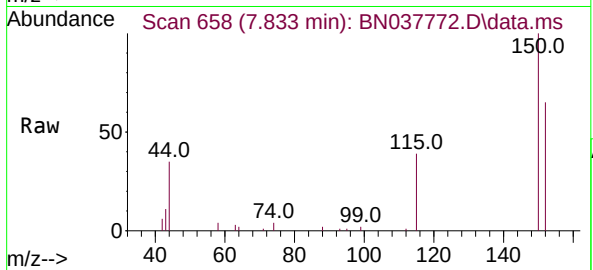


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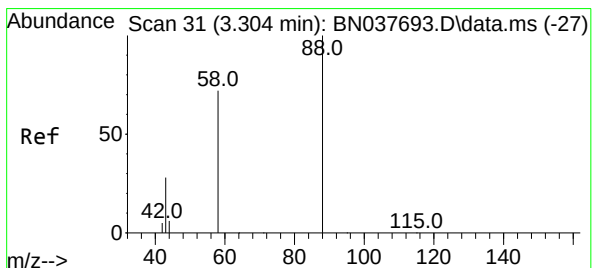
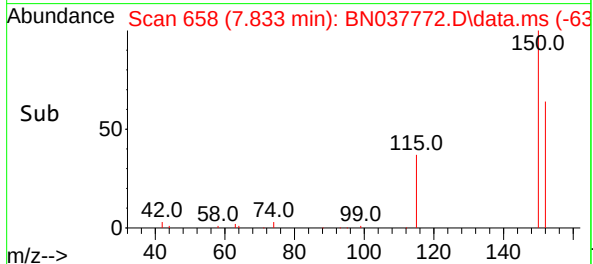
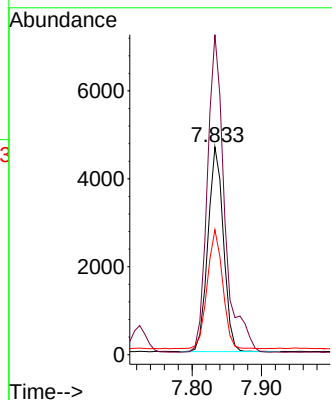


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

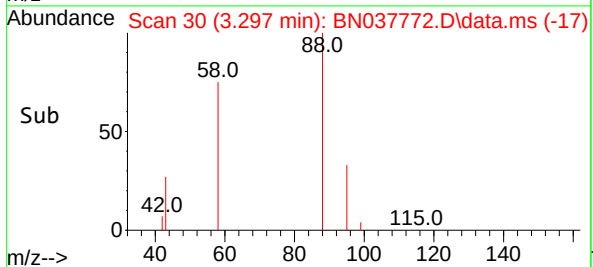
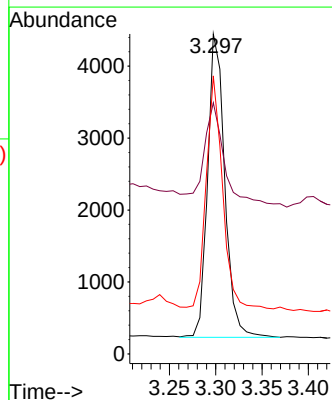
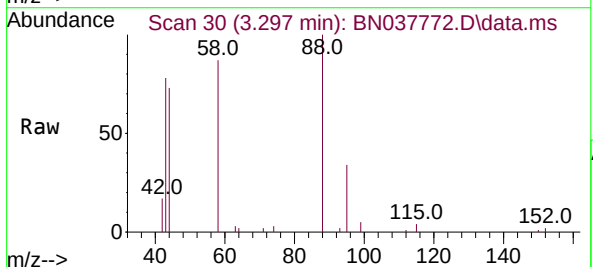


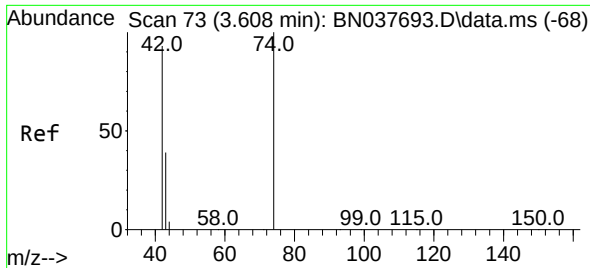
Tgt Ion: 152 Resp: 7218
Ion Ratio Lower Upper
152 100
150 154.1 124.5 186.7
115 60.1 49.2 73.8



#2
1,4-Dioxane
Concen: 0.724 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 88 Resp: 5443
Ion Ratio Lower Upper
88 100
43 37.1 26.8 40.2
58 73.0 61.9 92.9

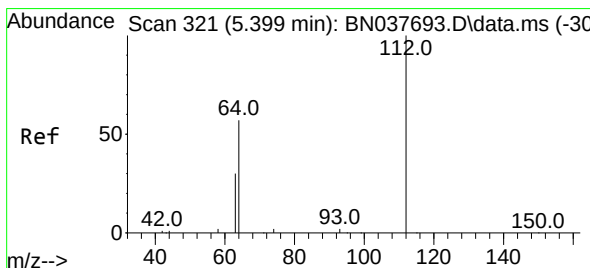
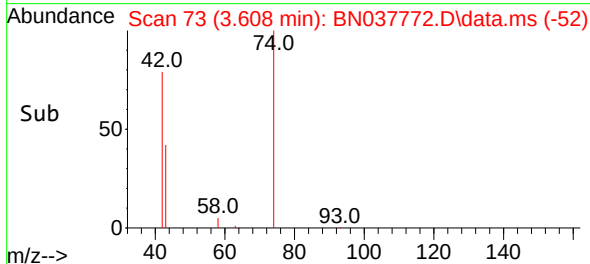
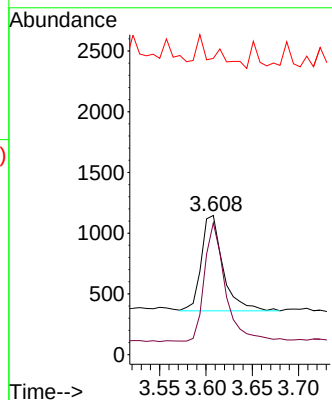
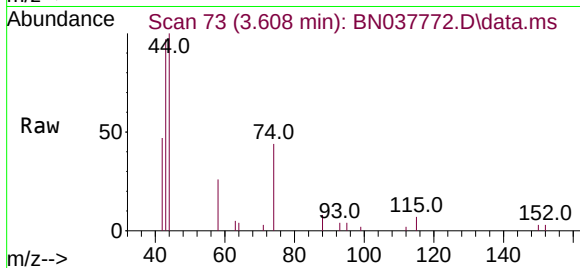




#3
n-Nitrosodimethylamine
Concen: 0.130 ng
RT: 3.608 min Scan# 73
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

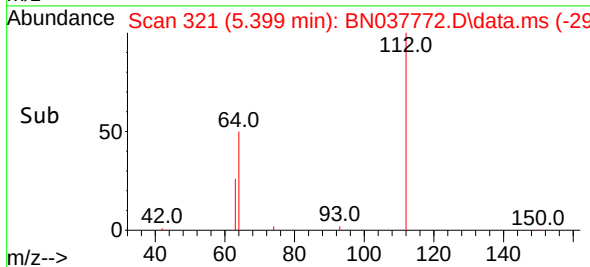
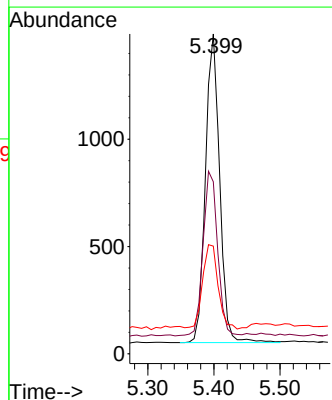
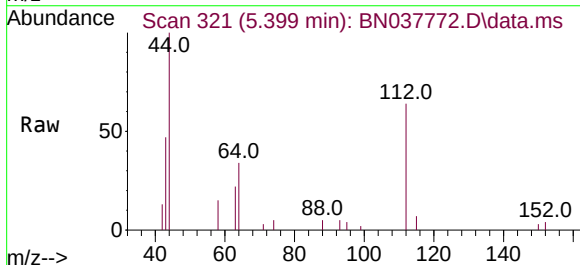
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

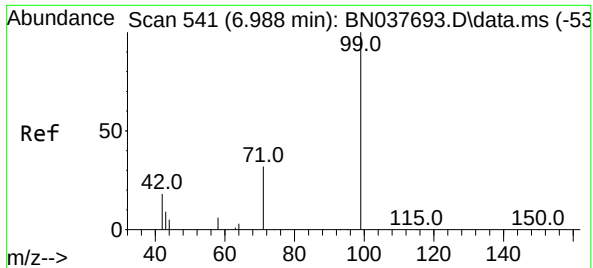
Tgt Ion:	42	Resp:	1281
Ion	Ratio	Lower	Upper
42	100		
74	121.5	86.0	129.0
44	11.9	8.4	12.6



#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:	112	Resp:	2158
Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.9	67.3
63	29.7	24.7	37.1

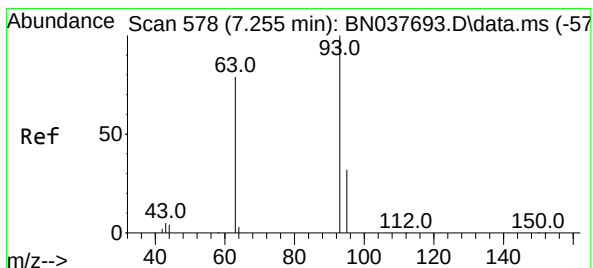
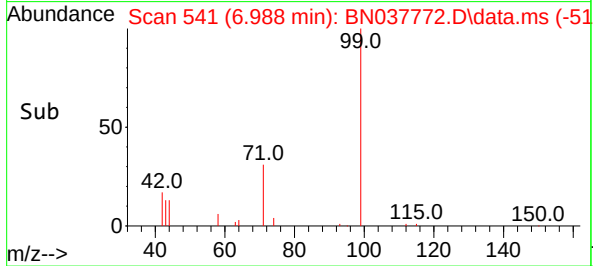
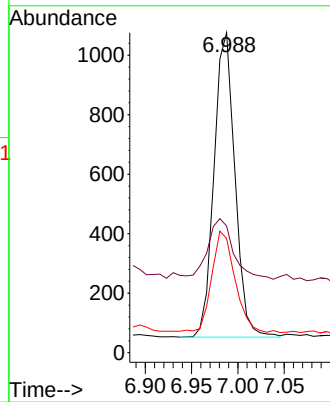
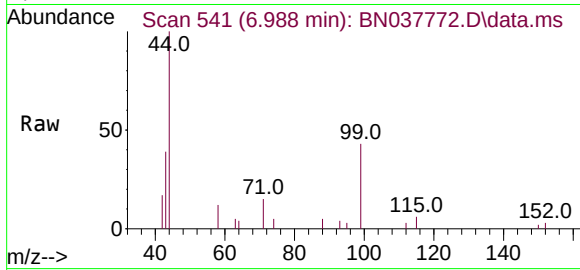




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

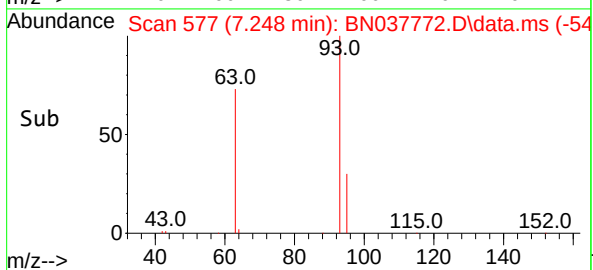
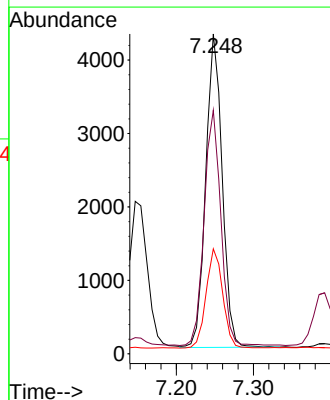
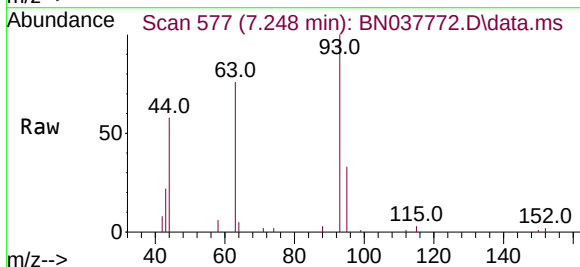
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

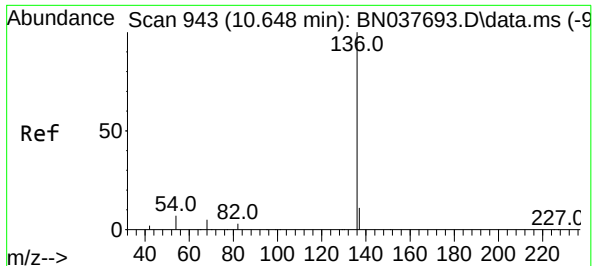
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.2	16.6	24.8
71	36.7	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.1	60.6	90.8
95	32.0	26.0	39.0

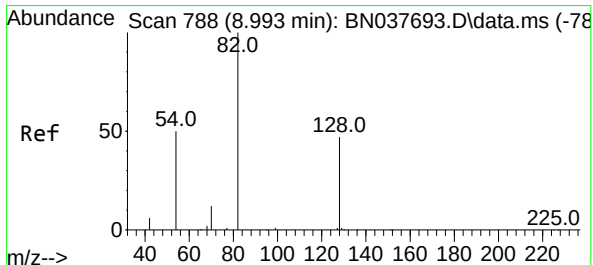
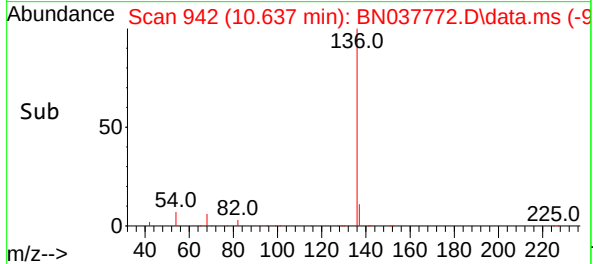
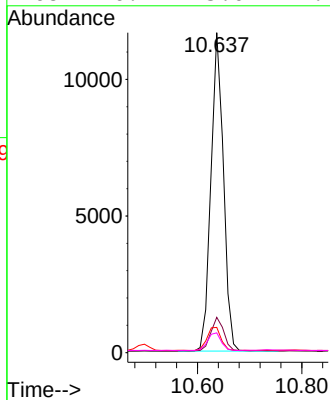
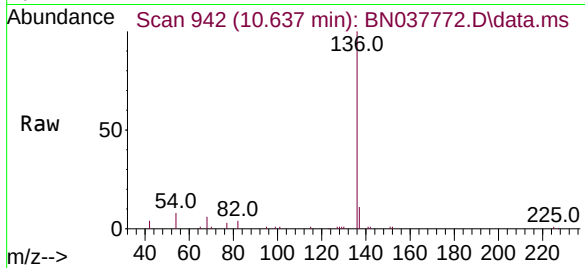




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

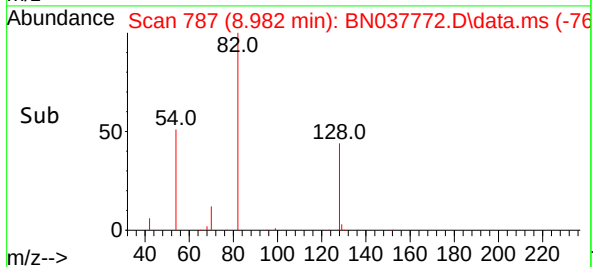
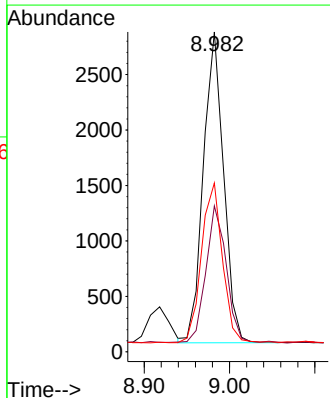
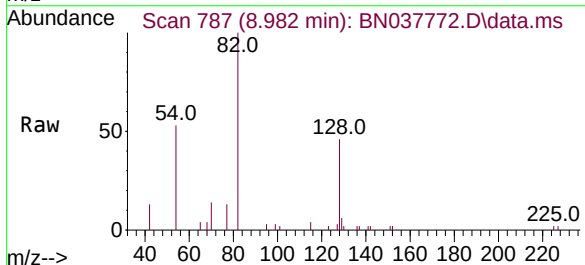
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

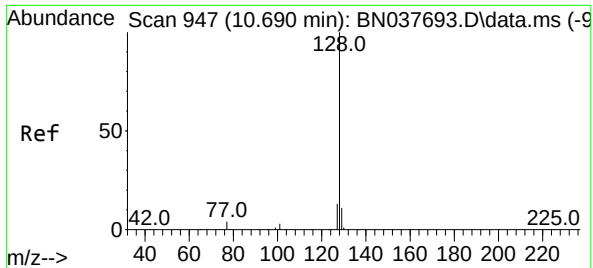
Tgt Ion:136	Resp:	19437
Ion Ratio	Lower	Upper
136	100	
137	11.0	9.1 13.7
54	7.9	6.3 9.5
68	6.2	5.0 7.4



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion: 82	Resp:	4623
Ion Ratio	Lower	Upper
82	100	
128	45.6	38.3 57.5
54	52.8	41.4 62.2

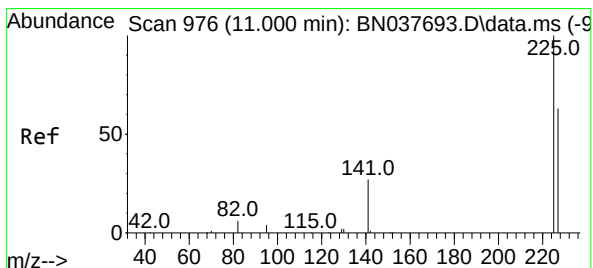
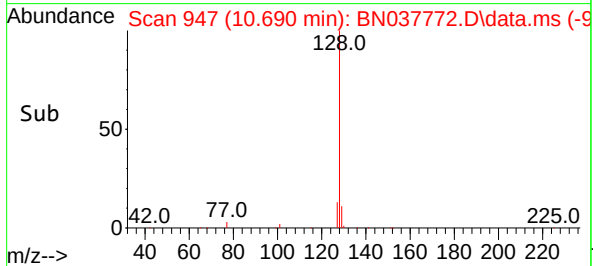
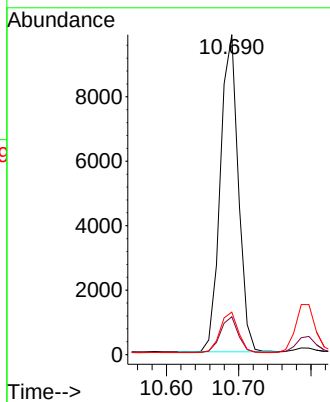
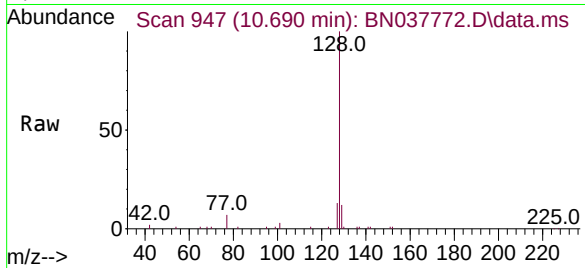




#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

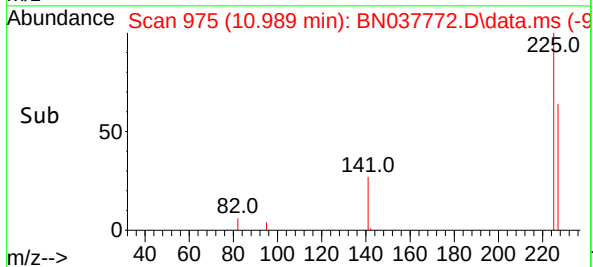
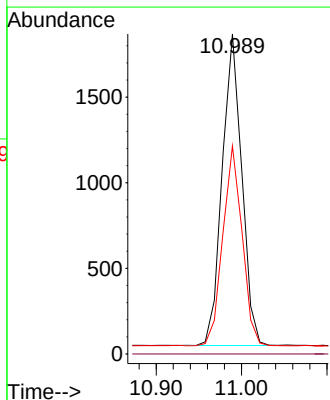
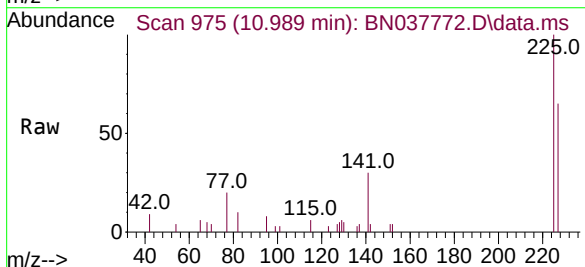
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

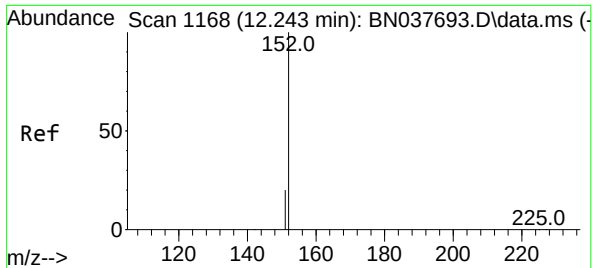
Tgt Ion:	128	Resp:	17098
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.1	13.7
127	13.3	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:	225	Resp:	2914
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.3	50.9	76.3

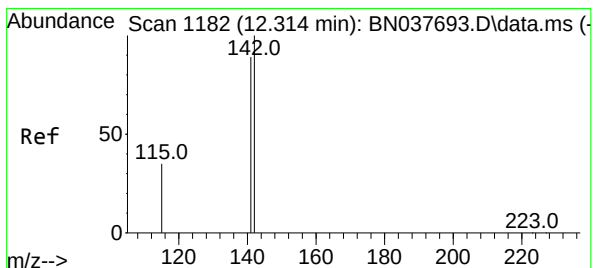
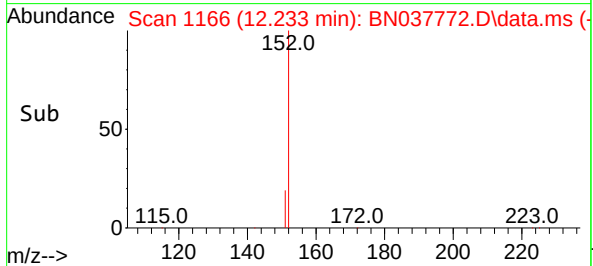
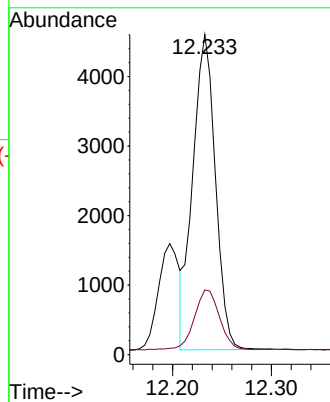
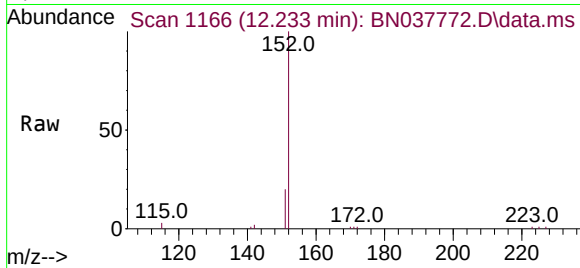




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

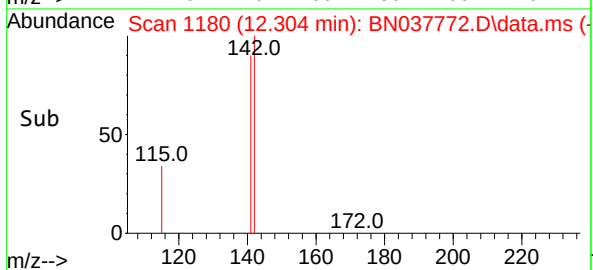
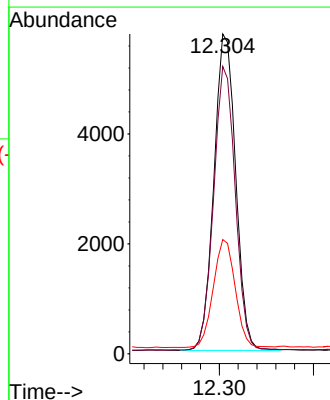
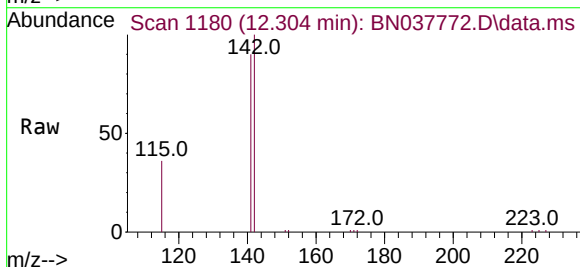
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

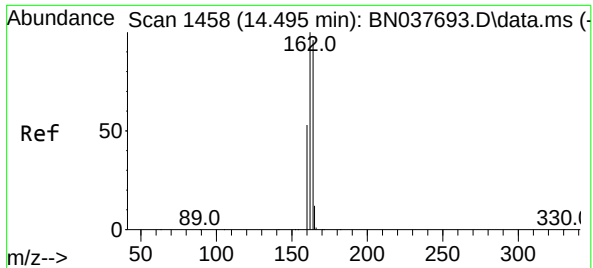
Tgt Ion:152 Resp: 7201
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.304 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:142 Resp: 9253
Ion Ratio Lower Upper
142 100
141 89.8 71.6 107.4
115 35.7 28.6 43.0

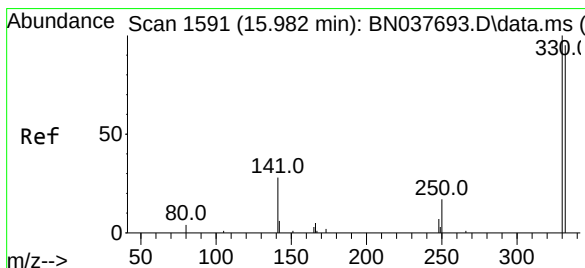
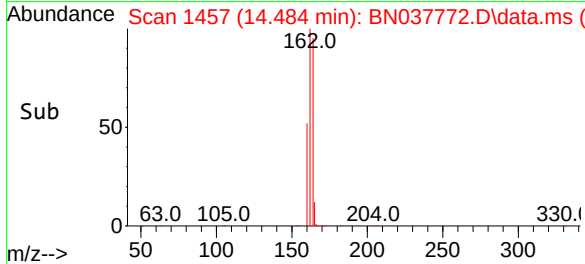
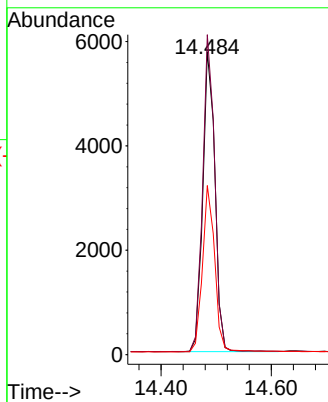
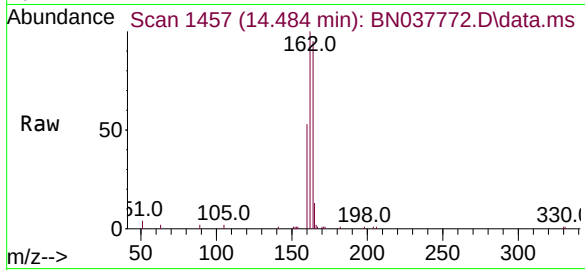




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

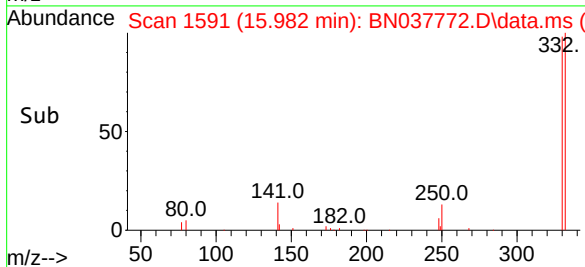
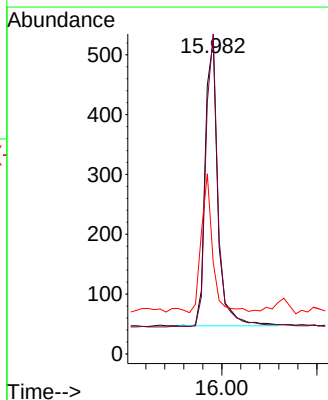
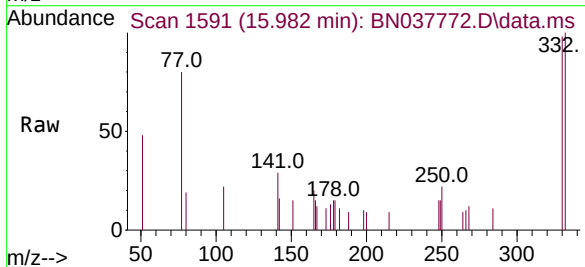
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

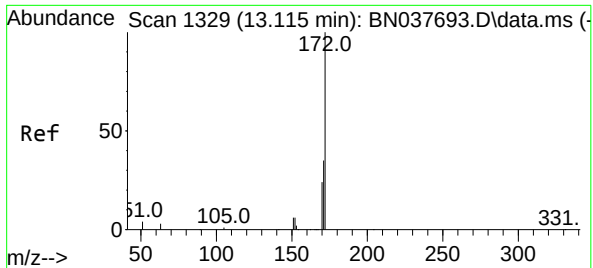
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.1	124.7
160	55.8	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.384 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.5	75.3	112.9
141	43.6	35.0	52.4

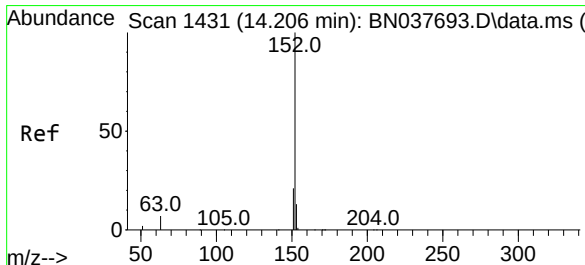
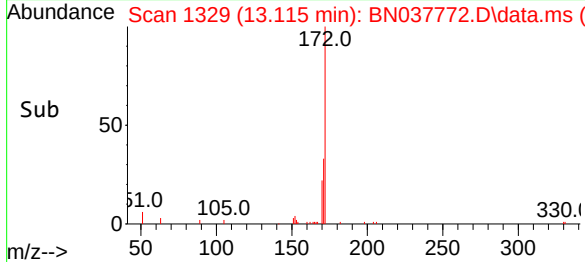
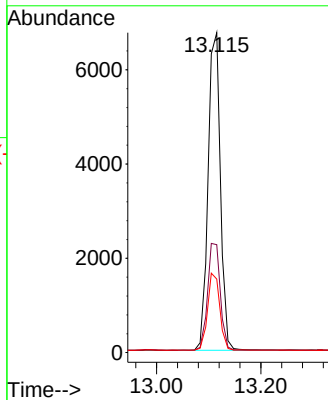
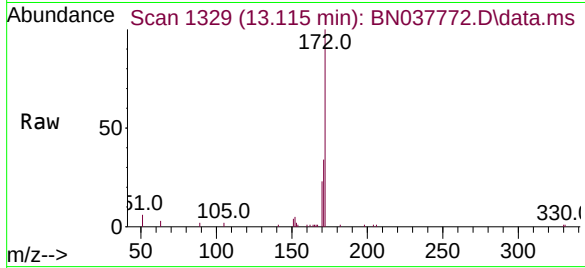




#15
2-Fluorobiphenyl
Concen: 0.303 ng
RT: 13.115 min Scan# 1329
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

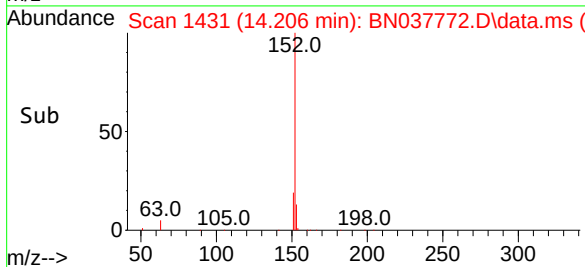
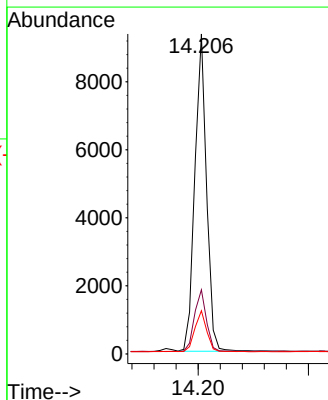
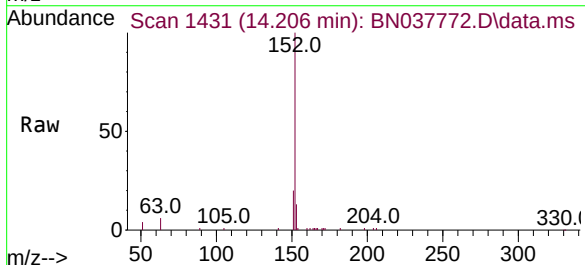
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

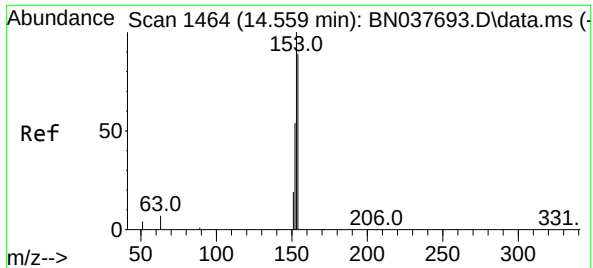
Tgt Ion:	172	Resp:	11146
Ion Ratio	Lower	Upper	
172	100		
171	33.7	28.6	43.0
170	23.0	19.8	29.8



#16
Acenaphthylene
Concen: 0.339 ng
RT: 14.206 min Scan# 1431
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:	152	Resp:	13679
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6

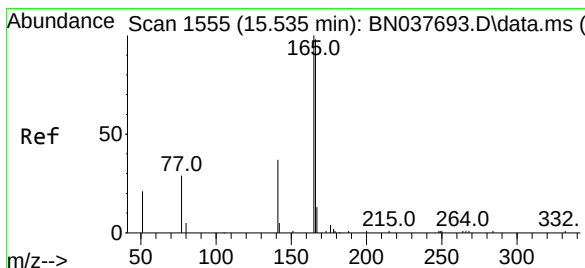
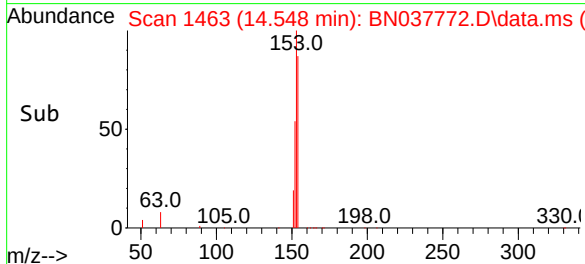
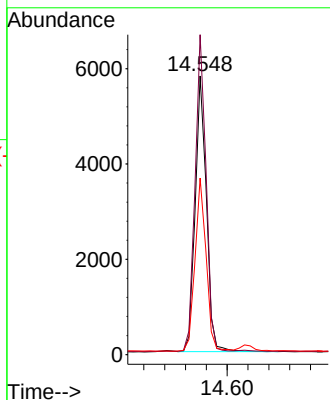
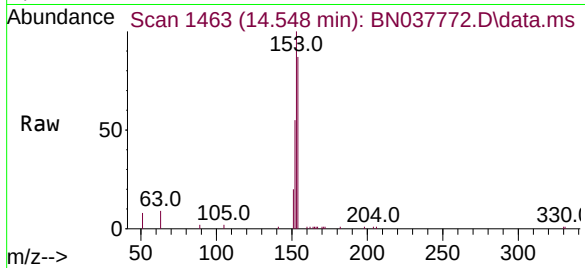




#17
Acenaphthene
Concen: 0.315 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

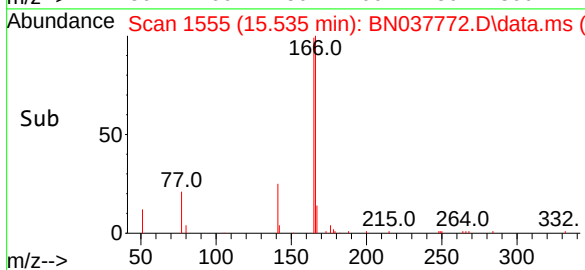
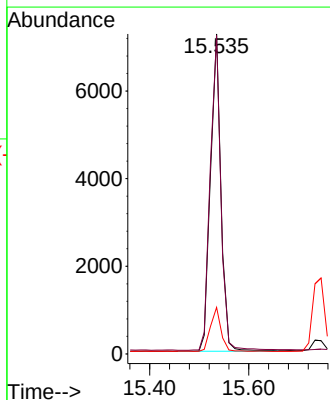
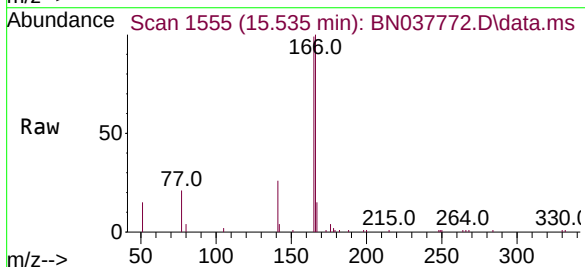
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

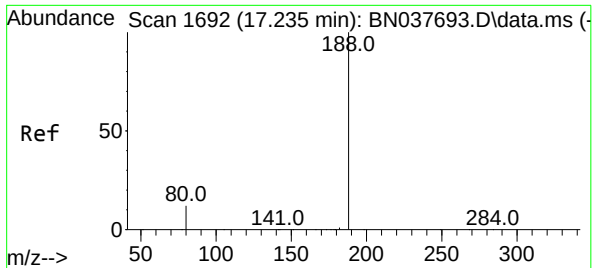
Tgt Ion:154 Resp: 8588
Ion Ratio Lower Upper
154 100
153 113.3 89.8 134.8
152 62.5 50.2 75.2



#18
Fluorene
Concen: 0.311 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:166 Resp: 10257
Ion Ratio Lower Upper
166 100
165 101.5 79.6 119.4
167 14.1 10.6 16.0

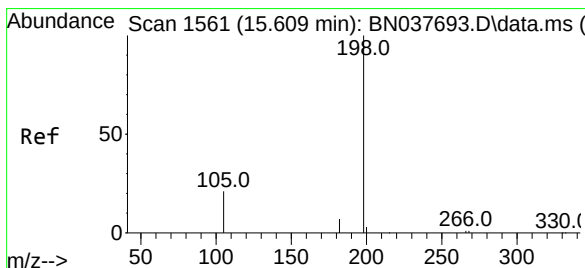
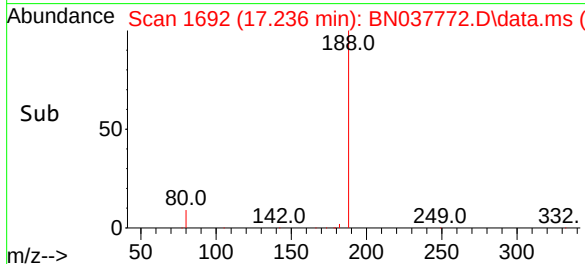
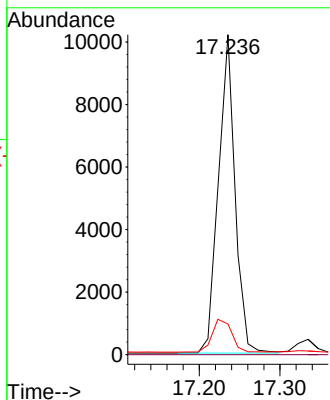
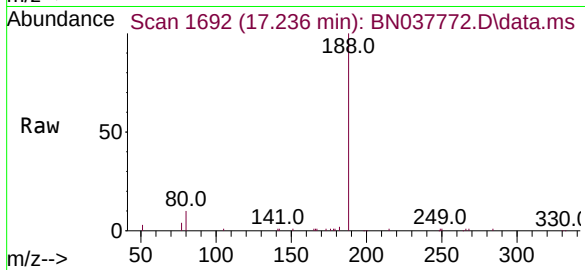




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

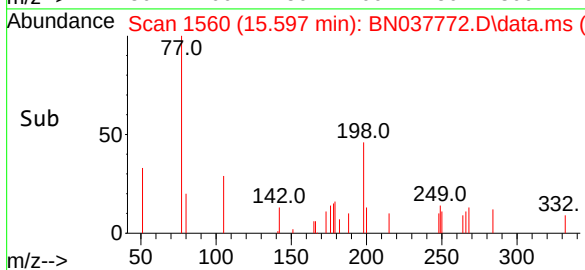
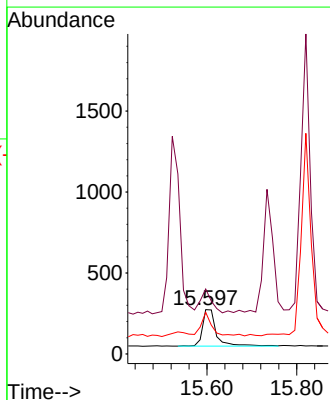
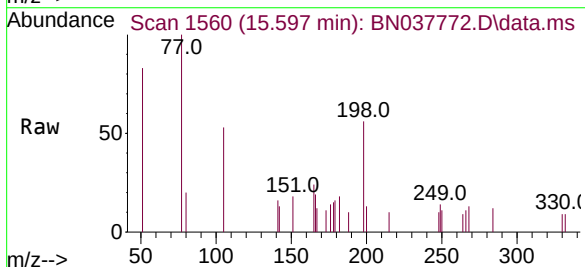
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

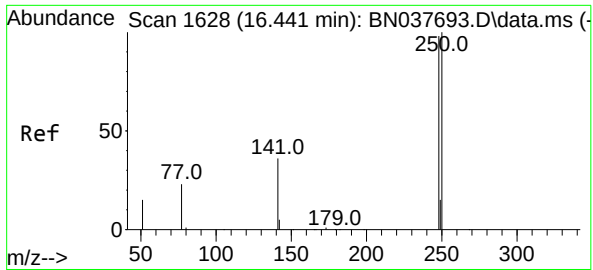
Tgt Ion:188 Resp: 14560
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.6 10.6 15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.358 ng
RT: 15.597 min Scan# 1560
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:198 Resp: 483
Ion Ratio Lower Upper
198 100
51 146.4 95.1 142.7#
105 93.8 53.8 80.6#

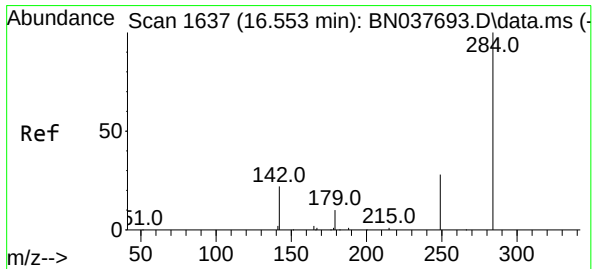
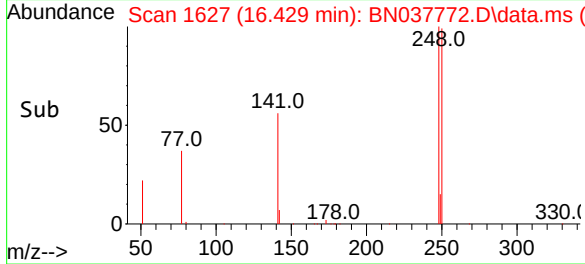
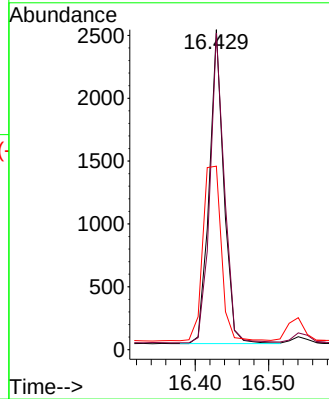
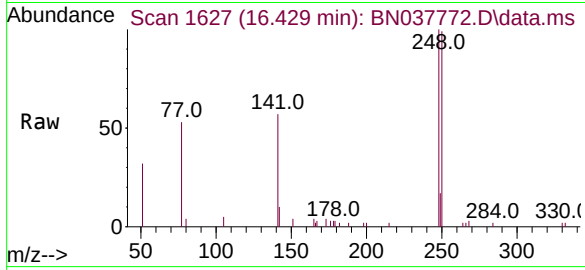




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

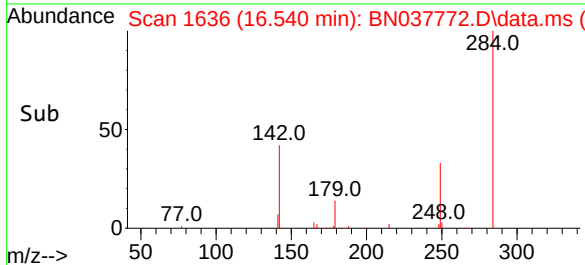
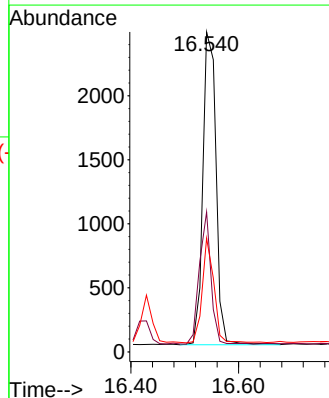
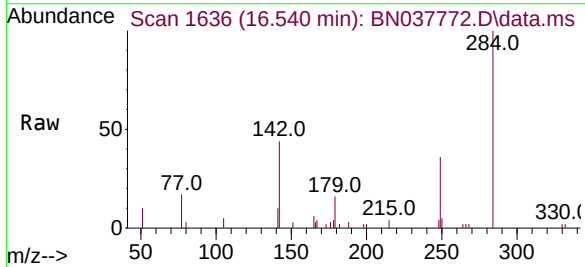
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

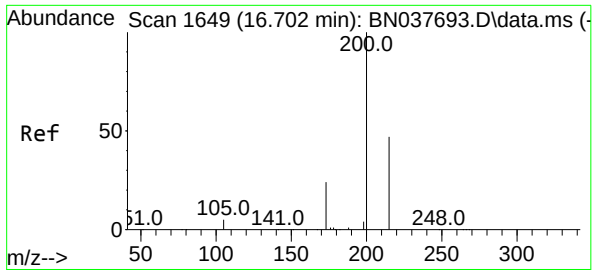
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.9	81.5	122.3
141	57.3	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.0	30.9	46.3
249	29.4	24.8	37.2

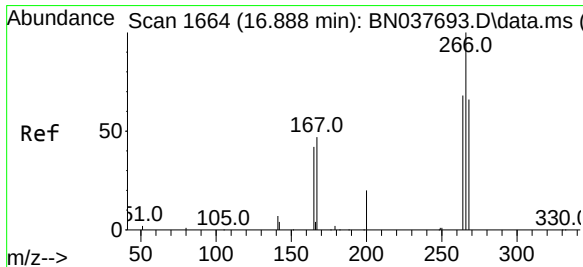
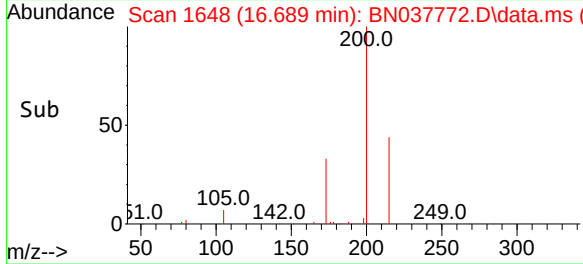
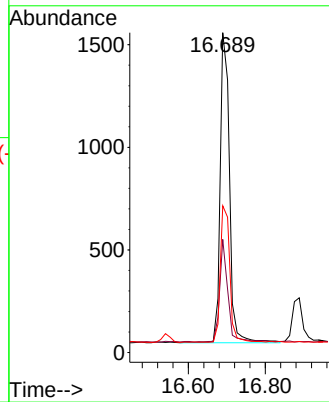
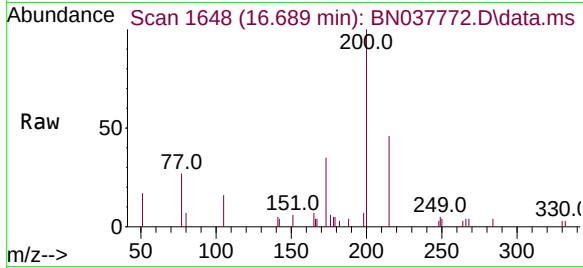




#23
Atrazine
Concen: 0.417 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

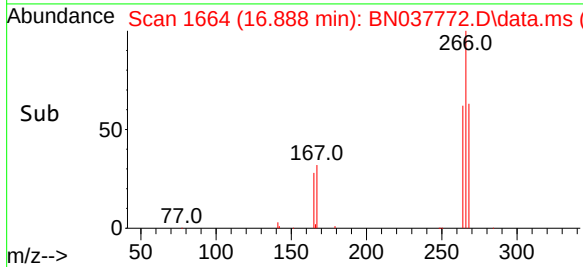
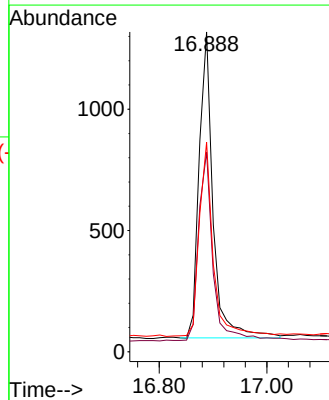
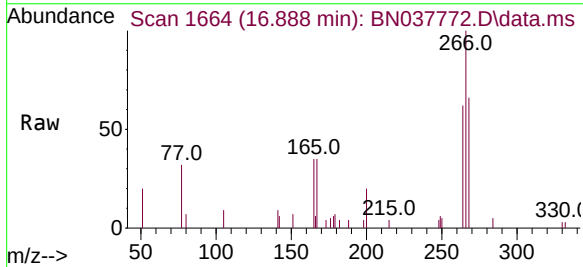
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

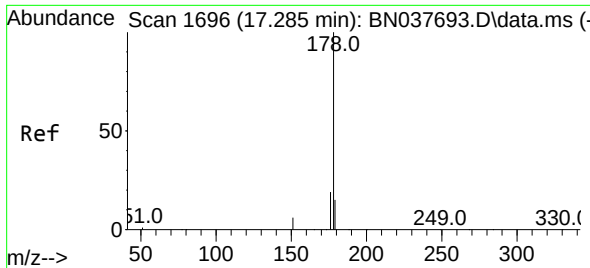
Tgt Ion	Ratio	Lower	Upper
200	100		
173	35.3	21.4	32.2#
215	45.9	39.2	58.8



#24
Pentachlorophenol
Concen: 0.712 ng
RT: 16.888 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.1	51.6	77.4
268	62.9	53.2	79.8

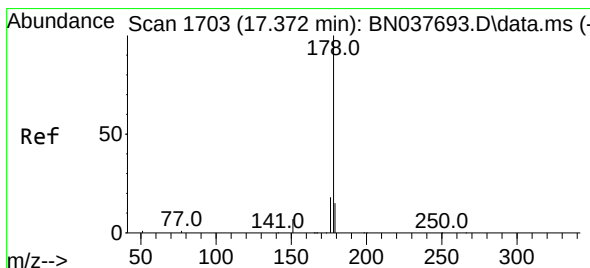
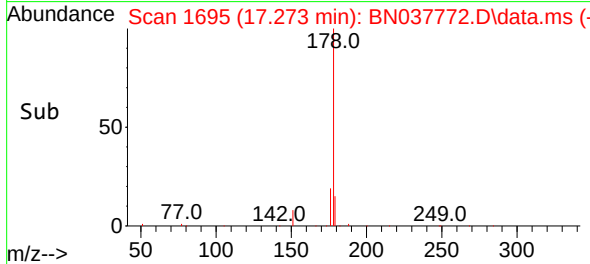
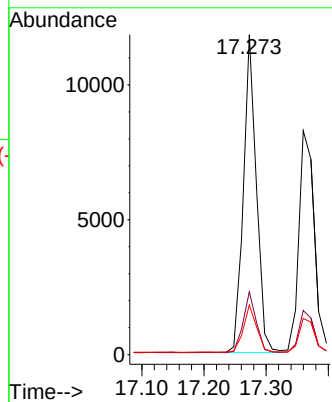
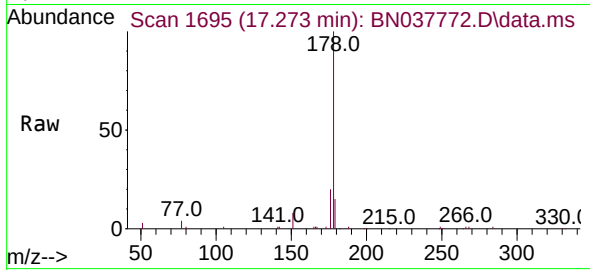




#25
Phenanthrene
Concen: 0.372 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

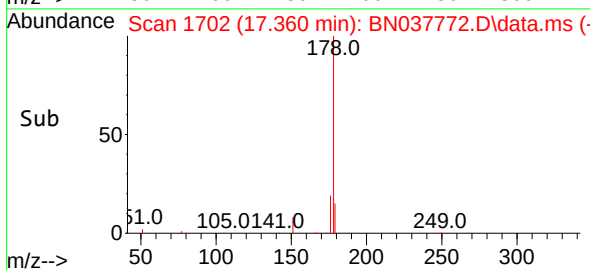
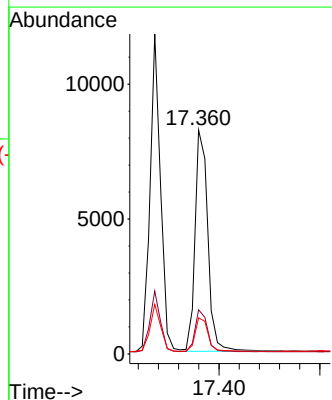
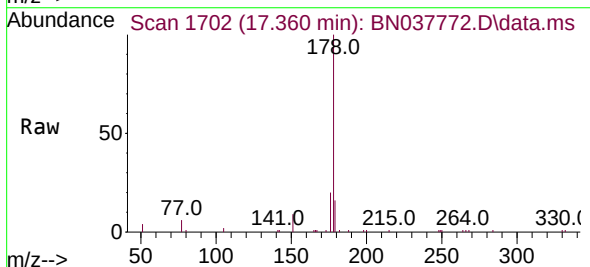
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

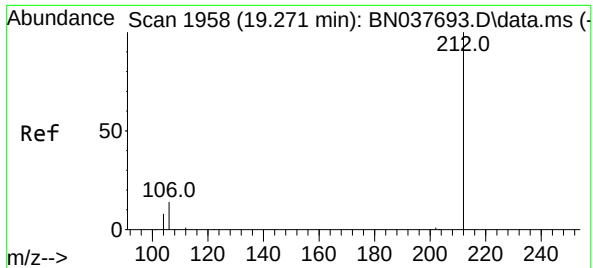
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.2	18.2



#26
Anthracene
Concen: 0.354 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.2	12.2	18.4

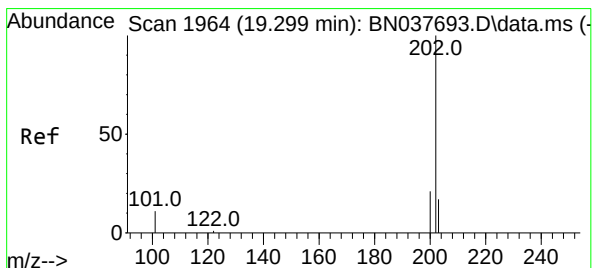
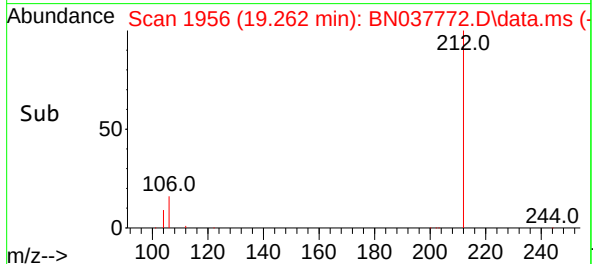
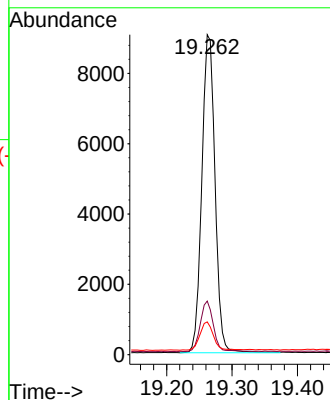
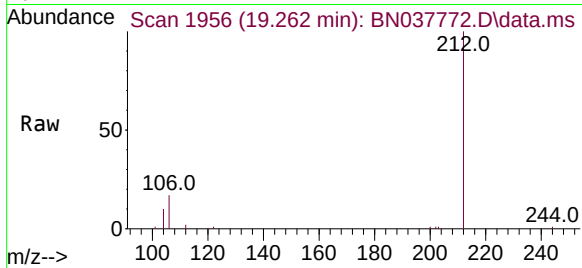




#27
Fluoranthene-d10
Concen: 0.347 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

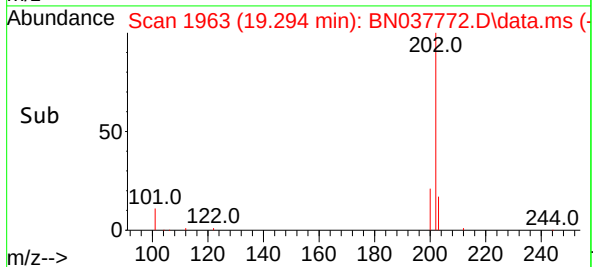
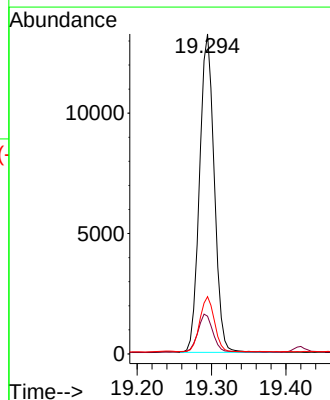
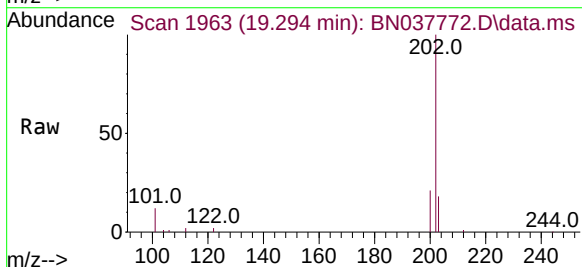
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

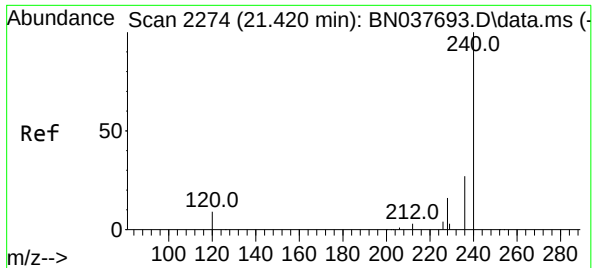
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.2	18.2
104	9.1	6.9	10.3



#28
Fluoranthene
Concen: 0.360 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	9.3	13.9
203	17.0	13.7	20.5

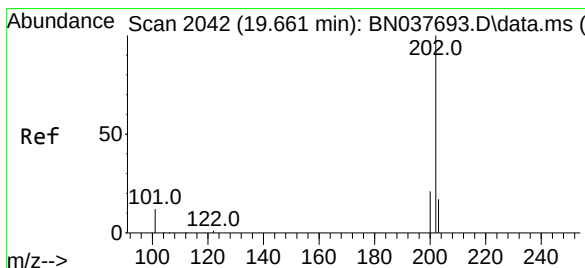
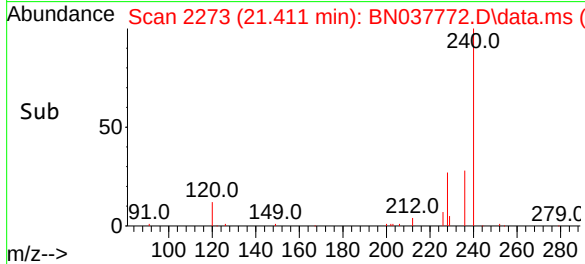
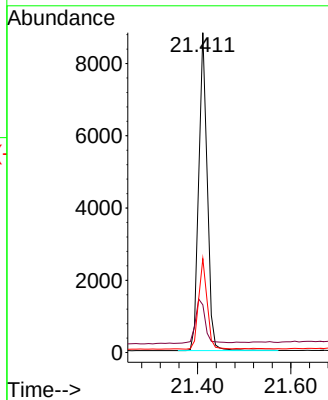
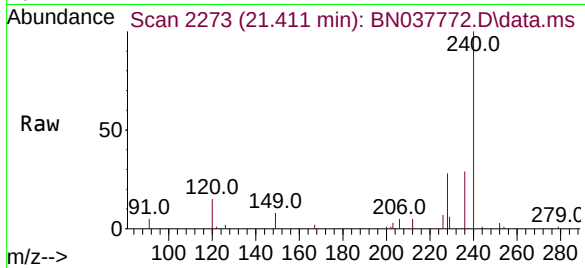




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

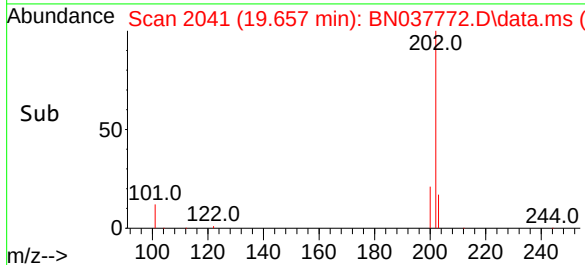
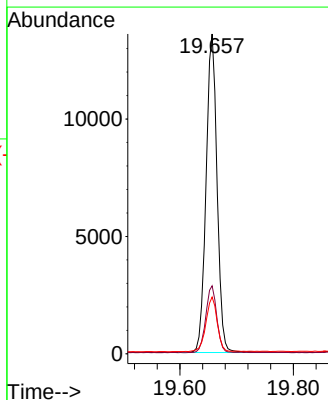
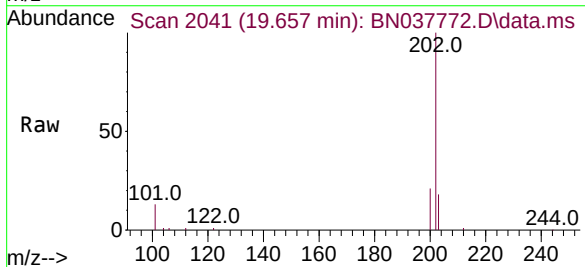
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

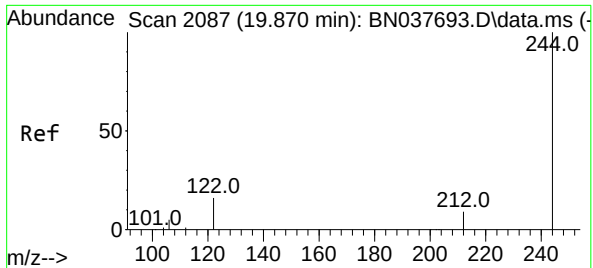
Tgt Ion:240 Resp: 11077
Ion Ratio Lower Upper
240 100
120 14.9 9.2 13.8#
236 29.4 22.6 33.8



#30
Pyrene
Concen: 0.420 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

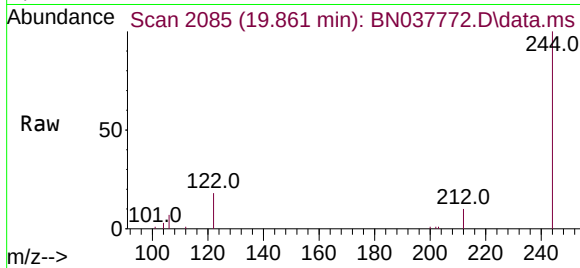
Tgt Ion:202 Resp: 18207
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.6 14.3 21.5



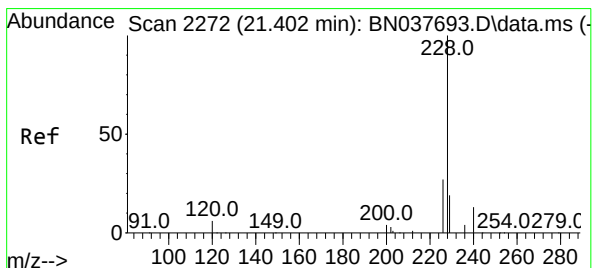
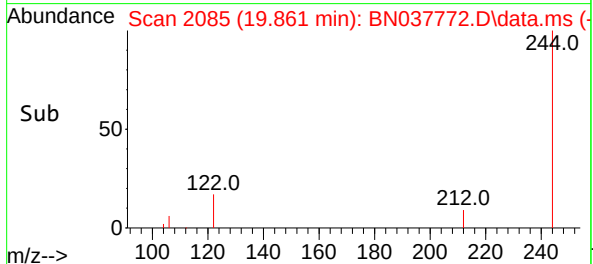
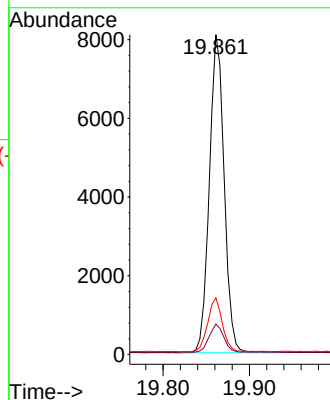


#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.861 min Scan# 2085
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

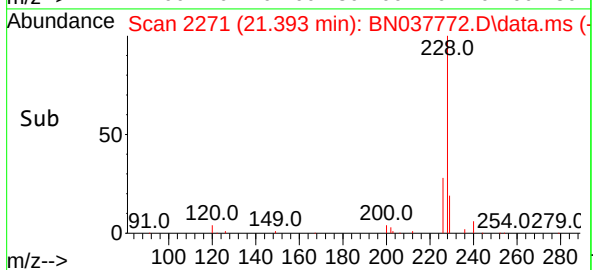
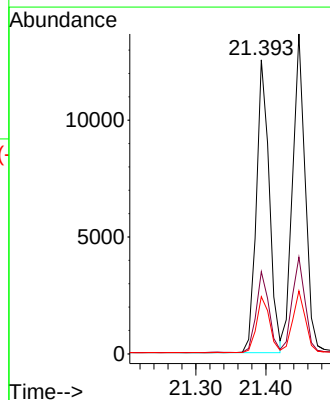
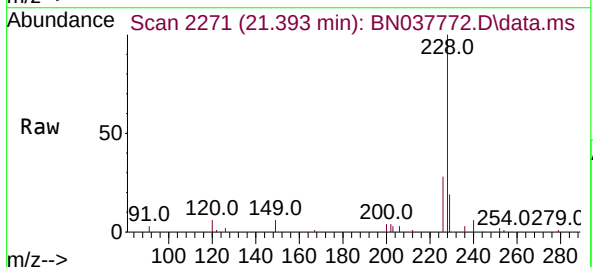


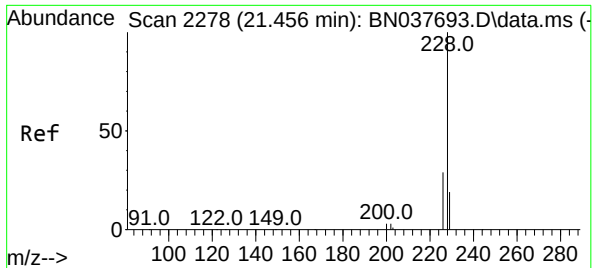
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	17.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	19.5	15.8	23.6





#33

Chrysene

Concen: 0.419 ng

RT: 21.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

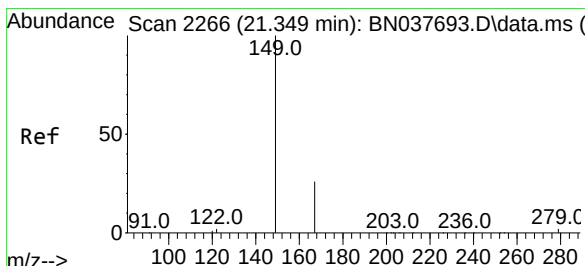
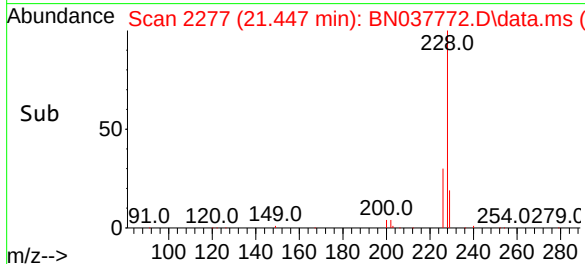
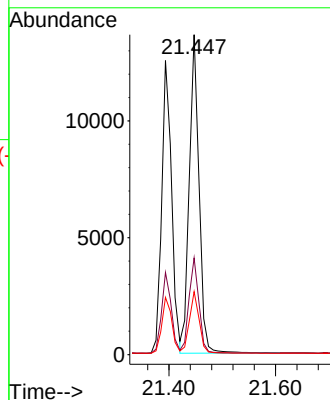
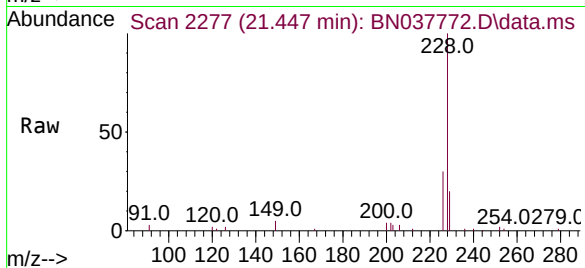
Tgt Ion:228 Resp: 17366

Ion Ratio Lower Upper

228 100

226 30.2 23.5 35.3

229 19.7 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.500 ng

RT: 21.340 min Scan# 2265

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

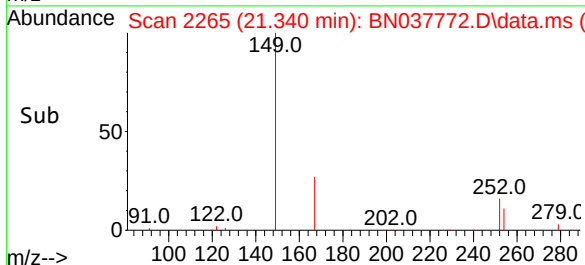
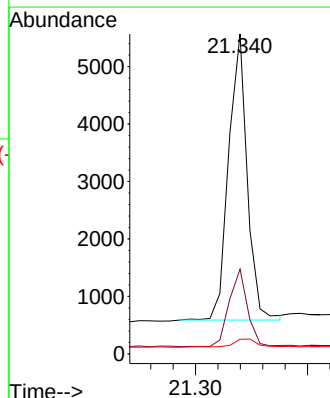
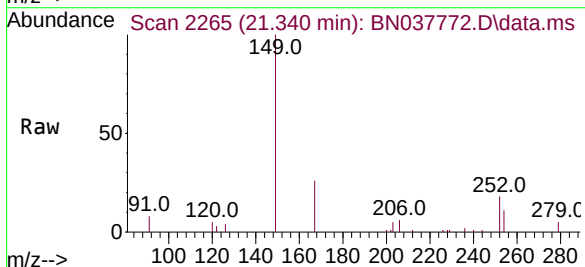
Tgt Ion:149 Resp: 5730

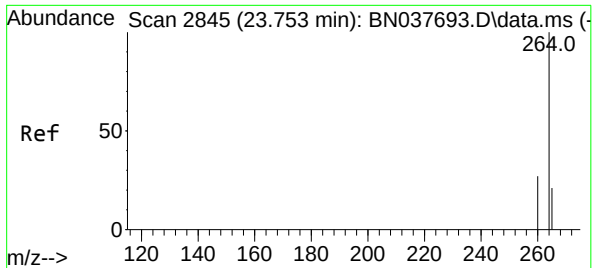
Ion Ratio Lower Upper

149 100

167 26.9 20.8 31.2

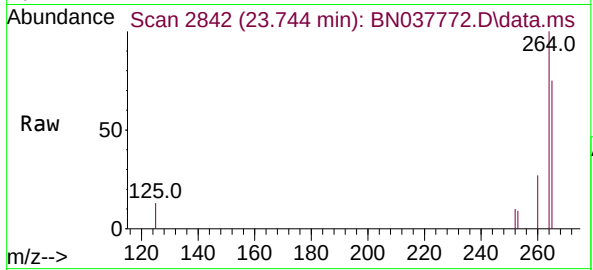
279 4.0 3.3 4.9



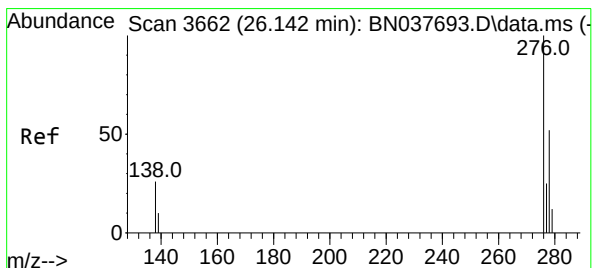
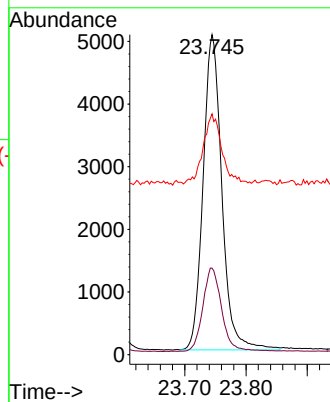
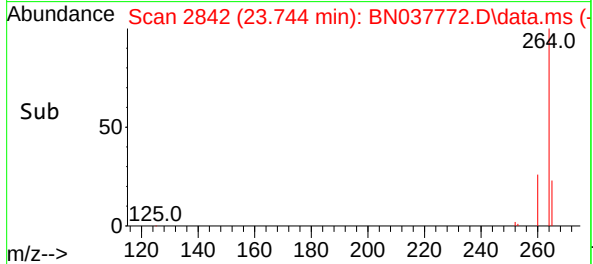


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.744 min Scan# 2842
Delta R.T. -0.009 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MS

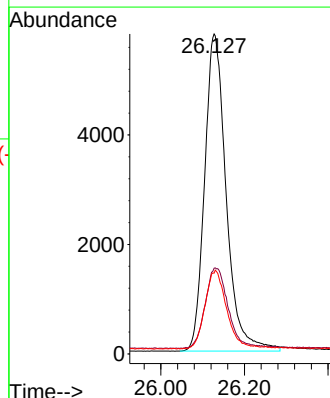
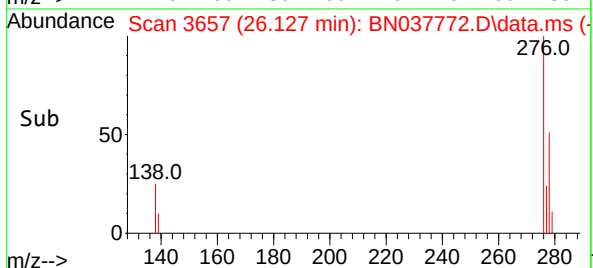
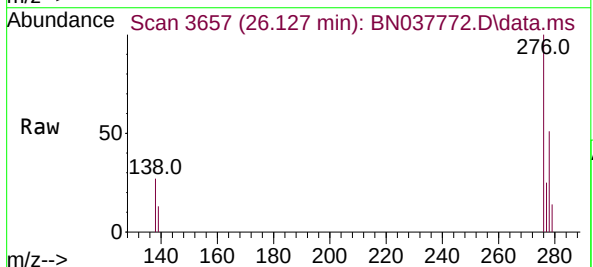


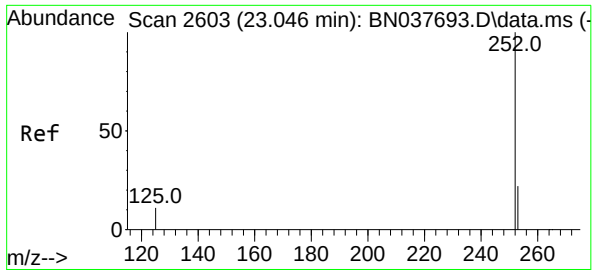
Tgt Ion:264 Resp: 10712
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 75.2 39.4 59.2#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.462 ng
RT: 26.127 min Scan# 3657
Delta R.T. -0.015 min
Lab File: BN037772.D
Acq: 18 Sep 2025 11:48

Tgt Ion:276 Resp: 20796
Ion Ratio Lower Upper
276 100
138 26.7 21.9 32.9
277 24.7 20.1 30.1





#37

Benzo(b)fluoranthene

Concen: 0.428 ng

RT: 23.037 min Scan# 2600

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

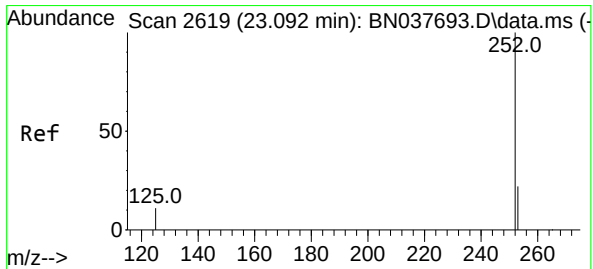
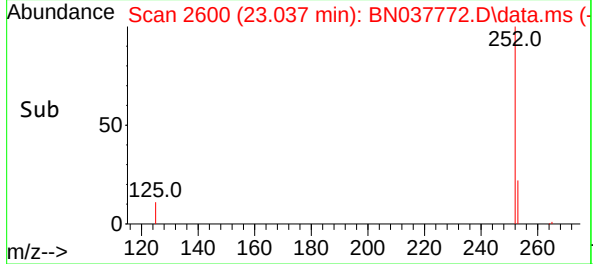
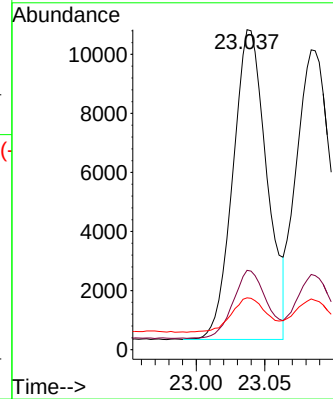
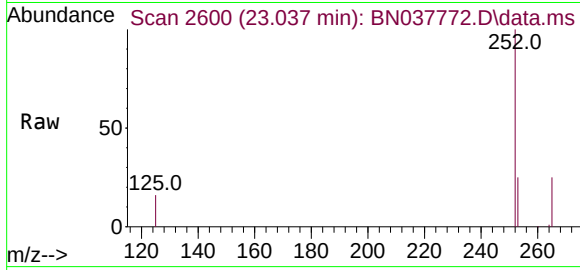
Tgt Ion:252 Resp: 18047

Ion Ratio Lower Upper

252 100

253 24.8 19.4 29.2

125 16.2 11.2 16.8



#38

Benzo(k)fluoranthene

Concen: 0.413 ng

RT: 23.084 min Scan# 2616

Delta R.T. -0.009 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

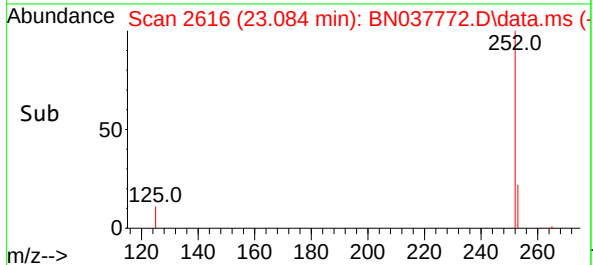
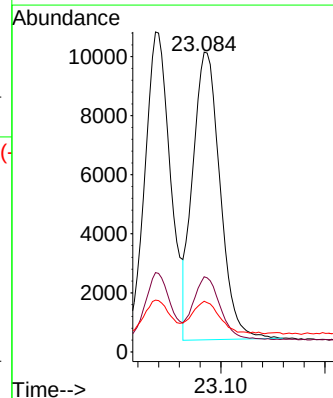
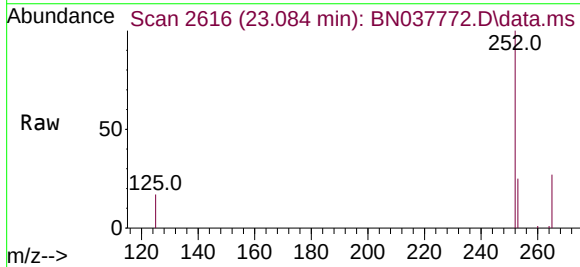
Tgt Ion:252 Resp: 17770

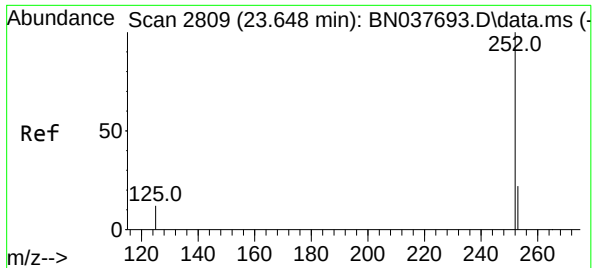
Ion Ratio Lower Upper

252 100

253 25.1 19.4 29.0

125 16.9 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.642 min Scan# 2807

Delta R.T. -0.006 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

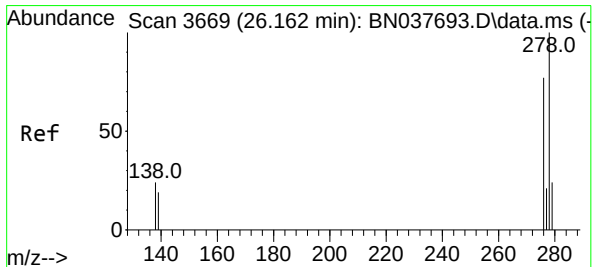
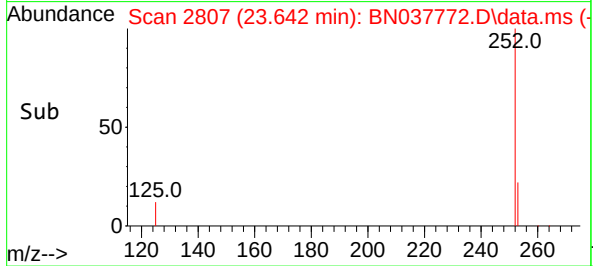
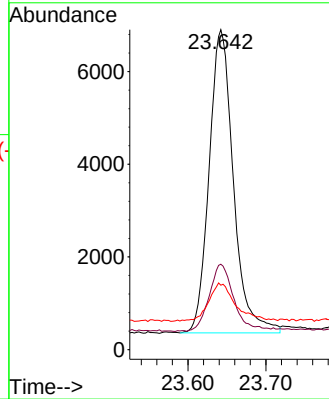
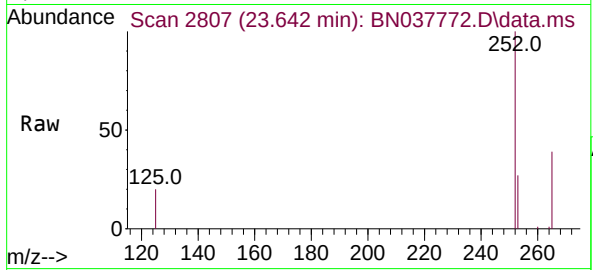
Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS

Tgt Ion:252	Resp:	14195
Ion Ratio	Lower	Upper
252	100	
253	26.7	20.8 31.2
125	20.1	13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.458 ng

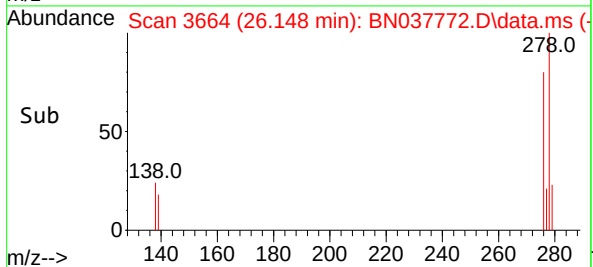
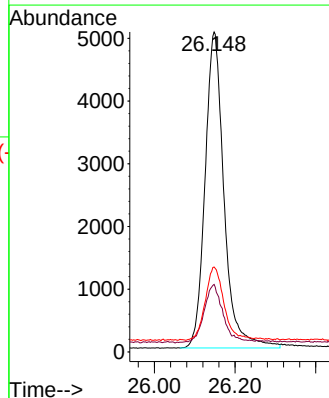
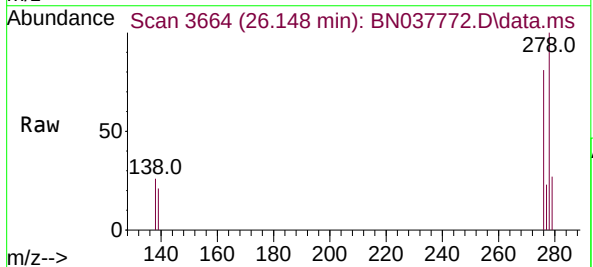
RT: 26.148 min Scan# 3664

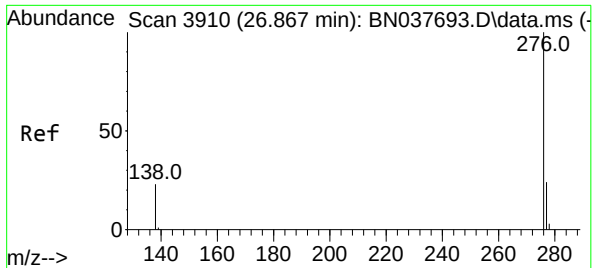
Delta R.T. -0.015 min

Lab File: BN037772.D

Acq: 18 Sep 2025 11:48

Tgt Ion:278	Resp:	16460
Ion Ratio	Lower	Upper
278	100	
139	21.1	17.8 26.6
279	26.5	22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.435 ng

RT: 26.855 min Scan# 39

Delta R.T. -0.012 min

Lab File: BN037772.D

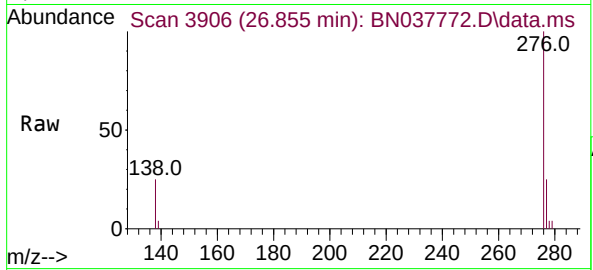
Acq: 18 Sep 2025 11:48

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MS



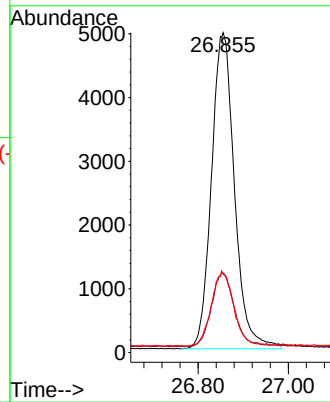
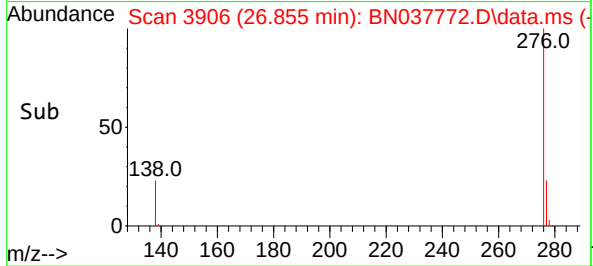
Tgt Ion:276 Resp: 17542

Ion Ratio Lower Upper

276 100

277 24.8 20.6 31.0

138 24.5 20.2 30.2



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD	SDG No.:	Q3097
Lab Sample ID:	Q3097-03MSD	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
BN037773.D	1	09/15/25 12:00	09/18/25 12:25	PB169693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.73		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7160	7.833				
1146-65-2	Naphthalene-d8	19100	10.637				
15067-26-2	Acenaphthene-d10	8490	14.484				
1517-22-2	Phenanthrene-d10	14200	17.235				
1719-03-5	Chrysene-d12	12000	21.411				
1520-96-3	Perylene-d12	11700	23.747				

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\BN091725\
 Data File : BN037773.D
 Acq On : 18 Sep 2025 12:25
 Operator : RC/JU
 Sample : Q3097-03MSD
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE103D2-20250911MSD

Quant Time: Sep 18 12:59:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

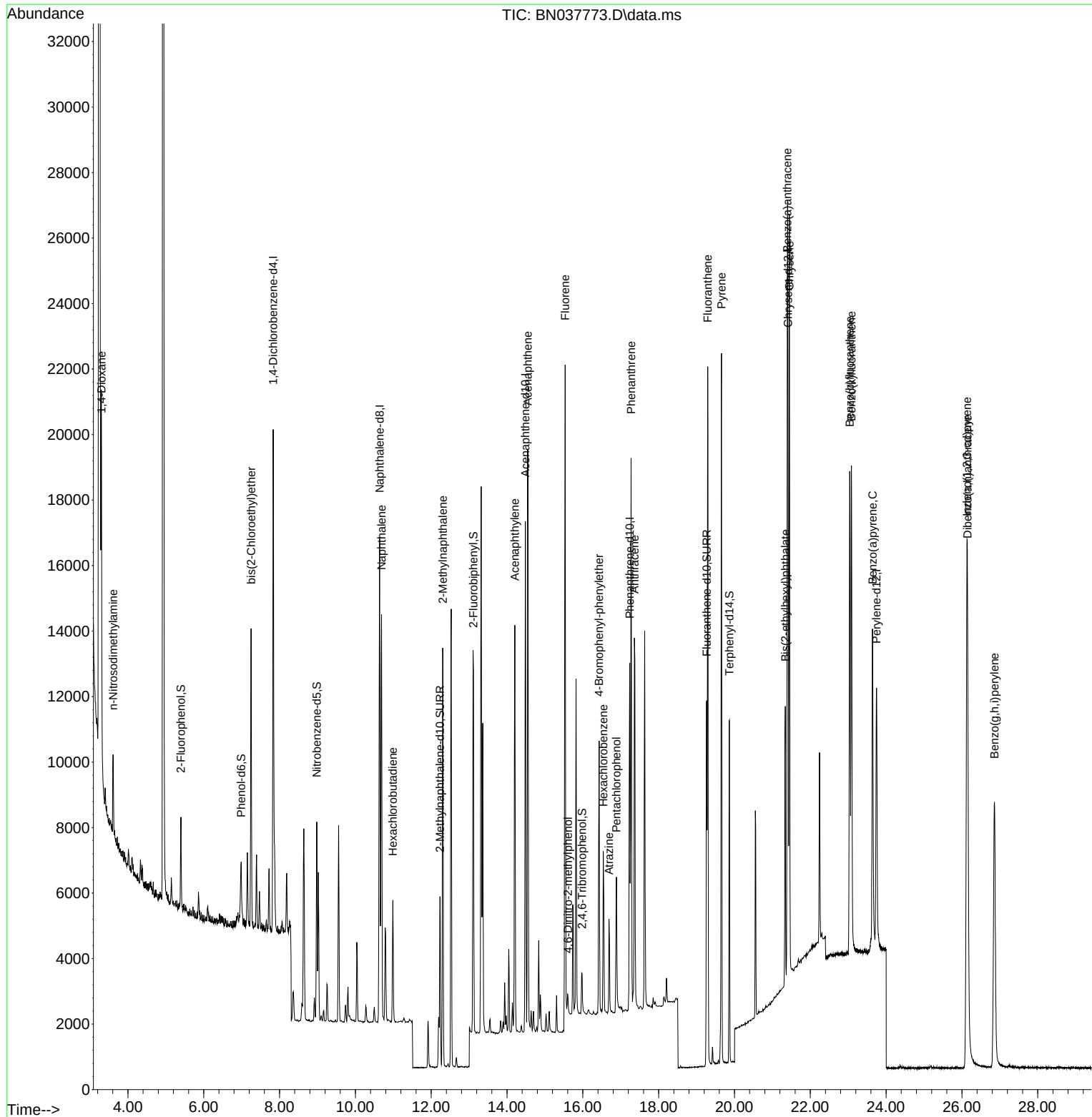
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7159	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19099	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8494	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	14218	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	11982	0.400	ng	# 0.00
35) Perylene-d12	23.747	264	11726	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2162	0.132	ng	0.00
5) Phenol-d6	6.988	99	1603	0.075	ng	0.00
8) Nitrobenzene-d5	8.982	82	4572	0.327	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7086	0.280	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	876	0.395	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	10884	0.306	ng	0.00
27) Fluoranthene-d10	19.266	212	12926	0.362	ng	0.00
31) Terphenyl-d14	19.866	244	9877	0.406	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	5455	0.732	ng	# 93
3) n-Nitrosodimethylamine	3.608	42	1372	0.141	ng	# 93
6) bis(2-Chloroethyl)ether	7.248	93	6329	0.332	ng	100
9) Naphthalene	10.690	128	16829	0.322	ng	99
10) Hexachlorobutadiene	10.989	225	2887	0.306	ng	# 98
12) 2-Methylnaphthalene	12.303	142	9108	0.282	ng	100
16) Acenaphthylene	14.206	152	13370	0.343	ng	99
17) Acenaphthene	14.548	154	8415	0.319	ng	99
18) Fluorene	15.535	166	10028	0.314	ng	100
20) 4,6-Dinitro-2-methylph...	15.609	198	468	0.355	ng	94
21) 4-Bromophenyl-phenylether	16.429	248	3385	0.365	ng	# 87
22) Hexachlorobenzene	16.540	284	3993	0.374	ng	98
23) Atrazine	16.689	200	2440	0.414	ng	# 90
24) Pentachlorophenol	16.888	266	2303	0.744	ng	97
25) Phenanthrene	17.273	178	16893	0.377	ng	99
26) Anthracene	17.359	178	14220	0.359	ng	99
28) Fluoranthene	19.294	202	18446	0.376	ng	99
30) Pyrene	19.657	202	18763	0.400	ng	100
32) Benzo(a)anthracene	21.393	228	17097	0.409	ng	99
33) Chrysene	21.447	228	18729	0.418	ng	98
34) Bis(2-ethylhexyl)phtha...	21.339	149	5916	0.477	ng	99
36) Indeno(1,2,3-cd)pyrene	26.130	276	22920	0.465	ng	99
37) Benzo(b)fluoranthene	23.040	252	19407	0.420	ng	98
38) Benzo(k)fluoranthene	23.086	252	19956	0.424	ng	98
39) Benzo(a)pyrene	23.642	252	15734	0.426	ng	98
40) Dibenzo(a,h)anthracene	26.148	278	17896	0.455	ng	97
41) Benzo(g,h,i)perylene	26.855	276	19134	0.433	ng	98

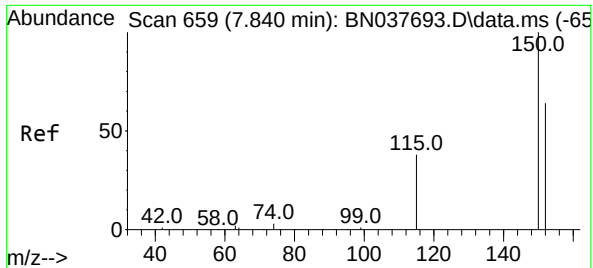
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091725\
Data File : BN037773.D
Acq On : 18 Sep 2025 12:25
Operator : RC/JU
Sample : Q3097-03MSD
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

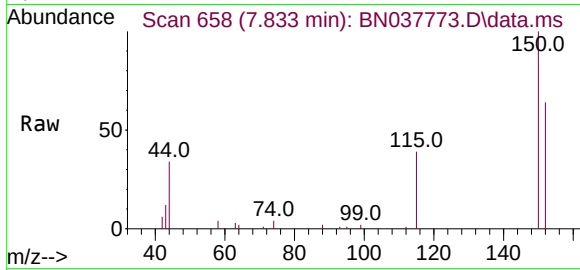
Quant Time: Sep 18 12:59:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



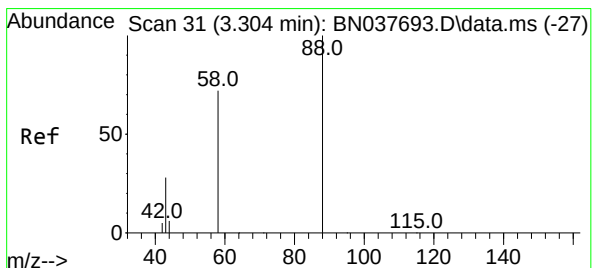
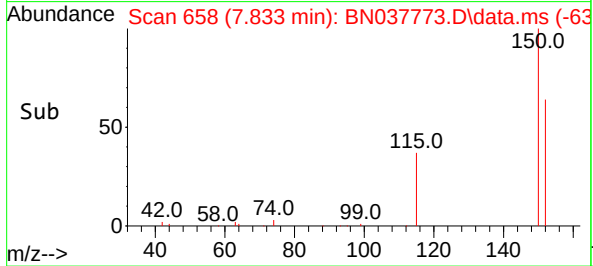
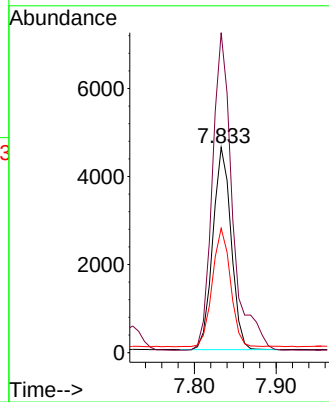


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

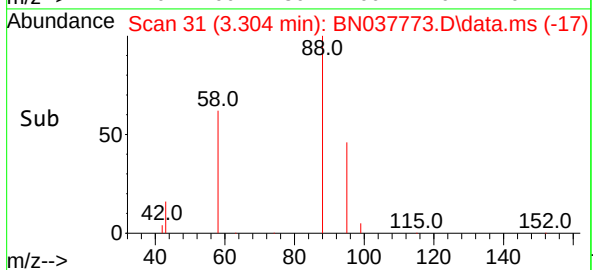
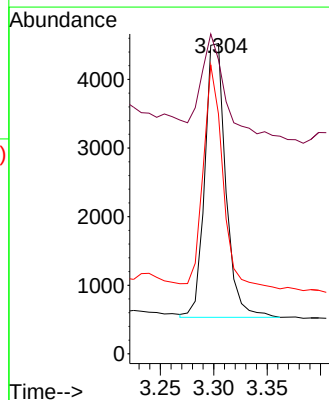
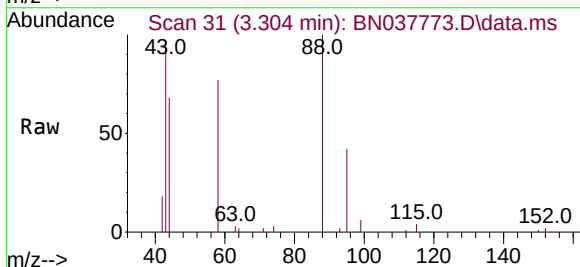


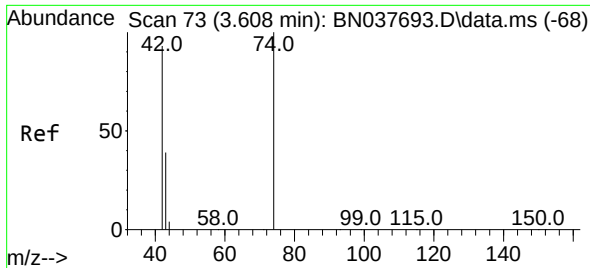
Tgt Ion:152 Resp: 7159
Ion Ratio Lower Upper
152 100
150 155.9 124.5 186.7
115 60.5 49.2 73.8



#2
1,4-Dioxane
Concen: 0.732 ng
RT: 3.304 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 88 Resp: 5455
Ion Ratio Lower Upper
88 100
43 45.0 26.8 40.2#
58 76.7 61.9 92.9

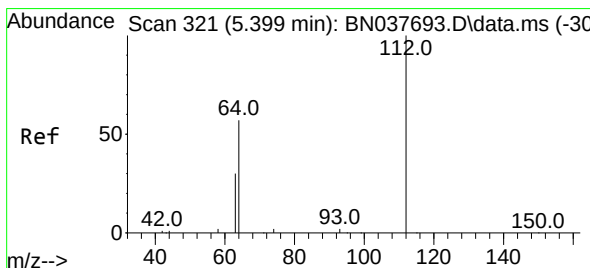
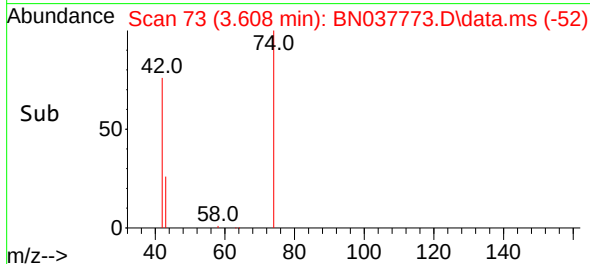
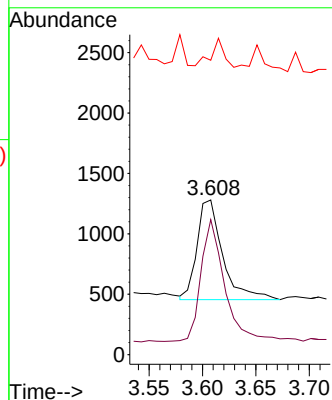
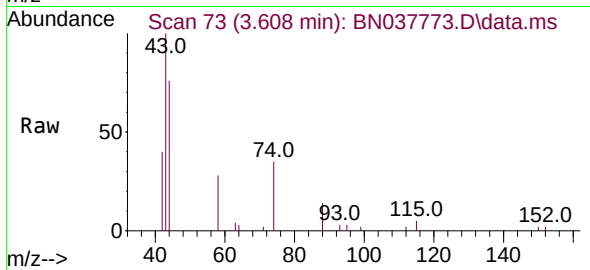




#3
n-Nitrosodimethylamine
Concen: 0.141 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

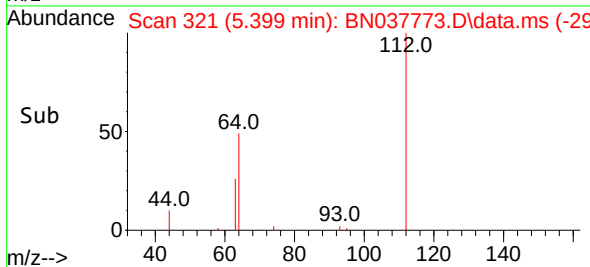
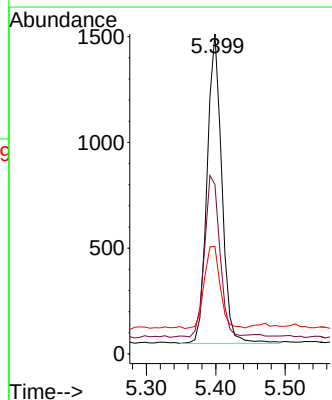
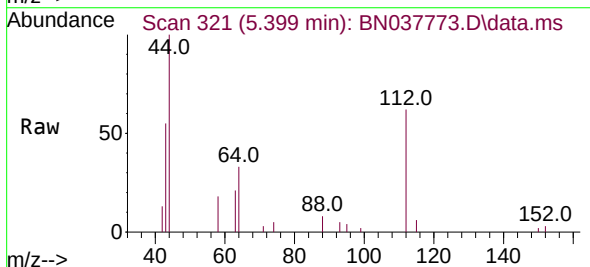
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

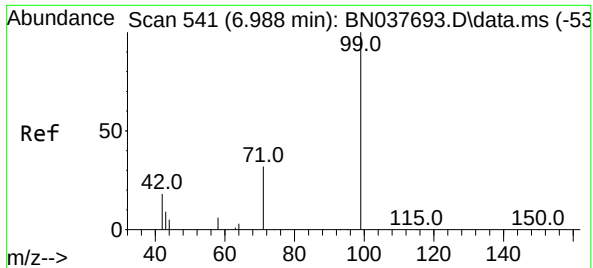
Tgt Ion: 42 Resp: 1372
Ion Ratio Lower Upper
42 100
74 114.1 86.0 129.0
44 15.3 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion: 112 Resp: 2162
Ion Ratio Lower Upper
112 100
64 54.6 44.9 67.3
63 28.6 24.7 37.1

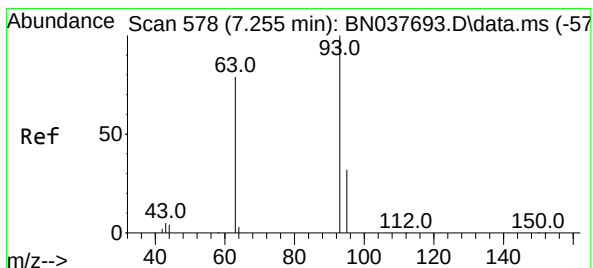
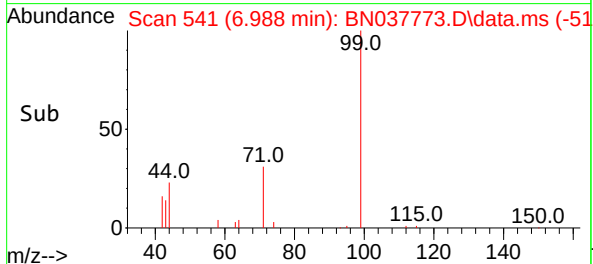
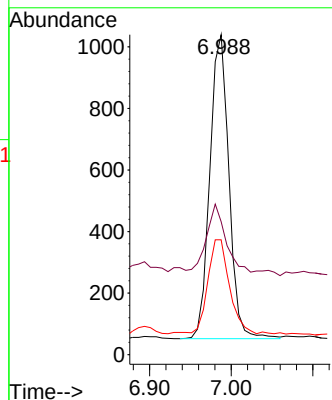
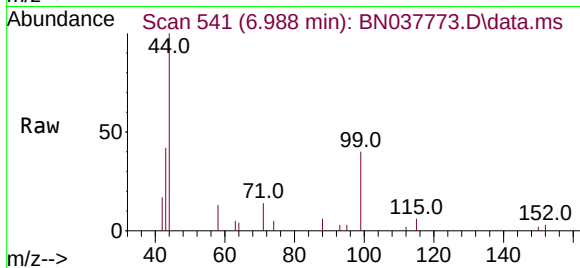




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

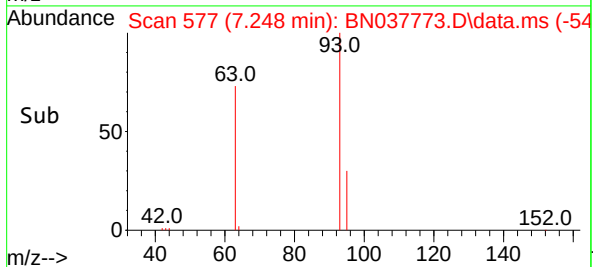
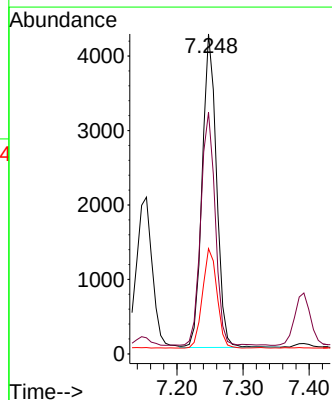
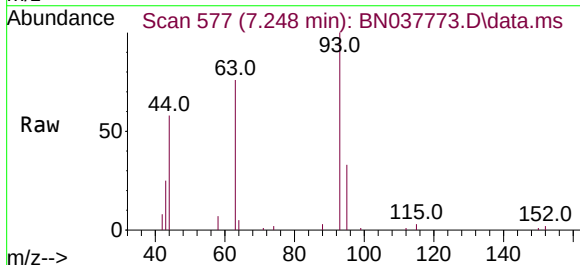
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

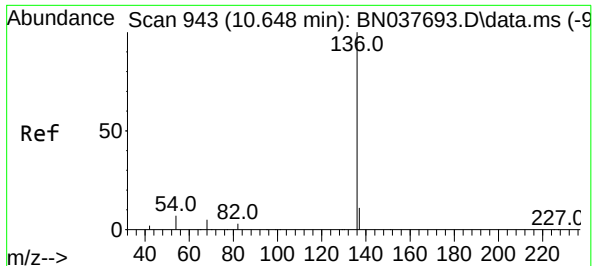
Tgt Ion:	99	Resp:	1603
Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.6	24.8
71	36.1	26.7	40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.332 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	93	Resp:	6329
Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.6	90.8
95	32.2	26.0	39.0

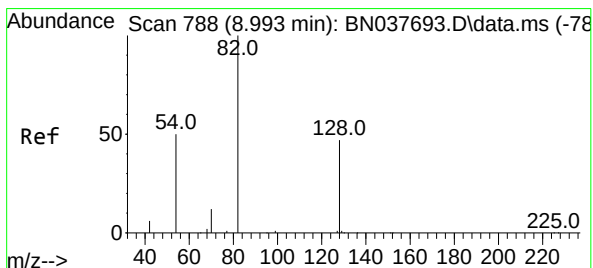
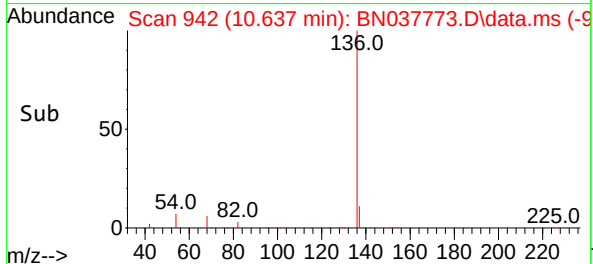
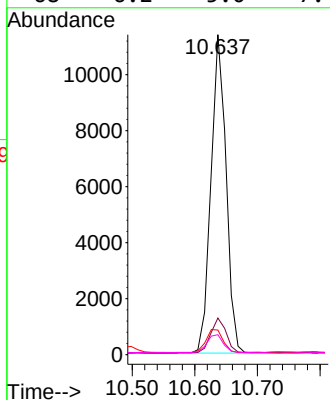
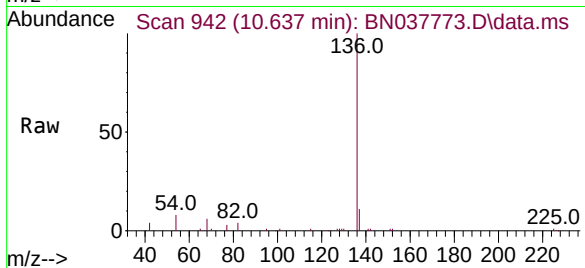




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

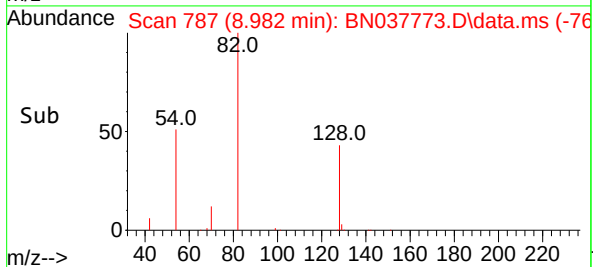
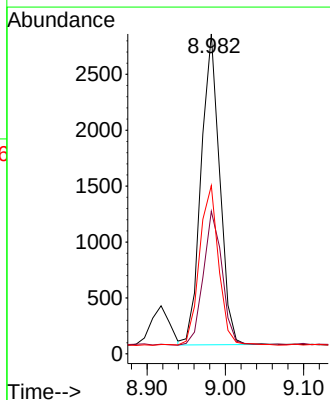
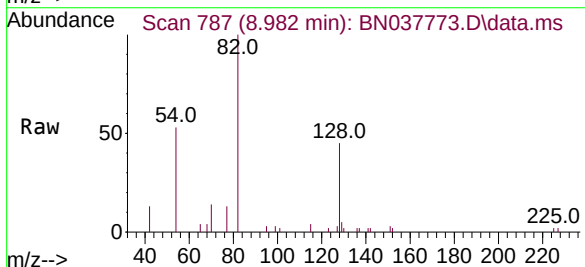
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

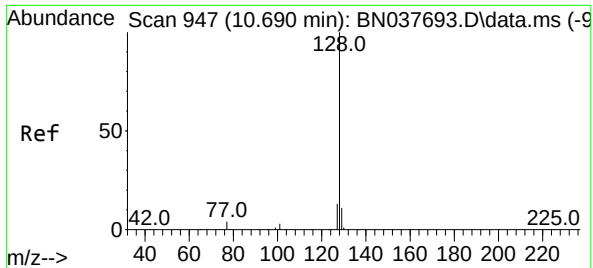
Tgt Ion:	136	Resp:	19099
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	7.7	6.3	9.5
68	6.2	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	82	Resp:	4572
Ion	Ratio	Lower	Upper
82	100		
128	44.6	38.3	57.5
54	52.6	41.4	62.2

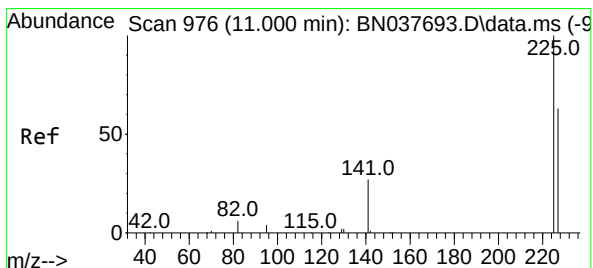
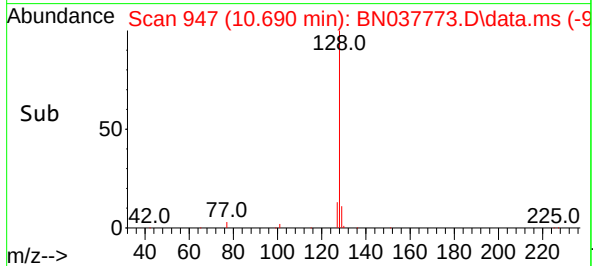
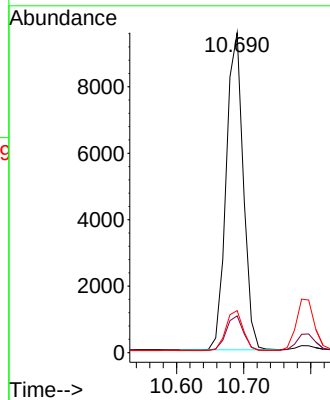
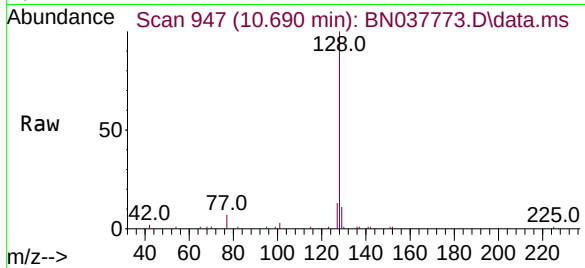




#9
Naphthalene
Concen: 0.322 ng
RT: 10.690 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

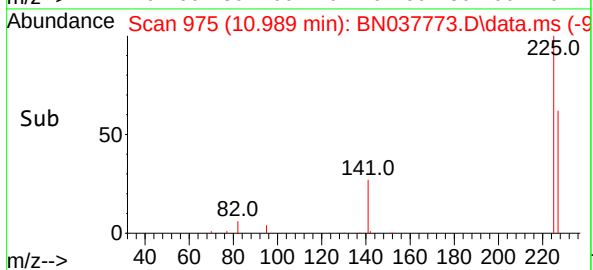
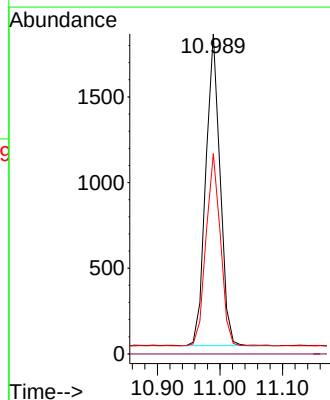
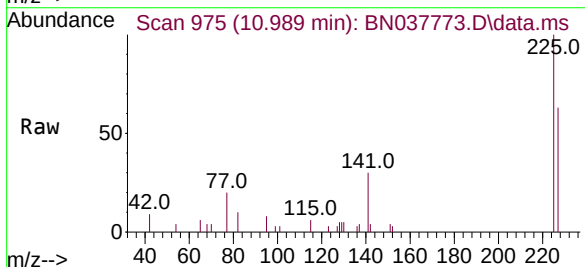
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

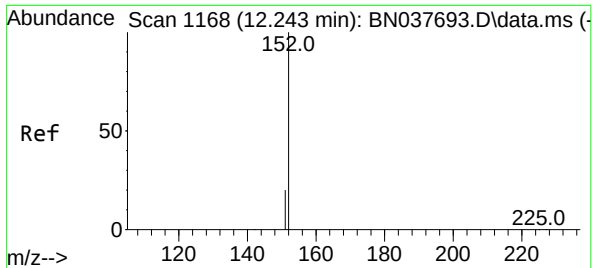
Tgt Ion:	128	Resp:	16829
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.1	13.7
127	13.1	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.306 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	225	Resp:	2887
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.2	50.9	76.3

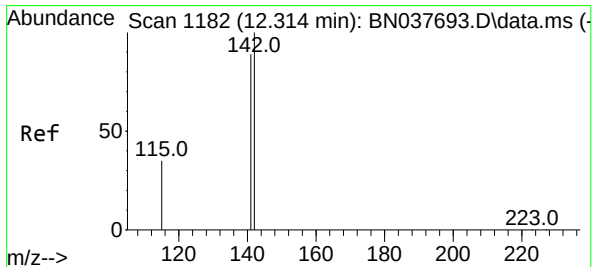
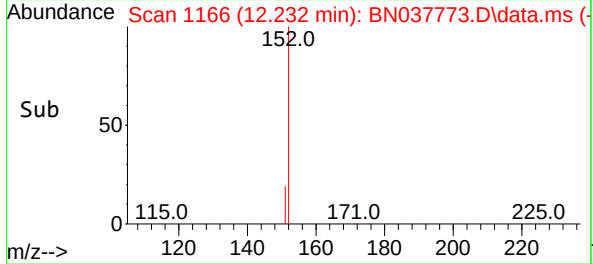
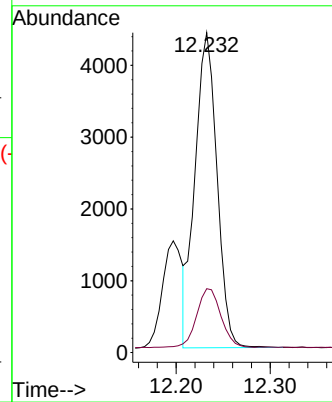
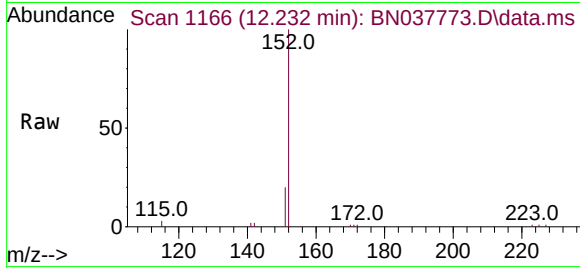




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

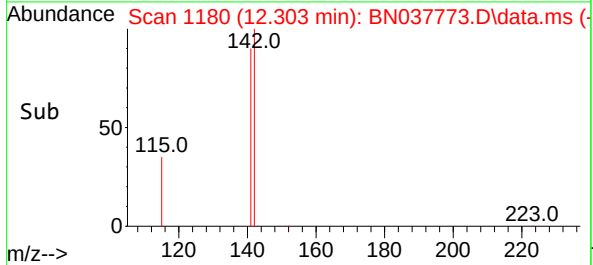
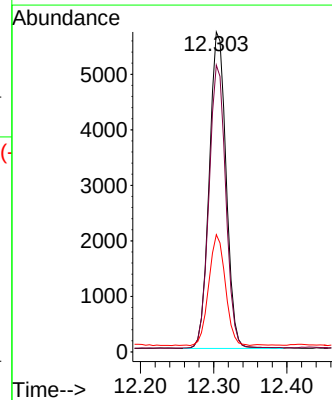
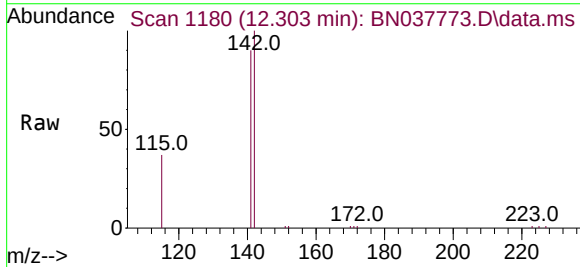
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

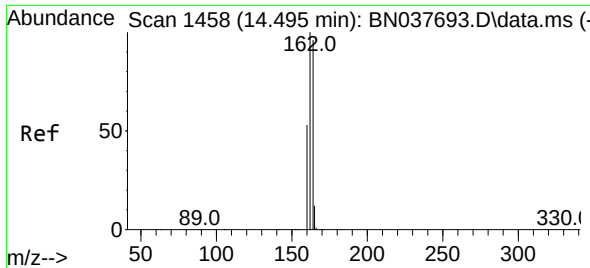
Tgt Ion:152 Resp: 7086
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.282 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:142 Resp: 9108
Ion Ratio Lower Upper
142 100
141 89.6 71.6 107.4
115 36.6 28.6 43.0

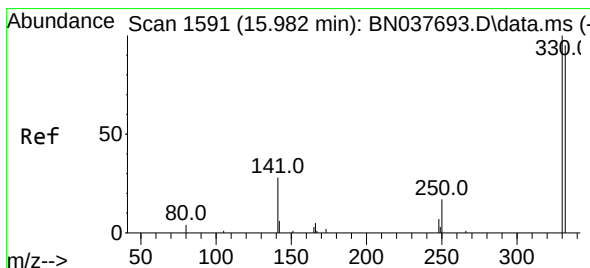
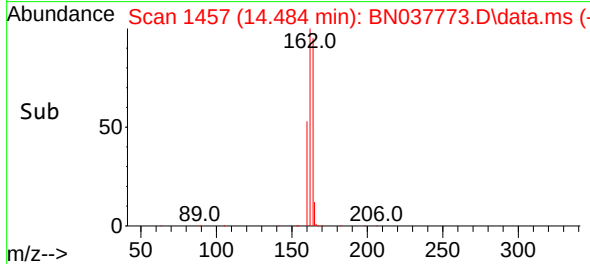
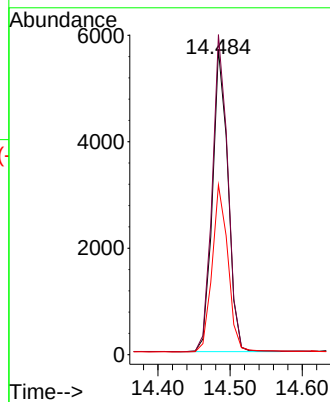
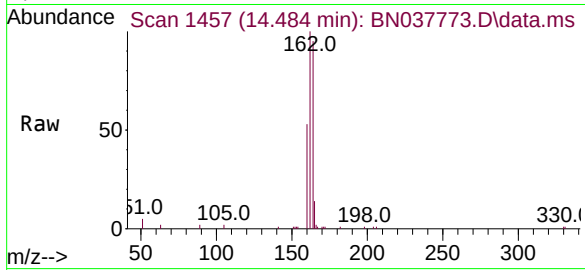




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

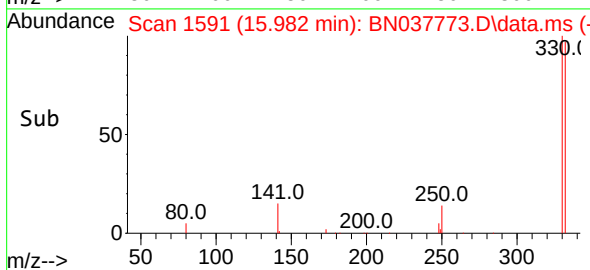
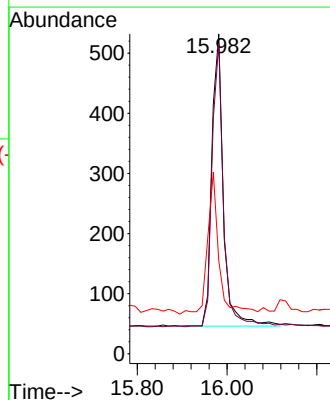
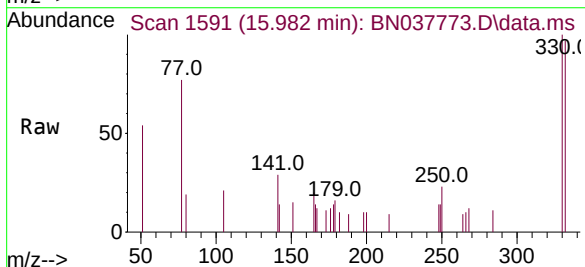
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

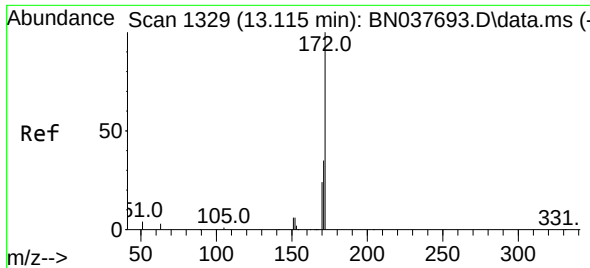
Tgt Ion:	164	Resp:	8494
Ion	Ratio	Lower	Upper
164	100		
162	105.0	83.1	124.7
160	55.7	44.3	66.5



#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	330	Resp:	876
Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.3	112.9
141	47.4	35.0	52.4

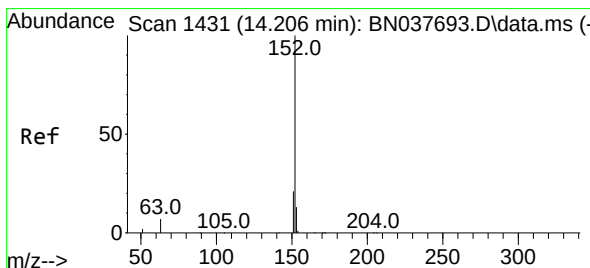
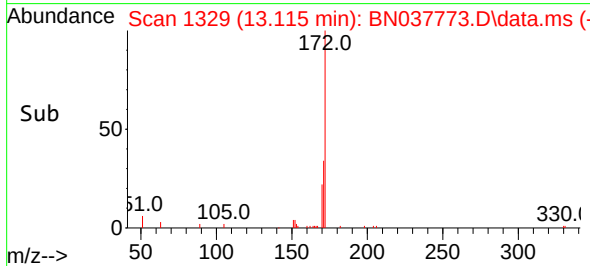
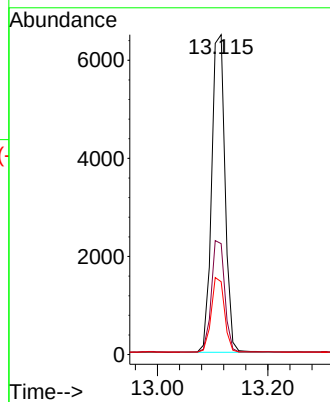
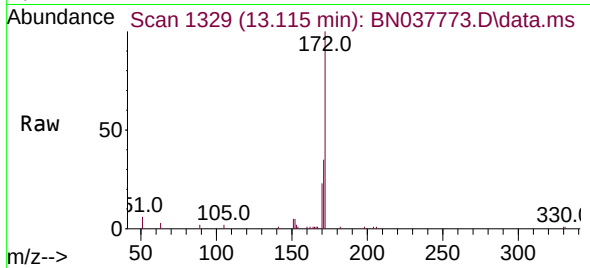




#15
2-Fluorobiphenyl
Concen: 0.306 ng
RT: 13.115 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

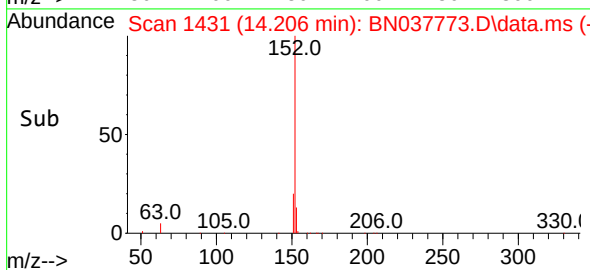
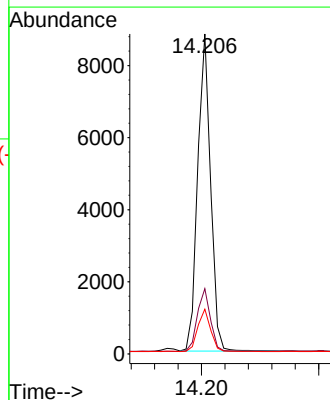
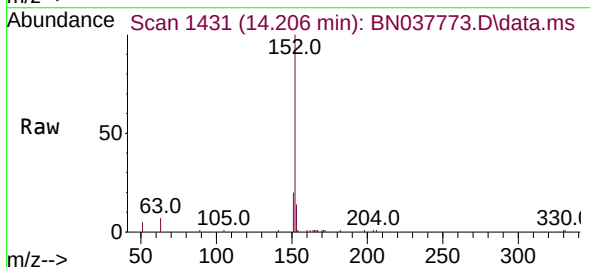
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

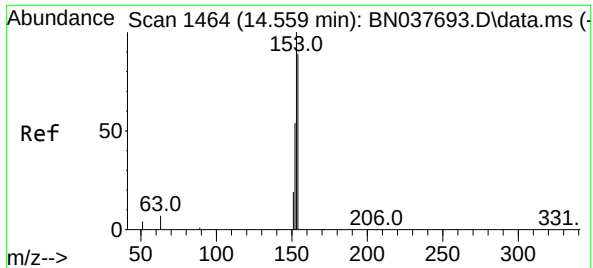
Tgt Ion:	172	Resp:	10884
Ion Ratio	Lower	Upper	
172	100		
171	34.7	28.6	43.0
170	22.8	19.8	29.8



#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:	152	Resp:	13370
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.2	24.2
153	13.3	10.4	15.6

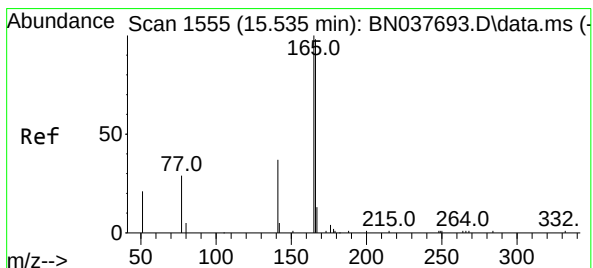
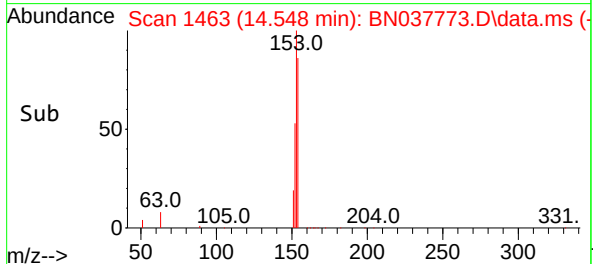
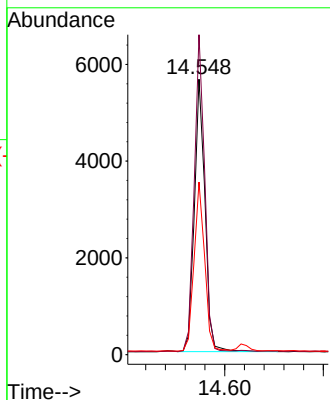
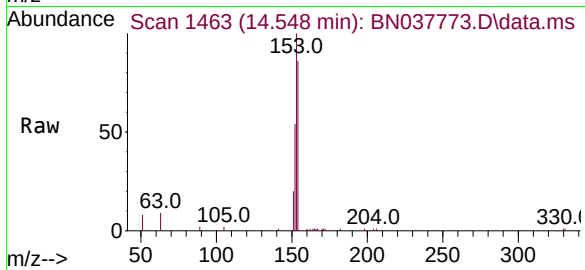




#17
Acenaphthene
Concen: 0.319 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

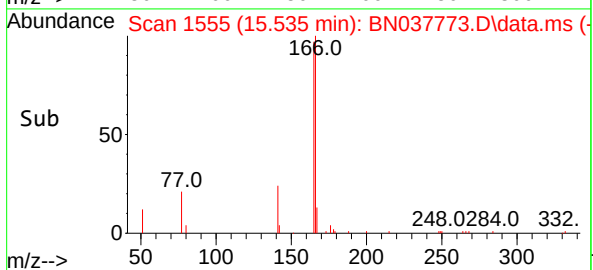
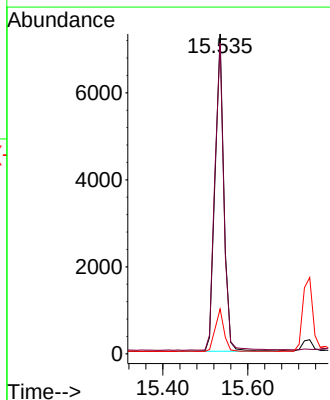
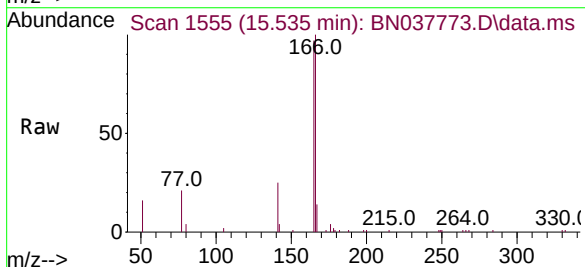
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

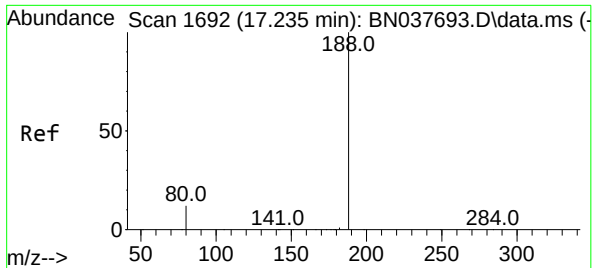
Tgt Ion	154	Resp	8415
Ion Ratio	Lower	Upper	
154	100		
153	114.0	89.8	134.8
152	62.0	50.2	75.2



#18
Fluorene
Concen: 0.314 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	166	Resp	10028
Ion Ratio	Lower	Upper	
166	100		
165	99.6	79.6	119.4
167	14.0	10.6	16.0

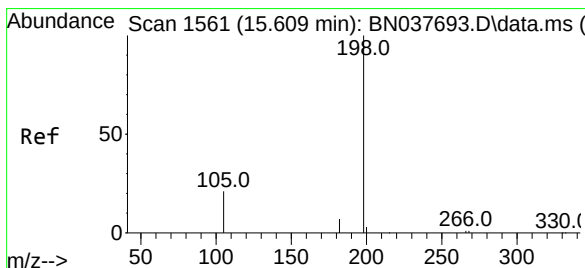
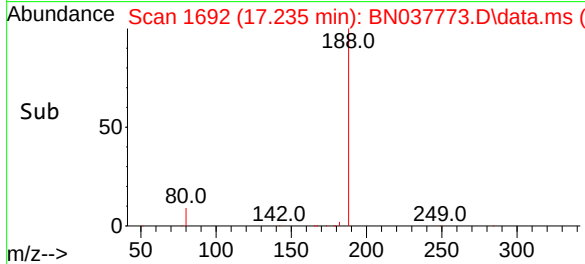
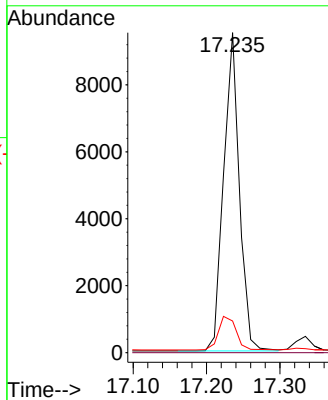
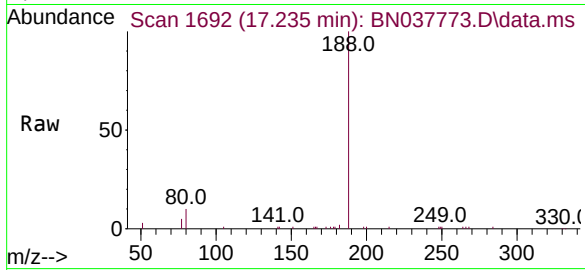




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

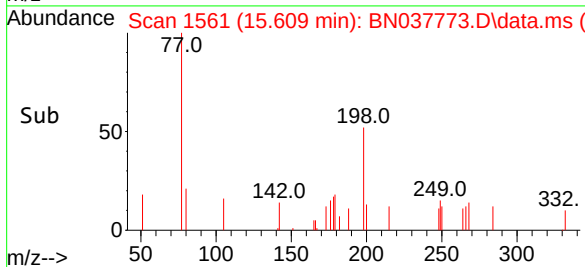
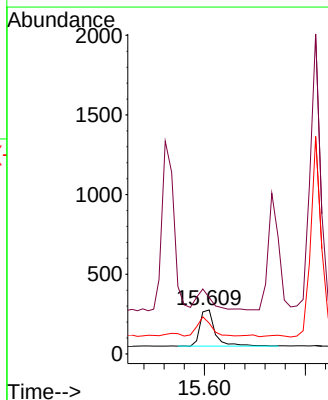
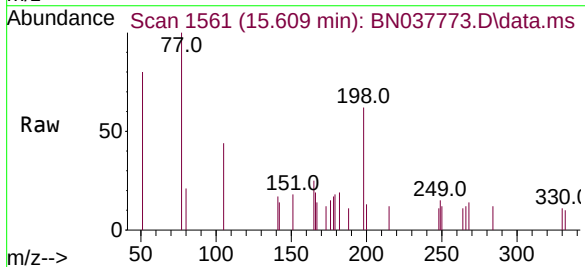
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

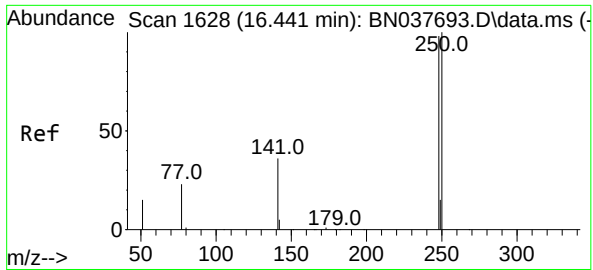
Tgt Ion	188	Resp	14218
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.9	10.6	15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.355 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	198	Resp	468
Ion Ratio	Lower	Upper	
198	100		
51	127.9	95.1	142.7
105	69.9	53.8	80.6

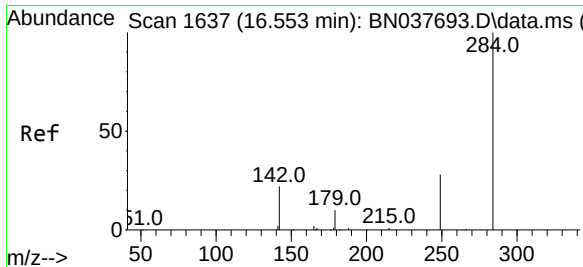
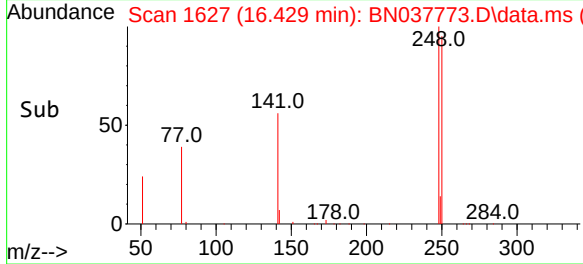
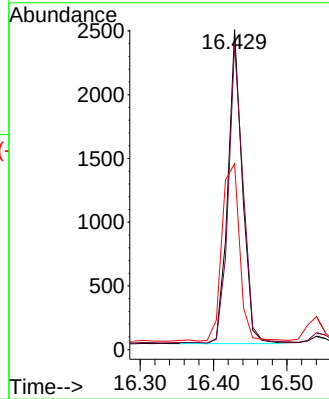
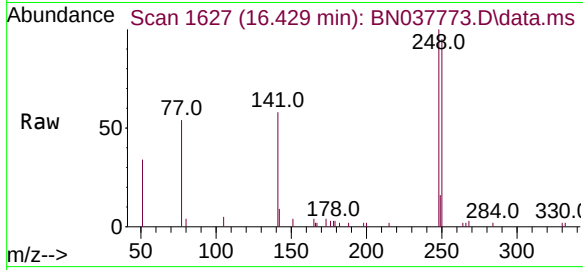




#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 16.429 min Scan# 1627
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

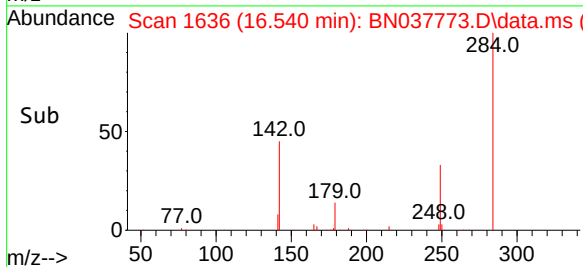
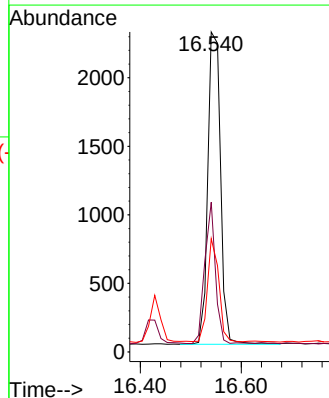
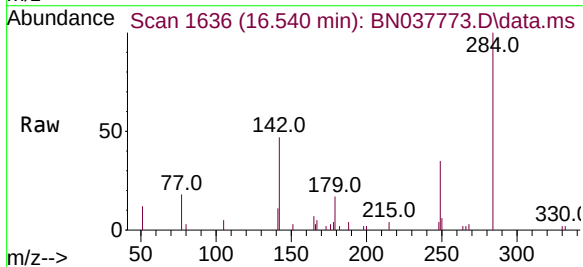
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

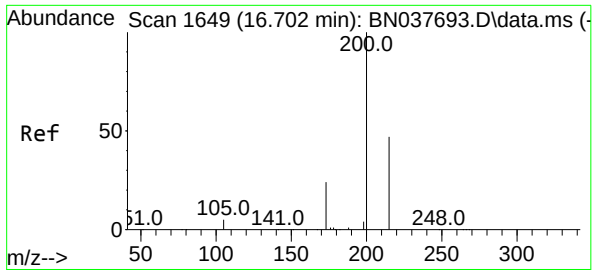
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.5	81.5	122.3
141	58.1	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.9	46.3
249	29.4	24.8	37.2

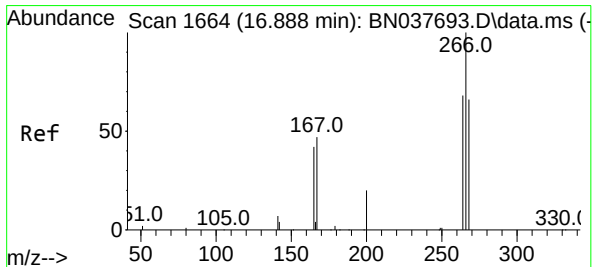
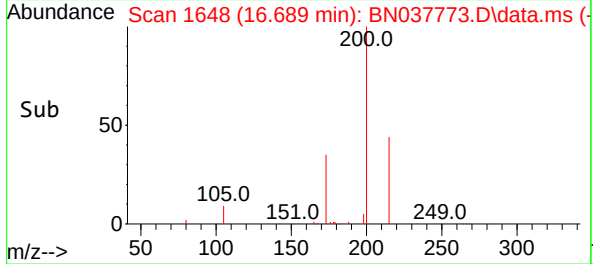
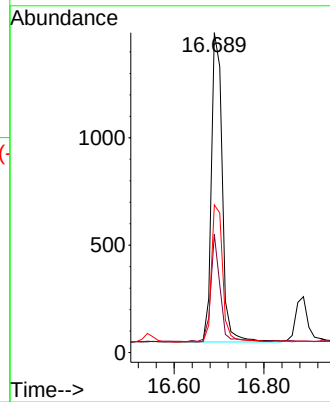
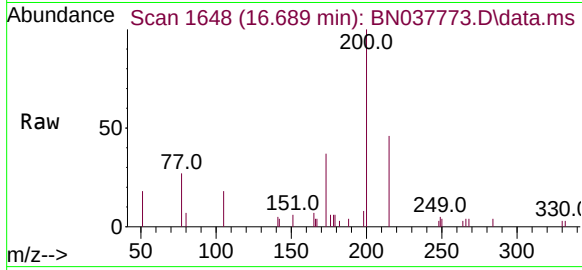




#23
Atrazine
Concen: 0.414 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

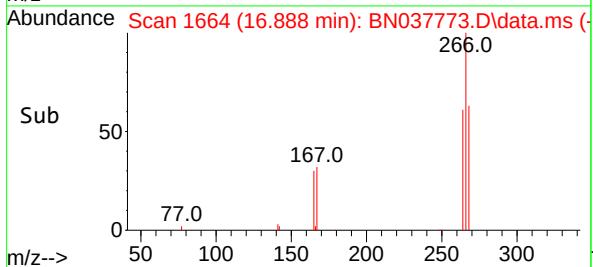
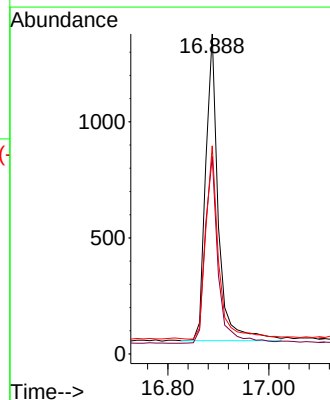
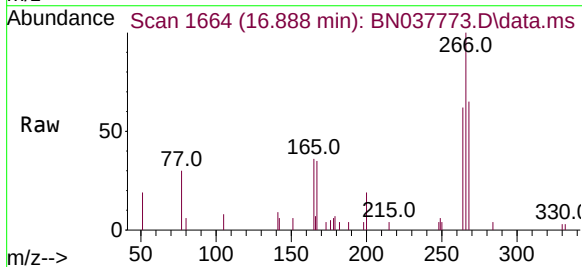
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

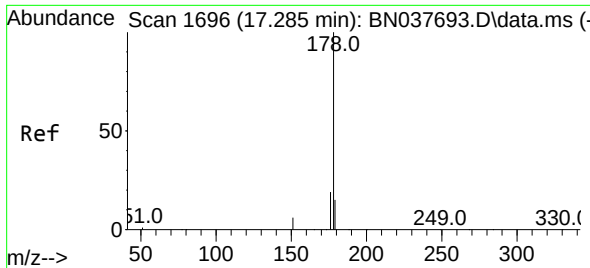
Tgt Ion:200 Resp: 2440
Ion Ratio Lower Upper
200 100
173 37.0 21.4 32.2#
215 46.2 39.2 58.8



#24
Pentachlorophenol
Concen: 0.744 ng
RT: 16.888 min Scan# 1664
Delta R.T. -0.000 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:266 Resp: 2303
Ion Ratio Lower Upper
266 100
264 62.2 51.6 77.4
268 64.2 53.2 79.8

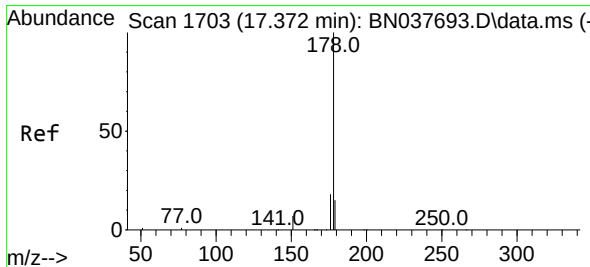
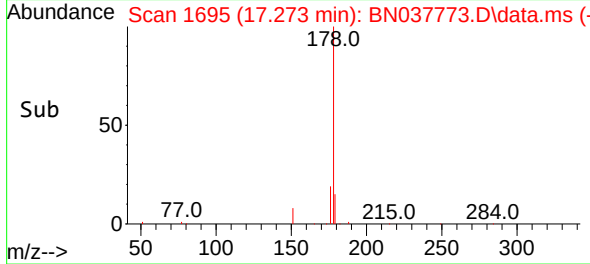
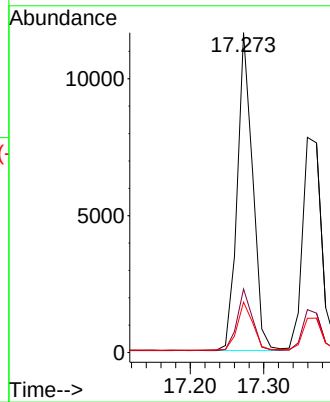
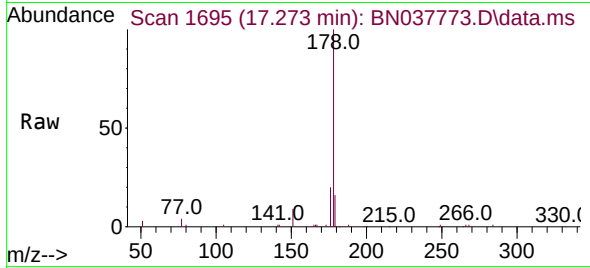




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

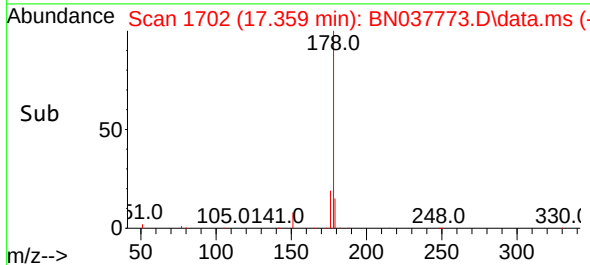
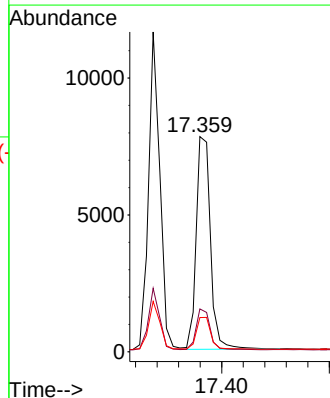
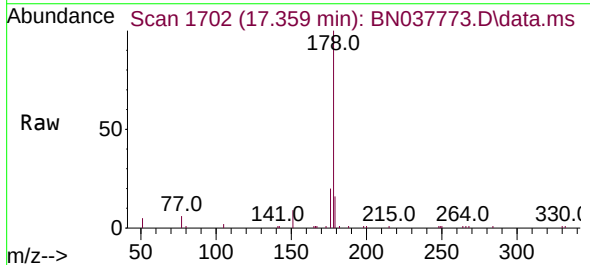
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

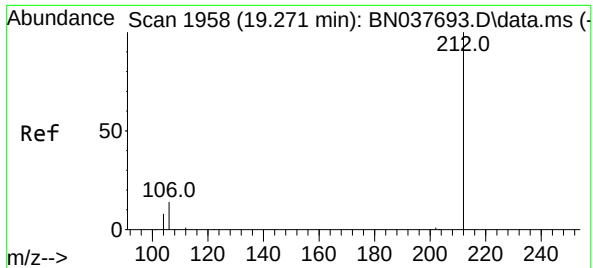
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.8	12.2	18.2



#26
Anthracene
Concen: 0.359 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.2	12.2	18.4

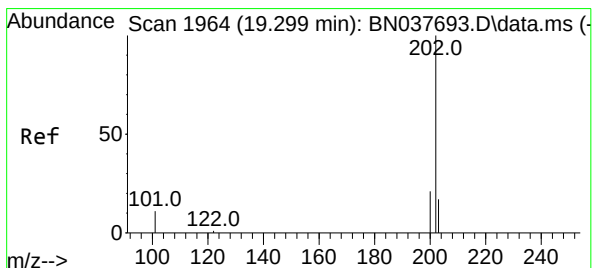
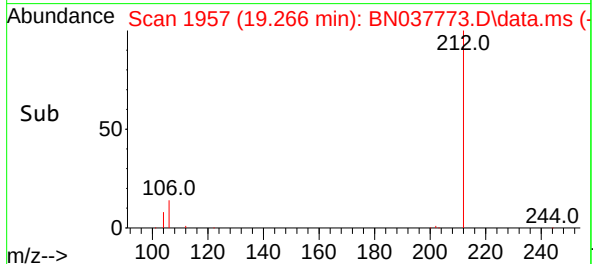
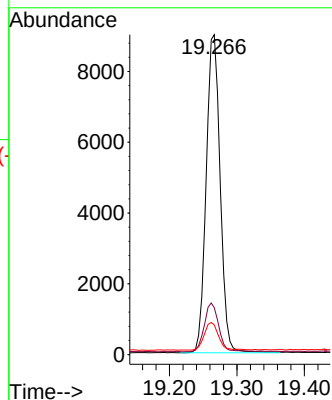
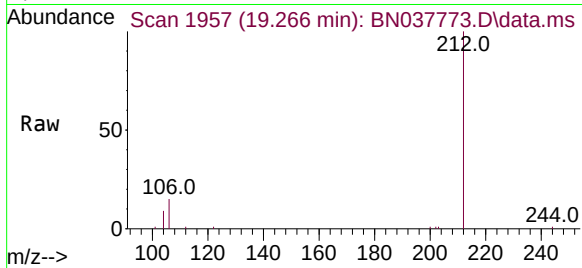




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.266 min Scan# 1958
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

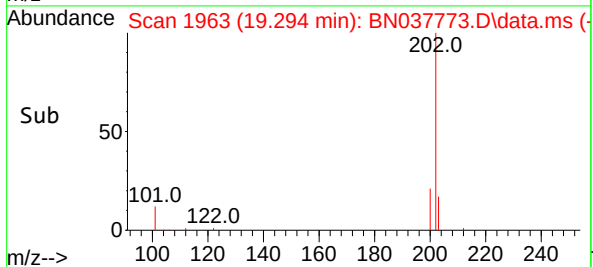
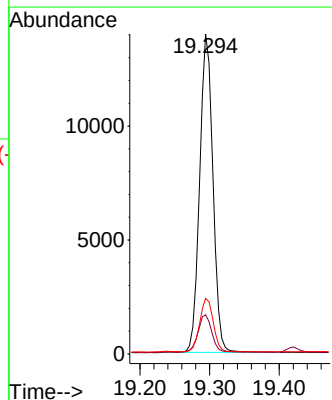
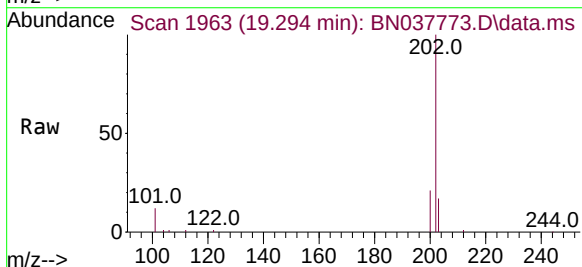
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

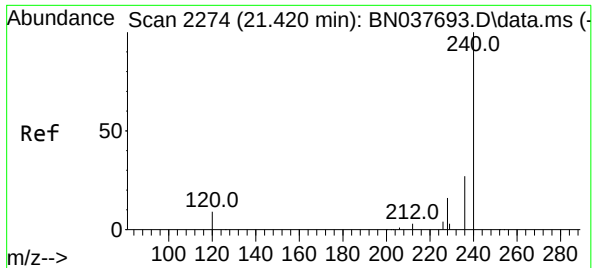
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	8.7	6.9	10.3



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.3	13.9
203	17.2	13.7	20.5

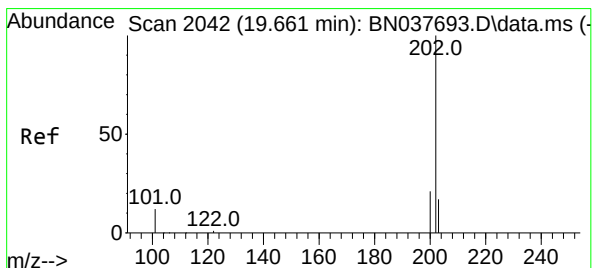
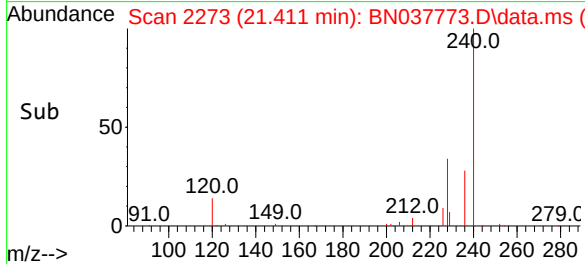
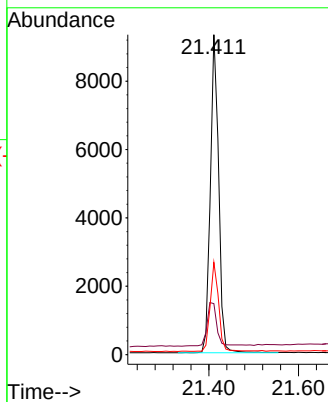
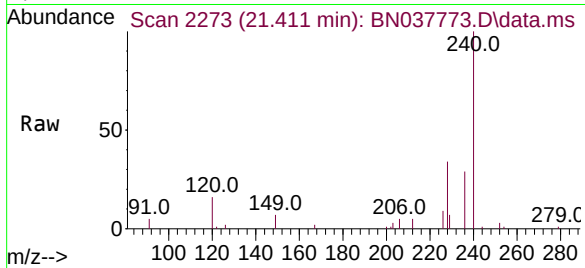




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

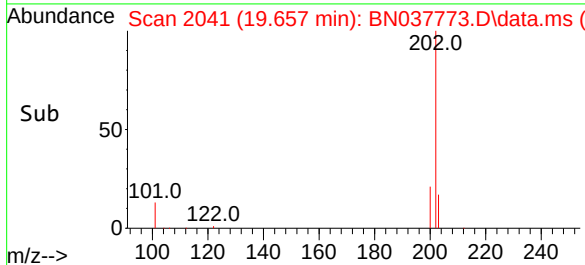
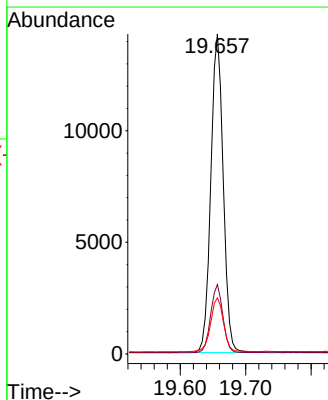
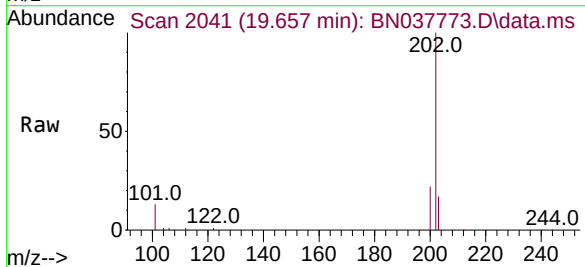
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

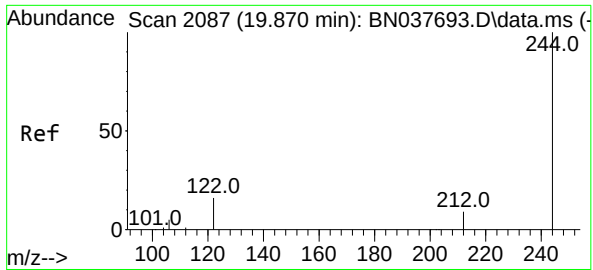
Tgt Ion:240 Resp: 11982
Ion Ratio Lower Upper
240 100
120 15.9 9.2 13.8#
236 28.8 22.6 33.8



#30
Pyrene
Concen: 0.400 ng
RT: 19.657 min Scan# 2041
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:202 Resp: 18763
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.3 21.5

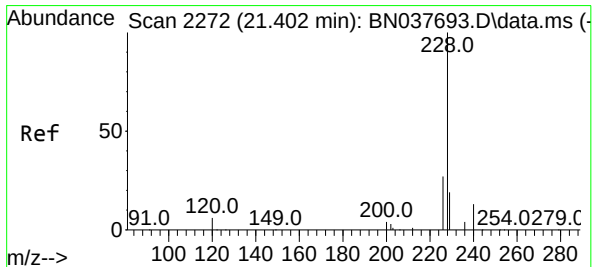
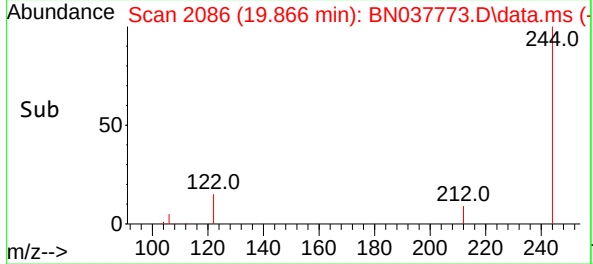
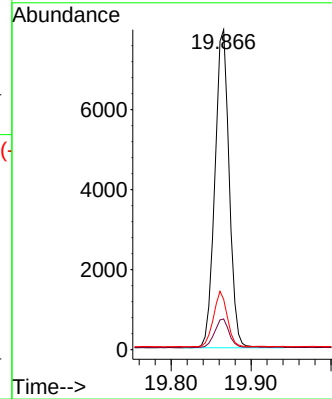
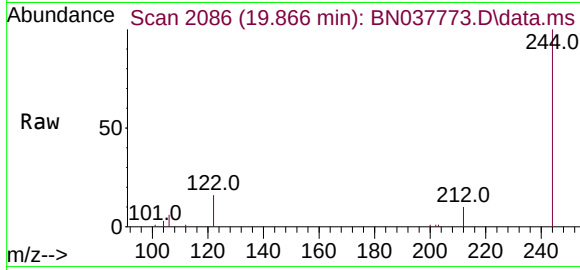




#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.866 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

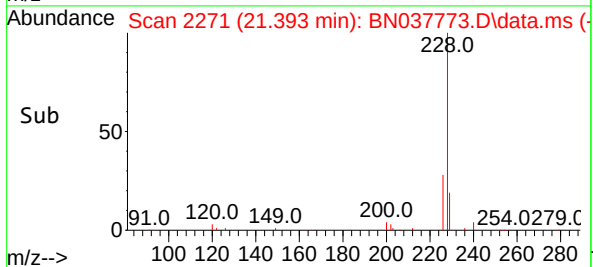
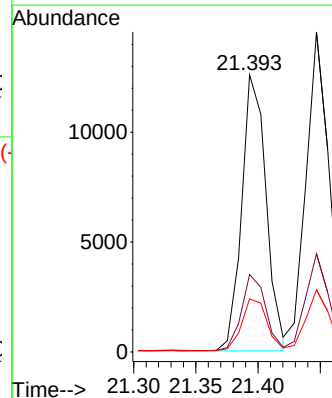
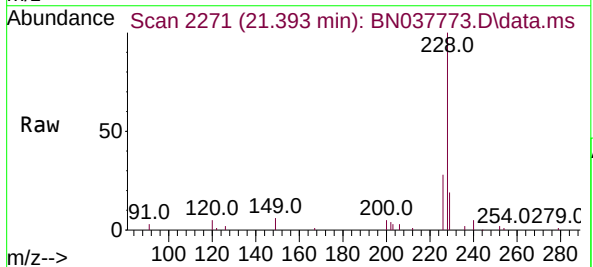
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

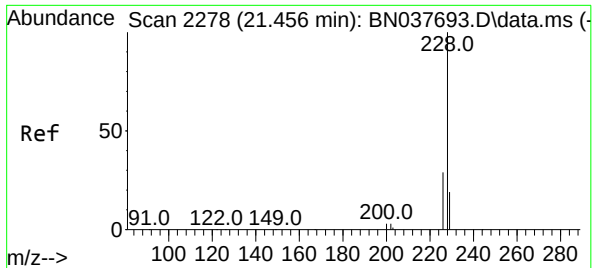
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.5	11.3
122	15.7	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.393 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.2	15.8	23.6

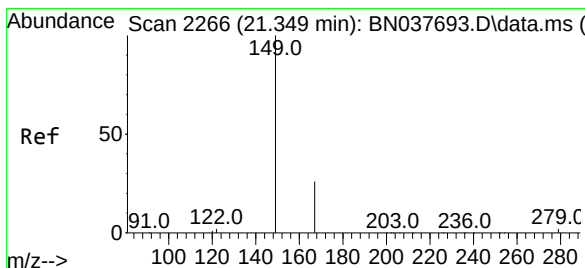
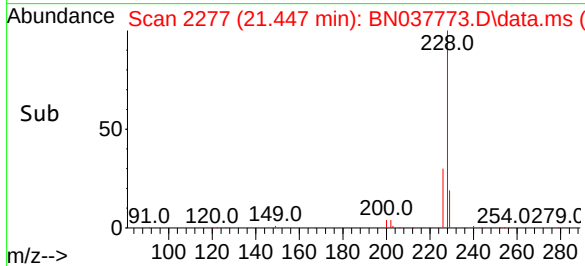
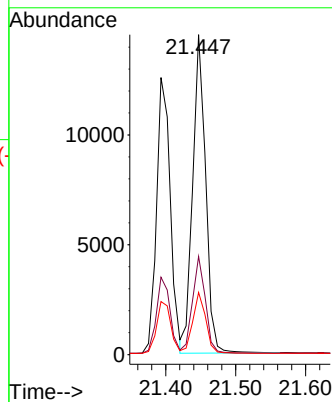
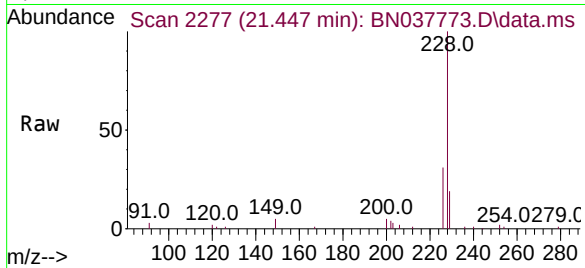




#33
Chrysene
Concen: 0.418 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

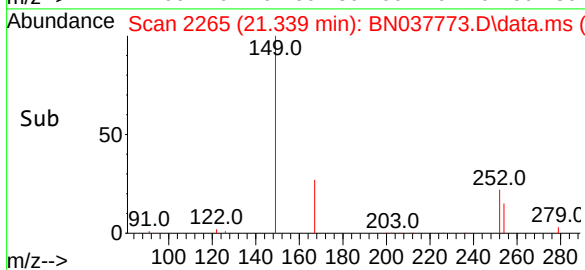
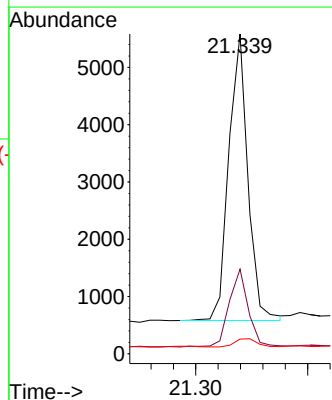
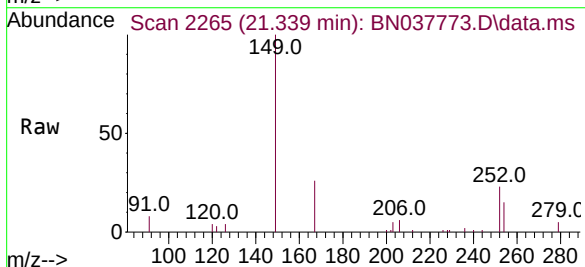
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

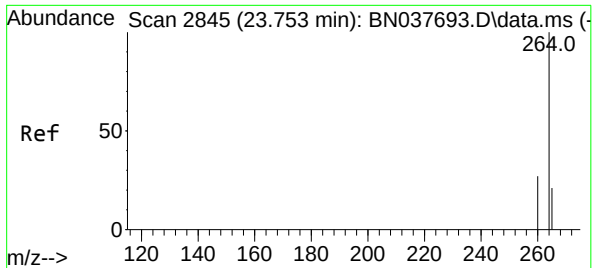
Tgt Ion:	228	Resp:	18729
Ion Ratio	Lower	Upper	
228	100		
226	30.7	23.5	35.3
229	19.4	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.477 ng
RT: 21.339 min Scan# 2265
Delta R.T. -0.009 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

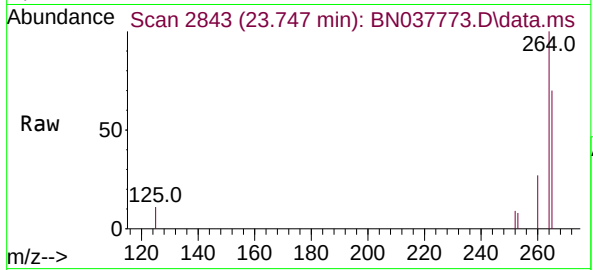
Tgt Ion:	149	Resp:	5916
Ion Ratio	Lower	Upper	
149	100		
167	26.2	20.8	31.2
279	3.4	3.3	4.9



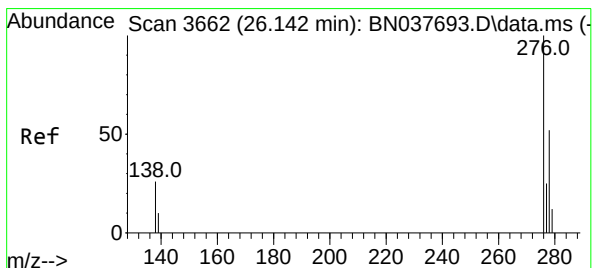
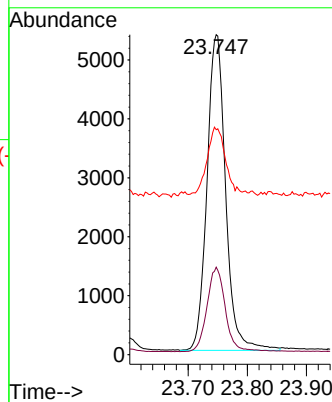
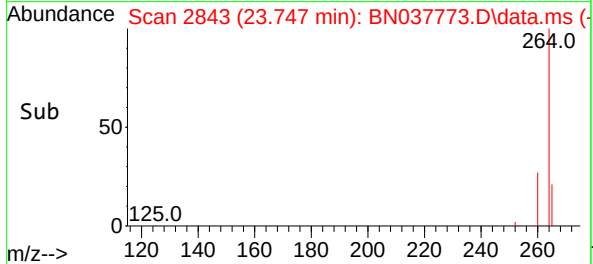


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.747 min Scan# 2843
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

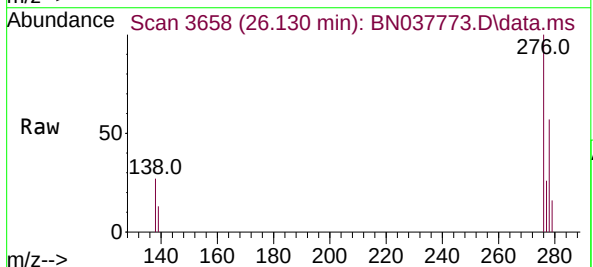
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD



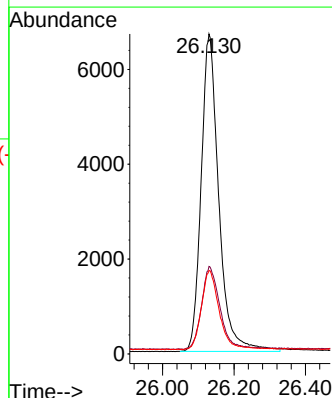
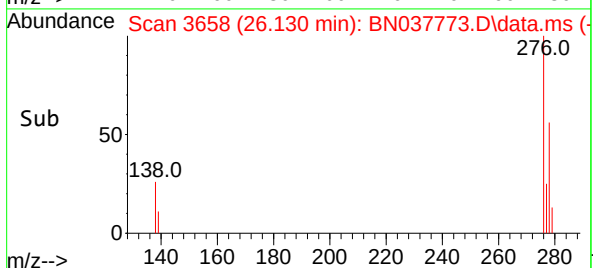
Tgt Ion:264 Resp: 11726
Ion Ratio Lower Upper
264 100
260 27.3 21.8 32.8
265 70.3 39.4 59.2#

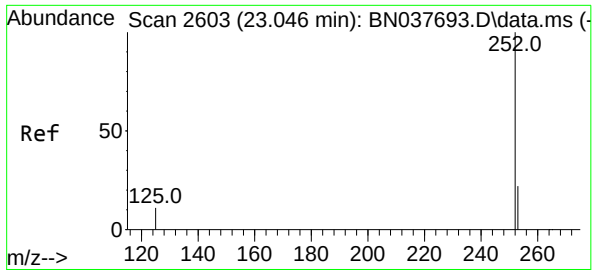


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.465 ng
RT: 26.130 min Scan# 3658
Delta R.T. -0.012 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25



Tgt Ion:276 Resp: 22920
Ion Ratio Lower Upper
276 100
138 26.8 21.9 32.9
277 25.2 20.1 30.1

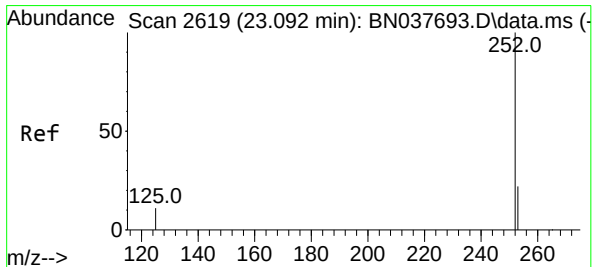
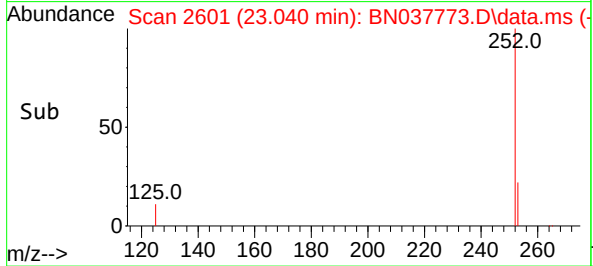
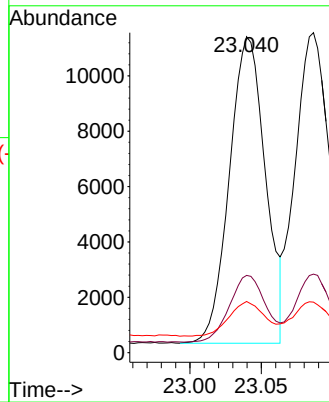
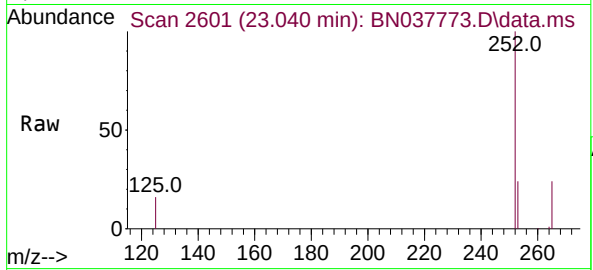




#37
Benzo(b)fluoranthene
Concen: 0.420 ng
RT: 23.040 min Scan# 2603
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

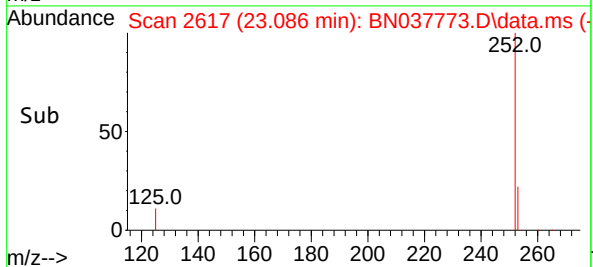
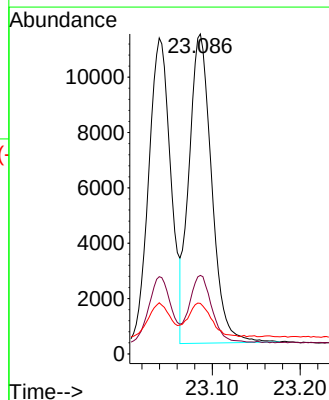
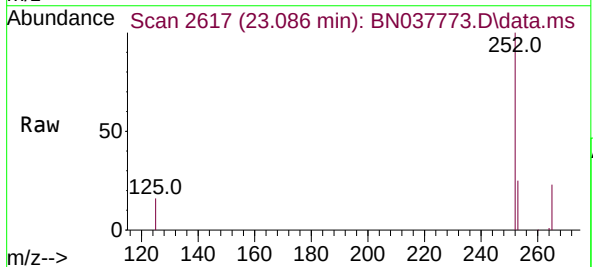
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250911MSD

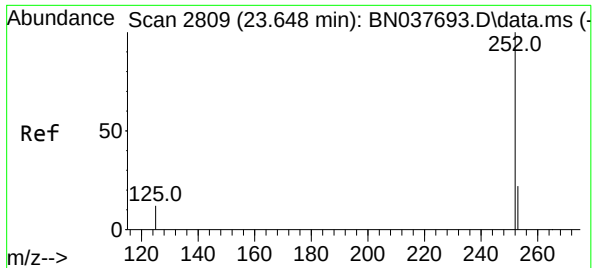
Tgt Ion:252 Resp: 19407
Ion Ratio Lower Upper
252 100
253 24.4 19.4 29.2
125 16.2 11.2 16.8



#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 23.086 min Scan# 2617
Delta R.T. -0.006 min
Lab File: BN037773.D
Acq: 18 Sep 2025 12:25

Tgt Ion:252 Resp: 19956
Ion Ratio Lower Upper
252 100
253 24.5 19.4 29.0
125 15.8 11.6 17.4





#39

Benzo(a)pyrene

Concen: 0.426 ng

RT: 23.642 min Scan# 2807

Delta R.T. -0.006 min

Lab File: BN037773.D

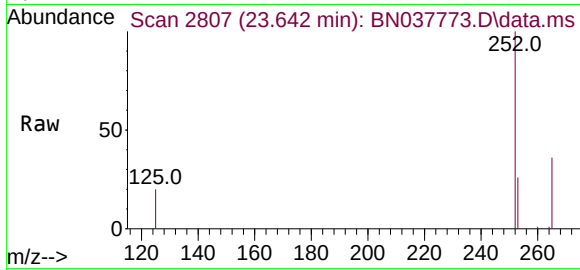
Acq: 18 Sep 2025 12:25

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MSD



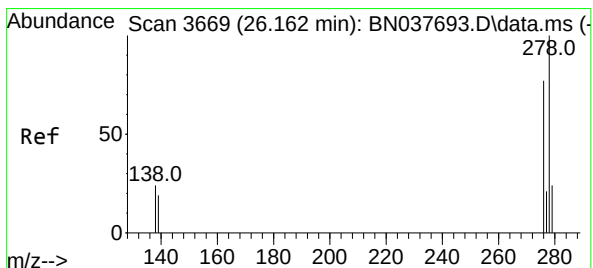
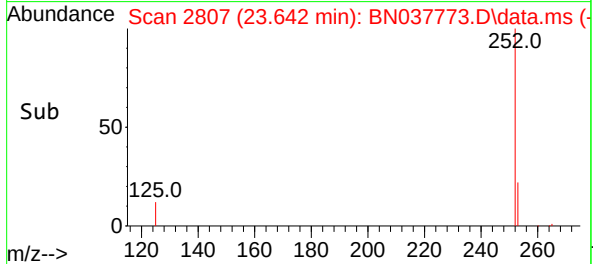
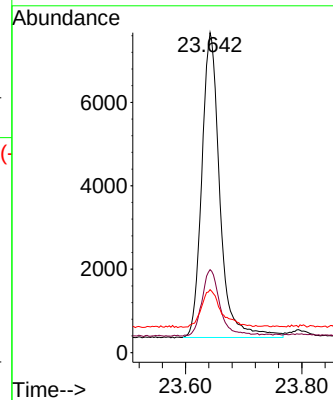
Tgt Ion:252 Resp: 15734

Ion Ratio Lower Upper

252 100

253 25.9 20.8 31.2

125 19.7 13.9 20.9



#40

Dibenzo(a,h)anthracene

Concen: 0.455 ng

RT: 26.148 min Scan# 3664

Delta R.T. -0.015 min

Lab File: BN037773.D

Acq: 18 Sep 2025 12:25

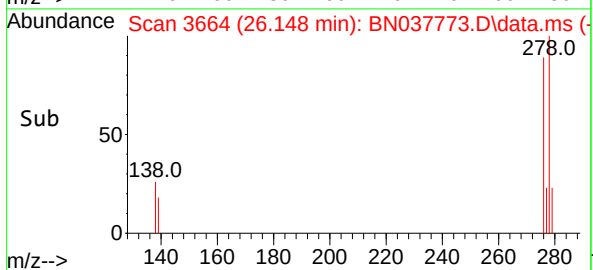
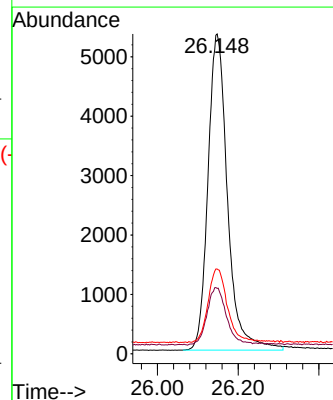
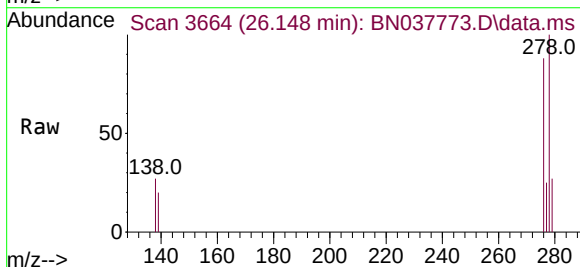
Tgt Ion:278 Resp: 17896

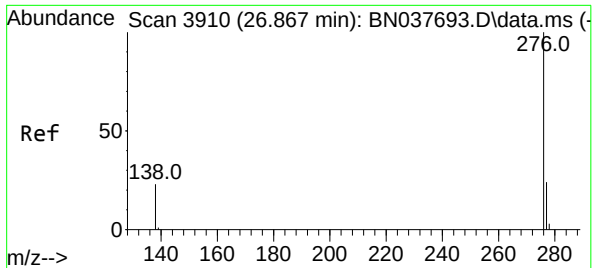
Ion Ratio Lower Upper

278 100

139 20.5 17.8 26.6

279 26.5 22.0 33.0





#41

Benzo(g,h,i)perylene

Concen: 0.433 ng

RT: 26.855 min Scan# 3910

Delta R.T. -0.012 min

Lab File: BN037773.D

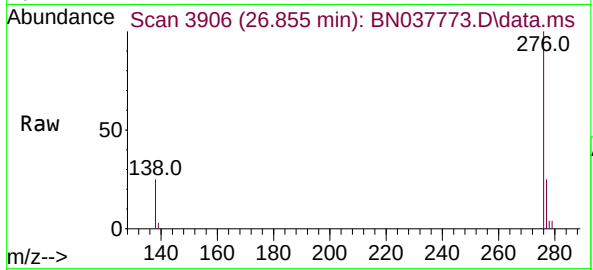
Acq: 18 Sep 2025 12:25

Instrument :

BNA_N

ClientSampleId :

RE103D2-20250911MSD



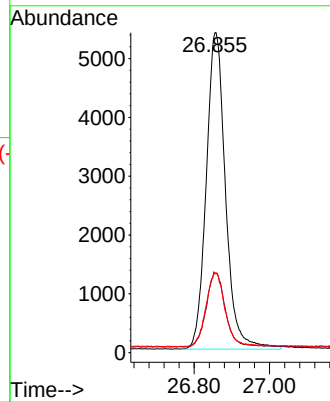
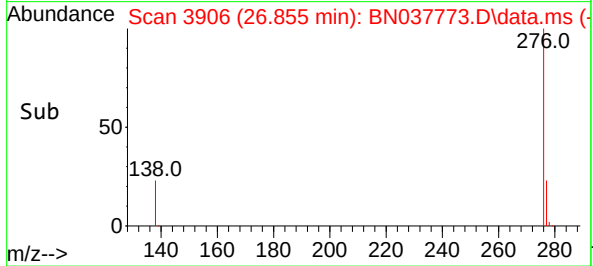
Tgt Ion:276 Resp: 19134

Ion Ratio Lower Upper

276 100

277 24.9 20.6 31.0

138 24.5 20.2 30.2



Manual Integration Report

Sequence:	BN091125	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037692.D	Benzo(k)fluoranthene	Rahul	9/12/2025 8:44:30 AM	Jagrut	9/12/2025 11:51:26 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN091725

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	BN091825	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169693BS	BN037792.D	Benzo(k)fluoranthene	Rahul	9/19/2025 8:46:42 AM	mohammad	9/23/2025 2:07:38 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN091925	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

BN092225

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



Manual Integration Report

Sequence:	BN092325	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	BN092425	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	BN092525	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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	BN037689.D	11 Sep 2025 07:54	RC/JU	Ok
2	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	RC/JU	Ok
3	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56	RC/JU	Ok
4	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32	RC/JU	Ok,M
5	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08	RC/JU	Ok
6	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44	RC/JU	Ok
7	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20	RC/JU	Ok
8	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56	RC/JU	Ok
9	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	RC/JU	Ok
10	SSTDICV0.4	BN037698.D	11 Sep 2025 14:09	RC/JU	Ok
11	PB169529BL	BN037699.D	11 Sep 2025 14:45	RC/JU	Ok
12	Q2893-03	BN037700.D	11 Sep 2025 15:21	RC/JU	Ok
13	Q2893-03	BN037701.D	11 Sep 2025 15:58	RC/JU	Ok
14	Q2893-09	BN037702.D	11 Sep 2025 16:34	RC/JU	Ok
15	Q2893-09	BN037703.D	11 Sep 2025 17:10	RC/JU	Ok
16	PB169527BL	BN037704.D	11 Sep 2025 17:47	RC/JU	Ok
17	SSTDCCC0.4	BN037705.D	11 Sep 2025 18:23	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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	BN037739.D	17 Sep 2025 10:46	RC/JU	Ok
2	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25	RC/JU	Ok
3	PB169692BL	BN037741.D	17 Sep 2025 12:02	RC/JU	Ok
4	Q3095-05	BN037742.D	17 Sep 2025 12:38	RC/JU	Ok
5	Q3095-06MS	BN037743.D	17 Sep 2025 13:14	RC/JU	Ok
6	Q3095-07MSD	BN037744.D	17 Sep 2025 13:59	RC/JU	Ok
7	Q3086-01	BN037745.D	17 Sep 2025 14:35	RC/JU	Ok
8	Q3086-02	BN037746.D	17 Sep 2025 15:11	RC/JU	Ok
9	Q3095-01	BN037747.D	17 Sep 2025 15:47	RC/JU	Ok
10	Q3095-02	BN037748.D	17 Sep 2025 16:24	RC/JU	Ok
11	Q3095-03	BN037749.D	17 Sep 2025 17:00	RC/JU	Dilution
12	Q3095-04	BN037750.D	17 Sep 2025 17:36	RC/JU	Ok
13	Q3095-08	BN037751.D	17 Sep 2025 18:13	RC/JU	Ok
14	Q3095-09	BN037752.D	17 Sep 2025 18:49	RC/JU	Ok
15	Q3095-10	BN037753.D	17 Sep 2025 19:25	RC/JU	Ok
16	Q3095-11	BN037754.D	17 Sep 2025 20:01	RC/JU	Ok
17	Q3095-13	BN037755.D	17 Sep 2025 20:37	RC/JU	Ok
18	SP6870	BN037756.D	17 Sep 2025 21:13	RC/JU	Ok
19	SSTDCCC0.4	BN037757.D	17 Sep 2025 21:50	RC/JU	Ok
20	DFTPP	BN037758.D	18 Sep 2025 02:06	RC/JU	Ok
21	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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			

22	PB169692BL	BN037760.D	18 Sep 2025 03:22	RC/JU	Ok
23	Q3095-12	BN037761.D	18 Sep 2025 03:58	RC/JU	Ok
24	Q3095-14	BN037762.D	18 Sep 2025 04:34	RC/JU	Ok
25	Q3095-15	BN037763.D	18 Sep 2025 05:10	RC/JU	Ok
26	Q3095-16	BN037764.D	18 Sep 2025 05:46	RC/JU	Ok
27	Q3095-17	BN037765.D	18 Sep 2025 06:23	RC/JU	Ok
28	Q3095-18	BN037766.D	18 Sep 2025 06:59	RC/JU	Ok
29	Q3095-19	BN037767.D	18 Sep 2025 07:35	RC/JU	Ok
30	Q3095-20	BN037768.D	18 Sep 2025 08:11	RC/JU	Ok
31	Q3097-07	BN037769.D	18 Sep 2025 08:47	RC/JU	Ok
32	Q3097-08	BN037770.D	18 Sep 2025 09:23	RC/JU	Dilution
33	Q3097-01	BN037771.D	18 Sep 2025 10:00	RC/JU	Ok
34	Q3097-02MS	BN037772.D	18 Sep 2025 11:48	RC/JU	Ok
35	Q3097-03MSD	BN037773.D	18 Sep 2025 12:25	RC/JU	Ok
36	SSTDCCC0.4	BN037774.D	18 Sep 2025 13:16	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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	BN037775.D	18 Sep 2025 13:53	RC/JU	Ok
2	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32	RC/JU	Ok
3	PB169693BL	BN037777.D	18 Sep 2025 15:10	RC/JU	Ok
4	Q3097-09	BN037778.D	18 Sep 2025 15:47	RC/JU	Ok
5	Q3097-04	BN037779.D	18 Sep 2025 16:23	RC/JU	Ok
6	Q3097-05	BN037780.D	18 Sep 2025 17:00	RC/JU	Ok
7	Q3097-06	BN037781.D	18 Sep 2025 17:36	RC/JU	Ok
8	Q3083-03	BN037782.D	18 Sep 2025 18:12	RC/JU	Dilution
9	Q3095-21	BN037783.D	18 Sep 2025 18:49	RC/JU	Ok
10	Q3095-22	BN037784.D	18 Sep 2025 19:25	RC/JU	Ok
11	Q3095-23	BN037785.D	18 Sep 2025 20:02	RC/JU	Ok
12	Q3095-24	BN037786.D	18 Sep 2025 20:38	RC/JU	Ok
13	Q3095-25	BN037787.D	18 Sep 2025 21:14	RC/JU	Ok
14	Q3095-26	BN037788.D	18 Sep 2025 21:51	RC/JU	Ok
15	Q3095-03DL	BN037789.D	18 Sep 2025 22:27	RC/JU	Ok
16	Q3097-08DL	BN037790.D	18 Sep 2025 23:03	RC/JU	Ok
17	PB169692BS	BN037791.D	18 Sep 2025 23:40	RC/JU	Ok
18	PB169693BS	BN037792.D	19 Sep 2025 00:16	RC/JU	Ok,M
19	SSTDCCC0.4	BN037793.D	19 Sep 2025 00:52	RC/JU	Ok
20	DFTPP	BN037794.D	19 Sep 2025 02:08	RC/JU	Ok
21	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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			

22	PB169692BL	BN037796.D	19 Sep 2025 03:24	RC/JU	Ok
23	Q3095-29	BN037797.D	19 Sep 2025 04:00	RC/JU	Ok
24	Q3095-30	BN037798.D	19 Sep 2025 04:37	RC/JU	Ok
25	Q3095-31	BN037799.D	19 Sep 2025 05:13	RC/JU	Ok
26	Q3095-32	BN037800.D	19 Sep 2025 05:49	RC/JU	Ok
27	Q3097-10	BN037801.D	19 Sep 2025 06:25	RC/JU	Ok
28	Q3097-11	BN037802.D	19 Sep 2025 07:01	RC/JU	Ok
29	Q3097-12	BN037803.D	19 Sep 2025 07:37	RC/JU	Ok
30	Q3097-13	BN037804.D	19 Sep 2025 08:13	RC/JU	Dilution
31	Q3097-14	BN037805.D	19 Sep 2025 08:49	RC/JU	Ok
32	Q3097-15	BN037806.D	19 Sep 2025 09:25	RC/JU	Ok
33	Q3097-19	BN037807.D	19 Sep 2025 10:02	RC/JU	Dilution
34	Q3127-13	BN037808.D	19 Sep 2025 10:38	RC/JU	Ok
35	Q3127-14MS	BN037809.D	19 Sep 2025 11:50	RC/JU	Ok,M
36	Q3127-15MSD	BN037810.D	19 Sep 2025 12:27	RC/JU	Ok,M
37	SSTDCCC0.4	BN037811.D	19 Sep 2025 13:03	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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	BN037812.D	19 Sep 2025 13:39	RC/JU	Ok
2	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19	RC/JU	Ok
3	PB169743BL	BN037814.D	19 Sep 2025 14:55	RC/JU	Ok
4	Q3095-27	BN037815.D	19 Sep 2025 15:32	RC/JU	Ok
5	Q3083-03DL	BN037816.D	19 Sep 2025 16:08	RC/JU	Ok
6	Q3097-13DL	BN037817.D	19 Sep 2025 16:45	RC/JU	Ok
7	Q3097-19DL	BN037818.D	19 Sep 2025 17:21	RC/JU	Ok
8	Q3097-21	BN037819.D	19 Sep 2025 17:58	RC/JU	Ok
9	Q3097-22	BN037820.D	19 Sep 2025 18:34	RC/JU	Ok
10	Q3097-23	BN037821.D	19 Sep 2025 19:11	RC/JU	Ok
11	Q3097-24	BN037822.D	19 Sep 2025 19:47	RC/JU	Dilution
12	Q3097-25	BN037823.D	19 Sep 2025 20:24	RC/JU	Dilution
13	Q3097-26	BN037824.D	19 Sep 2025 21:00	RC/JU	Ok
14	Q3127-01	BN037825.D	19 Sep 2025 21:37	RC/JU	Ok
15	Q3127-02	BN037826.D	19 Sep 2025 22:13	RC/JU	Dilution
16	Q3127-03	BN037827.D	19 Sep 2025 22:50	RC/JU	Dilution
17	Q3127-04	BN037828.D	19 Sep 2025 23:26	RC/JU	Dilution
18	PB169743BS	BN037829.D	20 Sep 2025 00:03	RC/JU	Ok
19	SSTDCCC0.4	BN037830.D	20 Sep 2025 00:39	RC/JU	Ok
20	DFTPP	BN037831.D	20 Sep 2025 01:16	RC/JU	Ok
21	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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			

22	PB169743BL	BN037833.D	20 Sep 2025 03:12	RC/JU	Ok
23	Q3127-05	BN037834.D	20 Sep 2025 03:48	RC/JU	Ok
24	Q3127-06	BN037835.D	20 Sep 2025 04:25	RC/JU	Ok
25	Q3127-07	BN037836.D	20 Sep 2025 05:01	RC/JU	Ok
26	Q3127-08	BN037837.D	20 Sep 2025 05:37	RC/JU	Dilution
27	Q3127-09	BN037838.D	20 Sep 2025 06:13	RC/JU	Ok
28	Q3127-10	BN037839.D	20 Sep 2025 06:50	RC/JU	Ok
29	Q3127-11	BN037840.D	20 Sep 2025 07:26	RC/JU	Ok
30	Q3127-12	BN037841.D	20 Sep 2025 08:02	RC/JU	Ok
31	Q3127-16	BN037842.D	20 Sep 2025 08:38	RC/JU	Dilution
32	Q3095-28	BN037843.D	20 Sep 2025 09:14	RC/JU	Ok
33	Q3097-20	BN037844.D	20 Sep 2025 09:51	RC/JU	Dilution
34	Q3127-18	BN037845.D	20 Sep 2025 10:27	RC/JU	Ok
35	Q3127-19	BN037846.D	20 Sep 2025 11:03	RC/JU	Ok
36	SSTDCCC0.4	BN037847.D	20 Sep 2025 11:39	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM
SubDirectory	BN092225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn091125
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	BN037848.D	22 Sep 2025 08:59	RC/JU	Ok
2	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19	RC/JU	Ok
3	PB169743BL	BN037850.D	22 Sep 2025 10:55	RC/JU	Ok
4	Q3097-24DL	BN037851.D	22 Sep 2025 11:31	RC/JU	Ok
5	Q3097-25DL	BN037852.D	22 Sep 2025 12:08	RC/JU	Ok
6	Q3127-02DL	BN037853.D	22 Sep 2025 12:44	RC/JU	Ok
7	Q3127-03DL	BN037854.D	22 Sep 2025 13:20	RC/JU	Ok
8	Q3127-04DL	BN037855.D	22 Sep 2025 13:56	RC/JU	Ok
9	Q3127-08DL	BN037856.D	22 Sep 2025 14:33	RC/JU	Ok
10	Q3127-16DL	BN037857.D	22 Sep 2025 15:09	RC/JU	Ok
11	Q3097-20DL	BN037858.D	22 Sep 2025 15:45	RC/JU	Ok
12	SSTDCCC0.4	BN037859.D	22 Sep 2025 16:39	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	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037860.D	23 Sep 2025 11:33	RC/JU	Ok
2	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13	RC/JU	Ok
3	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49	RC/JU	Ok
4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	RC/JU	Ok
5	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02	RC/JU	Ok
6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38	RC/JU	Ok
7	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15	RC/JU	Ok
8	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	RC/JU	Ok
9	SSTDICV0.4	BN037868.D	23 Sep 2025 16:28	RC/JU	Ok
10	PB169743BL	BN037869.D	23 Sep 2025 17:42	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM
SubDirectory	BN092425	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	BN037870.D	24 Sep 2025 09:15	RC/JU	Ok
2	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54	RC/JU	Ok
3	PB169712BL	BN037872.D	24 Sep 2025 10:32	RC/JU	Ok
4	Q3015-05	BN037873.D	24 Sep 2025 11:08	RC/JU	Dilution
5	Q3015-05DL	BN037874.D	24 Sep 2025 13:36	RC/JU	Dilution
6	Q3015-21	BN037875.D	24 Sep 2025 14:12	RC/JU	Dilution
7	Q3015-21DL	BN037876.D	24 Sep 2025 15:05	RC/JU	Ok
8	Q3015-08	BN037877.D	24 Sep 2025 15:48	RC/JU	Dilution
9	Q3015-08DL	BN037878.D	24 Sep 2025 16:58	RC/JU	Ok
10	PB169712BS	BN037879.D	24 Sep 2025 17:39	RC/JU	Not Ok
11	PB169712BSD	BN037880.D	24 Sep 2025 18:16	RC/JU	Not Ok
12	SSTDCCC0.4	BN037881.D	24 Sep 2025 18:52	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	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	BN037882.D	25 Sep 2025 10:52	RC/JU	Ok
2	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31	RC/JU	Ok
3	PB169793BL	BN037884.D	25 Sep 2025 12:07	RC/JU	Ok
4	PB169712BS	BN037885.D	25 Sep 2025 12:44	RC/JU	Ok
5	PB169793BS	BN037886.D	25 Sep 2025 13:21	RC/JU	Ok
6	PB169793BSD	BN037887.D	25 Sep 2025 13:57	RC/JU	Ok
7	PB169712BSD	BN037888.D	25 Sep 2025 14:34	RC/JU	Ok
8	Q3141-02	BN037889.D	25 Sep 2025 15:11	RC/JU	Ok
9	Q3141-03	BN037890.D	25 Sep 2025 15:48	RC/JU	Ok
10	Q3141-05	BN037891.D	25 Sep 2025 16:24	RC/JU	Ok
11	Q3141-07	BN037892.D	25 Sep 2025 17:01	RC/JU	Ok
12	Q3142-01	BN037893.D	25 Sep 2025 17:38	RC/JU	Ok
13	Q3142-02	BN037894.D	25 Sep 2025 18:15	RC/JU	Ok
14	Q3156-02	BN037895.D	25 Sep 2025 18:51	RC/JU	Ok
15	Q3156-03	BN037896.D	25 Sep 2025 19:28	RC/JU	Ok
16	Q3156-04	BN037897.D	25 Sep 2025 20:05	RC/JU	Ok
17	Q3156-05	BN037898.D	25 Sep 2025 20:41	RC/JU	Dilution
18	Q3156-06	BN037899.D	25 Sep 2025 21:18	RC/JU	Dilution
19	Q3156-07	BN037900.D	25 Sep 2025 21:54	RC/JU	Dilution
20	SSTDCCC0.4	BN037901.D	25 Sep 2025 22:31	RC/JU	Ok
21	DFTPP	BN037902.D	25 Sep 2025 23:47	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	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			

22	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27	RC/JU	Ok
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M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091125

Review By	Rahul	Review On	9/12/2025 10:21:18 AM
Supervise By	Jagrut	Supervise On	9/12/2025 11:52:20 AM
SubDirectory	BN091125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

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	BN037689.D	11 Sep 2025 07:54		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037690.D	11 Sep 2025 09:20	A Fresh Calibration is required.	RC/JU	Ok
3	SSTDICC0.1	SSTDICC0.1	BN037691.D	11 Sep 2025 09:56		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037692.D	11 Sep 2025 10:32		RC/JU	Ok,M
5	SSTDICCC0.4	SSTDICCC0.4	BN037693.D	11 Sep 2025 11:08		RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037694.D	11 Sep 2025 11:44		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037695.D	11 Sep 2025 12:20		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037696.D	11 Sep 2025 12:56		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037697.D	11 Sep 2025 13:33	Compound#14,20 removed from 5 ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN091125	BN037698.D	11 Sep 2025 14:09		RC/JU	Ok
11	PB169529BL	PB169529BL	BN037699.D	11 Sep 2025 14:45		RC/JU	Ok
12	Q2893-03	MDL-SOIL-03-QT3-202	BN037700.D	11 Sep 2025 15:21	MDL-SOIL -0.1 ppm	RC/JU	Ok
13	Q2893-03	MDL-SOIL-03-QT3-202	BN037701.D	11 Sep 2025 15:58	MDL-SOIL -0.2 ppm	RC/JU	Ok
14	Q2893-09	MDL-WATER-03-QT3-2	BN037702.D	11 Sep 2025 16:34	MDL-WATER -0.1 ppm	RC/JU	Ok
15	Q2893-09	MDL-WATER-03-QT3-2	BN037703.D	11 Sep 2025 17:10	MDL-WATER -0.2 ppm	RC/JU	Ok
16	PB169527BL	PB169527BL	BN037704.D	11 Sep 2025 17:47		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037705.D	11 Sep 2025 18:23		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

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	BN037739.D	17 Sep 2025 10:46		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037740.D	17 Sep 2025 11:25		RC/JU	Ok
3	PB169692BL	PB169692BL	BN037741.D	17 Sep 2025 12:02		RC/JU	Ok
4	Q3095-05	MW203D2-20250909	BN037742.D	17 Sep 2025 12:38		RC/JU	Ok
5	Q3095-06MS	MW203D2-20250909M	BN037743.D	17 Sep 2025 13:14		RC/JU	Ok
6	Q3095-07MSD	MW203D2-20250909M	BN037744.D	17 Sep 2025 13:59		RC/JU	Ok
7	Q3086-01	RW8-SP100-20250911	BN037745.D	17 Sep 2025 14:35		RC/JU	Ok
8	Q3086-02	RW8-SP303-20250911	BN037746.D	17 Sep 2025 15:11		RC/JU	Ok
9	Q3095-01	MW305I-20250908	BN037747.D	17 Sep 2025 15:47		RC/JU	Ok
10	Q3095-02	MW179D-20250908	BN037748.D	17 Sep 2025 16:24		RC/JU	Ok
11	Q3095-03	MW201D-20250908	BN037749.D	17 Sep 2025 17:00	Need 2X Dilution	RC/JU	Dilution
12	Q3095-04	MW179D1-20250908	BN037750.D	17 Sep 2025 17:36		RC/JU	Ok
13	Q3095-08	MW203D1-20250909	BN037751.D	17 Sep 2025 18:13		RC/JU	Ok
14	Q3095-09	MW179D2-20250909	BN037752.D	17 Sep 2025 18:49		RC/JU	Ok
15	Q3095-10	MW201D1-20250909	BN037753.D	17 Sep 2025 19:25		RC/JU	Ok
16	Q3095-11	RE122D1-20250909	BN037754.D	17 Sep 2025 20:01		RC/JU	Ok
17	Q3095-13	MW178I1-20250909	BN037755.D	17 Sep 2025 20:37		RC/JU	Ok
18	SP6870	SP6870	BN037756.D	17 Sep 2025 21:13		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091725

Review By	Rahul	Review On	9/18/2025 2:11:37 PM
Supervise By	Jagrut	Supervise On	9/18/2025 5:21:45 PM
SubDirectory	BN091725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
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			

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037757.D	17 Sep 2025 21:50		RC/JU	Ok
20	DFTPP	DFTPP	BN037758.D	18 Sep 2025 02:06		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037759.D	18 Sep 2025 02:46		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037760.D	18 Sep 2025 03:22		RC/JU	Ok
23	Q3095-12	MW202D-20250909	BN037761.D	18 Sep 2025 03:58		RC/JU	Ok
24	Q3095-14	RE123D1-20250909	BN037762.D	18 Sep 2025 04:34		RC/JU	Ok
25	Q3095-15	RE123D3-20250909	BN037763.D	18 Sep 2025 05:10		RC/JU	Ok
26	Q3095-16	MW305D-20250909	BN037764.D	18 Sep 2025 05:46		RC/JU	Ok
27	Q3095-17	DUP01-20250909	BN037765.D	18 Sep 2025 06:23		RC/JU	Ok
28	Q3095-18	RE126D2-20250909	BN037766.D	18 Sep 2025 06:59		RC/JU	Ok
29	Q3095-19	RE126D3-20250909	BN037767.D	18 Sep 2025 07:35		RC/JU	Ok
30	Q3095-20	MW178S-20250910	BN037768.D	18 Sep 2025 08:11		RC/JU	Ok
31	Q3097-07	RE108D2-20250911	BN037769.D	18 Sep 2025 08:47		RC/JU	Ok
32	Q3097-08	RE125D2-20250911	BN037770.D	18 Sep 2025 09:23	Need 5X Dilution	RC/JU	Dilution
33	Q3097-01	RE103D2-20250911	BN037771.D	18 Sep 2025 10:00		RC/JU	Ok
34	Q3097-02MS	RE103D2-20250911MS	BN037772.D	18 Sep 2025 11:48		RC/JU	Ok
35	Q3097-03MSD	RE103D2-20250911MS	BN037773.D	18 Sep 2025 12:25		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037774.D	18 Sep 2025 13:16		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830,1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037775.D	18 Sep 2025 13:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037776.D	18 Sep 2025 14:32		RC/JU	Ok
3	PB169693BL	PB169693BL	BN037777.D	18 Sep 2025 15:10		RC/JU	Ok
4	Q3097-09	RE108D1-20250911	BN037778.D	18 Sep 2025 15:47		RC/JU	Ok
5	Q3097-04	RE125D1-20250911	BN037779.D	18 Sep 2025 16:23		RC/JU	Ok
6	Q3097-05	RE125D3-20250911	BN037780.D	18 Sep 2025 17:00		RC/JU	Ok
7	Q3097-06	RE103D3-20250911	BN037781.D	18 Sep 2025 17:36		RC/JU	Ok
8	Q3083-03	MW3S	BN037782.D	18 Sep 2025 18:12	Need 2x Dilution	RC/JU	Dilution
9	Q3095-21	RE126D1-20250910	BN037783.D	18 Sep 2025 18:49		RC/JU	Ok
10	Q3095-22	MW202D1-20250910	BN037784.D	18 Sep 2025 19:25		RC/JU	Ok
11	Q3095-23	RE104D2-20250910	BN037785.D	18 Sep 2025 20:02		RC/JU	Ok
12	Q3095-24	MW178I-20250910	BN037786.D	18 Sep 2025 20:38		RC/JU	Ok
13	Q3095-25	DUP02-20250910	BN037787.D	18 Sep 2025 21:14		RC/JU	Ok
14	Q3095-26	DUP03-20250910	BN037788.D	18 Sep 2025 21:51		RC/JU	Ok
15	Q3095-03DL	MW201D-20250908DL	BN037789.D	18 Sep 2025 22:27		RC/JU	Ok
16	Q3097-08DL	RE125D2-20250911DL	BN037790.D	18 Sep 2025 23:03		RC/JU	Ok
17	PB169692BS	PB169692BS	BN037791.D	18 Sep 2025 23:40		RC/JU	Ok
18	PB169693BS	PB169693BS	BN037792.D	19 Sep 2025 00:16		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
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			

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037793.D	19 Sep 2025 00:52		RC/JU	Ok
20	DFTPP	DFTPP	BN037794.D	19 Sep 2025 02:08		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037795.D	19 Sep 2025 02:47		RC/JU	Ok
22	PB169692BL	PB169692BL	BN037796.D	19 Sep 2025 03:24		RC/JU	Ok
23	Q3095-29	RE122D2-20250910	BN037797.D	19 Sep 2025 04:00		RC/JU	Ok
24	Q3095-30	RE104D1-20250910	BN037798.D	19 Sep 2025 04:37		RC/JU	Ok
25	Q3095-31	TT180D-20250911	BN037799.D	19 Sep 2025 05:13		RC/JU	Ok
26	Q3095-32	RE122D3-20250911	BN037800.D	19 Sep 2025 05:49		RC/JU	Ok
27	Q3097-10	RE120D3-20250911	BN037801.D	19 Sep 2025 06:25		RC/JU	Ok
28	Q3097-11	RE105D1-20250911	BN037802.D	19 Sep 2025 07:01		RC/JU	Ok
29	Q3097-12	DUP04-20250911	BN037803.D	19 Sep 2025 07:37		RC/JU	Ok
30	Q3097-13	DUP05-20250911	BN037804.D	19 Sep 2025 08:13	Need 2X Dilution	RC/JU	Dilution
31	Q3097-14	RE105D2-20250911	BN037805.D	19 Sep 2025 08:49		RC/JU	Ok
32	Q3097-15	RE117D2-20250911	BN037806.D	19 Sep 2025 09:25		RC/JU	Ok
33	Q3097-19	RE120D1-20250912	BN037807.D	19 Sep 2025 10:02	Need 2X Dilution	RC/JU	Dilution
34	Q3127-13	TT119S1-20250916	BN037808.D	19 Sep 2025 10:38		RC/JU	Ok
35	Q3127-14MS	TT119S1-20250916MS	BN037809.D	19 Sep 2025 11:50		RC/JU	Ok,M
36	Q3127-15MSD	TT119S1-20250916MS	BN037810.D	19 Sep 2025 12:27		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN037811.D	19 Sep 2025 13:03		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091825

Review By	Rahul	Review On	9/19/2025 8:50:16 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:07:38 AM
SubDirectory	BN091825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
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			

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6846 SP6830, 1ul/100ul sample SP6854

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037812.D	19 Sep 2025 13:39		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037813.D	19 Sep 2025 14:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037814.D	19 Sep 2025 14:55		RC/JU	Ok
4	Q3095-27	RE117D1-20250910	BN037815.D	19 Sep 2025 15:32		RC/JU	Ok
5	Q3083-03DL	MW3SDL	BN037816.D	19 Sep 2025 16:08		RC/JU	Ok
6	Q3097-13DL	DUP05-20250911DL	BN037817.D	19 Sep 2025 16:45		RC/JU	Ok
7	Q3097-19DL	RE120D1-20250912DL	BN037818.D	19 Sep 2025 17:21		RC/JU	Ok
8	Q3097-21	RE120D2-20250912	BN037819.D	19 Sep 2025 17:58		RC/JU	Ok
9	Q3097-22	RE134D1-20250912	BN037820.D	19 Sep 2025 18:34		RC/JU	Ok
10	Q3097-23	RE134D4-20250912	BN037821.D	19 Sep 2025 19:11		RC/JU	Ok
11	Q3097-24	RE134D2-20250912	BN037822.D	19 Sep 2025 19:47	Need 2X Dilution	RC/JU	Dilution
12	Q3097-25	RE134D3-20250912	BN037823.D	19 Sep 2025 20:24	Need 2X Dilution	RC/JU	Dilution
13	Q3097-26	EB01-20250912	BN037824.D	19 Sep 2025 21:00		RC/JU	Ok
14	Q3127-01	DUP08-20250915	BN037825.D	19 Sep 2025 21:37		RC/JU	Ok
15	Q3127-02	RE131D1-20250915	BN037826.D	19 Sep 2025 22:13	Need 2X Dilution	RC/JU	Dilution
16	Q3127-03	RE131D2-20250915	BN037827.D	19 Sep 2025 22:50	Need 2X Dilution	RC/JU	Dilution
17	Q3127-04	DUP07-20250915	BN037828.D	19 Sep 2025 23:26	Need 2X Dilution	RC/JU	Dilution
18	PB169743BS	PB169743BS	BN037829.D	20 Sep 2025 00:03		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091925

Review By	Rahul	Review On	9/22/2025 8:49:07 AM
Supervise By	mohammad	Supervise On	9/23/2025 2:08:18 AM
SubDirectory	BN091925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125
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			

19	SSTDCCC0.4	SSTDCCC0.4EC	BN037830.D	20 Sep 2025 00:39		RC/JU	Ok
20	DFTPP	DFTPP	BN037831.D	20 Sep 2025 01:16		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN037832.D	20 Sep 2025 02:35		RC/JU	Ok
22	PB169743BL	PB169743BL	BN037833.D	20 Sep 2025 03:12		RC/JU	Ok
23	Q3127-05	TT15811-20250915	BN037834.D	20 Sep 2025 03:48		RC/JU	Ok
24	Q3127-06	TT180D2-20250915	BN037835.D	20 Sep 2025 04:25		RC/JU	Ok
25	Q3127-07	RE135D2-20250915	BN037836.D	20 Sep 2025 05:01		RC/JU	Ok
26	Q3127-08	RE132D6-20250916	BN037837.D	20 Sep 2025 05:37	Need 2X Dilution	RC/JU	Dilution
27	Q3127-09	TT101D2-20250915	BN037838.D	20 Sep 2025 06:13		RC/JU	Ok
28	Q3127-10	TT101D-20250915	BN037839.D	20 Sep 2025 06:50		RC/JU	Ok
29	Q3127-11	RE135D3-20250915	BN037840.D	20 Sep 2025 07:26		RC/JU	Ok
30	Q3127-12	RE132D7-20250916	BN037841.D	20 Sep 2025 08:02		RC/JU	Ok
31	Q3127-16	TT101D2-20250915	BN037842.D	20 Sep 2025 08:38	Need 2X Dilution	RC/JU	Dilution
32	Q3095-28	RE104D3-20250910	BN037843.D	20 Sep 2025 09:14		RC/JU	Ok
33	Q3097-20	DUP06-20250912	BN037844.D	20 Sep 2025 09:51	Need 2X Dilution	RC/JU	Dilution
34	Q3127-18	BPOW1-8-20250917	BN037845.D	20 Sep 2025 10:27		RC/JU	Ok
35	Q3127-19	BPOW1-7-20250917	BN037846.D	20 Sep 2025 11:03		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN037847.D	20 Sep 2025 11:39		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092225

Review By	Rahul	Review On	9/23/2025 8:32:53 AM
Supervise By	Jagrut	Supervise On	9/23/2025 10:21:18 AM
SubDirectory	BN092225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn091125

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	BN037848.D	22 Sep 2025 08:59		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037849.D	22 Sep 2025 10:19		RC/JU	Ok
3	PB169743BL	PB169743BL	BN037850.D	22 Sep 2025 10:55		RC/JU	Ok
4	Q3097-24DL	RE134D2-20250912DL	BN037851.D	22 Sep 2025 11:31		RC/JU	Ok
5	Q3097-25DL	RE134D3-20250912DL	BN037852.D	22 Sep 2025 12:08		RC/JU	Ok
6	Q3127-02DL	RE131D1-20250915DL	BN037853.D	22 Sep 2025 12:44		RC/JU	Ok
7	Q3127-03DL	RE131D2-20250915DL	BN037854.D	22 Sep 2025 13:20		RC/JU	Ok
8	Q3127-04DL	DUP07-20250915DL	BN037855.D	22 Sep 2025 13:56		RC/JU	Ok
9	Q3127-08DL	RE132D6-20250916DL	BN037856.D	22 Sep 2025 14:33		RC/JU	Ok
10	Q3127-16DL	TT101D2-20250915DL	BN037857.D	22 Sep 2025 15:09		RC/JU	Ok
11	Q3097-20DL	DUP06-20250912DL	BN037858.D	22 Sep 2025 15:45		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037859.D	22 Sep 2025 16:39		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 # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM
SubDirectory	BN092425	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	BN037870.D	24 Sep 2025 09:15		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54		RC/JU	Ok
3	PB169712BL	PB169712BL	BN037872.D	24 Sep 2025 10:32		RC/JU	Ok
4	Q3015-05	WP0925-PT-BN-WP	BN037873.D	24 Sep 2025 11:08	PT Sample, Need 100X Dilution	RC/JU	Dilution
5	Q3015-05DL	WP0925-PT-BN-WPDL	BN037874.D	24 Sep 2025 13:36		RC/JU	Dilution
6	Q3015-21	WP0925-RR-PAH-WP	BN037875.D	24 Sep 2025 14:12	PT Sample, Need 10X Dilution	RC/JU	Dilution
7	Q3015-21DL	WP0925-RR-PAH-WPDL	BN037876.D	24 Sep 2025 15:05		RC/JU	Ok
8	Q3015-08	WP0925-PT-ACIDS-WP	BN037877.D	24 Sep 2025 15:48	PT Sample, Need 50X Dilution	RC/JU	Dilution
9	Q3015-08DL	WP0925-PT-ACIDS-WPDL	BN037878.D	24 Sep 2025 16:58		RC/JU	Ok
10	PB169712BS	PB169712BS	BN037879.D	24 Sep 2025 17:39	Internal Standard Fail, Use for DOD projects	RC/JU	Not Ok
11	PB169712BSD	PB169712BSD	BN037880.D	24 Sep 2025 18:16	Use for DOD projects	RC/JU	Not Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037881.D	24 Sep 2025 18:52		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	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	BN037882.D	25 Sep 2025 10:52		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31		RC/JU	Ok
3	PB169793BL	PB169793BL	BN037884.D	25 Sep 2025 12:07		RC/JU	Ok
4	PB169712BS	PB169712BS	BN037885.D	25 Sep 2025 12:44		RC/JU	Ok
5	PB169793BS	PB169793BS	BN037886.D	25 Sep 2025 13:21		RC/JU	Ok
6	PB169793BSD	PB169793BSD	BN037887.D	25 Sep 2025 13:57		RC/JU	Ok
7	PB169712BSD	PB169712BSD	BN037888.D	25 Sep 2025 14:34		RC/JU	Ok
8	Q3141-02	BP-VPB-184-EB-20250	BN037889.D	25 Sep 2025 15:11		RC/JU	Ok
9	Q3141-03	BP-VPB-184-GW-60-62	BN037890.D	25 Sep 2025 15:48		RC/JU	Ok
10	Q3141-05	BP-VPB-184-GW-150-1	BN037891.D	25 Sep 2025 16:24		RC/JU	Ok
11	Q3141-07	BP-VPB-184-GW-220-2	BN037892.D	25 Sep 2025 17:01		RC/JU	Ok
12	Q3142-01	RW8-SP100-20250918	BN037893.D	25 Sep 2025 17:38		RC/JU	Ok
13	Q3142-02	RW8-SP303-20250918	BN037894.D	25 Sep 2025 18:15		RC/JU	Ok
14	Q3156-02	RE10-MW01S-202509	BN037895.D	25 Sep 2025 18:51		RC/JU	Ok
15	Q3156-03	RE131D3-20250918	BN037896.D	25 Sep 2025 19:28		RC/JU	Ok
16	Q3156-04	TT190D1-20250918	BN037897.D	25 Sep 2025 20:05		RC/JU	Ok
17	Q3156-05	RE132D2-20250918	BN037898.D	25 Sep 2025 20:41	Need 2X Dilution	RC/JU	Dilution
18	Q3156-06	RE132D4-20250918	BN037899.D	25 Sep 2025 21:18	Need 2X Dilution	RC/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	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			

19	Q3156-07	TT189D2-20250918	BN037900.D	25 Sep 2025 21:54	Need 2X Dilution	RC/JU	Dilution
20	SSTDCCC0.4	SSTDCCC0.4EC	BN037901.D	25 Sep 2025 22:31		RC/JU	Ok
21	DFTPP	DFTPP	BN037902.D	25 Sep 2025 23:47		RC/JU	Ok
22	SSTDCCC0.4	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 09/15/2025

Matrix : Water **Extraction Start Time :** 12:00

Weigh By: N/A **Extraction By:** RJ **Extraction End Date :** 09/15/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 16:30

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: N/A **Hood ID:** 4,5,6,7 **Supervisor By :** ritesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
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	E3937
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
9/15/25	RJ (EXT-100b)	Rcksvoc
16:35	Preparation Group	Analysis Group

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

Concentration Date: 09/15/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169693BL	SBLK693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169693BS	SLCS693	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
Q3083-03	MW3S	SVOC-SIM	1000	6	ritesh	Evelyn	1	C		3
Q3095-21	RE126D1-20250910	SVOC-SIMGrou p1	990	6	ritesh	Evelyn	1	C		4
Q3095-22	MW202D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3095-23	RE104D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		6
Q3095-24	MW178I-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3095-25	DUP02-20250910	SVOC-SIMGrou p1	970	6	ritesh	Evelyn	1	C		8
Q3095-26	DUP0-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3095-27	RE117D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		10
Q3095-28	RE104D3-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3095-29	RE122D2-20250910	SVOC-SIMGrou p1	980	6	ritesh	Evelyn	1	C		12
Q3095-30	RE104D1-20250910	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3095-31	TT180D-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3095-32	RE122D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3097-01	RE103D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3097-02	Q3097-01MS	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-03	Q3097-01MSD	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3097-04	RE125D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3097-05	RE125D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4
Q3097-06	RE103D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		5
Q3097-07	RE108D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		6
Q3097-08	RE125D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3097-09	RE108D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		8

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 WorkList ID : 191877 Department : Extraction Date : 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3083-03	MW3S	Water	SVOC-SIM	Cool 4 deg C	GENV01	D31	09/11/2025	8270-Modified
Q3095-21	RE126D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-22	MW202D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-23	RE104D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-24	MW178I-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-25	DUP02-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-26	DUP0-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-27	RE117D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-28	RE104D3-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-29	RE122D2-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-30	RE104D1-20250910	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/10/2025	8270-Modified
Q3095-31	TT180D-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3095-32	RE122D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D31	09/11/2025	8270-Modified
Q3097-01	RE103D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-02	Q3097-01MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-03	Q3097-01MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-04	RE125D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-05	RE125D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-06	RE103D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-07	RE108D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-08	RE125D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55
Raw Sample Received by: RS (CFL-044)
Raw Sample Relinquished by: QSR

Date/Time 09/15/25
Raw Sample Received by: QSR
Raw Sample Relinquished by: RS (CFL-044)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3095 WorkList ID : 191877 Department : Extraction Date : 09-15-2025 11:28:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3097-09	RE108D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified

Date/Time 09/15/25 11:55
Raw Sample Received by: R3 (674-1ae6)
Raw Sample Relinquished by: ap sm

Date/Time 09/15/25 12:35
Raw Sample Received by: ap sm
Raw Sample Relinquished by: R3 (674-1ae6)



SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	09/16/2025
Matrix :	Water	Extraction Start Time :	09:39
Weigh By:	N/A	Extraction By:	RJ
Balance check:	N/A	Extraction End Date :	09/16/2025
Balance ID:	N/A	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	14:00
		Concentration By:	EH
		Supervisor By :	ritesh
Extraction Method:	☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
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	E3937
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
9/16/25	RJ (152-146)	Rc/svpc
14:05	Preparation Group	Analysis Group

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

Concentration Date: 09/16/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169712BL	SBLK712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169712BS	SLCS712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
PB169712BS D	SLCSD712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			3
Q3015-05	WP0925-PT-BN-WP	SVOCMS Group3	1000	6	ritesh	Evelyn	1			4
Q3015-08	WP0925-PT-ACIDS-WP	SVOCMS Group4	1000	6	ritesh	Evelyn	1			5
Q3015-21	WP0925-RR-PAH-WP	SVOCMS Group5	1000	6	ritesh	Evelyn	1			6
Q3097-10	RE120D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3097-11	RE105D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		8
Q3097-12	DUP04-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3097-13	DUP05-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		10
Q3097-14	RE105D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3097-15	RE117D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		12
Q3097-19	RE120D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3097-20	DUP06-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3097-21	RE120D2-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3097-22	RE134D1-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3097-23	RE134D4-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-24	RE134D2-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3097-25	RE134D3-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3097-26	EB01-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3096 WorkList ID : 191898 Department : Extraction Date : 09-16-2025 09:32:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3015-05	WP0925-PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-08	WP0925-PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-21	WP0925-RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3097-10	RE120D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-11	RE105D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-12	DUP04-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-13	DUP05-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-14	RE105D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-15	RE117D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-19	RE120D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-20	DUP06-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-21	RE120D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-22	RE134D1-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-23	RE134D4-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-24	RE134D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-25	RE134D3-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-26	EB01-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified

Date/Time 09/16/25 9:33
 Raw Sample Received by: RJ LEE-1060
 Raw Sample Relinquished by: [Signature]

Date/Time 09/16/25 10:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RJ LEE-1060

Prep Standard - Chemical Standard Summary

Order ID : Q3097

Test : SVOC-SIMGroup1

Prepbatch ID : PB169693,PB169712,

Sequence ID/Qc Batch ID: BN091725,BN091825,BN091825,BN091925,BN091925,BN092225,BN092425,BN092425,BN092425,B

Standard ID :

EP2609,EP2610,EP2639,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :

1ul/100ul

sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3973,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
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								

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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 /	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

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

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]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -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
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:

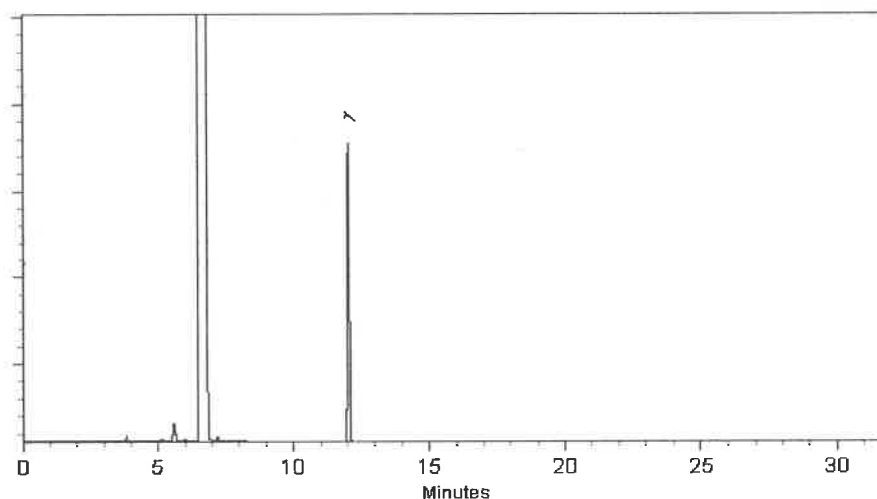
200°C

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



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.

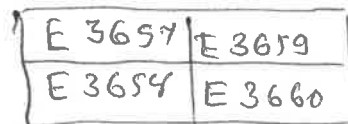
This document has been electronically produced and is valid without a signature.

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

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'd by RP on 6/11/25

E3940

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

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 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)

avantortm



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3973

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



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Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

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



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gravimetric



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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. : 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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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:

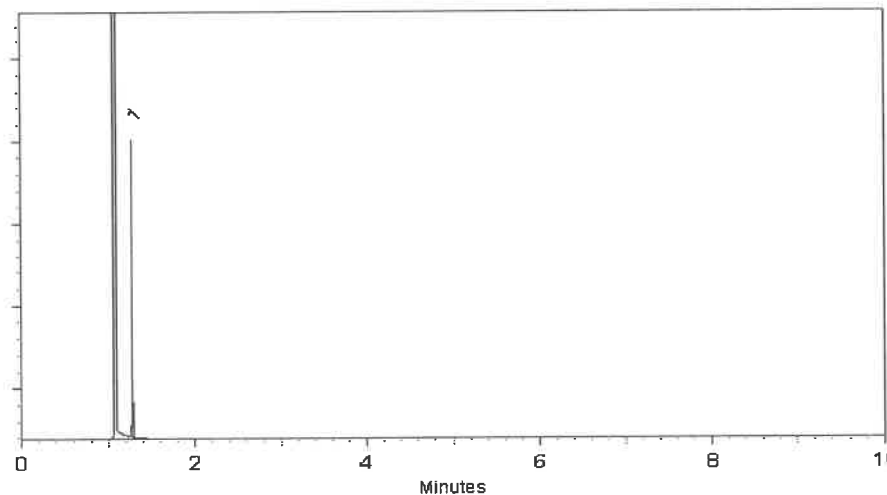
FID

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

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

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

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

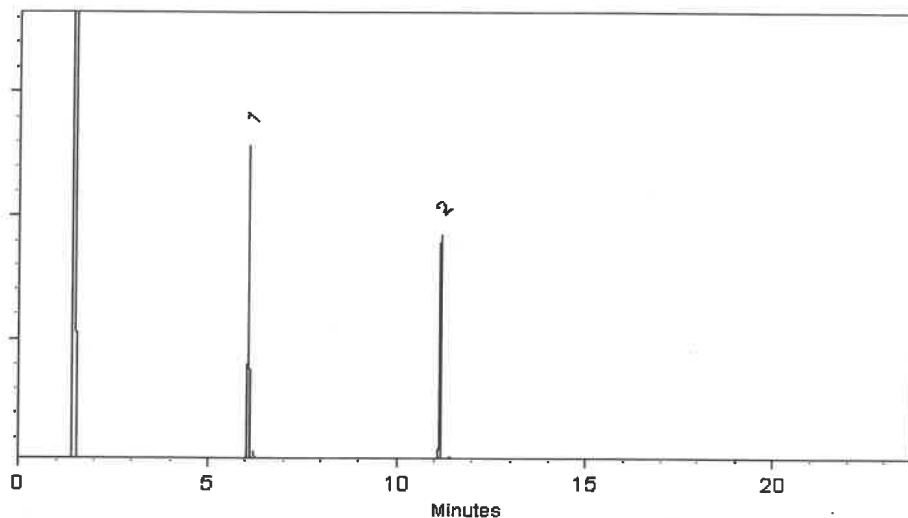
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

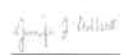


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

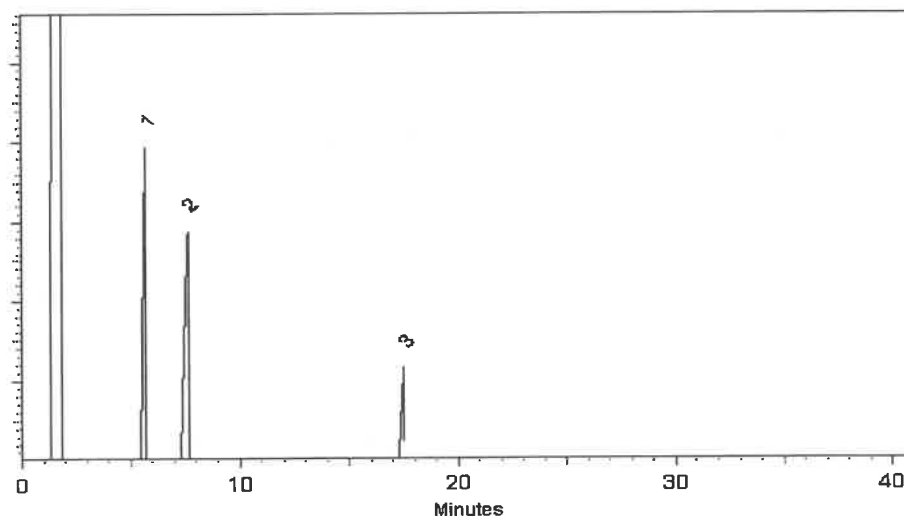
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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



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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

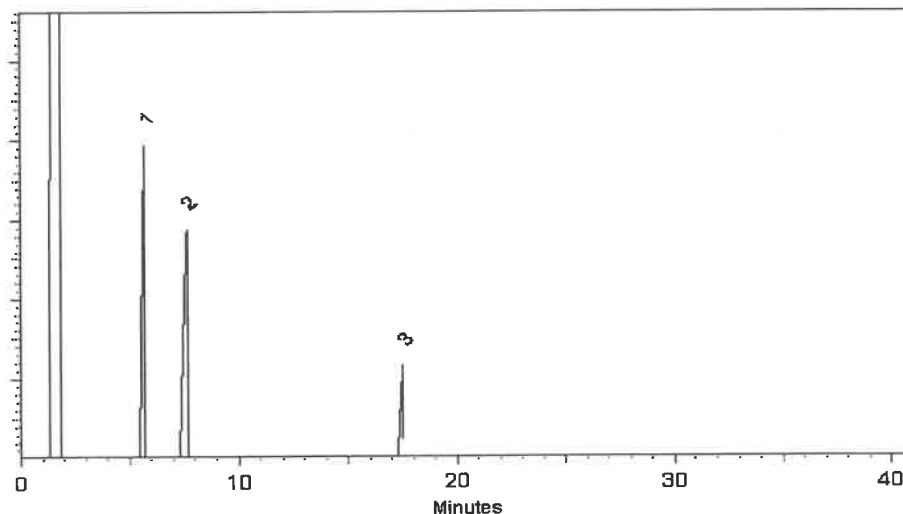
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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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:

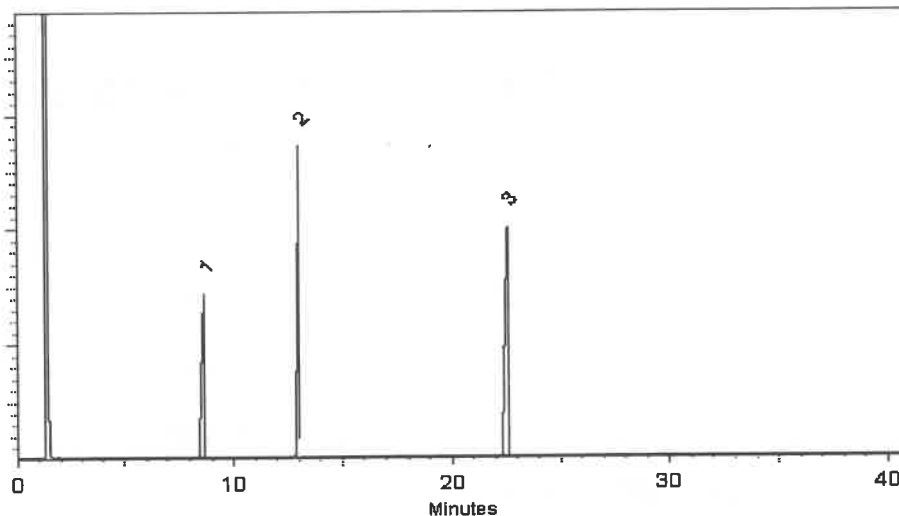
FID

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

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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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:

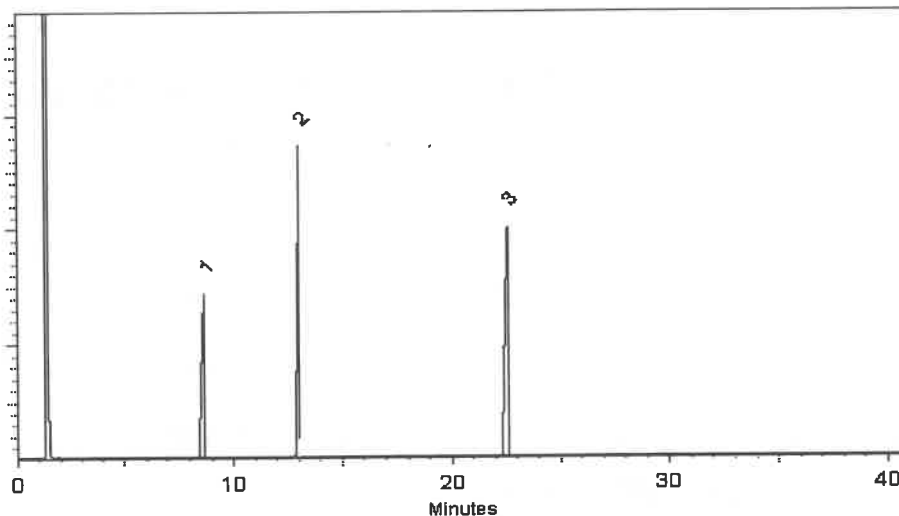
FID

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

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



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(707)525-5788
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

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

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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
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listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** 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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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** 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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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. : 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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 } RC
↓
S12579 } 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.)

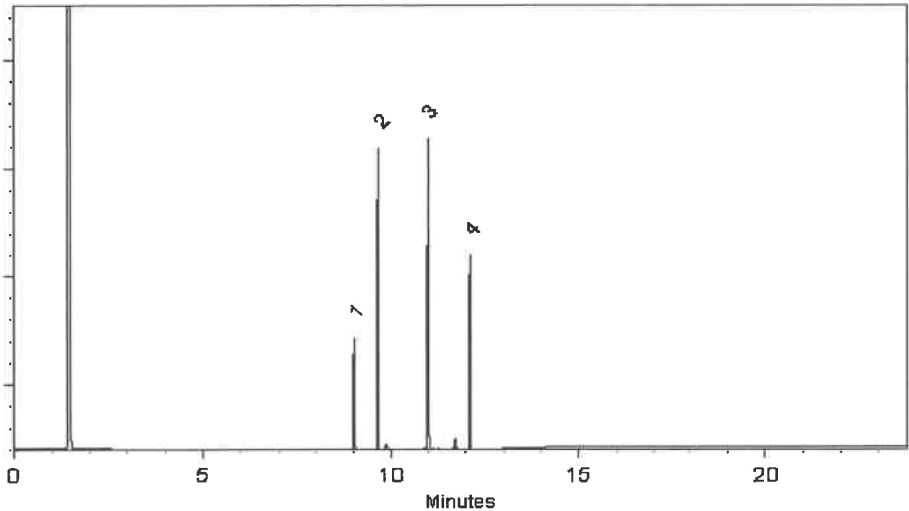
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

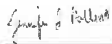
Inj. Vol
1µl



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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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** 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

- 1
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- 18

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadan
PHONE: FAX:

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadan
e-mail: Eleanor.Vivadan@aecon.com
PHONE: FAX:

BILL TO: Eleanor Vivadan PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT

1. VOCs 8260
2. 1,4 dioxane 82705M
3. 4. 5. 6. 7. 8. 9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F								
1.	MW3051-20250908	GW		X	9/8	1505	3	2	1								
2.	MW179D-20250908	GW		X	9/8	1538	3	2	1								
3.	MW201D-20250908	GW		X	9/8	1600	3	2	1								
4.	MW179D1-20250908	GW		X	9/8	1630	3	2	1								
5.	MW203D2-20250909	GW		X	9/9	1020	3	2	1								ms/msd
6.	MW203D1-20250909	GW		X	9/9	1030	3	2	1								
7.	MW179D2-20250909	GW		X		1012	3	2	1								
8.	MW201D1-20250909	GW		X		1045	3	2	1								
9.	RE122D1-20250909	GW		X		1300	3	2	1								
10.	MW202D-20250909	GW		X		1112	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Moni Acrok</u>	DATE/TIME: <u>1320</u> <u>8/12/15</u>	RECEIVED BY: 1. <u>[Signature]</u>	DATE/TIME: <u>1320</u> <u>9-12-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: <u>1720</u> <u>9-12-25</u>	RECEIVED BY: 3.		

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadan
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadan
e-mail: Eleanor.Vivadan@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1	2	3	4	5	6	7	8	9
VOCs P260 1,4 dioxane P273								

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	MW178I1-20250909	GW		X	9/9	1300	3	2	1										
2.	RE123D1-20250909	GW		X	9/9	1340	3	2	1										
3.	RE123D3-20250909	GW		X	9/9	1355	3	2	1										
4.	MW305D-20250909	GW		X	9/9	1155	3	2	1										
5.	DUP01-20250909	GW		X	9/9	1235	3	2	1										
6.	RE126D2-20250909	GW		X	9/9	1442	3	2	1										
7.	RE126D3-20250909	GW		X	9/9	1540	3	2	1										
8.	MW178S-20250910	GW		X	9/10	0947 0948 ^{mt}	3	2	1										
9.	RE126D1-20250910	GW		X	9/10	1010	3	2	1										
10.	MW202D1-20250910	GW		X	9/10	1010	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 29°C
1. [Signature]	9/12/25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.	1720	2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
3. [Signature]	9-12-25	3.	

Page 2 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION: Eleanor Vivadon

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT NO.: 6073187 LOCATION: Bethpage, NY

PROJECT MANAGER: Eleanor Vivadon

e-mail: Eleanor.vivadon@aecom.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon

PO#:

ADDRESS: 27 Ellis Place

CITY Ossining

STATE: NY

ZIP: 10563

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data

☐ Other _____

☐ EDD FORMAT _____

VOCs 8260
1,4 dioxane 8270 SIM

1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH

B-HNO3 E-ICE

C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F								
1.	RE104D2-20250910	GW		X	9/10	1045	3	2	1								
2.	MW178I-20250910	GW		X	9/10	1052	3	2	1								
3.	DUP02-20250910	GW		X	9/10	1315	3	2	1								
4.	DUP03-20250910	GW		X	9/10	1035	3	2	1								
5.	RE-H ^{MA} RE117D1-20250910	GW		X	9/10	1300	3	2	1								
6.	RE104D3-20250910	GW		X	9/10	1305	3	2	1								
7.	RE122D2-20250910	GW		X	9/10	1315	3	2	1								
8.	RE104D1-20250910	GW		X	9/10	1115	3	2	1								
9.	TT180D-20250911	GW		X	9/11	0940	3	2	1								
10.	RE122D3-20250911	GW		X	9/11	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1:320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
1. Morris Acheek	9/12/25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1:20	RECEIVED BY:	
3. [Signature]	9-12-25	3.	

Page 3 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@resolution.com
PHONE: FAX:

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY: Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

VOCs 8260
1/4 dia 827551

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	RE103D2 - 20250911	GW		X	9/11	0957	9	6	3									ms / msd
2.	RE125D1 - 20250911	GW		X	9/11	1055	3	2	1									
3.	RE125D3 - 20250911	GW		X	9/11	1125	3	2	1									
4.	RE103D3 - 20250911	GW		X	9/11	1112	3	2	1									
5.	RE108D2 - 20250911	GW		X	9/11	1155 ^{ms}	3	2	1									
6.	RE125D2 - 20250911	GW		X	9/11	1245	3	2	1									
7.	RE108D1 - 20250911	GW		X	9/11	1255	3	2	1									
8.	RE120D3 - 20250911	GW		X	9/11	1420	3	2	1									
9.	RE105D1 - 20250911	GW		X	9/11	1535	3	2	1									
10.	DUP04 - 20250911	GW		X	9/11	1635	3	2	1									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Mono Achele	DATE/TIME: 1320 09/12/25	RECEIVED BY: [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1728 9-12-25	RECEIVED BY: 3.	

Page 4 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY STATE: ZIP:

ATTENTION: Eleanor Vivadan

PHONE: FAX:

PROJECT NAME: NMARP Bethpage

PROJECT NO.: 60731872 LOCATION: Bethpage, NY

PROJECT MANAGER: Eleanor Vivadan

e-mail: eleanor.vivadan@ae.com, com

PHONE: FAX:

BILL TO: Eleanor Vivadan

PO#:

ADDRESS: 27 Ellis Place

CITY Ossining STATE: NY ZIP: 10563

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data) ☐ Other

☐ EDD FORMAT

1. VOCs 8260
2. 1,4 dioxane 8270-511

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	DUP05 - 20250911	GW		X	9/11	1105	3	2	1										
2.	RE10SD2 - 20250911	GW		X	9/11	1625	3	2	1										
3.	RE117D2 - 20250911	GW		X	9/11	1520	3	2	1										
4.	TB01 - 20250911	Aq			9/11	N/A	2	2										QA/QC TBS	
5.	TB02 - 20250911	Aq			9/11	N/A	2	2										QA/QC TBS	
6.	TB03 - 20250911	Aq			9/11	N/A	2	2										QA/QC TBS	
7.	TB04 - 20250911	Aq			9/11	N/A	2	2										QA/QC TBS	
8.	TB05 - 20250912	Aq			9/12	N/A	2	2											
9.	RE120D1 - 20250912	GW		X	9/12	0952	3	2	1										
10.	DUP06 - 20250912	GW		X	9/12	1140	3	2	1										

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
1. Mono Achek	9/12/25	1. [Signature] 9-12-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
3. [Signature]	9-12-25	3.	

Page 5 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivadan

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MWIRP Bethpage

PROJECT NO.: 60731872 LOCATION: Bethpage

PROJECT MANAGER: Eleanor Vivadan

e-mail: elenr.vivadan@rcm.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadan PO#:

ADDRESS: 27 Ellis Place

CITY Ossining STATE: NY ZIP: 10566

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data ☐ Other

☐ EDD FORMAT

VOCs 8260
14 others 8270-517

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	F									← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	RE120DL-20250912	6W		X	9/12	0955	3	2	1										
2.	RE134D1-20250912	6W		X	9/12	0955	3	2	1										
3.	RE134D4-20250912	6W		X	9/12	1010	3	2	1										
4.	RE134D2-20250912	6W		X	9/12	0950	3	2	1										
5.	RE134D3-20250912	6W		X	9/12	1030	3	2	1										
6.	EB01-20250912	6W ^{A9}		X	9/12	0822	3	2	1									Equipment Blank	
7.																			
8.																			
9.																			
10.																			

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1320	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.16 °C
1. Mario Aciole	9/12-25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:	
3. [Signature]	9-12-25	3.	

Page 6 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

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

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097	AECO15	Order Date : 9/12/2025 1:28:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-01	RE103D2-20250911	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-02	Q3097-01MS	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-03	Q3097-01MSD	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-04	RE125D1-20250911	Water	09/11/2025	10:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-05	RE125D3-20250911	Water	09/11/2025	11:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-06	RE103D3-20250911	Water	09/11/2025	11:12					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-07	RE108D2-20250911	Water	09/11/2025	11:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-08	RE125D2-20250911	Water	09/11/2025	12:45					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097	AECO15	Order Date : 9/12/2025 1:28:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-09	RE108D1-20250911	Water	09/11/2025	12:55	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-10	RE120D3-20250911	Water	09/11/2025	14:20	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-11	RE105D1-20250911	Water	09/11/2025	15:35	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-12	DUP04-20250911	Water	09/11/2025	16:35	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-13	DUP04-20250911 5	Water	09/11/2025	11:05	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-14	RE105D2-20250911	Water	09/11/2025	16:25	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-15	RE117D2-20250911	Water	09/11/2025	15:20	VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097	AECO15	Order Date : 9/12/2025 1:28:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-16	TB03-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-17	TB04-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-18	TB05-20250911	Water	09/12/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-19	RE120D1-20250912	Water	09/12/2025	09:52					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-20	DUP06-20250912	Water	09/12/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-21	RE120D2-20250912	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-22	RE100D1-20250912 134	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-23	RE134D4-20250912	Water	09/12/2025	10:10					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15	Order Date : 9/12/2025 1:28:00 PM	Project Mgr : Yazmeen
Client Name : AECOM Technical Services	Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou	Receive Date/Time : 9/12/2025 5:20:00 PM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services	Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou		Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-24	RE134D2-20250912	Water	09/12/2025	09:50	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-25	RE134D3-20250912	Water	09/12/2025	10:30	VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-26	EB01-20250911 2	Water	09/12/2025	08:22	VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 9/15/25 1250

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
 Data File : BN037692.D
 Acq On : 11 Sep 2025 10:32
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 11 14:05:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:02:44 2025
 Response via : Initial Calibration

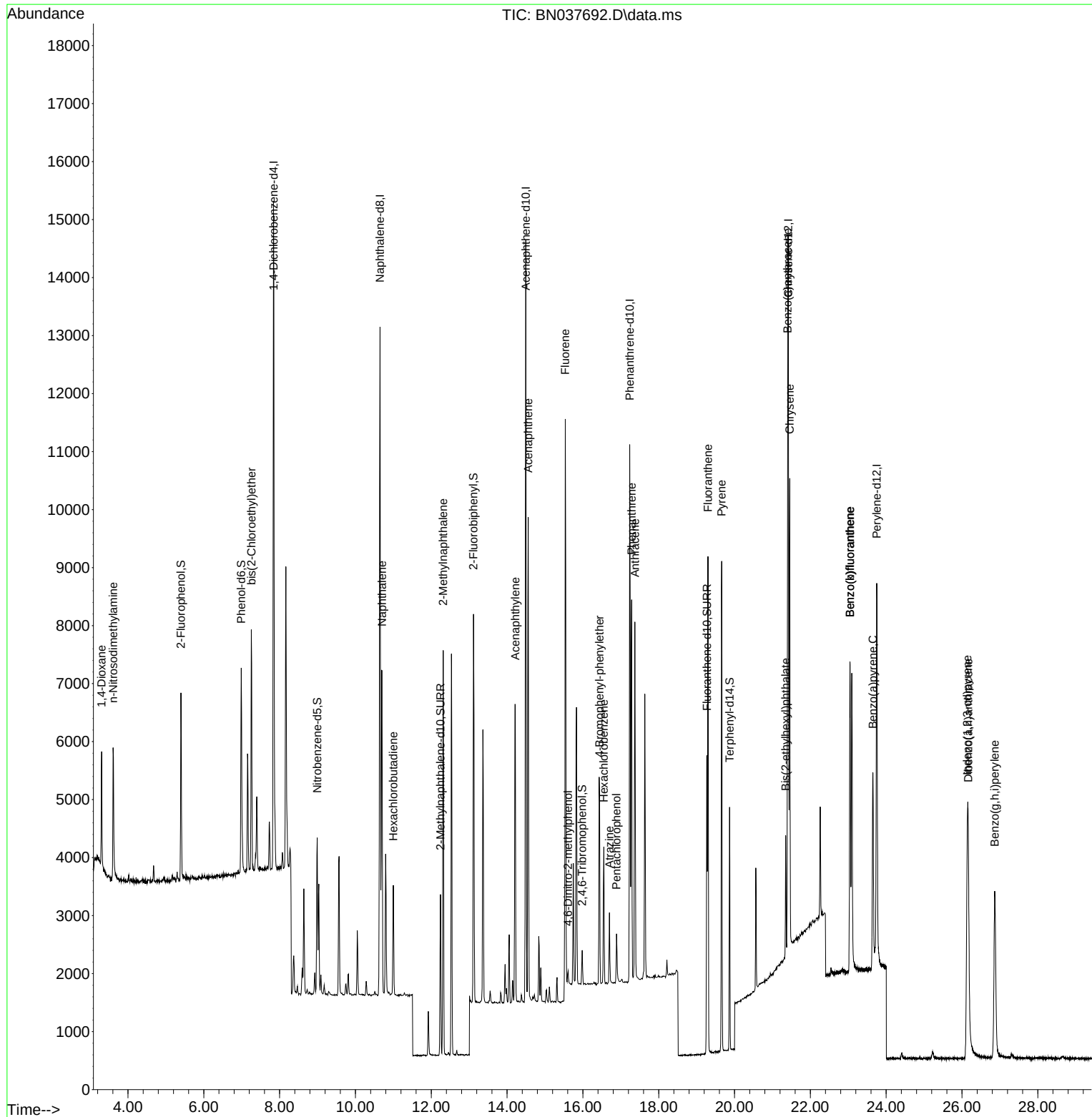
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	5547	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	15018	0.400	ng	0.00
13) Acenaphthene-d10	14.494	164	6952	0.400	ng	0.00
19) Phenanthrene-d10	17.235	188	12385	0.400	ng	0.00
29) Chrysene-d12	21.420	240	9324	0.400	ng	0.00
35) Perylene-d12	23.753	264	9364	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	2533	0.199	ng	0.00
5) Phenol-d6	6.988	99	3308	0.200	ng	0.00
8) Nitrobenzene-d5	8.993	82	2098	0.191	ng	0.00
11) 2-Methylnaphthalene-d10	12.243	152	3732	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.982	330	340	0.188	ng	0.00
15) 2-Fluorobiphenyl	13.115	172	5791	0.199	ng	0.00
27) Fluoranthene-d10	19.271	212	5492	0.177	ng	0.00
31) Terphenyl-d14	19.870	244	3884	0.205	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	1189	0.206	ng	99
3) n-Nitrosodimethylamine	3.608	42	1470	0.195	ng	# 93
6) bis(2-Chloroethyl)ether	7.255	93	2982	0.202	ng	100
9) Naphthalene	10.701	128	8051	0.196	ng	99
10) Hexachlorobutadiene	11.000	225	1472	0.198	ng	# 100
12) 2-Methylnaphthalene	12.314	142	4889	0.193	ng	100
16) Acenaphthylene	14.216	152	6105	0.191	ng	98
17) Acenaphthene	14.559	154	4168	0.193	ng	98
18) Fluorene	15.535	166	4875	0.187	ng	97
20) 4,6-Dinitro-2-methylph...	15.609	198	201	0.175	ng	# 58
21) 4-Bromophenyl-phenylether	16.441	248	1560	0.193	ng	97
22) Hexachlorobenzene	16.553	284	1906	0.205	ng	99
23) Atrazine	16.702	200	932	0.181	ng	96
24) Pentachlorophenol	16.888	266	461	0.171	ng	98
25) Phenanthrene	17.285	178	7526	0.193	ng	98
26) Anthracene	17.372	178	6375	0.185	ng	99
28) Fluoranthene	19.299	202	7577	0.177	ng	100
30) Pyrene	19.661	202	7543	0.207	ng	99
32) Benzo(a)anthracene	21.402	228	6270	0.193	ng	99
33) Chrysene	21.456	228	6953	0.199	ng	98
34) Bis(2-ethylhexyl)phtha...	21.348	149	2049	0.213	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.142	276	6982	0.177	ng	99
37) Benzo(b)fluoranthene	23.046	252	6907	0.187	ng	# 93
38) Benzo(k)fluoranthene	23.046	252	6907	0.184	ng	94
39) Benzo(a)pyrene	23.651	252	5489	0.186	ng	# 92
40) Dibenzo(a,h)anthracene	26.165	278	5503	0.175	ng	# 90
41) Benzo(g,h,i)perylene	26.864	276	6566	0.186	ng	95

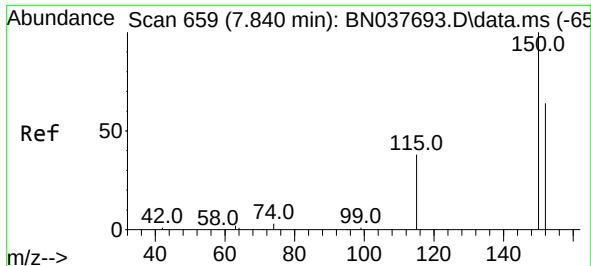
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091125\
Data File : BN037692.D
Acq On : 11 Sep 2025 10:32
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

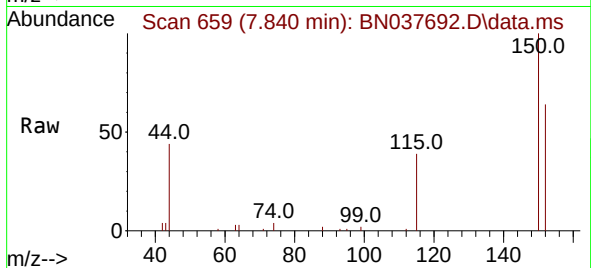
Quant Time: Sep 11 14:05:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:02:44 2025
Response via : Initial Calibration



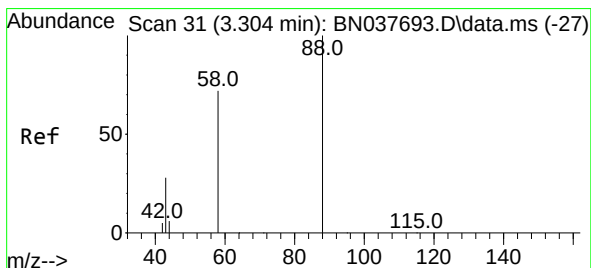
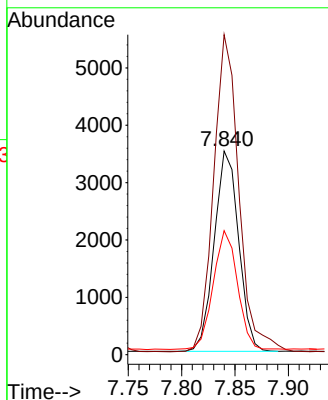
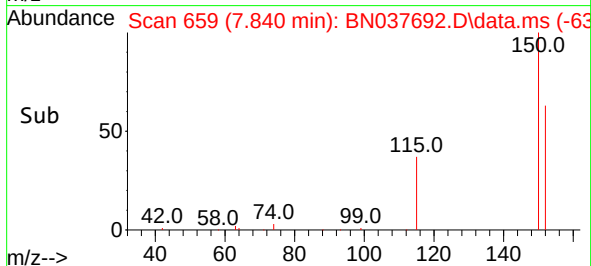


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.840 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

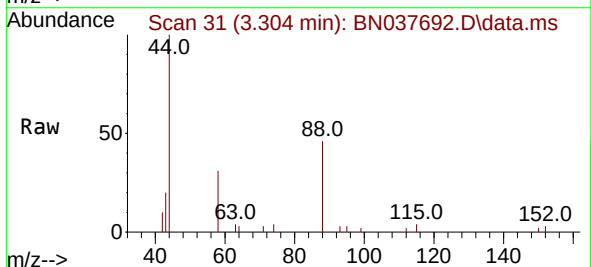
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



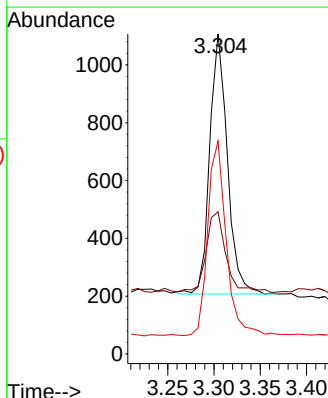
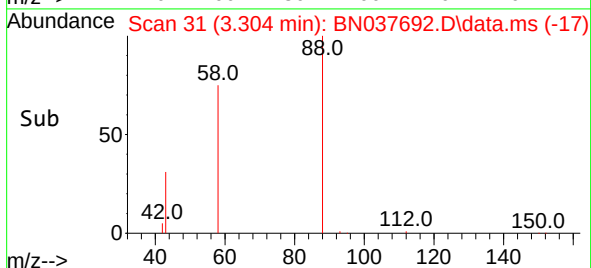
Tgt Ion:152 Resp: 5547
 Ion Ratio Lower Upper
 152 100
 150 157.2 124.5 186.7
 115 60.9 49.2 73.8

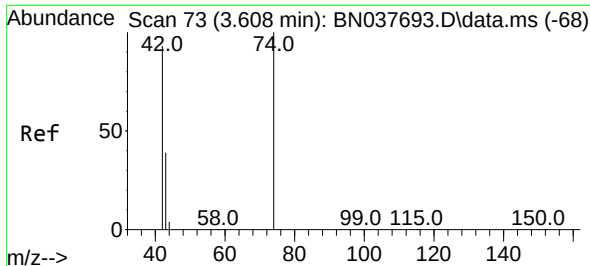


#2
 1,4-Dioxane
 Concen: 0.206 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32



Tgt Ion: 88 Resp: 1189
 Ion Ratio Lower Upper
 88 100
 43 34.1 26.8 40.2
 58 78.4 61.9 92.9

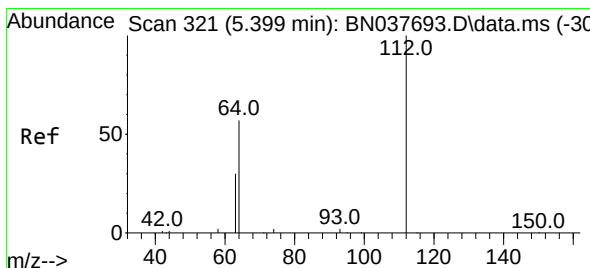
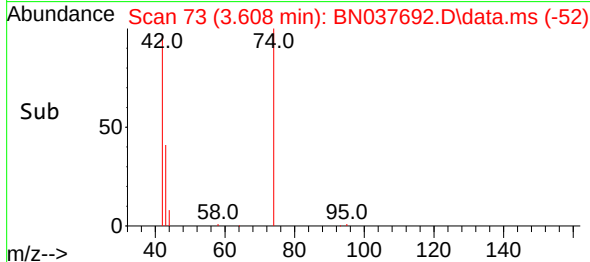
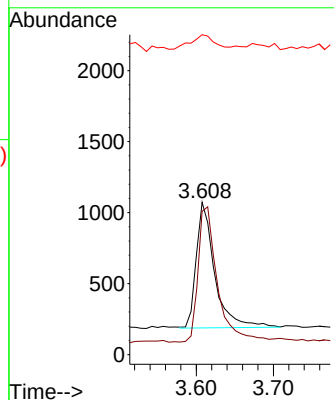
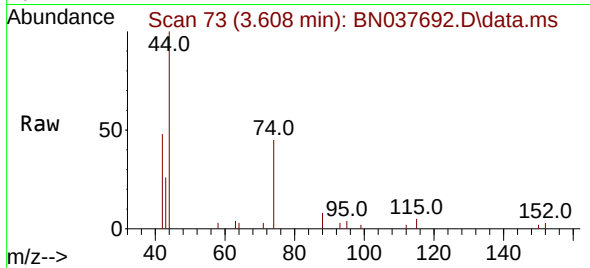




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.608 min Scan# 73
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

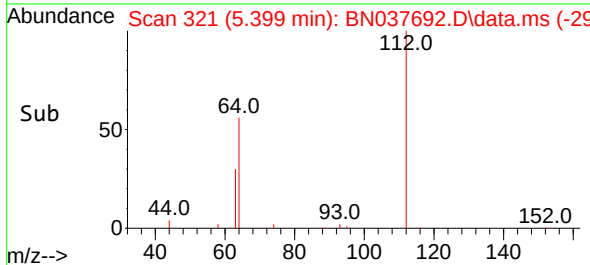
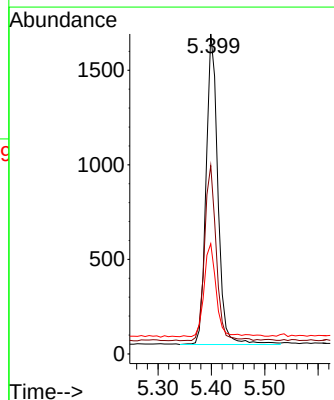
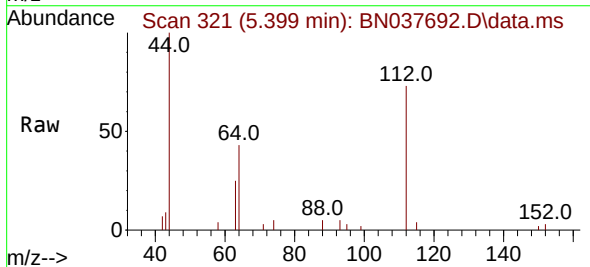
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

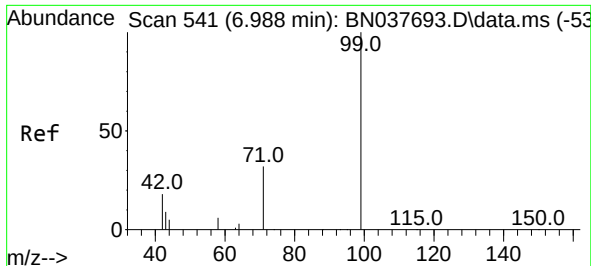
Tgt Ion: 42 Resp: 1470
Ion Ratio Lower Upper
42 100
74 113.6 86.0 129.0
44 16.2 8.4 12.6#



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

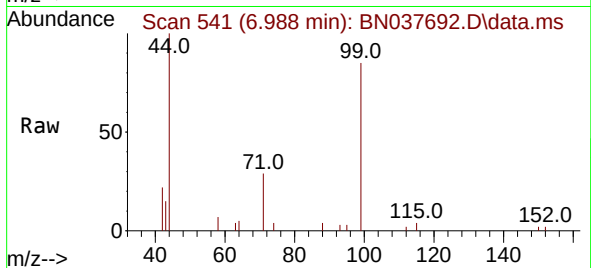
Tgt Ion: 112 Resp: 2533
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 30.4 24.7 37.1



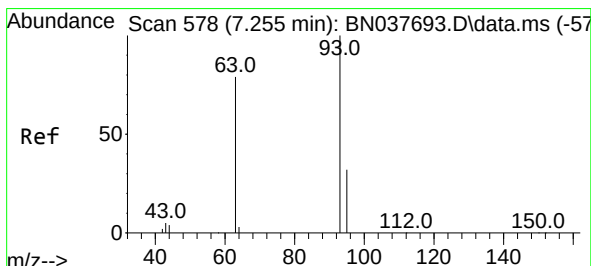
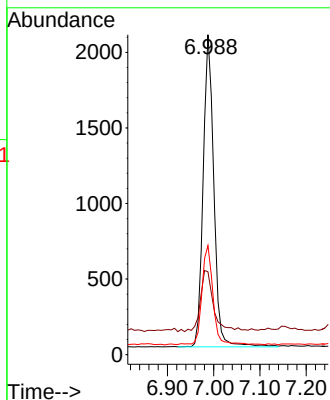
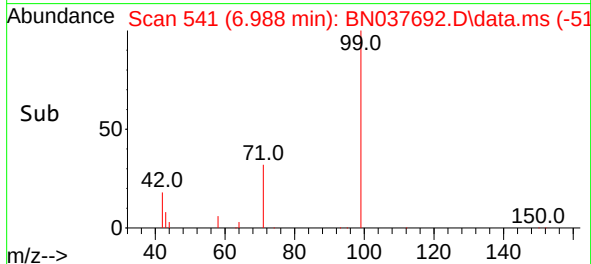


#5
Phenol-d6
Concen: 0.200 ng
RT: 6.988 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

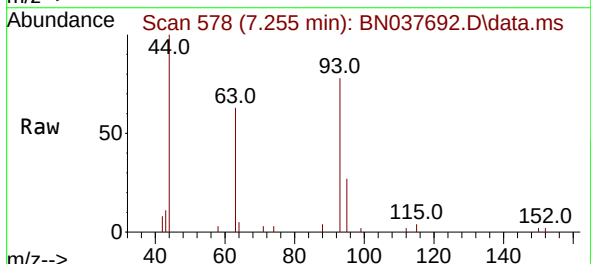
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



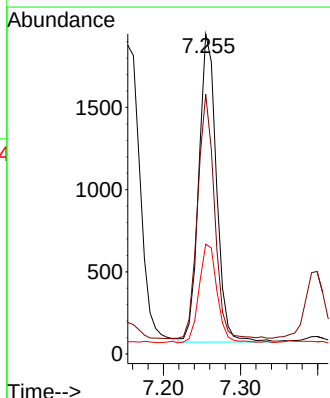
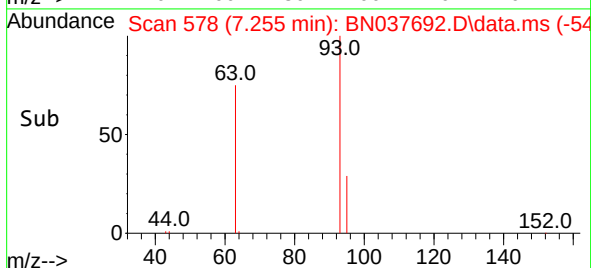
Tgt Ion:	99	Resp:	3308
Ion	Ratio	Lower	Upper
99	100		
42	24.3	16.6	24.8
71	32.8	26.7	40.1

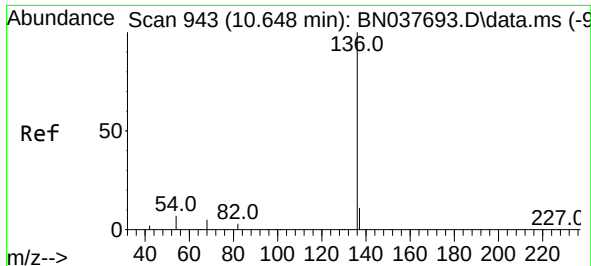


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.255 min Scan# 578
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32



Tgt Ion:	93	Resp:	2982
Ion	Ratio	Lower	Upper
93	100		
63	75.7	60.6	90.8
95	32.5	26.0	39.0

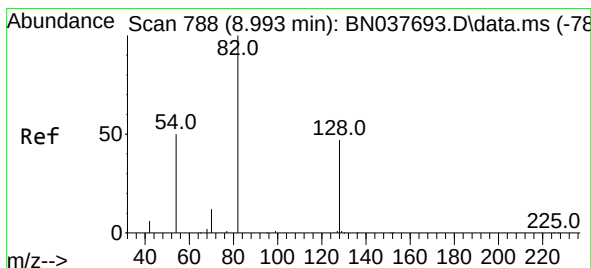
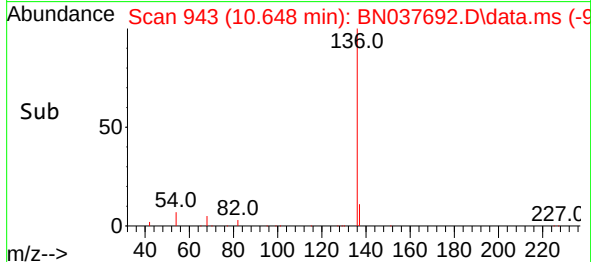
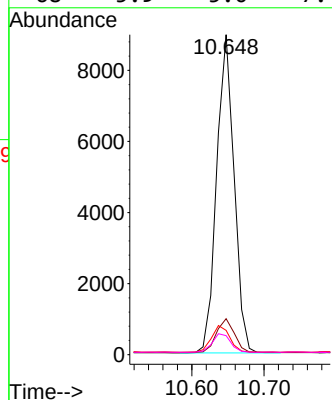
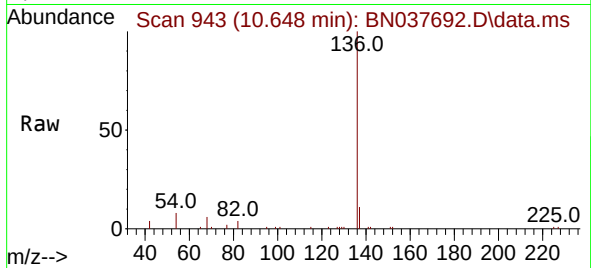




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

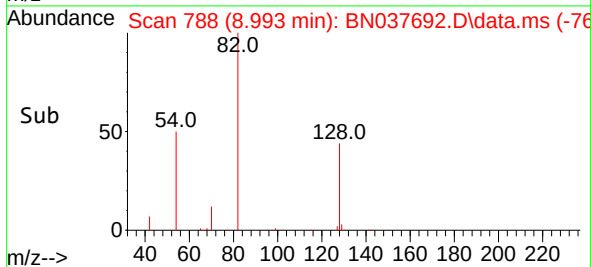
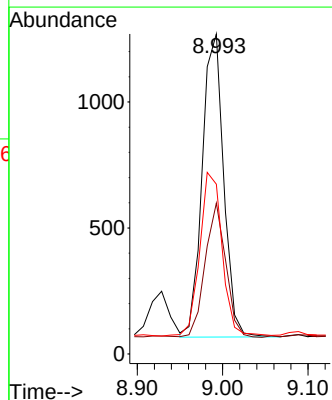
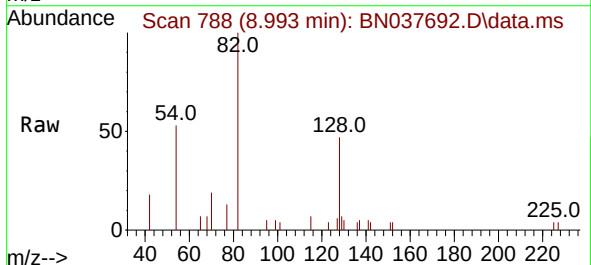
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

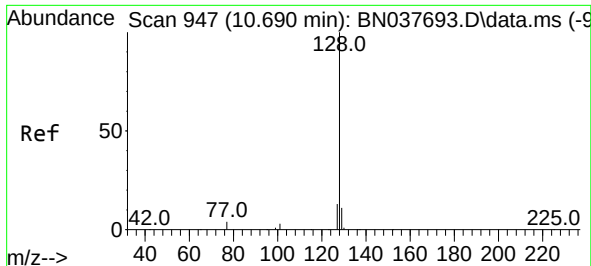
Tgt Ion:	136	Resp:	15018
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	7.6	6.3	9.5
68	5.9	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.191 ng
RT: 8.993 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:	82	Resp:	2098
Ion Ratio	Lower	Upper	
82	100		
128	47.2	38.3	57.5
54	53.1	41.4	62.2

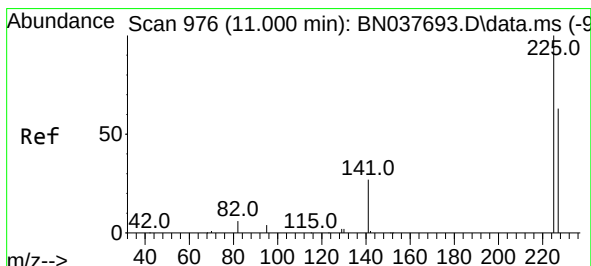
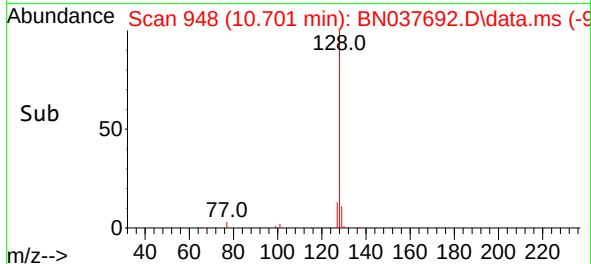
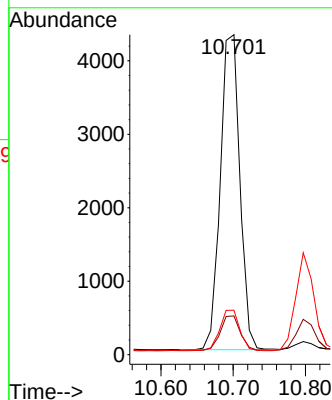
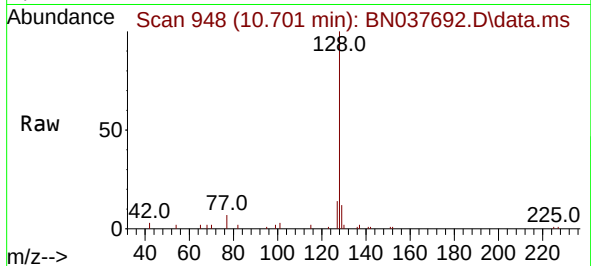




#9
Naphthalene
Concen: 0.196 ng
RT: 10.701 min Scan# 947
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

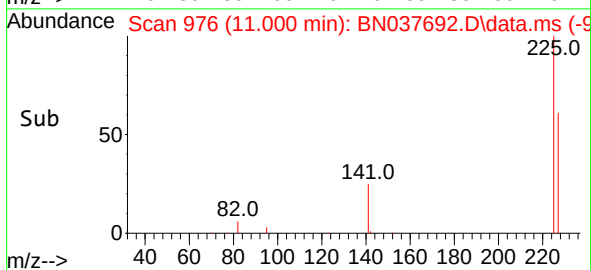
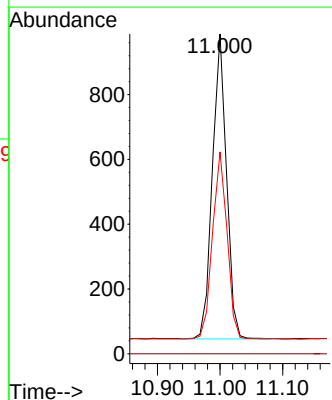
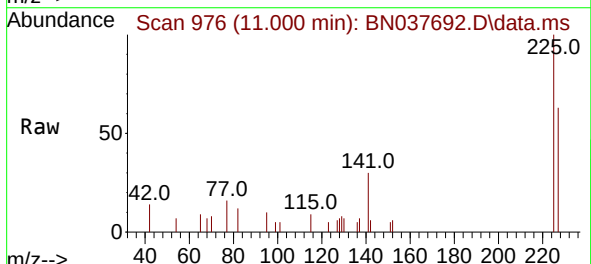
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

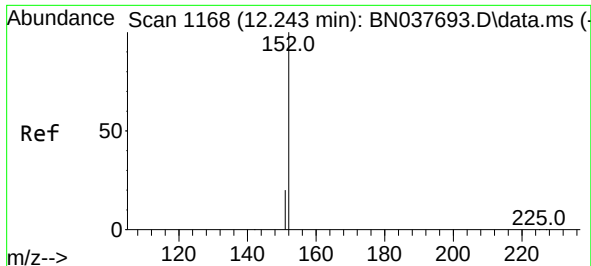
Tgt Ion:128	Resp:	8051
Ion Ratio	Lower	Upper
128	100	
129	12.1	9.1 13.7
127	13.9	10.9 16.3



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 11.000 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:225	Resp:	1472
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	63.2	50.9 76.3

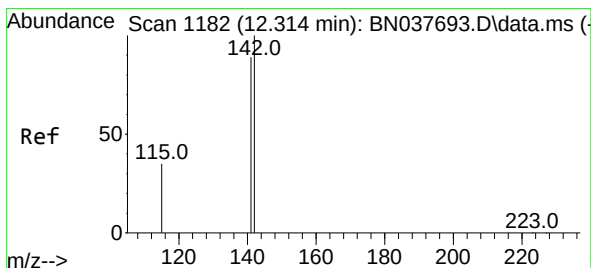
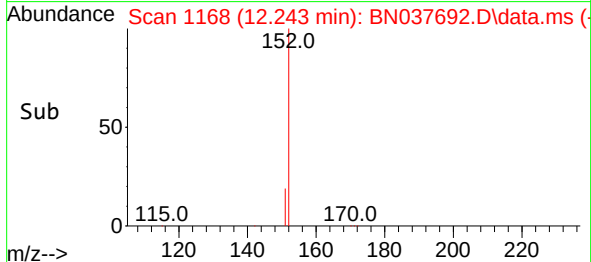
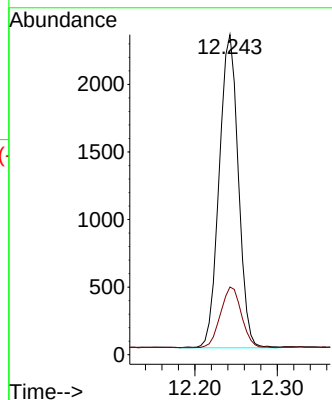
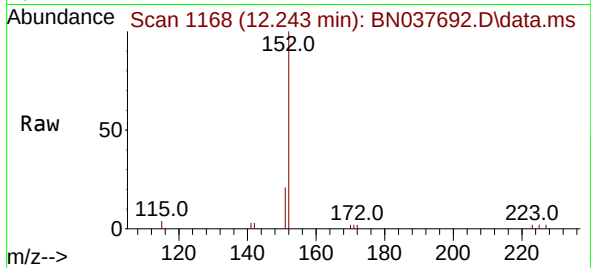




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

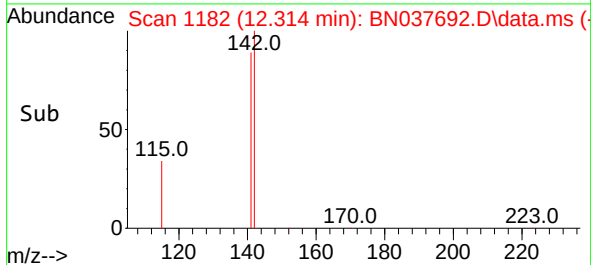
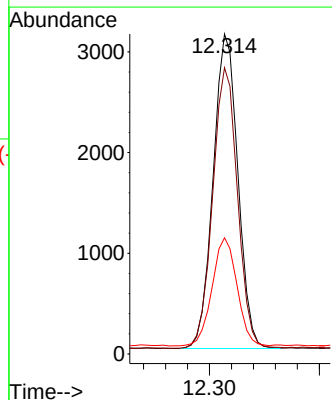
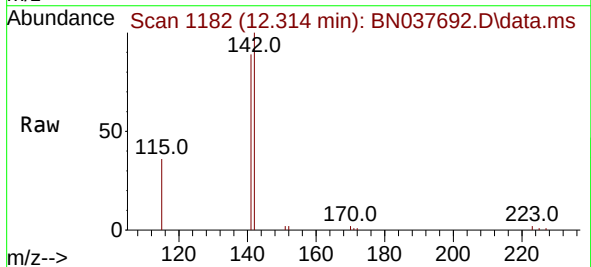
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

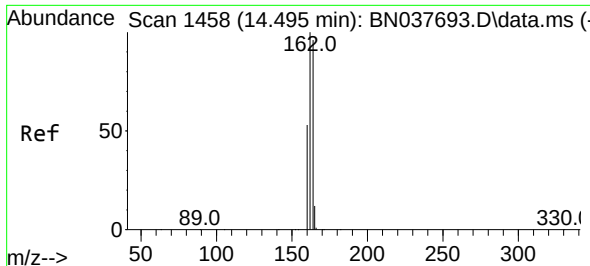
Tgt Ion:152 Resp: 3732
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.193 ng
RT: 12.314 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:142 Resp: 4889
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 36.3 28.6 43.0

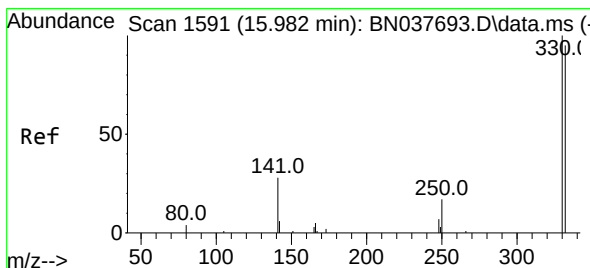
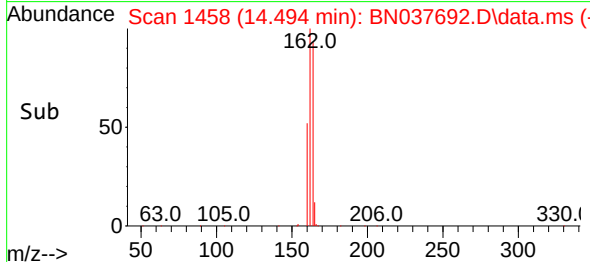
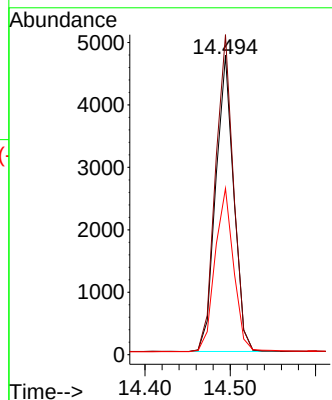
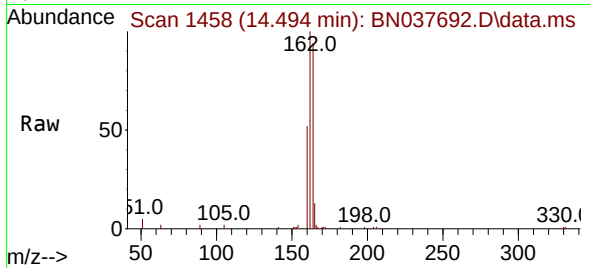




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

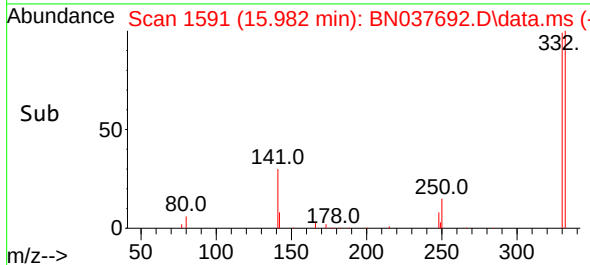
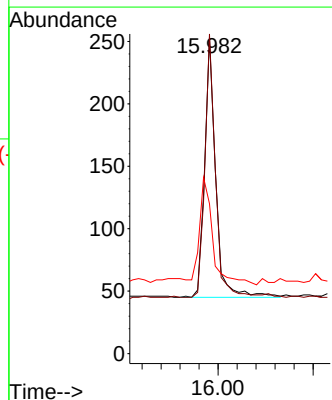
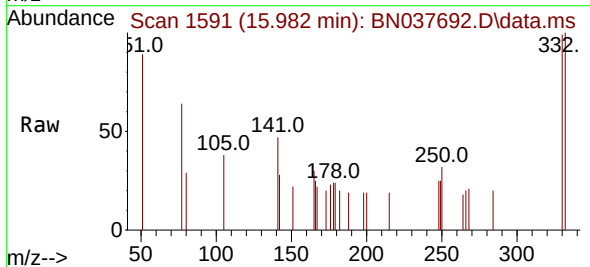
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

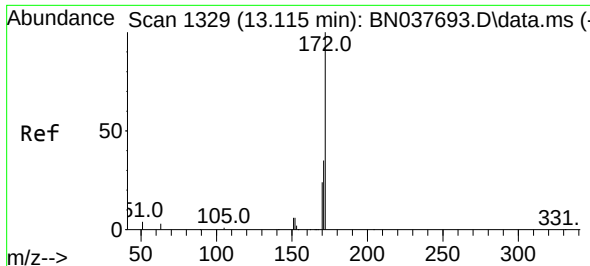
Tgt Ion:164 Resp: 6952
Ion Ratio Lower Upper
164 100
162 106.9 83.1 124.7
160 55.5 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:330 Resp: 340
Ion Ratio Lower Upper
330 100
332 95.6 75.3 112.9
141 49.4 35.0 52.4

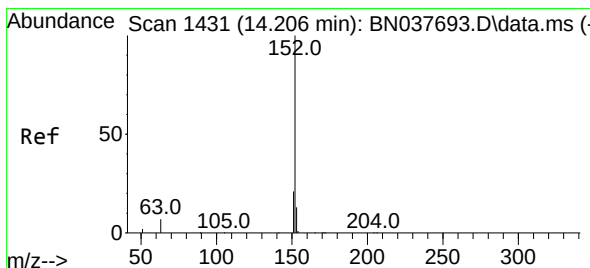
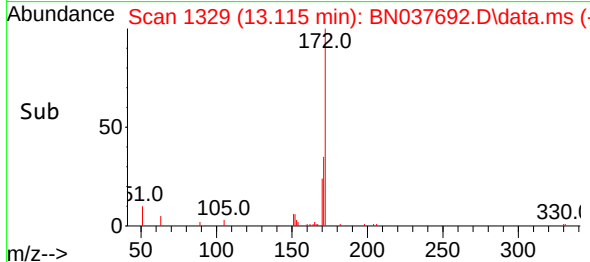
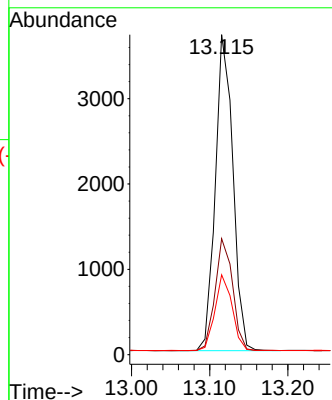
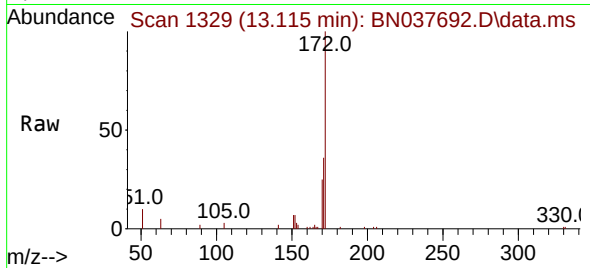




#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.115 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

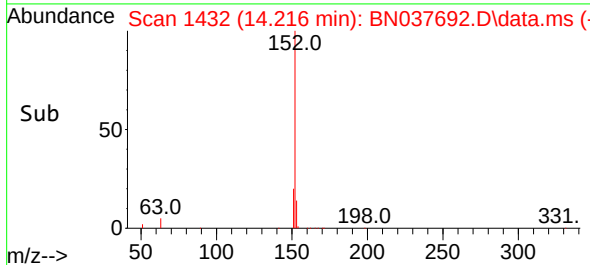
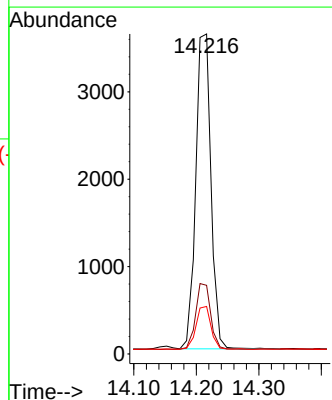
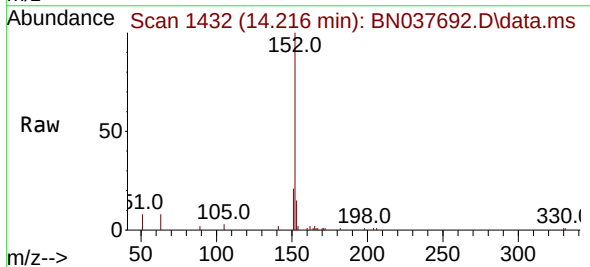
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

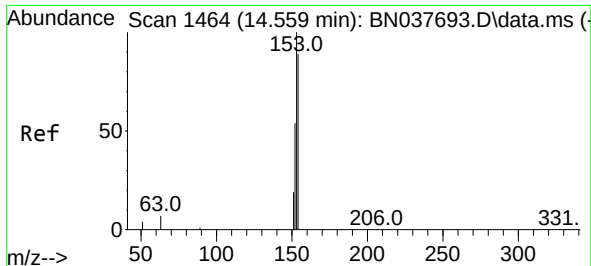
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.6	43.0
170	24.9	19.8	29.8



#16
Acenaphthylene
Concen: 0.191 ng
RT: 14.216 min Scan# 1432
Delta R.T. 0.011 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.2
153	13.8	10.4	15.6

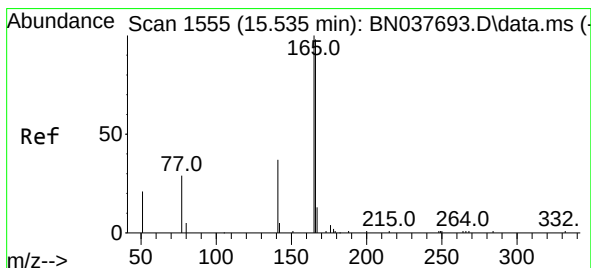
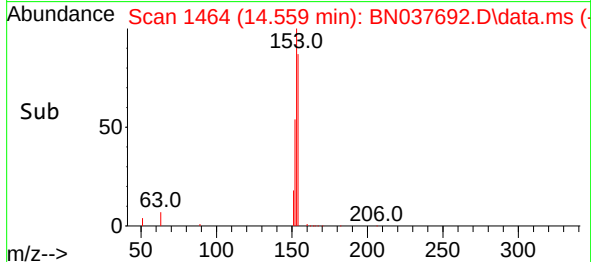
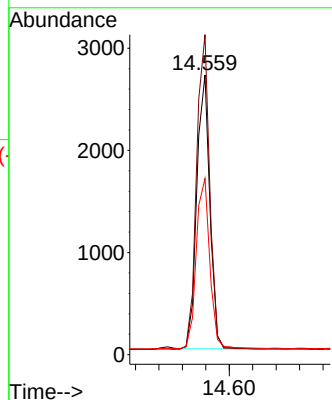
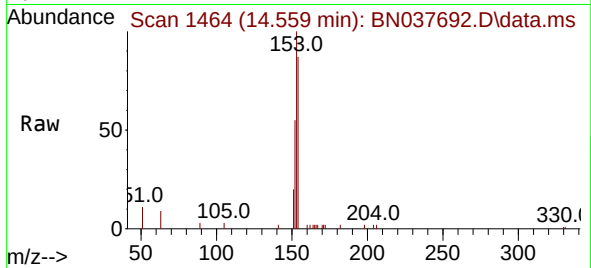




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.559 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

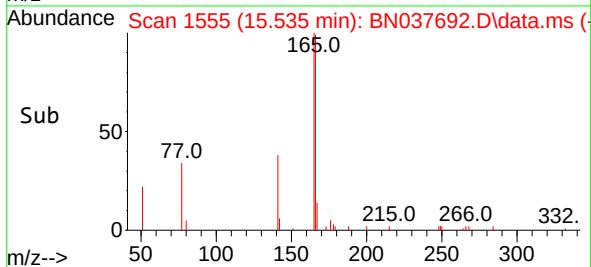
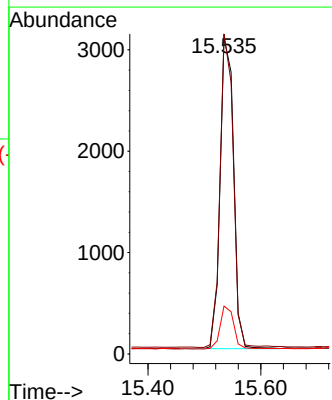
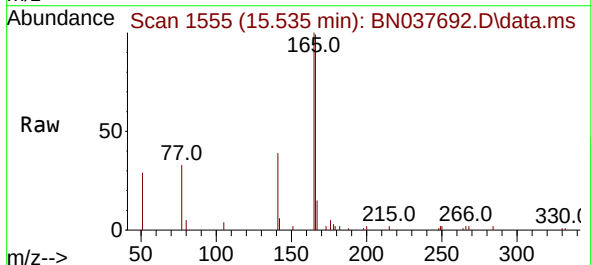
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

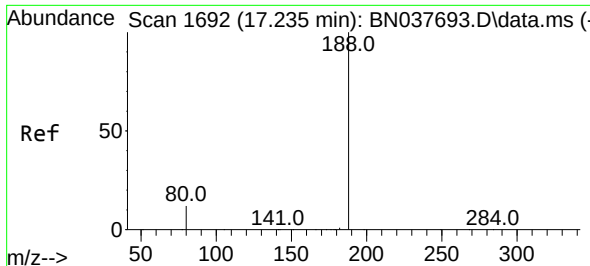
Tgt Ion:154 Resp: 4168
Ion Ratio Lower Upper
154 100
153 114.9 89.8 134.8
152 64.4 50.2 75.2



#18
Fluorene
Concen: 0.187 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:166 Resp: 4875
Ion Ratio Lower Upper
166 100
165 102.3 79.6 119.4
167 14.5 10.6 16.0

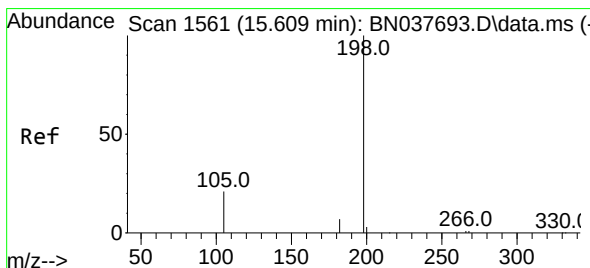
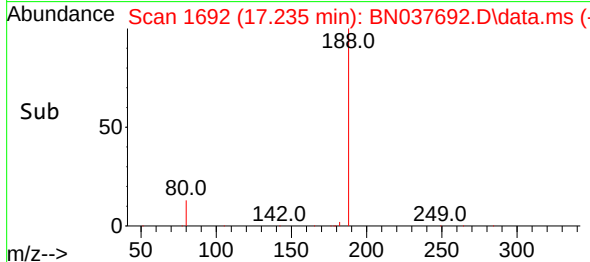
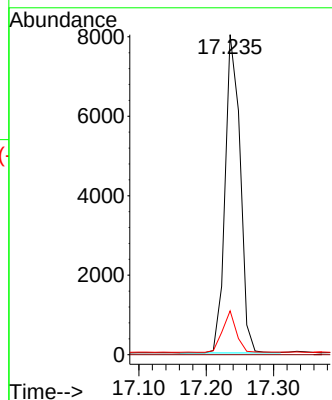
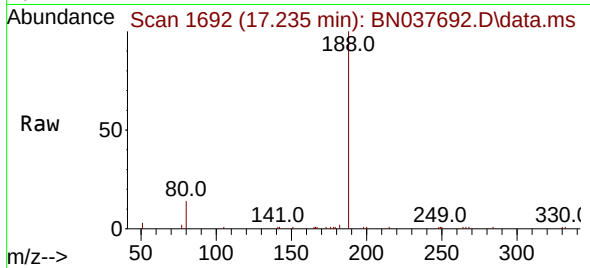




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

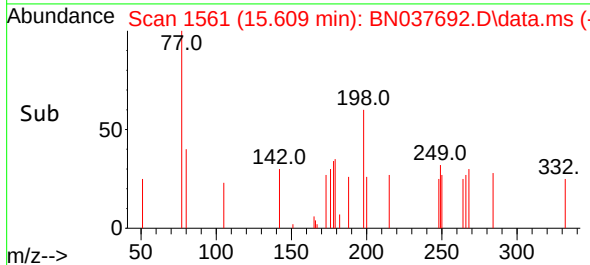
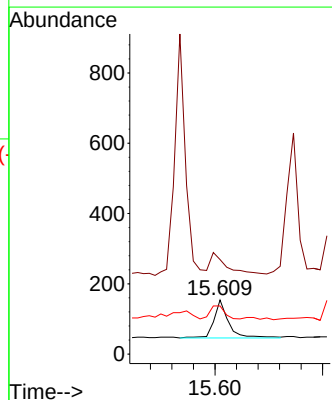
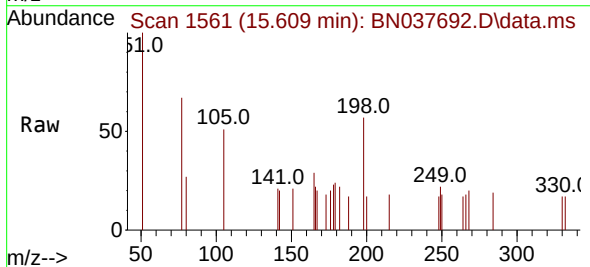
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

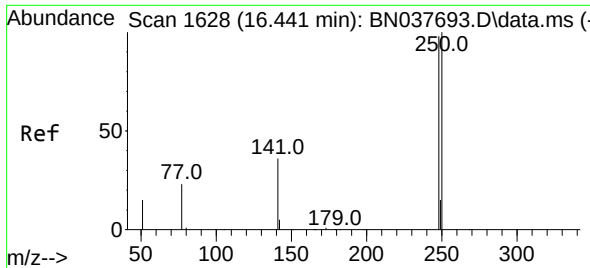
Tgt Ion:188 Resp: 12385
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.6 15.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.175 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:198 Resp: 201
Ion Ratio Lower Upper
198 100
51 174.7 95.1 142.7#
105 89.0 53.8 80.6#

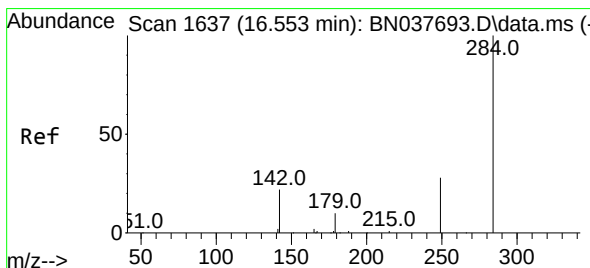
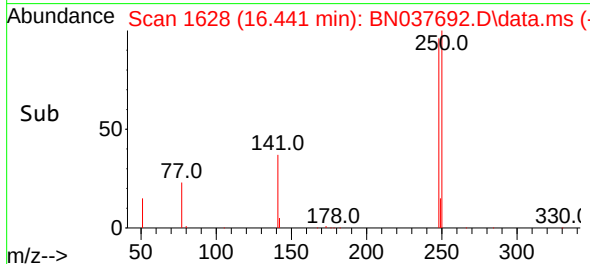
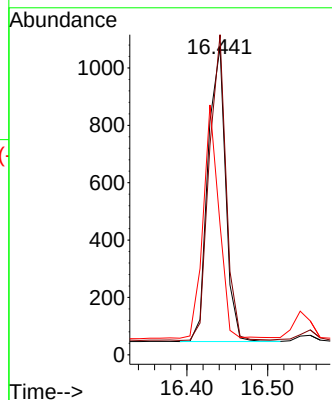
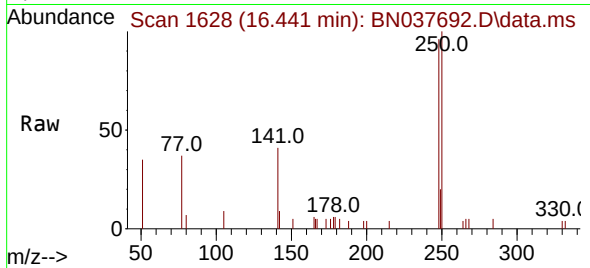




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

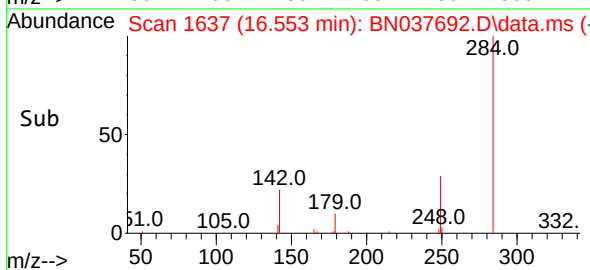
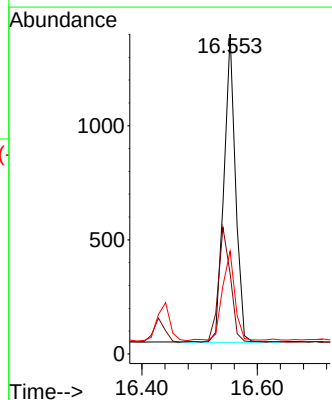
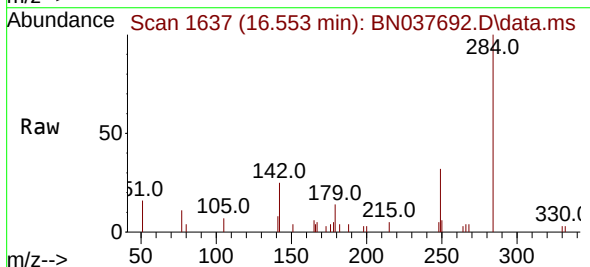
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

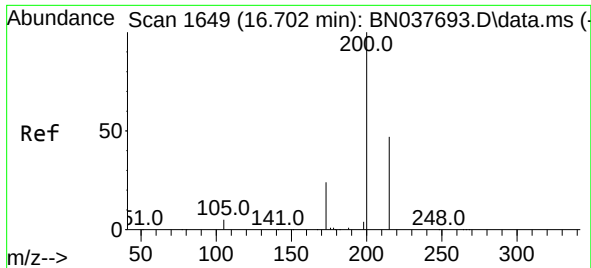
Tgt Ion:	248	Resp:	1560
Ion Ratio	Lower	Upper	
248	100		
250	104.0	81.5	122.3
141	42.3	30.8	46.2



#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:	284	Resp:	1906
Ion Ratio	Lower	Upper	
284	100		
142	38.4	30.9	46.3
249	31.4	24.8	37.2

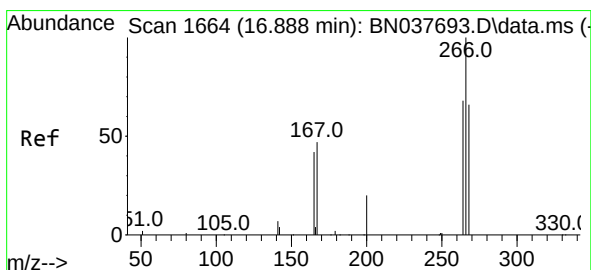
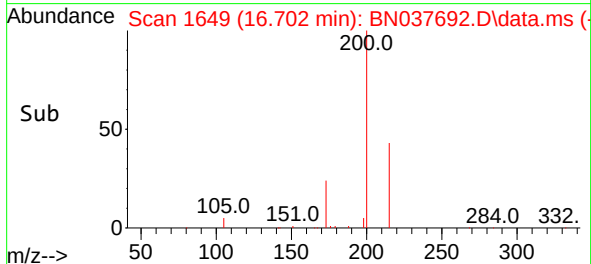
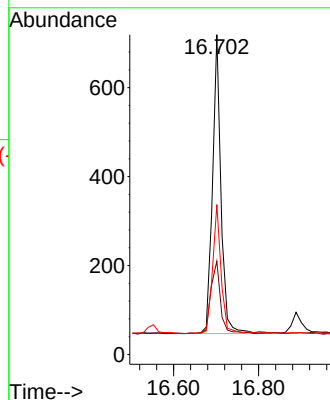
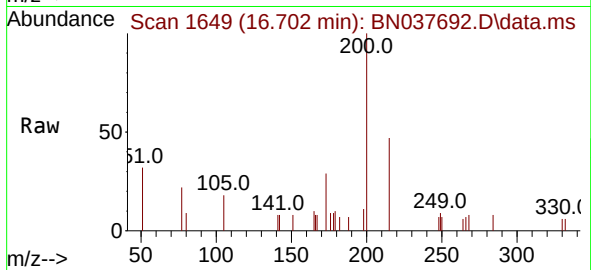




#23
 Atrazine
 Concen: 0.181 ng
 RT: 16.702 min Scan# 1649
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

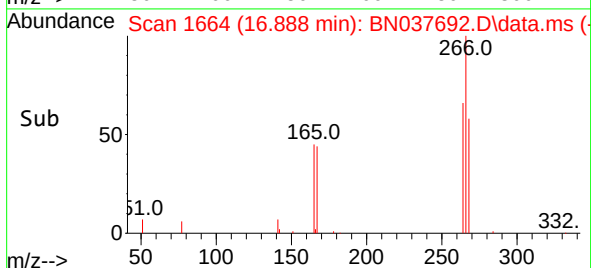
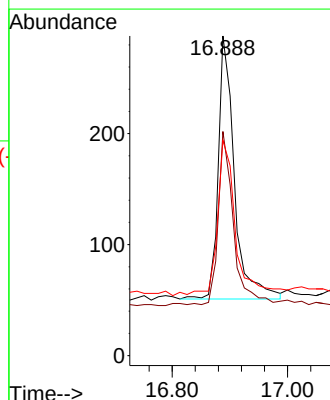
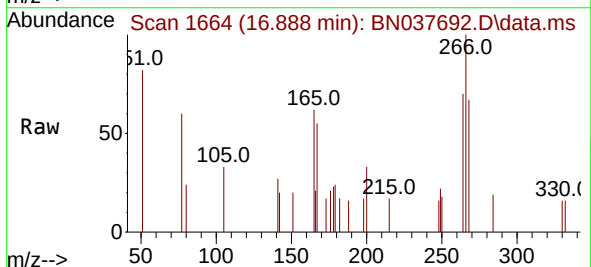
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

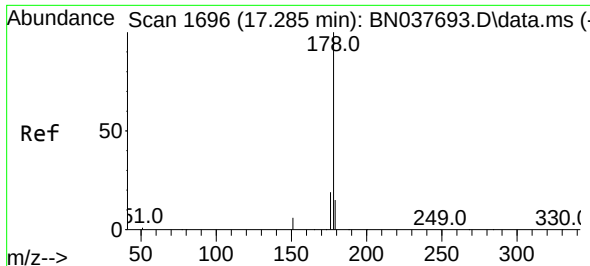
Tgt Ion:	200	Resp:	932
Ion Ratio	Lower	Upper	
200	100		
173	29.2	21.4	32.2
215	46.9	39.2	58.8



#24
 Pentachlorophenol
 Concen: 0.171 ng
 RT: 16.888 min Scan# 1664
 Delta R.T. -0.000 min
 Lab File: BN037692.D
 Acq: 11 Sep 2025 10:32

Tgt Ion:	266	Resp:	461
Ion Ratio	Lower	Upper	
266	100		
264	61.6	51.6	77.4
268	67.5	53.2	79.8

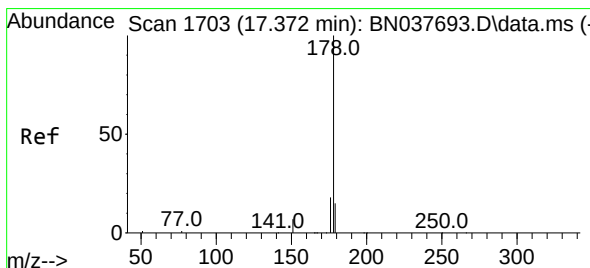
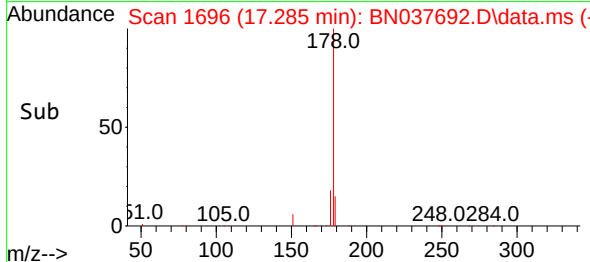
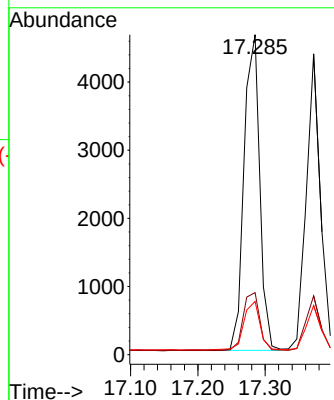
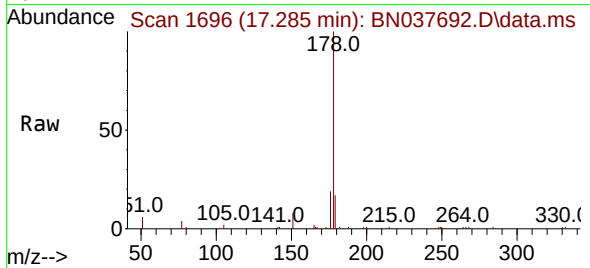




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.285 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

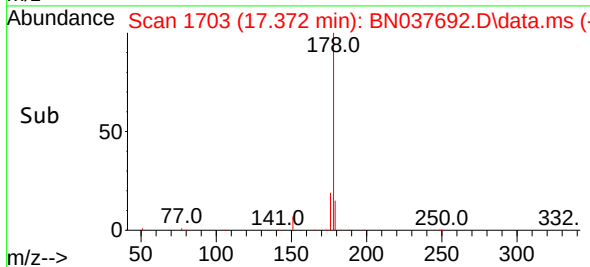
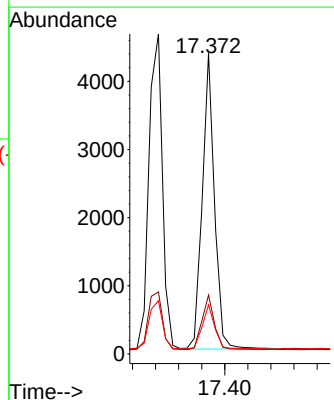
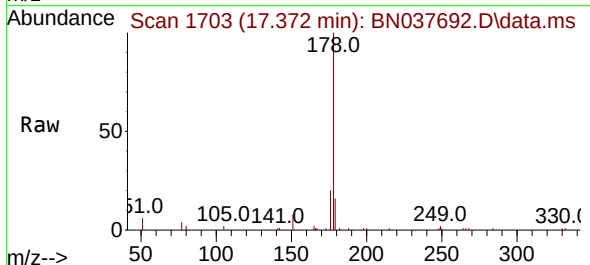
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

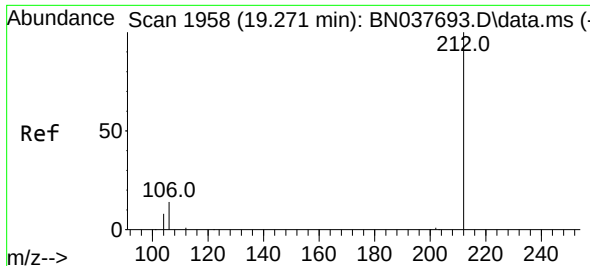
Tgt Ion:178 Resp: 7526
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 15.7 12.2 18.2



#26
Anthracene
Concen: 0.185 ng
RT: 17.372 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:178 Resp: 6375
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4

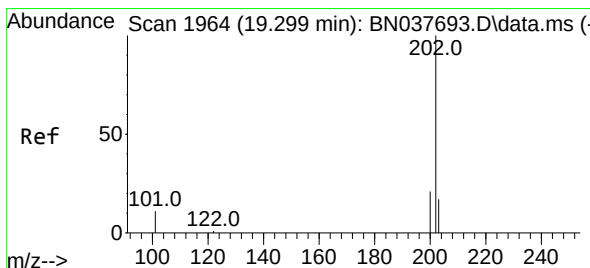
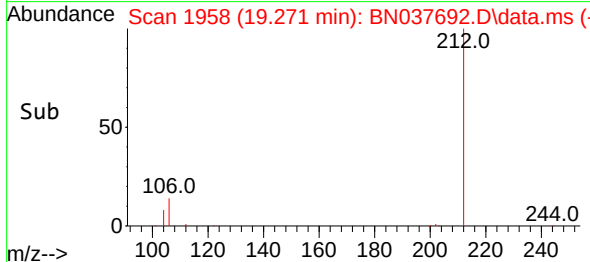
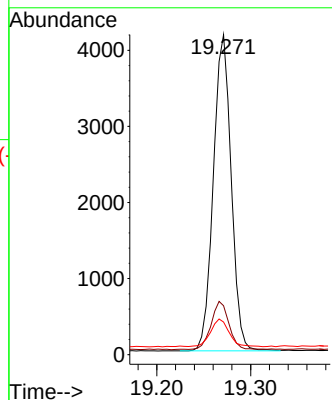
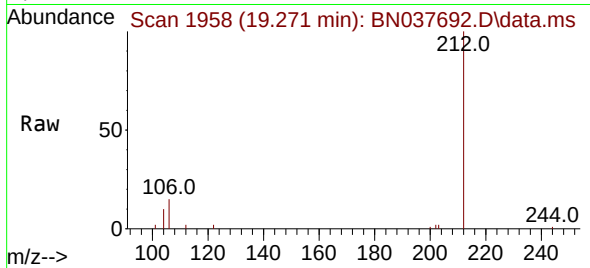




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 19.271 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

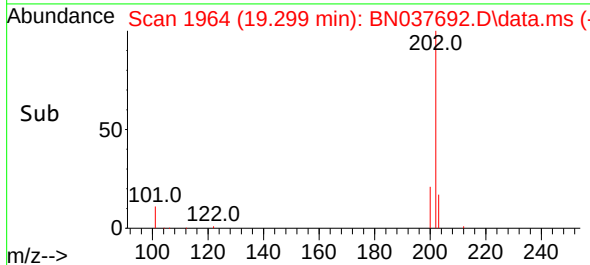
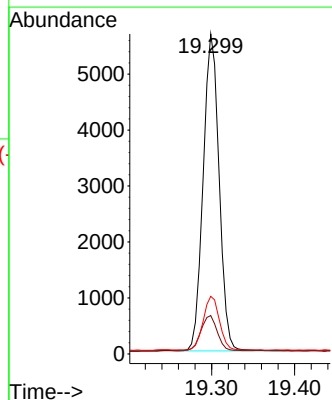
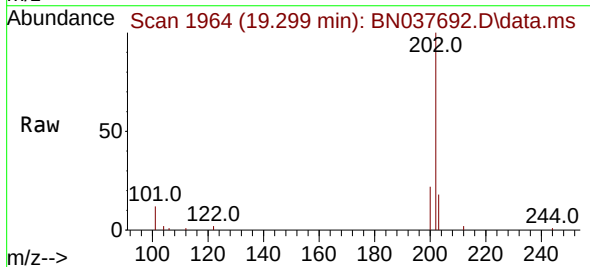
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

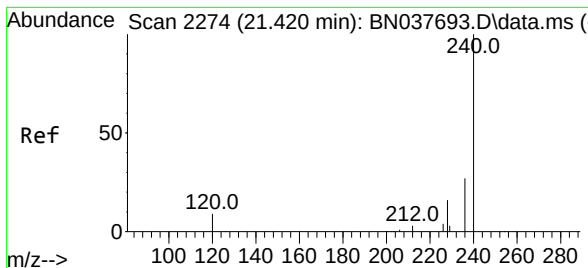
Tgt Ion:	212	Resp:	5492
Ion Ratio	Lower	Upper	
212	100		
106	15.4	12.2	18.2
104	9.0	6.9	10.3



#28
Fluoranthene
Concen: 0.177 ng
RT: 19.299 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion:	202	Resp:	7577
Ion Ratio	Lower	Upper	
202	100		
101	11.7	9.3	13.9
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

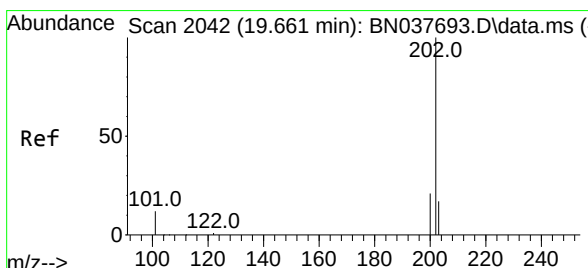
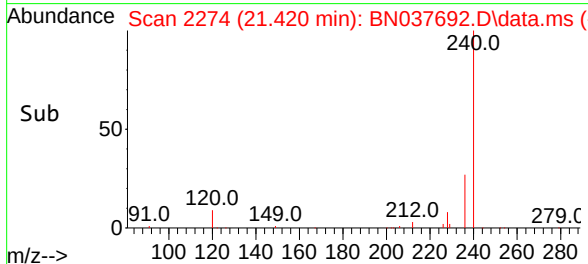
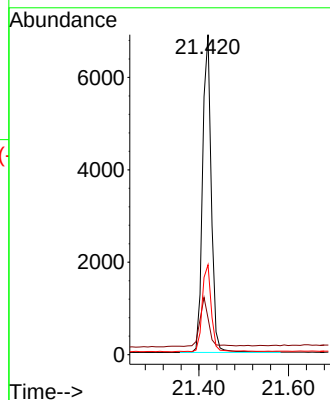
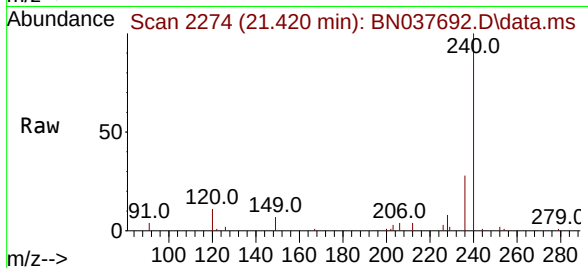
Tgt Ion:240 Resp: 9324

Ion Ratio Lower Upper

240 100

120 11.4 9.2 13.8

236 28.1 22.6 33.8



#30

Pyrene

Concen: 0.207 ng

RT: 19.661 min Scan# 2042

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

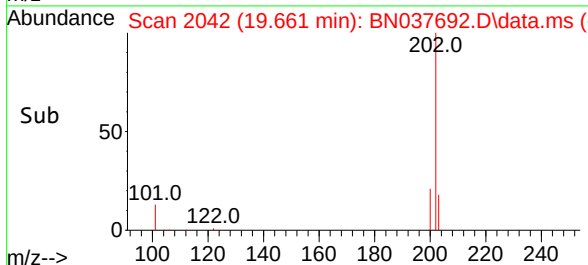
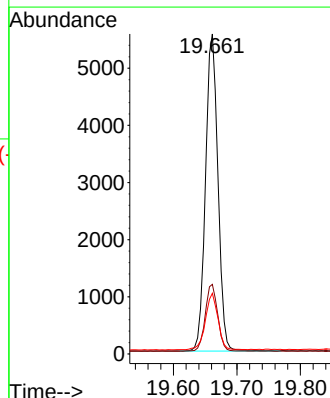
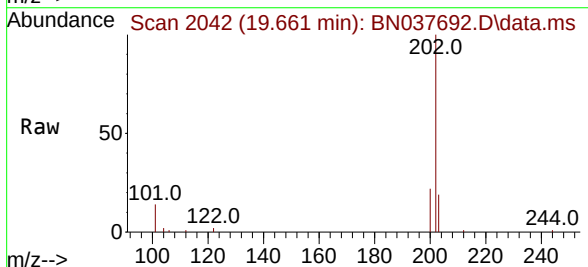
Tgt Ion:202 Resp: 7543

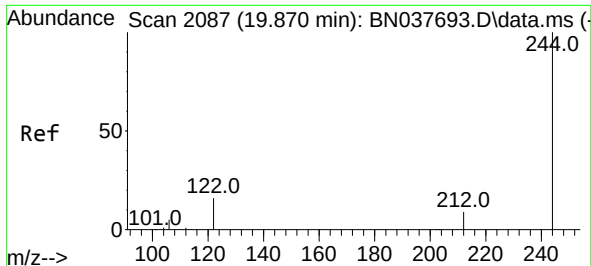
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 18.3 14.3 21.5

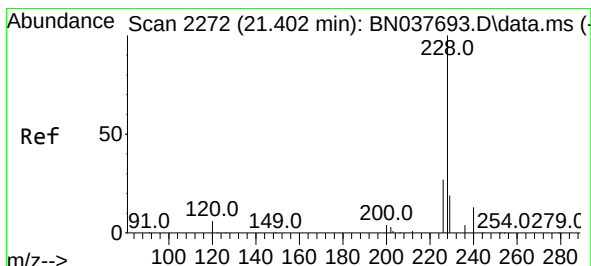
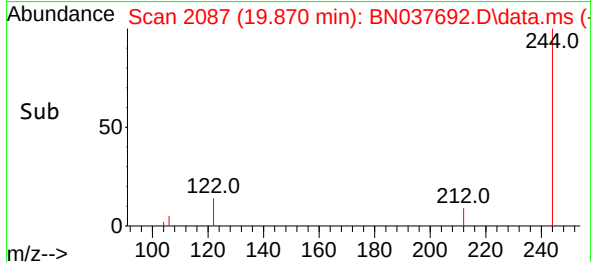
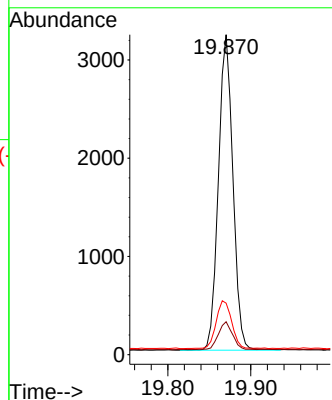
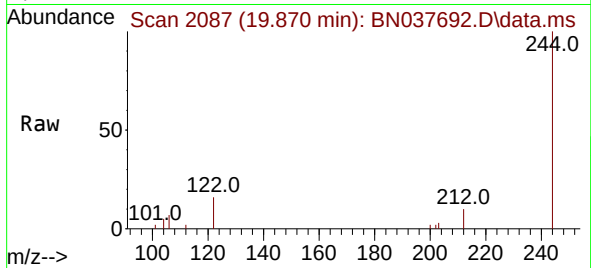




#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.870 min Scan# 2087
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

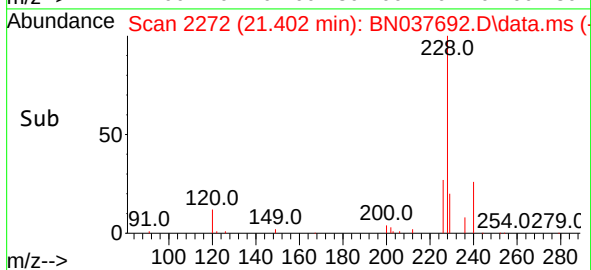
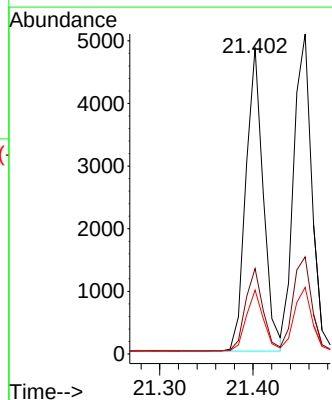
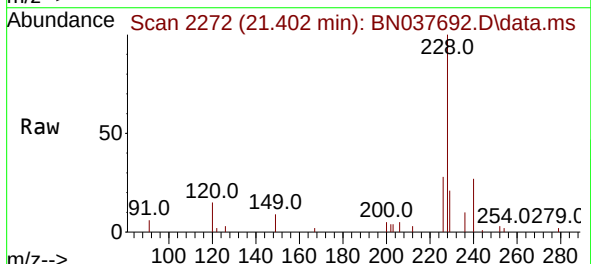
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

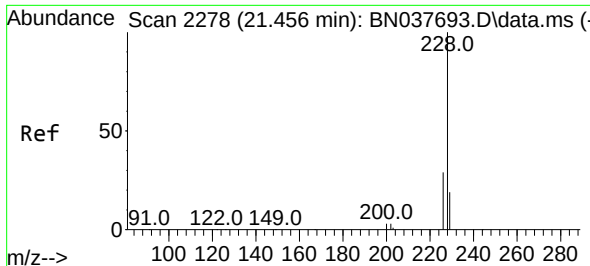
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.5	11.3
122	16.1	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	20.8	15.8	23.6





#33

Chrysene

Concen: 0.199 ng

RT: 21.456 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

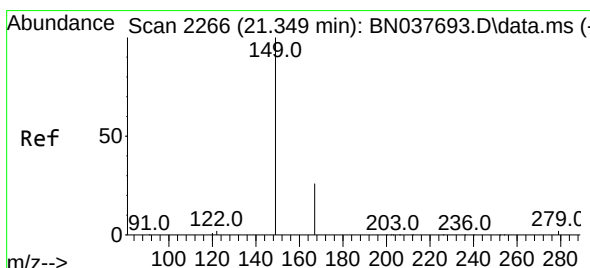
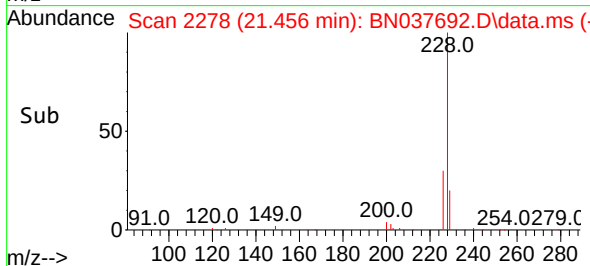
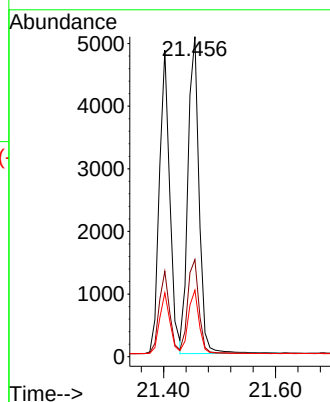
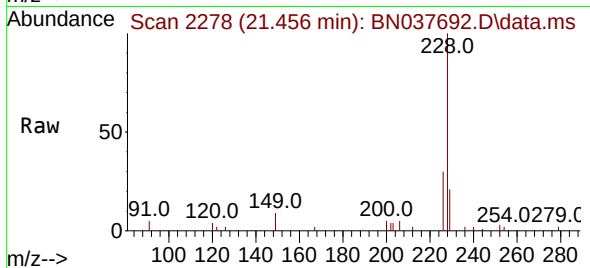
Tgt Ion:228 Resp: 6953

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

229 20.8 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.213 ng

RT: 21.348 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037692.D

Acq: 11 Sep 2025 10:32

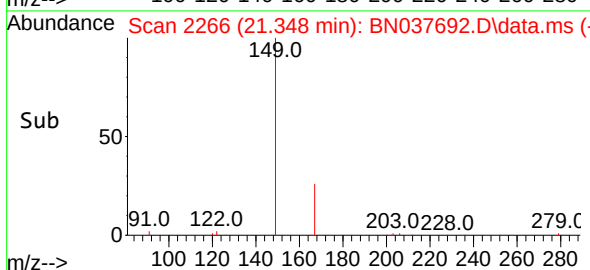
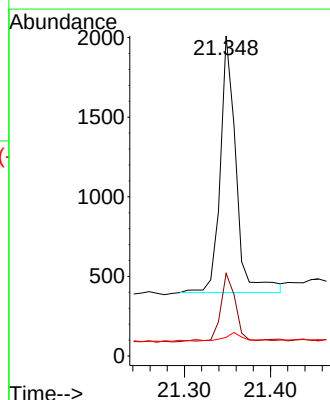
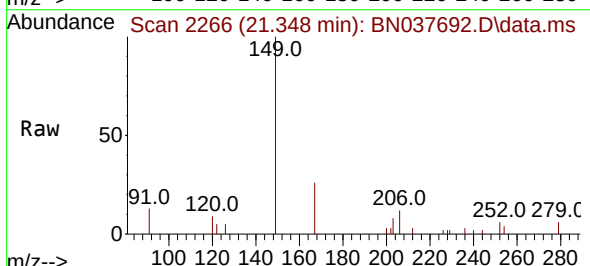
Tgt Ion:149 Resp: 2049

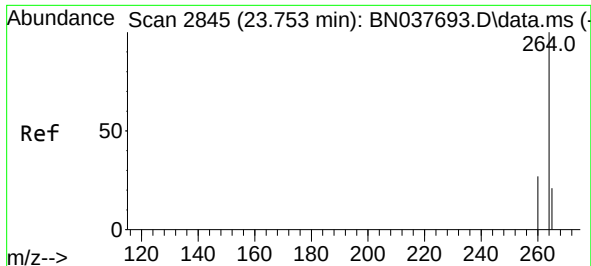
Ion Ratio Lower Upper

149 100

167 24.7 20.8 31.2

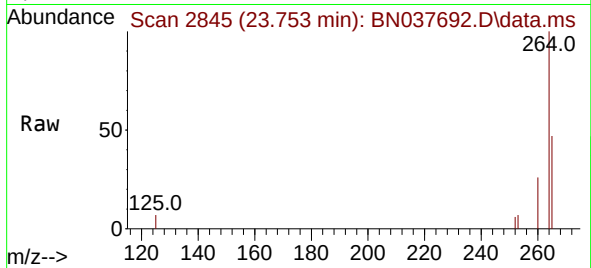
279 3.1 3.3 4.9#



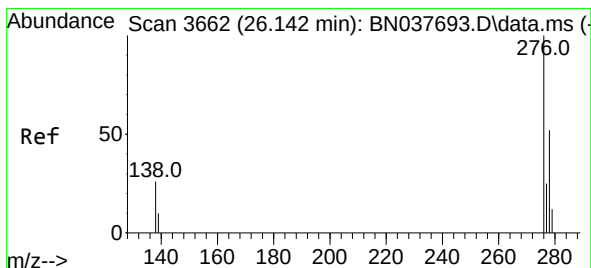
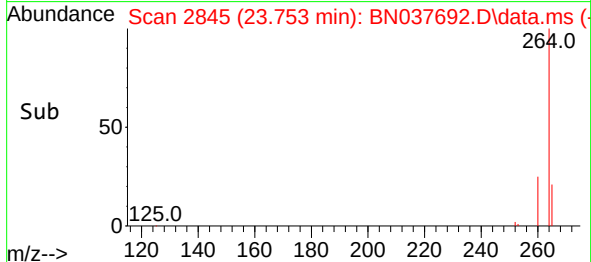
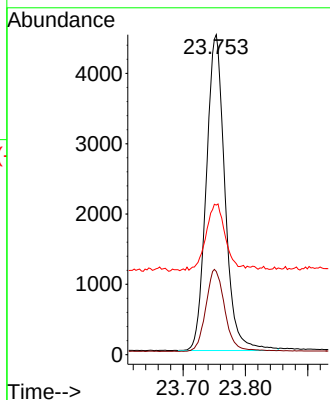


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.753 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

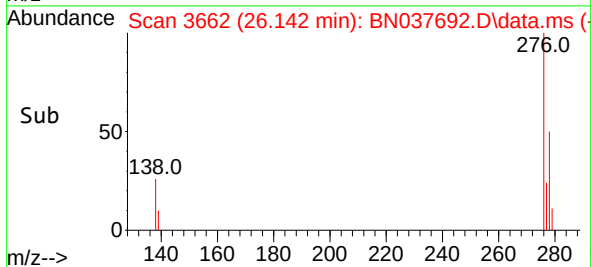
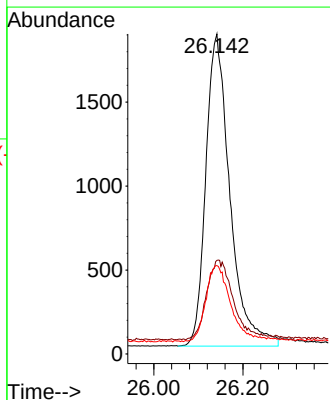
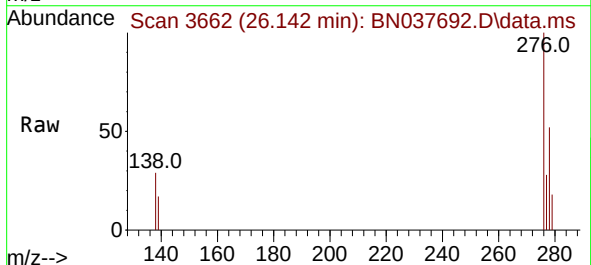


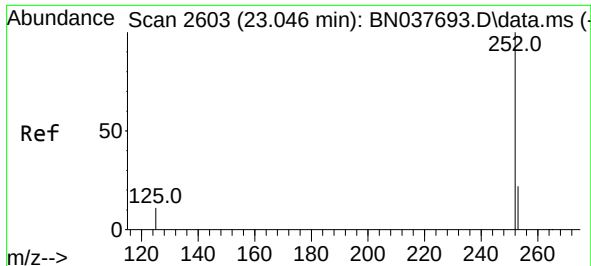
Tgt Ion:	264	Resp:	9364
Ion Ratio	Lower	Upper	
264	100		
260	26.0	21.8	32.8
265	46.7	39.4	59.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.177 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

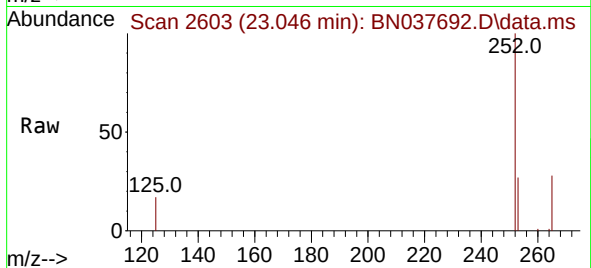
Tgt Ion:	276	Resp:	6982
Ion Ratio	Lower	Upper	
276	100		
138	28.1	21.9	32.9
277	24.6	20.1	30.1



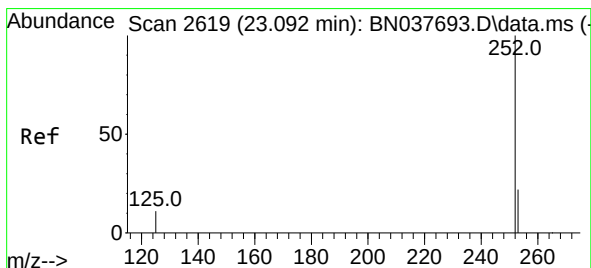
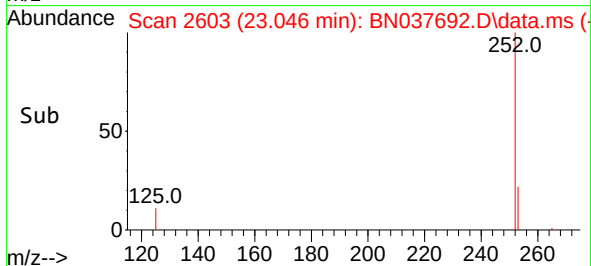
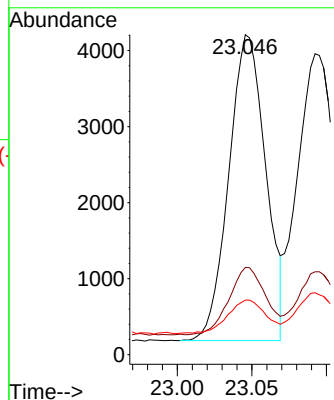


#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.000 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

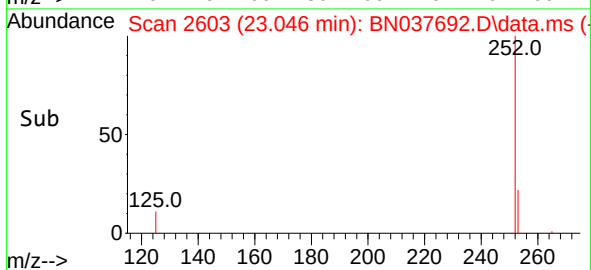
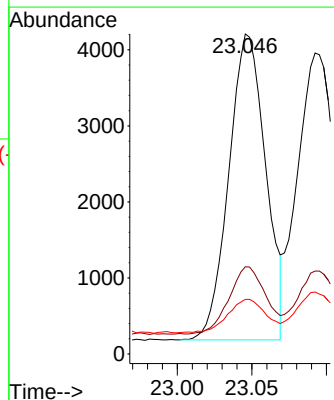
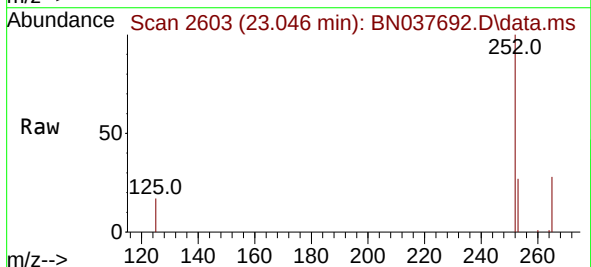


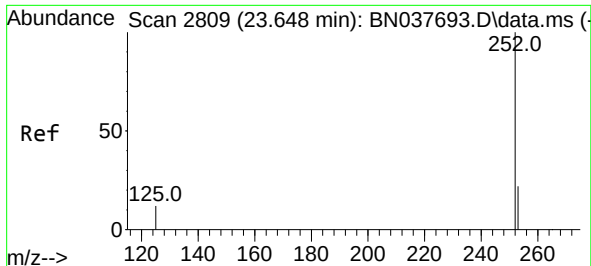
Tgt Ion:252 Resp: 6907
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.2
125 17.0 11.2 16.8#



#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 23.046 min Scan# 2603
Delta R.T. -0.047 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

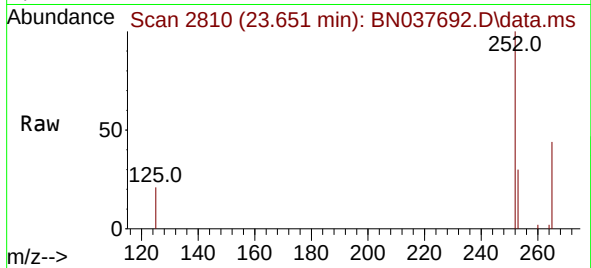
Tgt Ion:252 Resp: 6907
Ion Ratio Lower Upper
252 100
253 27.3 19.4 29.0
125 17.0 11.6 17.4



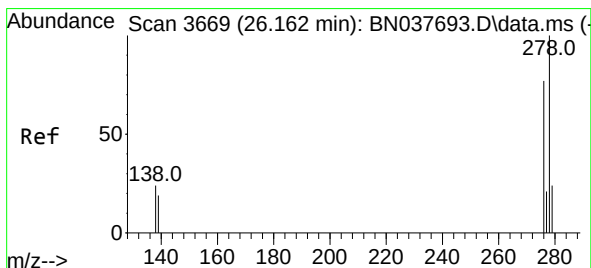
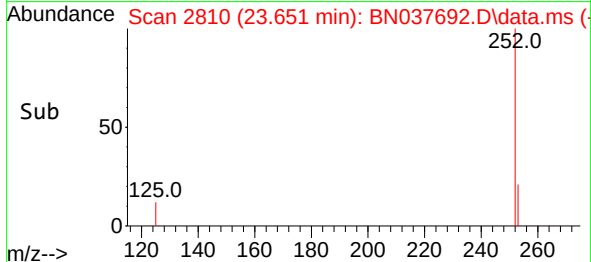
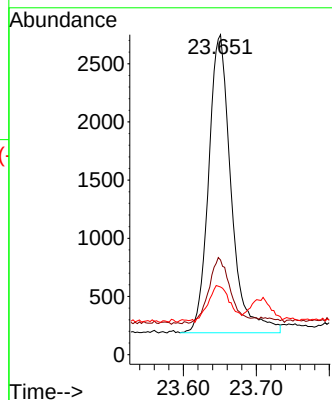


#39
Benzo(a)pyrene
Concen: 0.186 ng
RT: 23.651 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

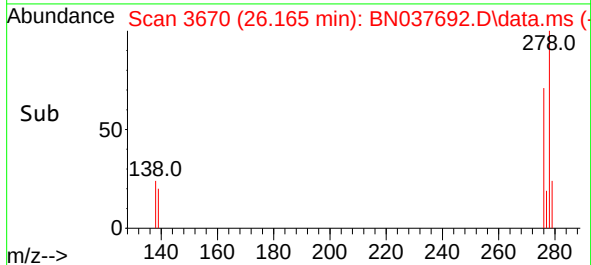
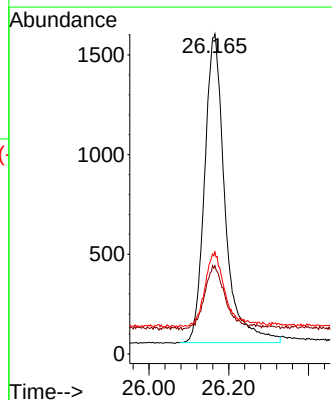
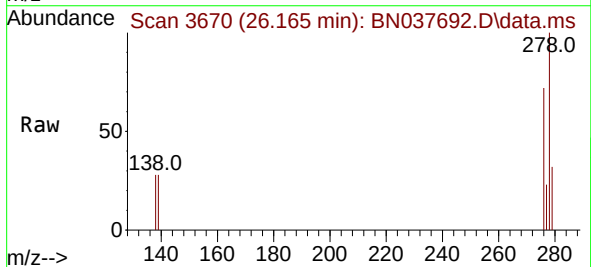


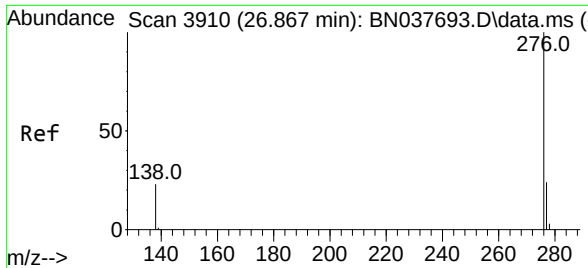
Tgt Ion:252 Resp: 5489
Ion Ratio Lower Upper
252 100
253 29.6 20.8 31.2
125 21.1 13.9 20.9#



#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 26.165 min Scan# 3670
Delta R.T. 0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

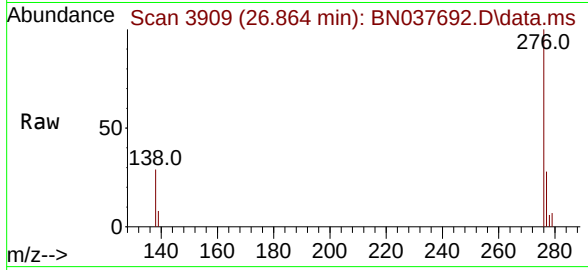
Tgt Ion:278 Resp: 5503
Ion Ratio Lower Upper
278 100
139 27.6 17.8 26.6#
279 31.9 22.0 33.0



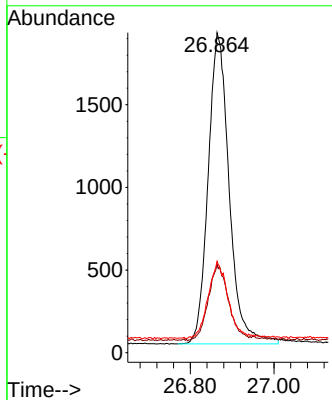
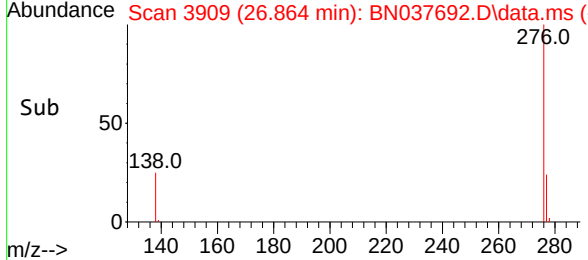


#41
Benzo(g,h,i)perylene
Concen: 0.186 ng
RT: 26.864 min Scan# 3910
Delta R.T. -0.003 min
Lab File: BN037692.D
Acq: 11 Sep 2025 10:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:	276	Resp:	6566
Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.6	31.0
138	28.6	20.2	30.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
 Data File : BN037792.D
 Acq On : 19 Sep 2025 00:16
 Operator : RC/JU
 Sample : PB169693BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

Quant Time: Sep 19 04:12:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 14:20:01 2025
 Response via : Initial Calibration

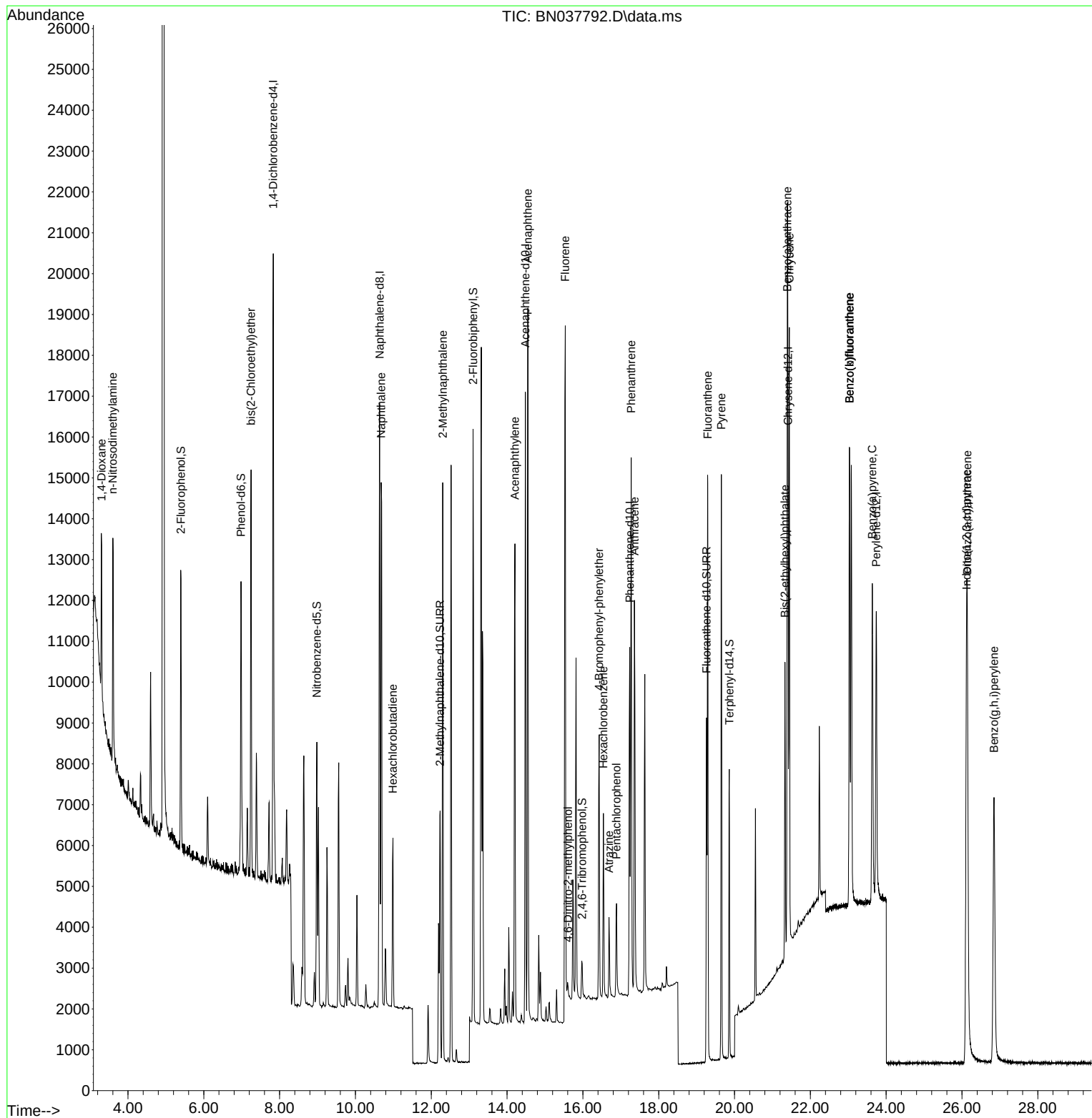
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	19392	0.400	ng	-0.01
13) Acenaphthene-d10	14.484	164	8149	0.400	ng	-0.01
19) Phenanthrene-d10	17.235	188	12386	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	10095	0.400	ng	0.00
35) Perylene-d12	23.738	264	10200	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	5555	0.325	ng	0.00
5) Phenol-d6	6.980	99	6563	0.296	ng	0.00
8) Nitrobenzene-d5	8.982	82	5088	0.359	ng	-0.01
11) 2-Methylnaphthalene-d10	12.232	152	7932	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.982	330	674	0.317	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	12492	0.367	ng	-0.01
27) Fluoranthene-d10	19.262	212	9050	0.291	ng	0.00
31) Terphenyl-d14	19.861	244	6591	0.322	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.304	88	2366	0.305	ng	# 85
3) n-Nitrosodimethylamine	3.600	42	3300	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.248	93	6941	0.351	ng	100
9) Naphthalene	10.680	128	17810	0.336	ng	99
10) Hexachlorobutadiene	10.989	225	3379	0.352	ng	# 99
12) 2-Methylnaphthalene	12.303	142	9820	0.299	ng	99
16) Acenaphthylene	14.206	152	13377	0.358	ng	99
17) Acenaphthene	14.548	154	8509	0.337	ng	99
18) Fluorene	15.535	166	9452	0.309	ng	99
20) 4,6-Dinitro-2-methylph...	15.609	198	305	0.266	ng	# 88
21) 4-Bromophenyl-phenylether	16.428	248	2895	0.358	ng	# 92
22) Hexachlorobenzene	16.540	284	3601	0.388	ng	98
23) Atrazine	16.689	200	1710	0.333	ng	# 94
24) Pentachlorophenol	16.888	266	1388	0.515	ng	98
25) Phenanthrene	17.273	178	13505	0.346	ng	100
26) Anthracene	17.359	178	11748	0.340	ng	99
28) Fluoranthene	19.294	202	12912	0.302	ng	100
30) Pyrene	19.652	202	12854	0.325	ng	100
32) Benzo(a)anthracene	21.393	228	12540	0.356	ng	100
33) Chrysene	21.447	228	13567	0.359	ng	100
34) Bis(2-ethylhexyl)phtha...	21.331	149	3708	0.355	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	17423	0.407	ng	99
37) Benzo(b)fluoranthene	23.034	252	14955	0.372	ng	# 96
38) Benzo(k)fluoranthene	23.034	252	14955	0.365	ng	96
39) Benzo(a)pyrene	23.633	252	12714	0.395	ng	# 94
40) Dibenzo(a,h)anthracene	26.142	278	13475	0.394	ng	99
41) Benzo(g,h,i)perylene	26.843	276	15272	0.398	ng	99

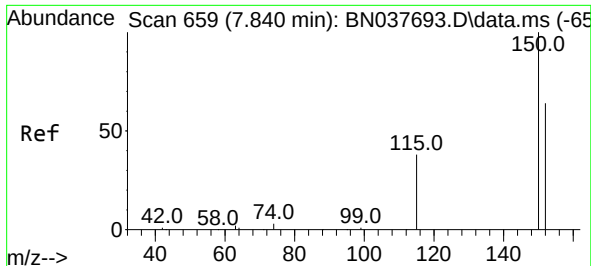
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091825\
Data File : BN037792.D
Acq On : 19 Sep 2025 00:16
Operator : RC/JU
Sample : PB169693BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169693BS

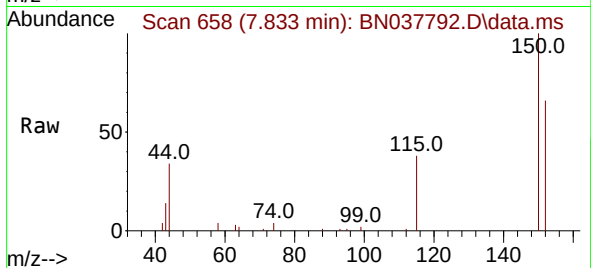
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 14:20:01 2025
Response via : Initial Calibration



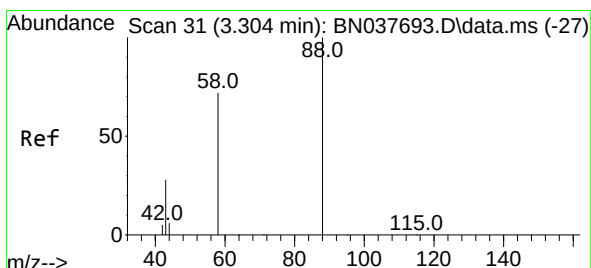
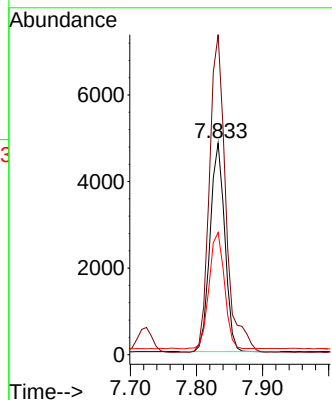
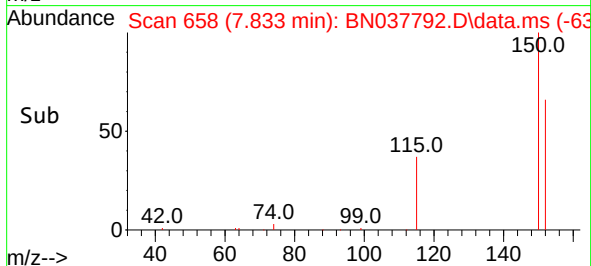


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.833 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

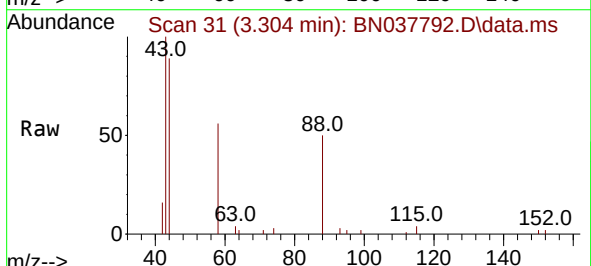
Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS



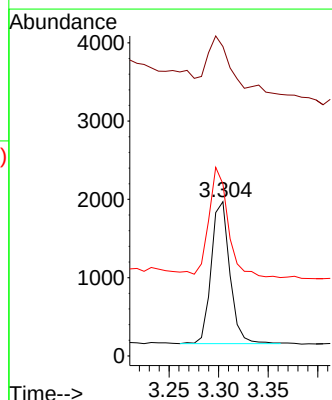
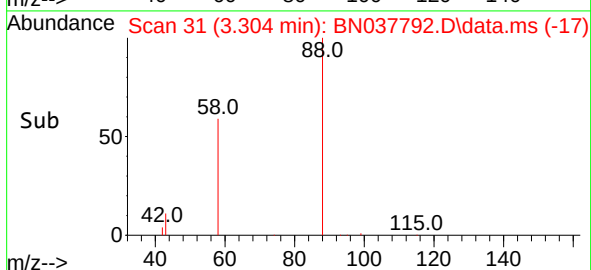
Tgt Ion:152 Resp: 7441
 Ion Ratio Lower Upper
 152 100
 150 151.3 124.5 186.7
 115 57.8 49.2 73.8

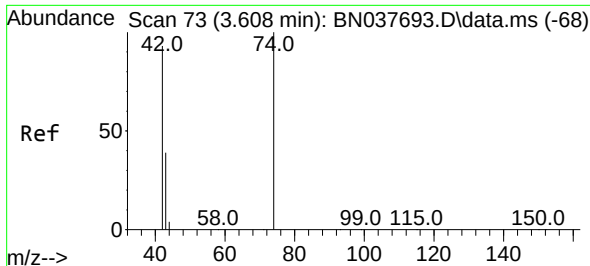


#2
 1,4-Dioxane
 Concen: 0.305 ng
 RT: 3.304 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16



Tgt Ion: 88 Resp: 2366
 Ion Ratio Lower Upper
 88 100
 43 56.6 26.8 40.2#
 58 80.3 61.9 92.9

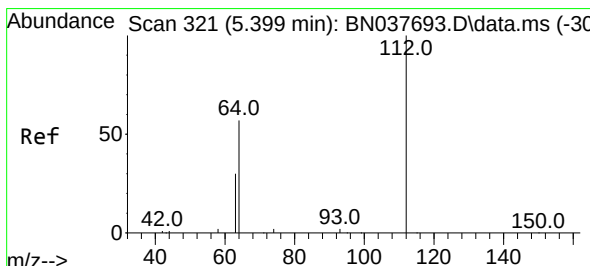
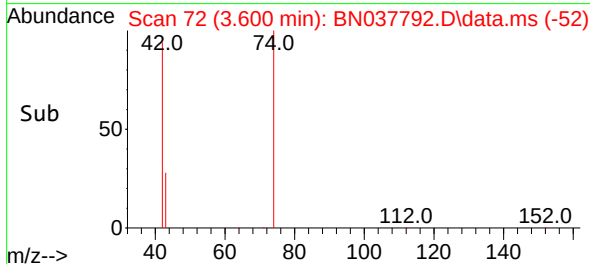
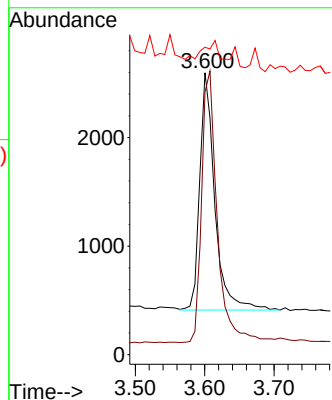
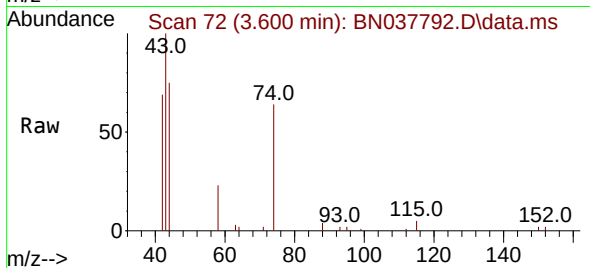




#3
 n-Nitrosodimethylamine
 Concen: 0.326 ng
 RT: 3.600 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

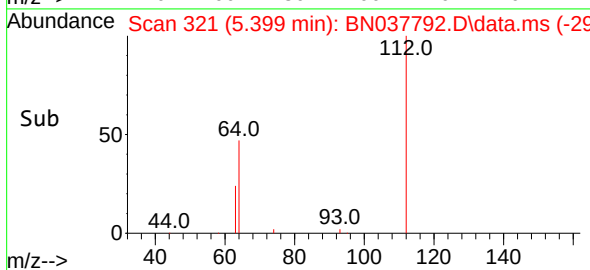
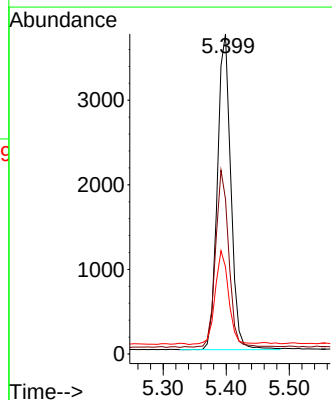
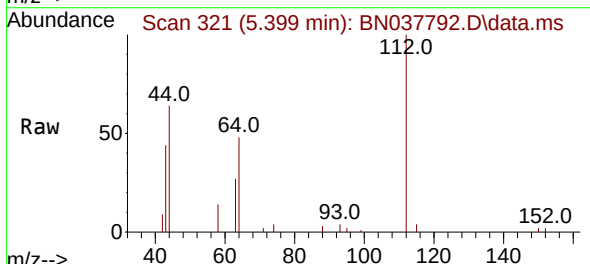
Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

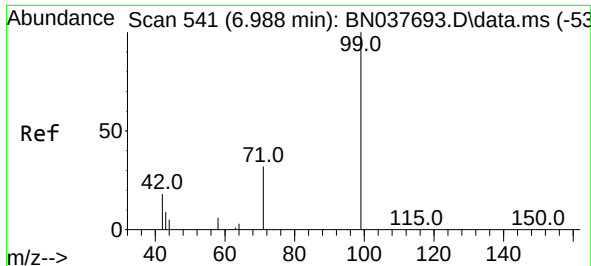
Tgt Ion: 42 Resp: 3300
 Ion Ratio Lower Upper
 42 100
 74 118.9 86.0 129.0
 44 8.3 8.4 12.6#



#4
 2-Fluorophenol
 Concen: 0.325 ng
 RT: 5.399 min Scan# 321
 Delta R.T. -0.000 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion: 112 Resp: 5555
 Ion Ratio Lower Upper
 112 100
 64 55.5 44.9 67.3
 63 29.6 24.7 37.1

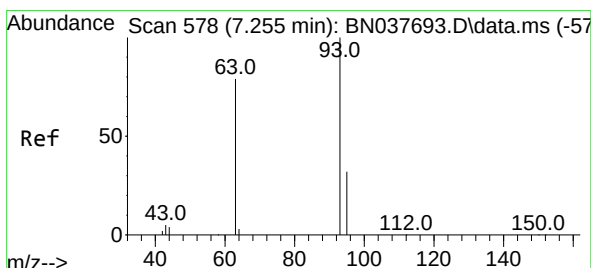
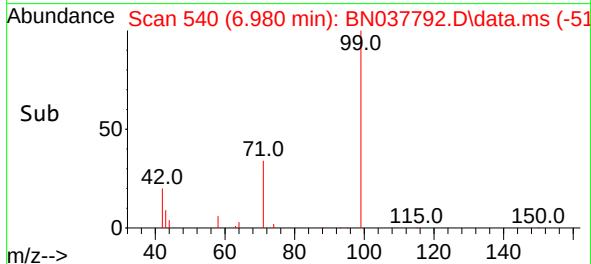
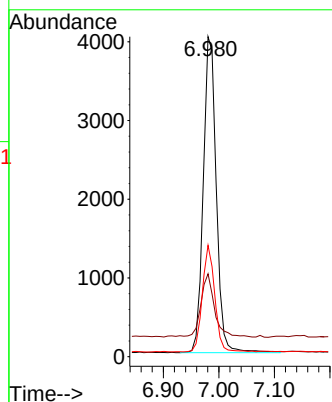
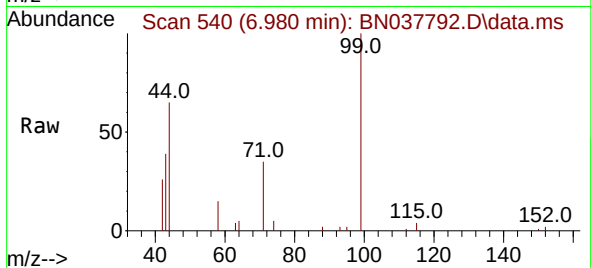




#5
Phenol-d6
Concen: 0.296 ng
RT: 6.980 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

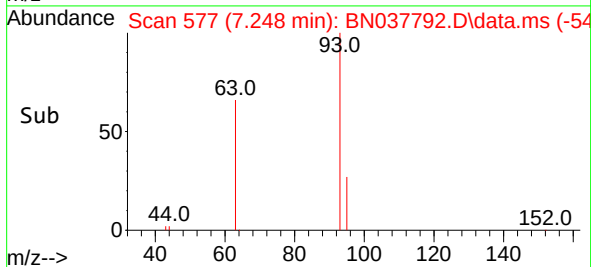
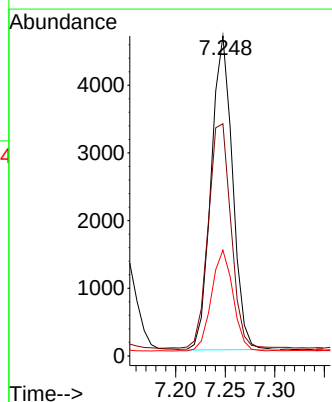
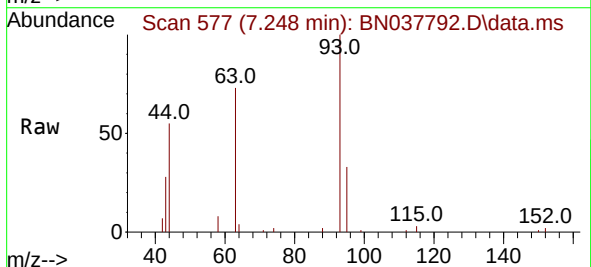
Instrument :
BNA_N
ClientSampleId :
PB169693BS

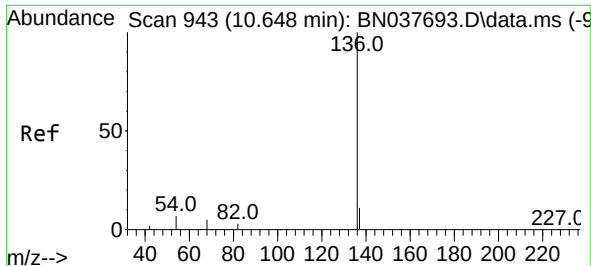
Tgt Ion: 99 Resp: 6563
Ion Ratio Lower Upper
99 100
42 20.6 16.6 24.8
71 32.2 26.7 40.1



#6
bis(2-Chloroethyl)ether
Concen: 0.351 ng
RT: 7.248 min Scan# 577
Delta R.T. -0.007 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion: 93 Resp: 6941
Ion Ratio Lower Upper
93 100
63 76.1 60.6 90.8
95 32.6 26.0 39.0

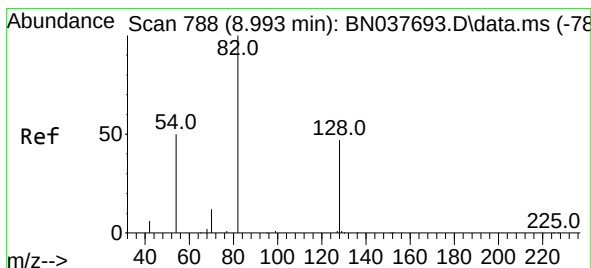
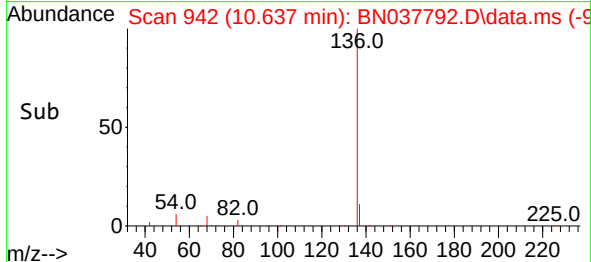
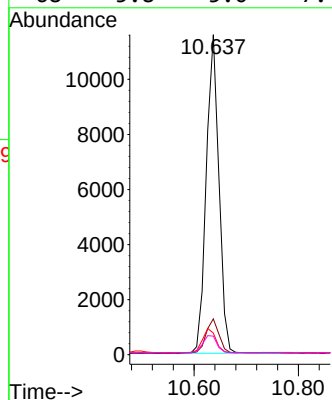
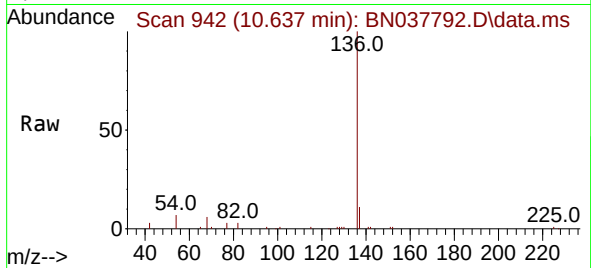




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

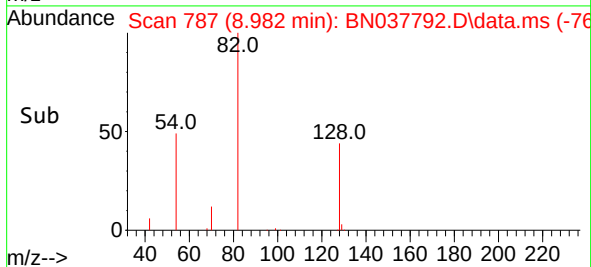
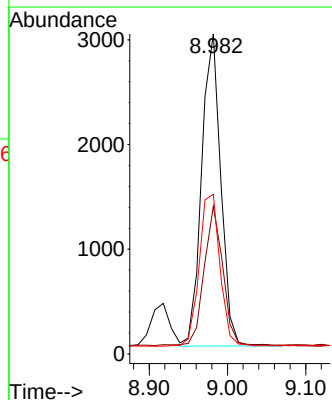
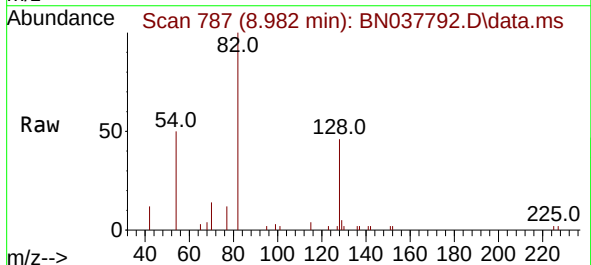
Instrument :
BNA_N
ClientSampleId :
PB169693BS

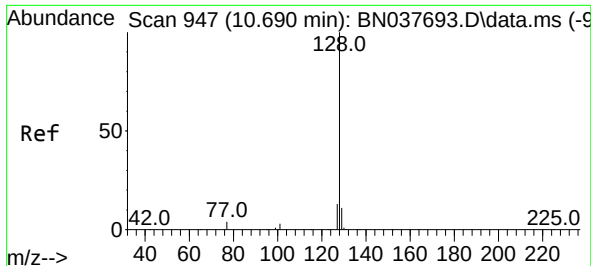
Tgt Ion:	136	Resp:	19392
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	6.8	6.3	9.5
68	5.8	5.0	7.4



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.982 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:	82	Resp:	5088
Ion Ratio	Lower	Upper	
82	100		
128	46.1	38.3	57.5
54	49.9	41.4	62.2

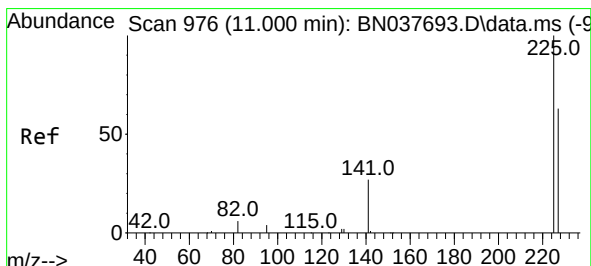
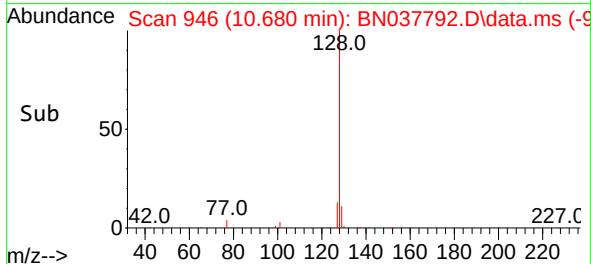
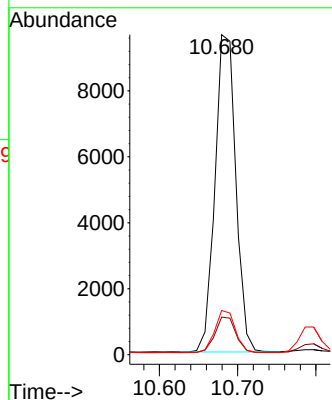
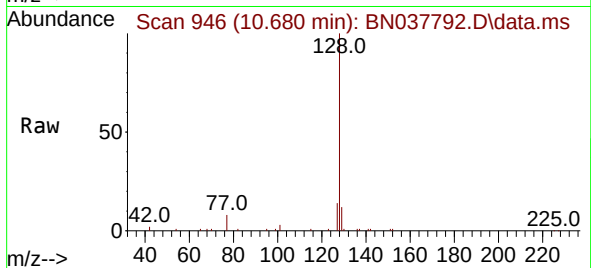




#9
Naphthalene
Concen: 0.336 ng
RT: 10.680 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

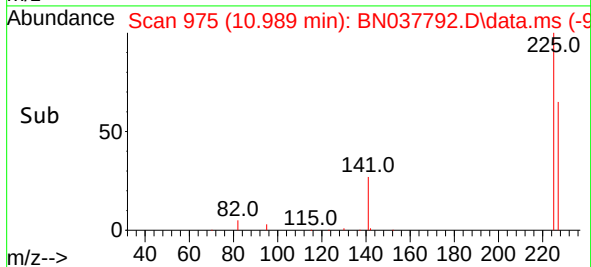
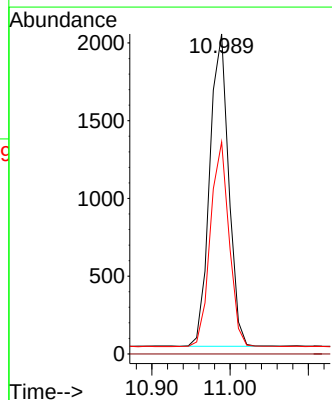
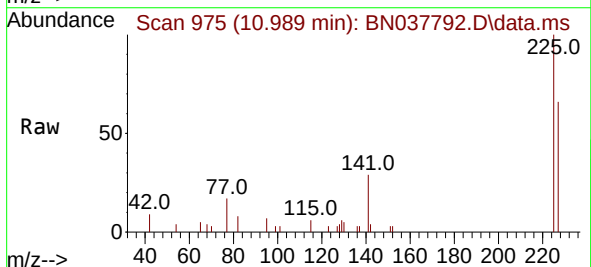
Instrument :
BNA_N
ClientSampleId :
PB169693BS

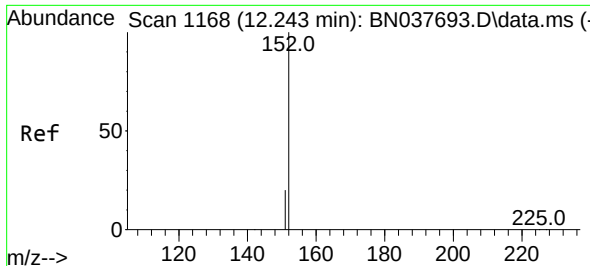
Tgt Ion:	128	Resp:	17810
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.1	13.7
127	13.8	10.9	16.3



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.989 min Scan# 975
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:	225	Resp:	3379
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.5	50.9	76.3

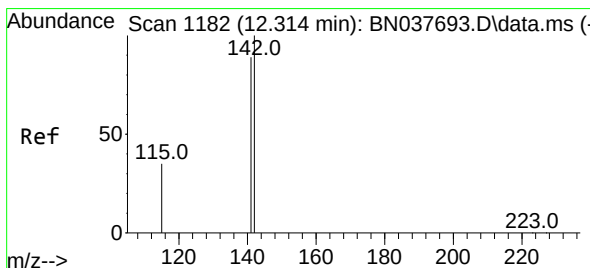
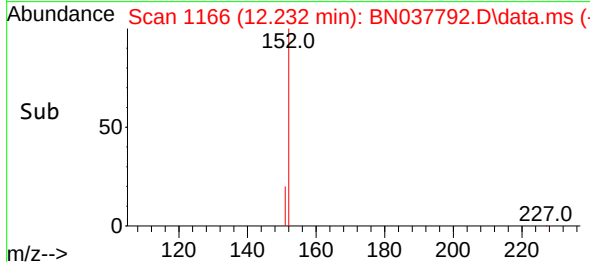
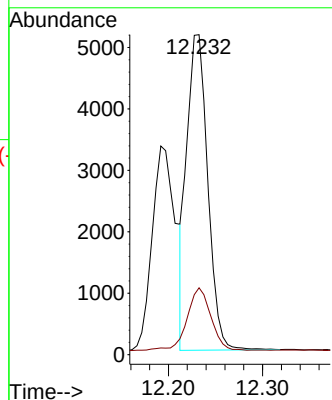
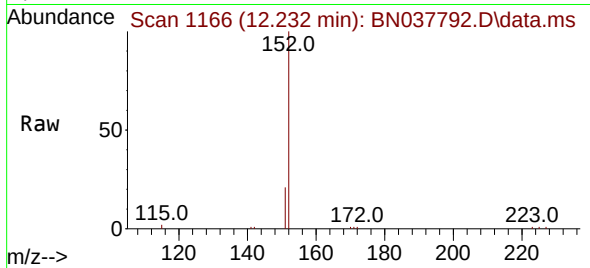




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

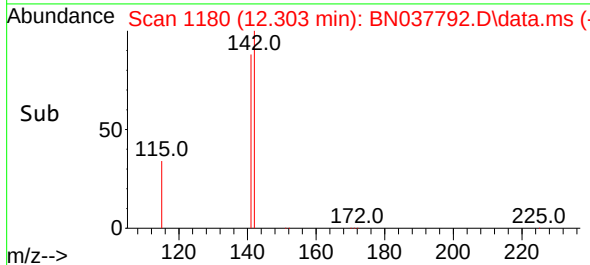
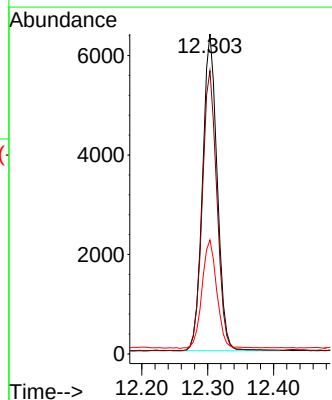
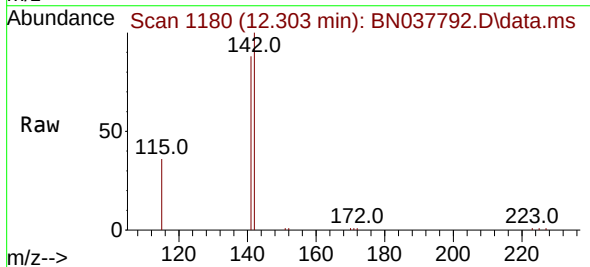
Instrument :
BNA_N
ClientSampleId :
PB169693BS

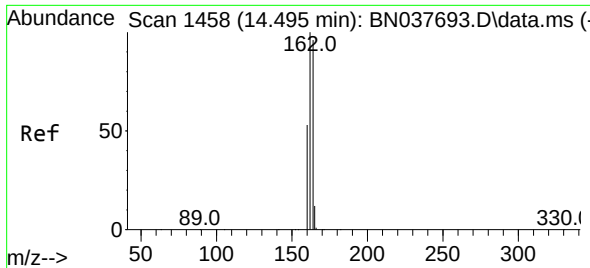
Tgt Ion:152 Resp: 7932
Ion Ratio Lower Upper
152 100
151 22.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.299 ng
RT: 12.303 min Scan# 1180
Delta R.T. -0.010 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:142 Resp: 9820
Ion Ratio Lower Upper
142 100
141 88.5 71.6 107.4
115 35.7 28.6 43.0

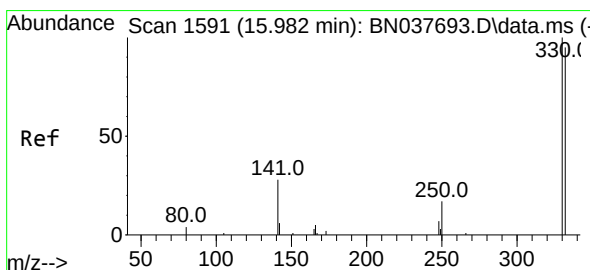
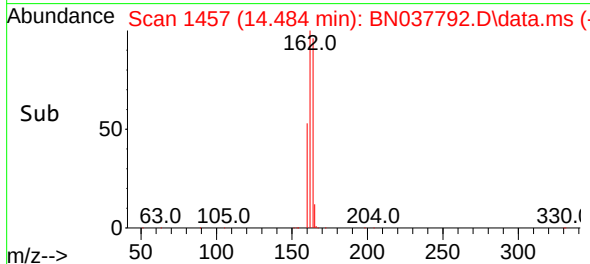
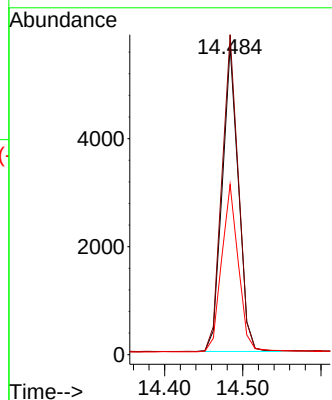
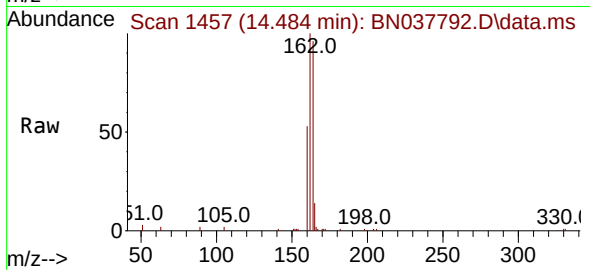




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

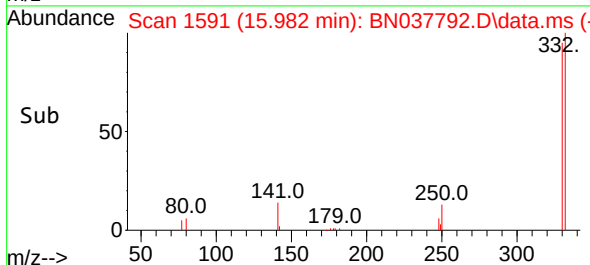
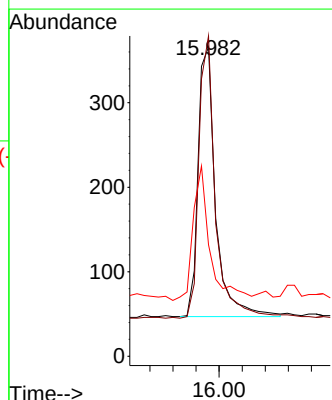
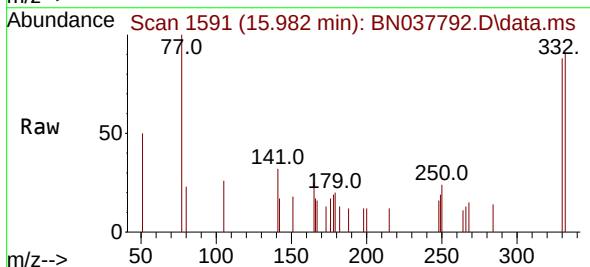
Instrument :
BNA_N
ClientSampleId :
PB169693BS

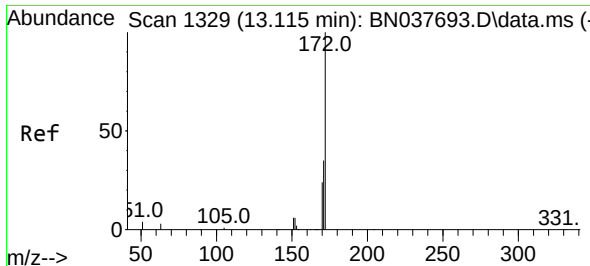
Tgt Ion:164 Resp: 8149
Ion Ratio Lower Upper
164 100
162 103.7 83.1 124.7
160 55.2 44.3 66.5



#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.982 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:330 Resp: 674
Ion Ratio Lower Upper
330 100
332 99.4 75.3 112.9
141 47.6 35.0 52.4

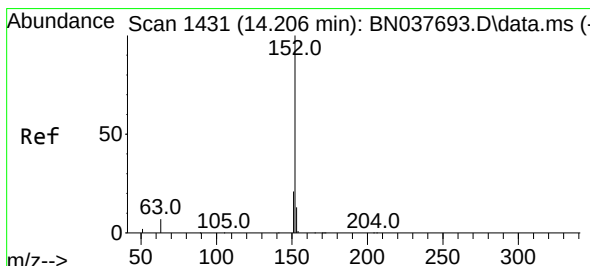
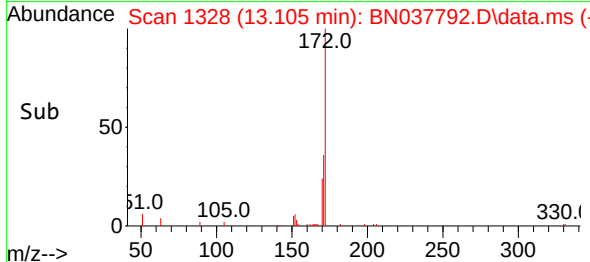
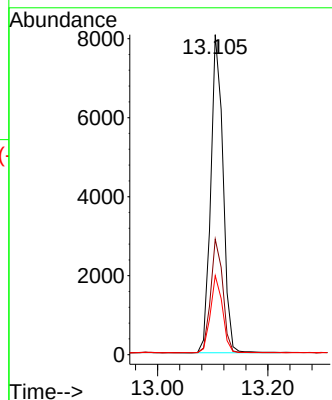
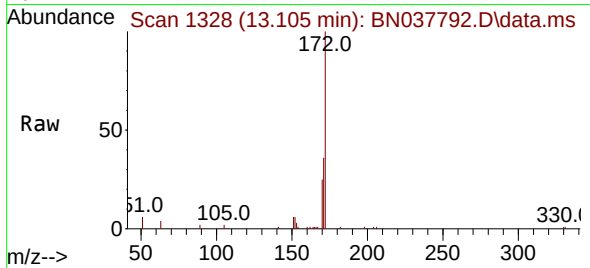




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 13.105 min Scan# 1328
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

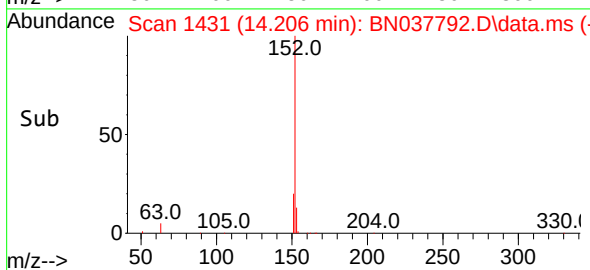
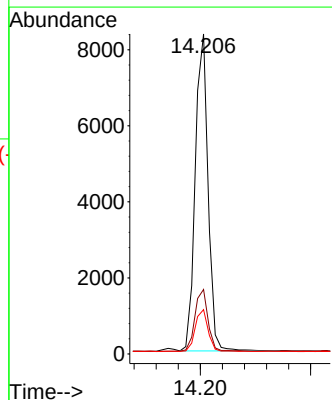
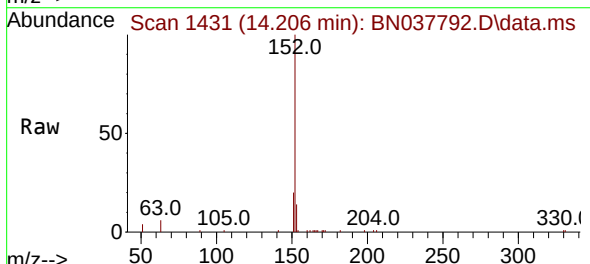
Instrument :
BNA_N
ClientSampleId :
PB169693BS

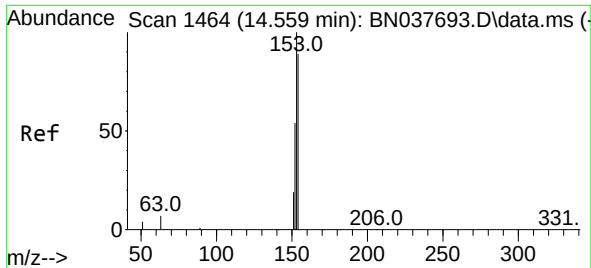
Tgt Ion:172 Resp: 12492
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.7 19.8 29.8



#16
Acenaphthylene
Concen: 0.358 ng
RT: 14.206 min Scan# 1431
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:152 Resp: 13377
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.4 10.4 15.6

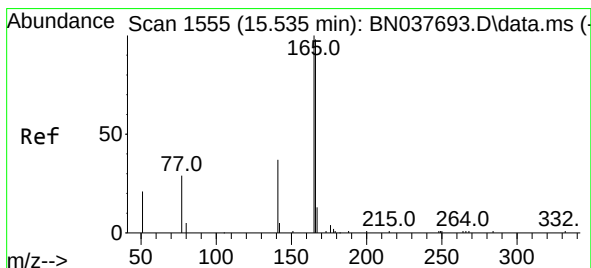
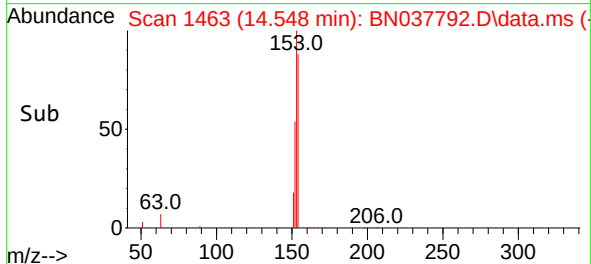
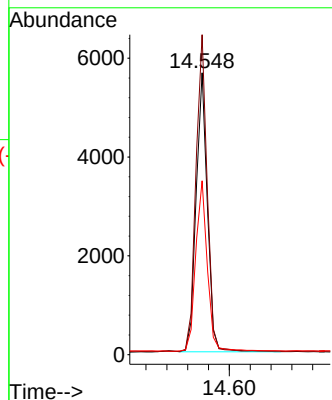
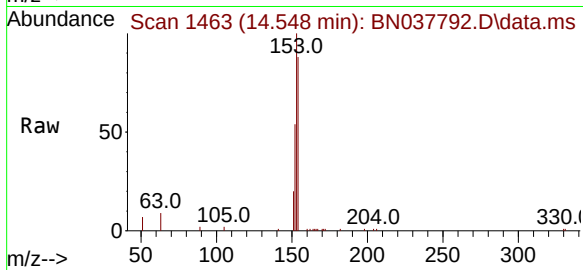




#17
Acenaphthene
Concen: 0.337 ng
RT: 14.548 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

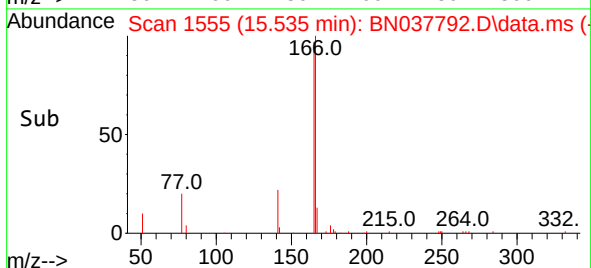
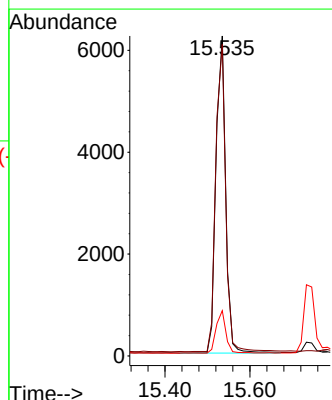
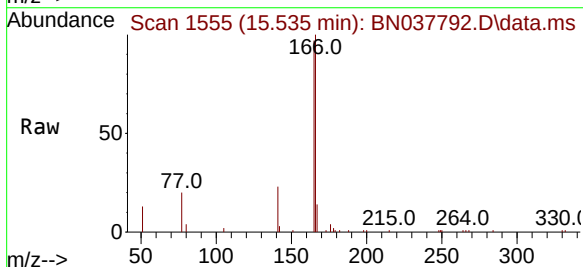
Instrument :
BNA_N
ClientSampleId :
PB169693BS

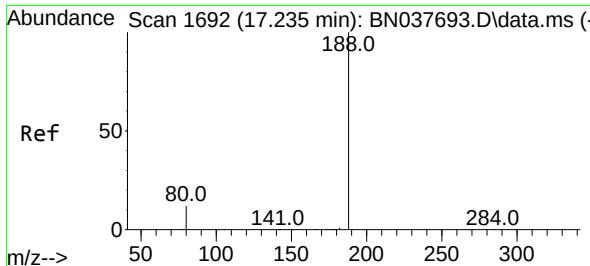
Tgt Ion:154 Resp: 8509
Ion Ratio Lower Upper
154 100
153 113.0 89.8 134.8
152 62.9 50.2 75.2



#18
Fluorene
Concen: 0.309 ng
RT: 15.535 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:166 Resp: 9452
Ion Ratio Lower Upper
166 100
165 99.9 79.6 119.4
167 13.9 10.6 16.0

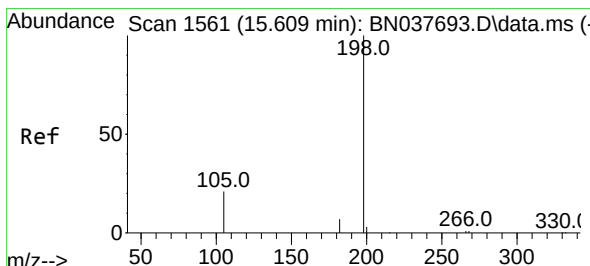
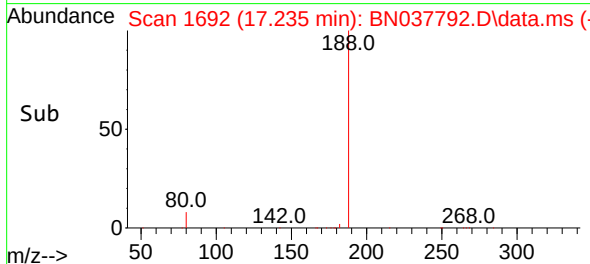
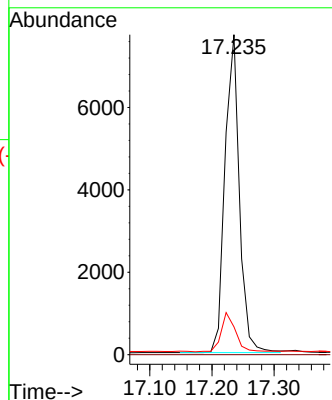
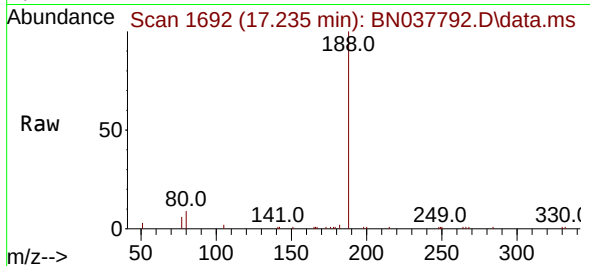




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

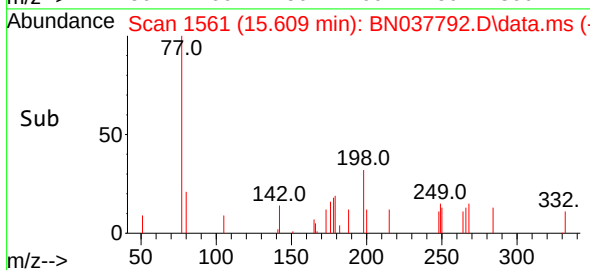
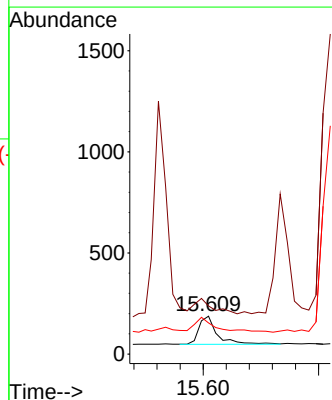
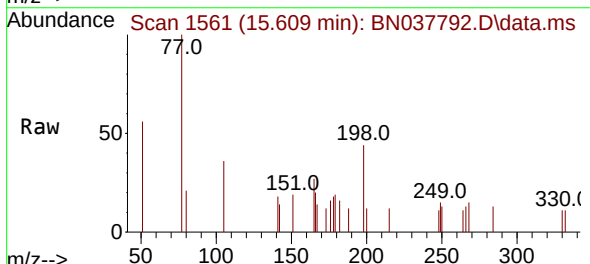
Instrument :
BNA_N
ClientSampleId :
PB169693BS

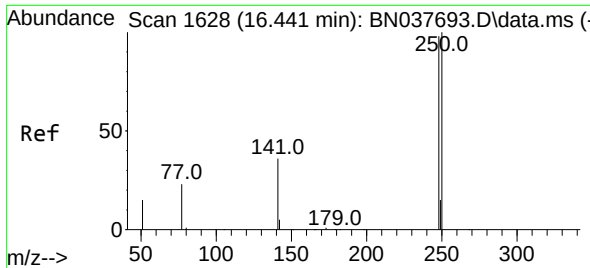
Tgt Ion:188 Resp: 12386
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 10.6 15.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.266 ng
RT: 15.609 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:198 Resp: 305
Ion Ratio Lower Upper
198 100
51 127.3 95.1 142.7
105 82.4 53.8 80.6#

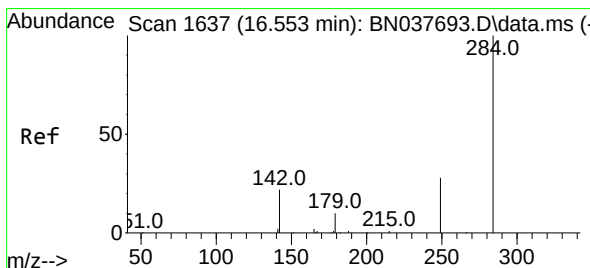
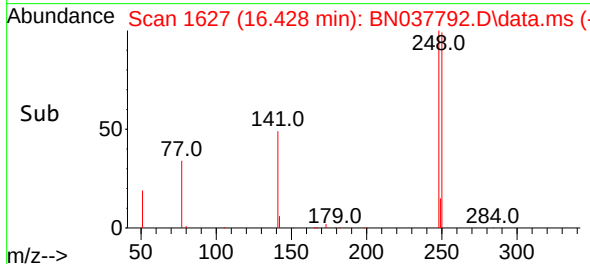
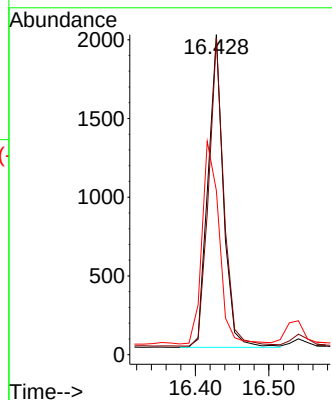
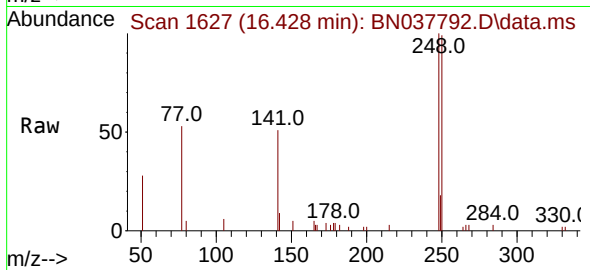




#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.428 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

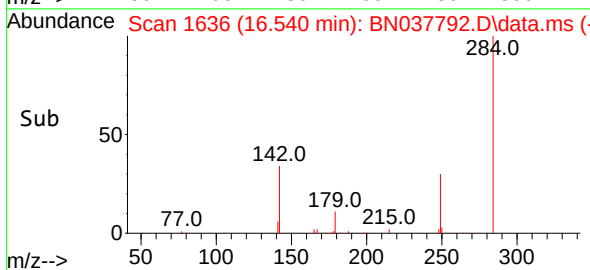
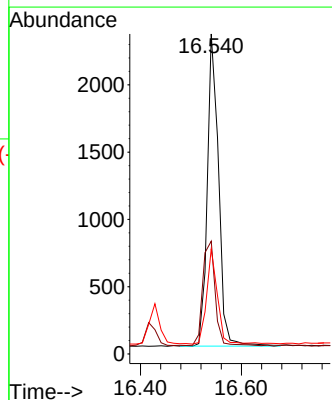
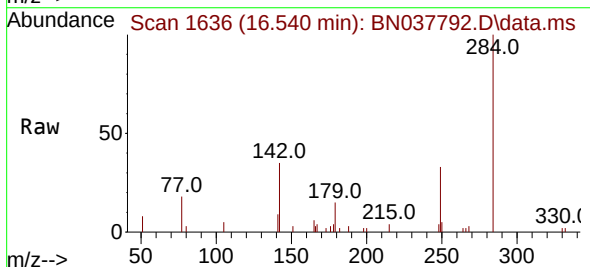
Instrument :
BNA_N
ClientSampleId :
PB169693BS

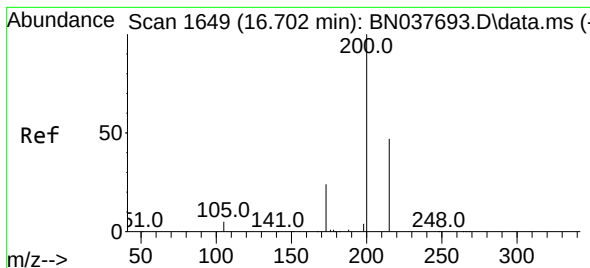
Tgt Ion:248 Resp: 2895
Ion Ratio Lower Upper
248 100
250 99.0 81.5 122.3
141 51.3 30.8 46.2#



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:284 Resp: 3601
Ion Ratio Lower Upper
284 100
142 37.9 30.9 46.3
249 28.9 24.8 37.2





#23

Atrazine

Concen: 0.333 ng

RT: 16.689 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

Instrument :

BNA_N

ClientSampleId :

PB169693BS

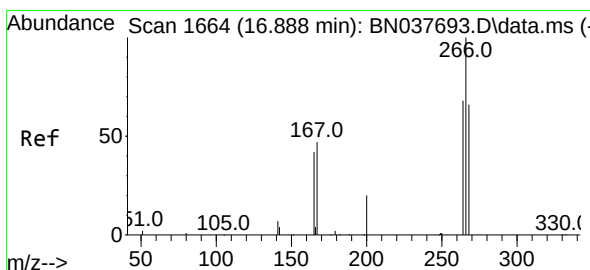
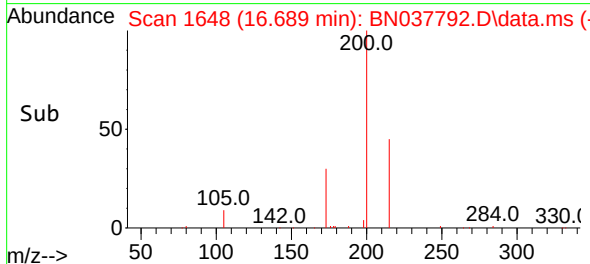
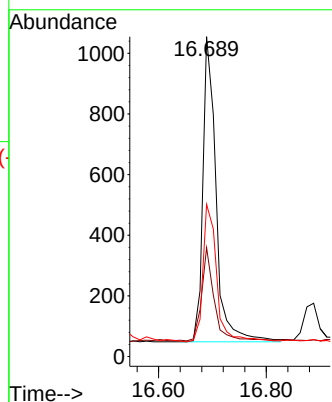
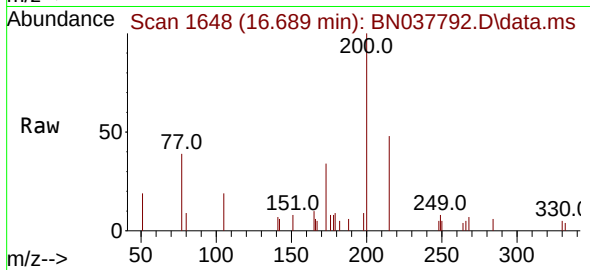
Tgt Ion:200 Resp: 1710

Ion Ratio Lower Upper

200 100

173 34.0 21.4 32.2#

215 47.6 39.2 58.8



#24

Pentachlorophenol

Concen: 0.515 ng

RT: 16.888 min Scan# 1664

Delta R.T. -0.000 min

Lab File: BN037792.D

Acq: 19 Sep 2025 00:16

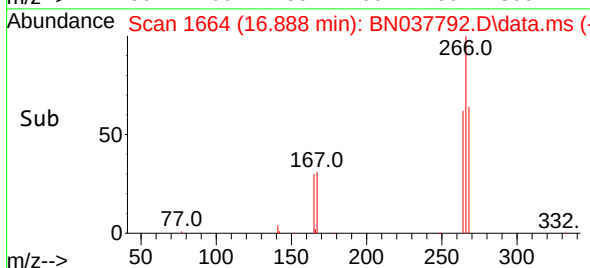
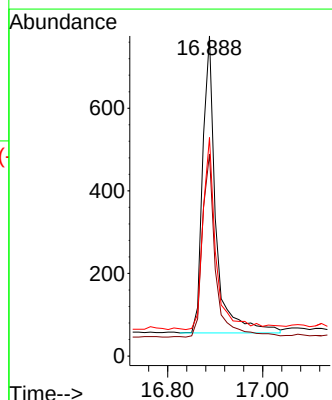
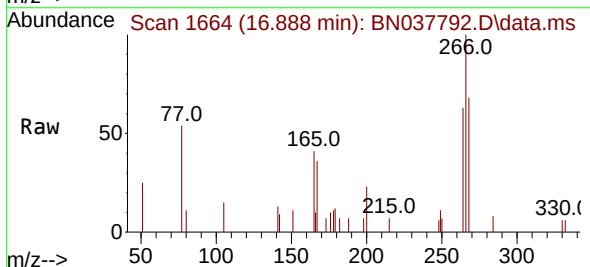
Tgt Ion:266 Resp: 1388

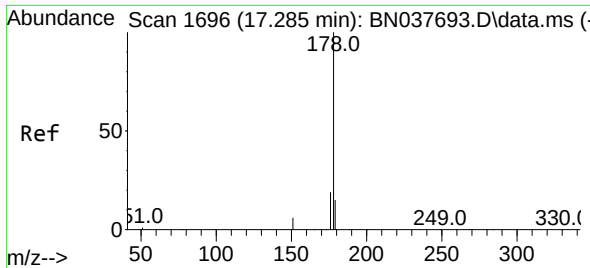
Ion Ratio Lower Upper

266 100

264 62.3 51.6 77.4

268 65.3 53.2 79.8

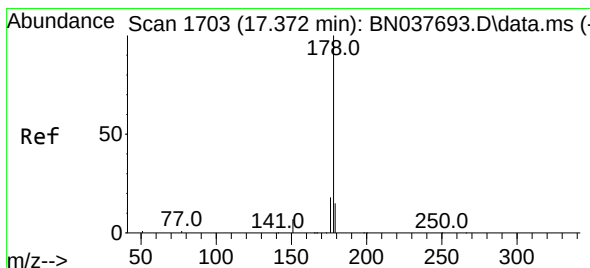
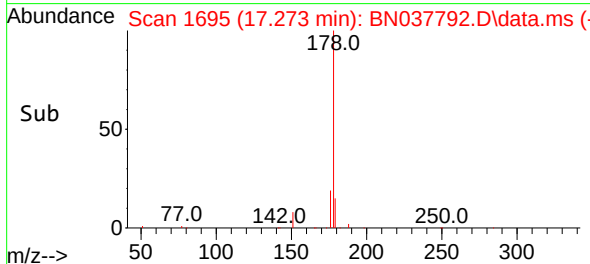
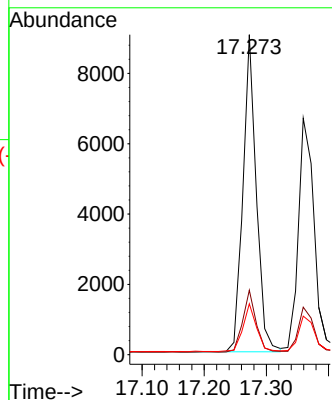
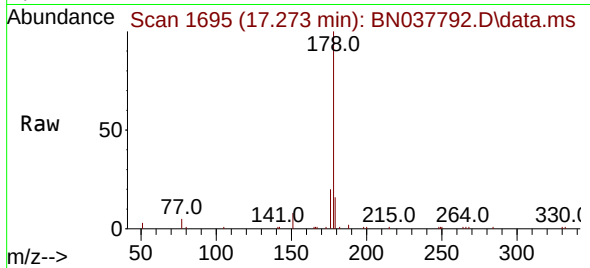




#25
Phenanthrene
Concen: 0.346 ng
RT: 17.273 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

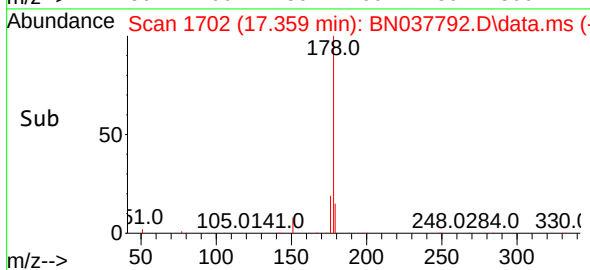
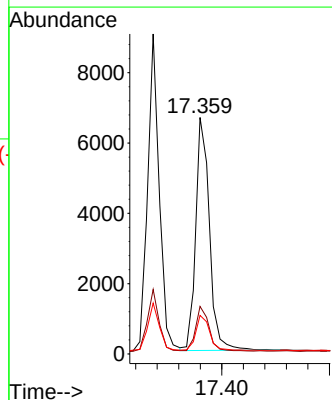
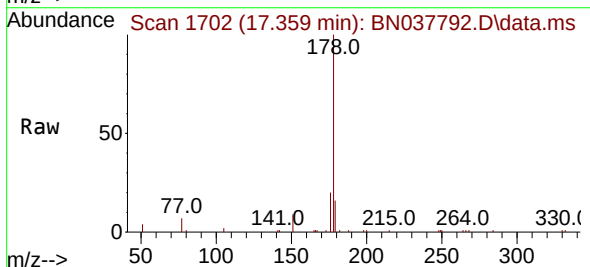
Instrument :
BNA_N
ClientSampleId :
PB169693BS

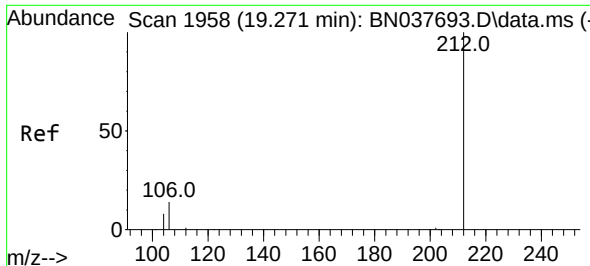
Tgt Ion:178 Resp: 13505
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.2 18.2



#26
Anthracene
Concen: 0.340 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.013 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:178 Resp: 11748
Ion Ratio Lower Upper
178 100
176 19.0 14.6 22.0
179 15.4 12.2 18.4

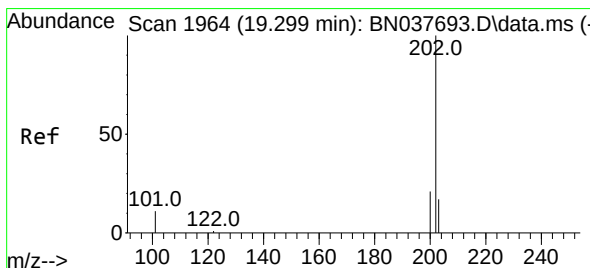
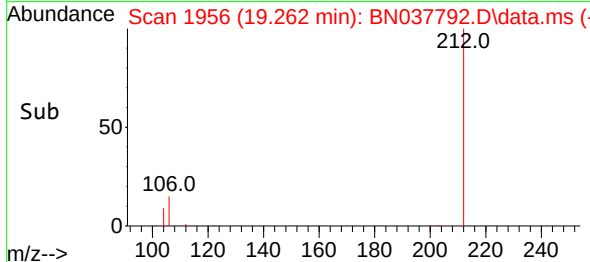
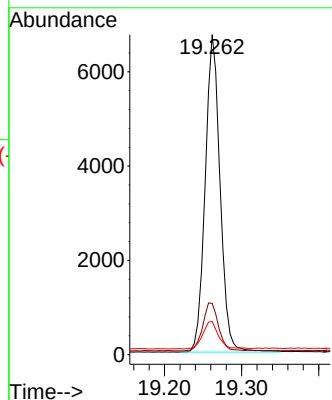
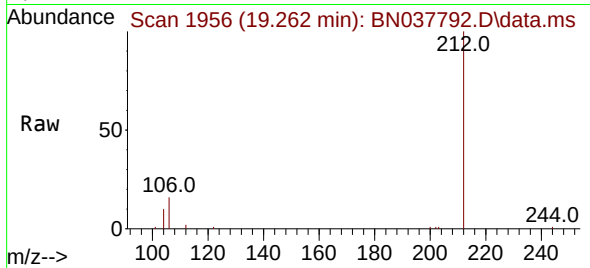




#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.262 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

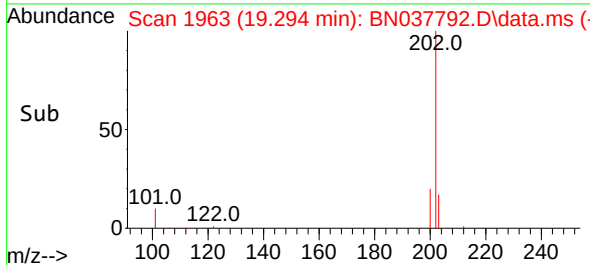
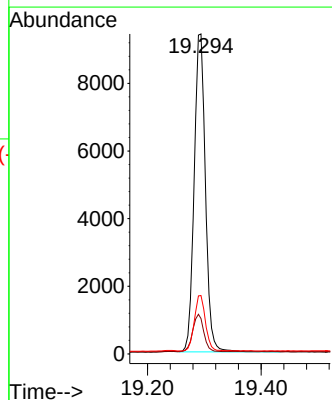
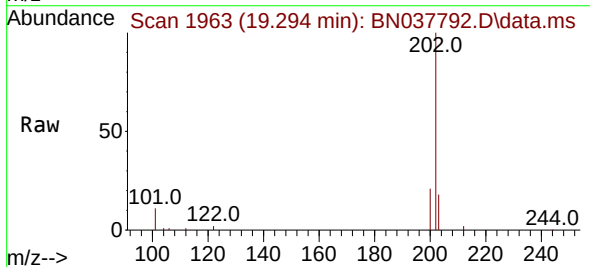
Instrument :
BNA_N
ClientSampleId :
PB169693BS

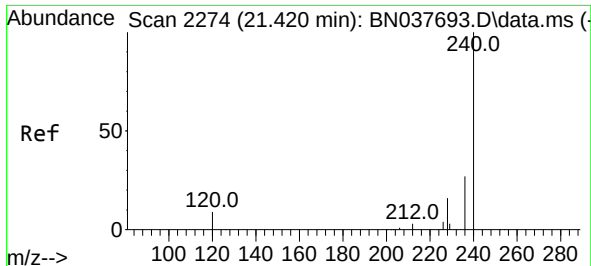
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.2	18.2
104	9.2	6.9	10.3



#28
Fluoranthene
Concen: 0.302 ng
RT: 19.294 min Scan# 1963
Delta R.T. -0.005 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.3	13.7	20.5

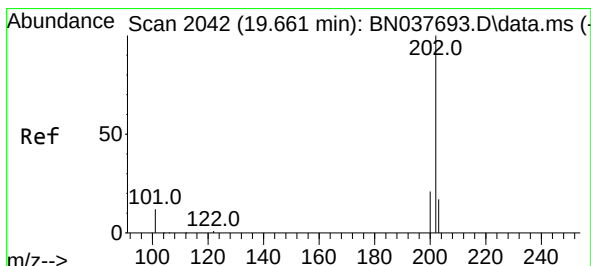
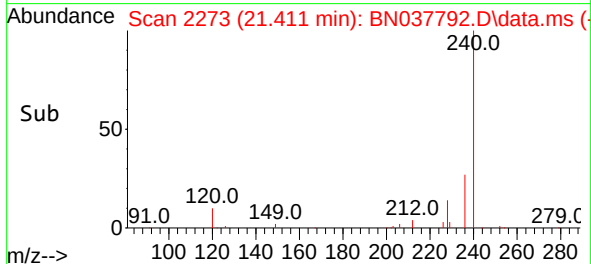
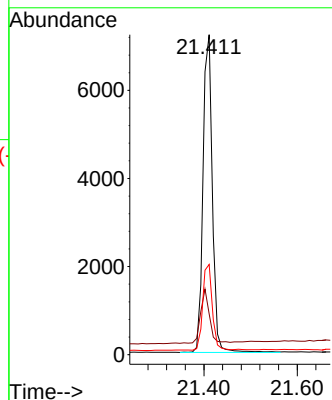
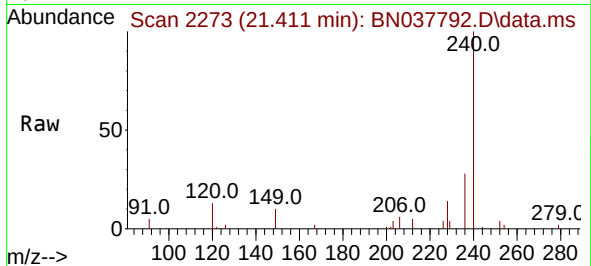




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

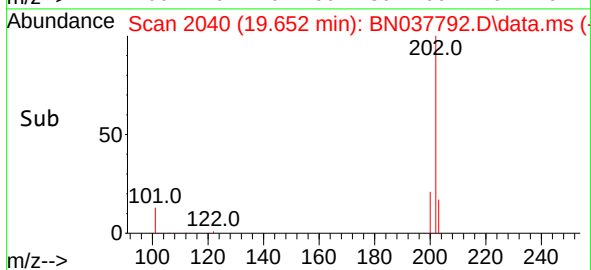
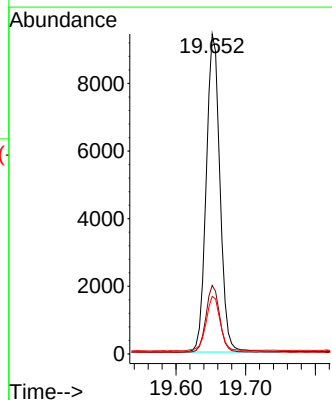
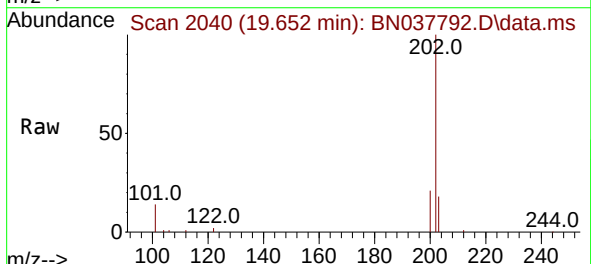
Instrument :
BNA_N
ClientSampleId :
PB169693BS

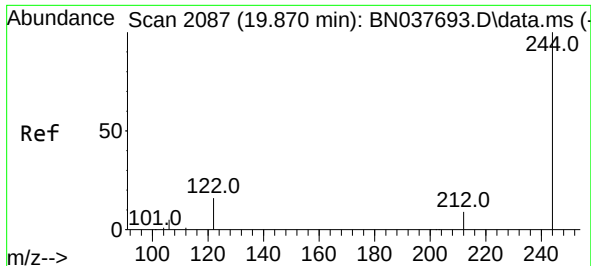
Tgt Ion:240 Resp: 10095
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 28.2 22.6 33.8



#30
Pyrene
Concen: 0.325 ng
RT: 19.652 min Scan# 2040
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

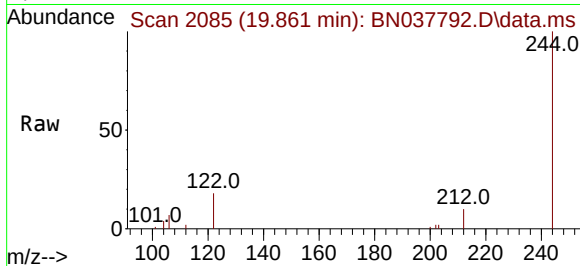
Tgt Ion:202 Resp: 12854
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.5 14.3 21.5



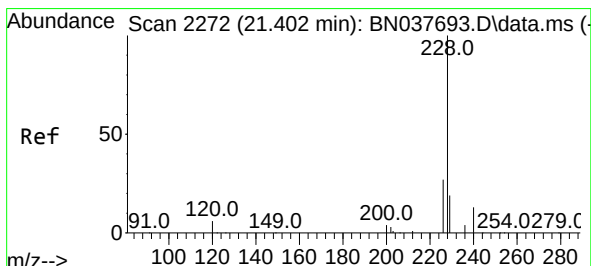
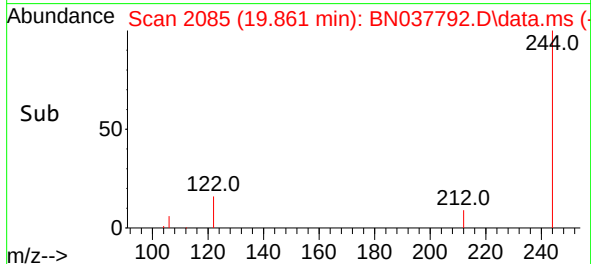
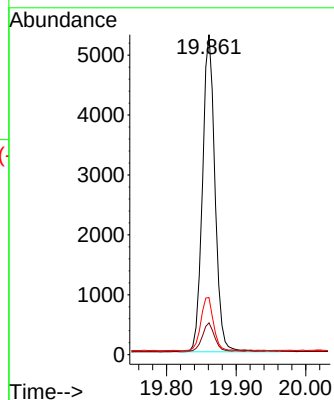


#31
 Terphenyl-d14
 Concen: 0.322 ng
 RT: 19.861 min Scan# 2085
 Delta R.T. -0.009 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

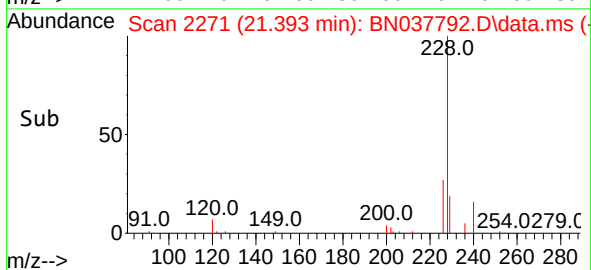
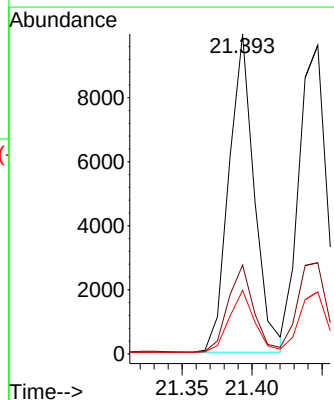
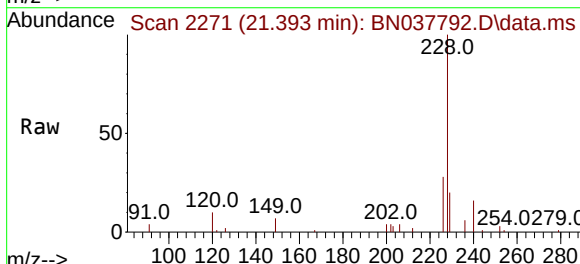


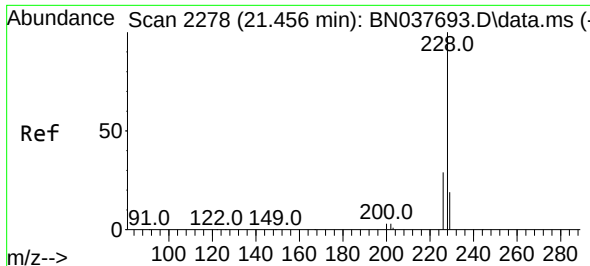
Tgt Ion:244 Resp: 6591
 Ion Ratio Lower Upper
 244 100
 212 10.0 7.5 11.3
 122 17.8 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.356 ng
 RT: 21.393 min Scan# 2271
 Delta R.T. -0.009 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Tgt Ion:228 Resp: 12540
 Ion Ratio Lower Upper
 228 100
 226 27.8 22.2 33.2
 229 19.9 15.8 23.6

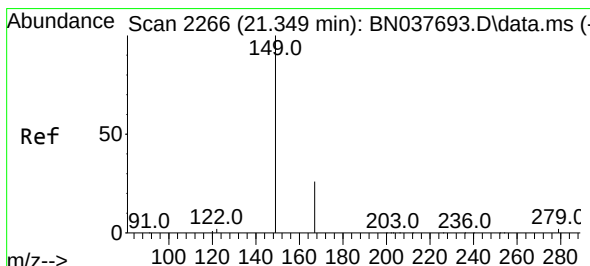
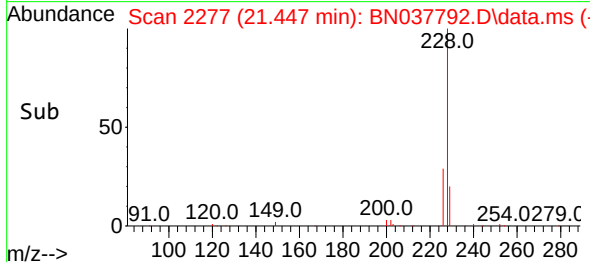
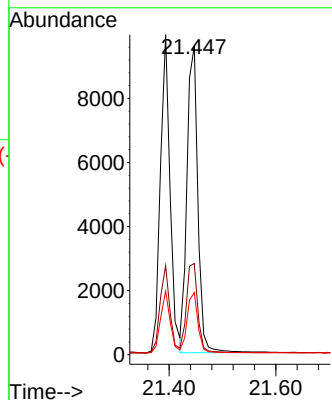
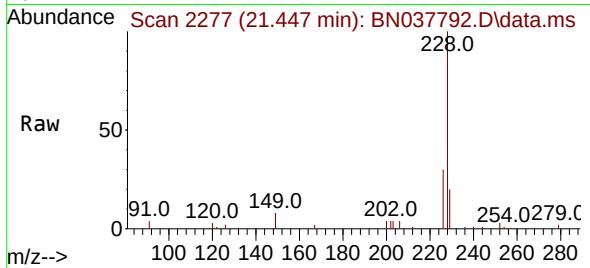




#33
Chrysene
Concen: 0.359 ng
RT: 21.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

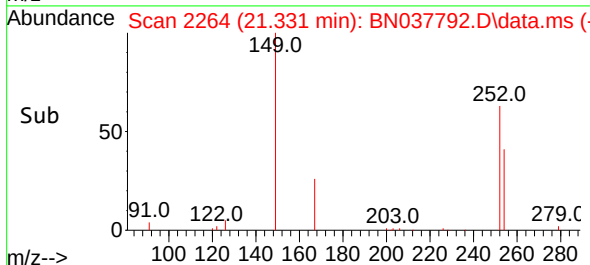
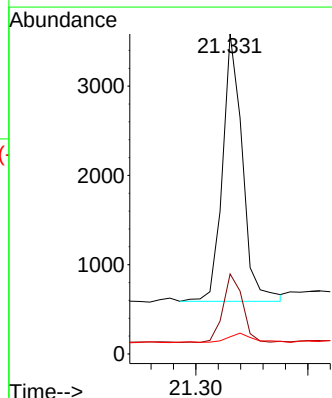
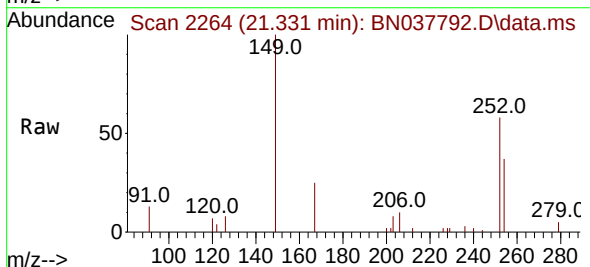
Instrument :
BNA_N
ClientSampleId :
PB169693BS

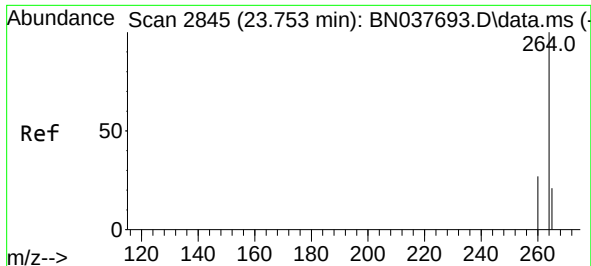
Tgt Ion:	228	Resp:	13567
Ion Ratio	Lower	Upper	
228	100		
226	29.5	23.5	35.3
229	20.1	15.9	23.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.331 min Scan# 2264
Delta R.T. -0.018 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Tgt Ion:	149	Resp:	3708
Ion Ratio	Lower	Upper	
149	100		
167	25.0	20.8	31.2
279	4.3	3.3	4.9

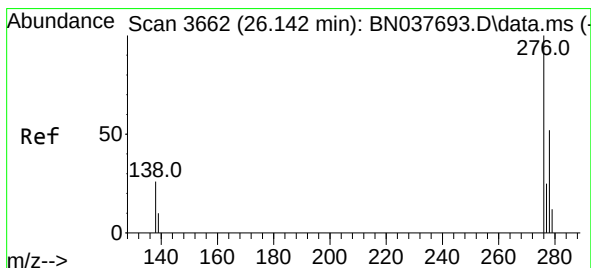
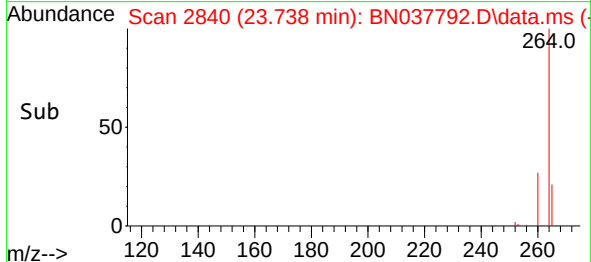
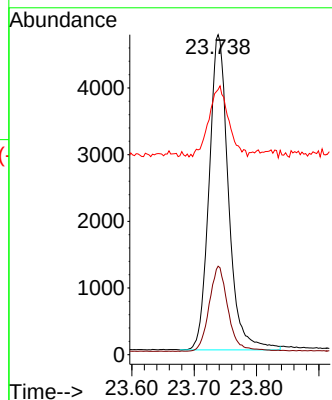
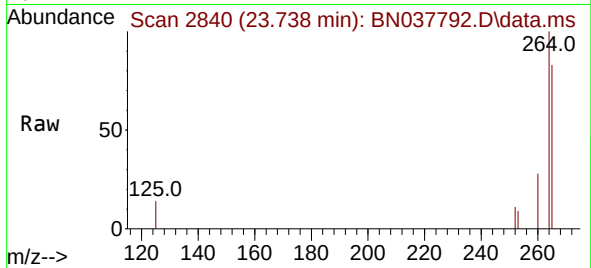




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.738 min Scan# 21
 Delta R.T. -0.015 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

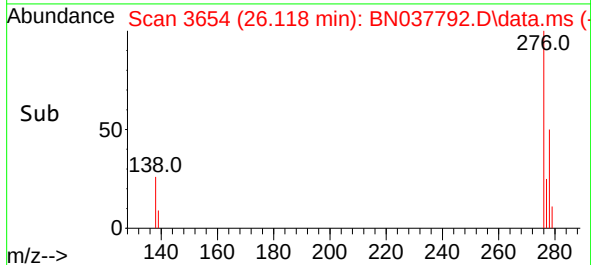
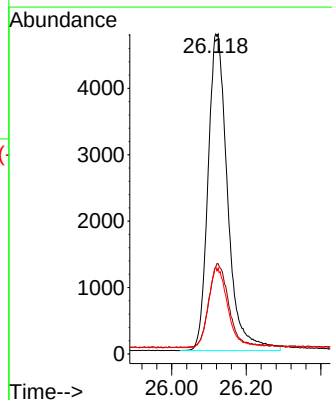
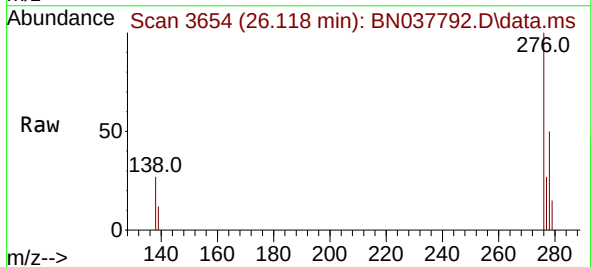
Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS

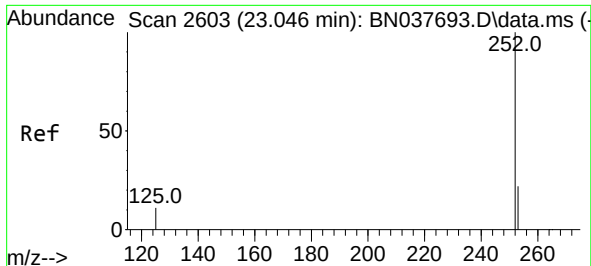
Tgt Ion:264 Resp: 10200
 Ion Ratio Lower Upper
 264 100
 260 27.6 21.8 32.8
 265 82.9 39.4 59.2#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.407 ng
 RT: 26.118 min Scan# 3654
 Delta R.T. -0.024 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

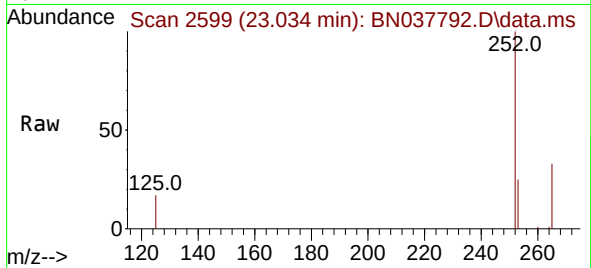
Tgt Ion:276 Resp: 17423
 Ion Ratio Lower Upper
 276 100
 138 27.0 21.9 32.9
 277 25.2 20.1 30.1



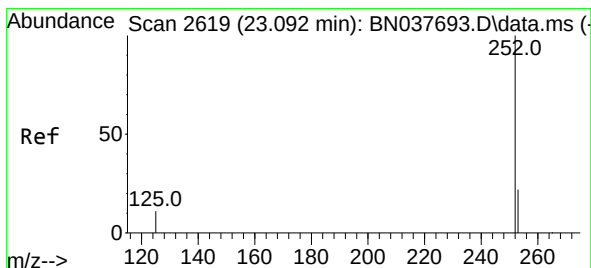
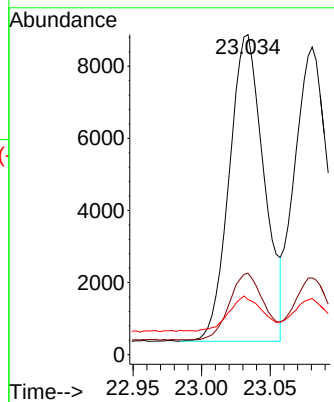
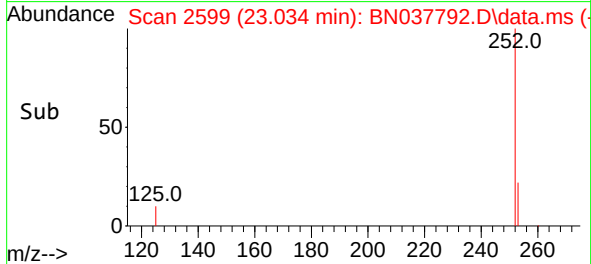


#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 23.034 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

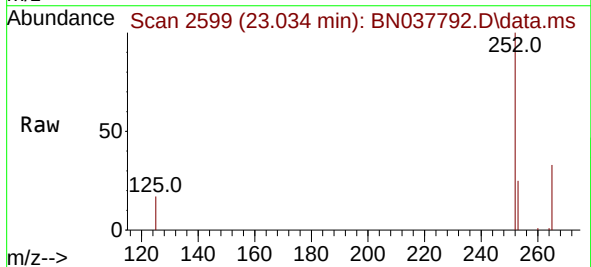
Instrument :
BNA_N
ClientSampleId :
PB169693BS



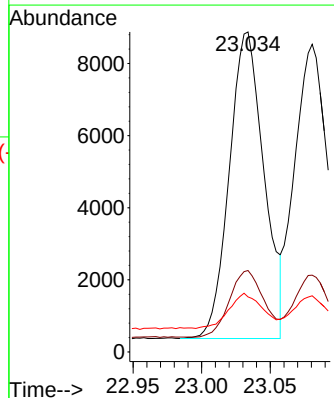
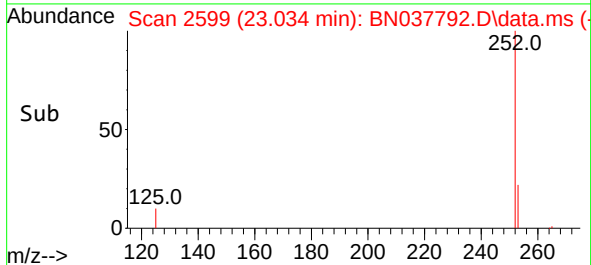
Tgt Ion:252 Resp: 14955
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.2
125 17.2 11.2 16.8#

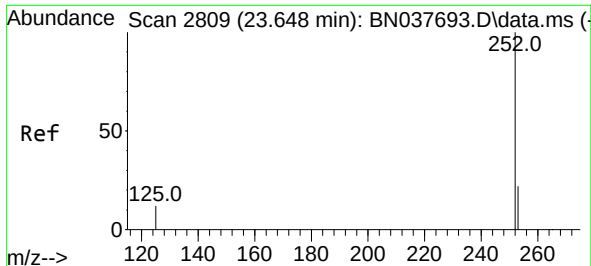


#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 23.034 min Scan# 2599
Delta R.T. -0.059 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16



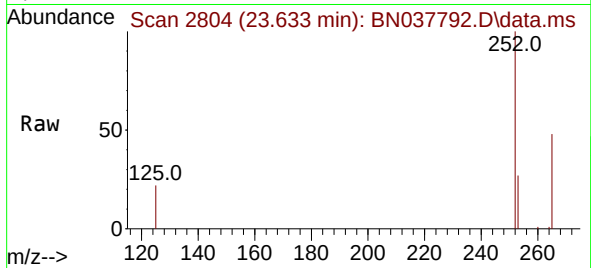
Tgt Ion:252 Resp: 14955
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.0
125 17.2 11.6 17.4



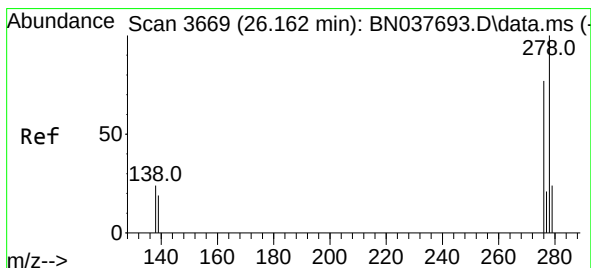
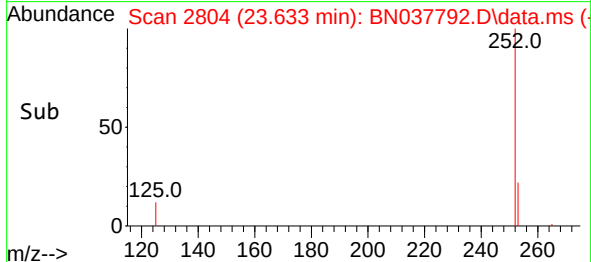
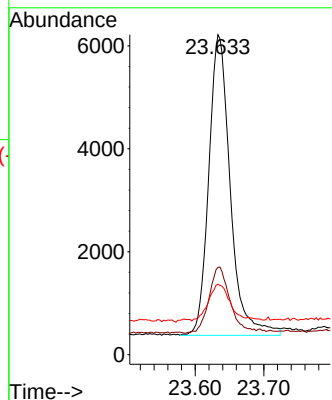


#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.633 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

Instrument :
BNA_N
ClientSampleId :
PB169693BS

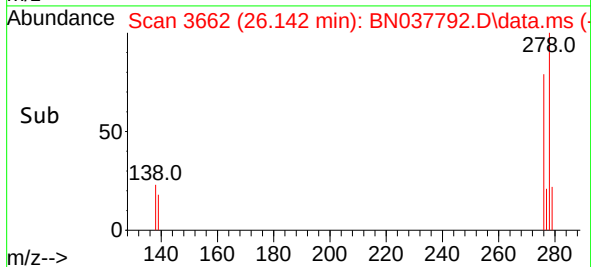
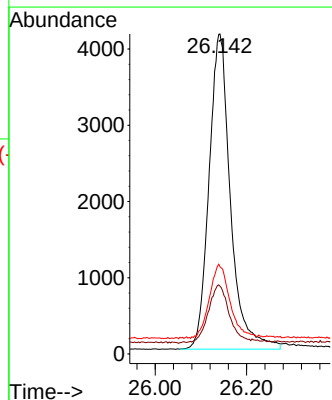
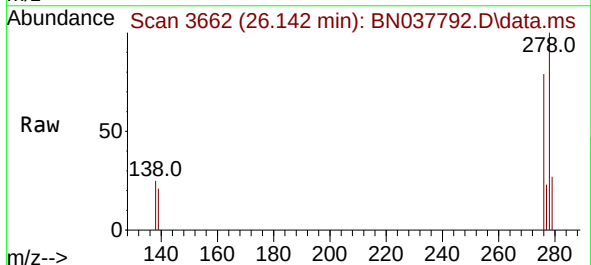


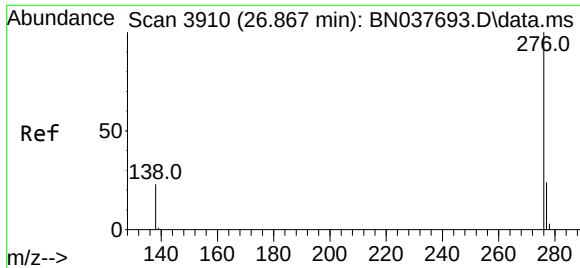
Tgt Ion:252 Resp: 12714
Ion Ratio Lower Upper
252 100
253 27.3 20.8 31.2
125 22.1 13.9 20.9#



#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.142 min Scan# 3662
Delta R.T. -0.021 min
Lab File: BN037792.D
Acq: 19 Sep 2025 00:16

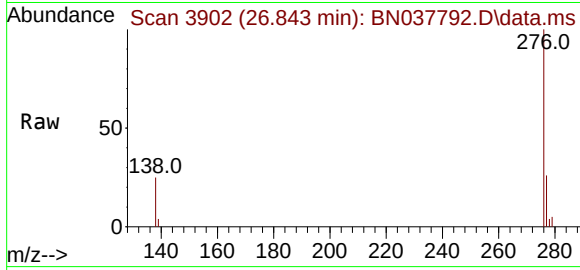
Tgt Ion:278 Resp: 13475
Ion Ratio Lower Upper
278 100
139 21.2 17.8 26.6
279 27.2 22.0 33.0





#41
 Benzo(g,h,i)perylene
 Concen: 0.398 ng
 RT: 26.843 min Scan# 3910
 Delta R.T. -0.024 min
 Lab File: BN037792.D
 Acq: 19 Sep 2025 00:16

Instrument :
 BNA_N
 ClientSampleId :
 PB169693BS



Tgt Ion:	276	Resp:	15272
Ion Ratio	Lower	Upper	
276	100		
277	25.6	20.6	31.0
138	24.8	20.2	30.2

