

Cover Page

Order ID : Q2299

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q2299-01
Q2299-02
Q2299-03
Q2299-04
Q2299-05
Q2299-06
Q2299-07
Q2299-08
Q2299-09
Q2299-10
Q2299-11
Q2299-12
Q2299-13
Q2299-14
Q2299-15
Q2299-16
Q2299-17
Q2299-18
Q2299-19
Q2299-20
Q2299-21
Q2299-22

Client Sample Number

RE117D1-20250609
RE117D2-20250609
TT191D1-20250609MS
TT191D1-20250609MSD
TT191D1-20250609
TT191D2-20250609
RW10-MW01S-20250609
RW10-MW01D-20250609
RW10A-MW01S-20250609
RW10A-MW01I-20250609
TT158I1-20250610
DUP01-20250610
RE131D2-20250610
DUP02-20250610
TT174I1-20250610
RE134D4-20250610
RE134D3-20250610
TT190D1-20250611
RW11-MW01I-20250611
RW11-MW01S-20250611
RE134D1-20250611
TT190D2-20250611

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: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q2299

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

22 Water samples were received on 06/11/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW10A-MW01S-20250609 [Terphenyl-d14 - 136%], TT158I1-20250610 [Terphenyl-d14 - 142%], DUP01-20250610 [Terphenyl-d14 - 182%], RE131D2-20250610DL [Terphenyl-d14 - 151%], DUP02-20250610 [Terphenyl-d14 - 212%], DUP02-20250610DL [Nitrobenzene-d5 - 49% and Terphenyl-d14 - 288%], These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q2299-03MS} with File ID: BN037246.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-50%], due to matrix interference.

The MSD {Q2299-04MSD} with File ID: BN037247.D recoveries met the acceptable requirements except for 1,4-Dioxane[0%], due to matrix interference.

The RPD for {Q2299-04MSD} with File ID: BN037247.D met criteria except for 1,4-Dioxane[200%], due to difference in results of MS and MSD.



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The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples RE131D2-20250610, DUP02-20250610 and RE134D3-20250610 were diluted due to high concentrations.

E. Additional Comments:

The sample # TT191D1-20250609MS and TT191D1-20250609MSD is failing for 1,4-Dioxane and the original sample(TT191D1-20250609) is reported with M flag for this compounds.

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.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

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: Q2299

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for RW10A-MW01S-20250609 [Terphenyl-d14 - 136%], TT158I1-20250610 [Terphenyl-d14 - 142%], DUP01-20250610 [Terphenyl-d14 - 182%], RE131D2-20250610DL [Terphenyl-d14 - 151%], DUP02-20250610 [Terphenyl-d14 - 212%], DUP02-20250610DL [Nitrobenzene-d5 - 49% and Terphenyl-d14 - 288%], These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

(CONTINUED)

		NA	NO	YES
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 MS {Q2299-03MS} with File ID: BN037246.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-50%], due to matrix interference.			
	The MSD {Q2299-04MSD} with File ID: BN037247.D recoveries met the acceptable requirements except for 1,4-Dioxane[0%], due to matrix interference.			
	The Blank Spike met requirements for all samples .			
	The RPD for {Q2299-04MSD} with File ID: BN037247.D met criteria except for 1,4-Dioxane[200%], due to difference in results of MS and MSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The sample # TT191D1-20250609MS and TT191D1-20250609MSD is failing for 1,4-Dioxane and the original sample(TT191D1-20250609) is reported with M flag for this compounds.

Samples RE131D2-20250610, DUP02-20250610 and RE134D3-20250610 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.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2299

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/24/2025

LAB CHRONICLE

OrderID:	Q2299	OrderDate:	6/12/2025 12:06:00 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
Q2299-01	RE117D1-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-02	RE117D2-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-05	TT191D1-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-06	TT191D2-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-07	RW10-MW01S-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-08	RW10-MW01D-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-09	RW10A-MW01S-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-10	RW10A-MW01I-20250609	Water	SVOC-SIMGroup1	8270-Modified	06/09/25	06/13/25	06/14/25	06/11/25
Q2299-11	TT158I1-20250610	Water	SVOC-SIMGroup1	8270-Modified	06/10/25	06/13/25	06/14/25	06/11/25
Q2299-12	DUP01-20250610	Water	SVOC-SIMGroup1	8270-Modified	06/10/25	06/13/25	06/14/25	06/11/25

LAB CHRONICLE

Q2299-13	RE131D2-20250610	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-13DL	RE131D2-20250610DL	Water			06/10/25			06/11/25
	L		SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-14	DUP02-20250610	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-14DL	DUP02-20250610DL	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-15	TT174I1-20250610	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-16	RE134D4-20250610	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-17	RE134D3-20250610	Water			06/10/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-17DL	RE134D3-20250610DL	Water			06/10/25			06/11/25
	L		SVOC-SIMGroup1	8270-Modified		06/13/25	06/16/25	
Q2299-18	TT190D1-20250611	Water			06/11/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-19	RW11-MW01I-20250611	Water			06/11/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-20	RW11-MW01S-20250611	Water			06/11/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-21	RE134D1-20250611	Water			06/11/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2299-22	TT190D2-20250611	Water			06/11/25			06/11/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	



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

Hit Summary Sheet SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE117D1-20250609								
Q2299-01	RE117D1-20250609	WATER	1,4-Dioxane	0.630		0.07	0.2	0.2	ug/L
			Total Svoc :			0.63			
			Total Concentration:			0.63			
Client ID :	TT191D1-20250609								
Q2299-05	TT191D1-20250609	WATER	1,4-Dioxane	2.300	M	0.07	0.2	0.2	ug/L
			Total Svoc :			2.30			
			Total Concentration:			2.30			
Client ID :	TT191D2-20250609								
Q2299-06	TT191D2-20250609	WATER	1,4-Dioxane	0.370		0.07	0.2	0.2	ug/L
			Total Svoc :			0.37			
			Total Concentration:			0.37			
Client ID :	RW10-MW01S-20250609								
Q2299-07	RW10-MW01S-20250609	WATER	1,4-Dioxane	0.090	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.09			
			Total Concentration:			0.09			
Client ID :	RW10A-MW01S-20250609								
Q2299-09	RW10A-MW01S-20250609	WATER	1,4-Dioxane	0.150	J	0.07	0.21	0.21	ug/L
			Total Svoc :			0.15			
			Total Concentration:			0.15			
Client ID :	RE131D2-20250610								
Q2299-13	RE131D2-20250610	WATER	1,4-Dioxane	10.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			10.20			
			Total Concentration:			10.20			
Client ID :	RE131D2-20250610DL								
Q2299-13DL	RE131D2-20250610DL	WATER	1,4-Dioxane	13.200	D	0.33	1	1	ug/L
			Total Svoc :			13.20			
			Total Concentration:			13.20			
Client ID :	DUP02-20250610								
Q2299-14	DUP02-20250610	WATER	1,4-Dioxane	8.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :			8.40			
			Total Concentration:			8.40			
Client ID :	DUP02-20250610DL								
Q2299-14DL	DUP02-20250610DL	WATER	1,4-Dioxane	11.100	D	0.33	1	1	ug/L
			Total Svoc :			11.10			

Hit Summary Sheet
SW-846

SDG No.: Q2299
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:			11.10					
Client ID :	TT174H1-20250610							
Q2299-15	TT174H1-20250610	WATER	1,4-Dioxane	0.600	0.07	0.2	0.2	ug/L
Total Svoc :			0.60					
Total Concentration:			0.60					
Client ID :	RE134D4-20250610							
Q2299-16	RE134D4-20250610	WATER	1,4-Dioxane	1.700	0.07	0.2	0.2	ug/L
Total Svoc :			1.70					
Total Concentration:			1.70					
Client ID :	RE134D3-20250610							
Q2299-17	RE134D3-20250610	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 :	RE134D3-20250610DL							
Q2299-17DL	RE134D3-20250610DL	WATER	1,4-Dioxane	6.600	D 0.13	0.4	0.4	ug/L
Total Svoc :			6.60					
Total Concentration:			6.60					
Client ID :	TT190D1-20250611							
Q2299-18	TT190D1-20250611	WATER	1,4-Dioxane	1.400	0.07	0.2	0.2	ug/L
Total Svoc :			1.40					
Total Concentration:			1.40					
Client ID :	RE134D1-20250611							
Q2299-21	RE134D1-20250611	WATER	1,4-Dioxane	0.910	0.07	0.21	0.21	ug/L
Total Svoc :			0.91					
Total Concentration:			0.91					
Client ID :	TT190D2-20250611							
Q2299-22	TT190D2-20250611	WATER	1,4-Dioxane	1.300	0.07	0.2	0.2	ug/L
Total Svoc :			1.30					
Total Concentration:			1.30					



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168458BL	PB168458BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168458BS	PB168458BS	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q2299-01	RE117D1-20250609	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q2299-02	RE117D2-20250609	2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-03MS	TT191D1-20250609MS	2-Methylnaphthalene-d10	0.4	0.26	66		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q2299-04MSD	TT191D1-20250609MSD	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.43	106		58	132
Q2299-05	TT191D1-20250609	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.25	61		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q2299-06	TT191D2-20250609	2-Methylnaphthalene-d10	0.4	0.25	61		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.23	57		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-07	RW10-MW01S-20250609	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.28	70		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2299-08	RW10-MW01D-20250609	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.25	62		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2299-09	RW10A-MW01S-20250609	2-Methylnaphthalene-d10	0.4	0.32	79		30	150

Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2299-09	RW10A-MW01S-20250609	Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.54	136	*	58	132
Q2299-10	RW10A-MW01I-20250609	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
Q2299-11	TT158I1-20250610	Terphenyl-d14	0.4	0.47	117		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.25	62		55	111
Q2299-12	DUP01-20250610	2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
Q2299-13	RE131D2-20250610	Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.73	182	*	58	132
		2-Methylnaphthalene-d10	0.4	0.33	82		30	150
Q2299-13DL	RE131D2-20250610DL	Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2299-14	DUP02-20250610	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
Q2299-14DL	DUP02-20250610DL	Terphenyl-d14	0.4	0.61	151	*	58	132
		2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
Q2299-15	TT174I1-20250610	2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.85	212	*	58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
Q2299-16	RE134D4-20250610	Nitrobenzene-d5	0.4	0.20	49	*	55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	1.15	288	*	58	132
		2-Methylnaphthalene-d10	0.4	0.30	74		30	150
Q2299-17	RE134D3-20250610	Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2299-18	RE134D4-20250610	2-Methylnaphthalene-d10	0.4	0.29	74		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
Q2299-19	RE134D3-20250610	Terphenyl-d14	0.4	0.40	100		58	132
		2-Methylnaphthalene-d10	0.4	0.32	80		30	150
Q2299-20	RE134D3-20250610	Fluoranthene-d10	0.4	0.41	103		30	150

Surrogate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2299-17	RE134D3-20250610	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q2299-17DL	RE134D3-20250610DL	2-Methylnaphthalene-d10	0.4	0.31	79		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
Q2299-18	TT190D1-20250611	2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.44	110		58	132
		2-Methylnaphthalene-d10	0.4	0.31	77		30	150
Q2299-19	RW11-MW01I-20250611	Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
Q2299-20	RW11-MW01S-20250611	Terphenyl-d14	0.4	0.42	104		58	132
		2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
Q2299-21	RE134D1-20250611	Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q2299-22	TT190D2-20250611	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
Q2299-23	RW11-MW01S-20250611	2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
		2-Methylnaphthalene-d10	0.4	0.30	75		30	150
Q2299-24	RE134D1-20250611	Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
Q2299-25	TT190D2-20250611	Terphenyl-d14	0.4	0.46	116		58	132
		2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
Q2299-26	RW11-MW01S-20250611	Nitrobenzene-d5	0.4	0.24	60		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.50	125		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2299-03MS		Client Sample ID: TT191D1-20250609MS						DataFile: BN037246.D			
1,4-Dioxane	0.4	2.30	2.10	ug/L	-50	*			70	130	



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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2299-04MSD	Client Sample ID:	TT191D1-20250609MSD					DataFile:	BN037247.D		
1,4-Dioxane	0.4	2.30	2.30	ug/L	0	*	200	*	70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2299

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037270.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168458BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168458BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q2299

SAS No.: Q2299 SDG NO.: Q2299

Lab File ID: BN037241.D

Lab Sample ID: PB168458BL

Instrument ID: BNA_N

Date Extracted: 06/13/2025

Matrix: (soil/water) Water

Date Analyzed: 06/14/2025

Level: (low/med) LOW

Time Analyzed: 00:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168458BS	PB168458BS	BN037270.D	06/14/2025
RE117D1-20250609	Q2299-01	BN037244.D	06/14/2025
RE117D2-20250609	Q2299-02	BN037245.D	06/14/2025
TT191D1-20250609MS	Q2299-03MS	BN037246.D	06/14/2025
TT191D1-20250609MSD	Q2299-04MSD	BN037247.D	06/14/2025
TT191D1-20250609	Q2299-05	BN037248.D	06/14/2025
TT191D2-20250609	Q2299-06	BN037249.D	06/14/2025
RW10-MW01S-20250609	Q2299-07	BN037250.D	06/14/2025
RW10-MW01D-20250609	Q2299-08	BN037251.D	06/14/2025
RW10A-MW01S-20250609	Q2299-09	BN037252.D	06/14/2025
RW10A-MW01I-20250609	Q2299-10	BN037253.D	06/14/2025
TT158I1-20250610	Q2299-11	BN037254.D	06/14/2025
DUP01-20250610	Q2299-12	BN037255.D	06/14/2025
RE131D2-20250610	Q2299-13	BN037256.D	06/14/2025
DUP02-20250610	Q2299-14	BN037261.D	06/14/2025
TT174I1-20250610	Q2299-15	BN037262.D	06/14/2025
RE134D4-20250610	Q2299-16	BN037263.D	06/14/2025
RE134D3-20250610	Q2299-17	BN037264.D	06/14/2025
TT190D1-20250611	Q2299-18	BN037265.D	06/14/2025
RW11-MW01I-20250611	Q2299-19	BN037266.D	06/14/2025
RW11-MW01S-20250611	Q2299-20	BN037267.D	06/14/2025
RE134D1-20250611	Q2299-21	BN037268.D	06/14/2025
TT190D2-20250611	Q2299-22	BN037269.D	06/14/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q2299

SDG NO.: Q2299

Lab File ID: BN037223.D

DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (0.4) 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	5.3
441	Present, but less than mass 443	90.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (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
SSTDICC0.1	SSTDICC0.1	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2299 SDG NO.: Q2299Lab File ID: BN037239.DDFTPP Injection Date: 06/13/2025Instrument ID: BNA_NDFTPP Injection Time: 23:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (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	6.5
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	83.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037240.D	06/13/2025	23:55
PB168458BL	PB168458BL	BN037241.D	06/14/2025	00:31
RE117D1-20250609	Q2299-01	BN037244.D	06/14/2025	02:20
RE117D2-20250609	Q2299-02	BN037245.D	06/14/2025	02:56
TT191D1-20250609MS	Q2299-03MS	BN037246.D	06/14/2025	03:32
TT191D1-20250609MSD	Q2299-04MSD	BN037247.D	06/14/2025	04:08
TT191D1-20250609	Q2299-05	BN037248.D	06/14/2025	04:45
TT191D2-20250609	Q2299-06	BN037249.D	06/14/2025	05:21
RW10-MW01S-20250609	Q2299-07	BN037250.D	06/14/2025	05:57
RW10-MW01D-20250609	Q2299-08	BN037251.D	06/14/2025	06:33
RW10A-MW01S-20250609	Q2299-09	BN037252.D	06/14/2025	07:09
RW10A-MW01I-20250609	Q2299-10	BN037253.D	06/14/2025	07:46
TT158I1-20250610	Q2299-11	BN037254.D	06/14/2025	08:22
DUP01-20250610	Q2299-12	BN037255.D	06/14/2025	08:58
RE131D2-20250610	Q2299-13	BN037256.D	06/14/2025	09:34
SSTDCCC0.4EC	SSTDCCC0.4	BN037257.D	06/14/2025	10:10



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2299SDG NO.: Q2299Lab File ID: BN037258.DDFTPP Injection Date: 06/14/2025Instrument ID: BNA_NDFTPP Injection Time: 12:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (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	7.3
365	Greater than 1% of mass 198	5.4
441	Present, but less than mass 443	84.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.1 (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	BN037259.D	06/14/2025	13:23
DUP02-20250610	Q2299-14	BN037261.D	06/14/2025	14:35
TT174I1-20250610	Q2299-15	BN037262.D	06/14/2025	15:11
RE134D4-20250610	Q2299-16	BN037263.D	06/14/2025	15:47
RE134D3-20250610	Q2299-17	BN037264.D	06/14/2025	16:23
TT190D1-20250611	Q2299-18	BN037265.D	06/14/2025	17:00
RW11-MW01I-20250611	Q2299-19	BN037266.D	06/14/2025	17:36
RW11-MW01S-20250611	Q2299-20	BN037267.D	06/14/2025	18:12
RE134D1-20250611	Q2299-21	BN037268.D	06/14/2025	18:48
TT190D2-20250611	Q2299-22	BN037269.D	06/14/2025	19:24
PB168458BS	PB168458BS	BN037270.D	06/14/2025	20:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037271.D	06/14/2025	20:36



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2299 SDG NO.: Q2299Lab File ID: BN037283.DDFTPP Injection Date: 06/16/2025Instrument ID: BNA_NDFTPP Injection Time: 09:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (0.4) 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	5.1
441	Present, but less than mass 443	92.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (17.3) 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	BN037284.D	06/16/2025	10:23
RE134D3-20250610DL	Q2299-17DL	BN037286.D	06/16/2025	11:39
RE131D2-20250610DL	Q2299-13DL	BN037287.D	06/16/2025	12:15
DUP02-20250610DL	Q2299-14DL	BN037288.D	06/16/2025	12:51
SSTDCCC0.4EC	SSTDCCC0.4	BN037289.D	06/16/2025	13:53

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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	1101	7.582	2581	10.35	1319	14.22
UPPER LIMIT	2202	8.082	5162	10.851	2638	14.724
LOWER LIMIT	550.5	7.082	1290.5	9.851	659.5	13.724
EPA SAMPLE NO.						
01 PB168458BL	1034	7.58	2349	10.36	1253	14.24
02 RE117D1-20250609	786	7.58	1976	10.36	1112	14.22
03 RE117D2-20250609	884	7.58	2161	10.36	1194	14.22
04 TT191D1-20250609MS	952	7.58	2349	10.35	1209	14.22
05 TT191D1-20250609MSD	888	7.58	2241	10.35	1184	14.22
06 TT191D1-20250609	959	7.58	2360	10.36	1260	14.22
07 TT191D2-20250609	966	7.58	2320	10.36	1237	14.22
08 RW10-MW01S-20250609	913	7.58	2259	10.36	1194	14.22
09 RW10-MW01D-20250609	978	7.58	2447	10.36	1301	14.22
10 RW10A-MW01S-20250609	993	7.58	2388	10.35	1287	14.22
11 RW10A-MW01I-20250609	968	7.58	2339	10.36	1252	14.22
12 TT158I1-20250610	883	7.58	2223	10.36	1185	14.22
13 DUP01-20250610	902	7.58	2240	10.36	1189	14.22
14 RE131D2-20250610	1021	7.58	2392	10.36	1295	14.22

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: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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	2396	16.971	1787	21.171	1797	23.36
UPPER LIMIT	4792	17.471	3574	21.671	3594	23.86
LOWER LIMIT	1198	16.471	893.5	20.671	898.5	22.86
EPA SAMPLE NO.						
01 PB168458BL	2010	16.98	1424	21.18	1183	23.37
02 RE117D1-20250609	2088	16.98	1833	21.18	1896	23.36
03 RE117D2-20250609	2020	16.98	1612	21.18	1755	23.36
04 TT191D1-20250609MS	2152	16.97	1734	21.17	1757	23.36
05 TT191D1-20250609MSD	2199	16.97	1956	21.17	1969	23.36
06 TT191D1-20250609	2273	16.98	1959	21.17	2013	23.36
07 TT191D2-20250609	2179	16.98	1692	21.17	1750	23.36
08 RW10-MW01S-20250609	2140	16.97	1781	21.17	1845	23.36
09 RW10-MW01D-20250609	2259	16.97	1680	21.18	1691	23.36
10 RW10A-MW01S-20250609	2304	16.97	1687	21.17	1690	23.36
11 RW10A-MW01I-20250609	2096	16.97	1604	21.18	1645	23.36
12 TT158I1-20250610	1991	16.97	1557	21.18	1567	23.36
13 DUP01-20250610	2107	16.97	1643	21.18	1624	23.36
14 RE131D2-20250610	2221	16.97	1842	21.18	1819	23.36

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: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037259.D Time Analyzed: 13:23

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	1044	7.575	2562	10.35	1268	14.22
UPPER LIMIT	2088	8.075	5124	10.851	2536	14.724
LOWER LIMIT	522	7.075	1281	9.851	634	13.724
EPA SAMPLE NO.						
01 PB168458BS	1588	7.58	3911	10.35	1944	14.22
02 DUP02-20250610	856	7.58	2177	10.35	1128	14.22
03 TT174I1-20250610	939	7.58	2285	10.36	1178	14.22
04 RE134D4-20250610	977	7.58	2442	10.35	1265	14.22
05 RE134D3-20250610	1012	7.58	2458	10.35	1295	14.22
06 TT190D1-20250611	1132	7.58	2844	10.35	1545	14.22
07 RW11-MW01I-20250611	1325	7.58	3321	10.35	1702	14.22
08 RW11-MW01S-20250611	1398	7.58	3634	10.35	1888	14.22
09 RE134D1-20250611	1239	7.58	3144	10.35	1632	14.22
10 TT190D2-20250611	1248	7.58	3038	10.35	1624	14.22

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: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037259.D Time Analyzed: 13:23

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	2318	16.971	1702	21.171	1789	23.36
UPPER LIMIT	4636	17.471	3404	21.671	3578	23.86
LOWER LIMIT	1159	16.471	851	20.671	894.5	22.86
EPA SAMPLE NO.						
01 PB168458BS	3410	16.97	2495	21.17	2298	23.36
02 DUP02-20250610	2247	16.97	1734	21.17	1724	23.36
03 TT174I1-20250610	2047	16.97	1682	21.17	1693	23.36
04 RE134D4-20250610	2241	16.97	1763	21.18	1807	23.36
05 RE134D3-20250610	2300	16.97	2027	21.17	2087	23.36
06 TT190D1-20250611	2840	16.97	2558	21.17	2398	23.36
07 RW11-MW01I-20250611	3112	16.97	2629	21.17	2551	23.36
08 RW11-MW01S-20250611	3453	16.97	2450	21.17	2246	23.36
09 RE134D1-20250611	2957	16.97	2278	21.17	2145	23.36
10 TT190D2-20250611	2851	16.97	2132	21.17	1996	23.36

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: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/16/2025

Lab File ID: BN037284.D Time Analyzed: 10:23

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	1056	7.575	2600	10.35	1364	14.22
UPPER LIMIT	2112	8.075	5200	10.851	2728	14.724
LOWER LIMIT	528	7.075	1300	9.851	682	13.724
EPA SAMPLE NO.						
01 RE131D2-20250610DL	771	7.58	1898	10.36	1101	14.22
02 DUP02-20250610DL	691	7.58	1765	10.36	1009	14.22
03 RE134D3-20250610DL	929	7.58	2314	10.36	1314	14.22

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: CHEMTECH

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG NO.: Q2299

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/16/2025

Lab File ID: BN037284.D Time Analyzed: 10:23

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	2522	16.971	1830	21.171	1806	23.36
UPPER LIMIT	5044	17.471	3660	21.671	3612	23.86
LOWER LIMIT	1261	16.471	915	20.671	903	22.86
EPA SAMPLE NO.						
01 RE131D2-20250610DL	1810	16.98	1371	21.18	1300	23.37
02 DUP02-20250610DL	1902	16.97	1313	21.18	1237	23.37
03 RE134D3-20250610DL	2315	16.97	1782	21.18	1749	23.36

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE117D1-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-01	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
BN037244.D	1	06/13/25 08:03	06/14/25 02:20	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.63		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	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	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	786	7.582				
1146-65-2	Naphthalene-d8	1980	10.361				
15067-26-2	Acenaphthene-d10	1110	14.223				
1517-22-2	Phenanthrene-d10	2090	16.983				
1719-03-5	Chrysene-d12	1830	21.179				
1520-96-3	Perylene-d12	1900	23.362				

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\BN061325\
 Data File : BN037244.D
 Acq On : 14 Jun 2025 02:20
 Operator : RC/JU
 Sample : Q2299-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE117D1-20250609

Quant Time: Jun 14 03:25:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

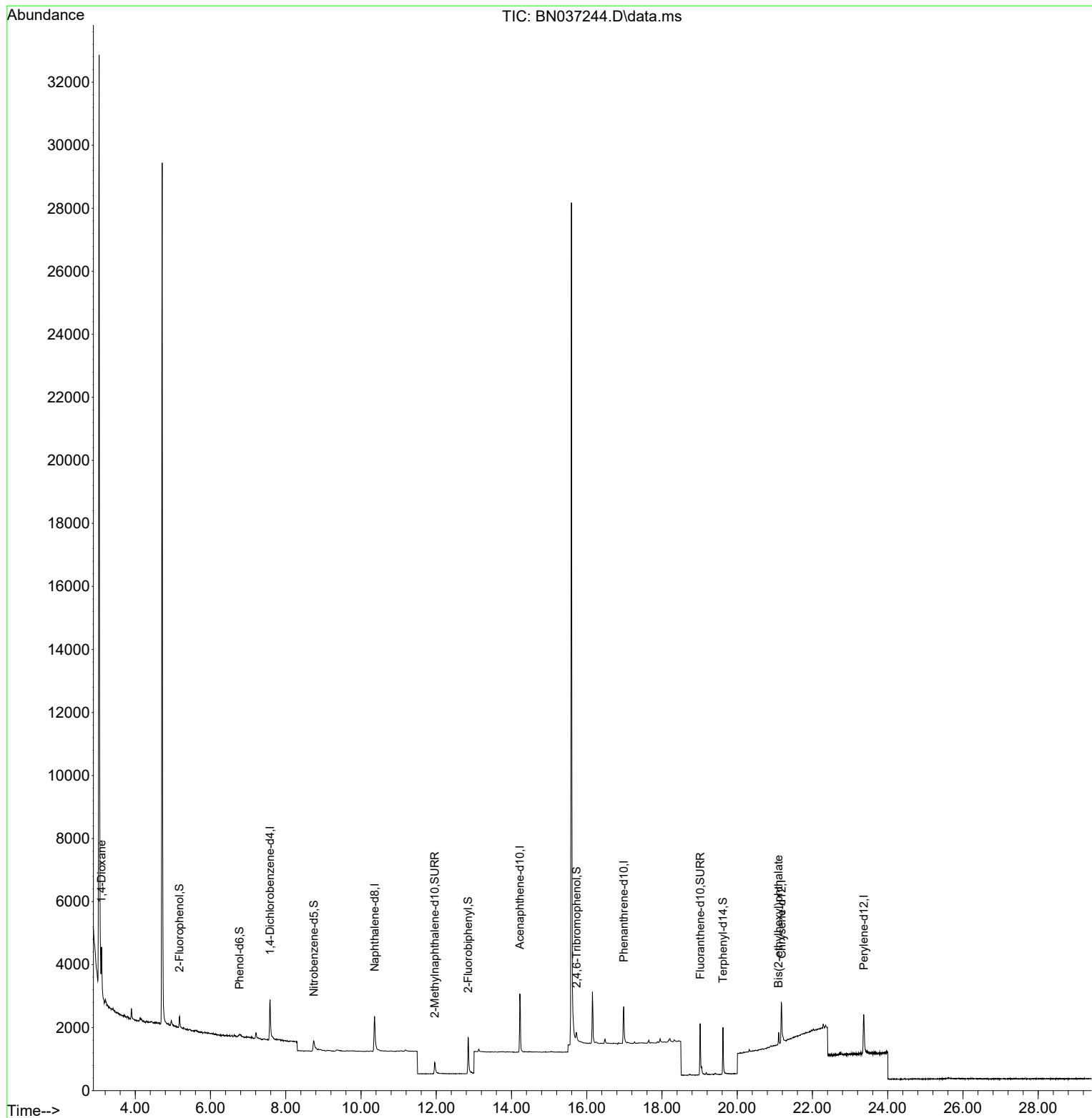
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	786	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	1976	0.400	ng	# 0.00
13) Acenaphthene-d10	14.223	164	1112	0.400	ng	0.00
19) Phenanthrene-d10	16.983	188	2088	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	1833	0.400	ng	0.00
35) Perylene-d12	23.362	264	1896	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	274	0.142	ng	0.00
5) Phenol-d6	6.773	99	147	0.072	ng	0.01
8) Nitrobenzene-d5	8.749	82	507	0.260	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	741	0.279	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	155	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.847	172	1279	0.274	ng	0.00
27) Fluoranthene-d10	19.016	212	2155	0.394	ng	0.00
31) Terphenyl-d14	19.620	244	1634	0.394	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	678	0.629	ng	# 70
34) Bis(2-ethylhexyl)phtha...	21.099	149	406	0.088	ng	# 98

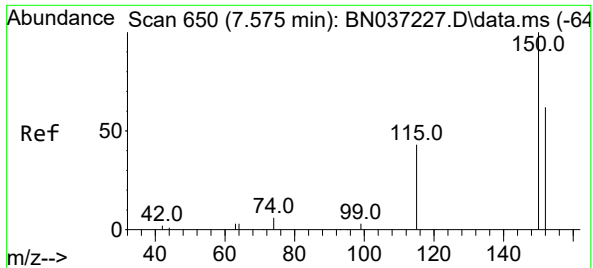
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037244.D
Acq On : 14 Jun 2025 02:20
Operator : RC/JU
Sample : Q2299-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

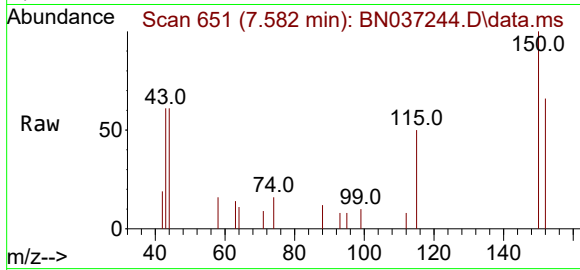
Quant Time: Jun 14 03:25:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



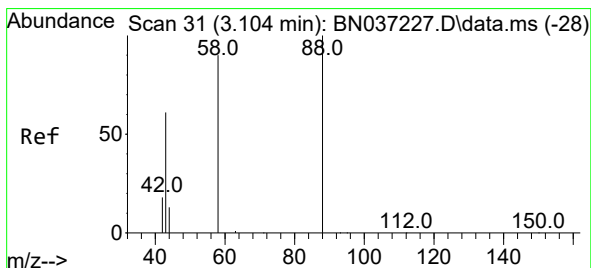
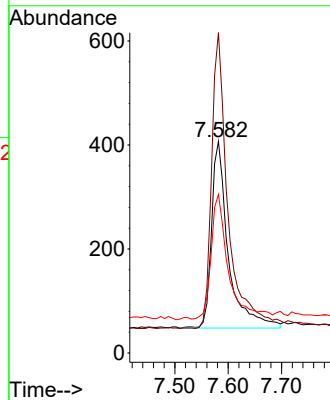
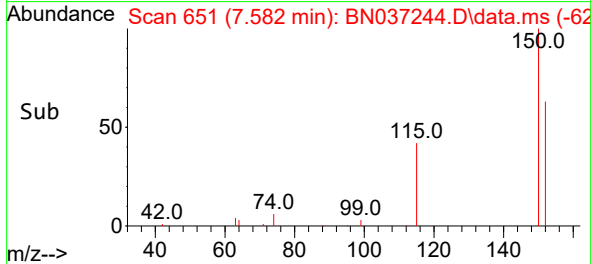


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

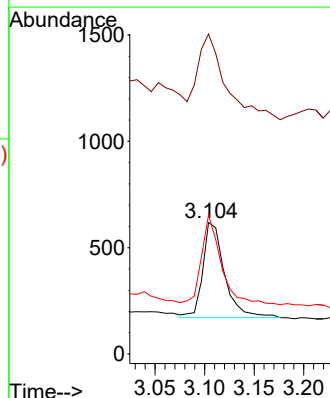
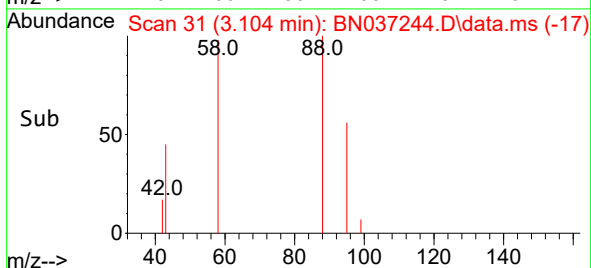
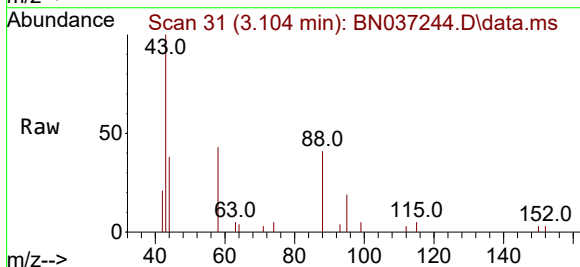


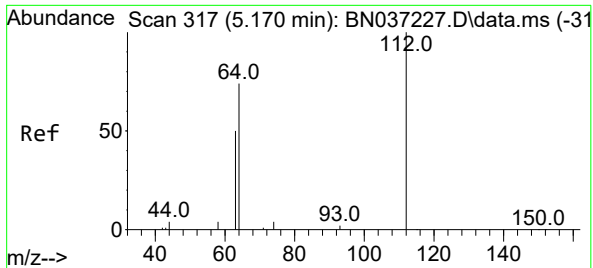
Tgt Ion:152 Resp: 786
Ion Ratio Lower Upper
152 100
150 151.4 125.2 187.8
115 74.9 58.4 87.6



#2
1,4-Dioxane
Concen: 0.629 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion: 88 Resp: 678
Ion Ratio Lower Upper
88 100
43 116.7 52.6 79.0#
58 86.0 73.5 110.3

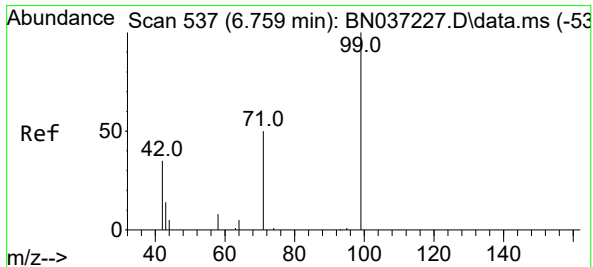
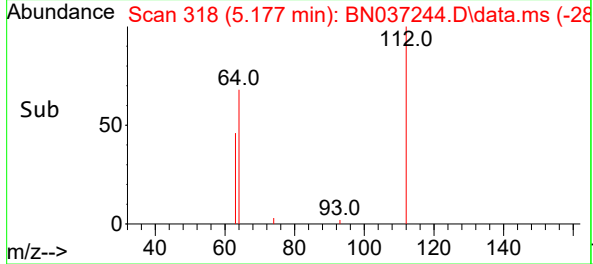
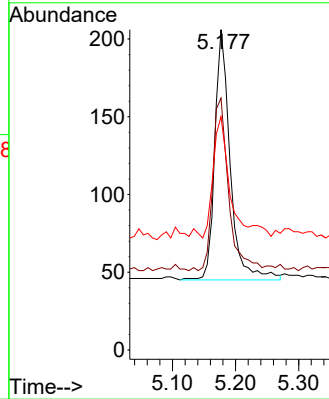
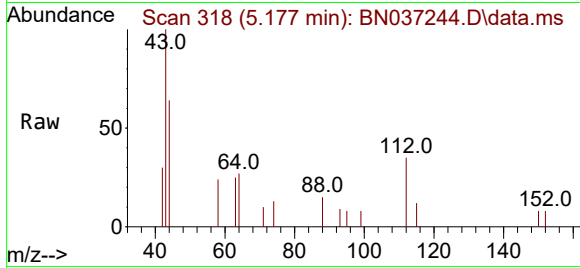




#4
2-Fluorophenol
Concen: 0.142 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

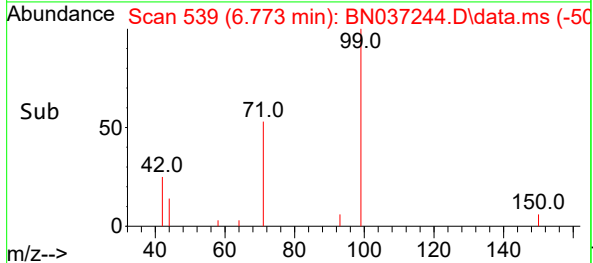
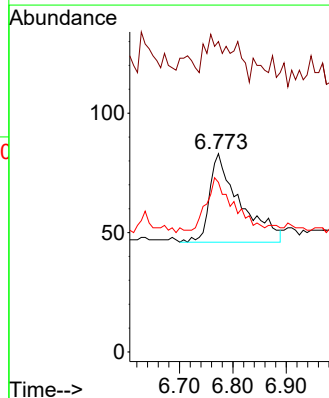
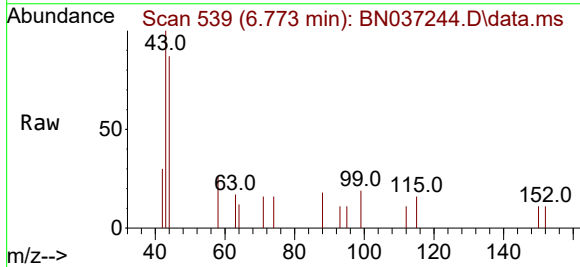
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

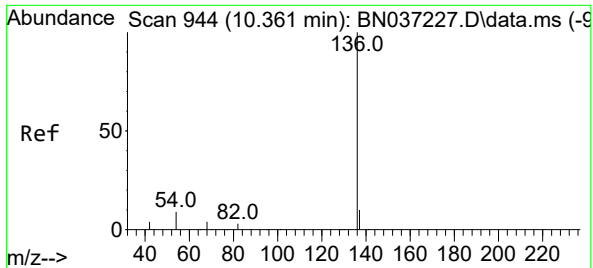
Tgt Ion:112 Resp: 274
Ion Ratio Lower Upper
112 100
64 71.2 57.2 85.8
63 49.3 39.8 59.6



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.014 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion: 99 Resp: 147
Ion Ratio Lower Upper
99 100
42 25.9 36.2 54.4#
71 53.1 42.4 63.6

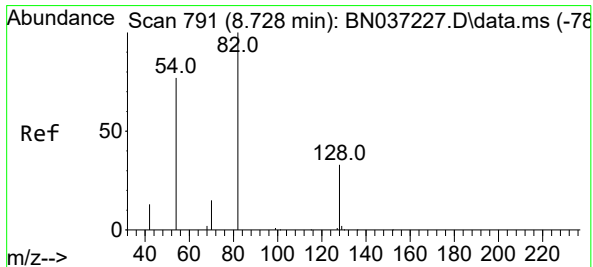
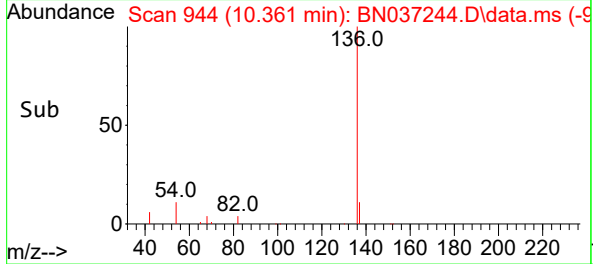
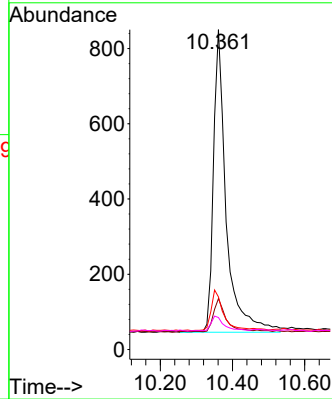
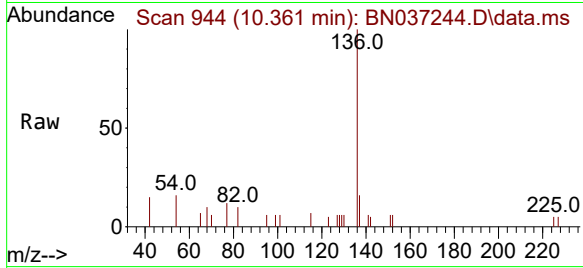




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

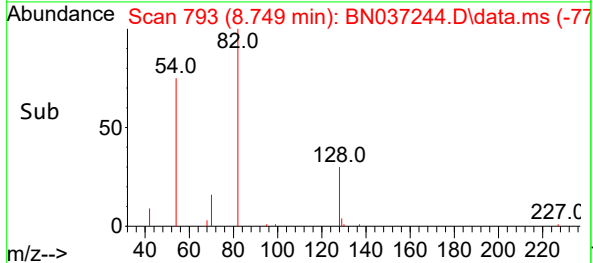
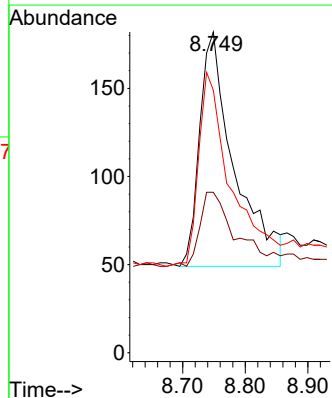
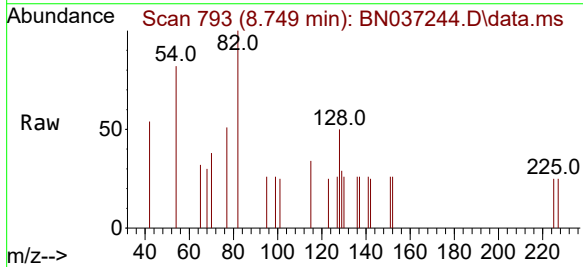
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

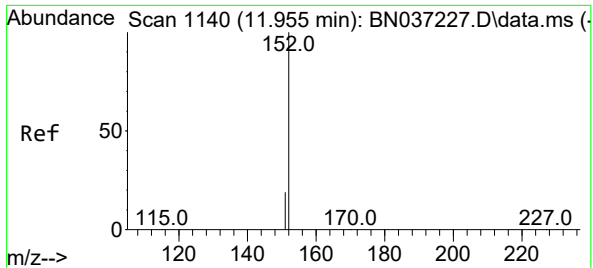
Tgt Ion:	136	Resp:	1976
Ion	Ratio	Lower	Upper
136	100		
137	15.9	10.6	15.8#
54	16.5	9.2	13.8#
68	10.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.260 ng
RT: 8.749 min Scan# 793
Delta R.T. 0.021 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:	82	Resp:	507
Ion	Ratio	Lower	Upper
82	100		
128	50.0	31.2	46.8#
54	81.9	63.3	94.9

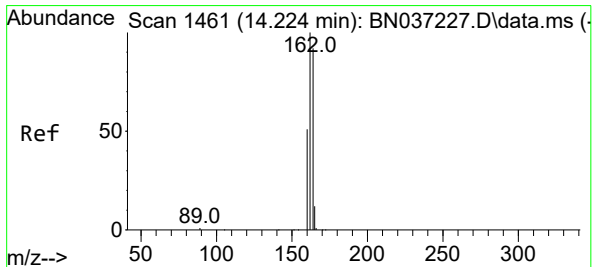
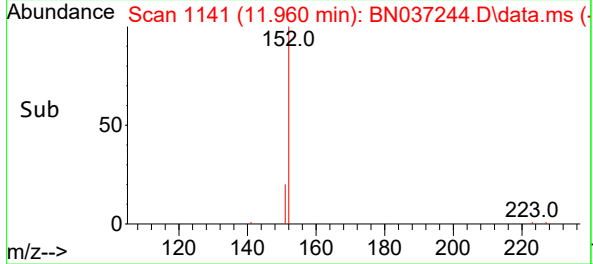
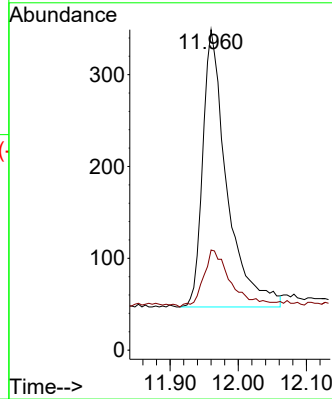
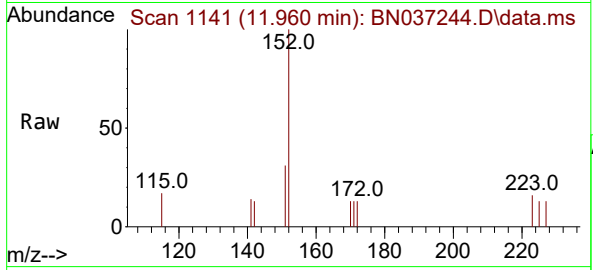




#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

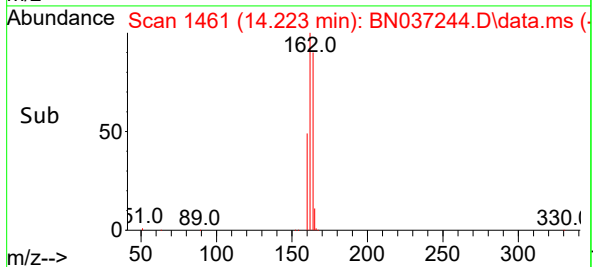
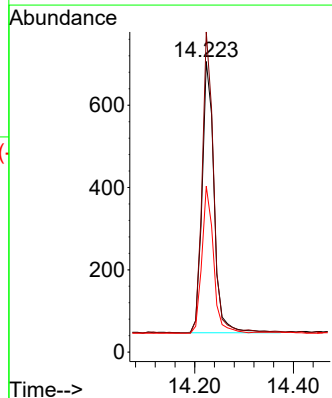
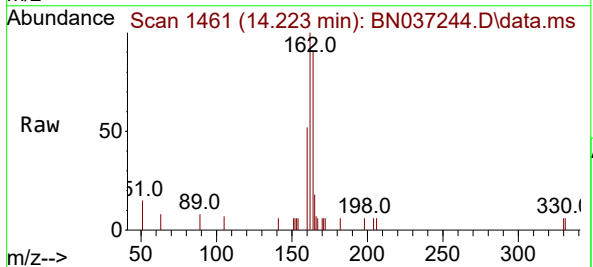
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

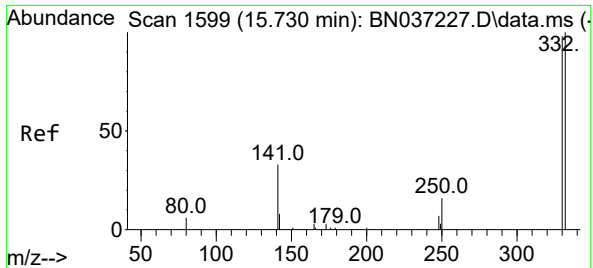
Tgt Ion:152 Resp: 741
Ion Ratio Lower Upper
152 100
151 23.5 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.223 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:164 Resp: 1112
Ion Ratio Lower Upper
164 100
162 110.2 86.7 130.1
160 57.1 45.8 68.6

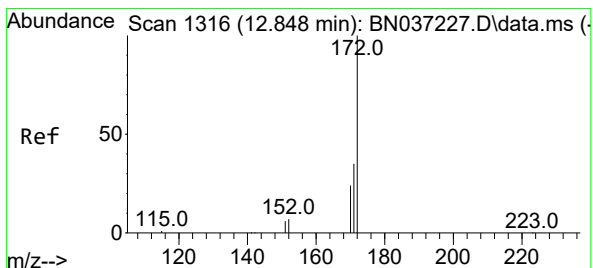
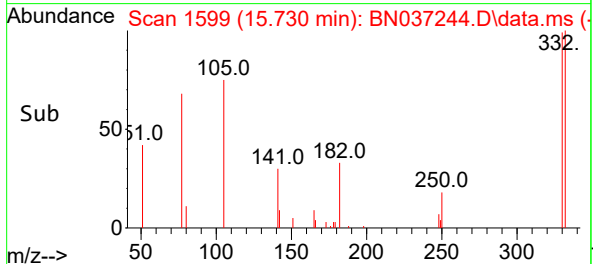
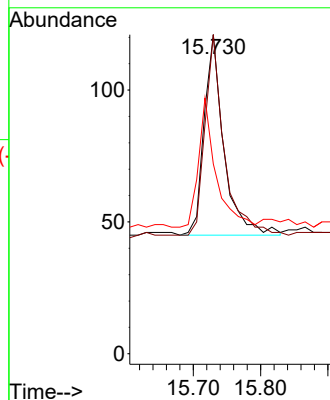
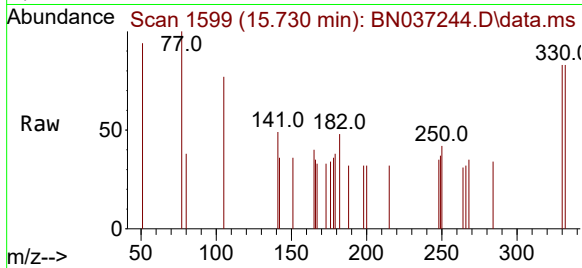




#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

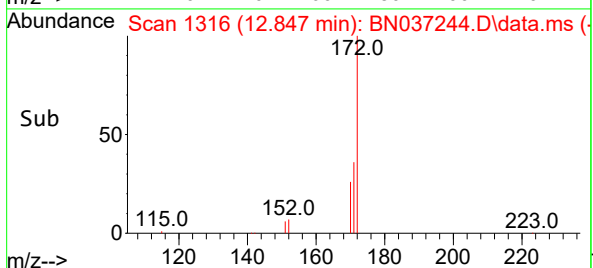
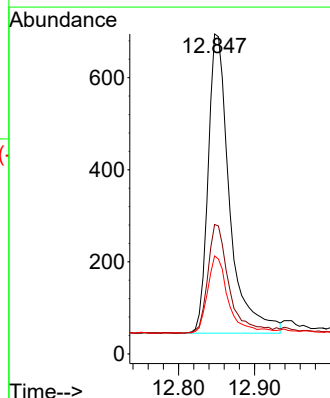
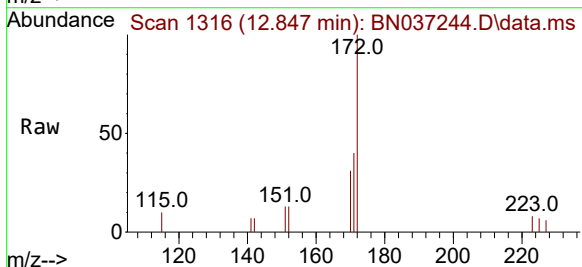
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

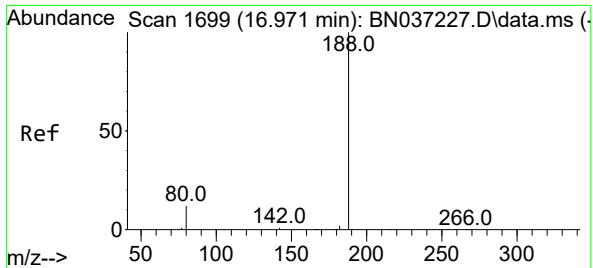
Tgt Ion	330	Resp:	155
Ion	Ratio	Lower	Upper
330	100		
332	96.8	74.9	112.3
141	56.8	45.1	67.7



#15
2-Fluorobiphenyl
Concen: 0.274 ng
RT: 12.847 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion	172	Resp:	1279
Ion	Ratio	Lower	Upper
172	100		
171	40.4	29.8	44.8
170	30.6	21.1	31.7

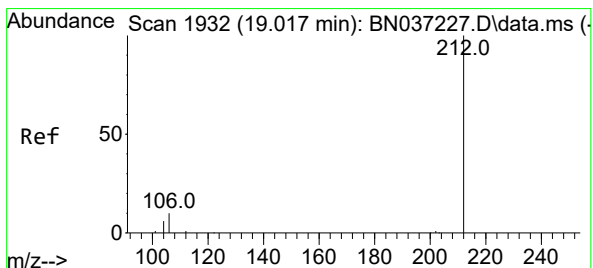
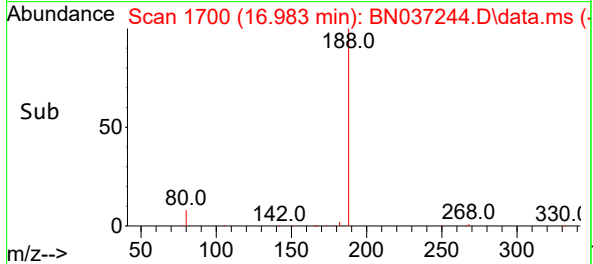
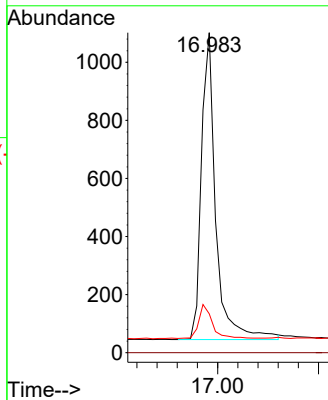
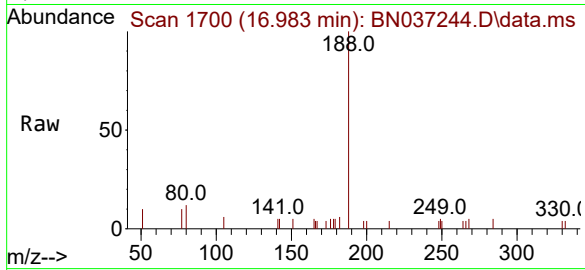




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.983 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

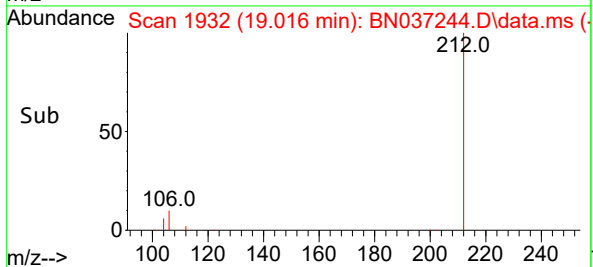
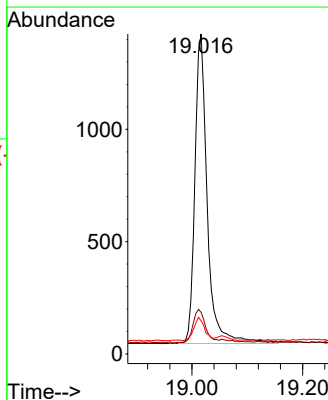
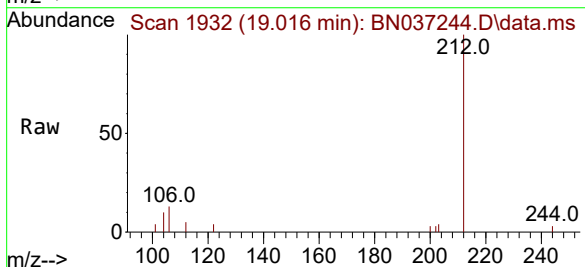
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

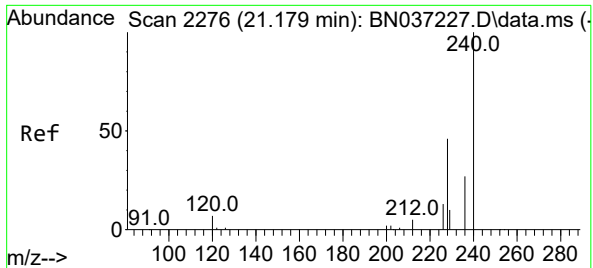
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	12.2	18.4#



#27
Fluoranthene-d10
Concen: 0.394 ng
RT: 19.016 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

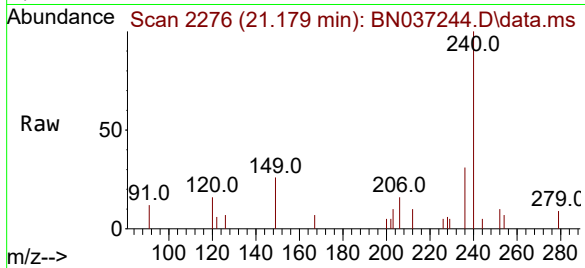
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.3	13.9
104	6.8	5.7	8.5



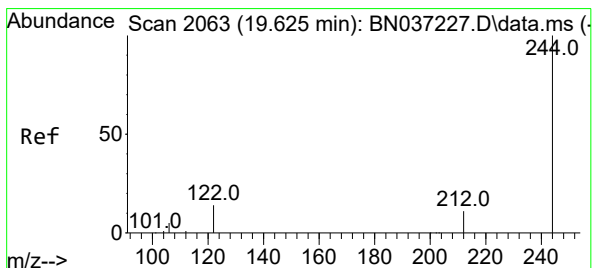
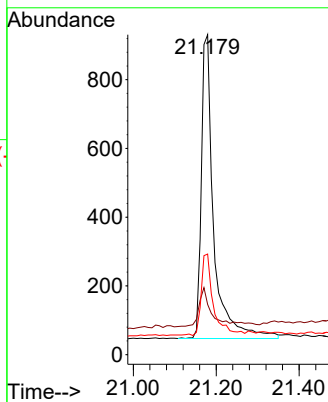
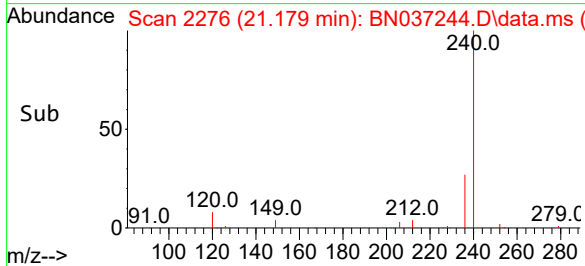


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

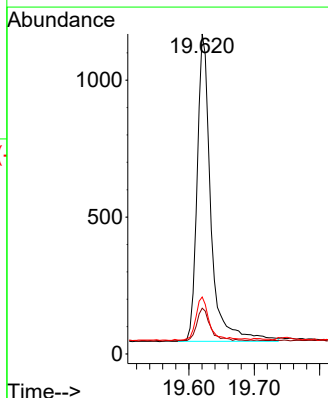
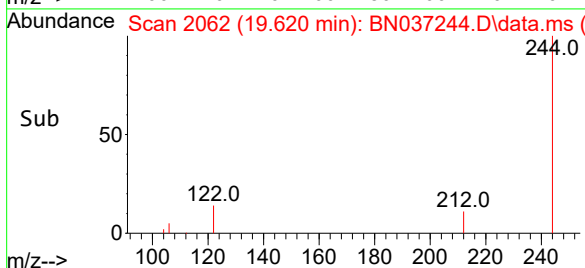
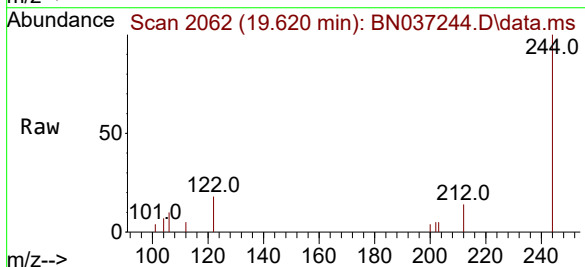


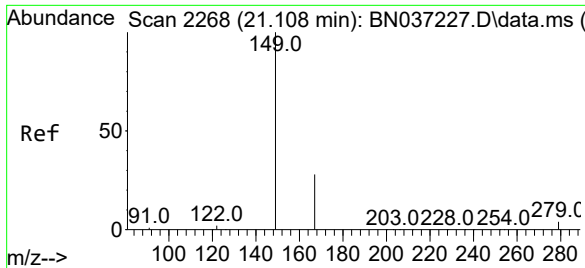
Tgt Ion:240 Resp: 1833
Ion Ratio Lower Upper
240 100
120 15.7 11.3 16.9
236 31.5 24.4 36.6



#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.620 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:244 Resp: 1634
Ion Ratio Lower Upper
244 100
212 14.3 12.2 18.2
122 17.8 14.3 21.5

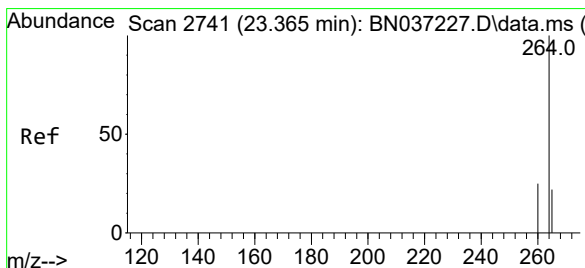
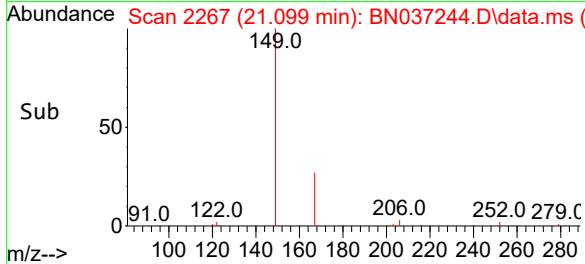
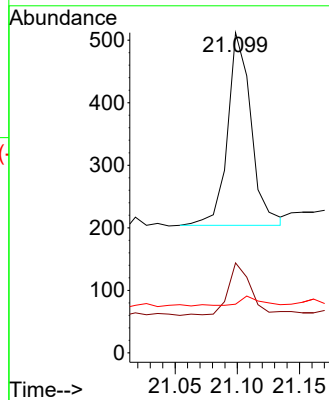
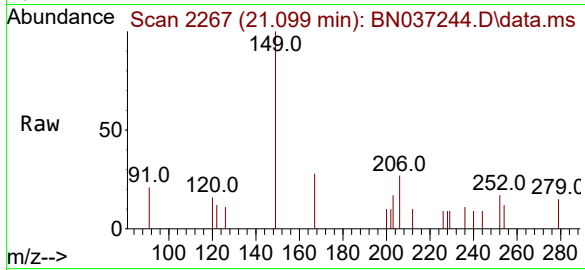




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

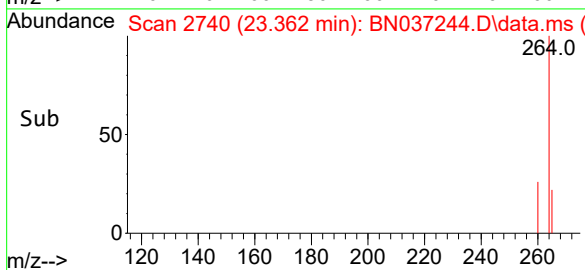
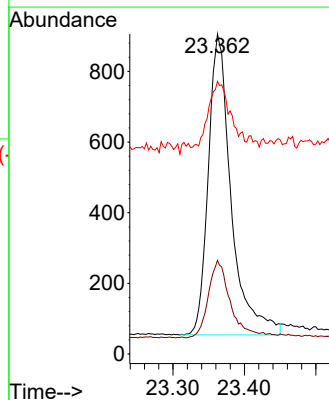
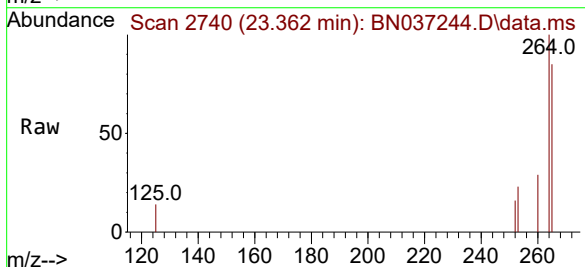
Instrument :
BNA_N
ClientSampleId :
RE117D1-20250609

Tgt Ion:149 Resp: 406
Ion Ratio Lower Upper
149 100
167 27.8 21.3 31.9
279 4.9 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037244.D
Acq: 14 Jun 2025 02:20

Tgt Ion:264 Resp: 1896
Ion Ratio Lower Upper
264 100
260 29.2 22.8 34.2
265 85.2 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE117D2-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-02	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
BN037245.D	1	06/13/25 08:03	06/14/25 02:56	PB168458

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		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	884		7.582			
1146-65-2	Naphthalene-d8	2160		10.362			
15067-26-2	Acenaphthene-d10	1190		14.224			
1517-22-2	Phenanthrene-d10	2020		16.984			
1719-03-5	Chrysene-d12	1610		21.18			
1520-96-3	Perylene-d12	1760		23.363			

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\BN061325\
 Data File : BN037245.D
 Acq On : 14 Jun 2025 02:56
 Operator : RC/JU
 Sample : Q2299-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE117D2-20250609

Quant Time: Jun 14 04:21:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

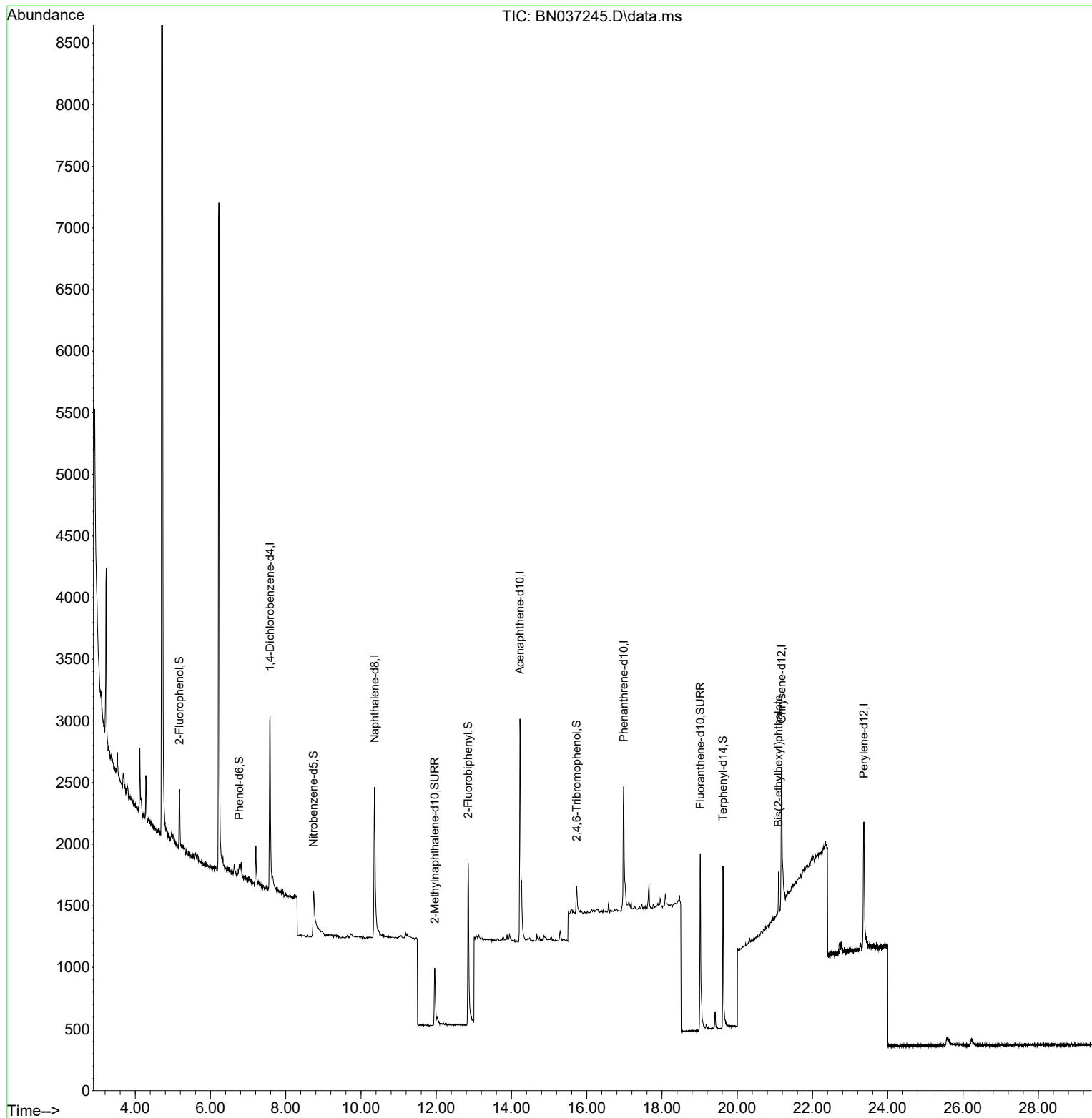
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	884	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2161	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1194	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2020	0.400	ng	# 0.01
29) Chrysene-d12	21.180	240	1612	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1755	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	341	0.157	ng	0.00
5) Phenol-d6	6.766	99	156	0.068	ng	0.00
8) Nitrobenzene-d5	8.739	82	596	0.279	ng	0.01
11) 2-Methylnaphthalene-d10	11.961	152	942	0.325	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	158	0.319	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1629	0.325	ng	0.00
27) Fluoranthene-d10	19.017	212	2058	0.389	ng	0.00
31) Terphenyl-d14	19.621	244	1634	0.448	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	383	0.094	ng	# 94

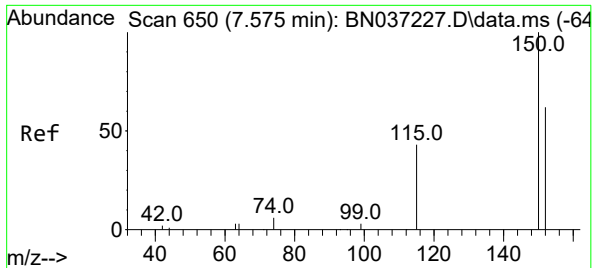
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037245.D
Acq On : 14 Jun 2025 02:56
Operator : RC/JU
Sample : Q2299-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

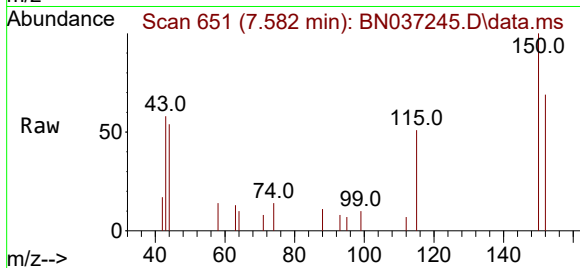
Quant Time: Jun 14 04:21:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



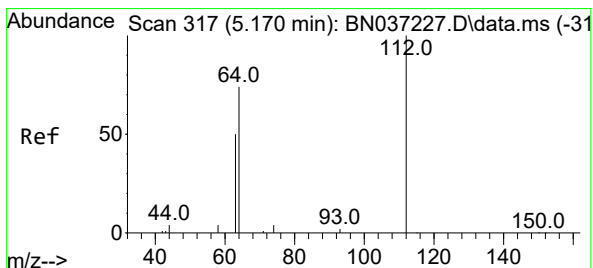
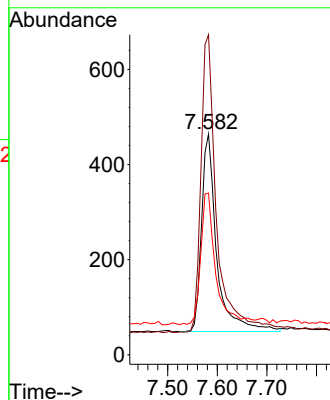
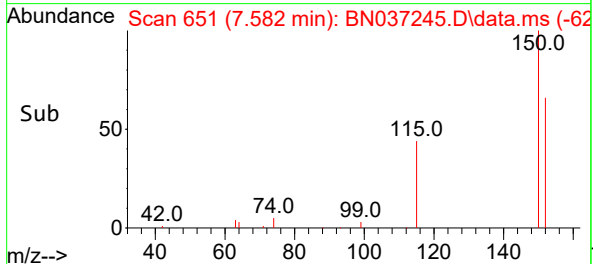


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 611
Delta R.T. 0.007 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

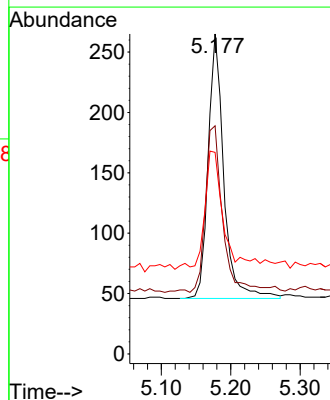
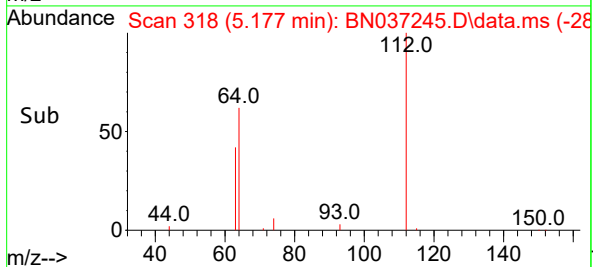
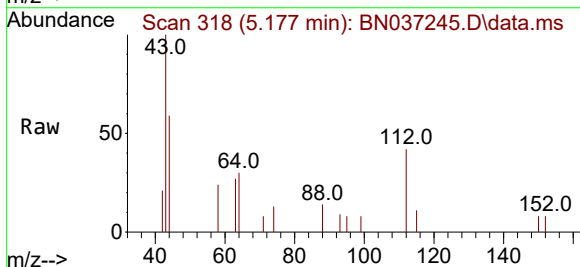


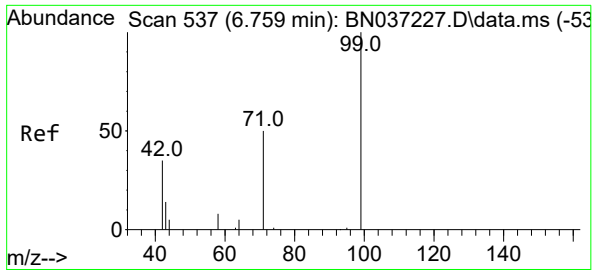
Tgt Ion:152 Resp: 884
Ion Ratio Lower Upper
152 100
150 145.0 125.2 187.8
115 73.3 58.4 87.6



#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.008 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:112 Resp: 341
Ion Ratio Lower Upper
112 100
64 71.6 57.2 85.8
63 59.5 39.8 59.6

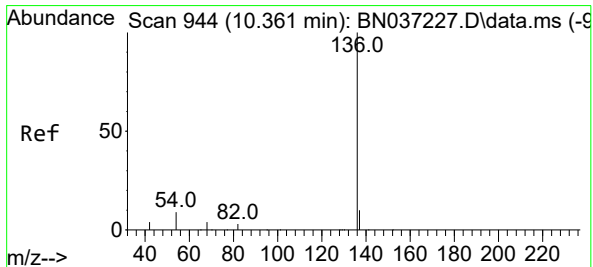
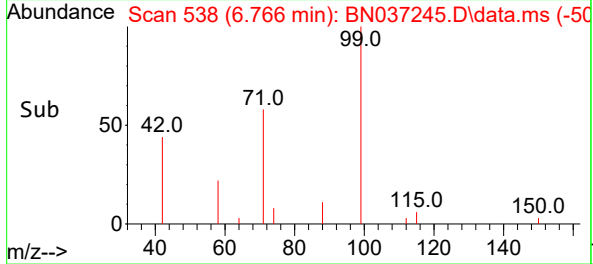
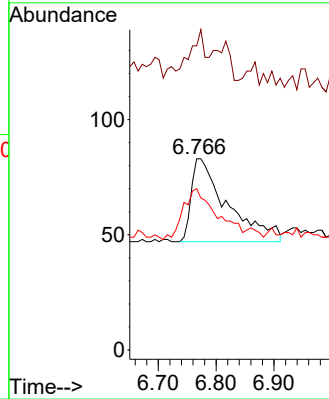
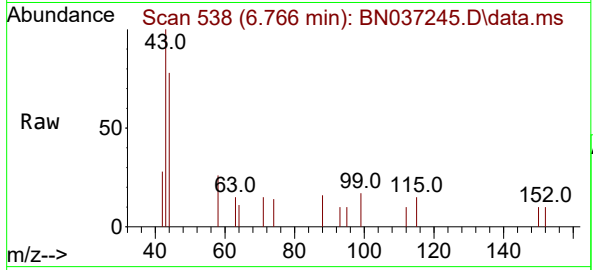




#5
Phenol-d6
Concen: 0.068 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.008 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

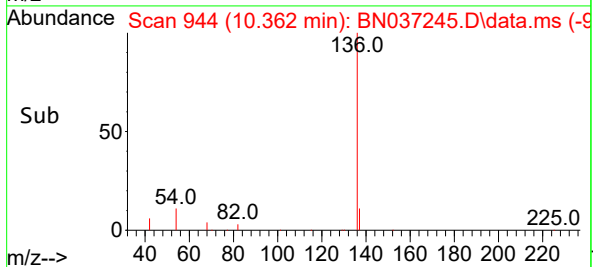
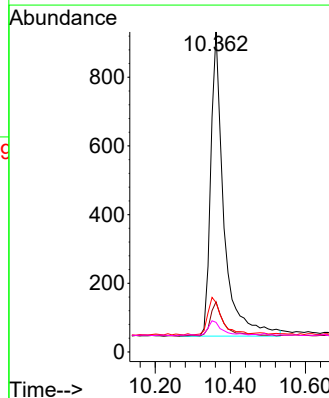
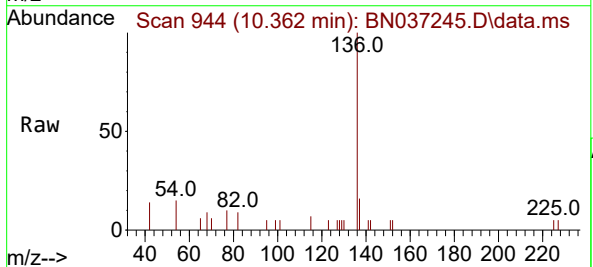
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

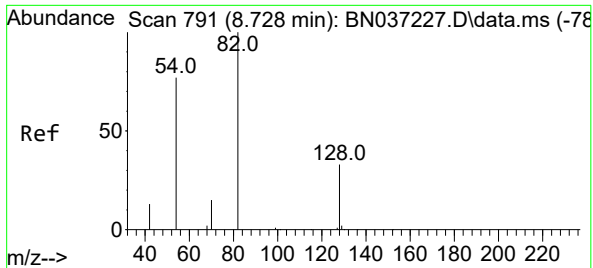
Tgt Ion: 99 Resp: 156
Ion Ratio Lower Upper
99 100
42 17.9 36.2 54.4#
71 57.7 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion: 136 Resp: 2161
Ion Ratio Lower Upper
136 100
137 15.7 10.6 15.8
54 15.5 9.2 13.8#
68 9.2 5.4 8.0#

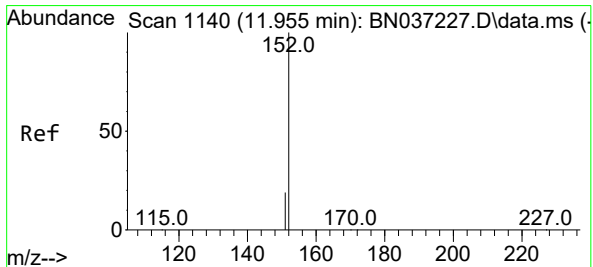
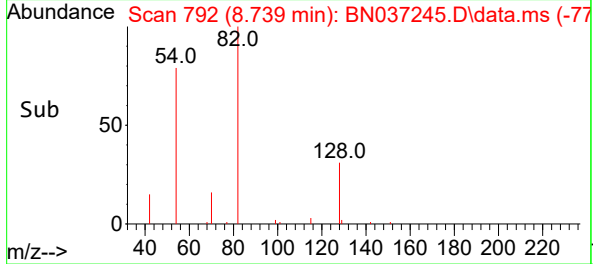
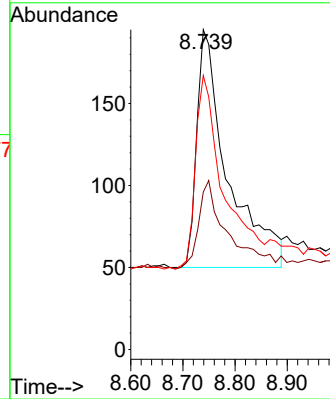
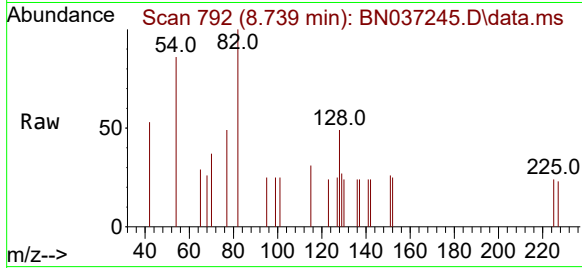




#8
Nitrobenzene-d5
Concen: 0.279 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

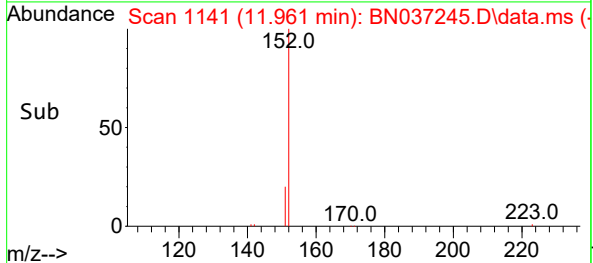
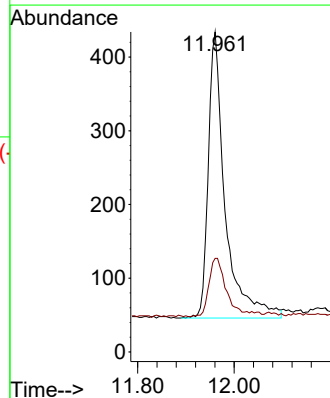
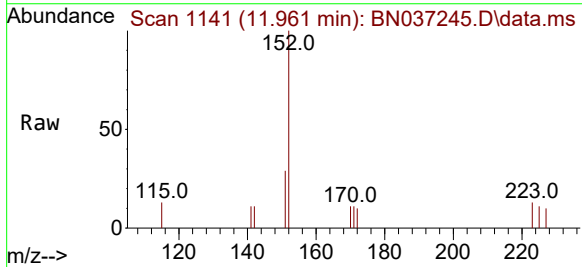
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

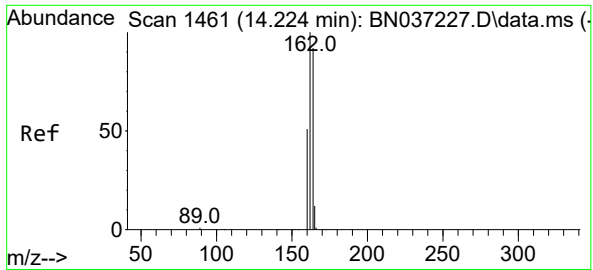
Tgt Ion: 82 Resp: 596
Ion Ratio Lower Upper
82 100
128 49.2 31.2 46.8#
54 85.6 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.325 ng
RT: 11.961 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion: 152 Resp: 942
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9

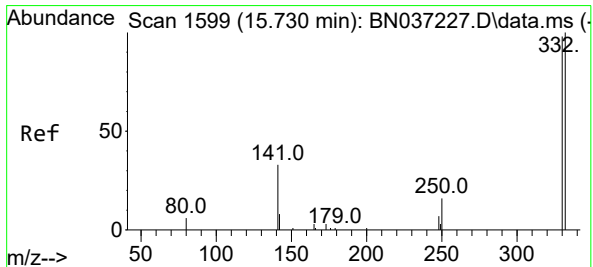
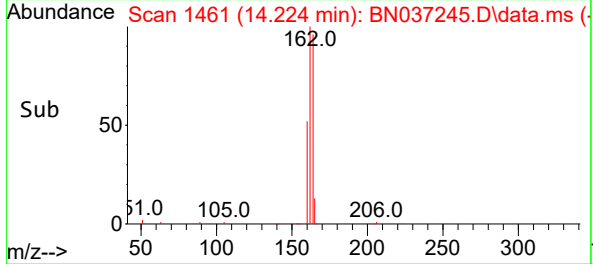
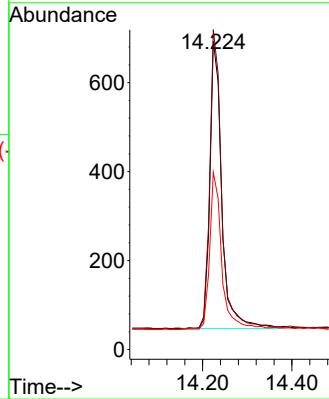
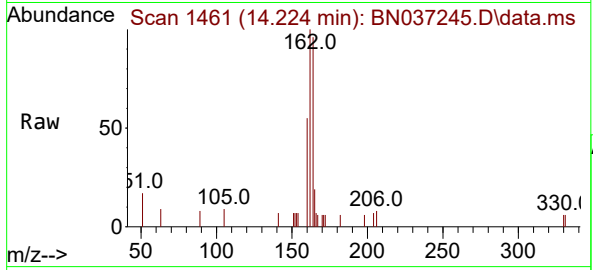




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

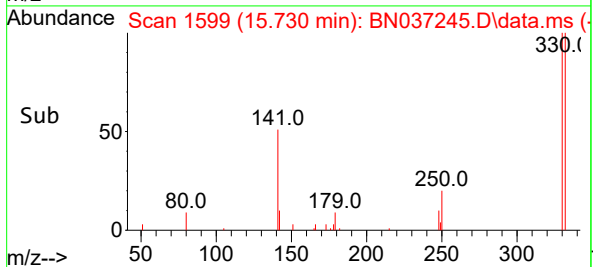
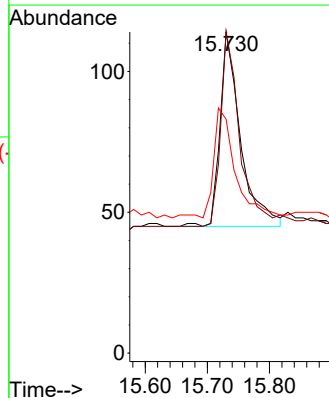
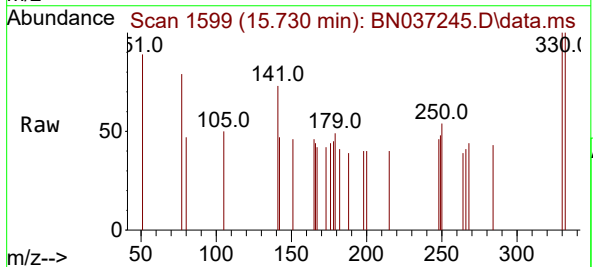
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

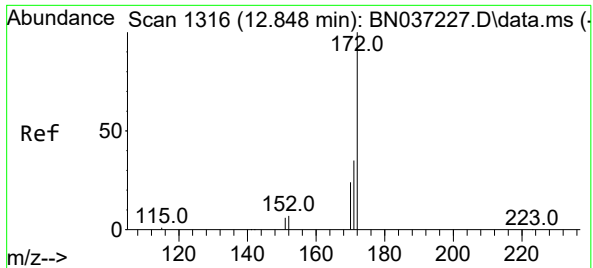
Tgt Ion:164 Resp: 1194
Ion Ratio Lower Upper
164 100
162 103.8 86.7 130.1
160 57.4 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.319 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:330 Resp: 158
Ion Ratio Lower Upper
330 100
332 97.5 74.9 112.3
141 60.1 45.1 67.7

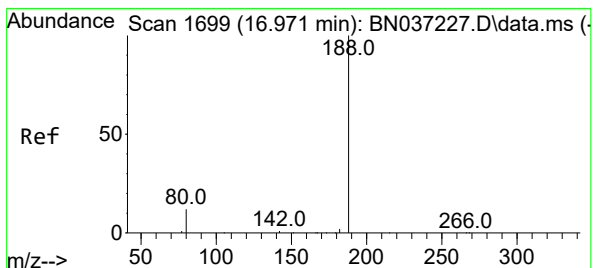
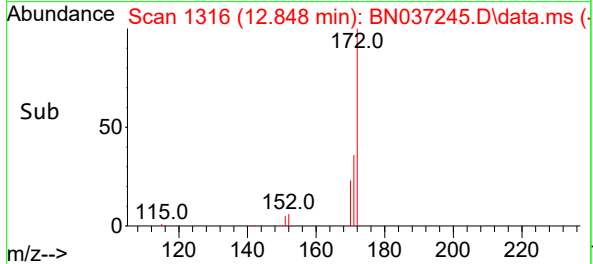
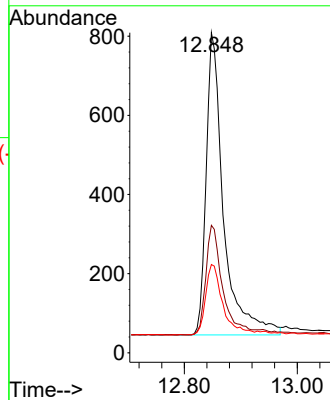
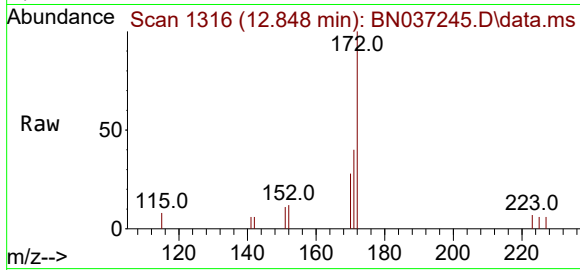




#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.848 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

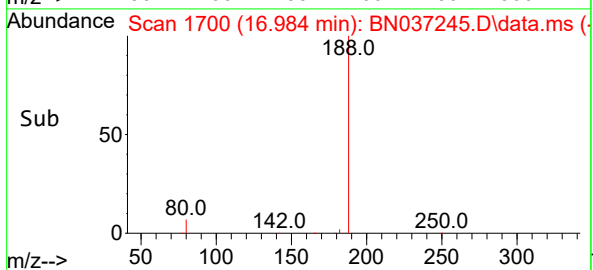
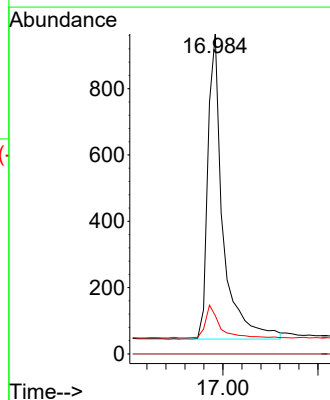
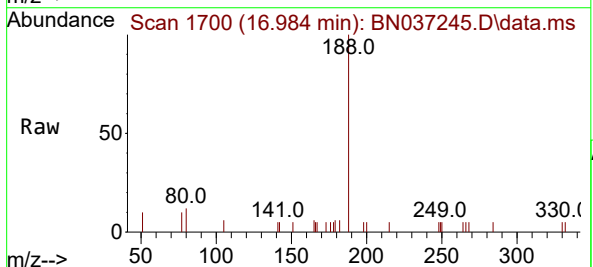
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

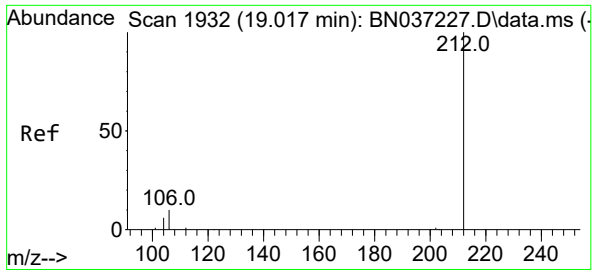
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.8	29.8	44.8
170	27.6	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	12.2	18.4

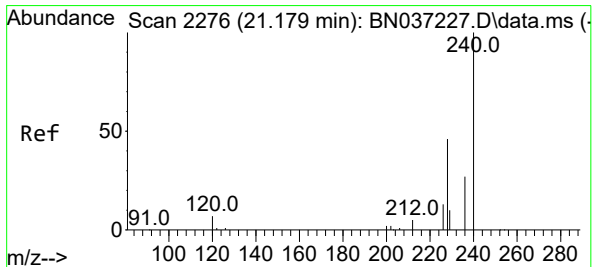
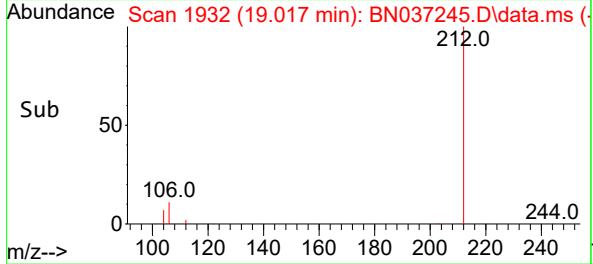
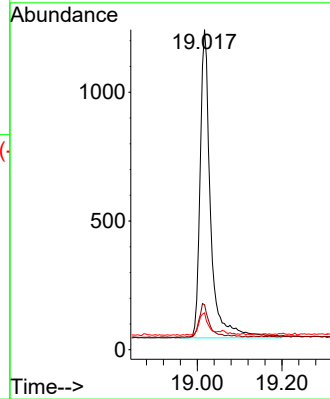
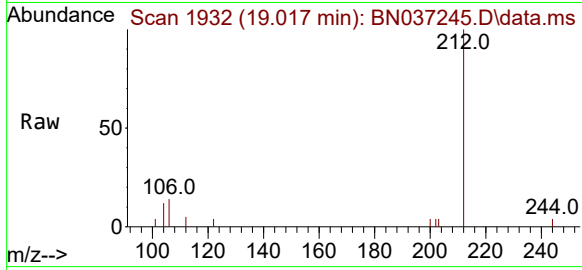




#27
Fluoranthene-d10
Concen: 0.389 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

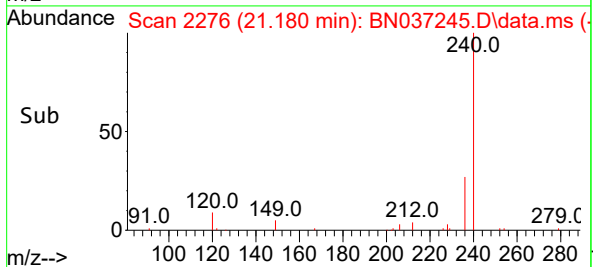
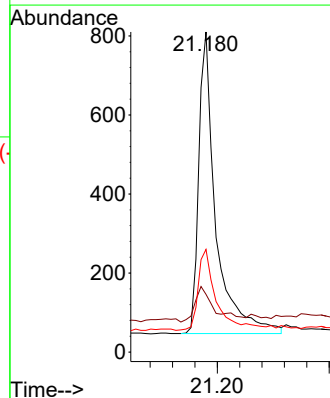
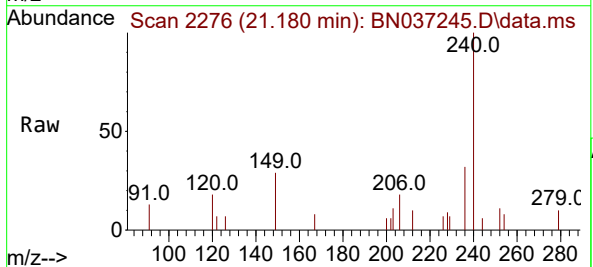
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

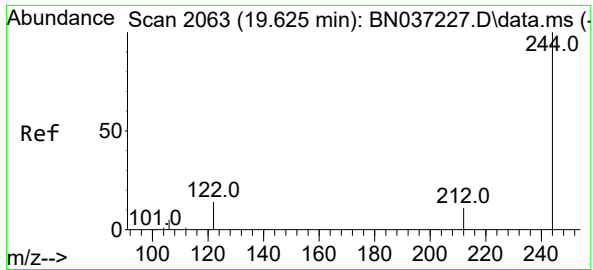
Tgt Ion:212 Resp: 2058
Ion Ratio Lower Upper
212 100
106 10.3 9.3 13.9
104 6.1 5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:240 Resp: 1612
Ion Ratio Lower Upper
240 100
120 18.0 11.3 16.9
236 32.1 24.4 36.6

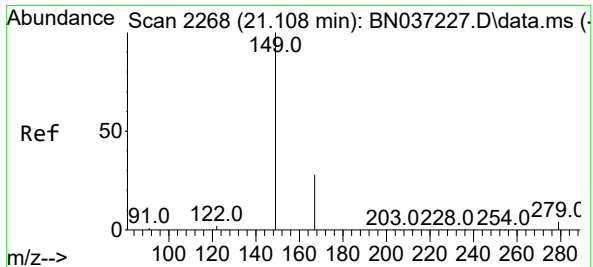
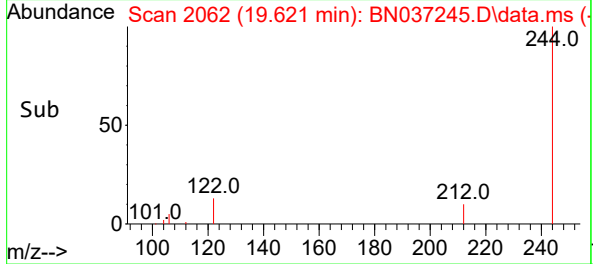
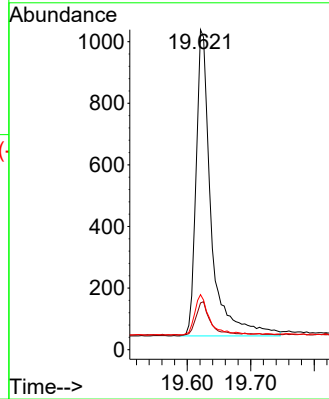
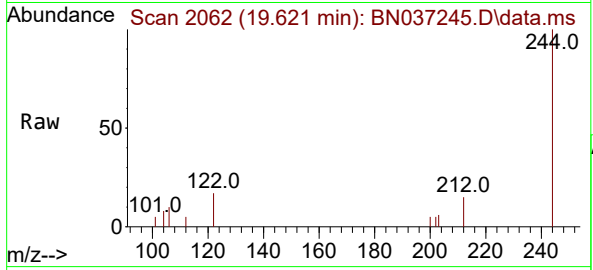




#31
Terphenyl-d14
Concen: 0.448 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

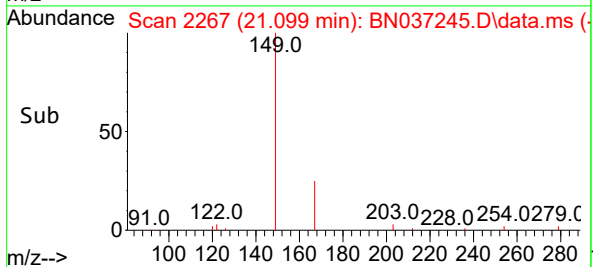
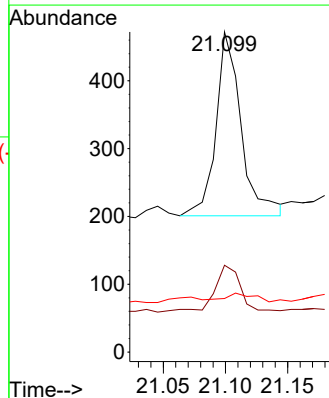
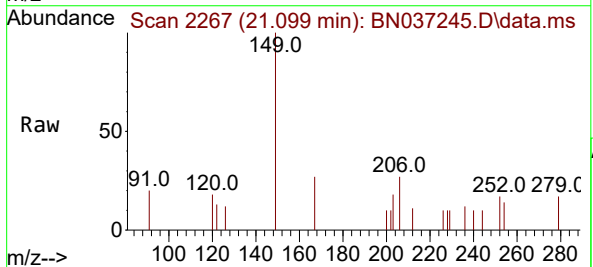
Instrument :
BNA_N
ClientSampleId :
RE117D2-20250609

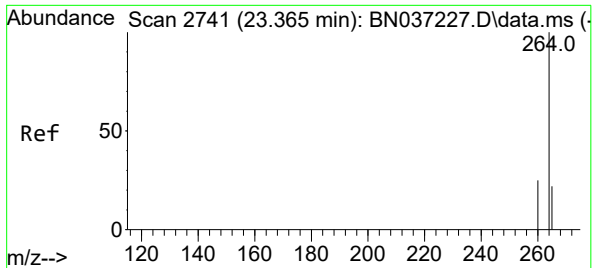
Tgt Ion:244 Resp: 1634
Ion Ratio Lower Upper
244 100
212 14.6 12.2 18.2
122 17.2 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.094 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037245.D
Acq: 14 Jun 2025 02:56

Tgt Ion:149 Resp: 383
Ion Ratio Lower Upper
149 100
167 23.2 21.3 31.9
279 5.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037245.D

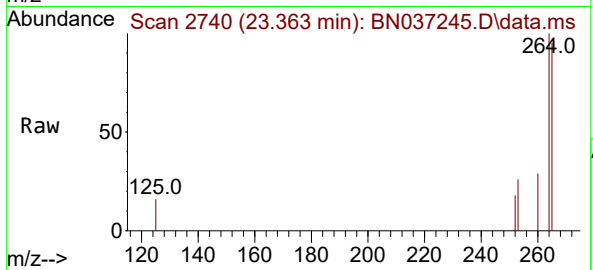
Acq: 14 Jun 2025 02:56

Instrument :

BNA_N

ClientSampleId :

RE117D2-20250609



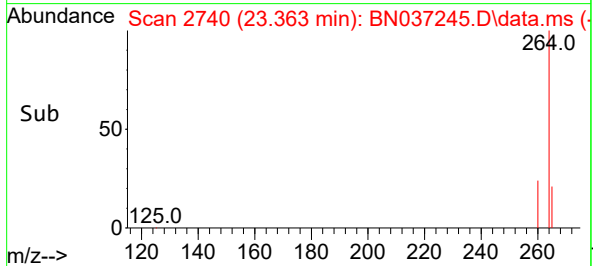
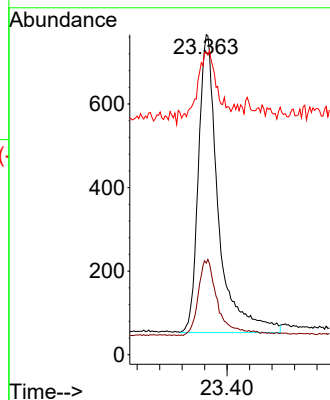
Tgt Ion:264 Resp: 1755

Ion	Ratio	Lower	Upper

264	100		

260	28.6	22.8	34.2

265	94.5	66.4	99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-05	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
BN037248.D	1	06/13/25 08:03	06/14/25 04:45	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30	M	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	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		61%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	959		7.582			
1146-65-2	Naphthalene-d8	2360		10.362			
15067-26-2	Acenaphthene-d10	1260		14.224			
1517-22-2	Phenanthrene-d10	2270		16.984			
1719-03-5	Chrysene-d12	1960		21.171			
1520-96-3	Perylene-d12	2010		23.36			

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\BN061325\
 Data File : BN037248.D
 Acq On : 14 Jun 2025 04:45
 Operator : RC/JU
 Sample : Q2299-05
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609

Quant Time: Jun 14 05:57:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

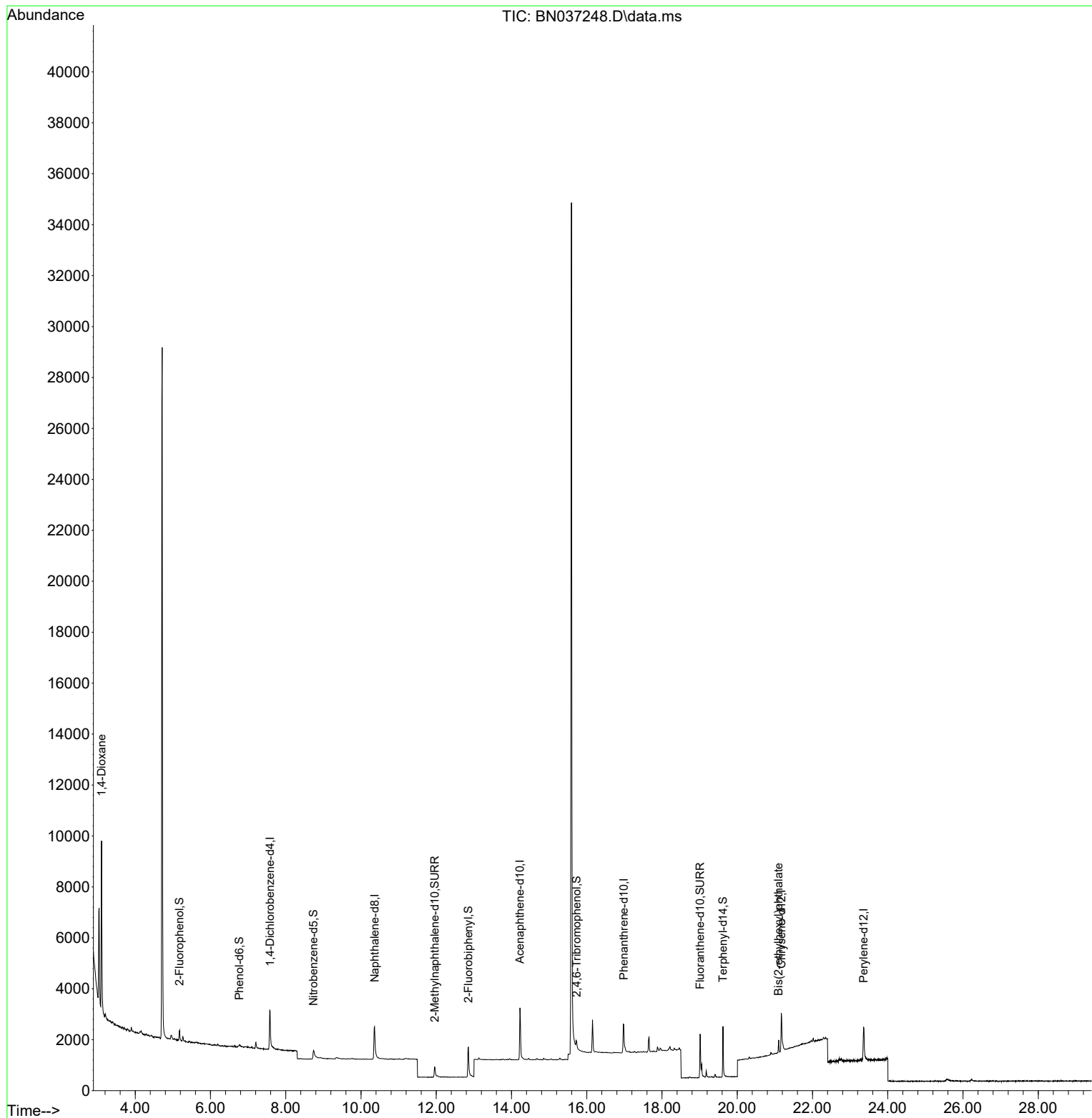
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	959	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2360	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1260	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2273	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1959	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2013	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	296	0.126	ng	0.00
5) Phenol-d6	6.766	99	140	0.056	ng	0.00
8) Nitrobenzene-d5	8.739	82	571	0.245	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	860	0.272	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	166	0.317	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	1418	0.268	ng	0.00
27) Fluoranthene-d10	19.012	212	2337	0.393	ng	0.00
31) Terphenyl-d14	19.621	244	2103	0.475	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	3037	2.308	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	505	0.103	ng	# 94

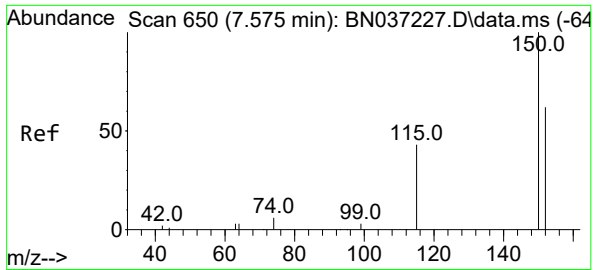
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037248.D
Acq On : 14 Jun 2025 04:45
Operator : RC/JU
Sample : Q2299-05
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

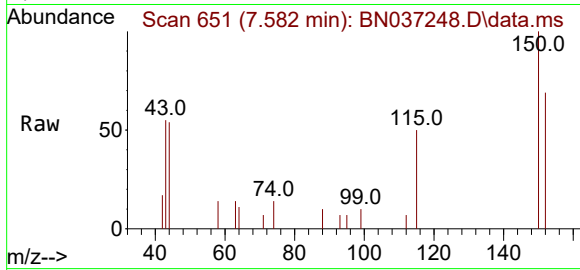
Quant Time: Jun 14 05:57:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



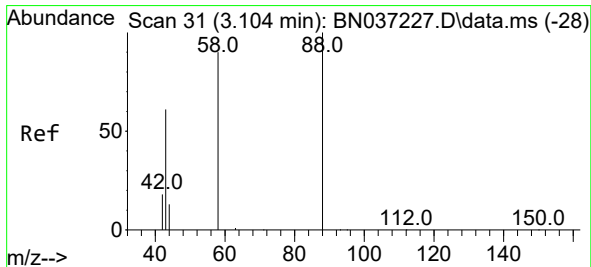
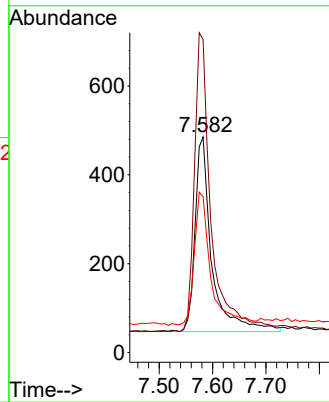
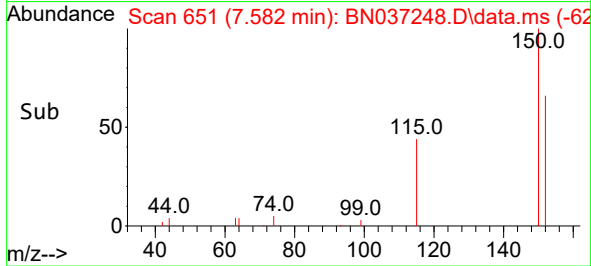


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

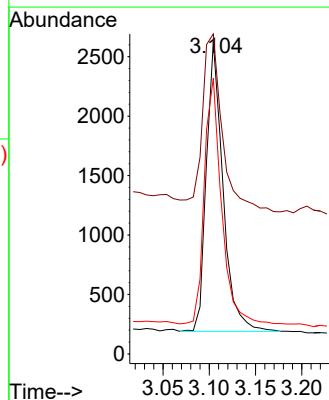
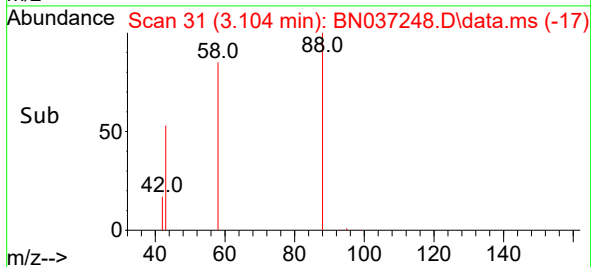
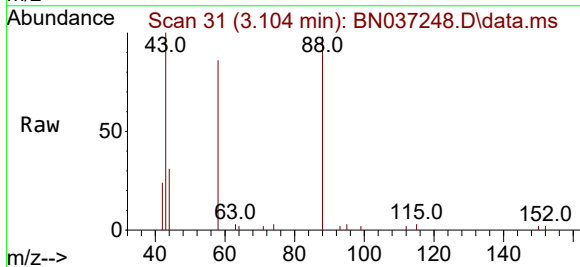


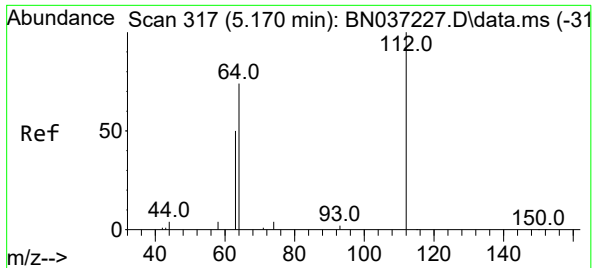
Tgt Ion:152 Resp: 959
Ion Ratio Lower Upper
152 100
150 145.2 125.2 187.8
115 72.4 58.4 87.6



#2
1,4-Dioxane
Concen: 2.308 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion: 88 Resp: 3037
Ion Ratio Lower Upper
88 100
43 75.1 52.6 79.0
58 87.5 73.5 110.3

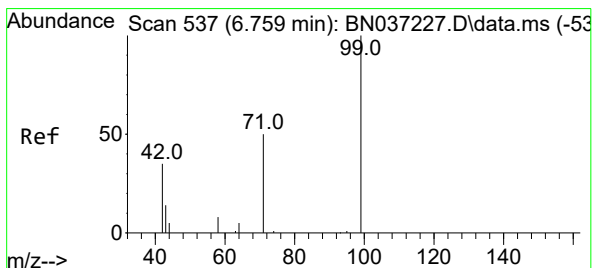
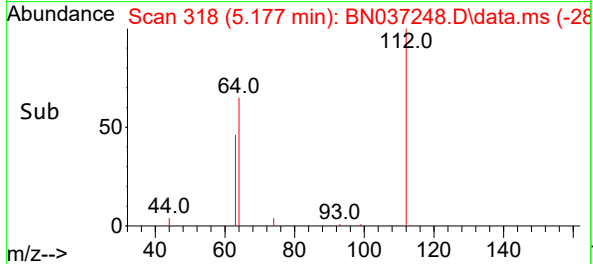
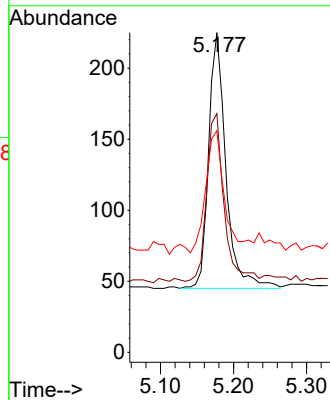
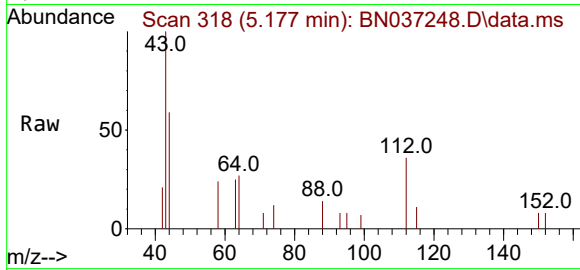




#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

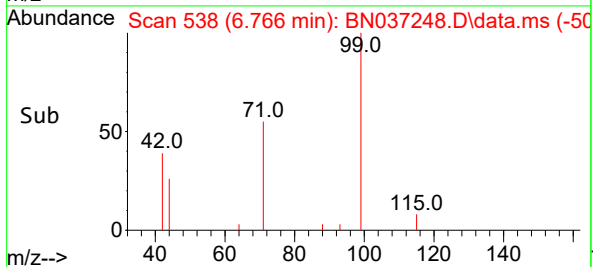
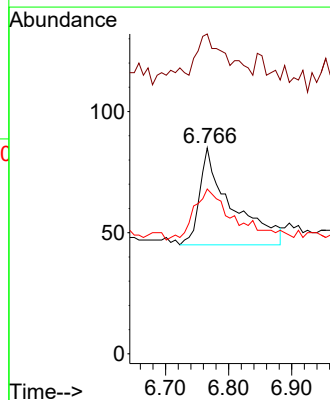
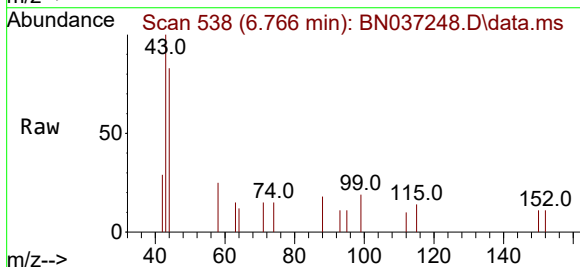
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

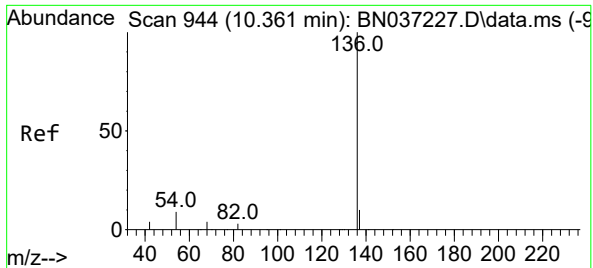
Tgt Ion:112 Resp: 296
Ion Ratio Lower Upper
112 100
64 65.2 57.2 85.8
63 50.7 39.8 59.6



#5
Phenol-d6
Concen: 0.056 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion: 99 Resp: 140
Ion Ratio Lower Upper
99 100
42 39.3 36.2 54.4
71 58.6 42.4 63.6

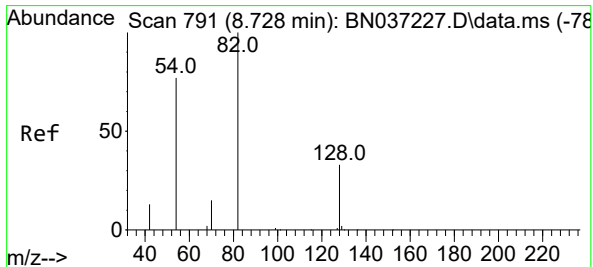
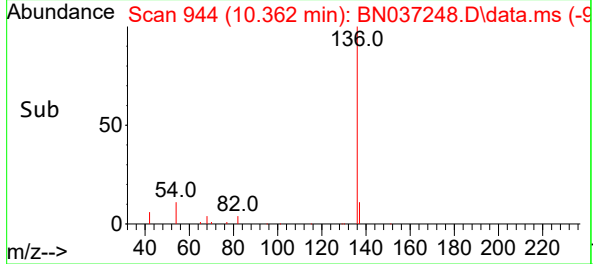
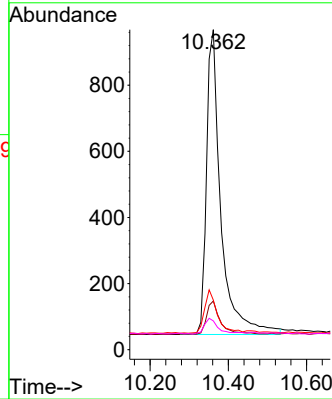
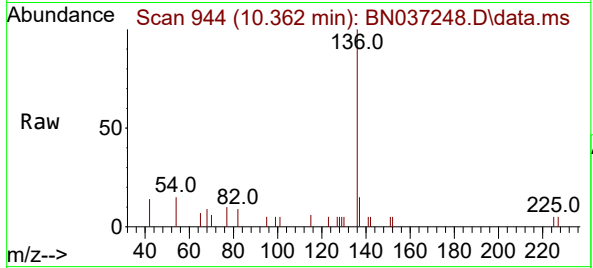




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

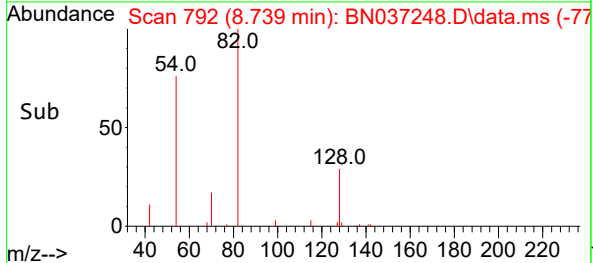
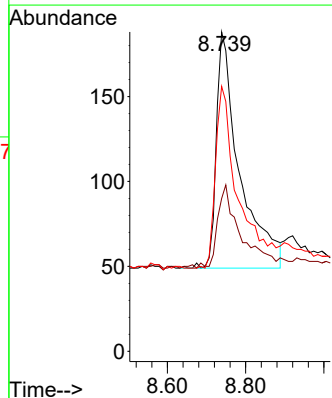
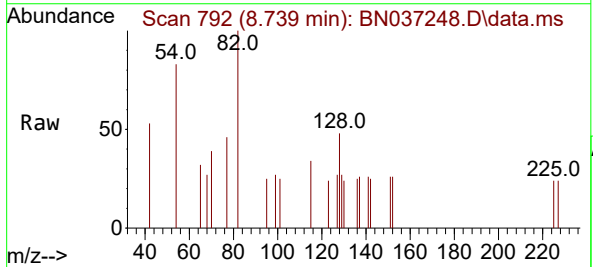
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

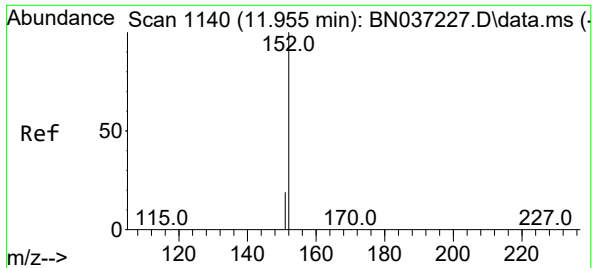
Tgt Ion:	136	Resp:	2360
Ion	Ratio	Lower	Upper
136	100		
137	15.2	10.6	15.8
54	15.5	9.2	13.8#
68	9.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:	82	Resp:	571
Ion	Ratio	Lower	Upper
82	100		
128	47.9	31.2	46.8#
54	83.0	63.3	94.9

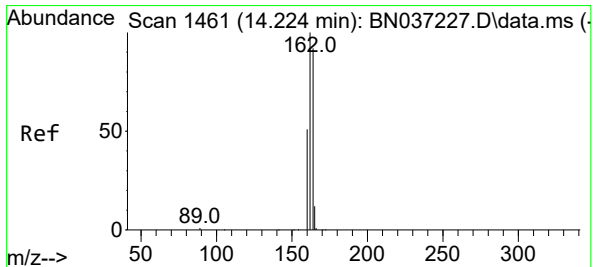
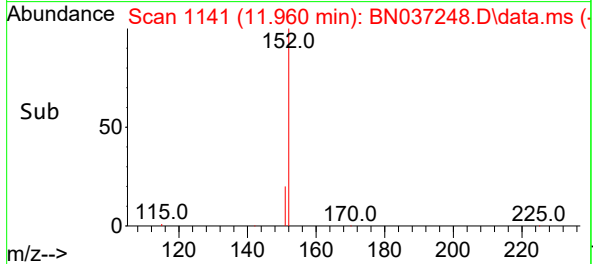
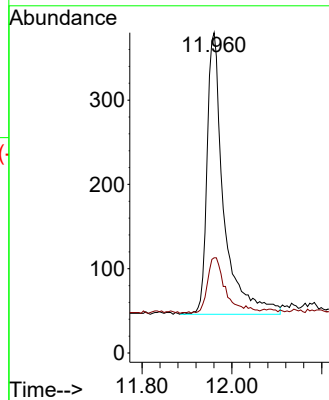
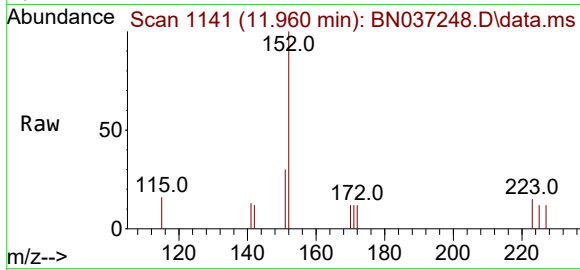




#11
2-Methylnaphthalene-d10
Concen: 0.272 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

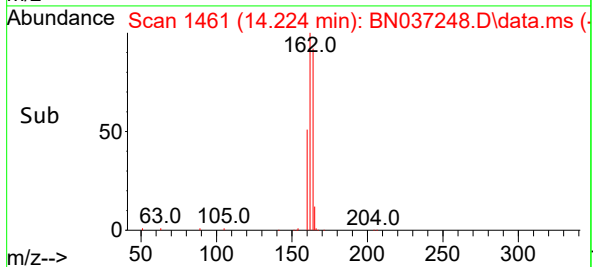
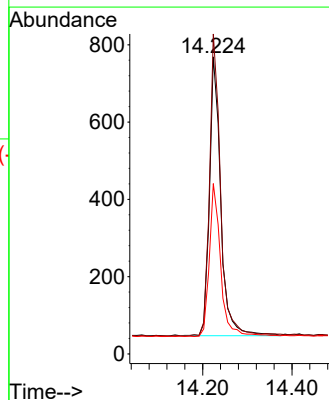
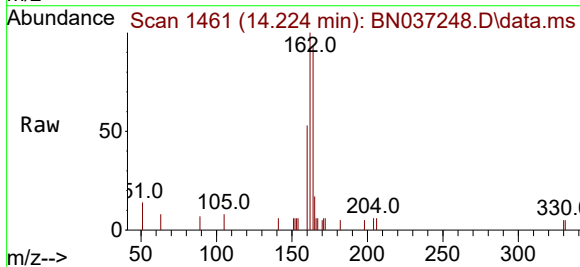
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

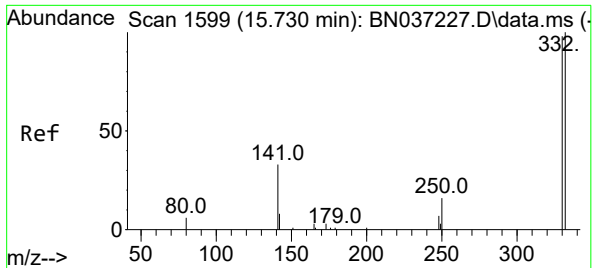
Tgt Ion:152 Resp: 860
Ion Ratio Lower Upper
152 100
151 20.6 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:164 Resp: 1260
Ion Ratio Lower Upper
164 100
162 107.7 86.7 130.1
160 57.3 45.8 68.6

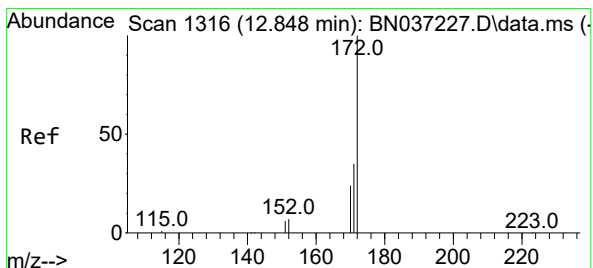
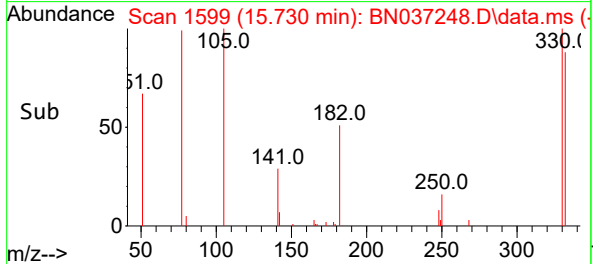
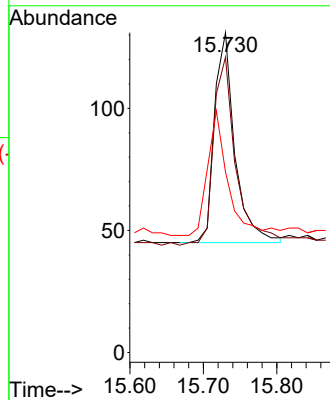
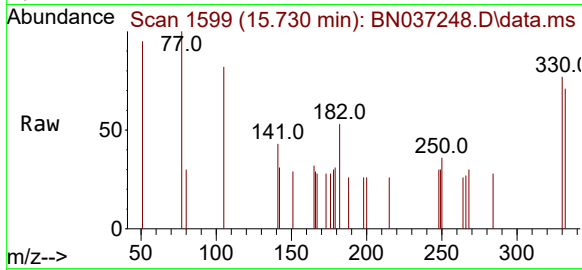




#14
2,4,6-Tribromophenol
Concen: 0.317 ng
RT: 15.730 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

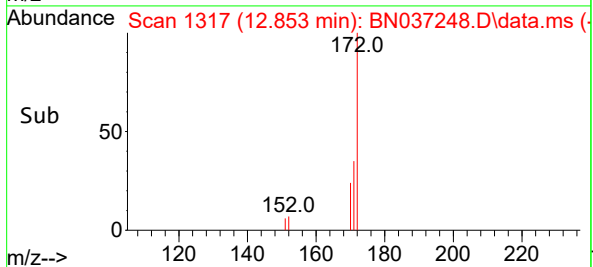
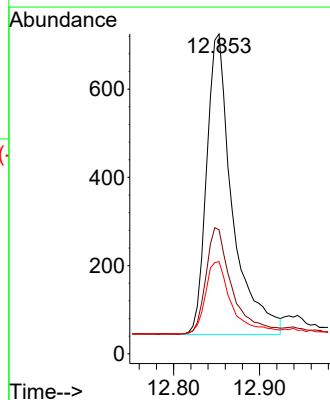
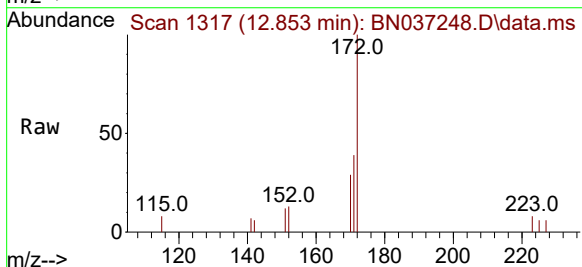
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

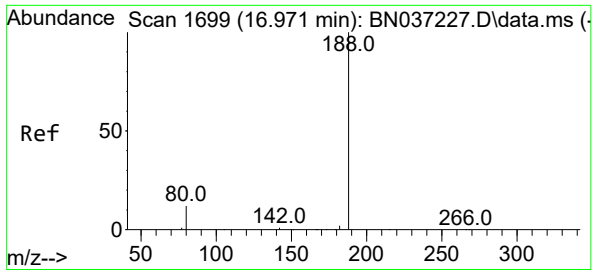
Tgt Ion:330 Resp: 166
Ion Ratio Lower Upper
330 100
332 104.8 74.9 112.3
141 59.6 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.268 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:172 Resp: 1418
Ion Ratio Lower Upper
172 100
171 38.8 29.8 44.8
170 28.8 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN037248.D

Acq: 14 Jun 2025 04:45

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609

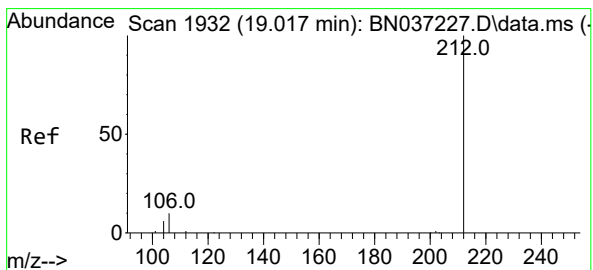
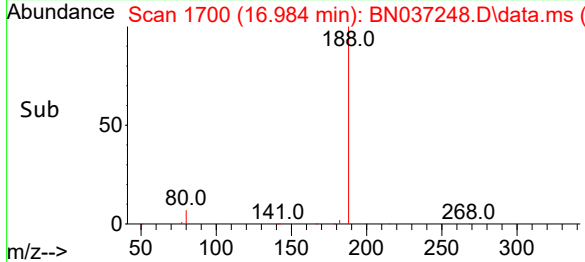
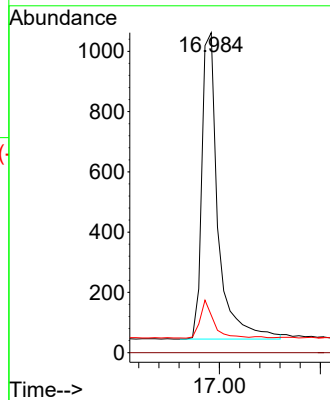
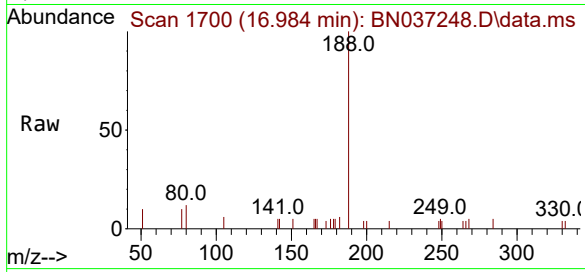
Tgt Ion:188 Resp: 2273

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 12.2 18.4#



#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037248.D

Acq: 14 Jun 2025 04:45

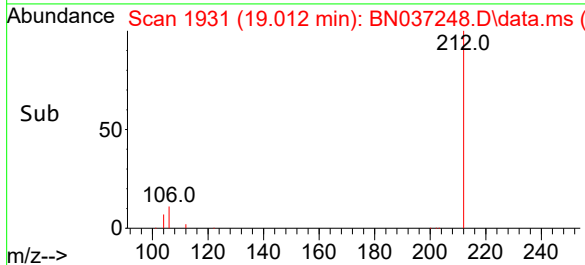
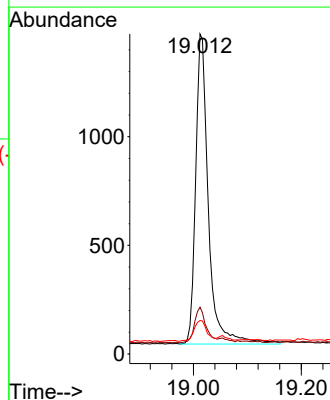
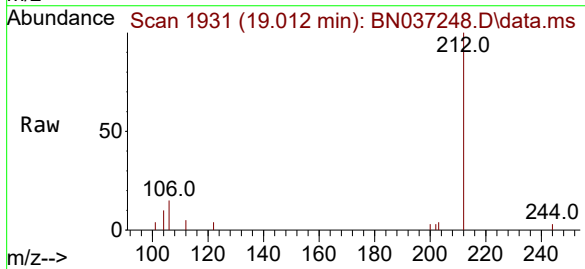
Tgt Ion:212 Resp: 2337

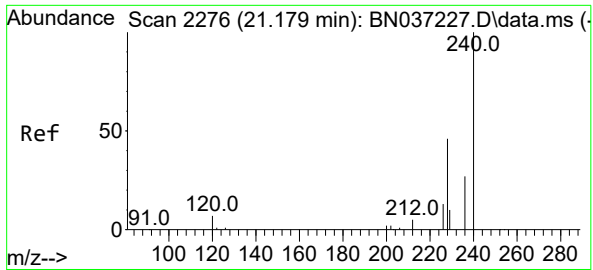
Ion Ratio Lower Upper

212 100

106 10.3 9.3 13.9

104 6.7 5.7 8.5

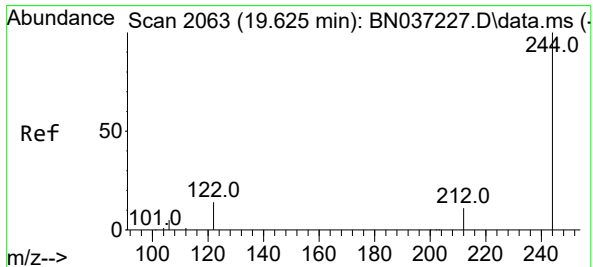
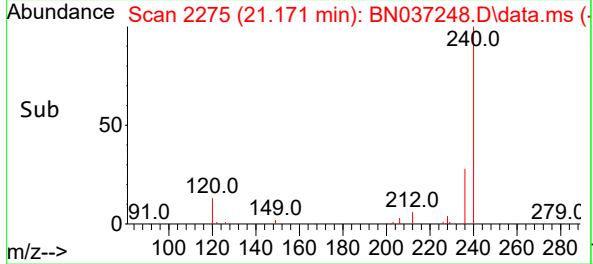
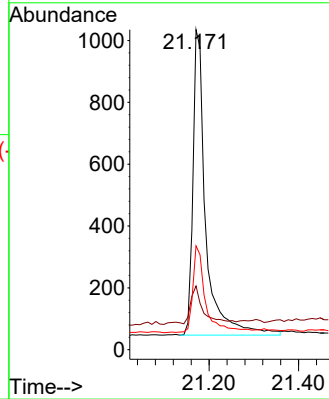
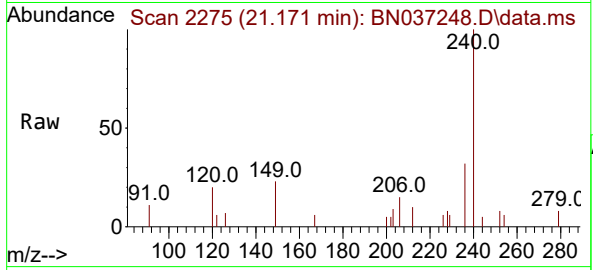




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

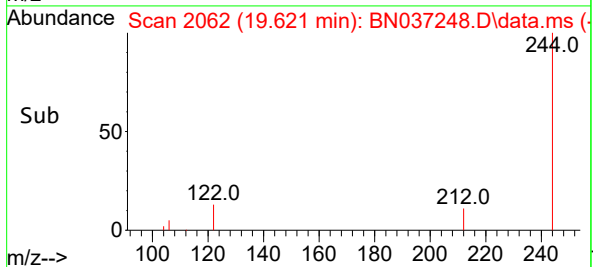
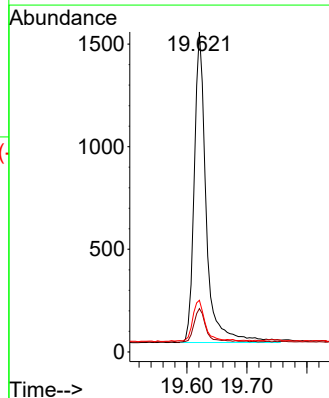
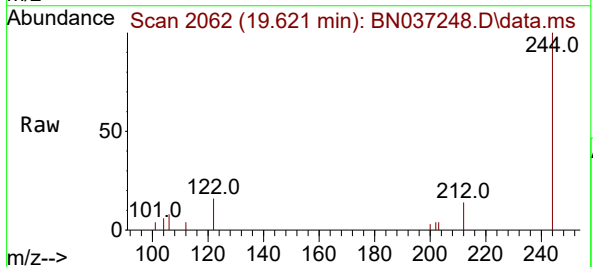
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

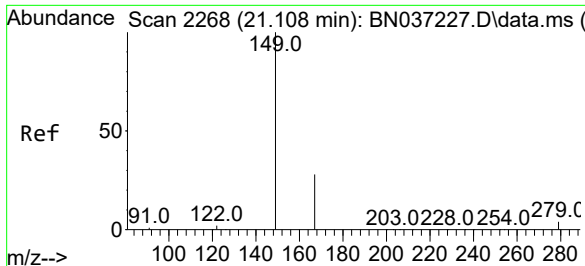
Tgt Ion:240 Resp: 1959
Ion Ratio Lower Upper
240 100
120 19.9 11.3 16.9#
236 32.5 24.4 36.6



#31
Terphenyl-d14
Concen: 0.475 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:244 Resp: 2103
Ion Ratio Lower Upper
244 100
212 13.5 12.2 18.2
122 16.2 14.3 21.5

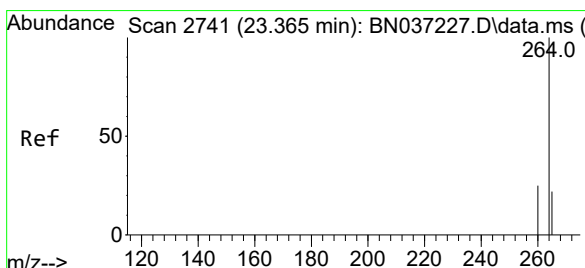
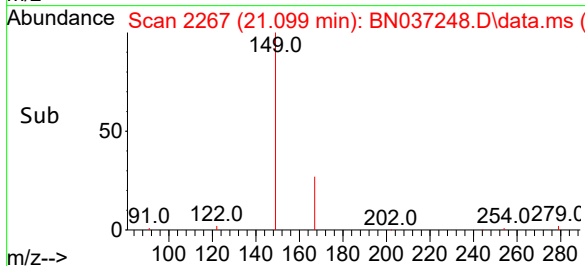
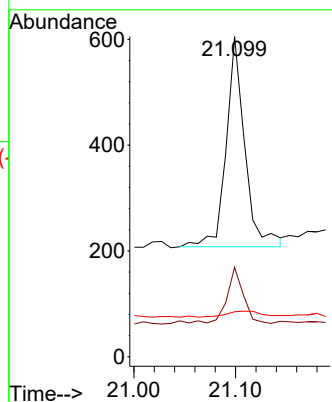
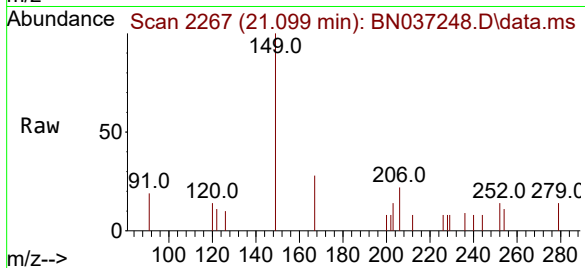




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 21.099 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

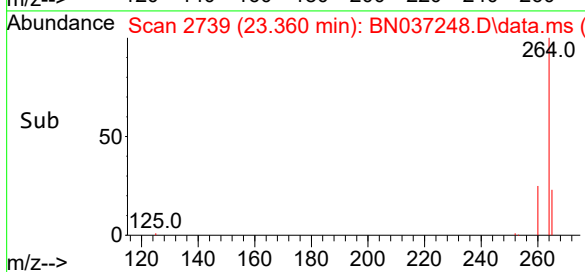
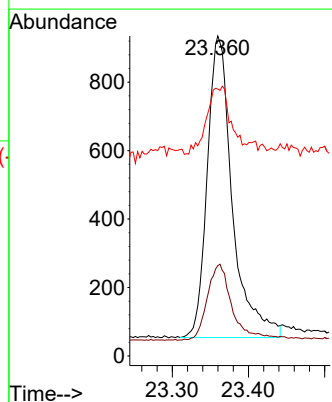
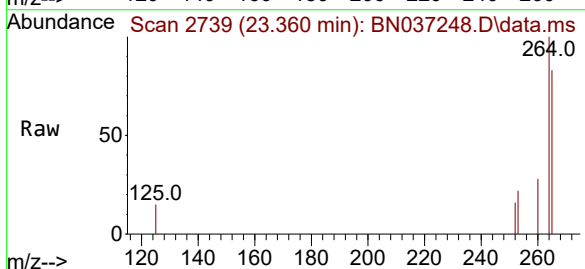
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609

Tgt Ion:149 Resp: 505
Ion Ratio Lower Upper
149 100
167 23.4 21.3 31.9
279 5.3 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037248.D
Acq: 14 Jun 2025 04:45

Tgt Ion:264 Resp: 2013
Ion Ratio Lower Upper
264 100
260 28.2 22.8 34.2
265 83.4 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D2-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-06	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
BN037249.D	1	06/13/25 08:03	06/14/25 05:21	PB168458

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	0.25		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.23		55 - 111		57%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	966	7.575				
1146-65-2	Naphthalene-d8	2320	10.362				
15067-26-2	Acenaphthene-d10	1240	14.224				
1517-22-2	Phenanthrene-d10	2180	16.984				
1719-03-5	Chrysene-d12	1690	21.171				
1520-96-3	Perylene-d12	1750	23.363				

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\BN061325\
 Data File : BN037249.D
 Acq On : 14 Jun 2025 05:21
 Operator : RC/JU
 Sample : Q2299-06
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D2-20250609

Quant Time: Jun 14 05:57:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

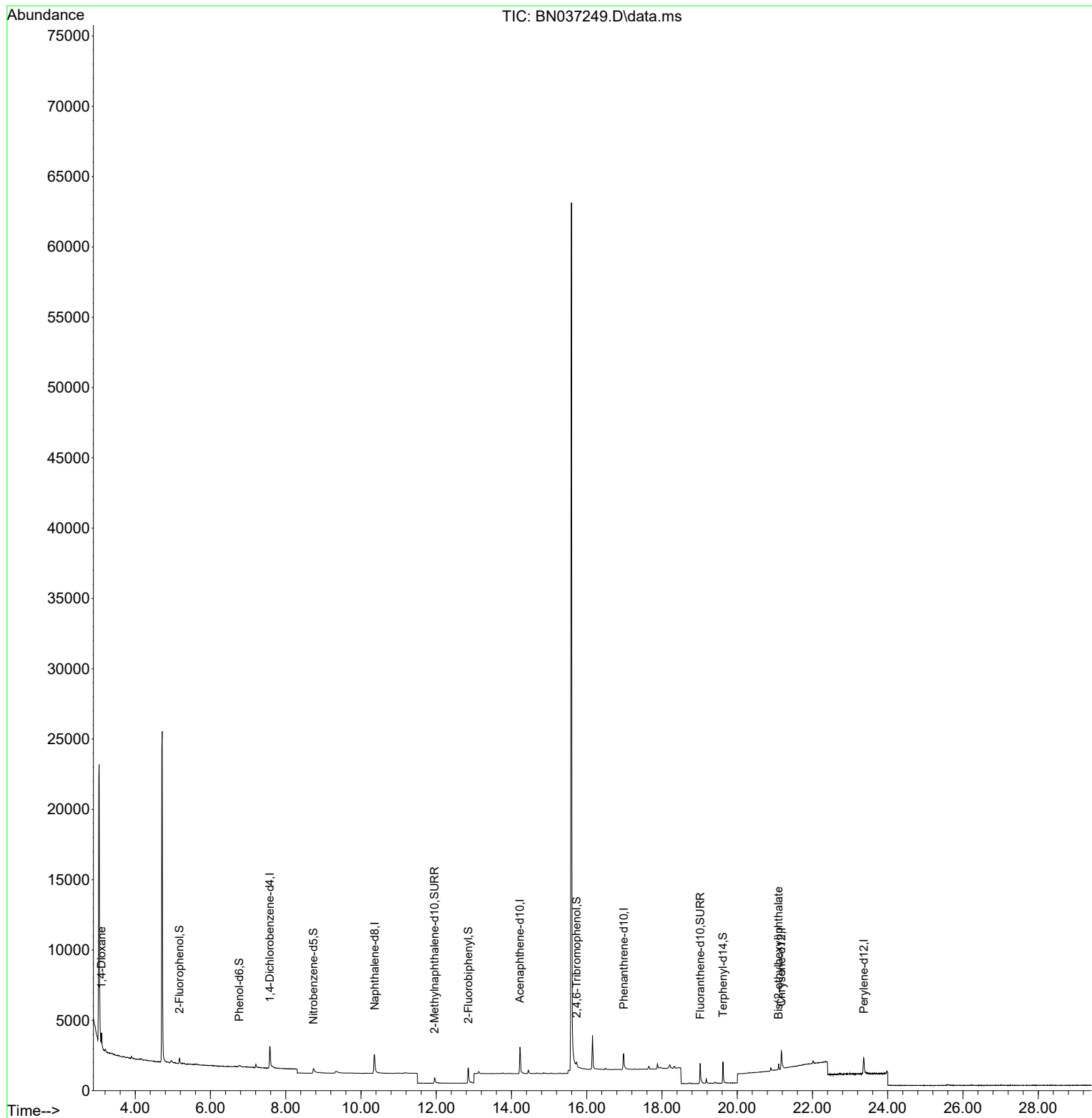
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	966	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2320	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1237	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2179	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1692	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1750	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	274	0.115	ng	0.00
5) Phenol-d6	6.766	99	142	0.057	ng	0.00
8) Nitrobenzene-d5	8.739	82	523	0.228	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	763	0.245	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	162	0.315	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	1316	0.253	ng	0.00
27) Fluoranthene-d10	19.017	212	1914	0.336	ng	0.00
31) Terphenyl-d14	19.621	244	1705	0.446	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	485	0.366	ng	# 68
34) Bis(2-ethylhexyl)phtha...	21.099	149	356	0.084	ng	# 92

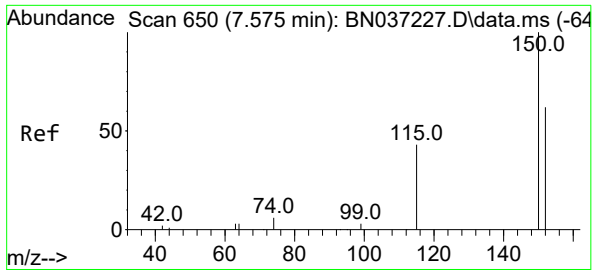
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037249.D
Acq On : 14 Jun 2025 05:21
Operator : RC/JU
Sample : Q2299-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

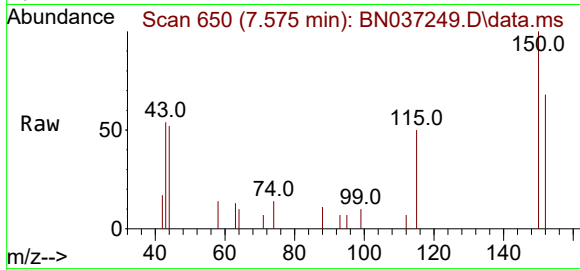
Quant Time: Jun 14 05:57:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



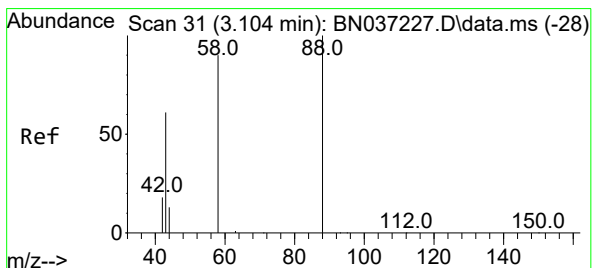
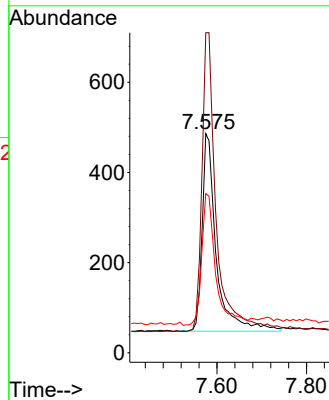
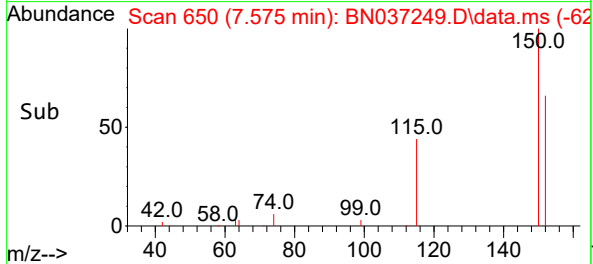


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

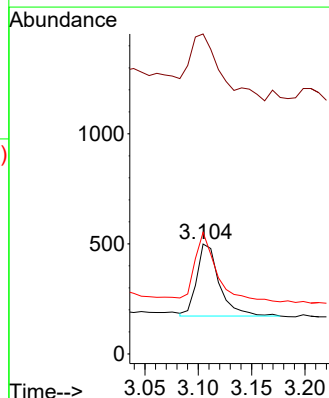
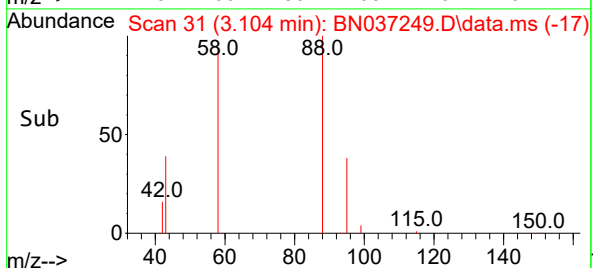
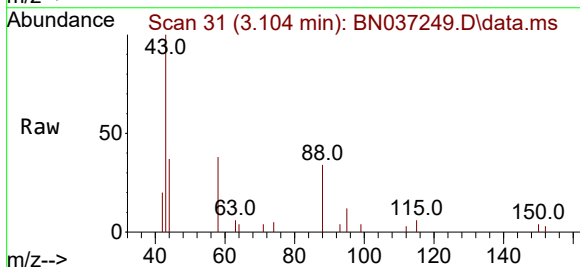


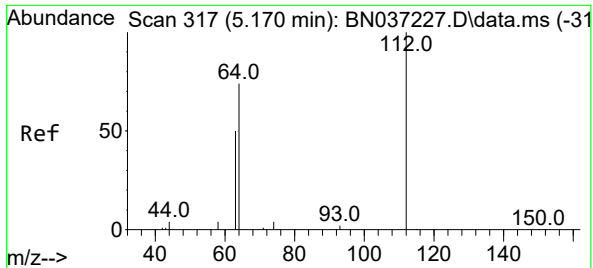
Tgt Ion:152 Resp: 966
Ion Ratio Lower Upper
152 100
150 146.1 125.2 187.8
115 72.6 58.4 87.6



#2
1,4-Dioxane
Concen: 0.366 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion: 88 Resp: 485
Ion Ratio Lower Upper
88 100
43 125.8 52.6 79.0#
58 92.0 73.5 110.3

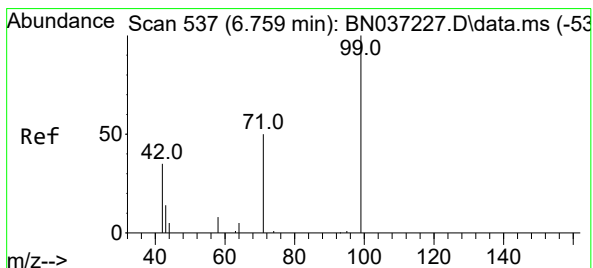
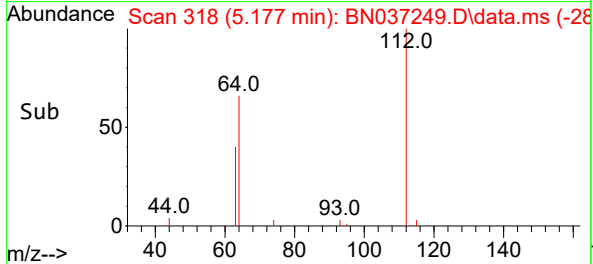
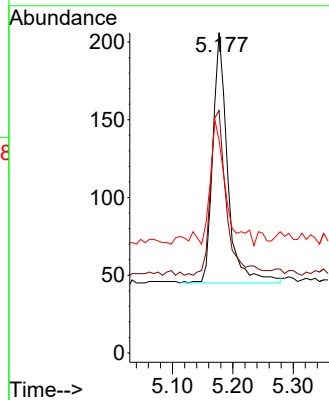
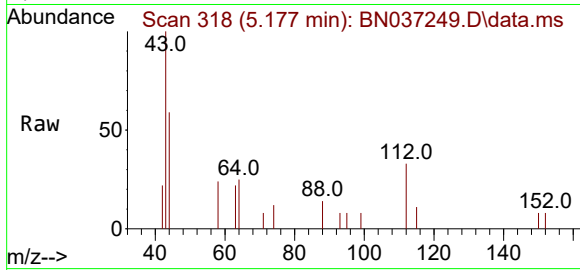




#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

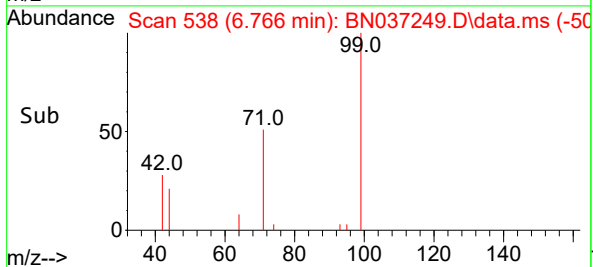
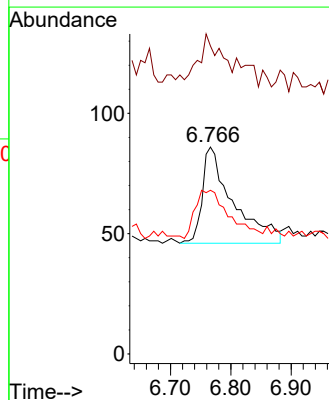
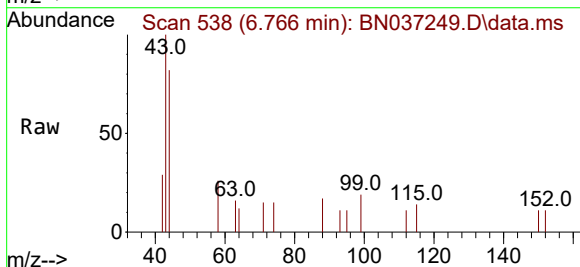
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

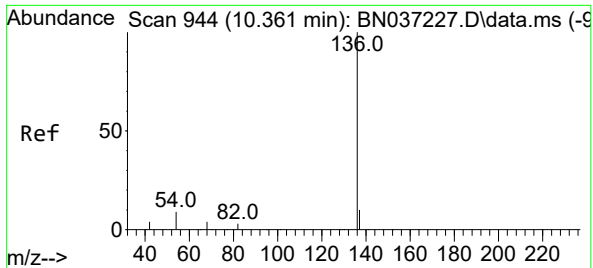
Tgt Ion:112 Resp: 274
Ion Ratio Lower Upper
112 100
64 70.8 57.2 85.8
63 51.1 39.8 59.6



#5
Phenol-d6
Concen: 0.057 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion: 99 Resp: 142
Ion Ratio Lower Upper
99 100
42 30.3 36.2 54.4#
71 55.6 42.4 63.6

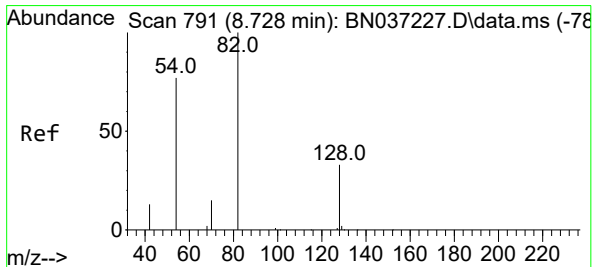
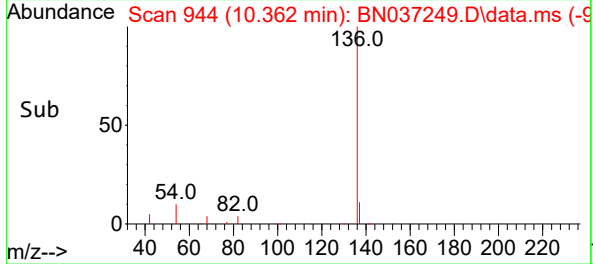
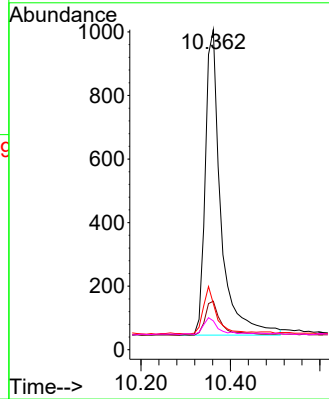
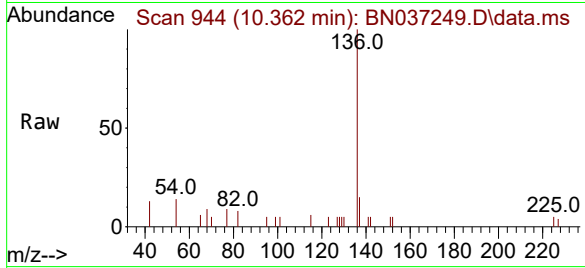




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

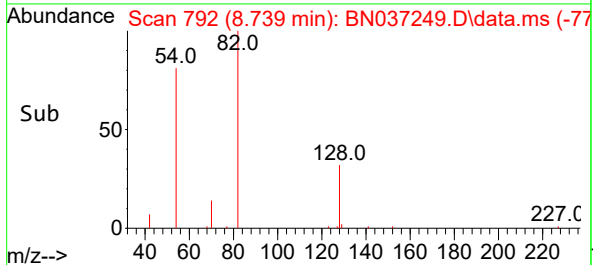
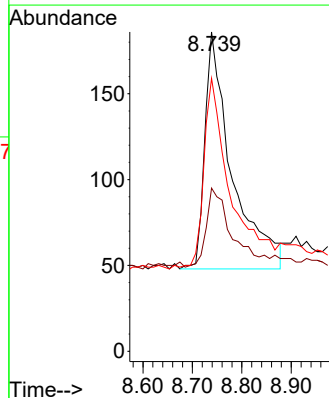
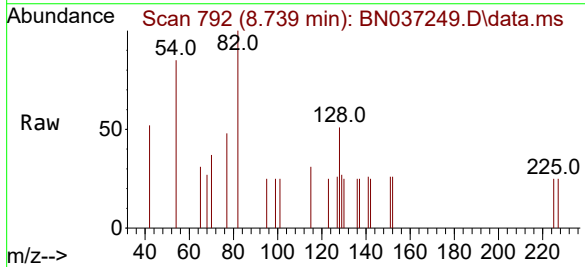
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

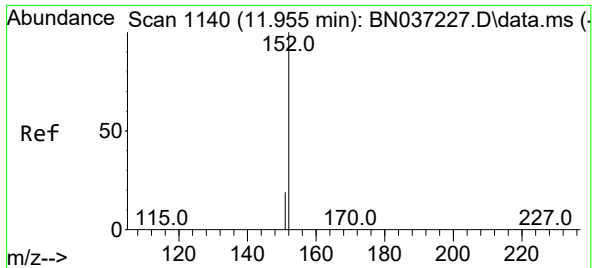
Tgt Ion:	136	Resp:	2320
Ion	Ratio	Lower	Upper
136	100		
137	15.2	10.6	15.8
54	14.4	9.2	13.8#
68	9.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.228 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:	82	Resp:	523
Ion	Ratio	Lower	Upper
82	100		
128	51.1	31.2	46.8#
54	85.5	63.3	94.9

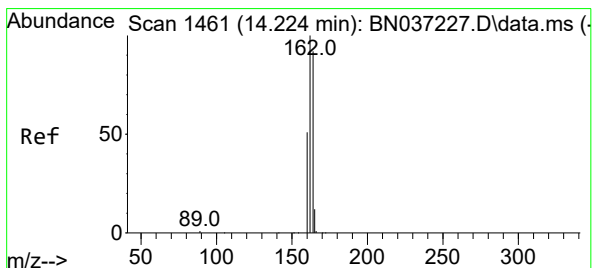
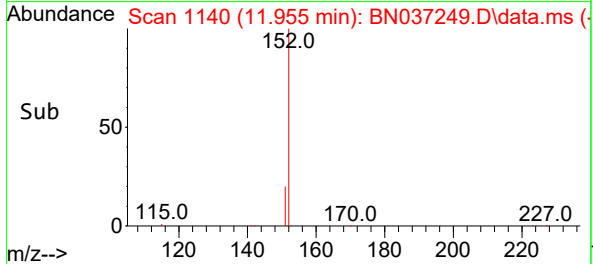
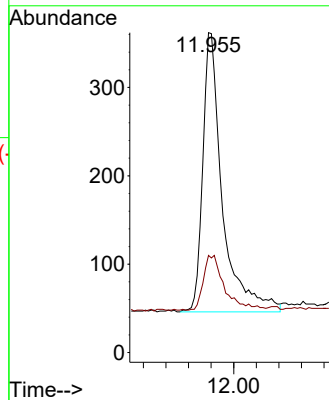
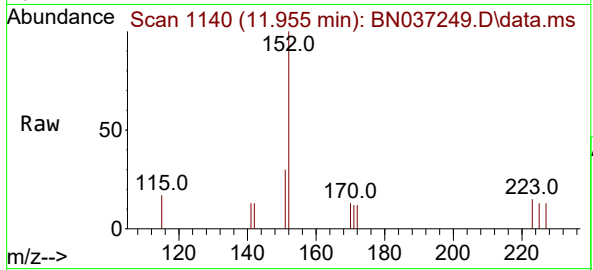




#11
2-Methylnaphthalene-d10
Concen: 0.245 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

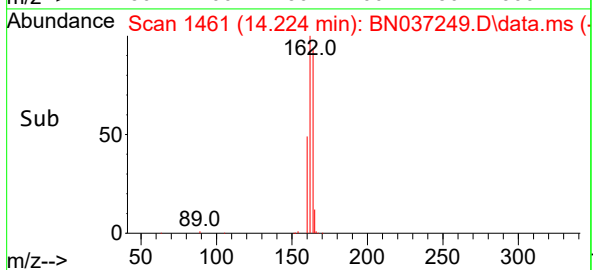
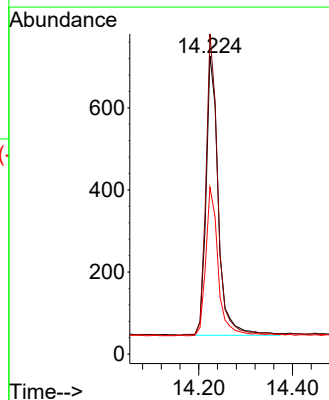
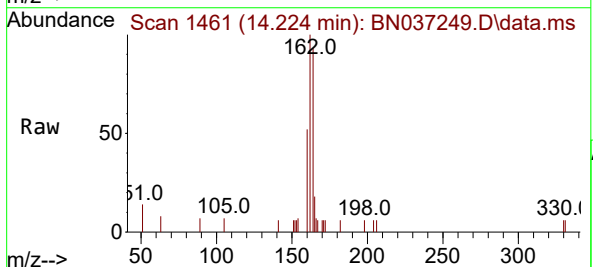
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

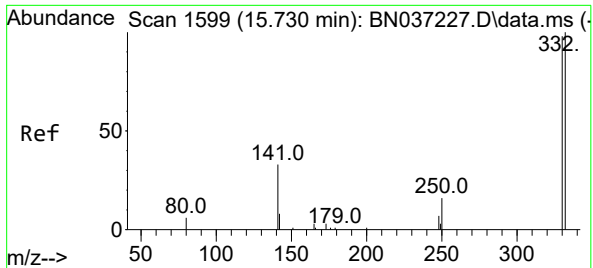
Tgt Ion:152 Resp: 763
Ion Ratio Lower Upper
152 100
151 21.0 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:164 Resp: 1237
Ion Ratio Lower Upper
164 100
162 107.3 86.7 130.1
160 55.8 45.8 68.6

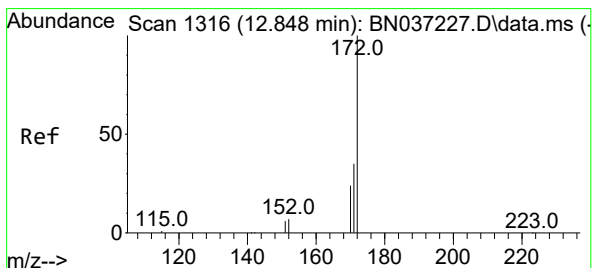
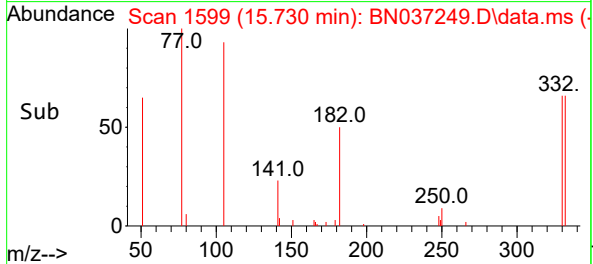
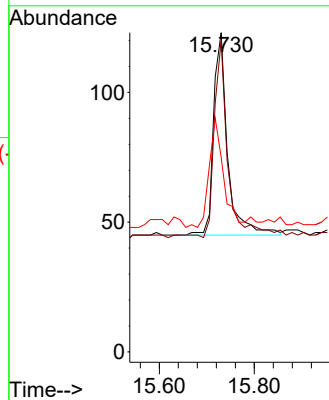
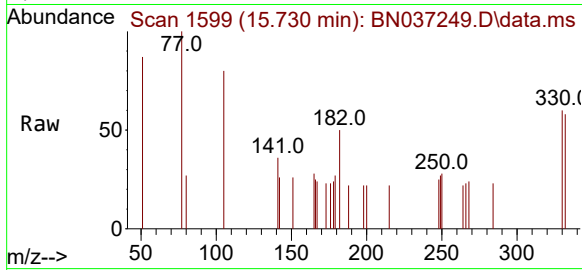




#14
2,4,6-Tribromophenol
Concen: 0.315 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

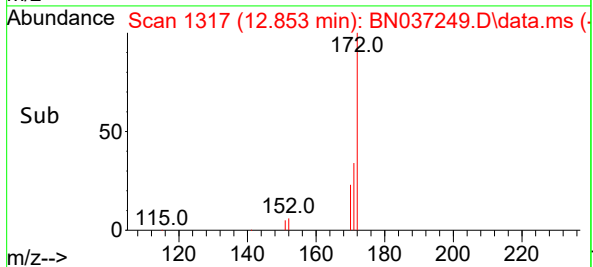
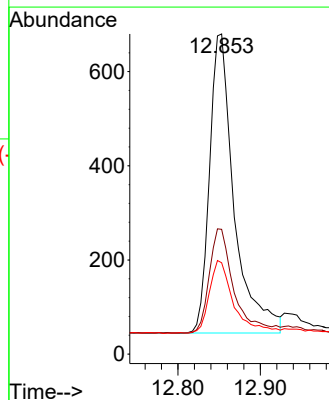
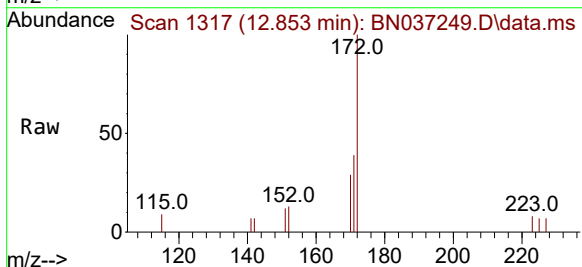
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

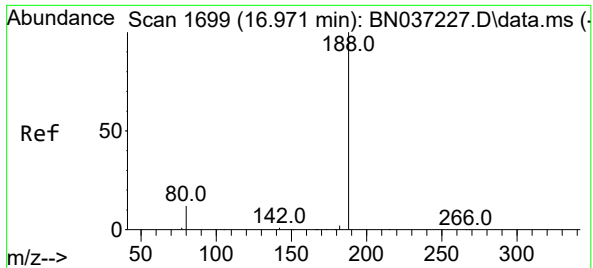
Tgt Ion	330	Resp	162
Ion Ratio	100		
Lower			
Upper			
332	88.3	74.9	112.3
141	54.3	45.1	67.7



#15
2-Fluorobiphenyl
Concen: 0.253 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.005 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion	172	Resp	1316
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
171	39.0	29.8	44.8
170	28.5	21.1	31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN037249.D

Acq: 14 Jun 2025 05:21

Instrument :

BNA_N

ClientSampleId :

TT191D2-20250609

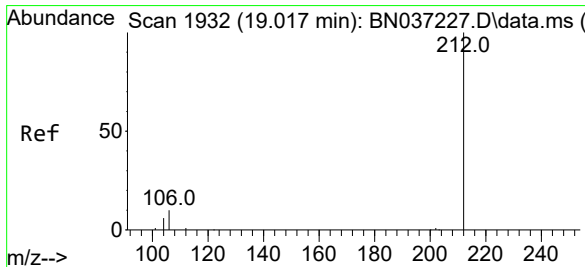
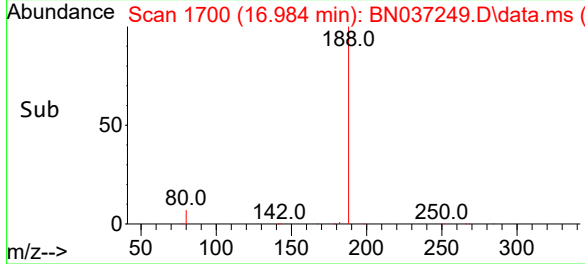
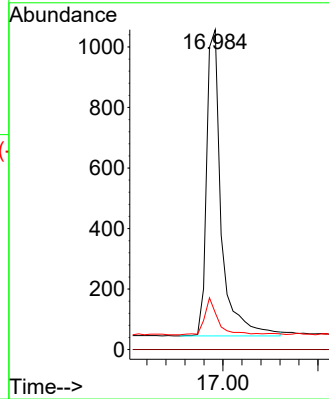
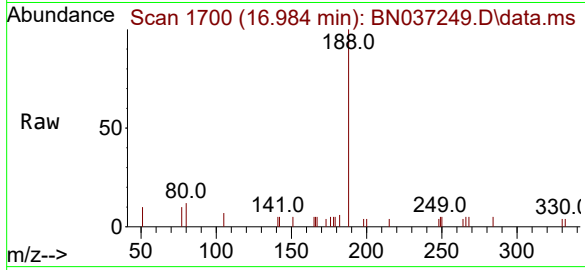
Tgt Ion:188 Resp: 2179

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.5 12.2 18.4#



#27

Fluoranthene-d10

Concen: 0.336 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037249.D

Acq: 14 Jun 2025 05:21

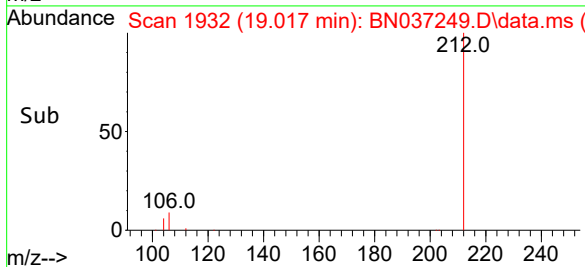
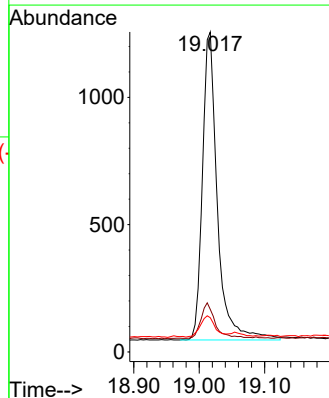
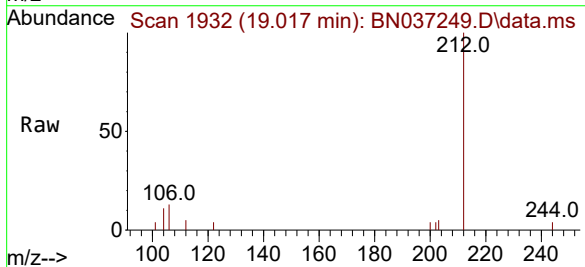
Tgt Ion:212 Resp: 1914

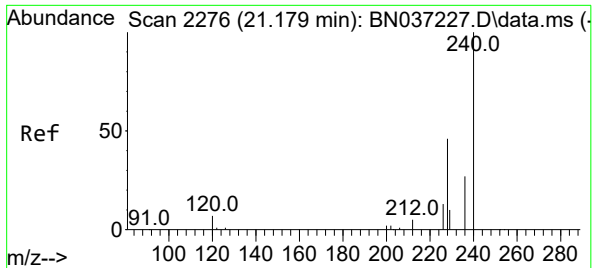
Ion Ratio Lower Upper

212 100

106 11.1 9.3 13.9

104 6.8 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037249.D

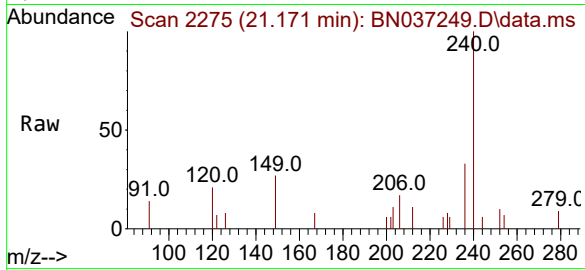
Acq: 14 Jun 2025 05:21

Instrument :

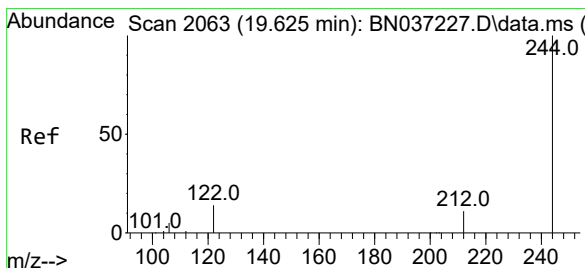
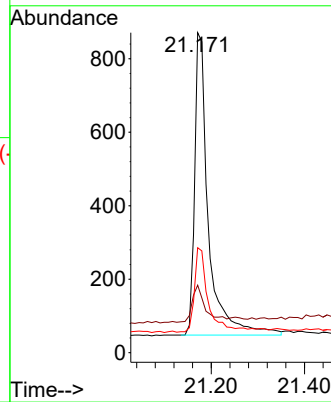
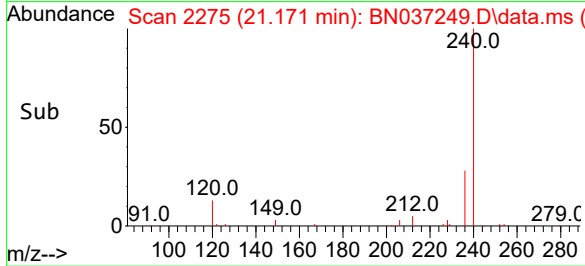
BNA_N

ClientSampleId :

TT191D2-20250609



Tgt Ion:	240	Resp:	1692
Ion Ratio	Lower	Upper	
240	100		
120	21.1	11.3	16.9#
236	32.8	24.4	36.6



#31

Terphenyl-d14

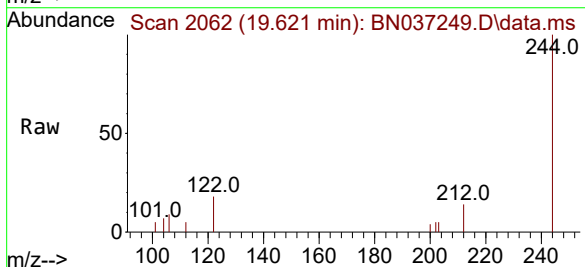
Concen: 0.446 ng

RT: 19.621 min Scan# 2062

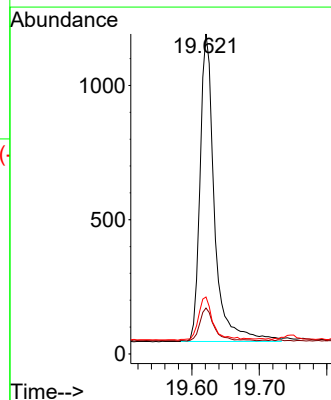
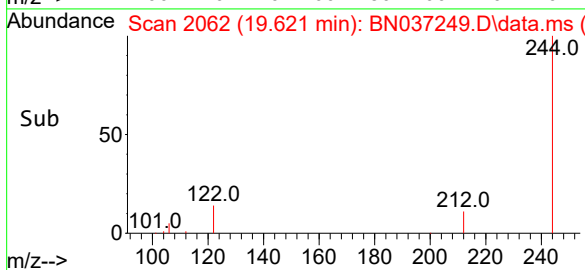
Delta R.T. -0.004 min

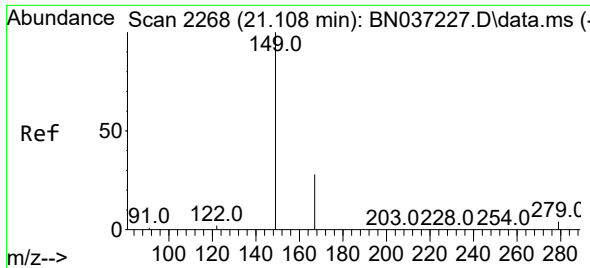
Lab File: BN037249.D

Acq: 14 Jun 2025 05:21



Tgt Ion:	244	Resp:	1705
Ion Ratio	Lower	Upper	
244	100		
212	14.3	12.2	18.2
122	17.8	14.3	21.5

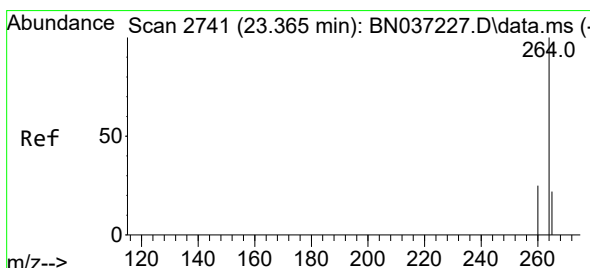
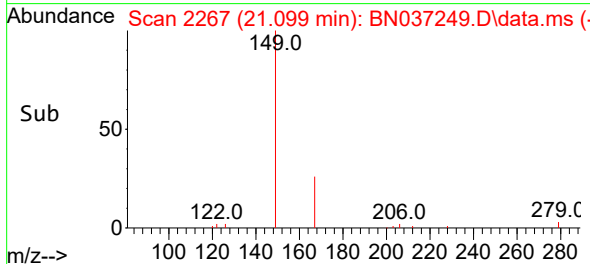
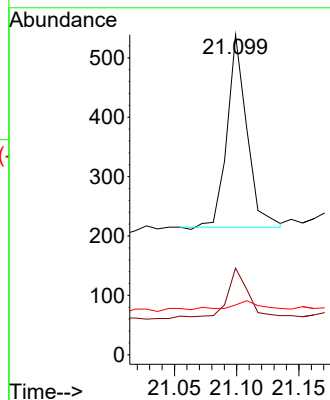
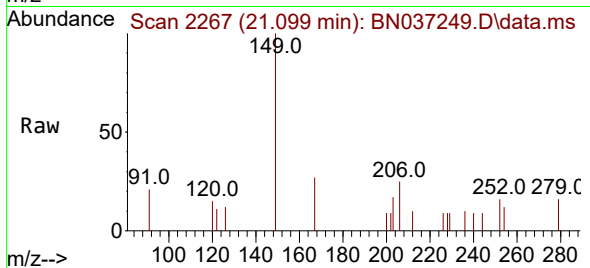




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

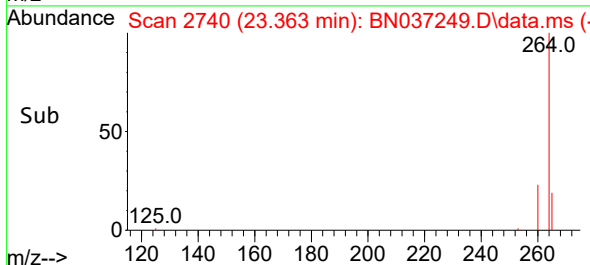
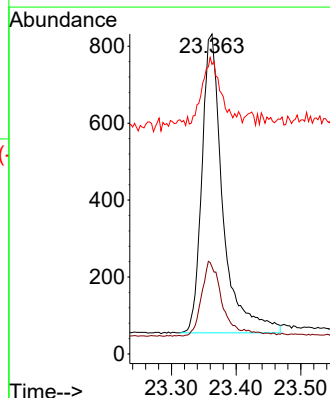
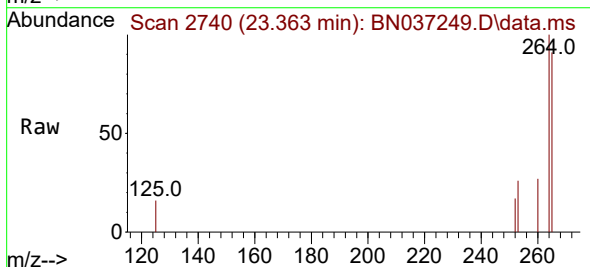
Instrument :
BNA_N
ClientSampleId :
TT191D2-20250609

Tgt Ion:149 Resp: 356
Ion Ratio Lower Upper
149 100
167 30.6 21.3 31.9
279 6.7 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037249.D
Acq: 14 Jun 2025 05:21

Tgt Ion:264 Resp: 1750
Ion Ratio Lower Upper
264 100
260 27.2 22.8 34.2
265 90.5 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10-MW01S-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-07	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
BN037250.D	1	06/13/25 08:03	06/14/25 05:57	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.090	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	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	913		7.582			
1146-65-2	Naphthalene-d8	2260		10.361			
15067-26-2	Acenaphthene-d10	1190		14.224			
1517-22-2	Phenanthrene-d10	2140		16.971			
1719-03-5	Chrysene-d12	1780		21.171			
1520-96-3	Perylene-d12	1850		23.36			

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\BN061325\
 Data File : BN037250.D
 Acq On : 14 Jun 2025 05:57
 Operator : RC/JU
 Sample : Q2299-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20250609

Quant Time: Jun 16 04:51:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

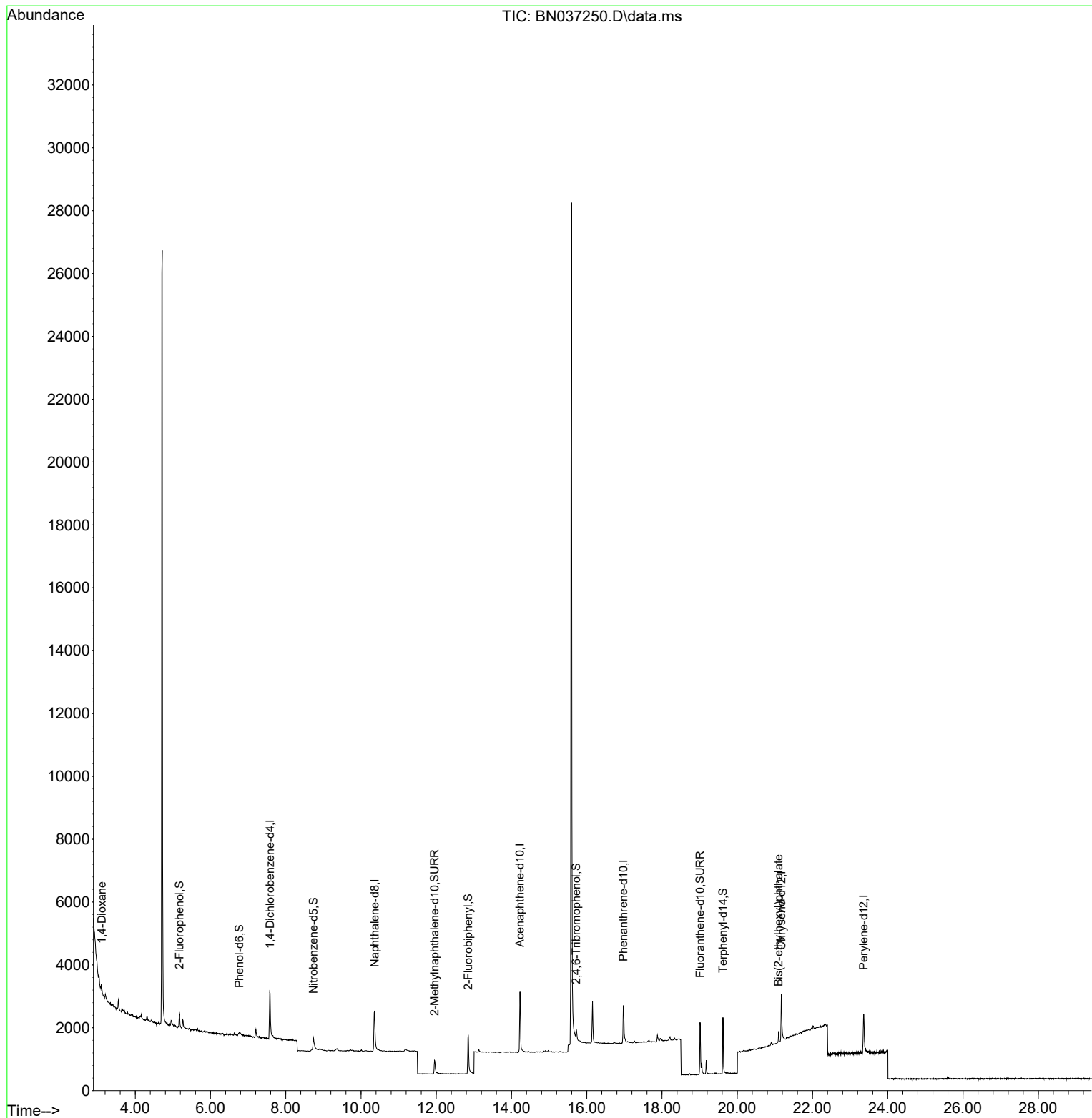
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	913	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2259	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1194	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2140	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1781	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1845	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	306	0.136	ng	0.00
5) Phenol-d6	6.766	99	130	0.055	ng	0.00
8) Nitrobenzene-d5	8.739	82	562	0.252	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	850	0.280	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	185	0.373	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1402	0.279	ng	0.00
27) Fluoranthene-d10	19.012	212	2125	0.380	ng	0.00
31) Terphenyl-d14	19.621	244	1816	0.451	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.112	88	106	0.085	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.099	149	401	0.090	ng	# 89

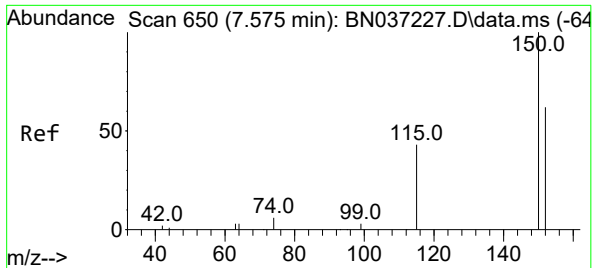
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037250.D
Acq On : 14 Jun 2025 05:57
Operator : RC/JU
Sample : Q2299-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Quant Time: Jun 16 04:51:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

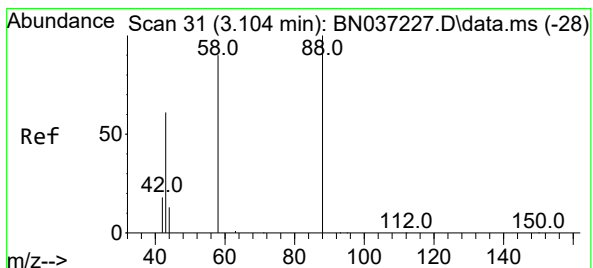
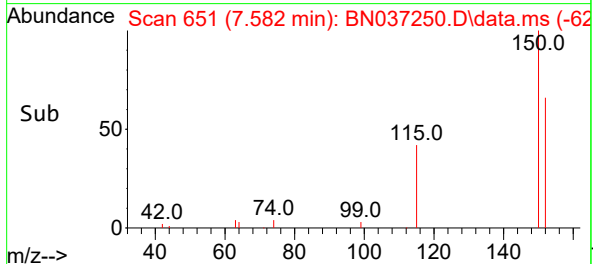
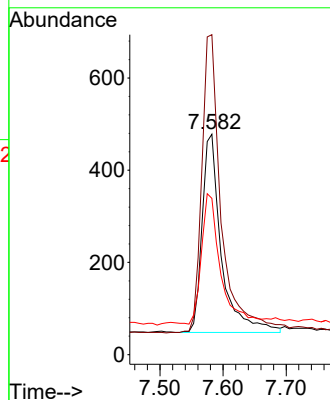
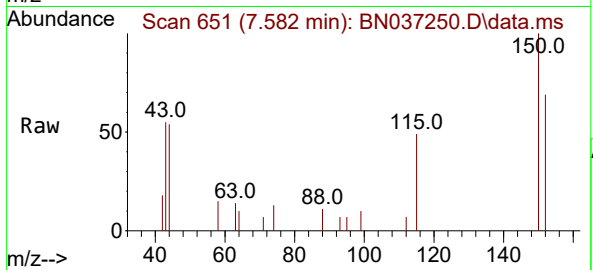




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

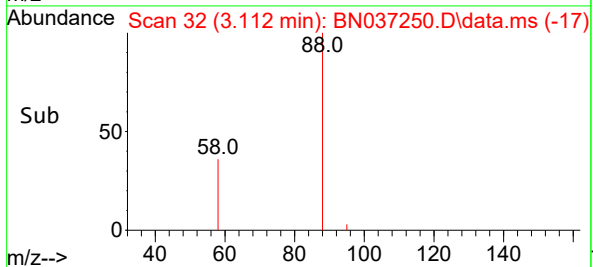
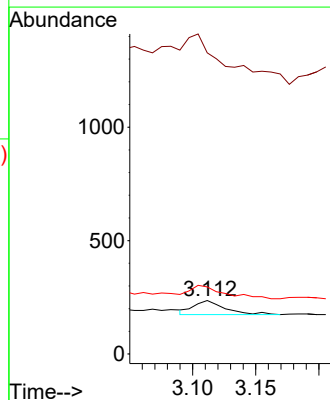
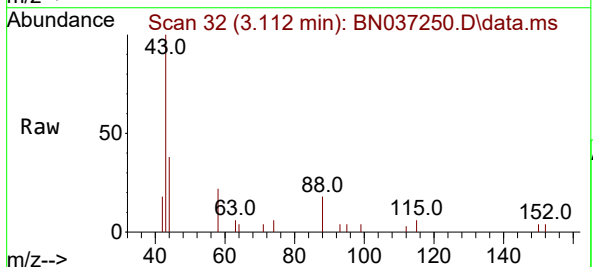
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

Tgt Ion:152 Resp: 913
Ion Ratio Lower Upper
152 100
150 145.2 125.2 187.8
115 70.9 58.4 87.6

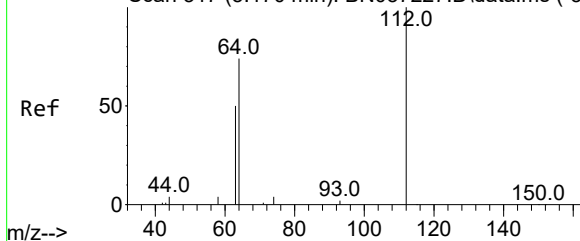


#2
1,4-Dioxane
Concen: 0.085 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

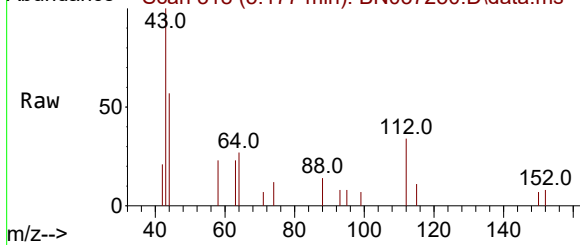
Tgt Ion: 88 Resp: 106
Ion Ratio Lower Upper
88 100
43 461.3 52.6 79.0#
58 100.9 73.5 110.3



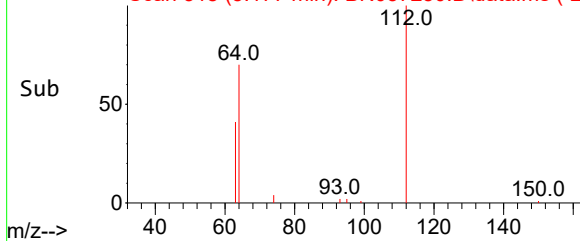
Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31



Abundance Scan 318 (5.177 min): BN037250.D\data.ms



Abundance Scan 318 (5.177 min): BN037250.D\data.ms (-28



#4

2-Fluorophenol

Concen: 0.136 ng

RT: 5.177 min Scan# 31

Delta R.T. 0.007 min

Lab File: BN037250.D

Acq: 14 Jun 2025 05:57

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20250609

Tgt Ion:112 Resp: 306

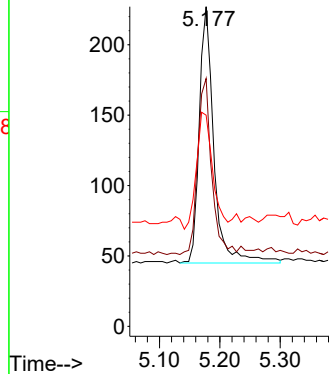
Ion Ratio Lower Upper

112 100

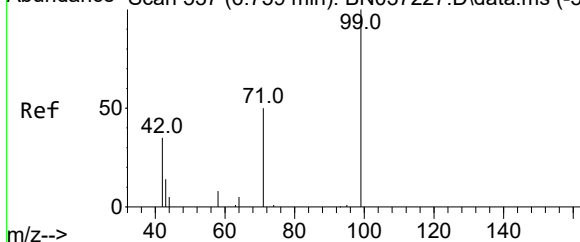
64 66.0 57.2 85.8

63 50.0 39.8 59.6

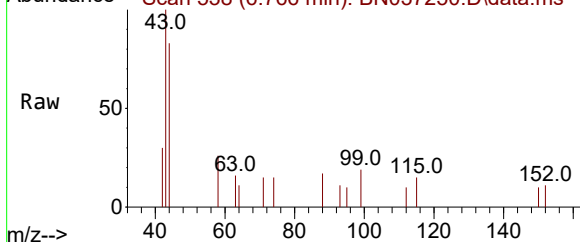
Abundance



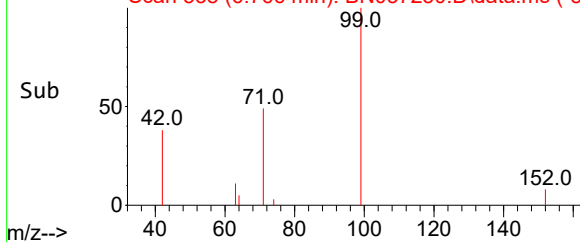
Abundance Scan 537 (6.759 min): BN037227.D\data.ms (-53



Abundance Scan 538 (6.766 min): BN037250.D\data.ms



Abundance Scan 538 (6.766 min): BN037250.D\data.ms (-50



#5

Phenol-d6

Concen: 0.055 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.007 min

Lab File: BN037250.D

Acq: 14 Jun 2025 05:57

Tgt Ion: 99 Resp: 130

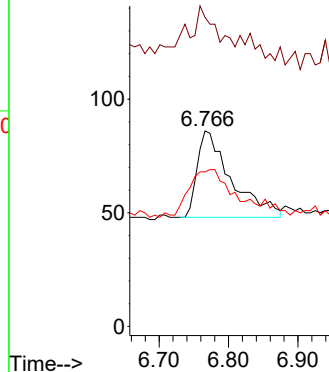
Ion Ratio Lower Upper

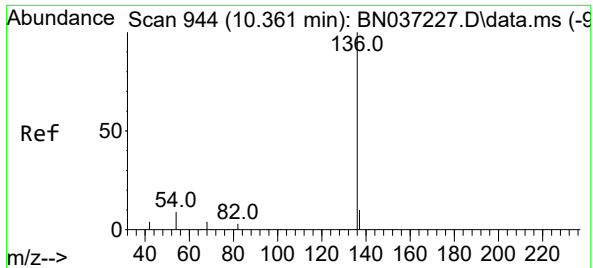
99 100

42 23.8 36.2 54.4#

71 72.3 42.4 63.6#

Abundance

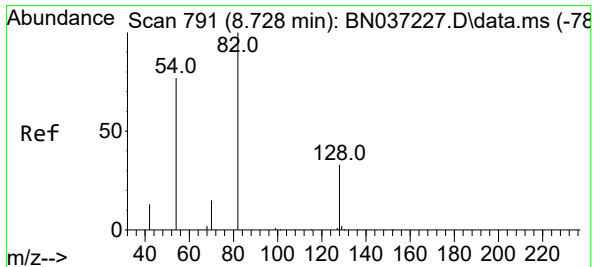
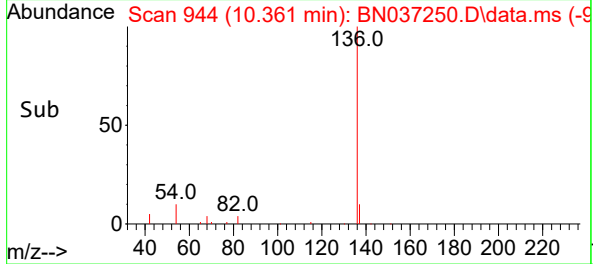
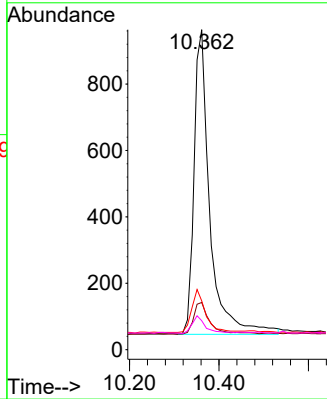
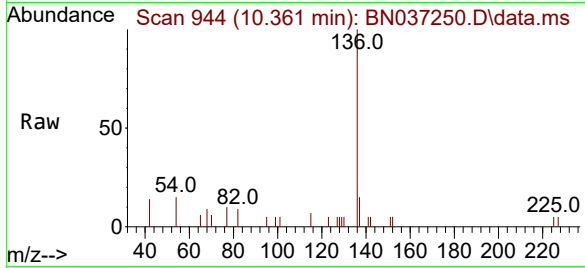




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

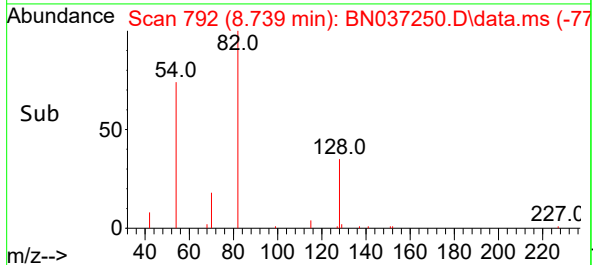
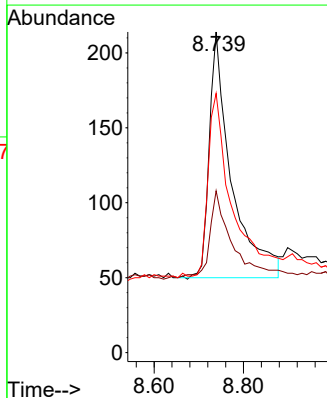
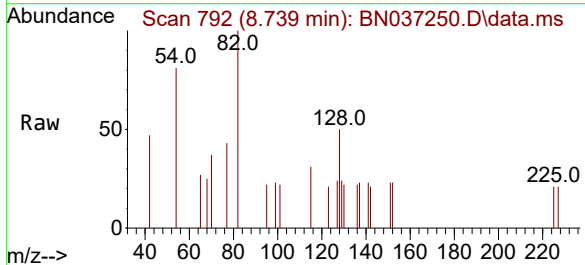
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

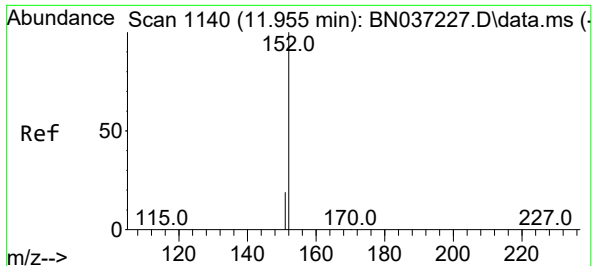
Tgt Ion:	136	Resp:	2259
Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	15.2	9.2	13.8#
68	9.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.252 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:	82	Resp:	562
Ion	Ratio	Lower	Upper
82	100		
128	50.5	31.2	46.8#
54	80.8	63.3	94.9

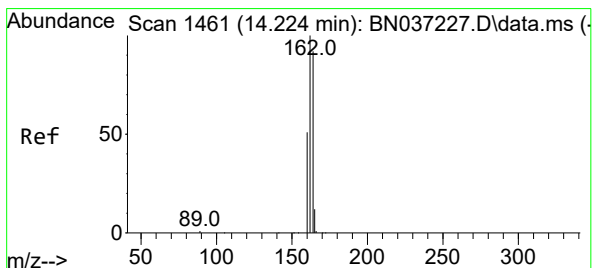
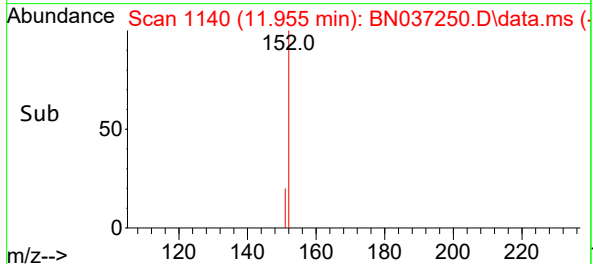
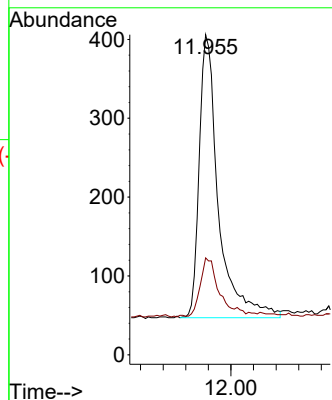
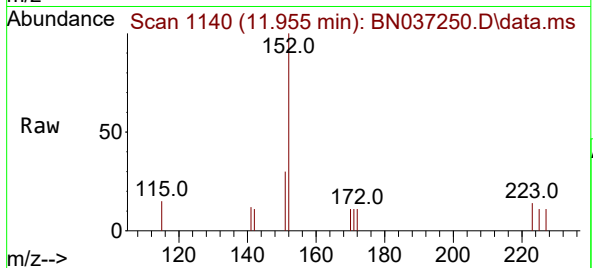




#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

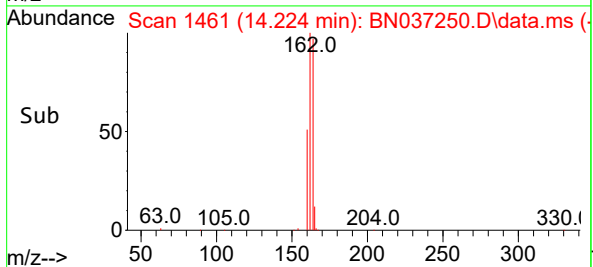
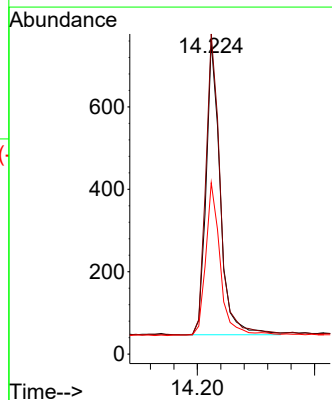
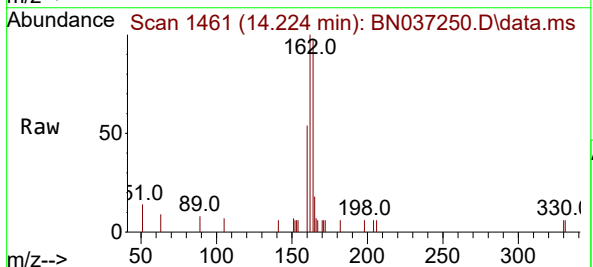
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20250609

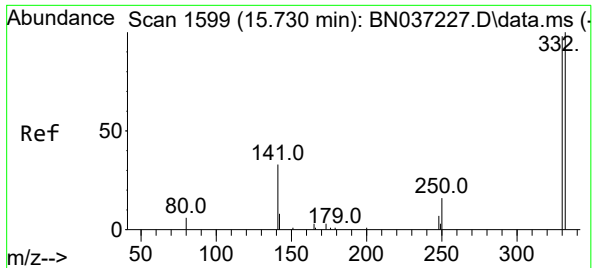
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037250.D
Acq: 14 Jun 2025 05:57

Tgt Ion:164 Resp: 1194
Ion Ratio Lower Upper
164 100
162 102.4 86.7 130.1
160 54.8 45.8 68.6





#14

2,4,6-Tribromophenol

Concen: 0.373 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037250.D

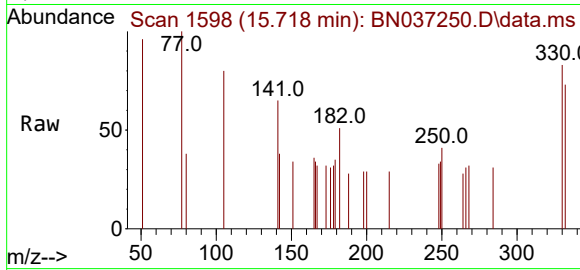
Acq: 14 Jun 2025 05:57

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20250609



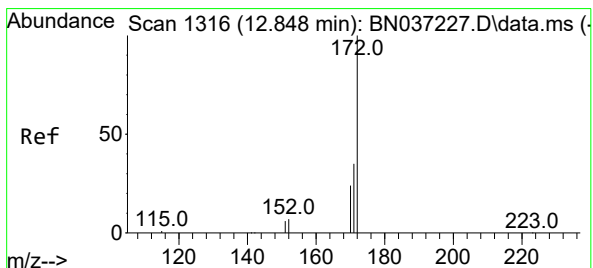
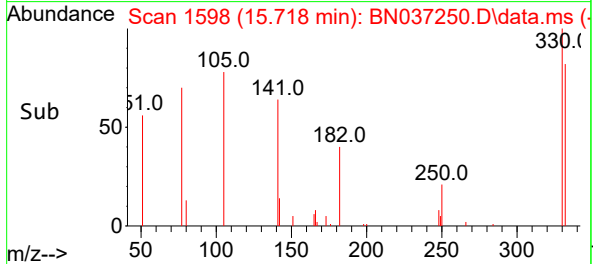
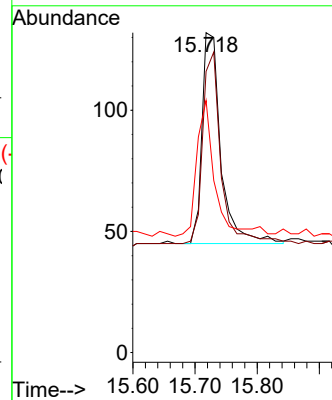
Tgt Ion:330 Resp: 185

Ion Ratio Lower Upper

330 100

332 87.6 74.9 112.3

141 62.2 45.1 67.7



#15

2-Fluorobiphenyl

Concen: 0.279 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037250.D

Acq: 14 Jun 2025 05:57

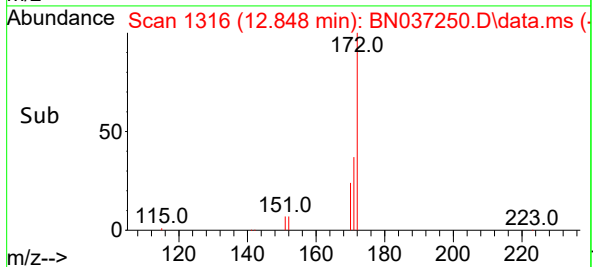
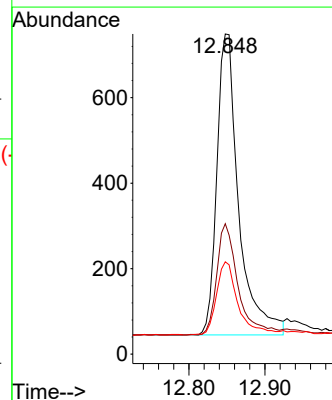
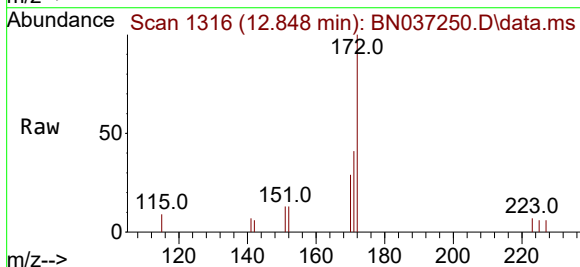
Tgt Ion:172 Resp: 1402

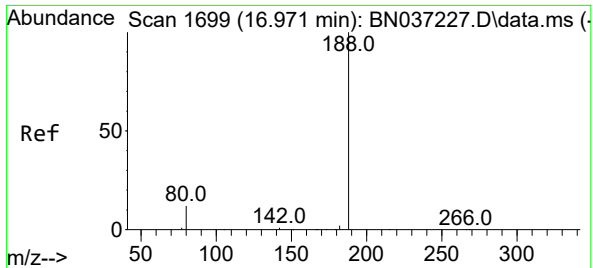
Ion Ratio Lower Upper

172 100

171 40.7 29.8 44.8

170 28.8 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037250.D

Acq: 14 Jun 2025 05:57

Instrument :

BNA_N

ClientSampleId :

RW10-MW01S-20250609

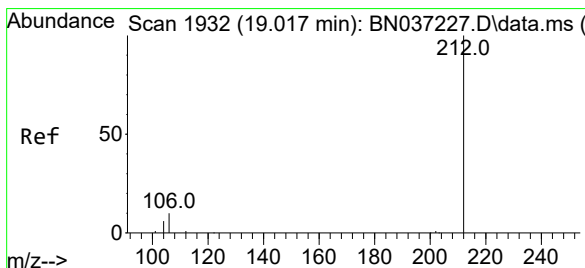
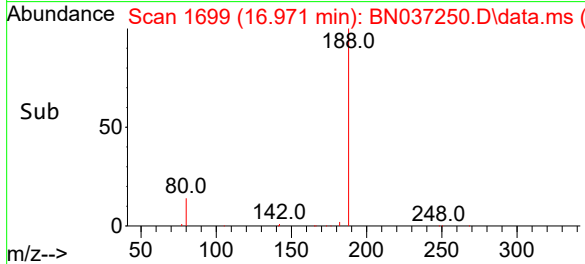
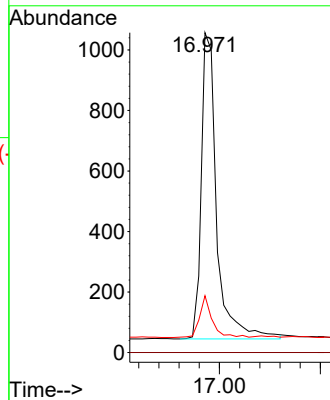
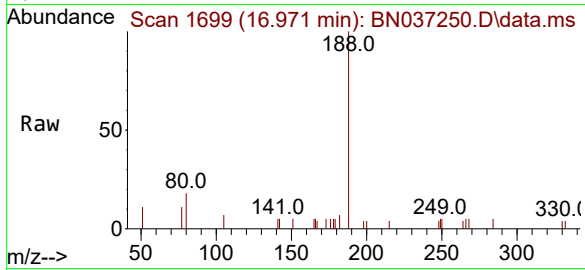
Tgt Ion:188 Resp: 2140

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.8 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037250.D

Acq: 14 Jun 2025 05:57

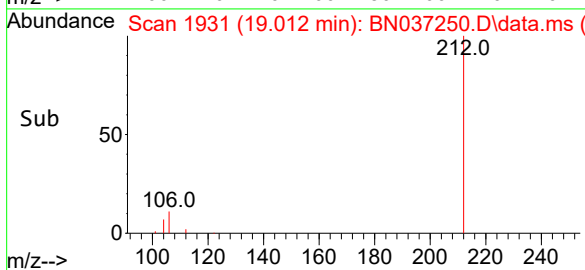
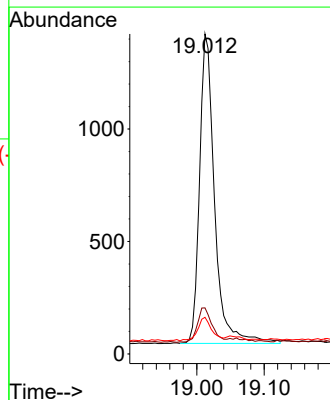
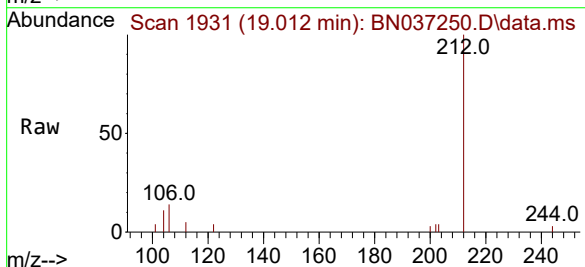
Tgt Ion:212 Resp: 2125

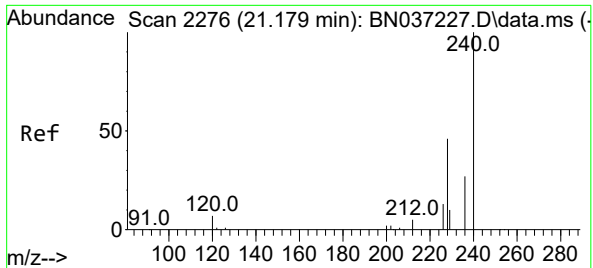
Ion Ratio Lower Upper

212 100

106 10.9 9.3 13.9

104 7.1 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037250.D

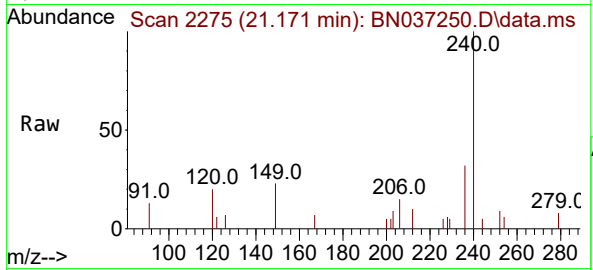
Acq: 14 Jun 2025 05:57

Instrument :

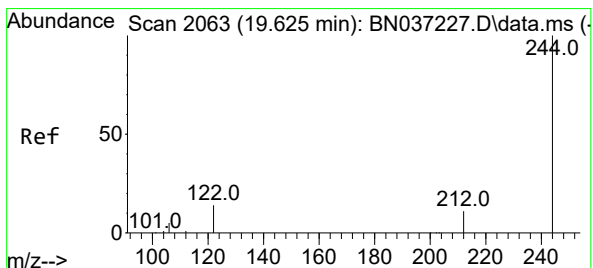
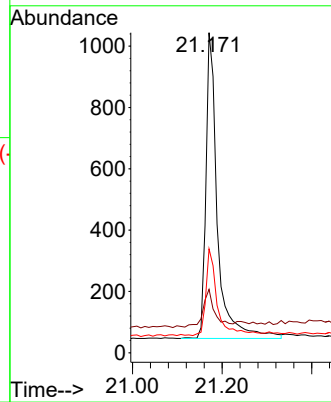
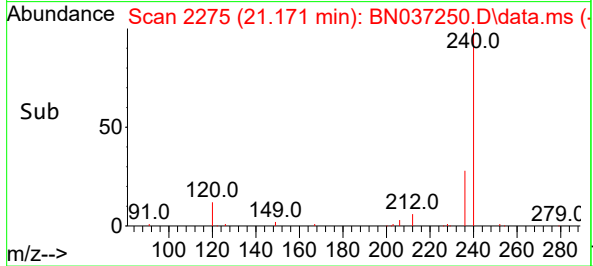
BNA_N

ClientSampleId :

RW10-MW01S-20250609



Tgt Ion:	240	Resp:	1781
Ion	Ratio	Lower	Upper
240	100		
120	19.8	11.3	16.9#
236	32.5	24.4	36.6



#31

Terphenyl-d14

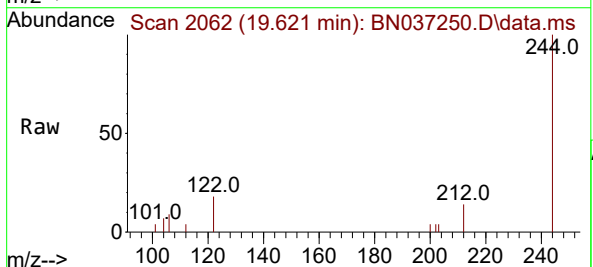
Concen: 0.451 ng

RT: 19.621 min Scan# 2062

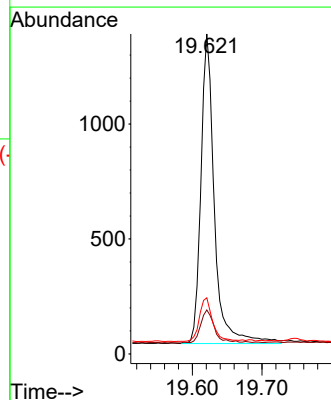
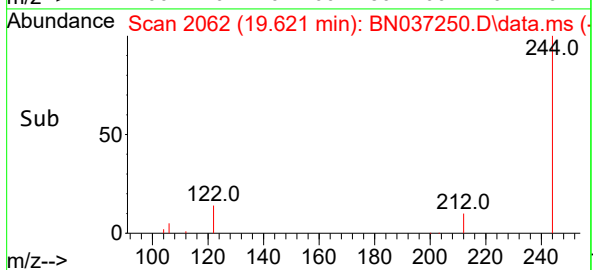
Delta R.T. -0.005 min

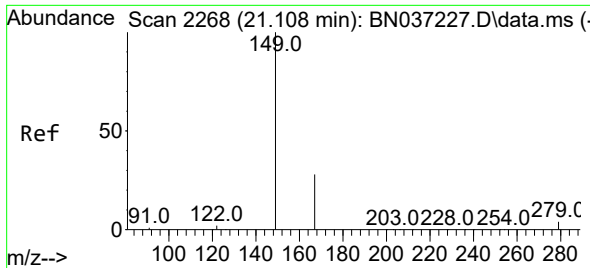
Lab File: BN037250.D

Acq: 14 Jun 2025 05:57



Tgt Ion:	244	Resp:	1816
Ion	Ratio	Lower	Upper
244	100		
212	13.7	12.2	18.2
122	17.5	14.3	21.5

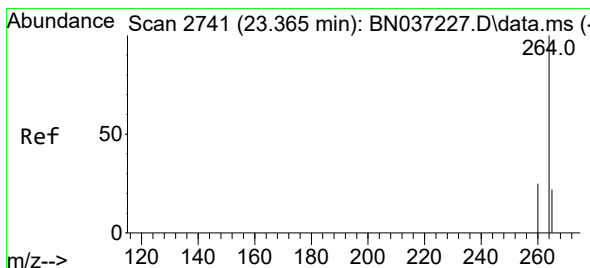
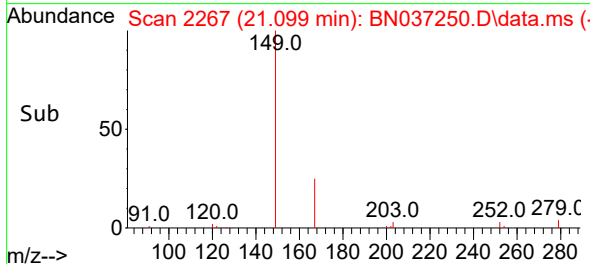
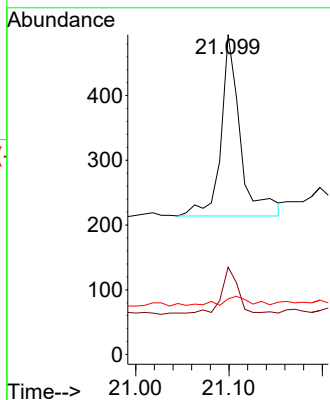
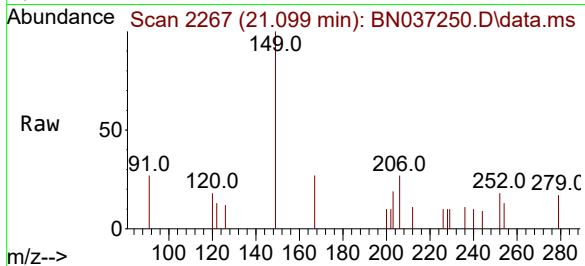




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.090 ng
 RT: 21.099 min Scan# 2109
 Delta R.T. -0.009 min
 Lab File: BN037250.D
 Acq: 14 Jun 2025 05:57

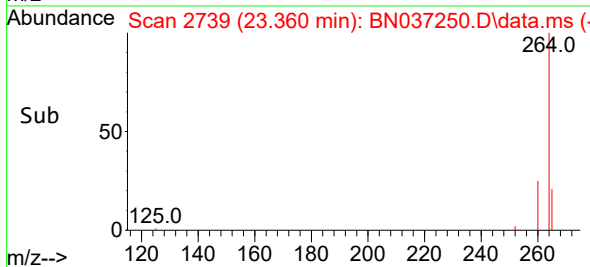
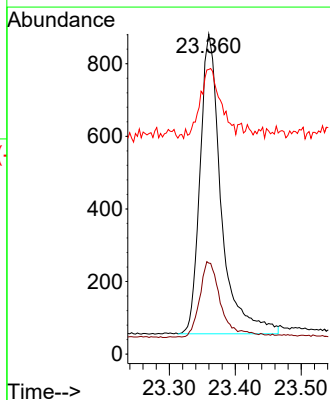
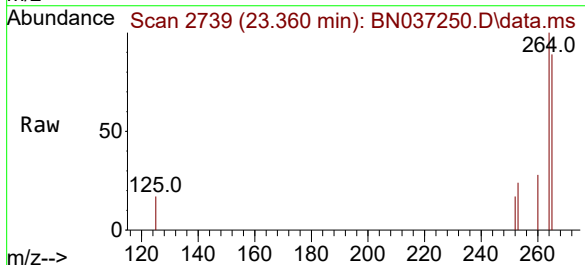
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01S-20250609

Tgt Ion:149 Resp: 401
 Ion Ratio Lower Upper
 149 100
 167 20.4 21.3 31.9#
 279 6.7 3.3 4.9#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.360 min Scan# 2739
 Delta R.T. -0.006 min
 Lab File: BN037250.D
 Acq: 14 Jun 2025 05:57

Tgt Ion:264 Resp: 1845
 Ion Ratio Lower Upper
 264 100
 260 28.5 22.8 34.2
 265 88.9 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10-MW01D-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-08	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
BN037251.D	1	06/13/25 08:03	06/14/25 06:33	PB168458

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	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		62%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	978	7.582				
1146-65-2	Naphthalene-d8	2450	10.362				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2260	16.971				
1719-03-5	Chrysene-d12	1680	21.18				
1520-96-3	Perylene-d12	1690	23.36				

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\BN061325\
 Data File : BN037251.D
 Acq On : 14 Jun 2025 06:33
 Operator : RC/JU
 Sample : Q2299-08
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20250609

Quant Time: Jun 16 01:00:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

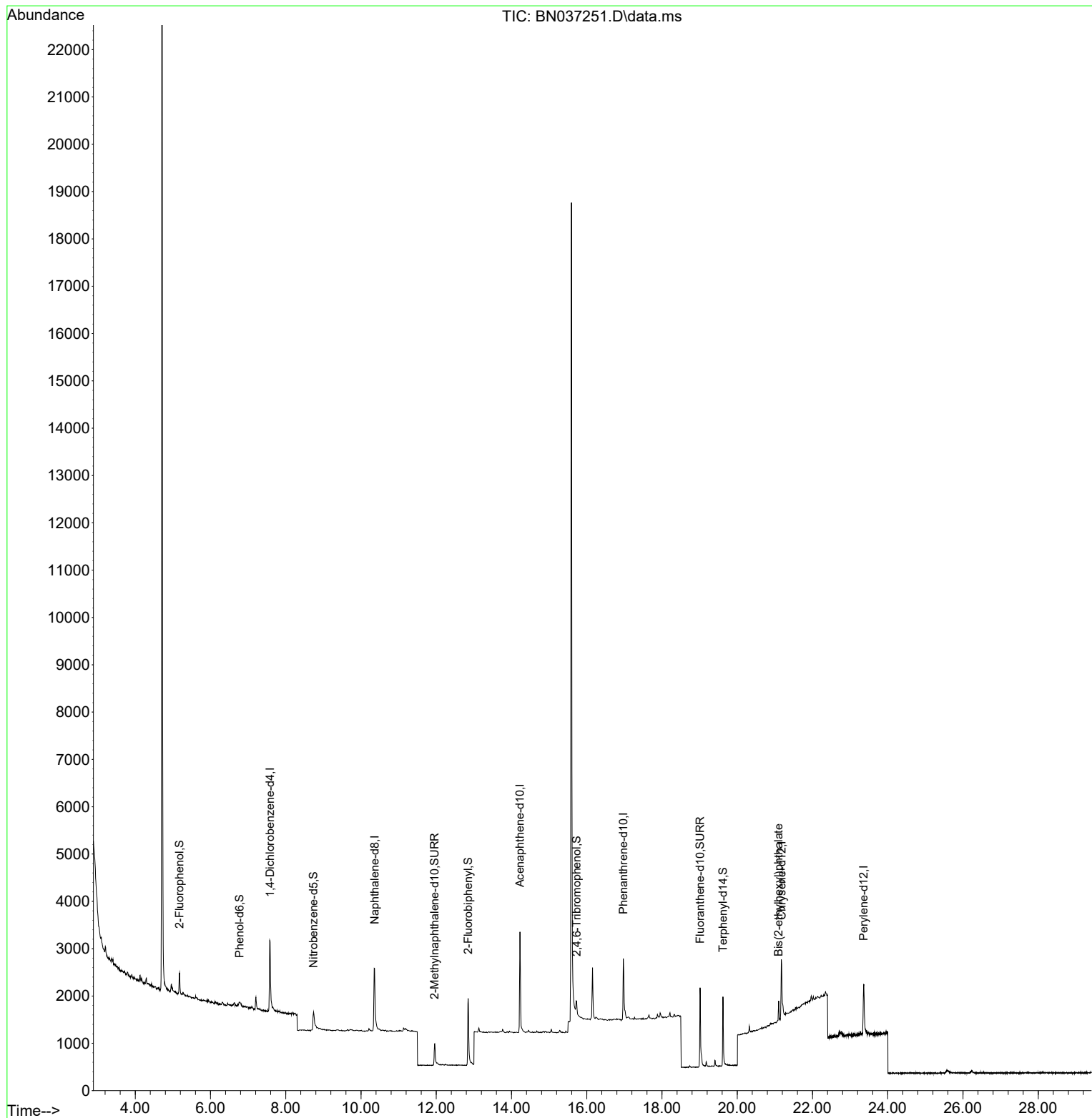
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	978	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2447	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1301	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2259	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1680	0.400	ng	0.00
35) Perylene-d12	23.360	264	1691	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	348	0.145	ng	0.00
5) Phenol-d6	6.773	99	157	0.062	ng	0.01
8) Nitrobenzene-d5	8.739	82	595	0.246	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	913	0.278	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	185	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1669	0.305	ng	0.00
27) Fluoranthene-d10	19.012	212	2160	0.365	ng	0.00
31) Terphenyl-d14	19.621	244	1709	0.450	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	444	0.105	ng	# 96

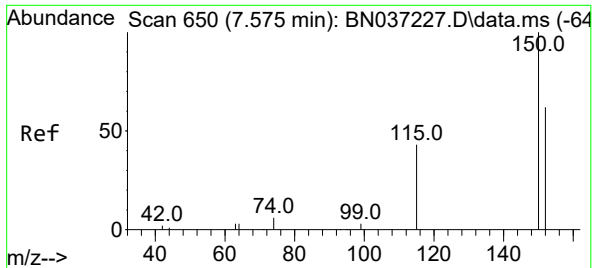
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037251.D
Acq On : 14 Jun 2025 06:33
Operator : RC/JU
Sample : Q2299-08
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

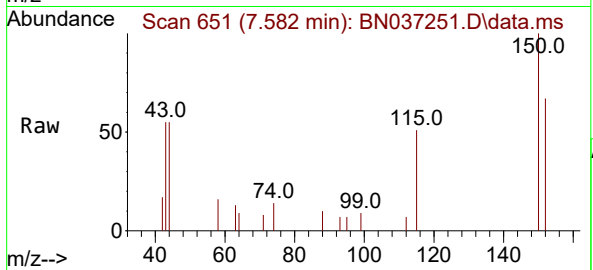
Quant Time: Jun 16 01:00:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



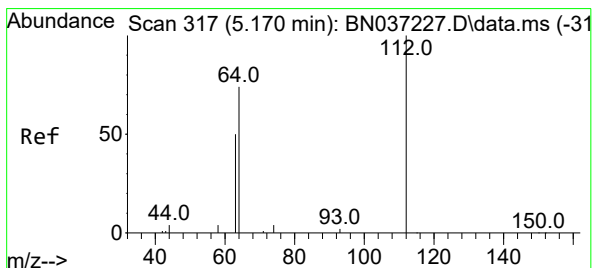
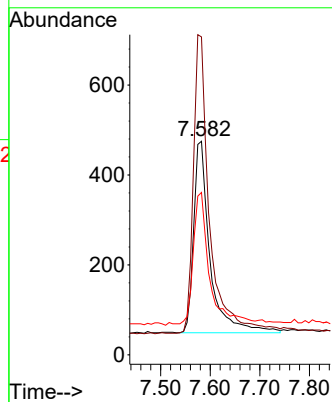
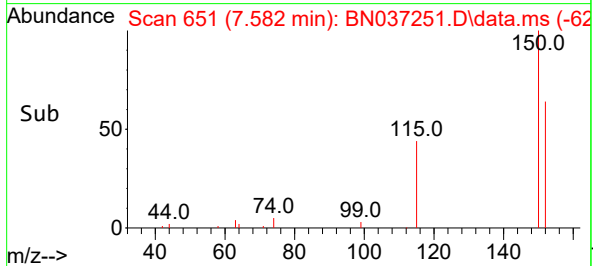


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

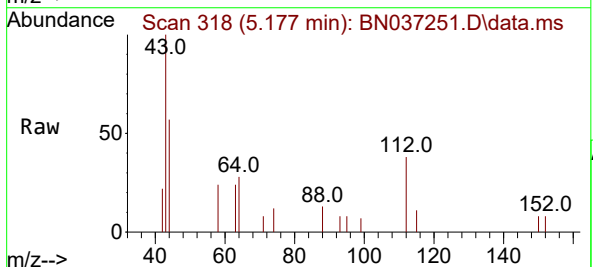
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609



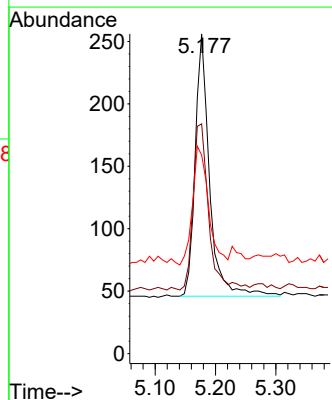
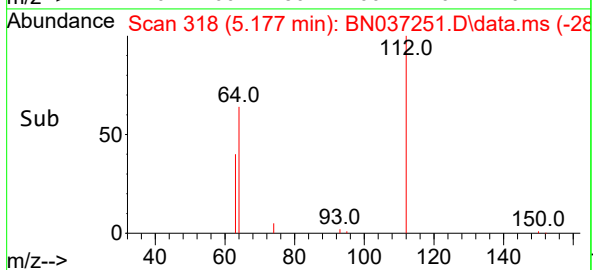
Tgt Ion:152 Resp: 978
Ion Ratio Lower Upper
152 100
150 148.8 125.2 187.8
115 76.0 58.4 87.6

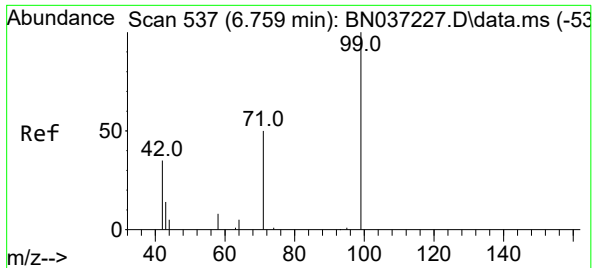


#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33



Tgt Ion:112 Resp: 348
Ion Ratio Lower Upper
112 100
64 68.4 57.2 85.8
63 49.7 39.8 59.6

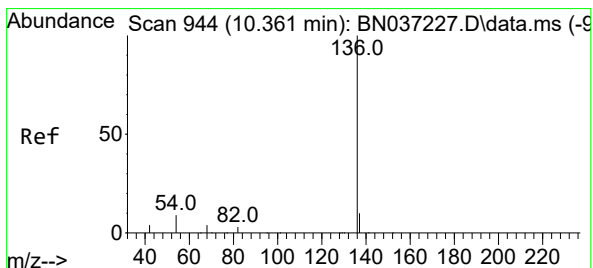
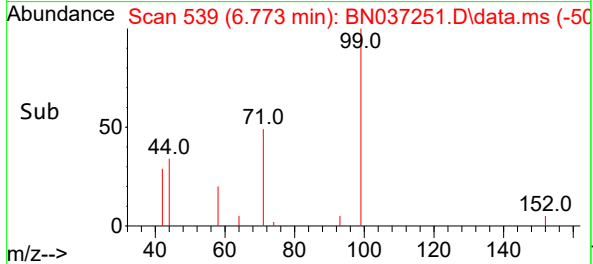
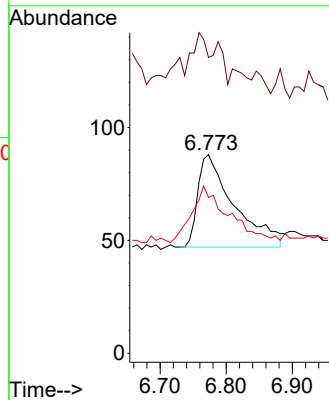
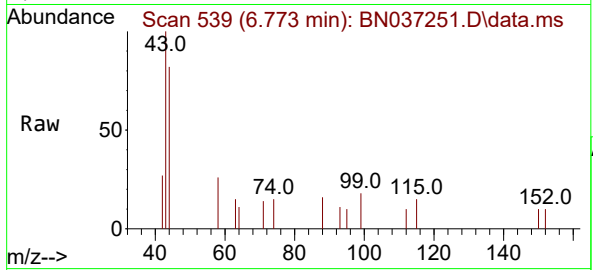




#5
Phenol-d6
Concen: 0.062 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.015 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

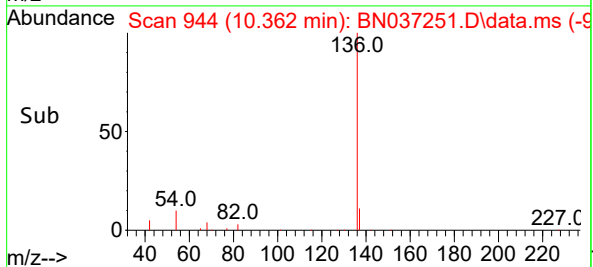
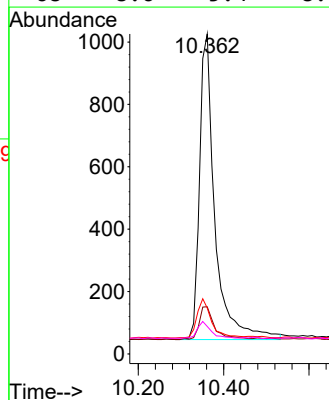
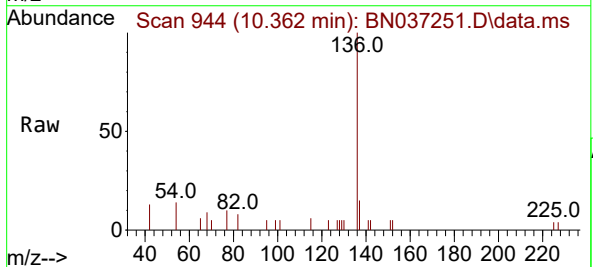
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

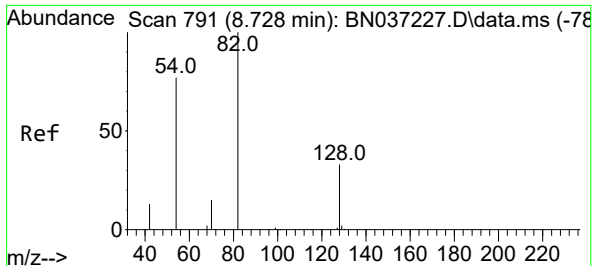
Tgt Ion: 99 Resp: 157
Ion Ratio Lower Upper
99 100
42 17.2 36.2 54.4#
71 61.1 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion: 136 Resp: 2447
Ion Ratio Lower Upper
136 100
137 14.7 10.6 15.8
54 14.3 9.2 13.8#
68 8.6 5.4 8.0#

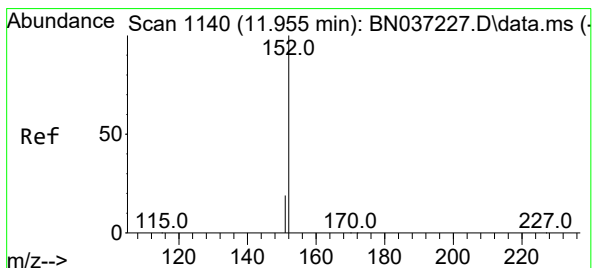
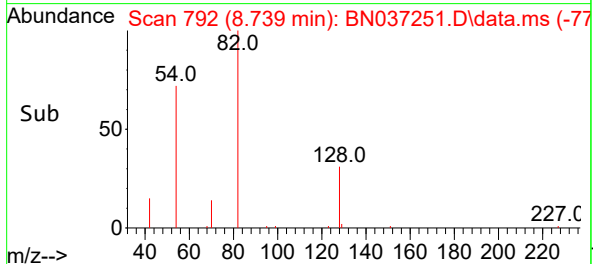
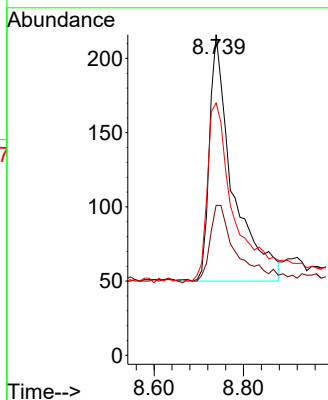
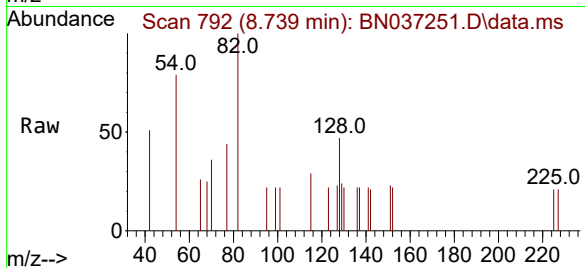




#8
Nitrobenzene-d5
Concen: 0.246 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

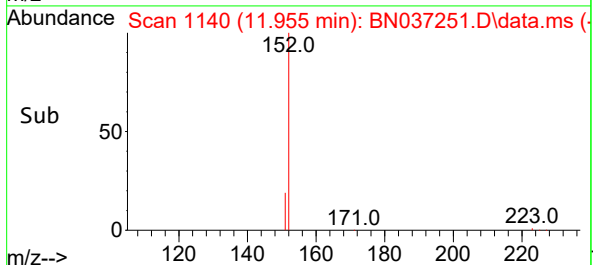
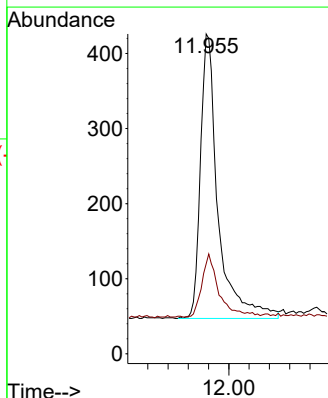
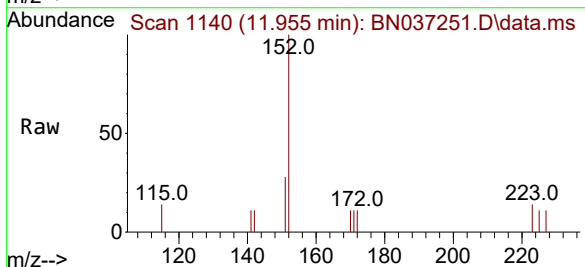
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

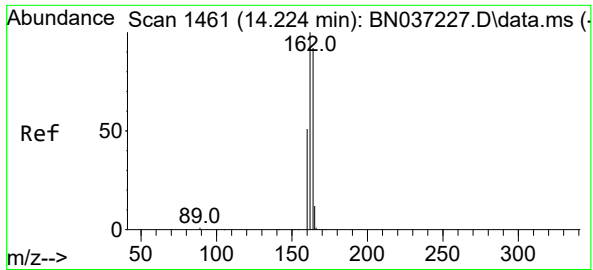
Tgt Ion	82	Resp:	595
Ion	Ratio	Lower	Upper
82	100		
128	46.8	31.2	46.8
54	78.7	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.278 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion	152	Resp:	913
Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.9	26.9

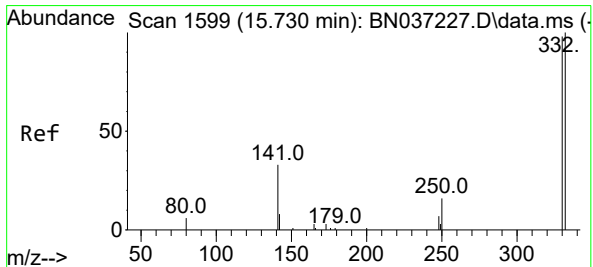
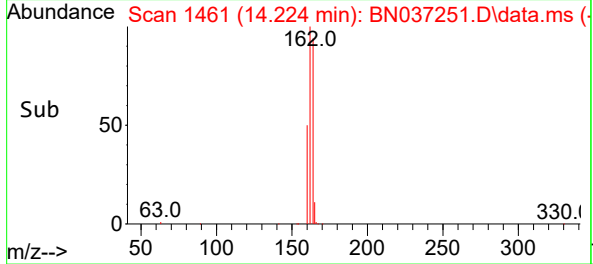
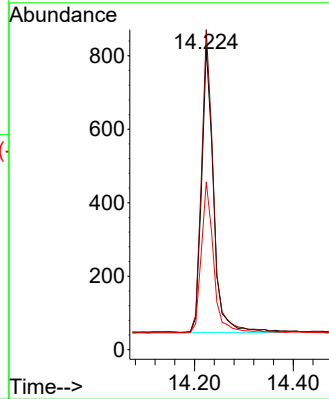
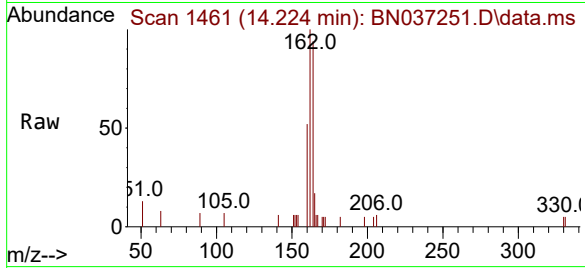




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

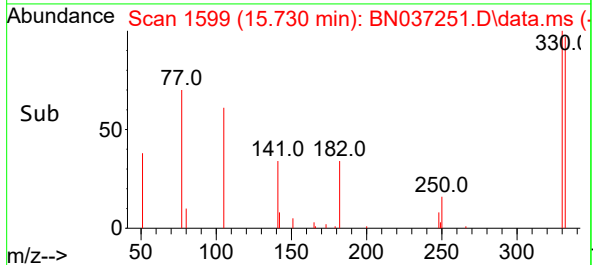
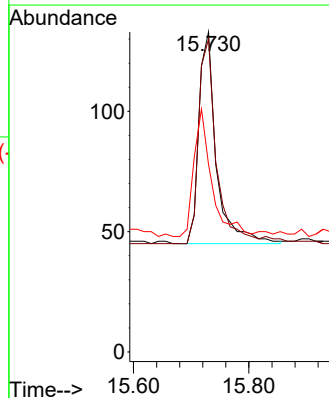
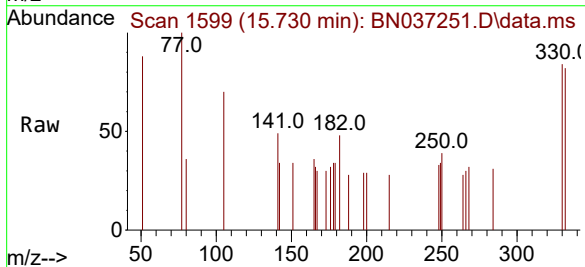
Instrument :
BNA_N
ClientSampleId :
RW10-MW01D-20250609

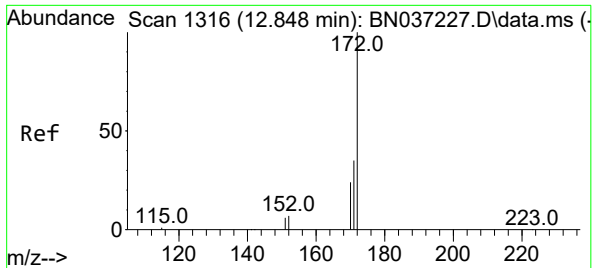
Tgt Ion:	164	Resp:	1301
Ion	Ratio	Lower	Upper
164	100		
162	106.0	86.7	130.1
160	55.6	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037251.D
Acq: 14 Jun 2025 06:33

Tgt Ion:	330	Resp:	185
Ion	Ratio	Lower	Upper
330	100		
332	101.1	74.9	112.3
141	61.1	45.1	67.7





#15

2-Fluorobiphenyl

Concen: 0.305 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037251.D

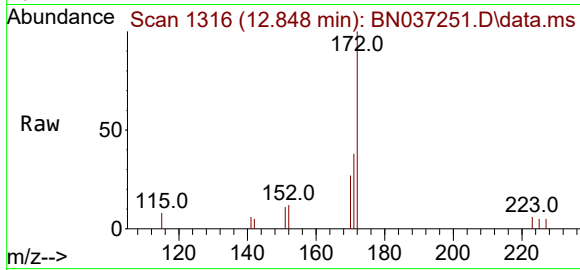
Acq: 14 Jun 2025 06:33

Instrument :

BNA_N

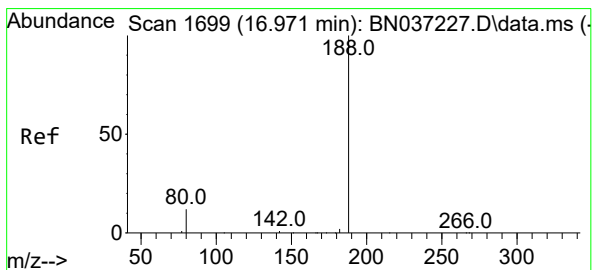
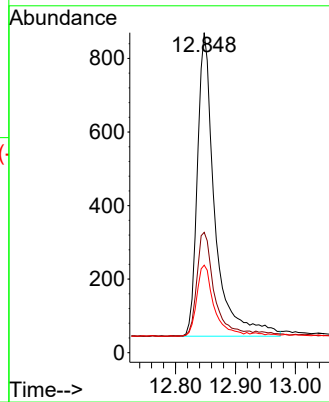
ClientSampleId :

RW10-MW01D-20250609



Tgt Ion:172 Resp: 1669

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.8	44.8
170	27.4	21.1	31.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

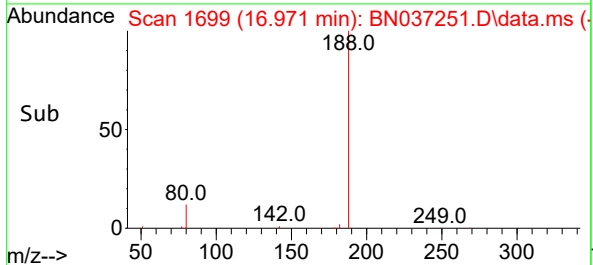
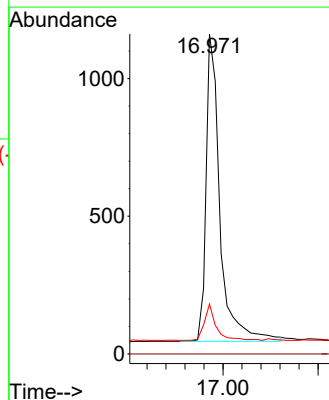
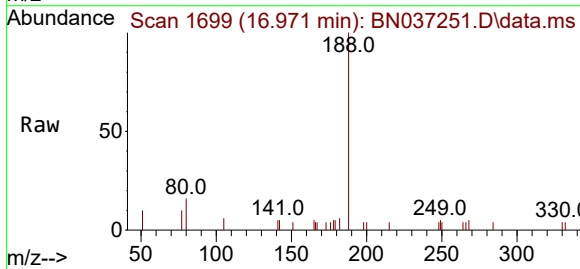
Delta R.T. 0.000 min

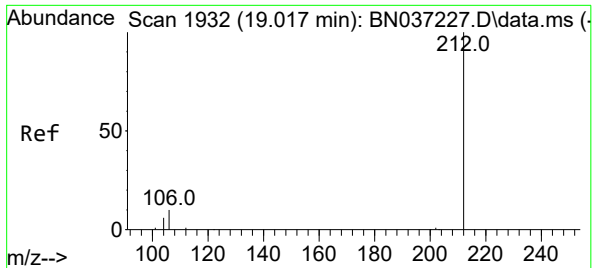
Lab File: BN037251.D

Acq: 14 Jun 2025 06:33

Tgt Ion:188 Resp: 2259

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037251.D

Acq: 14 Jun 2025 06:33

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20250609

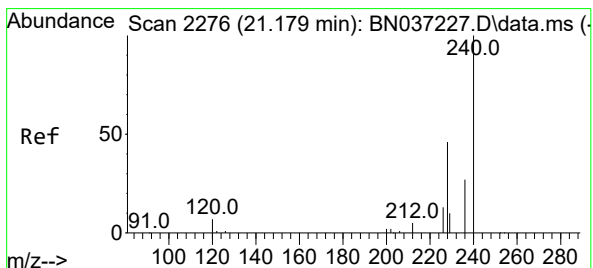
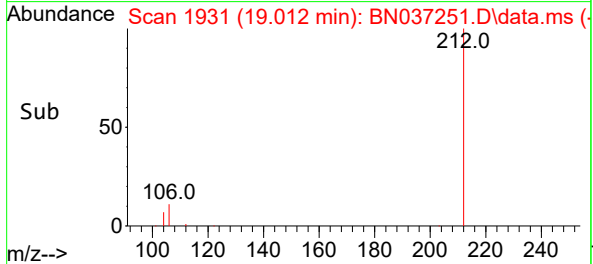
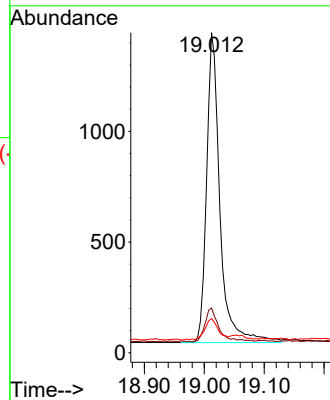
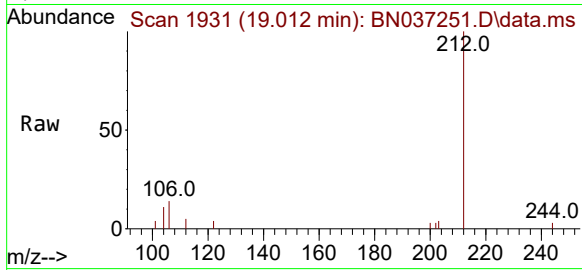
Tgt Ion:212 Resp: 2160

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 6.9 5.7 8.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037251.D

Acq: 14 Jun 2025 06:33

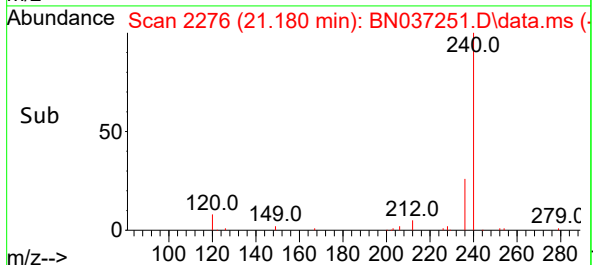
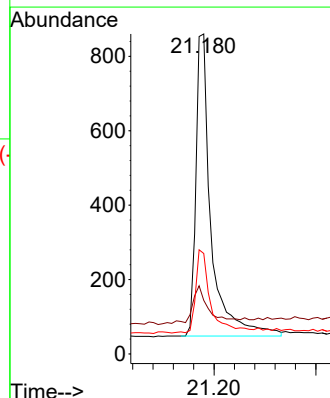
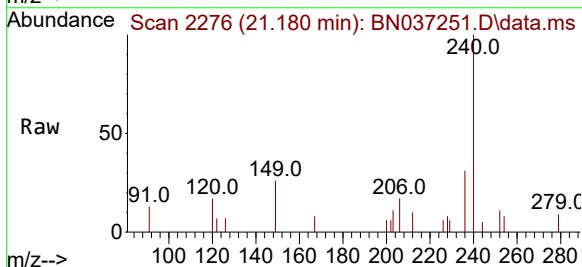
Tgt Ion:240 Resp: 1680

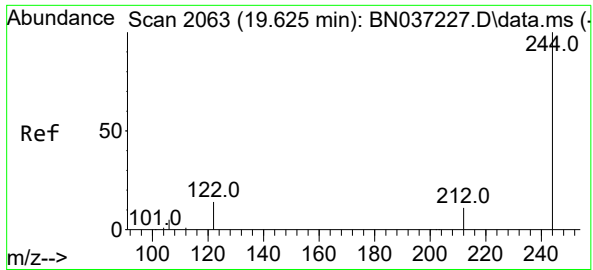
Ion Ratio Lower Upper

240 100

120 16.7 11.3 16.9

236 31.4 24.4 36.6

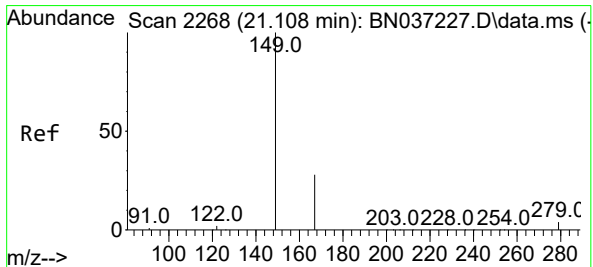
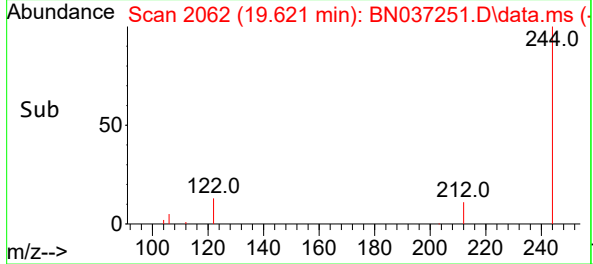
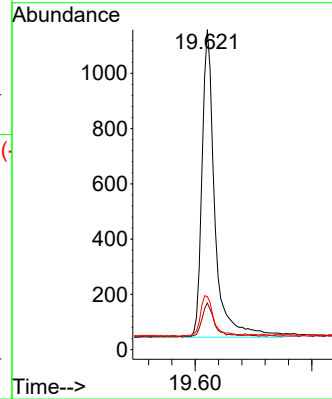
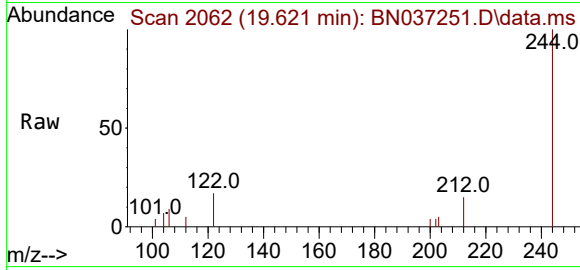




#31
 Terphenyl-d14
 Concen: 0.450 ng
 RT: 19.621 min Scan# 2062
 Delta R.T. -0.005 min
 Lab File: BN037251.D
 Acq: 14 Jun 2025 06:33

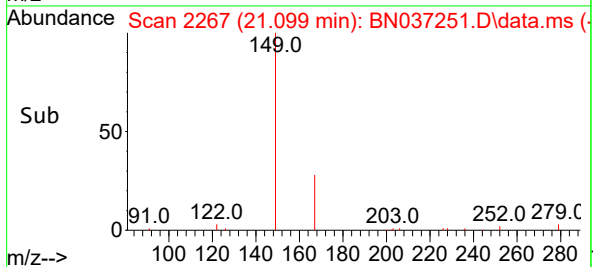
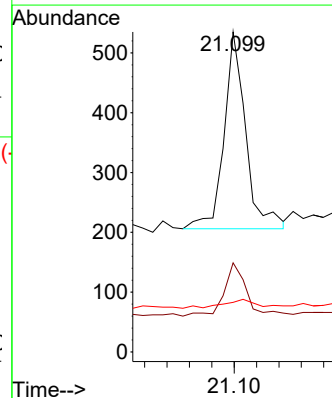
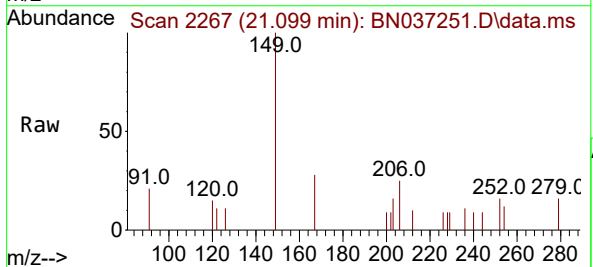
Instrument :
 BNA_N
 ClientSampleId :
 RW10-MW01D-20250609

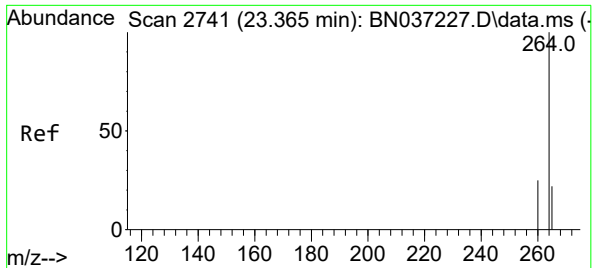
Tgt Ion:244 Resp: 1709
 Ion Ratio Lower Upper
 244 100
 212 14.6 12.2 18.2
 122 16.6 14.3 21.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.105 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.009 min
 Lab File: BN037251.D
 Acq: 14 Jun 2025 06:33

Tgt Ion:149 Resp: 444
 Ion Ratio Lower Upper
 149 100
 167 28.2 21.3 31.9
 279 7.7 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037251.D

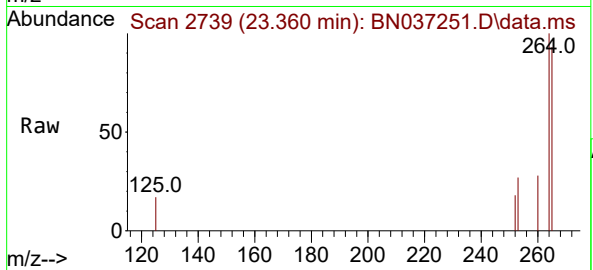
Acq: 14 Jun 2025 06:33

Instrument :

BNA_N

ClientSampleId :

RW10-MW01D-20250609



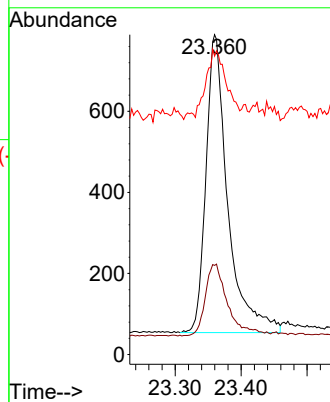
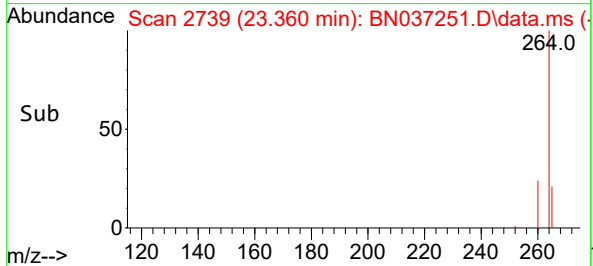
Tgt Ion:264 Resp: 1691

Ion Ratio Lower Upper

264 100

260 27.9 22.8 34.2

265 93.3 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10A-MW01S-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN037252.D	1	06/13/25 08:03	06/14/25 07:09	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		136%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	993		7.575			
1146-65-2	Naphthalene-d8	2390		10.351			
15067-26-2	Acenaphthene-d10	1290		14.224			
1517-22-2	Phenanthrene-d10	2300		16.971			
1719-03-5	Chrysene-d12	1690		21.171			
1520-96-3	Perylene-d12	1690		23.36			

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\BN061325\
 Data File : BN037252.D
 Acq On : 14 Jun 2025 07:09
 Operator : RC/JU
 Sample : Q2299-09
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW10A-MW01S-20250609

Quant Time: Jun 16 01:00:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

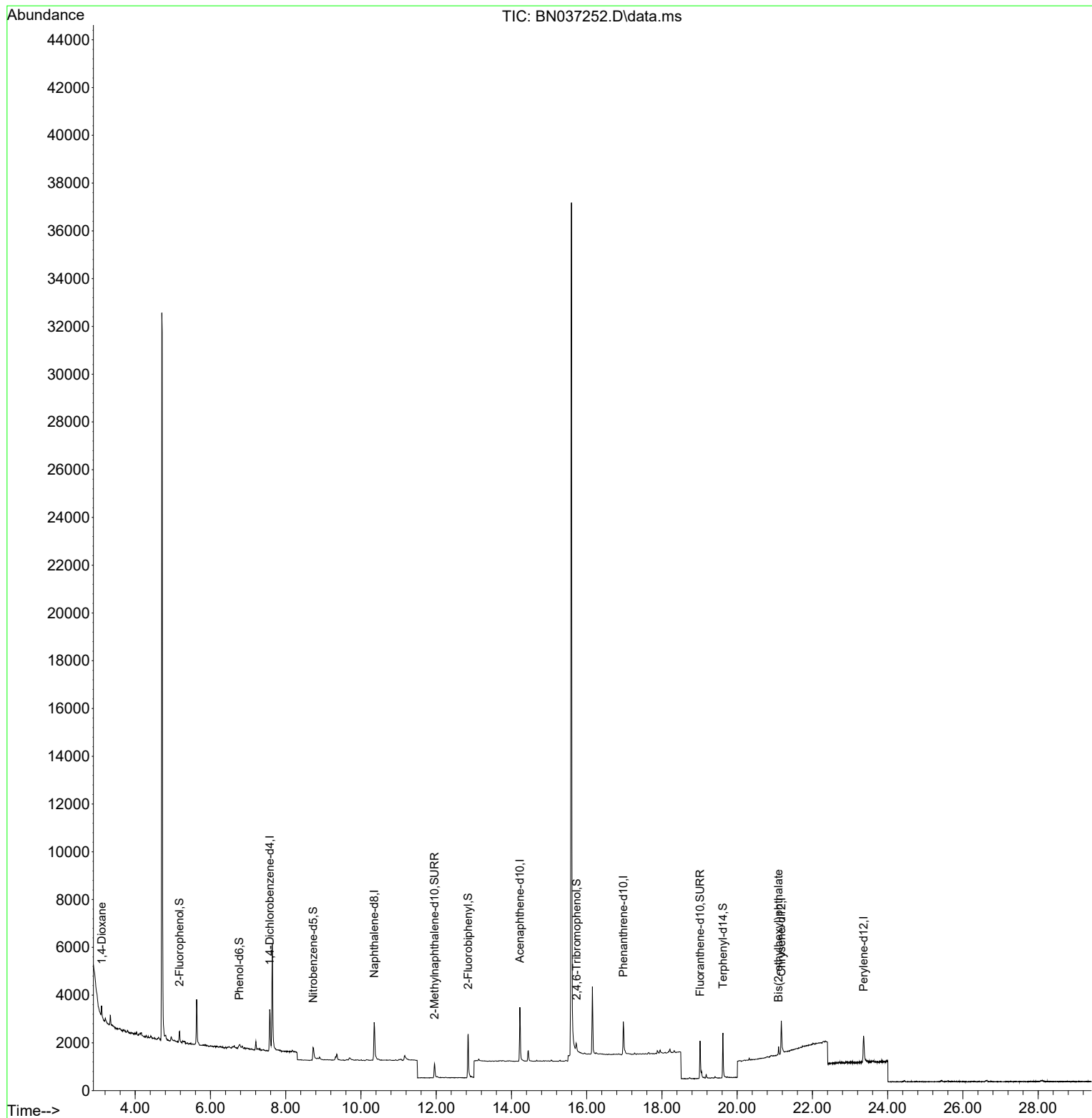
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	993	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2388	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1287	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2304	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1687	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1690	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	342	0.140	ng	0.00
5) Phenol-d6	6.766	99	170	0.066	ng	0.00
8) Nitrobenzene-d5	8.728	82	683	0.289	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1008	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	204	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1863	0.344	ng	0.00
27) Fluoranthene-d10	19.012	212	2126	0.353	ng	0.00
31) Terphenyl-d14	19.621	244	2066	0.542	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.112	88	197	0.145	ng	# 10
34) Bis(2-ethylhexyl)phtha...	21.099	149	362	0.085	ng	97

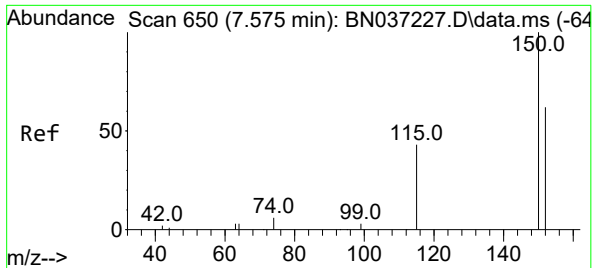
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037252.D
Acq On : 14 Jun 2025 07:09
Operator : RC/JU
Sample : Q2299-09
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

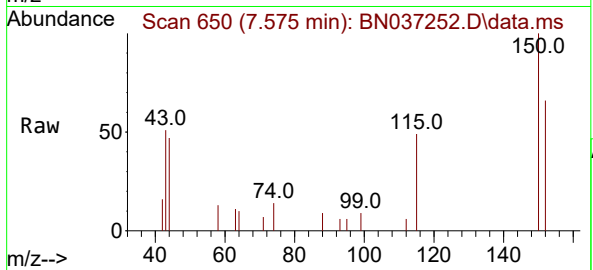
Quant Time: Jun 16 01:00:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



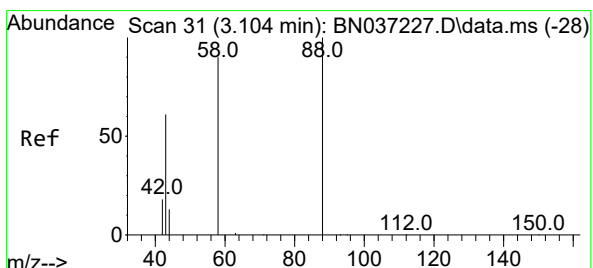
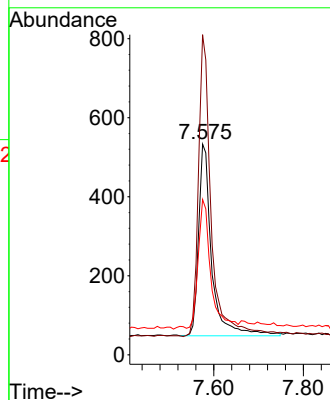
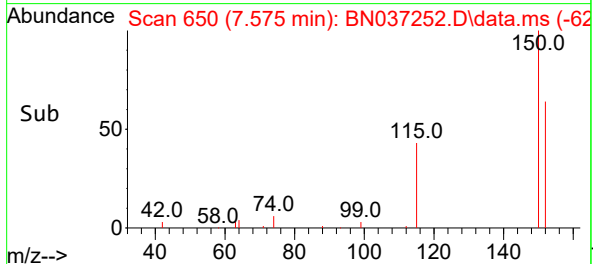


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

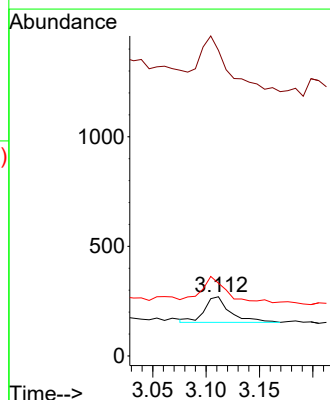
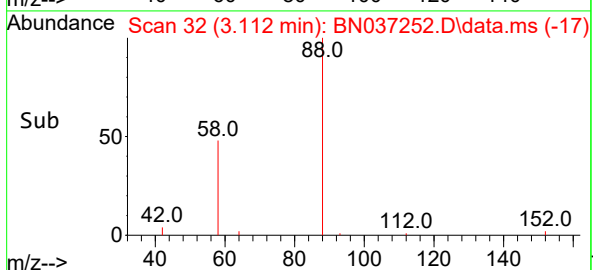
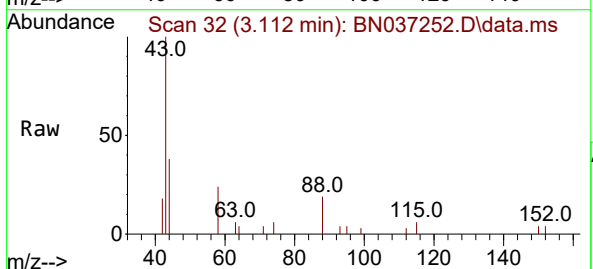


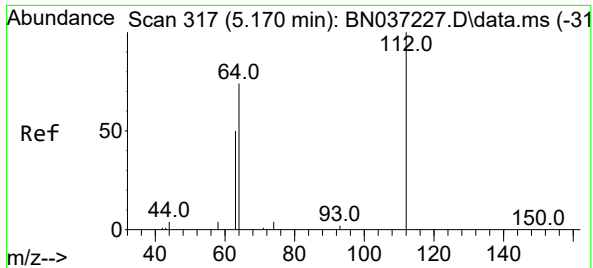
Tgt Ion:152 Resp: 993
Ion Ratio Lower Upper
152 100
150 152.0 125.2 187.8
115 73.7 58.4 87.6



#2
1,4-Dioxane
Concen: 0.145 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion: 88 Resp: 197
Ion Ratio Lower Upper
88 100
43 236.5 52.6 79.0#
58 90.9 73.5 110.3

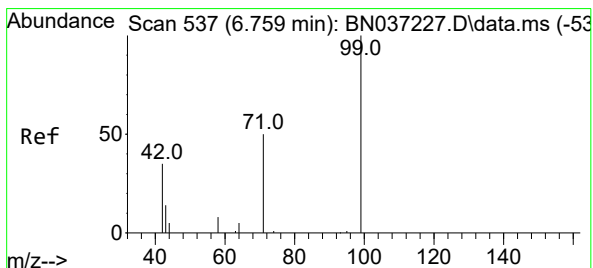
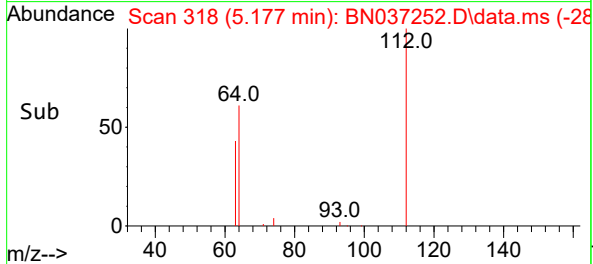
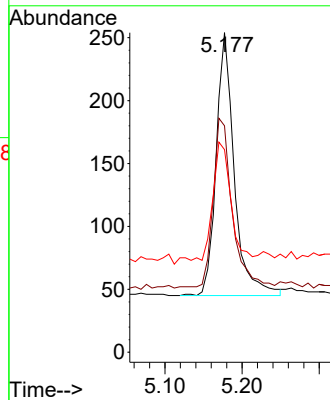
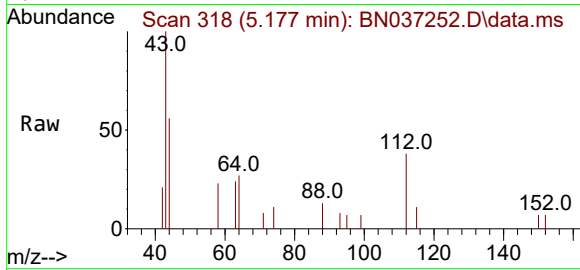




#4
2-Fluorophenol
Concen: 0.140 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

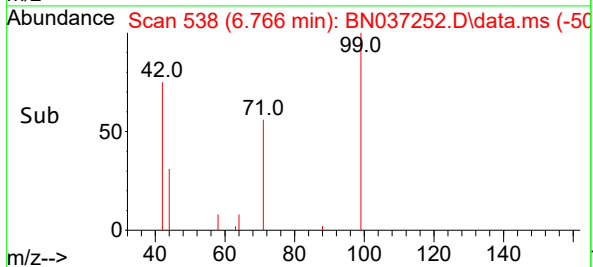
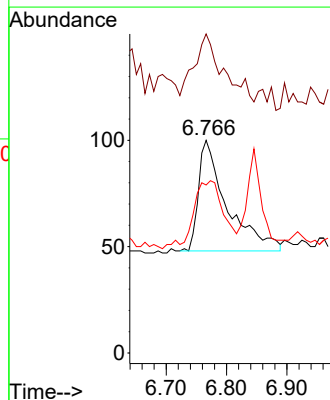
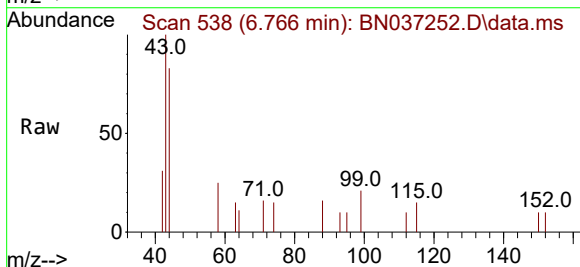
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

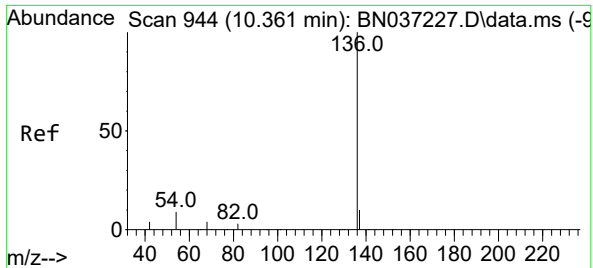
Tgt Ion:112 Resp: 342
Ion Ratio Lower Upper
112 100
64 66.1 57.2 85.8
63 43.6 39.8 59.6



#5
Phenol-d6
Concen: 0.066 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion: 99 Resp: 170
Ion Ratio Lower Upper
99 100
42 61.8 36.2 54.4#
71 65.3 42.4 63.6#

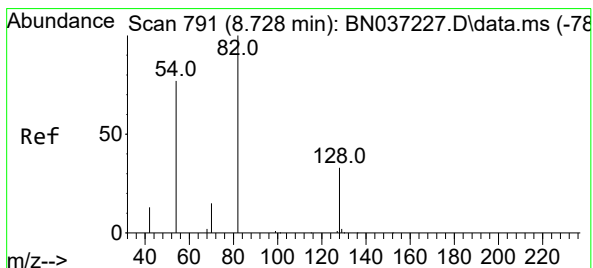
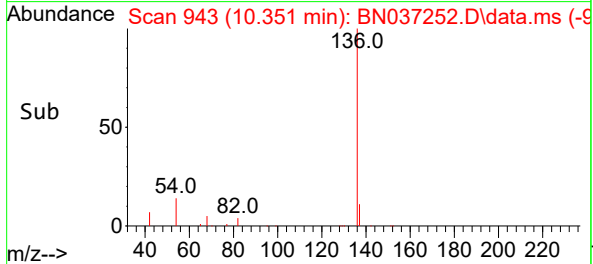
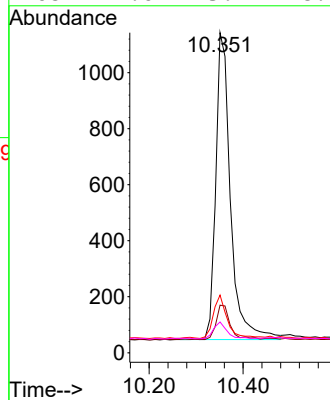
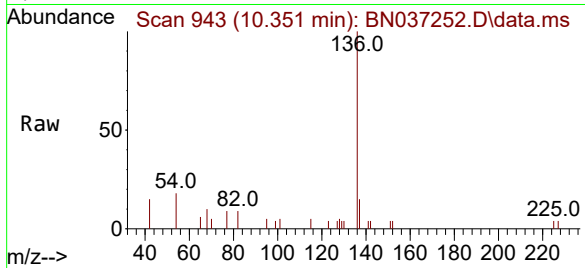




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

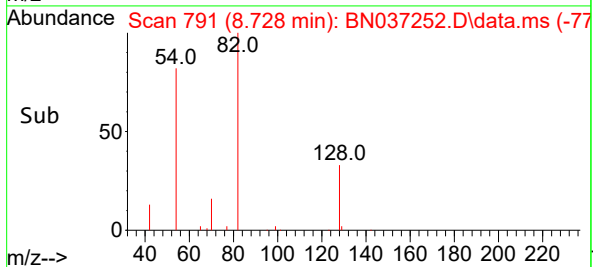
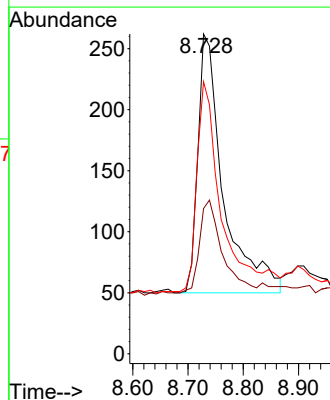
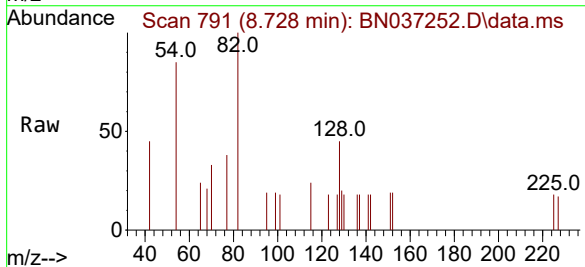
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

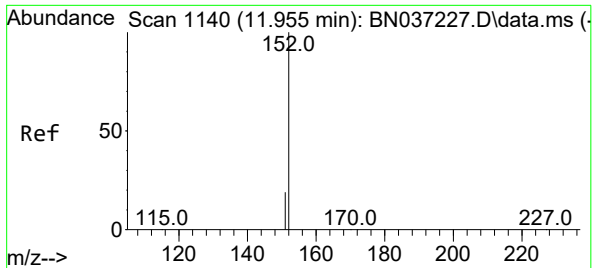
Tgt Ion:	136	Resp:	2388
Ion	Ratio	Lower	Upper
136	100		
137	14.9	10.6	15.8
54	18.0	9.2	13.8#
68	9.6	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:	82	Resp:	683
Ion	Ratio	Lower	Upper
82	100		
128	45.4	31.2	46.8
54	85.1	63.3	94.9

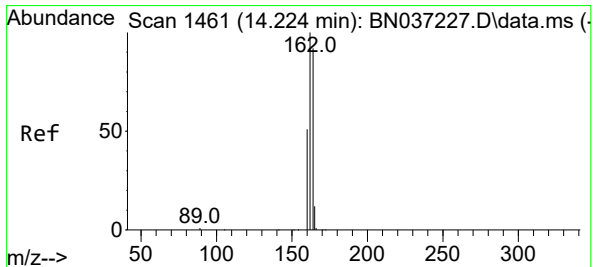
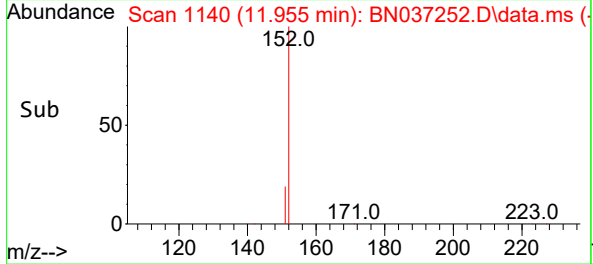
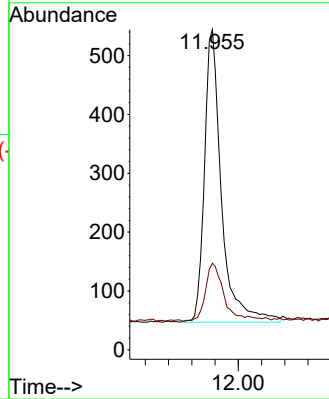
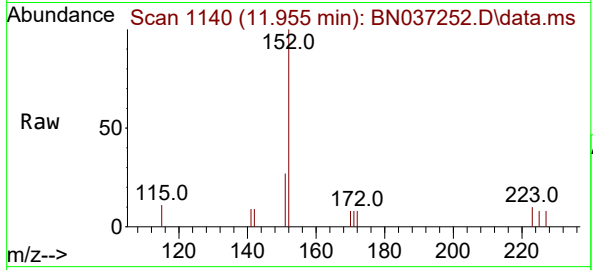




#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

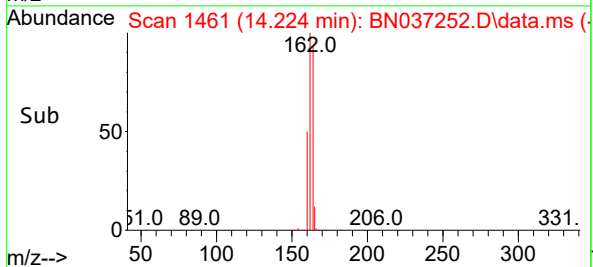
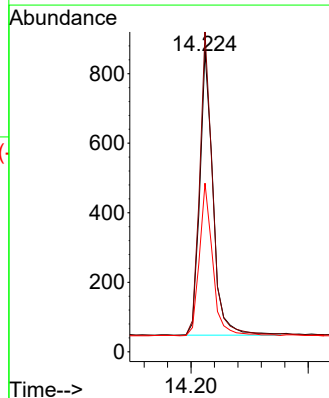
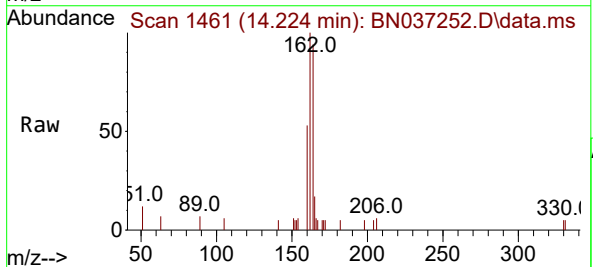
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

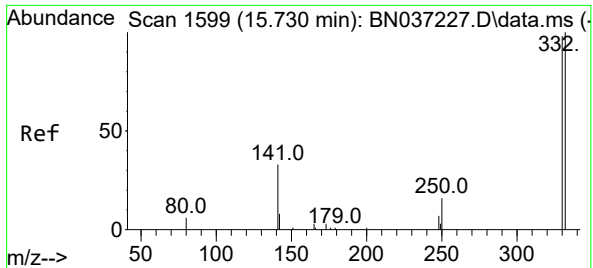
Tgt Ion:152 Resp: 1008
Ion Ratio Lower Upper
152 100
151 22.7 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:164 Resp: 1287
Ion Ratio Lower Upper
164 100
162 106.4 86.7 130.1
160 56.1 45.8 68.6

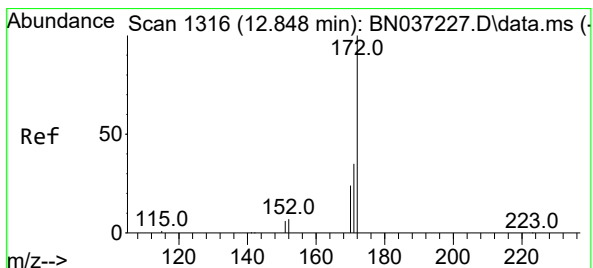
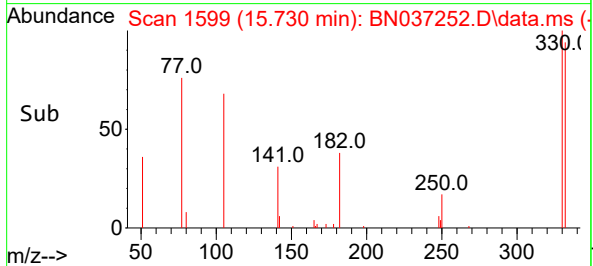
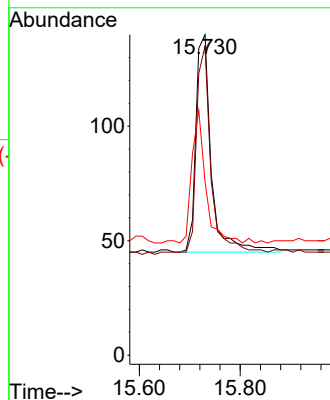
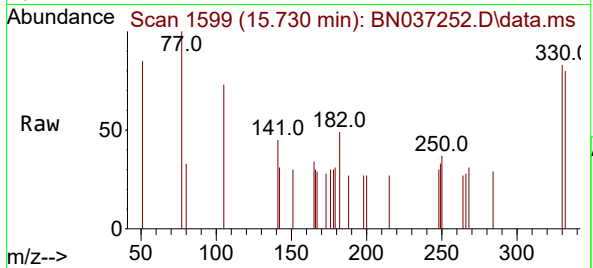




#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

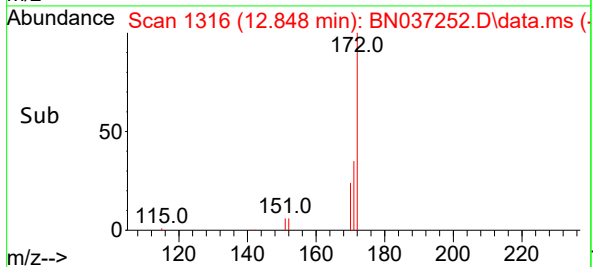
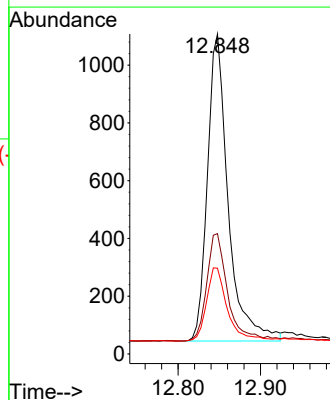
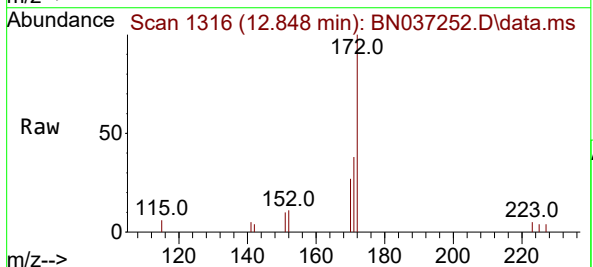
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

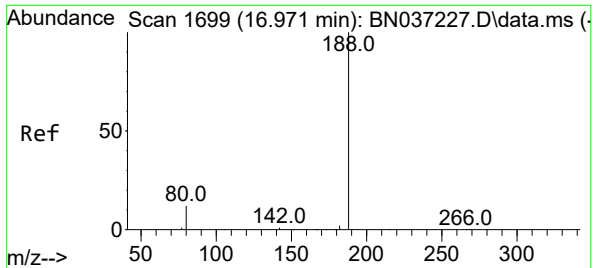
Tgt Ion:330 Resp: 204
Ion Ratio Lower Upper
330 100
332 86.3 74.9 112.3
141 56.9 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:172 Resp: 1863
Ion Ratio Lower Upper
172 100
171 37.6 29.8 44.8
170 26.8 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037252.D

Acq: 14 Jun 2025 07:09

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01S-20250609

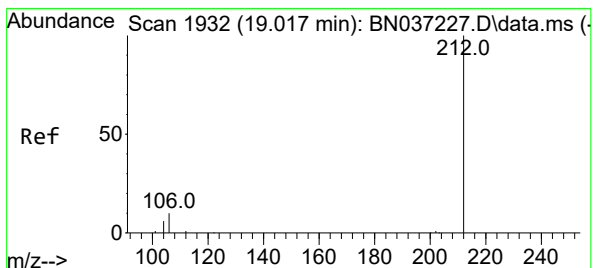
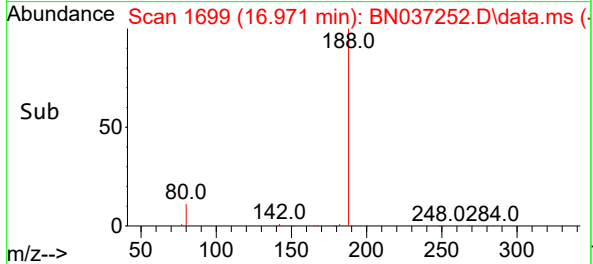
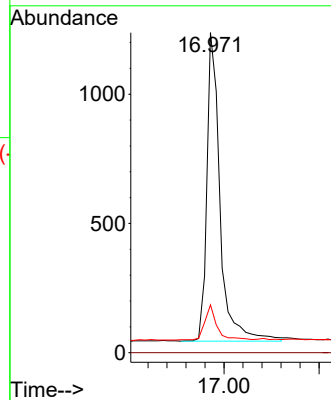
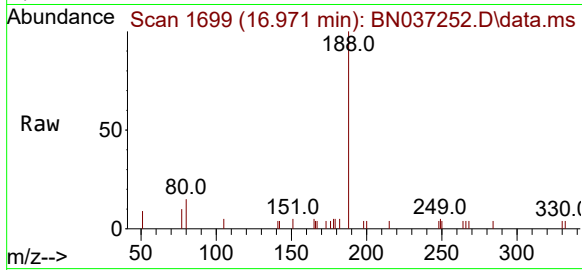
Tgt Ion:188 Resp: 2304

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.9 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.353 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037252.D

Acq: 14 Jun 2025 07:09

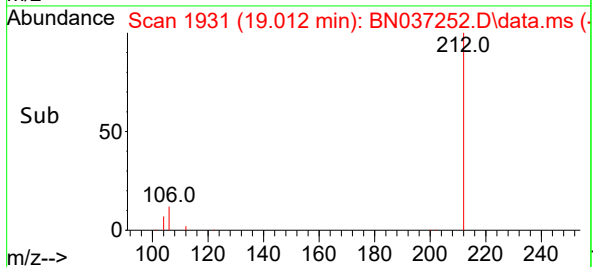
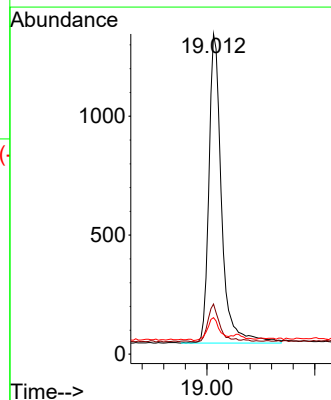
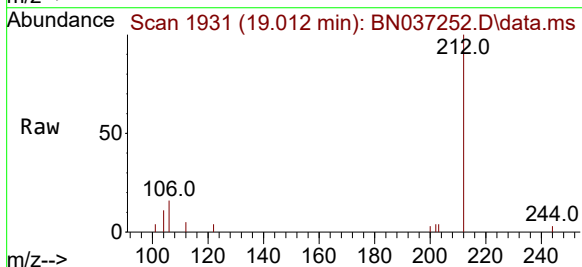
Tgt Ion:212 Resp: 2126

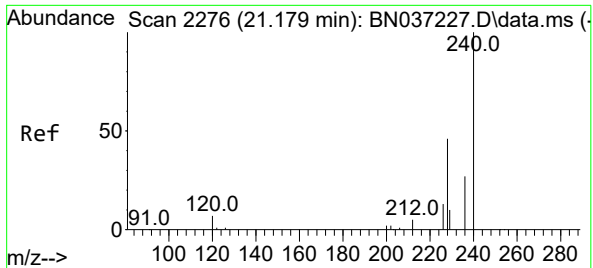
Ion Ratio Lower Upper

212 100

106 11.5 9.3 13.9

104 7.1 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037252.D

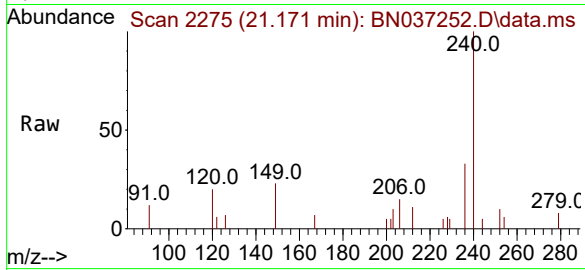
Acq: 14 Jun 2025 07:09

Instrument :

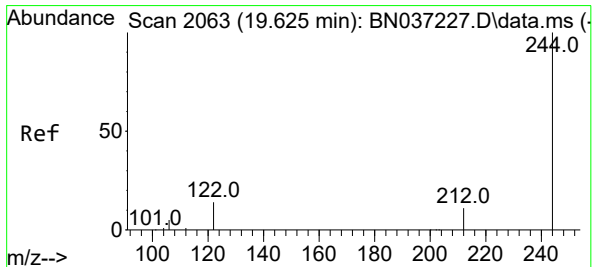
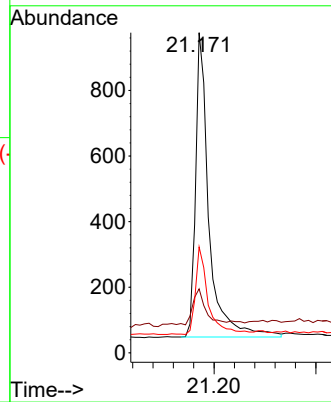
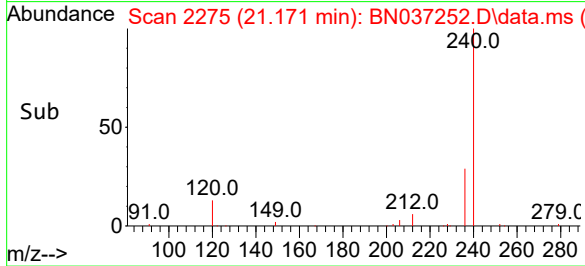
BNA_N

ClientSampleId :

RW10A-MW01S-20250609



Tgt Ion:	240	Resp:	1687
Ion Ratio	Lower	Upper	
240	100		
120	20.0	11.3	16.9#
236	33.1	24.4	36.6



#31

Terphenyl-d14

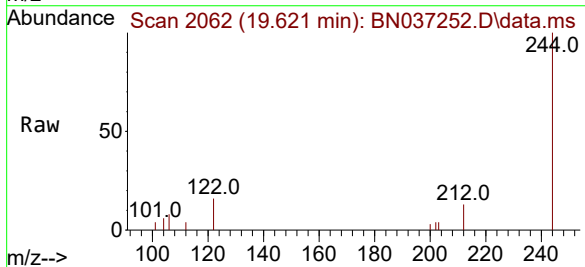
Concen: 0.542 ng

RT: 19.621 min Scan# 2062

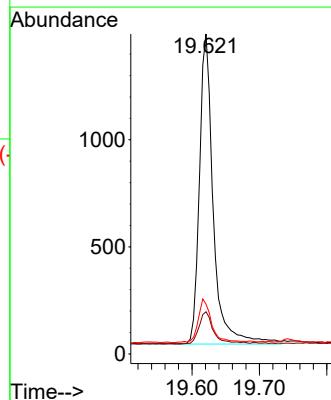
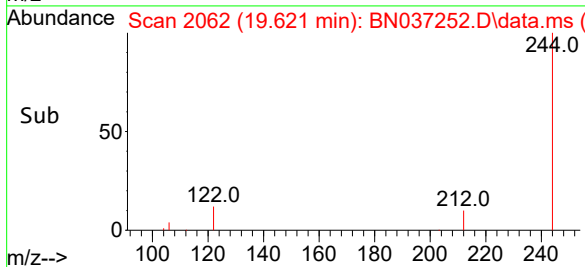
Delta R.T. -0.005 min

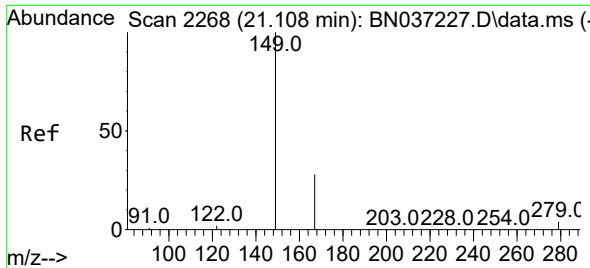
Lab File: BN037252.D

Acq: 14 Jun 2025 07:09



Tgt Ion:	244	Resp:	2066
Ion Ratio	Lower	Upper	
244	100		
212	13.2	12.2	18.2
122	15.5	14.3	21.5

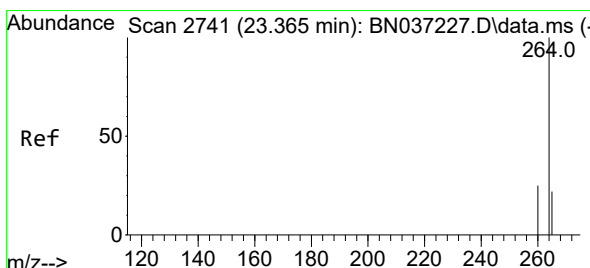
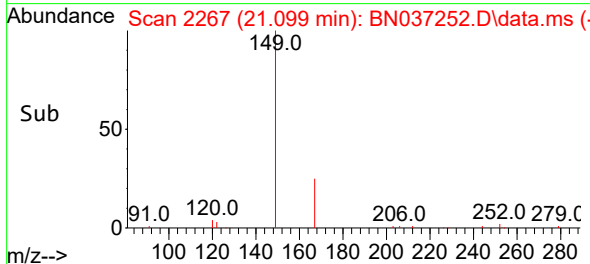
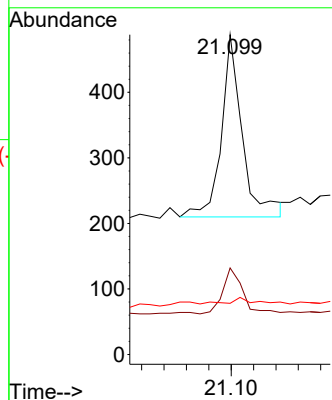
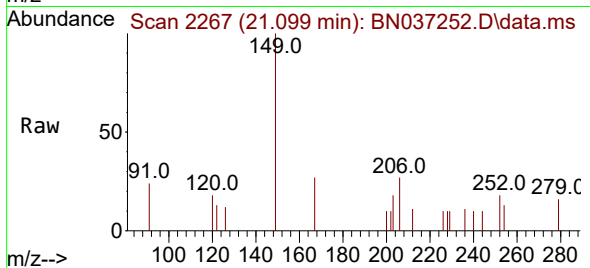




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.085 ng
RT: 21.099 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

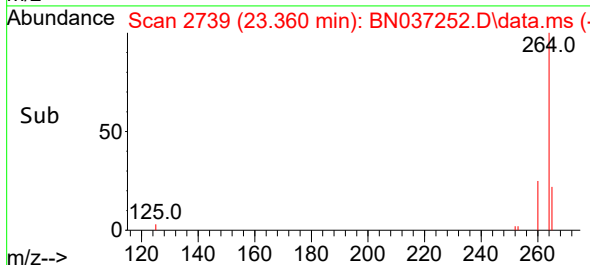
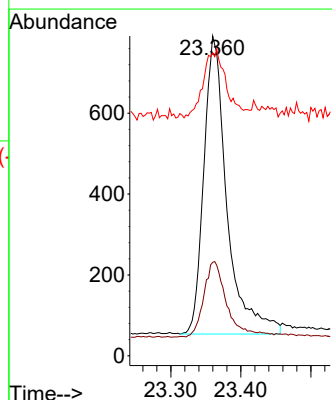
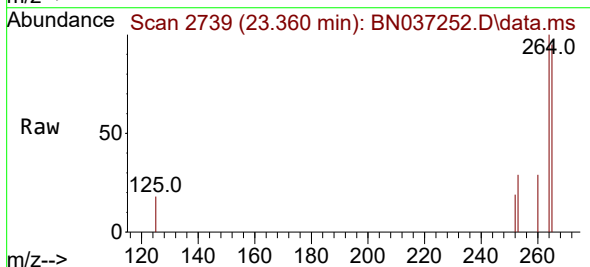
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01S-20250609

Tgt Ion:149 Resp: 362
Ion Ratio Lower Upper
149 100
167 24.6 21.3 31.9
279 3.9 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037252.D
Acq: 14 Jun 2025 07:09

Tgt Ion:264 Resp: 1690
Ion Ratio Lower Upper
264 100
260 29.2 22.8 34.2
265 94.7 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW10A-MW01I-20250609	SDG No.:	Q2299
Lab Sample ID:	Q2299-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 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
BN037253.D	1	06/13/25 08:03	06/14/25 07:46	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	968	7.575				
1146-65-2	Naphthalene-d8	2340	10.362				
15067-26-2	Acenaphthene-d10	1250	14.224				
1517-22-2	Phenanthrene-d10	2100	16.971				
1719-03-5	Chrysene-d12	1600	21.18				
1520-96-3	Perylene-d12	1650	23.363				

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\BN061325\
Data File : BN037253.D
Acq On : 14 Jun 2025 07:46
Operator : RC/JU
Sample : Q2299-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

Quant Time: Jun 16 01:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

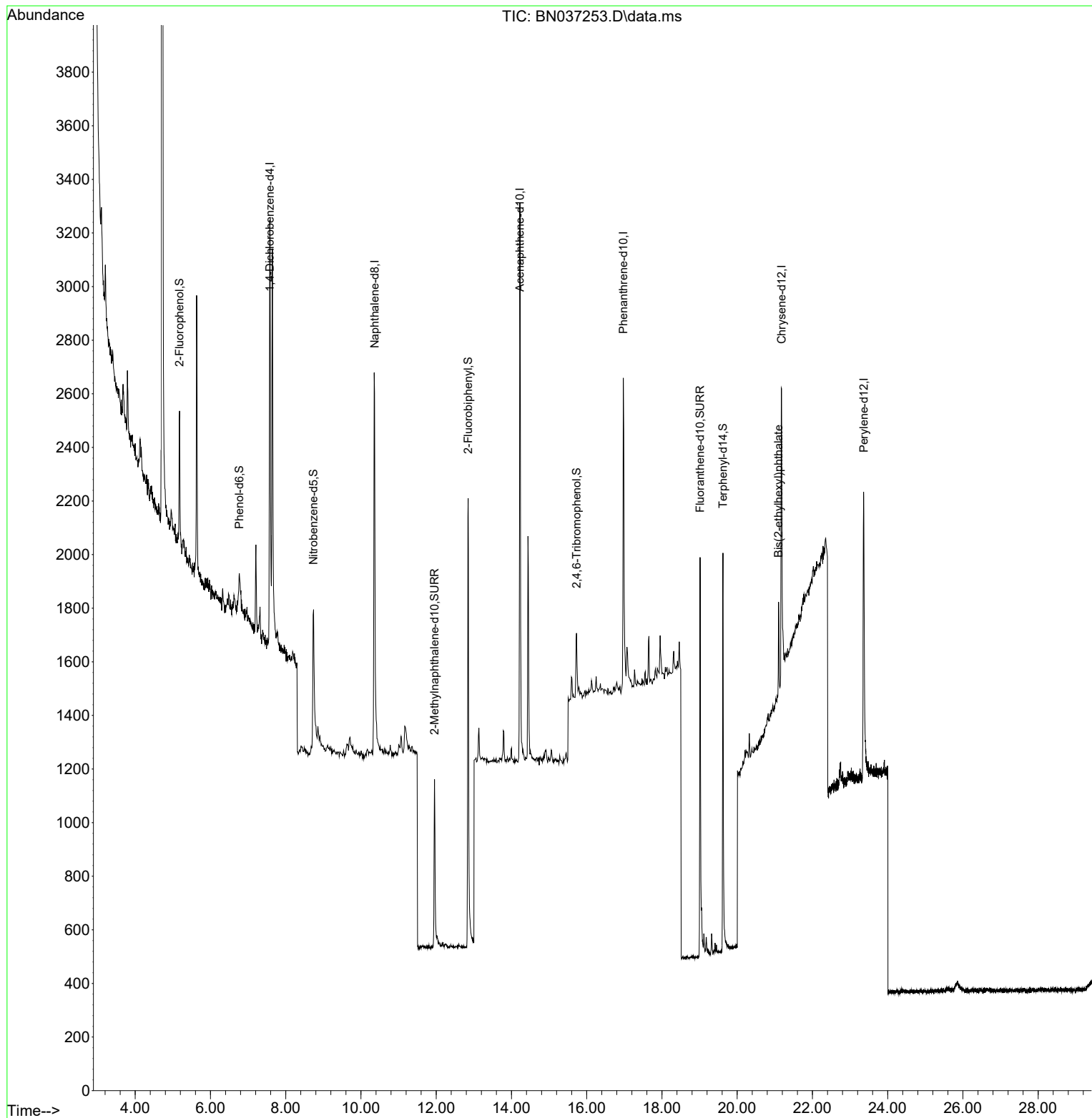
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	968	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2339	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1252	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2096	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1604	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1645	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	381	0.160	ng	0.00
5) Phenol-d6	6.766	99	175	0.070	ng	0.00
8) Nitrobenzene-d5	8.739	82	747	0.323	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1044	0.333	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	185	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1914	0.364	ng	0.00
27) Fluoranthene-d10	19.012	212	2031	0.370	ng	0.00
31) Terphenyl-d14	19.621	244	1700	0.469	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	359	0.089	ng	# 97

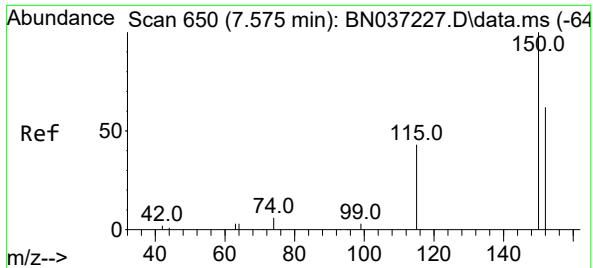
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037253.D
Acq On : 14 Jun 2025 07:46
Operator : RC/JU
Sample : Q2299-10
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

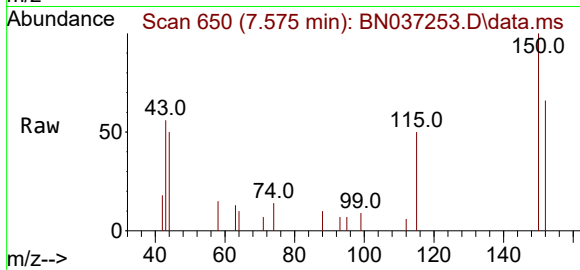
Quant Time: Jun 16 01:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



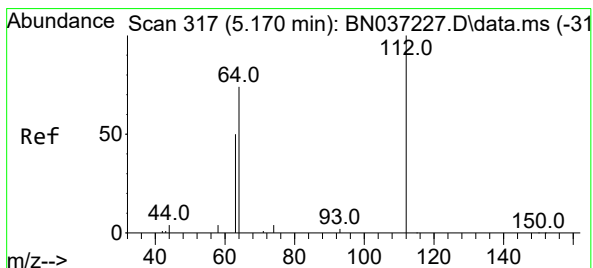
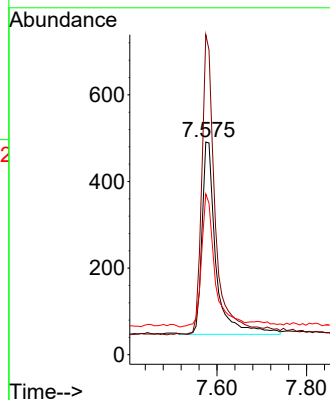
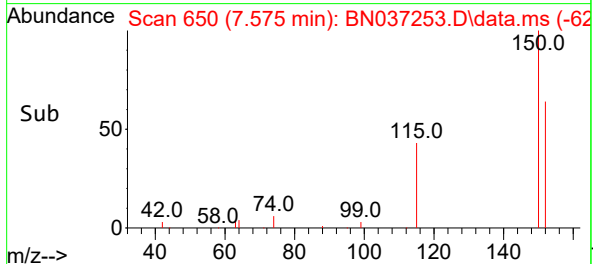


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

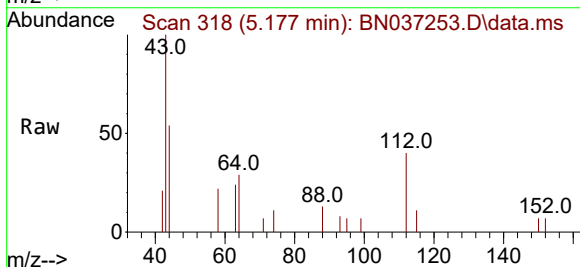
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609



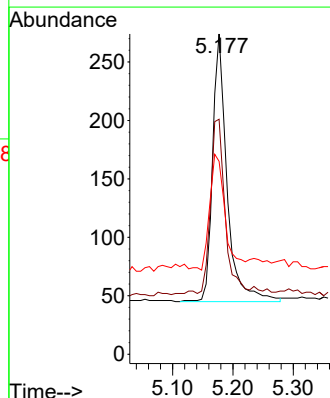
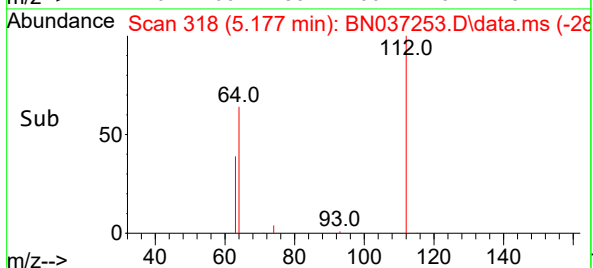
Tgt Ion:152 Resp: 968
Ion Ratio Lower Upper
152 100
150 150.5 125.2 187.8
115 75.6 58.4 87.6

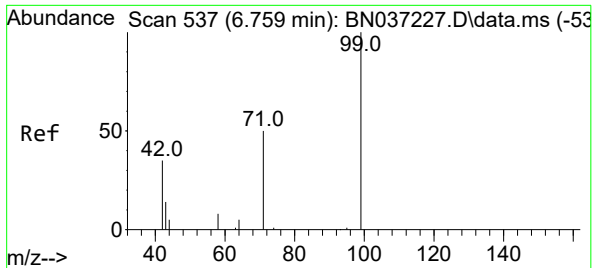


#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46



Tgt Ion:112 Resp: 381
Ion Ratio Lower Upper
112 100
64 66.9 57.2 85.8
63 43.0 39.8 59.6

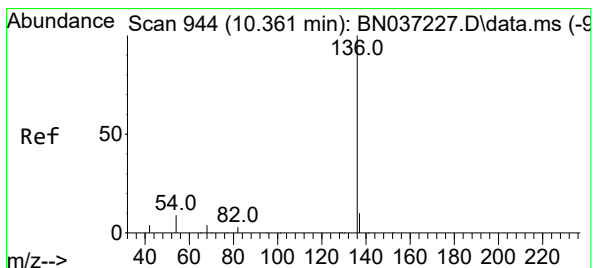
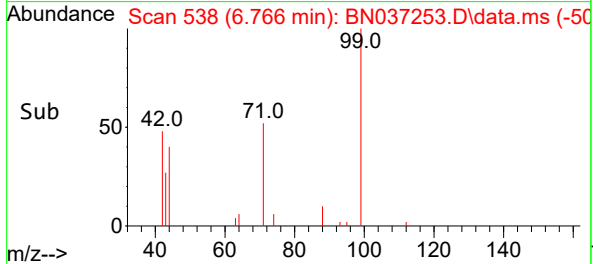
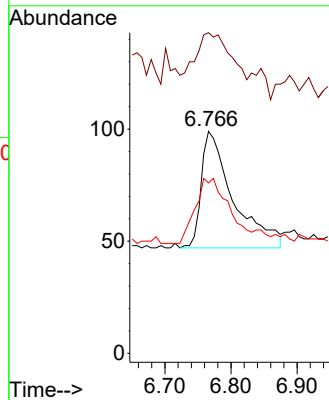
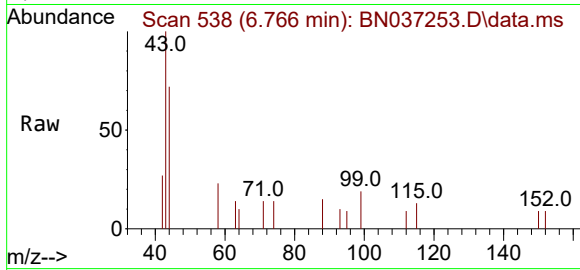




#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

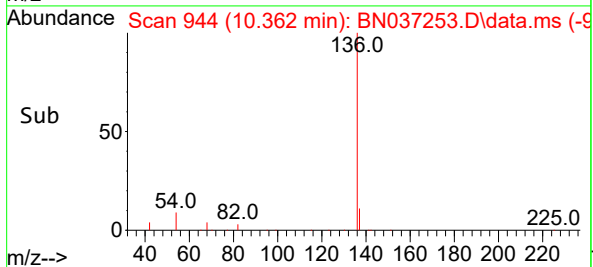
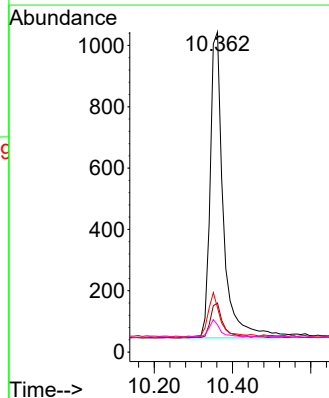
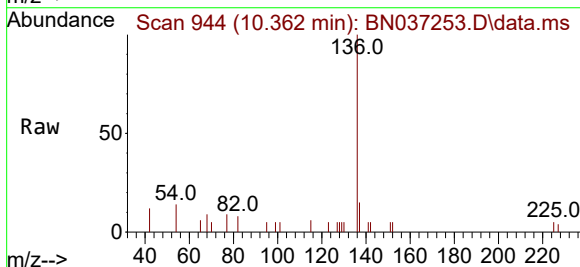
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

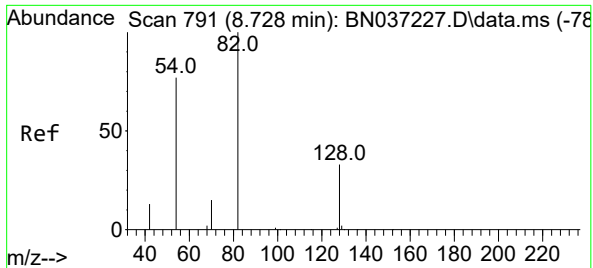
Tgt Ion	Ratio	Lower	Upper
99	100		
42	43.4	36.2	54.4
71	58.9	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.3	10.6	15.8
54	13.9	9.2	13.8#
68	8.5	5.4	8.0#

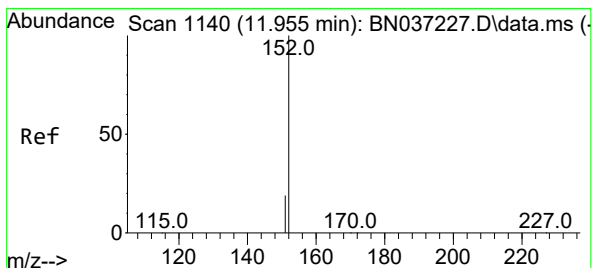
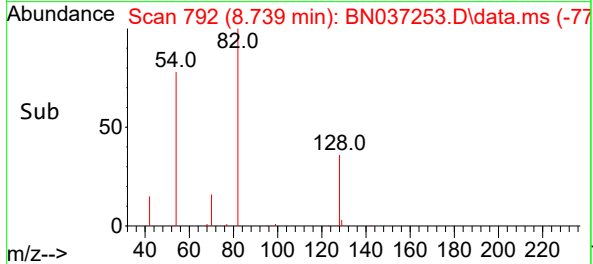
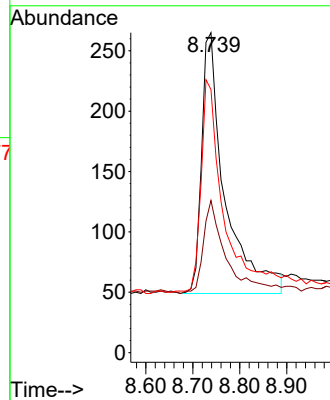
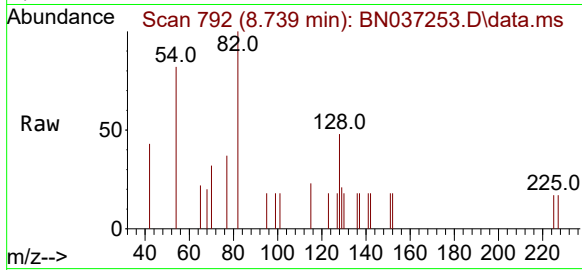




#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

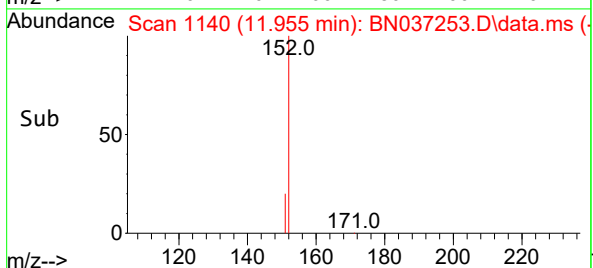
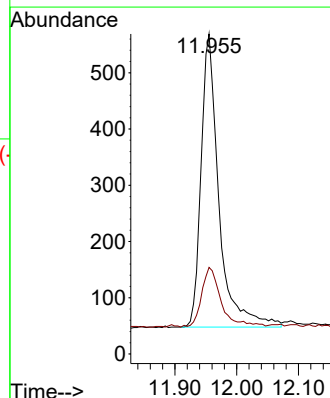
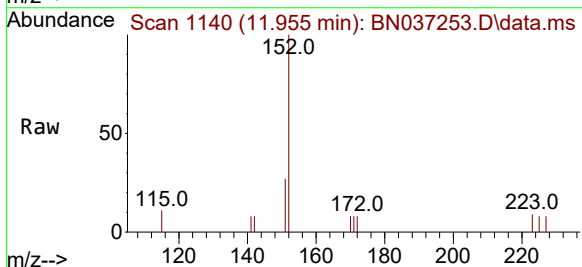
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01-20250609

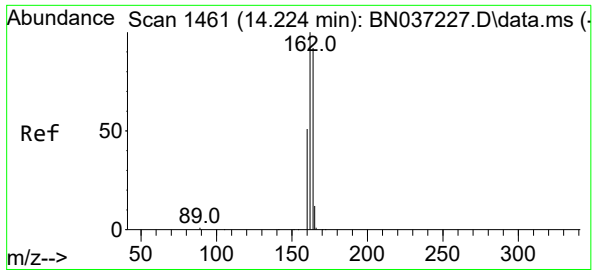
Tgt Ion: 82 Resp: 747
Ion Ratio Lower Upper
82 100
128 47.5 31.2 46.8#
54 82.3 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.333 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion: 152 Resp: 1044
Ion Ratio Lower Upper
152 100
151 22.3 17.9 26.9

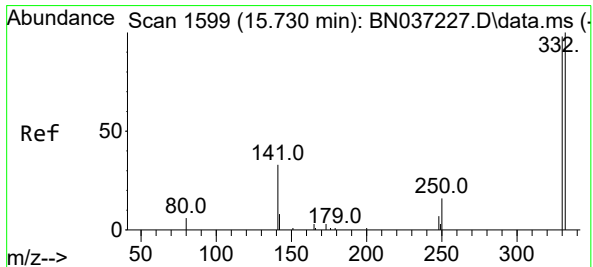
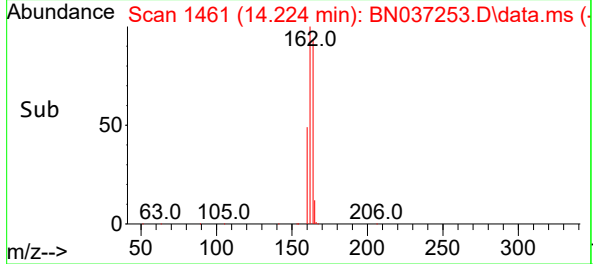
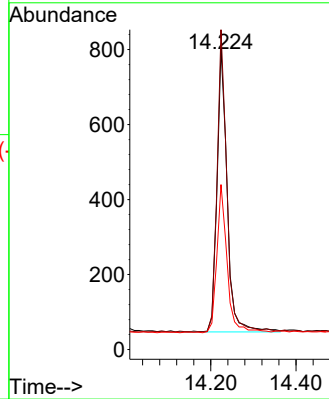
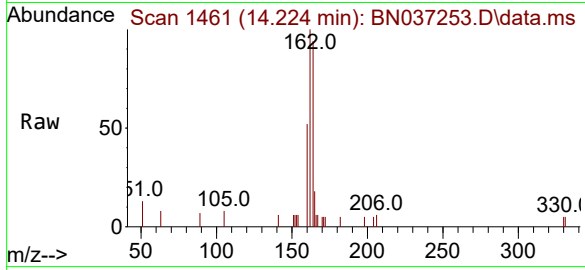




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

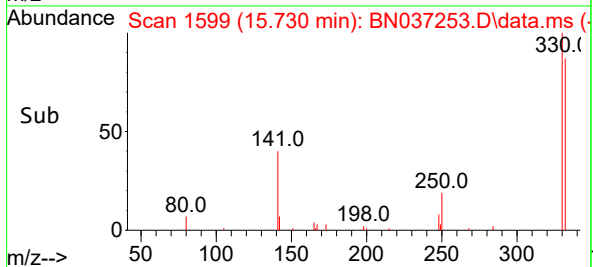
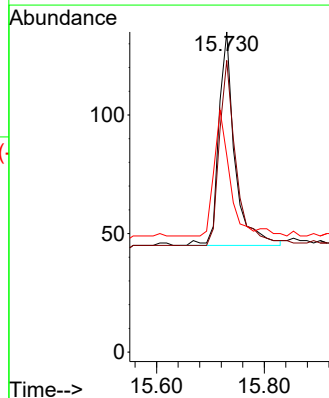
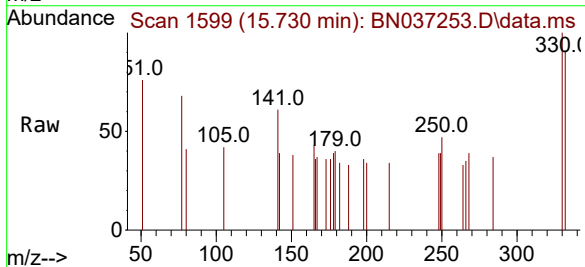
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

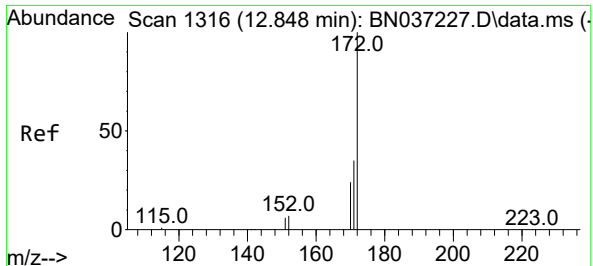
Tgt Ion:164 Resp: 1252
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 54.8 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

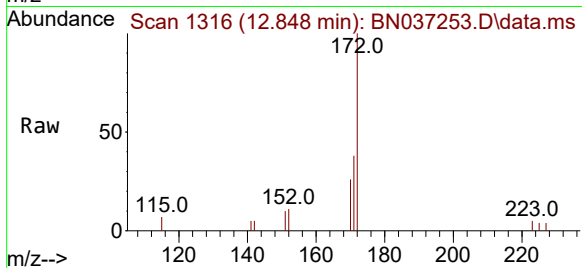
Tgt Ion:330 Resp: 185
Ion Ratio Lower Upper
330 100
332 92.4 74.9 112.3
141 59.5 45.1 67.7



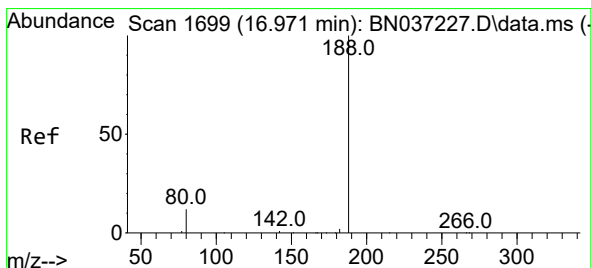
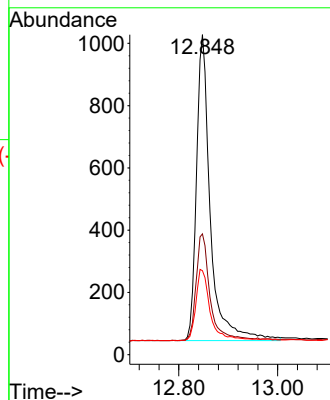
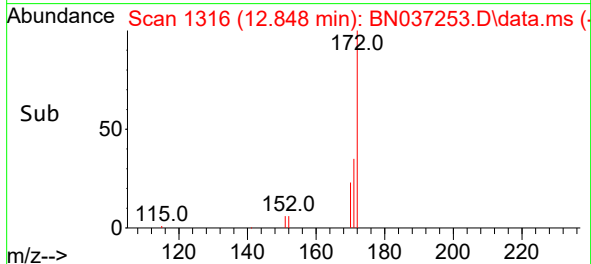


#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

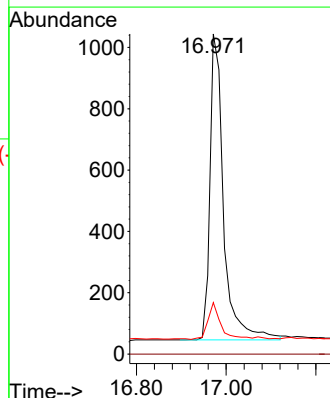
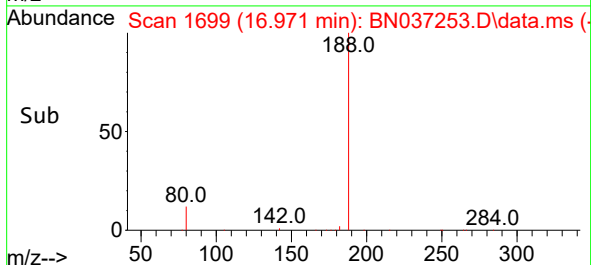
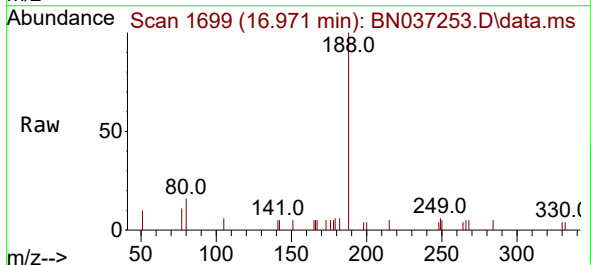


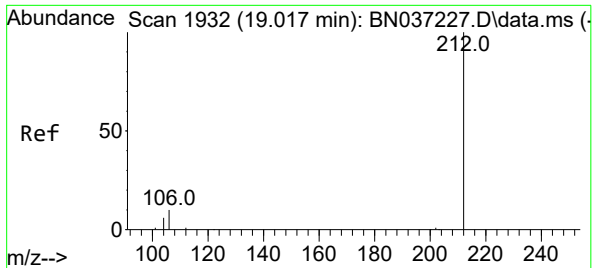
Tgt Ion:172 Resp: 1914
Ion Ratio Lower Upper
172 100
171 37.7 29.8 44.8
170 26.3 21.1 31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:188 Resp: 2096
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.370 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037253.D

Acq: 14 Jun 2025 07:46

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01I-20250609

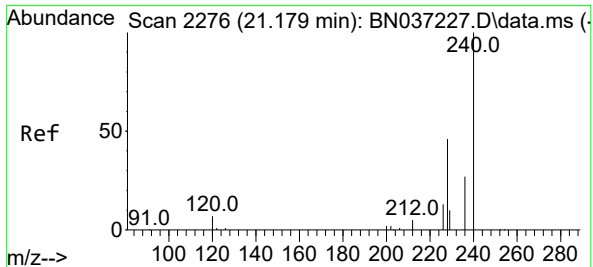
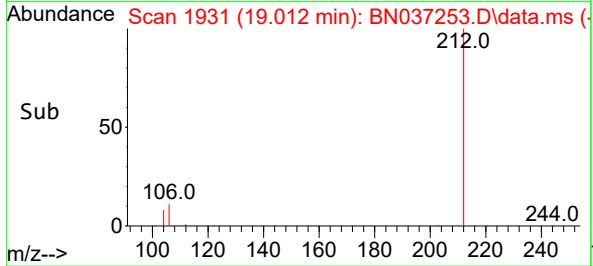
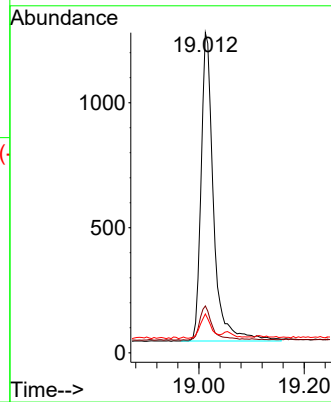
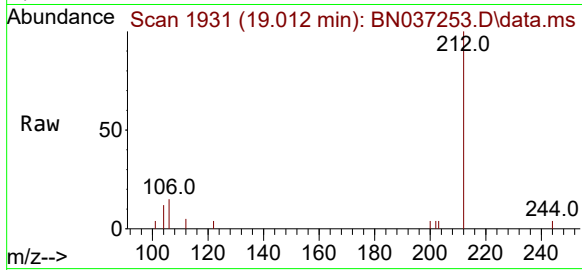
Tgt Ion:212 Resp: 2031

Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 6.8 5.7 8.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037253.D

Acq: 14 Jun 2025 07:46

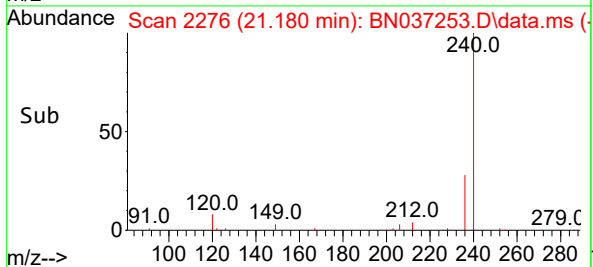
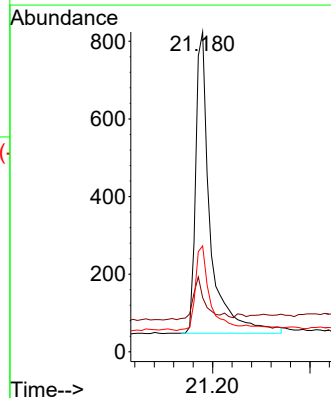
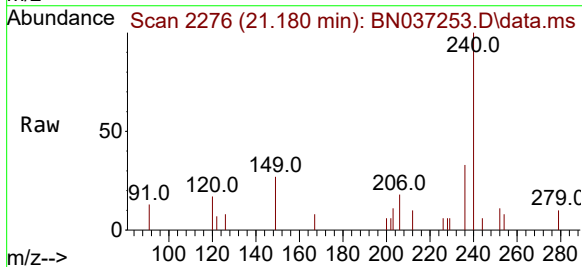
Tgt Ion:240 Resp: 1604

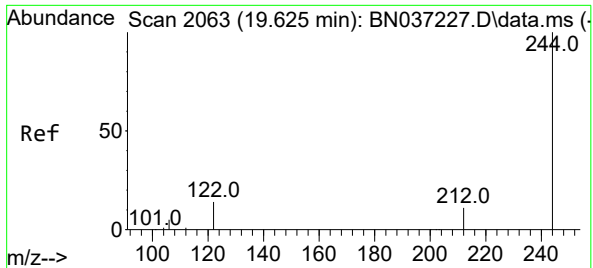
Ion Ratio Lower Upper

240 100

120 17.0 11.3 16.9

236 33.1 24.4 36.6

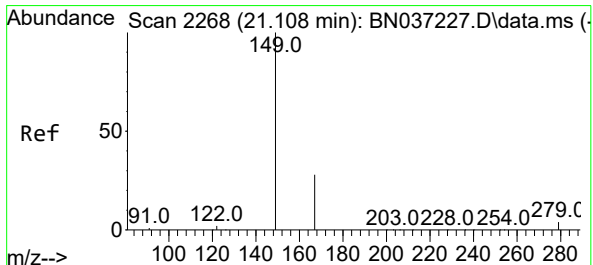
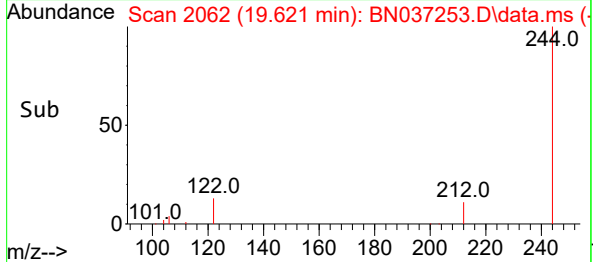
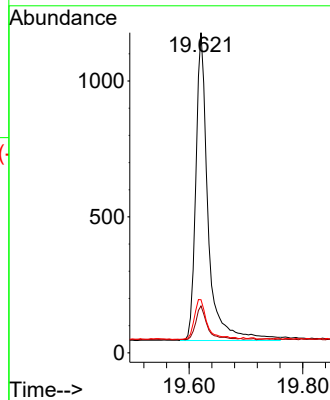
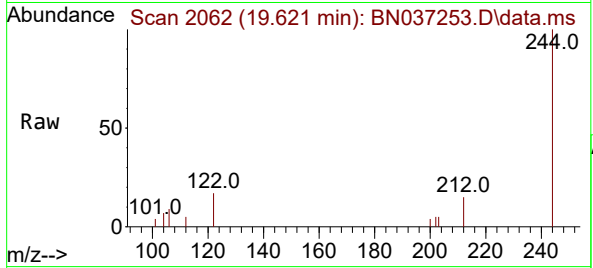




#31
Terphenyl-d14
Concen: 0.469 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

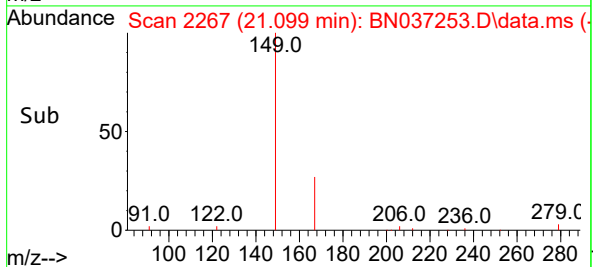
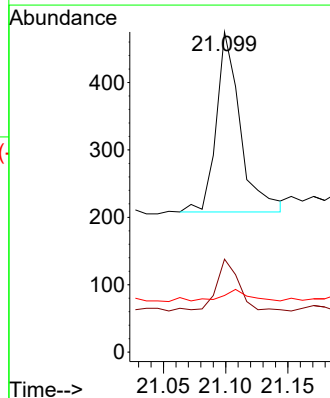
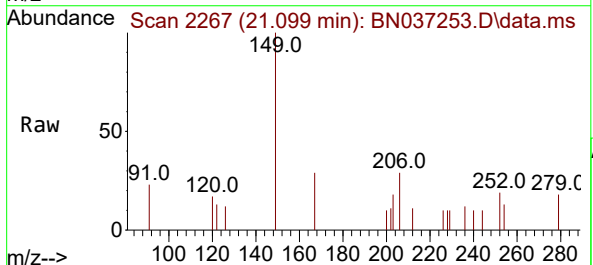
Instrument :
BNA_N
ClientSampleId :
RW10A-MW01I-20250609

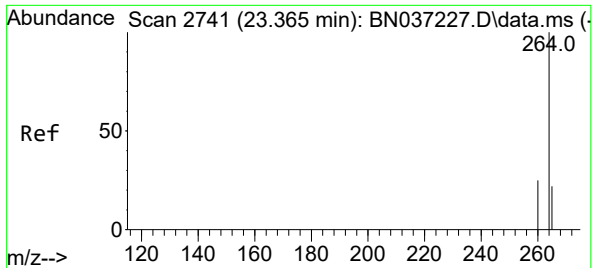
Tgt Ion:244 Resp: 1700
Ion Ratio Lower Upper
244 100
212 14.6 12.2 18.2
122 16.6 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037253.D
Acq: 14 Jun 2025 07:46

Tgt Ion:149 Resp: 359
Ion Ratio Lower Upper
149 100
167 27.6 21.3 31.9
279 7.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037253.D

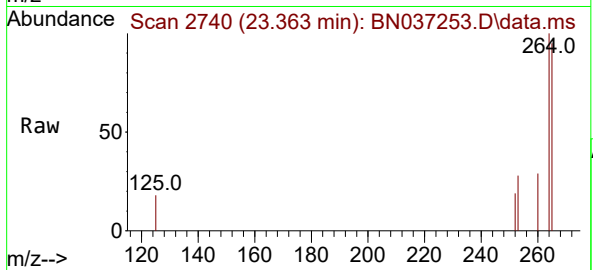
Acq: 14 Jun 2025 07:46

Instrument :

BNA_N

ClientSampleId :

RW10A-MW01I-20250609



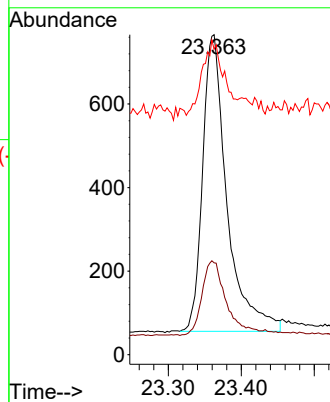
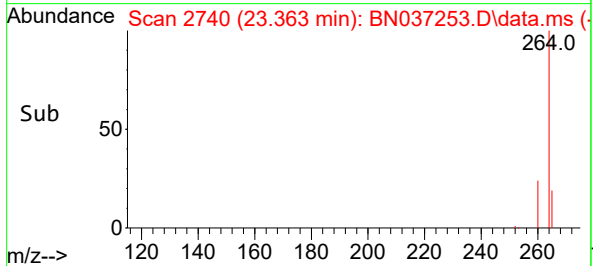
Tgt Ion:264 Resp: 1645

Ion Ratio Lower Upper

264 100

260 28.7 22.8 34.2

265 95.4 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT158I1-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-11	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
BN037254.D	1	06/13/25 08:03	06/14/25 08:22	PB168458

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		62%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	883		7.582			
1146-65-2	Naphthalene-d8	2220		10.361			
15067-26-2	Acenaphthene-d10	1190		14.224			
1517-22-2	Phenanthrene-d10	1990		16.971			
1719-03-5	Chrysene-d12	1560		21.18			
1520-96-3	Perylene-d12	1570		23.363			

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\BN061325\
 Data File : BN037254.D
 Acq On : 14 Jun 2025 08:22
 Operator : RC/JU
 Sample : Q2299-11
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT15811-20250610

Quant Time: Jun 16 01:01:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

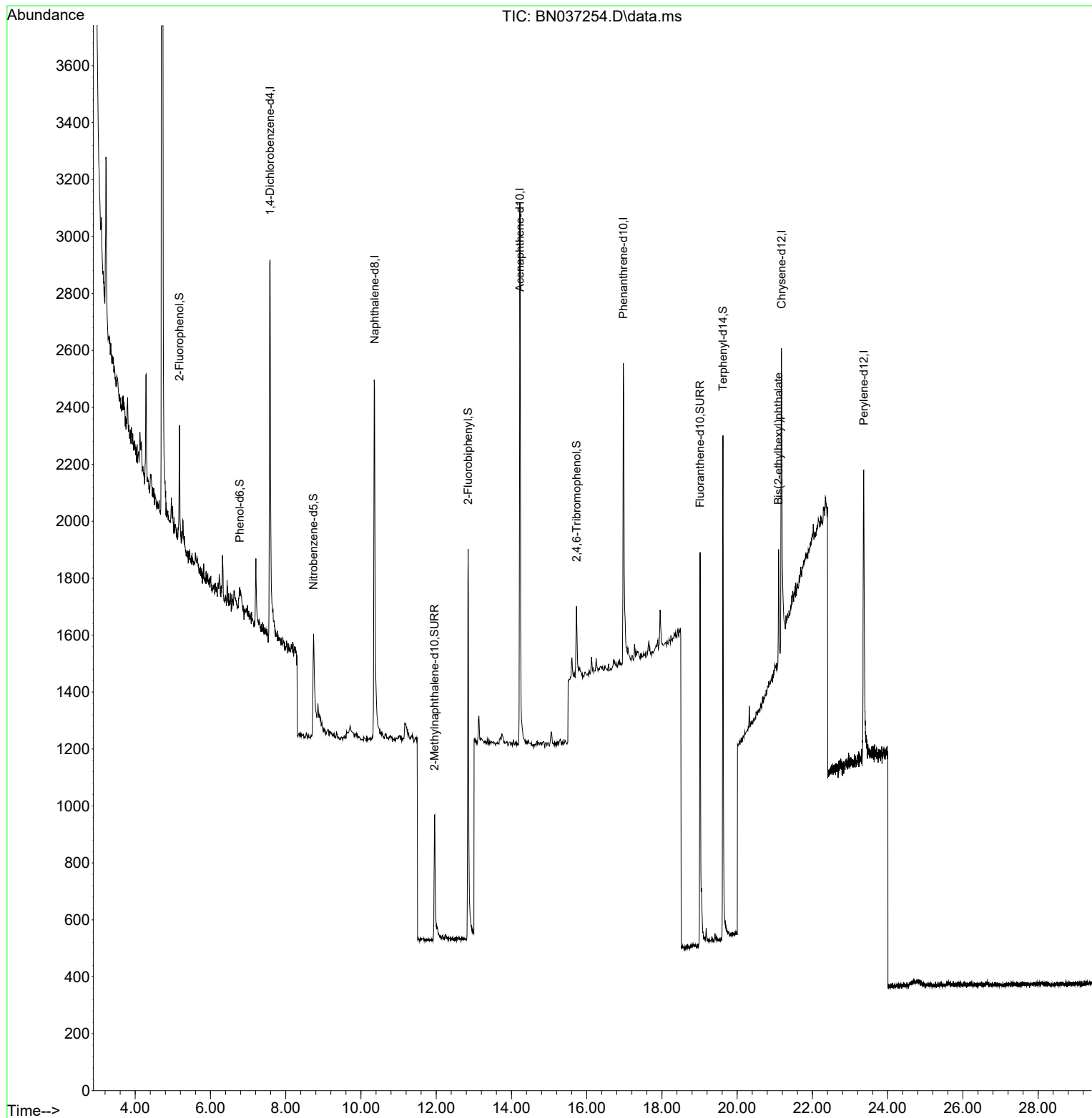
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	883	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2223	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1185	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1991	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1557	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1567	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	276	0.127	ng	0.00
5) Phenol-d6	6.780	99	134	0.059	ng	0.02
8) Nitrobenzene-d5	8.739	82	545	0.248	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	873	0.293	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	179	0.364	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1556	0.312	ng	0.00
27) Fluoranthene-d10	19.012	212	1903	0.365	ng	0.00
31) Terphenyl-d14	19.621	244	2004	0.569	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	378	0.097	ng	# 92

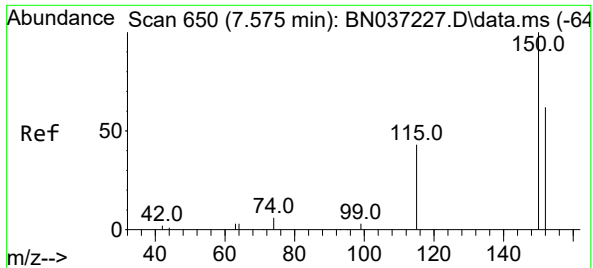
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037254.D
Acq On : 14 Jun 2025 08:22
Operator : RC/JU
Sample : Q2299-11
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

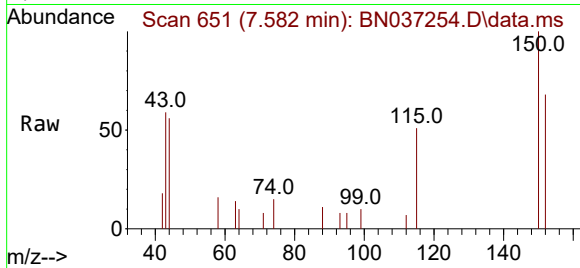
Quant Time: Jun 16 01:01:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



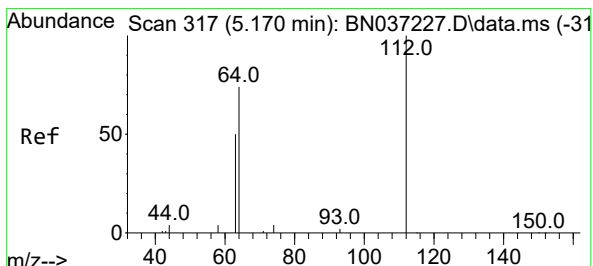
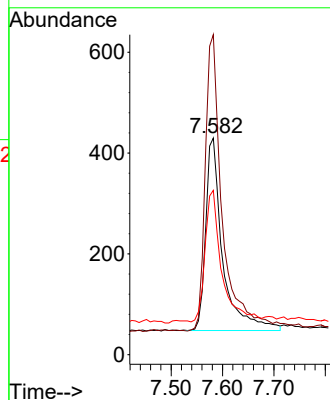
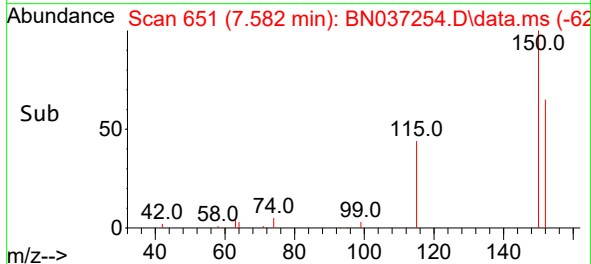


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 611
Delta R.T. 0.007 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

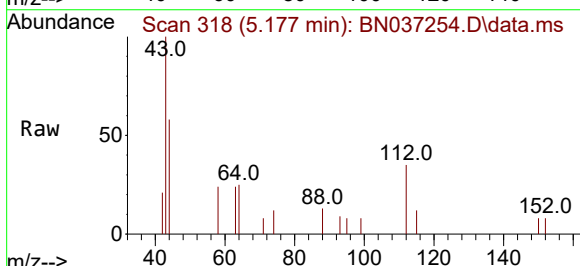
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610



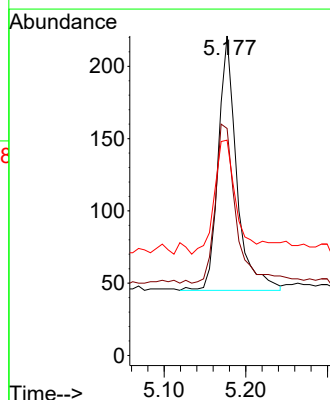
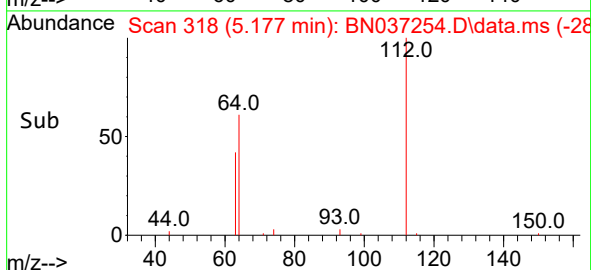
Tgt Ion:152 Resp: 883
Ion Ratio Lower Upper
152 100
150 147.7 125.2 187.8
115 75.8 58.4 87.6

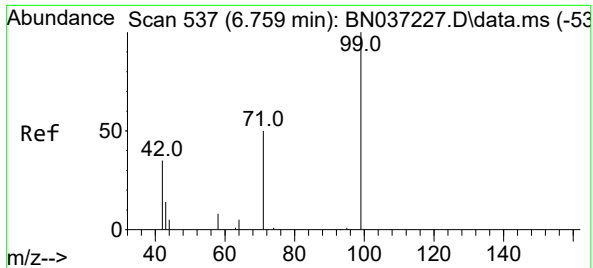


#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22



Tgt Ion:112 Resp: 276
Ion Ratio Lower Upper
112 100
64 71.4 57.2 85.8
63 51.8 39.8 59.6

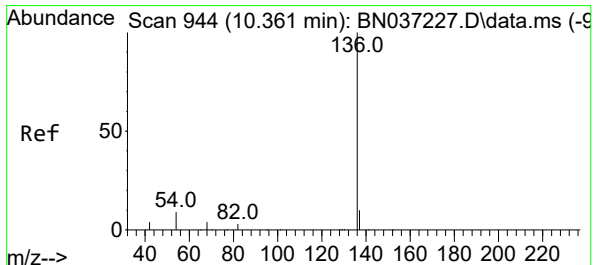
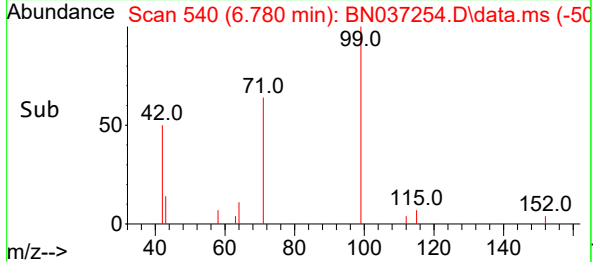
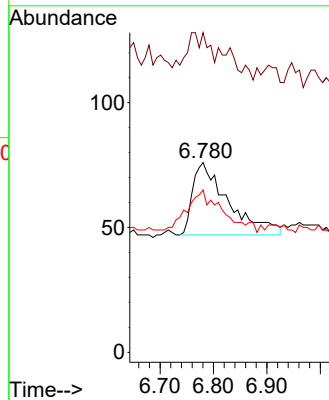
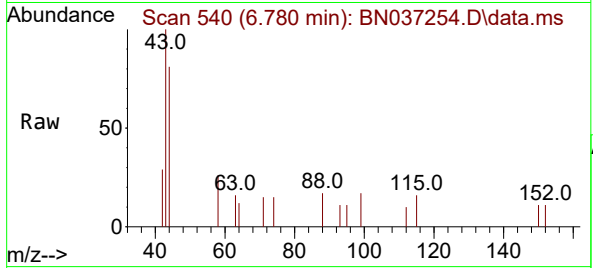




#5
Phenol-d6
Concen: 0.059 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.022 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

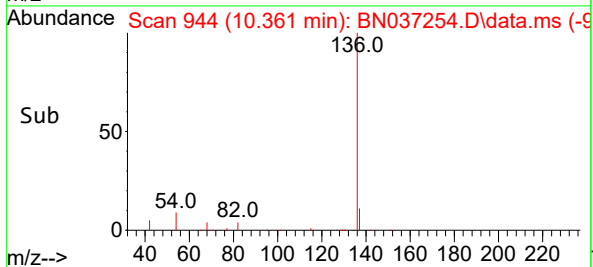
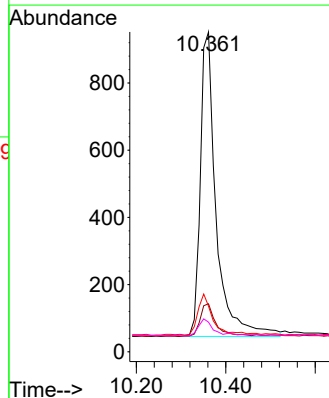
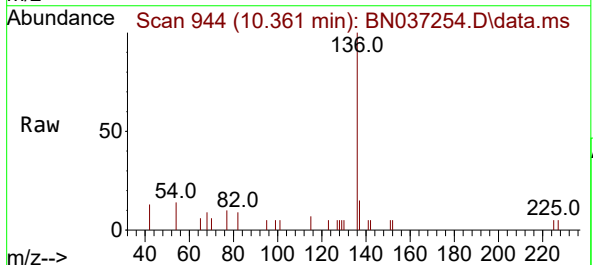
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

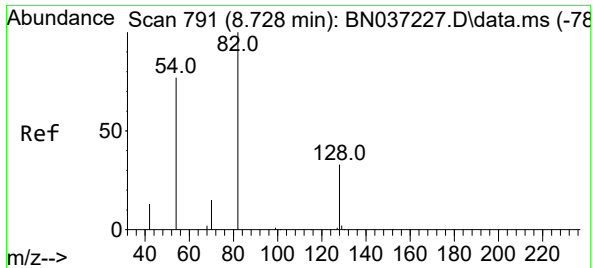
Tgt Ion	Ratio	Lower	Upper
99	100		
42	0.0	36.2	54.4#
71	59.0	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.3	9.2	13.8#
68	9.2	5.4	8.0#

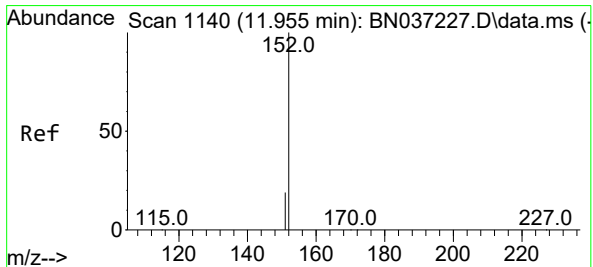
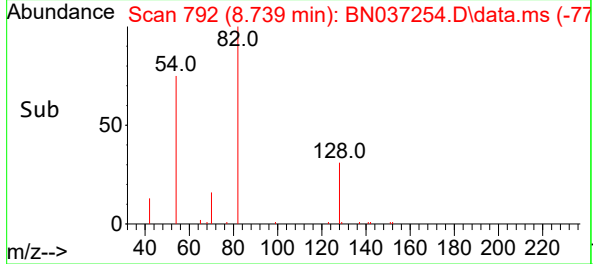
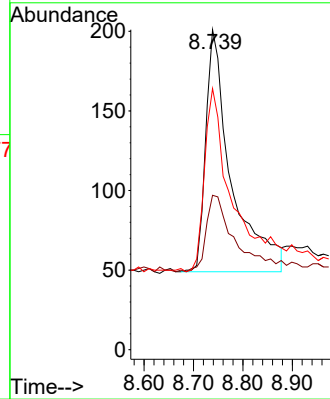
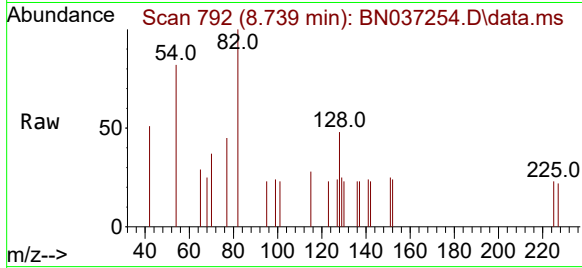




#8
Nitrobenzene-d5
Concen: 0.248 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

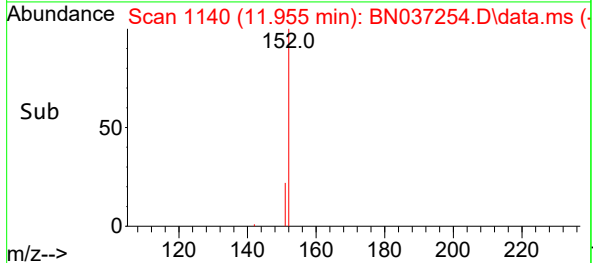
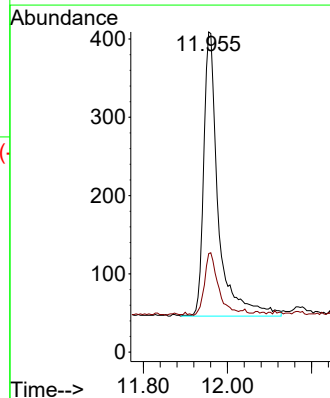
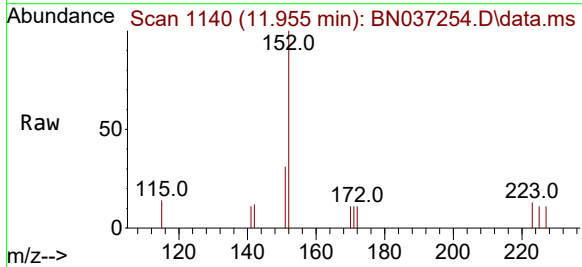
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

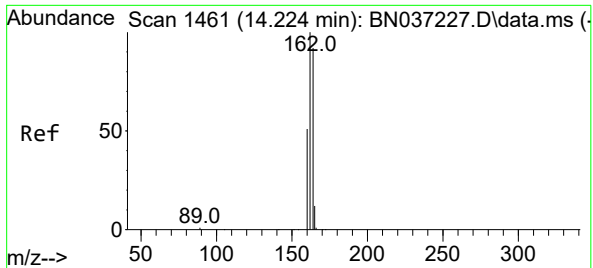
Tgt Ion	82	Resp:	545
Ion Ratio	Lower	Upper	
82	100		
128	48.3	31.2	46.8#
54	81.6	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion	152	Resp:	873
Ion Ratio	Lower	Upper	
152	100		
151	21.1	17.9	26.9

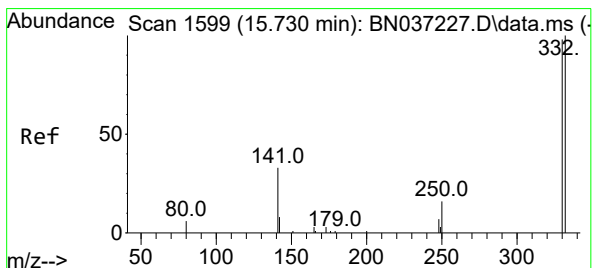
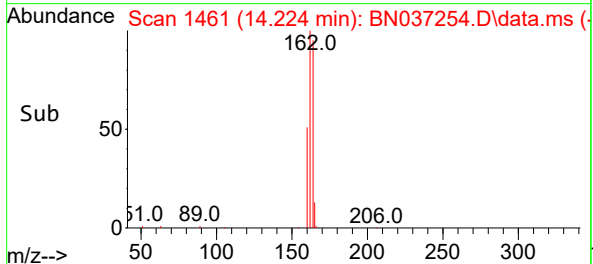
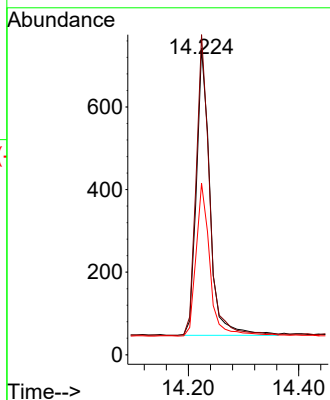
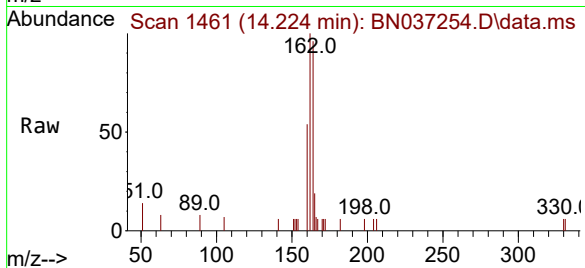




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

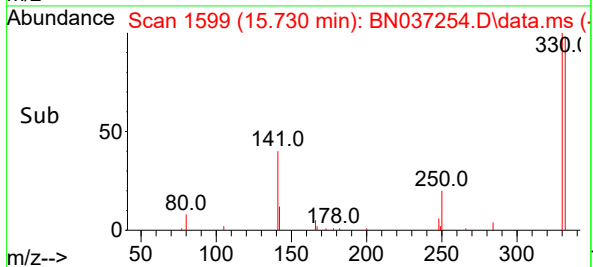
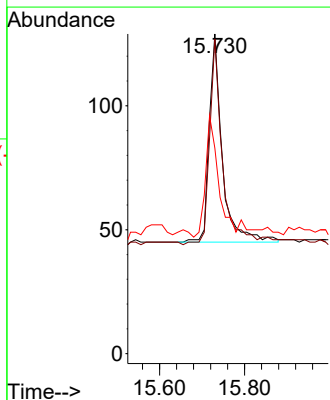
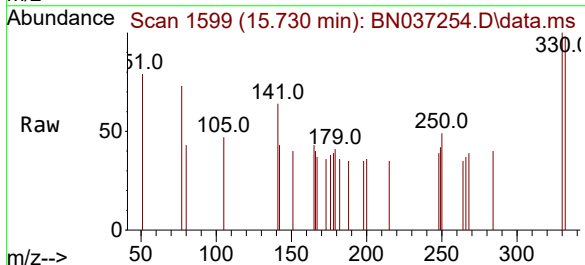
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

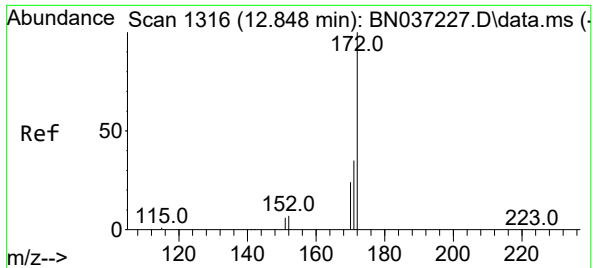
Tgt Ion:164 Resp: 1185
Ion Ratio Lower Upper
164 100
162 104.3 86.7 130.1
160 55.9 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 98.9 74.9 112.3
141 62.6 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.312 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037254.D

Acq: 14 Jun 2025 08:22

Instrument :

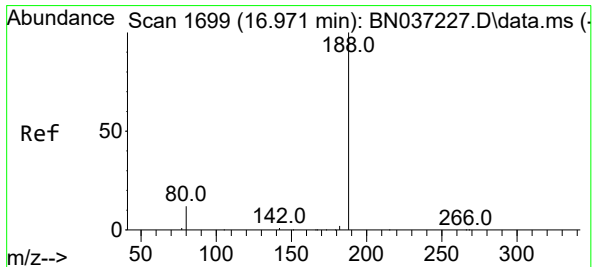
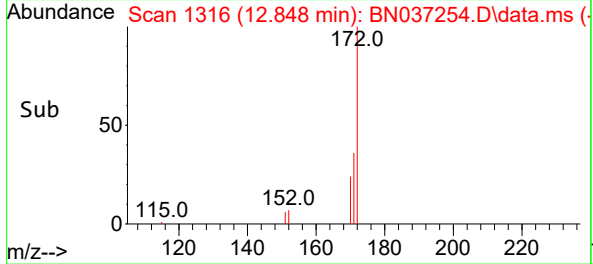
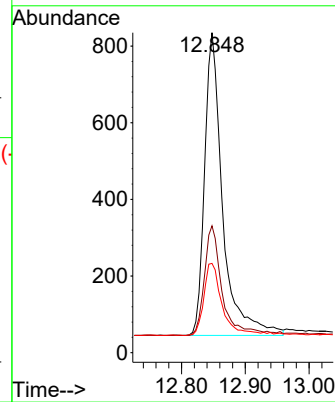
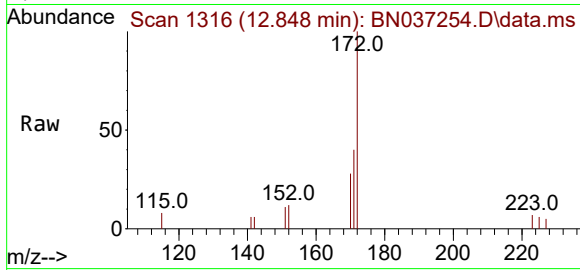
BNA_N

ClientSampleId :

TT15811-20250610

Tgt Ion:172 Resp: 1556

Ion	Ratio	Lower	Upper
172	100		
171	39.6	29.8	44.8
170	27.9	21.1	31.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

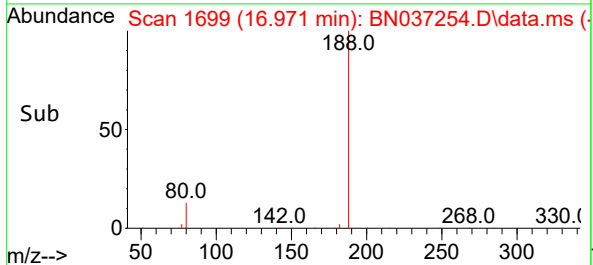
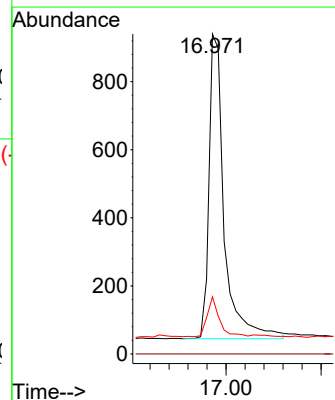
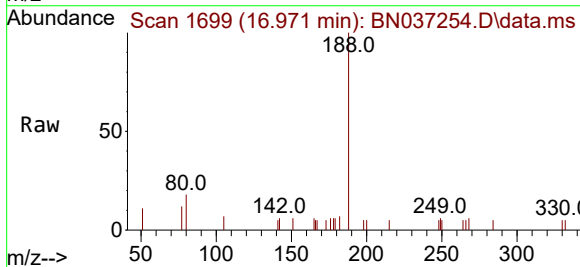
Delta R.T. 0.000 min

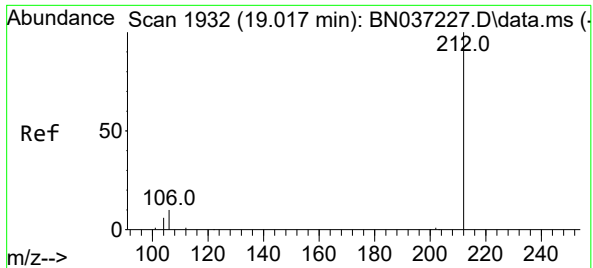
Lab File: BN037254.D

Acq: 14 Jun 2025 08:22

Tgt Ion:188 Resp: 1991

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.9	12.2	18.4

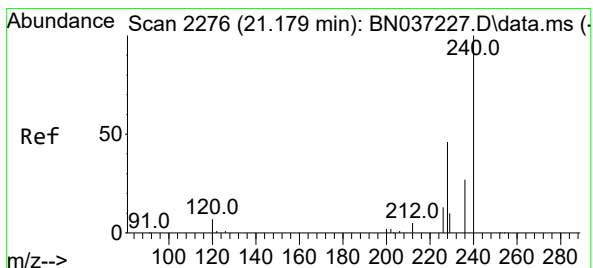
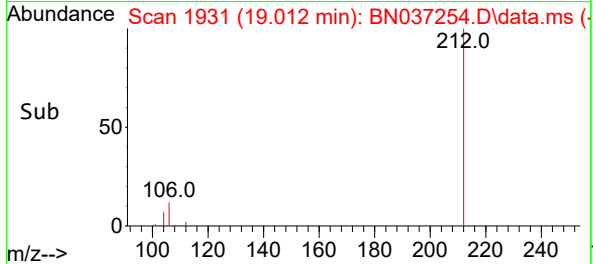
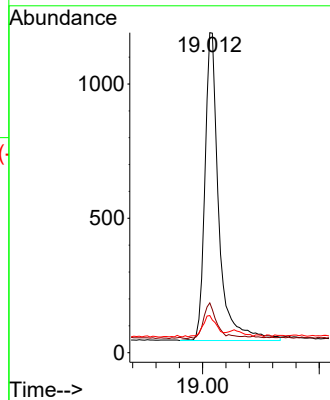
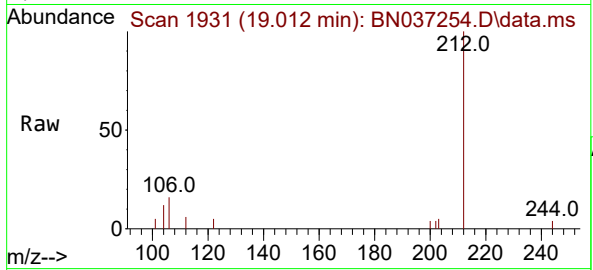




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

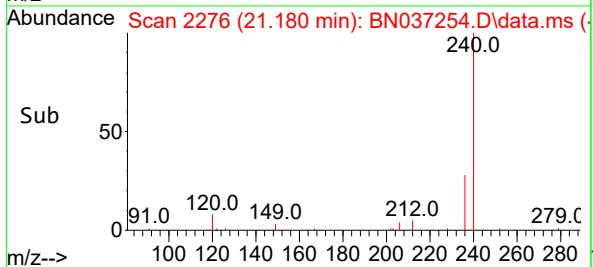
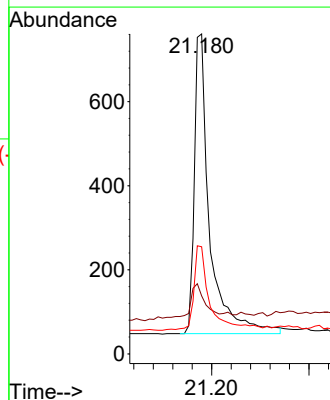
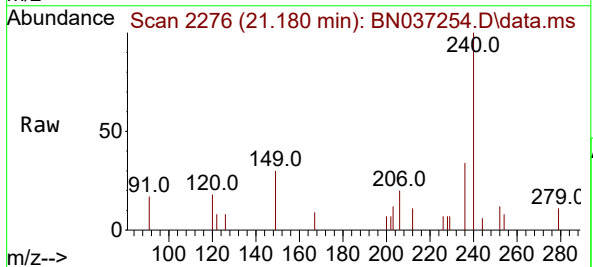
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

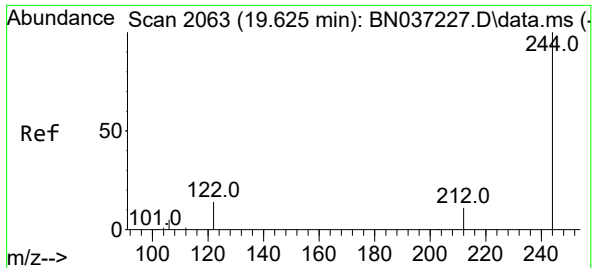
Tgt Ion:212 Resp: 1903
Ion Ratio Lower Upper
212 100
106 11.4 9.3 13.9
104 6.7 5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:240 Resp: 1557
Ion Ratio Lower Upper
240 100
120 18.1 11.3 16.9#
236 33.5 24.4 36.6

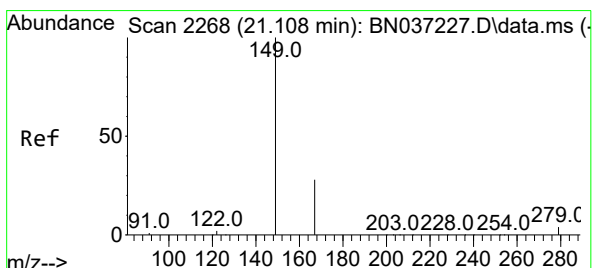
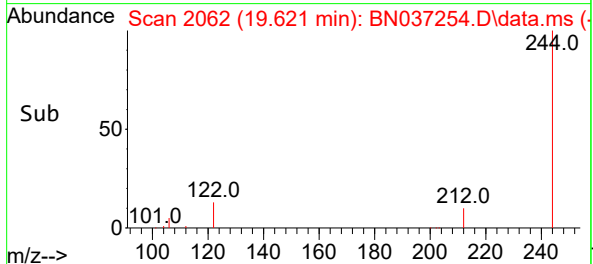
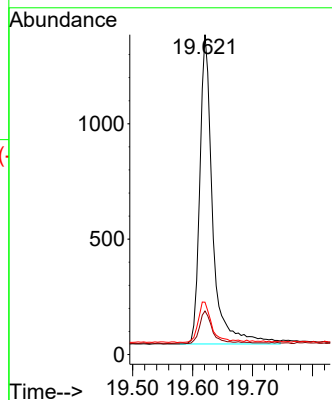
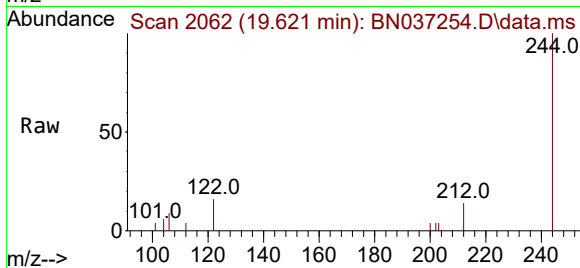




#31
Terphenyl-d14
Concen: 0.569 ng
RT: 19.621 min Scan# 2063
Delta R.T. -0.005 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

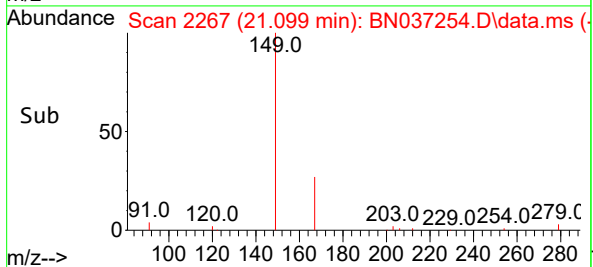
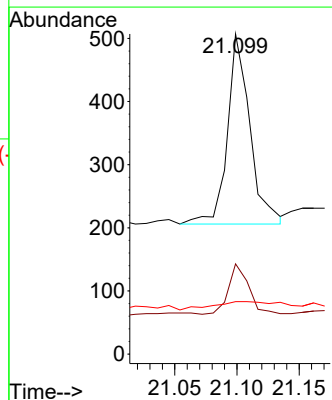
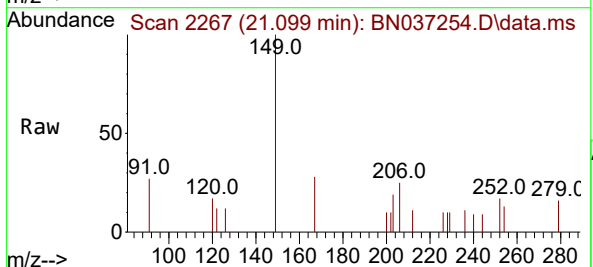
Instrument :
BNA_N
ClientSampleId :
TT15811-20250610

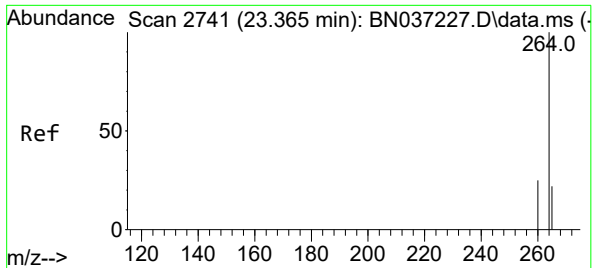
Tgt Ion:244 Resp: 2004
Ion Ratio Lower Upper
244 100
212 13.6 12.2 18.2
122 16.4 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037254.D
Acq: 14 Jun 2025 08:22

Tgt Ion:149 Resp: 378
Ion Ratio Lower Upper
149 100
167 24.1 21.3 31.9
279 14.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037254.D

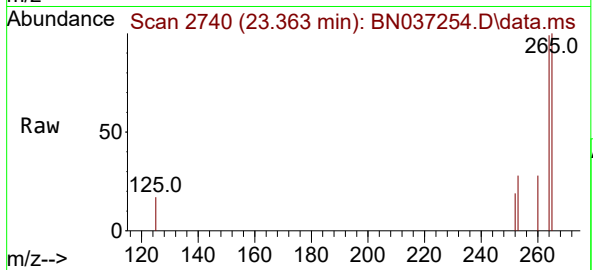
Acq: 14 Jun 2025 08:22

Instrument :

BNA_N

ClientSampleId :

TT15811-20250610



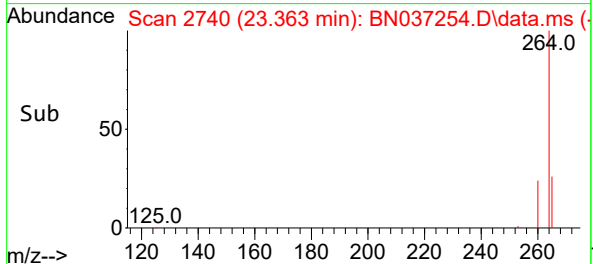
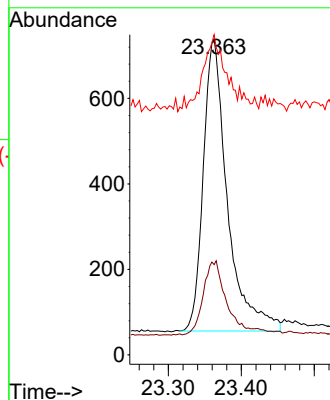
Tgt Ion:264 Resp: 1567

Ion Ratio Lower Upper

264 100

260 28.6 22.8 34.2

265 101.5 66.4 99.6#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP01-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-12	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
BN037255.D	1	06/13/25 08:03	06/14/25 08:58	PB168458

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	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.73	*	58 - 132		182%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	902	7.575				
1146-65-2	Naphthalene-d8	2240	10.362				
15067-26-2	Acenaphthene-d10	1190	14.224				
1517-22-2	Phenanthrene-d10	2110	16.971				
1719-03-5	Chrysene-d12	1640	21.18				
1520-96-3	Perylene-d12	1620	23.36				

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\BN061325\
 Data File : BN037255.D
 Acq On : 14 Jun 2025 08:58
 Operator : RC/JU
 Sample : Q2299-12
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250610

Quant Time: Jun 16 01:01:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

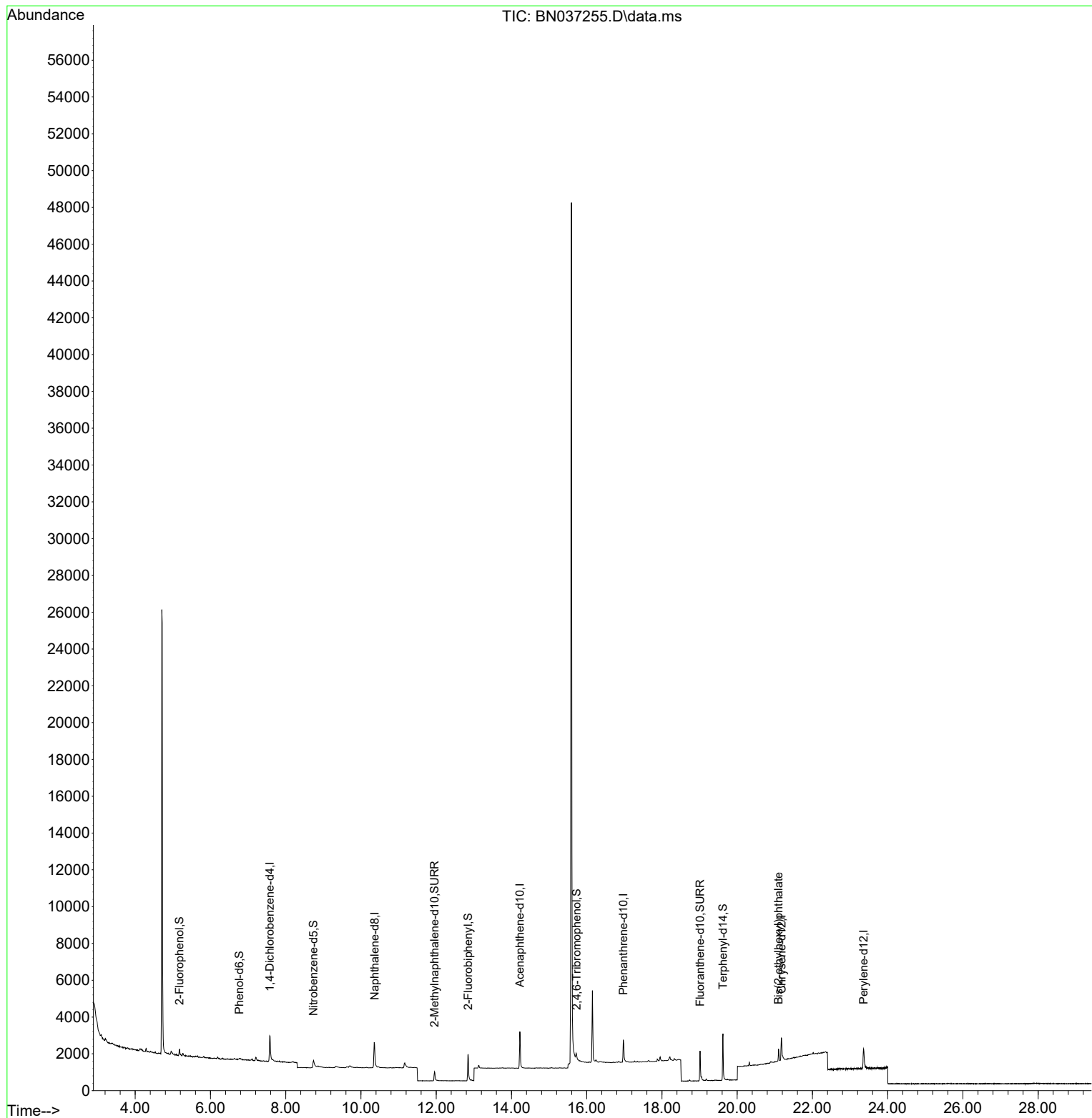
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	902	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2240	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1189	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2107	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1643	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1624	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	237	0.107	ng	0.00
5) Phenol-d6	6.766	99	105	0.045	ng	0.00
8) Nitrobenzene-d5	8.739	82	596	0.269	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	859	0.286	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	179	0.362	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1517	0.304	ng	0.00
27) Fluoranthene-d10	19.012	212	2088	0.379	ng	0.00
31) Terphenyl-d14	19.621	244	2703	0.728	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	674	0.163	ng	Qvalue 92

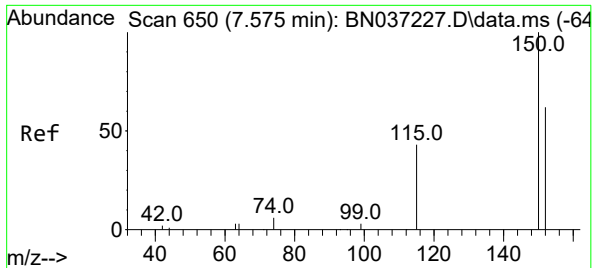
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037255.D
Acq On : 14 Jun 2025 08:58
Operator : RC/JU
Sample : Q2299-12
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

Quant Time: Jun 16 01:01:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

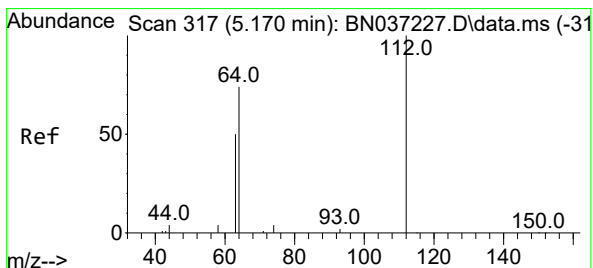
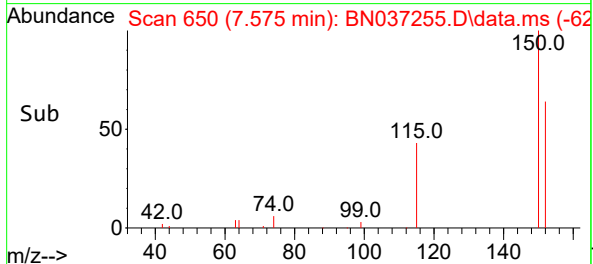
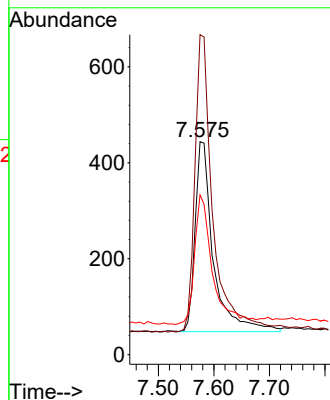
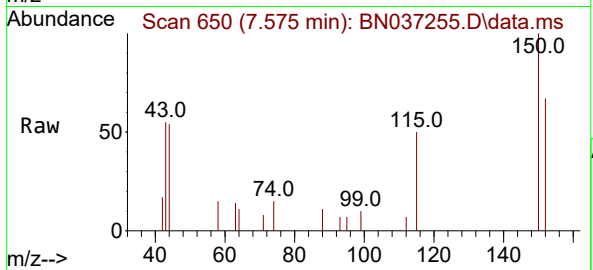




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

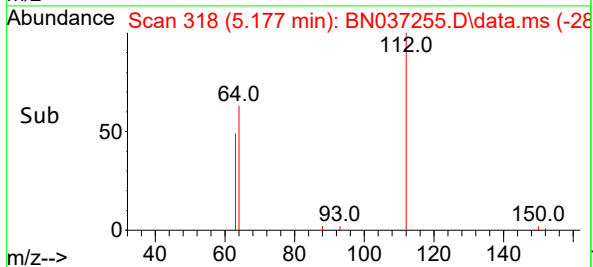
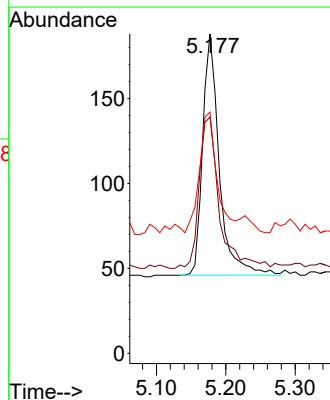
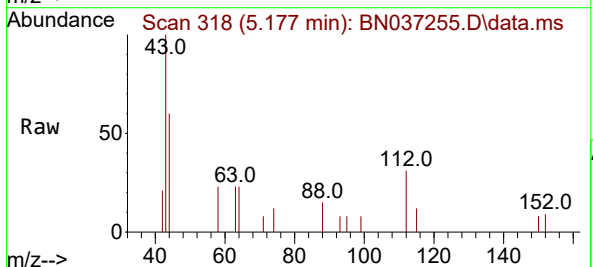
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

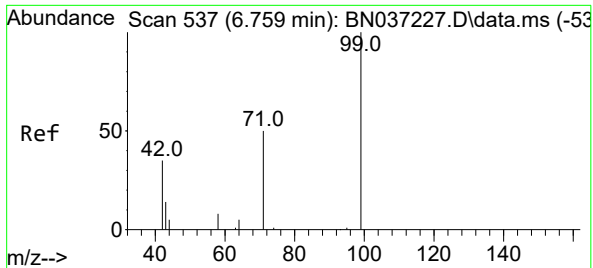
Tgt Ion:152 Resp: 902
Ion Ratio Lower Upper
152 100
150 150.2 125.2 187.8
115 75.0 58.4 87.6



#4
2-Fluorophenol
Concen: 0.107 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:112 Resp: 237
Ion Ratio Lower Upper
112 100
64 75.5 57.2 85.8
63 52.3 39.8 59.6

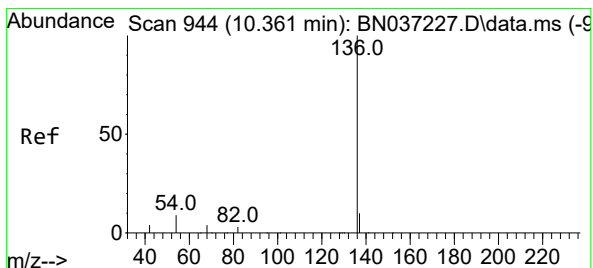
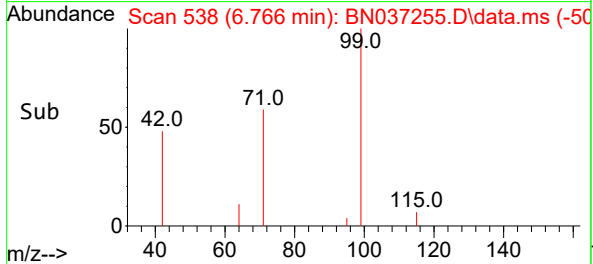
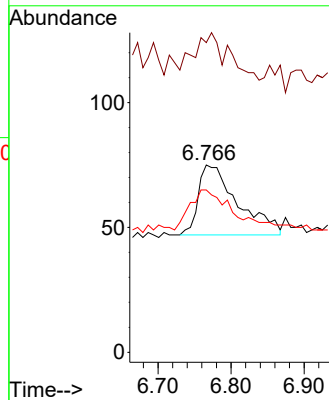
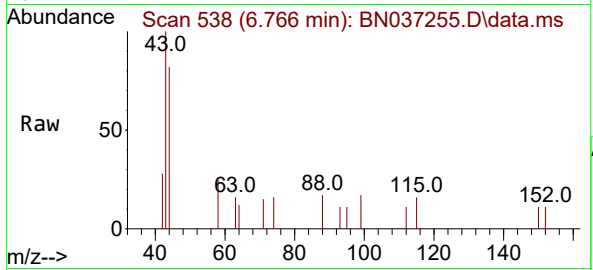




#5
Phenol-d6
Concen: 0.045 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

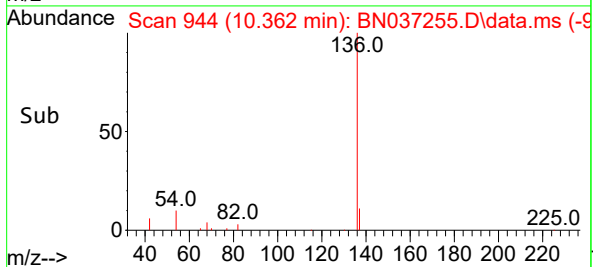
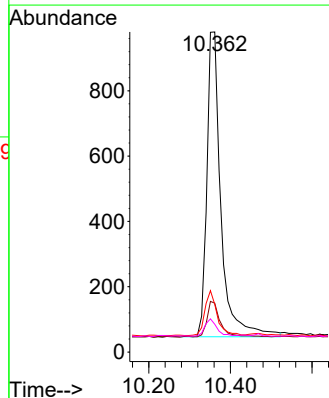
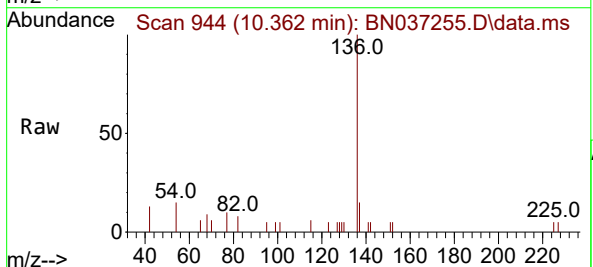
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

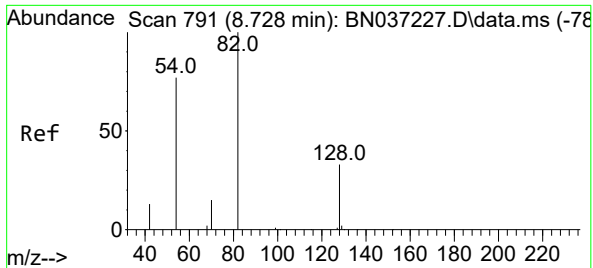
Tgt Ion: 99 Resp: 105
Ion Ratio Lower Upper
99 100
42 28.6 36.2 54.4#
71 71.4 42.4 63.6#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion: 136 Resp: 2240
Ion Ratio Lower Upper
136 100
137 15.3 10.6 15.8
54 14.9 9.2 13.8#
68 8.7 5.4 8.0#

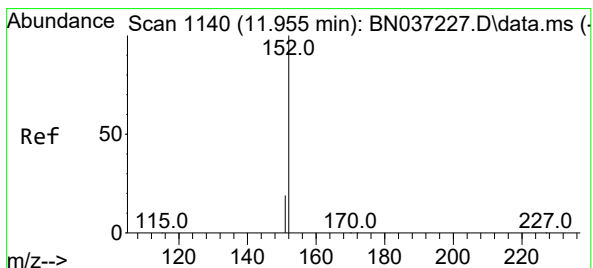
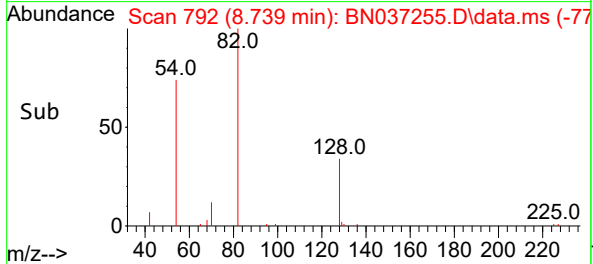
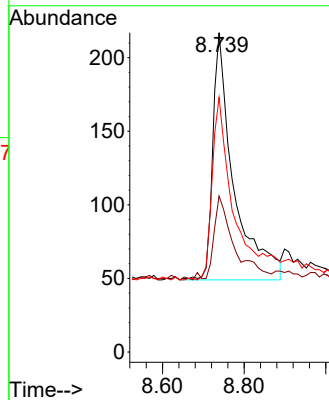
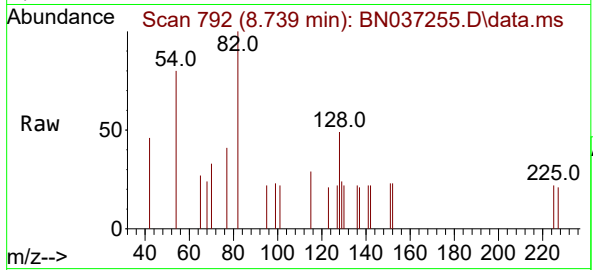




#8
Nitrobenzene-d5
Concen: 0.269 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

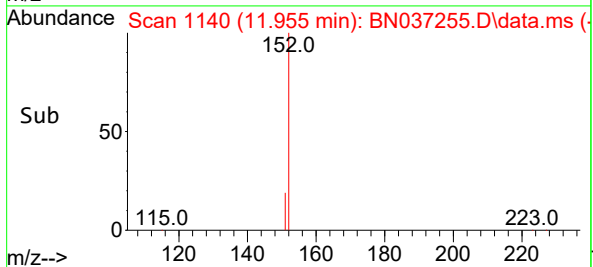
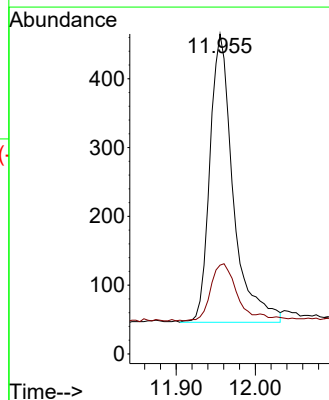
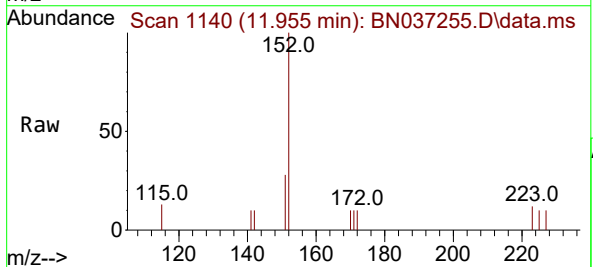
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

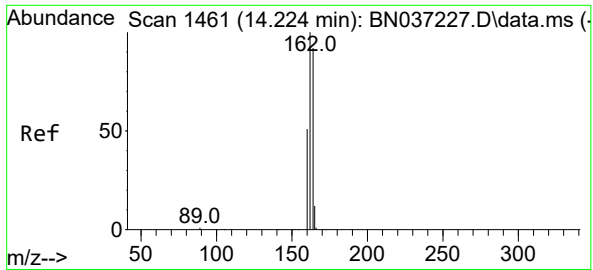
Tgt Ion: 82 Resp: 596
Ion Ratio Lower Upper
82 100
128 48.8 31.2 46.8#
54 79.7 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:152 Resp: 859
Ion Ratio Lower Upper
152 100
151 22.5 17.9 26.9

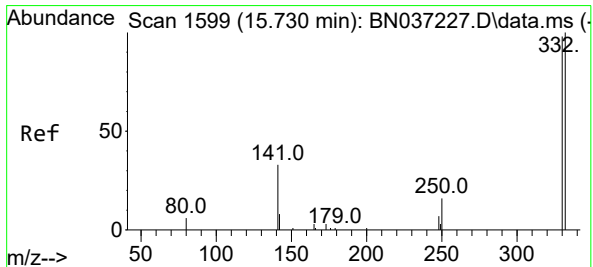
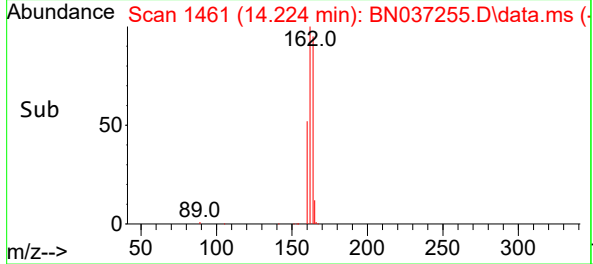
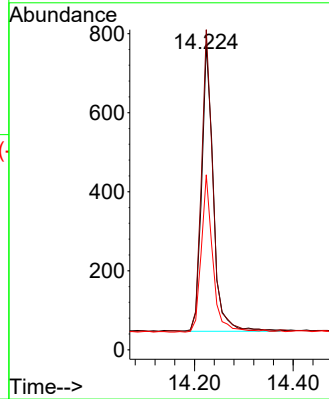
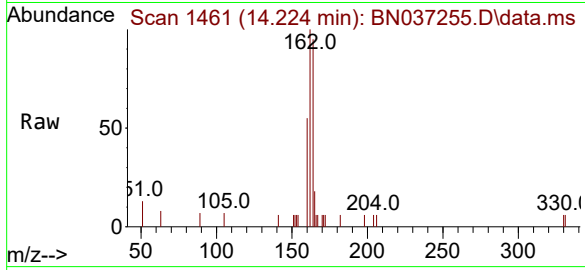




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

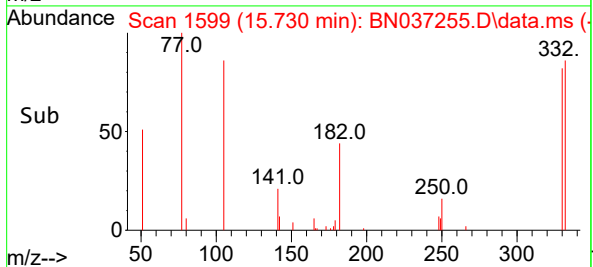
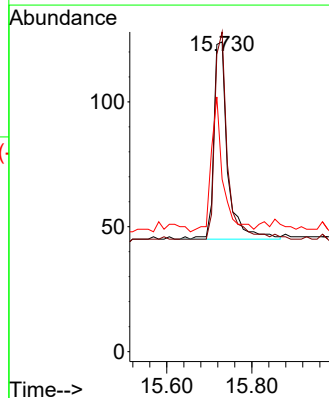
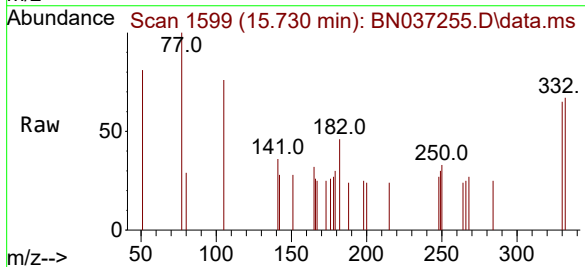
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

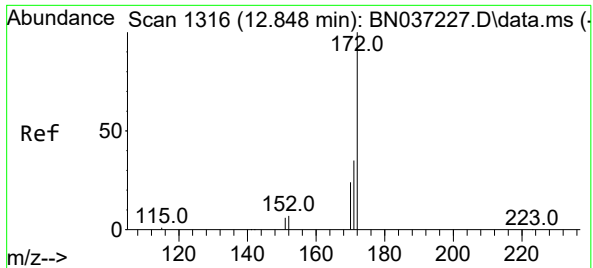
Tgt Ion:164 Resp: 1189
Ion Ratio Lower Upper
164 100
162 104.9 86.7 130.1
160 57.4 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.6 74.9 112.3
141 58.1 45.1 67.7

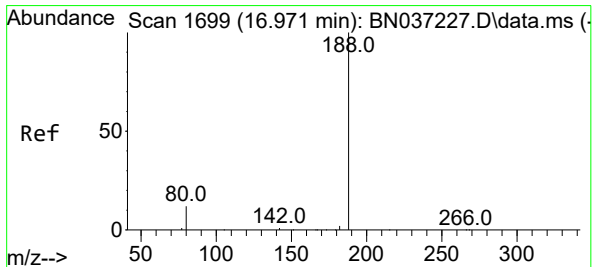
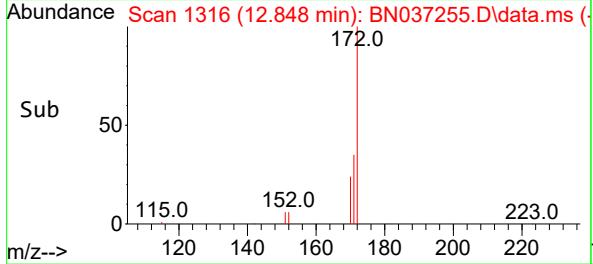
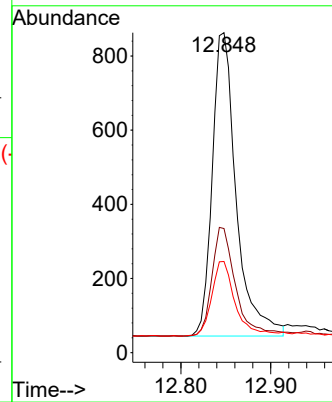
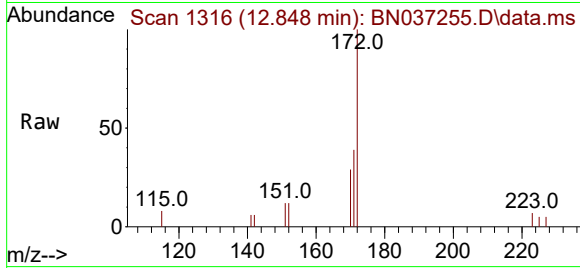




#15
2-Fluorobiphenyl
Concen: 0.304 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

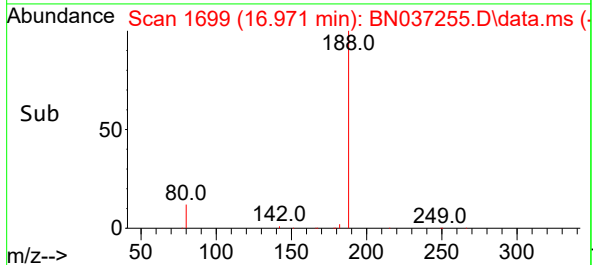
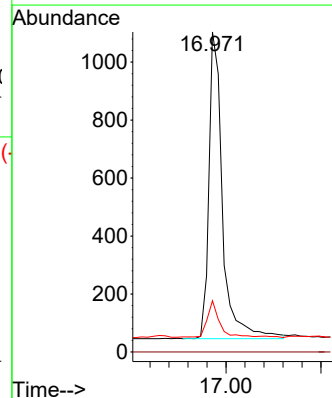
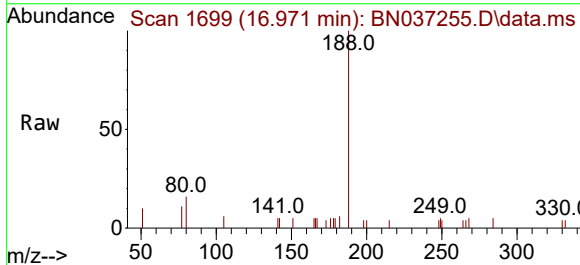
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

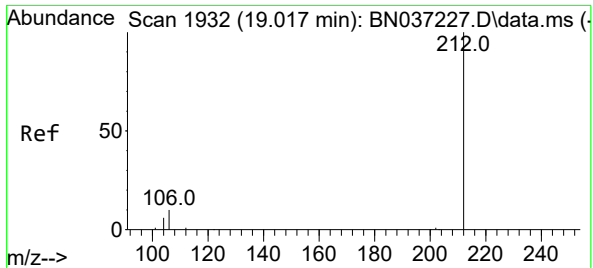
Tgt Ion:	172	Resp:	1517
Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.8	44.8
170	28.5	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:	188	Resp:	2107
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.0	12.2	18.4

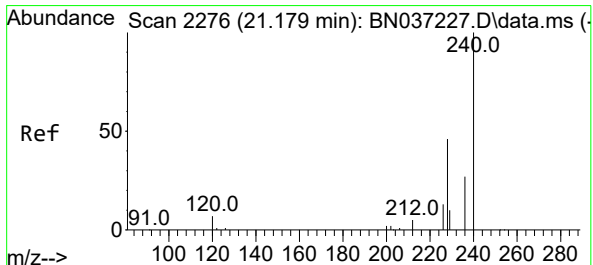
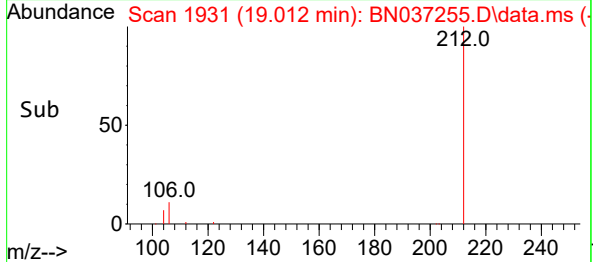
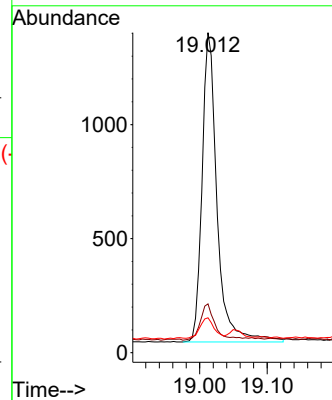
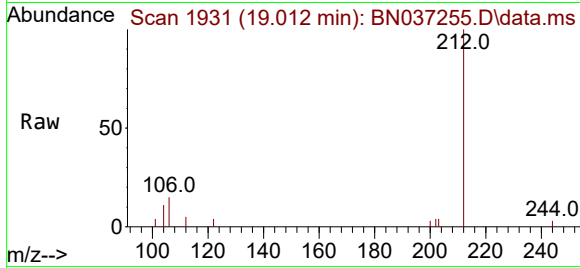




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

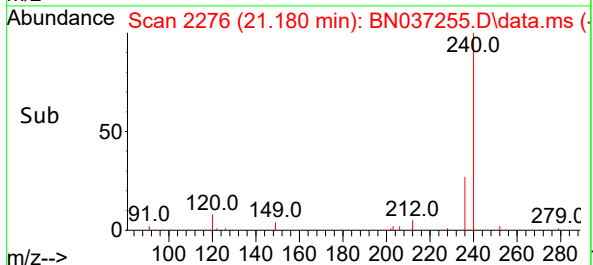
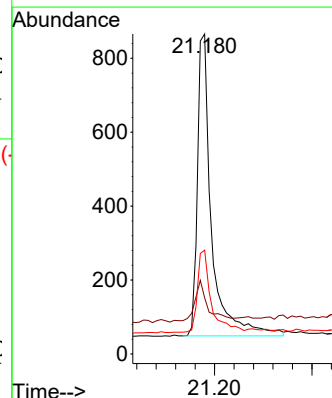
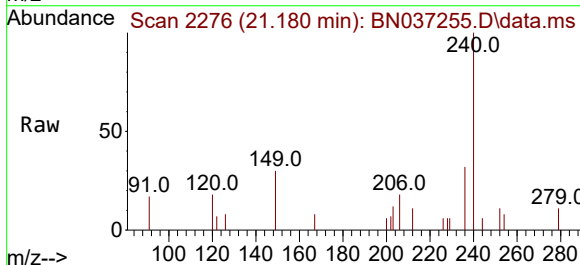
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

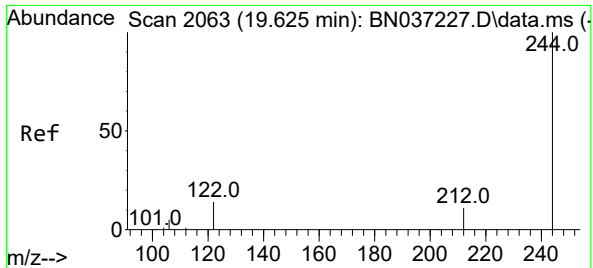
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.3	13.9
104	6.2	5.7	8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.6	11.3	16.9
236	32.4	24.4	36.6

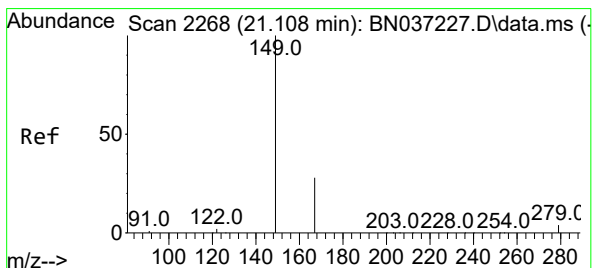
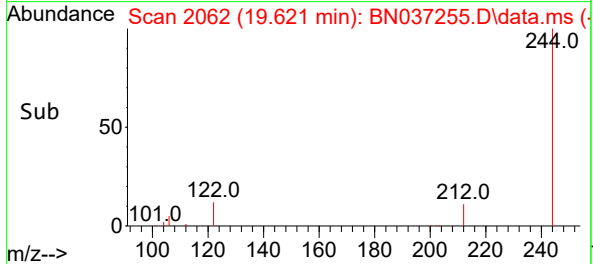
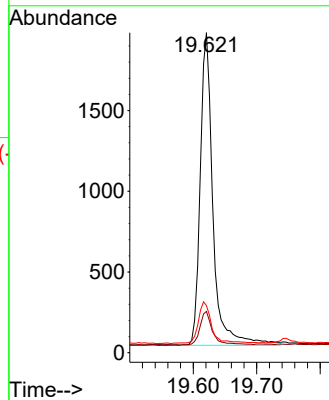
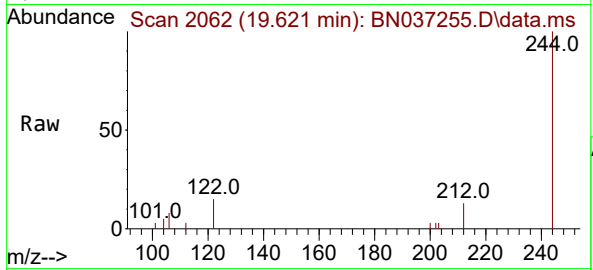




#31
Terphenyl-d14
Concen: 0.728 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

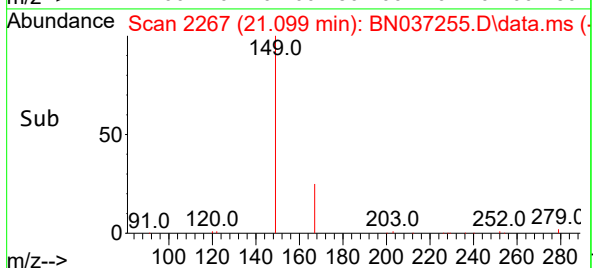
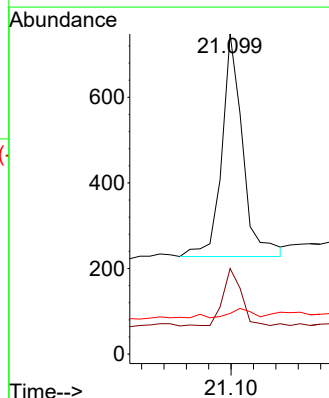
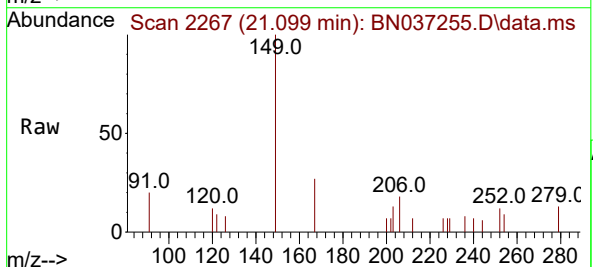
Instrument :
BNA_N
ClientSampleId :
DUP01-20250610

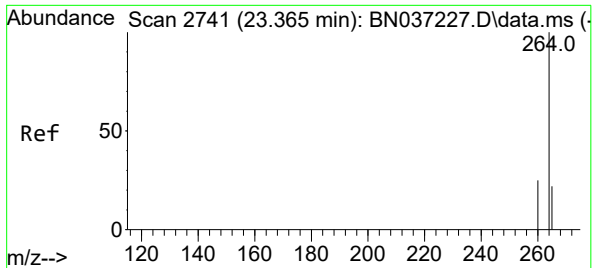
Tgt Ion:244 Resp: 2703
Ion Ratio Lower Upper
244 100
212 12.9 12.2 18.2
122 14.7 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.163 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037255.D
Acq: 14 Jun 2025 08:58

Tgt Ion:149 Resp: 674
Ion Ratio Lower Upper
149 100
167 22.1 21.3 31.9
279 4.0 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037255.D

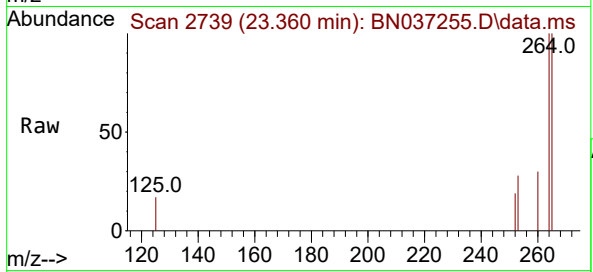
Acq: 14 Jun 2025 08:58

Instrument :

BNA_N

ClientSampleId :

DUP01-20250610



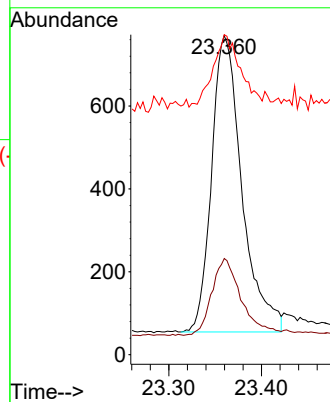
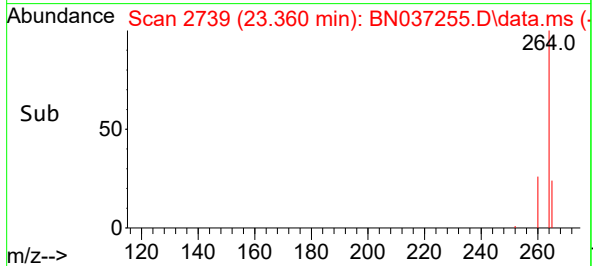
Tgt Ion:264 Resp: 1624

Ion Ratio Lower Upper

264 100

260 30.1 22.8 34.2

265 100.3 66.4 99.6#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE131D2-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-13	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
BN037256.D	1	06/13/25 08:03	06/14/25 09:34	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.2	E	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	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1020	7.575				
1146-65-2	Naphthalene-d8	2390	10.362				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2220	16.971				
1719-03-5	Chrysene-d12	1840	21.18				
1520-96-3	Perylene-d12	1820	23.363				

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\BN061325\
 Data File : BN037256.D
 Acq On : 14 Jun 2025 09:34
 Operator : RC/JU
 Sample : Q2299-13
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE131D2-20250610

Quant Time: Jun 16 01:01:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

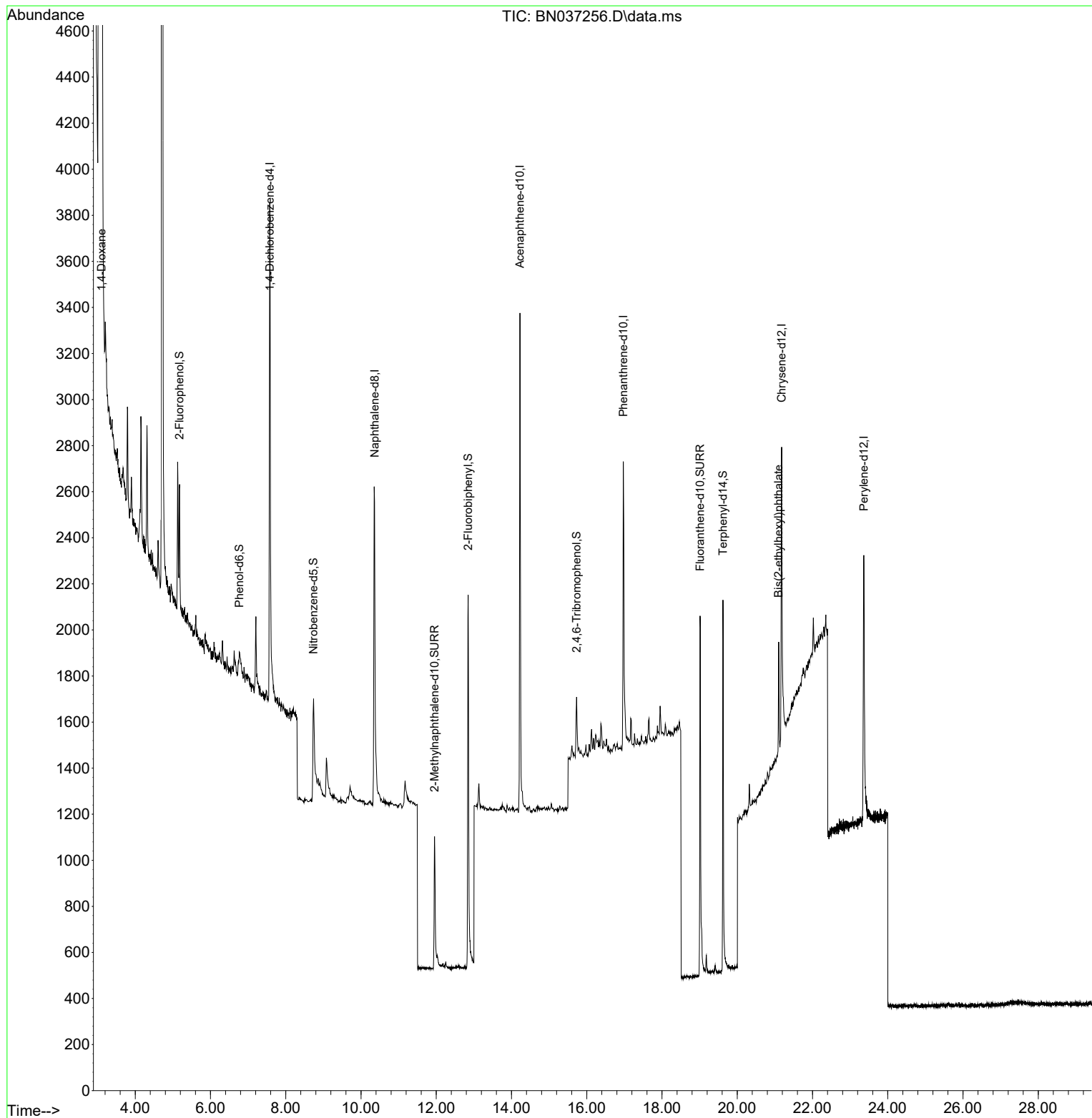
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1021	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2392	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1295	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2221	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1842	0.400	ng	0.00
35) Perylene-d12	23.363	264	1819	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	386	0.154	ng	0.00
5) Phenol-d6	6.766	99	172	0.065	ng	0.00
8) Nitrobenzene-d5	8.739	82	707	0.299	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1054	0.328	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	195	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1879	0.345	ng	0.00
27) Fluoranthene-d10	19.012	212	2238	0.385	ng	0.00
31) Terphenyl-d14	19.621	244	1868	0.449	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	14310	10.216	ng	94
34) Bis(2-ethylhexyl)phtha...	21.099	149	458	0.099	ng	# 96

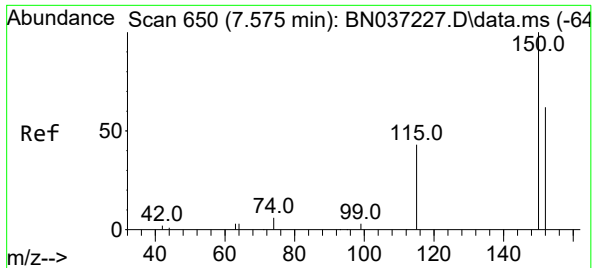
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037256.D
Acq On : 14 Jun 2025 09:34
Operator : RC/JU
Sample : Q2299-13
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

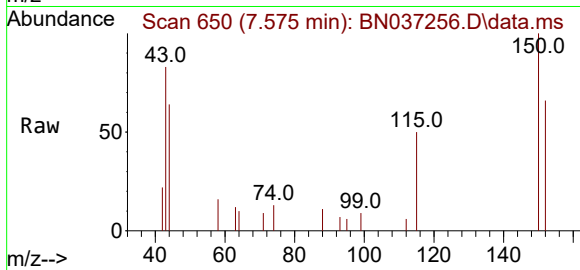
Quant Time: Jun 16 01:01:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



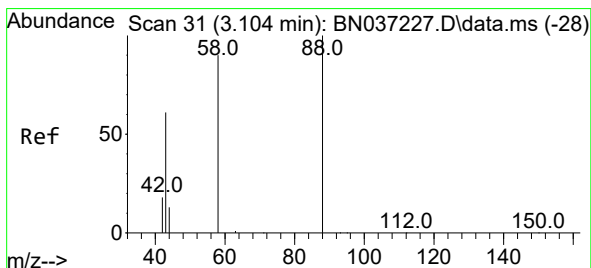
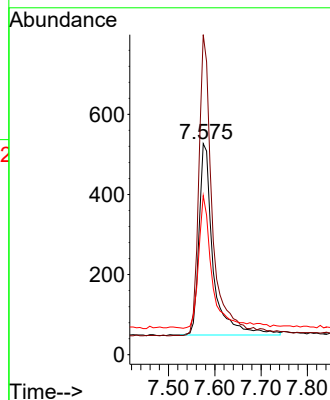
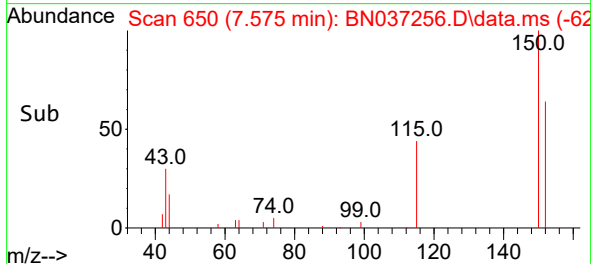


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

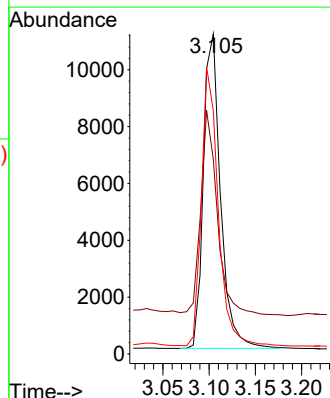
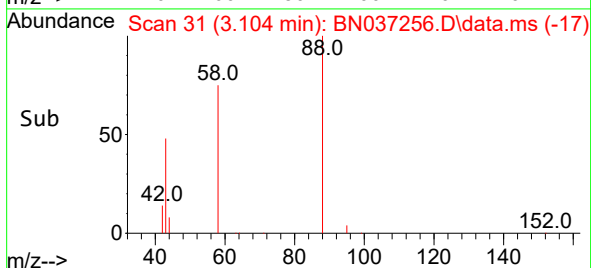
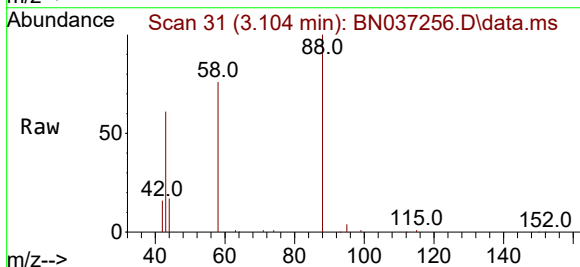


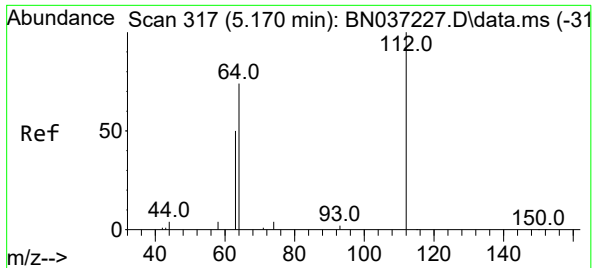
Tgt Ion:152 Resp: 1021
Ion Ratio Lower Upper
152 100
150 151.6 125.2 187.8
115 75.3 58.4 87.6



#2
1,4-Dioxane
Concen: 10.216 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion: 88 Resp: 14310
Ion Ratio Lower Upper
88 100
43 62.1 52.6 79.0
58 86.0 73.5 110.3

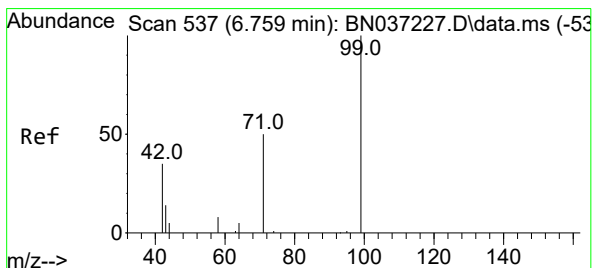
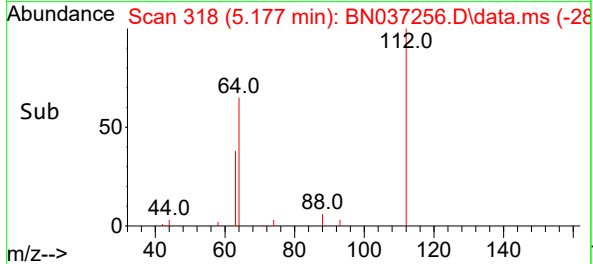
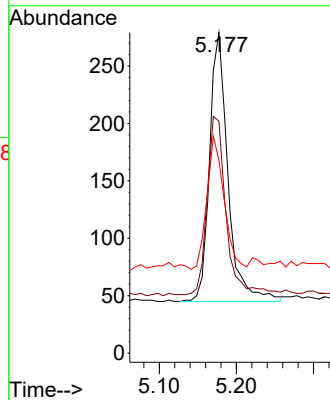
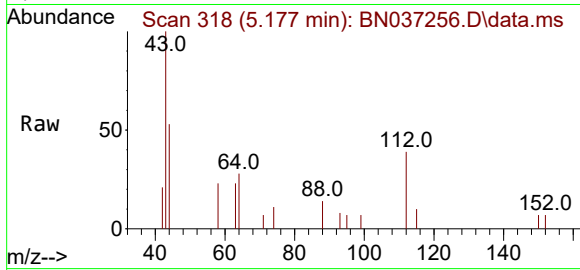




#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

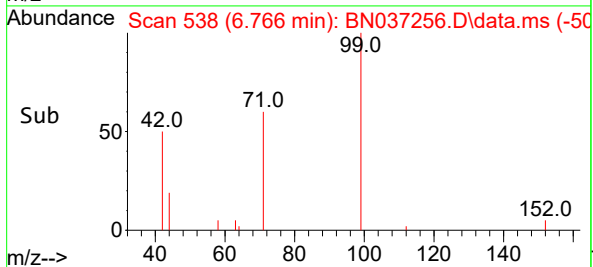
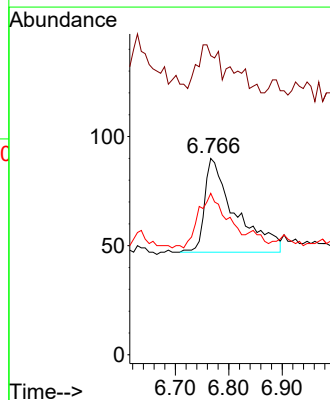
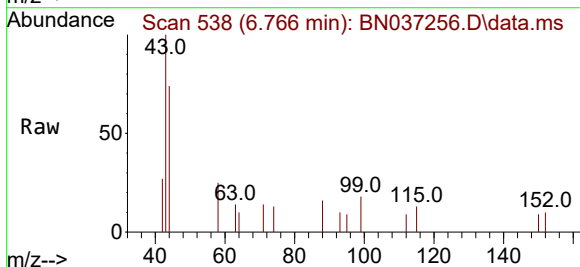
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

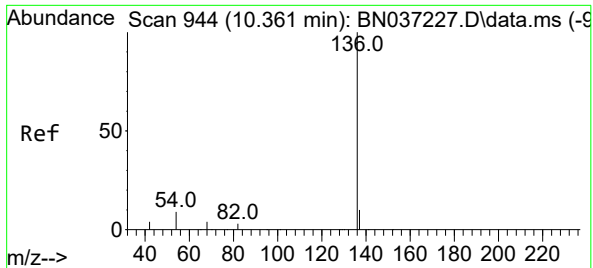
Tgt Ion:112 Resp: 386
Ion Ratio Lower Upper
112 100
64 67.9 57.2 85.8
63 45.9 39.8 59.6



#5
Phenol-d6
Concen: 0.065 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion: 99 Resp: 172
Ion Ratio Lower Upper
99 100
42 31.4 36.2 54.4#
71 55.2 42.4 63.6

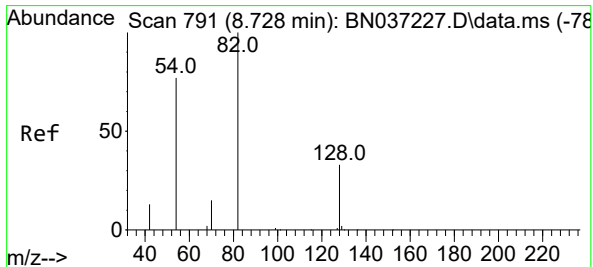
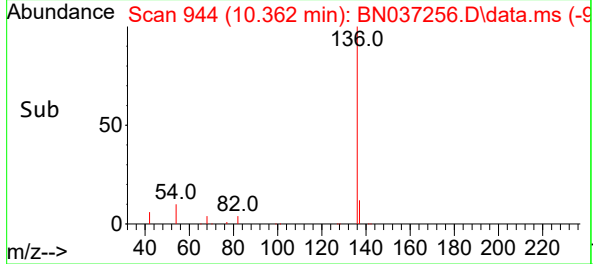
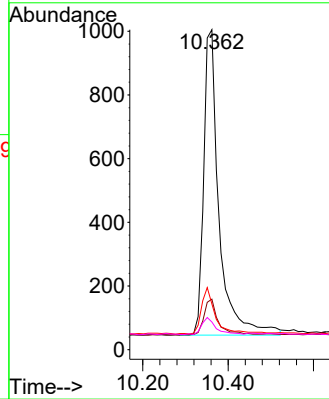
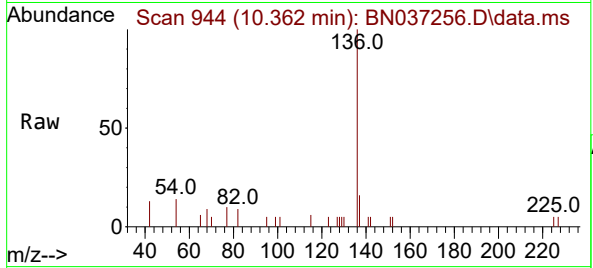




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

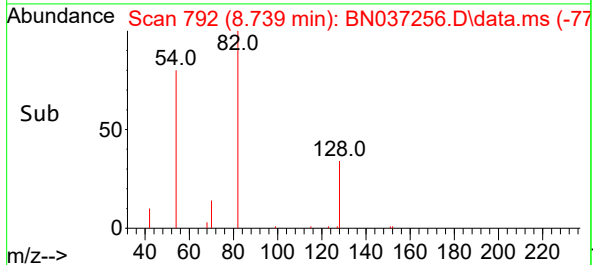
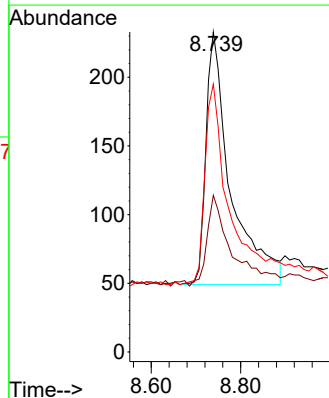
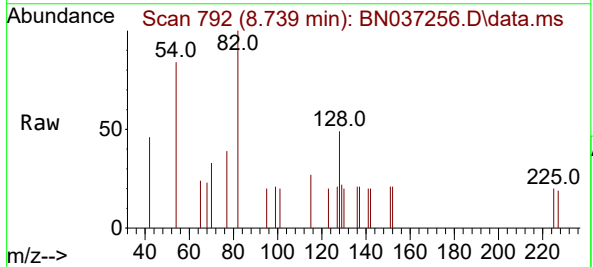
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

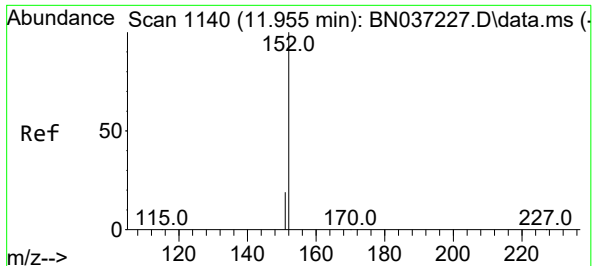
Tgt Ion:	136	Resp:	2392
Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8
54	14.3	9.2	13.8#
68	8.7	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:	82	Resp:	707
Ion	Ratio	Lower	Upper
82	100		
128	48.9	31.2	46.8#
54	83.7	63.3	94.9

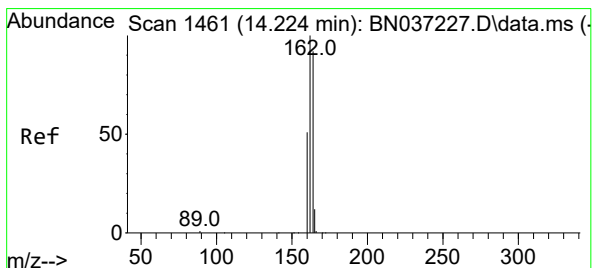
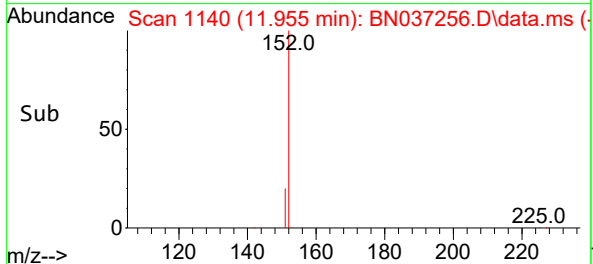
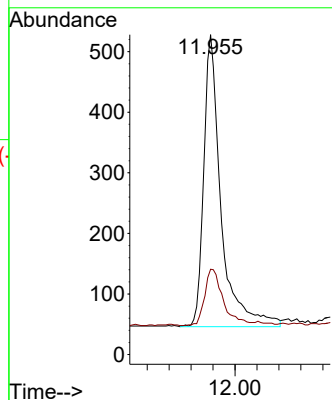
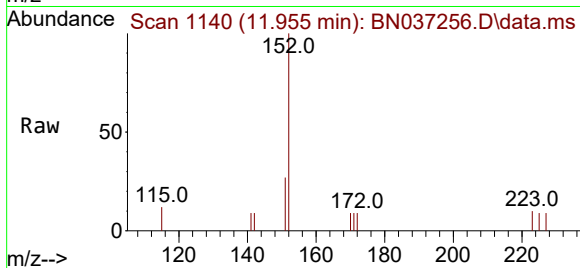




#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

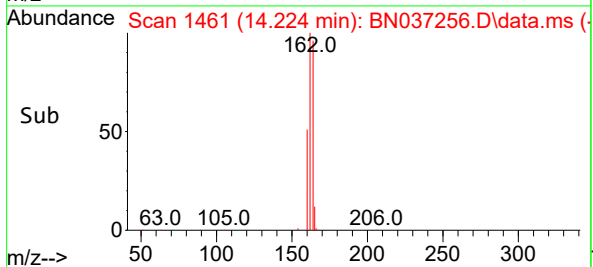
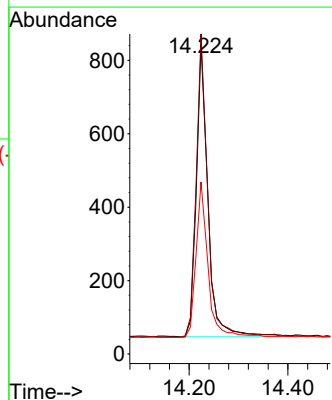
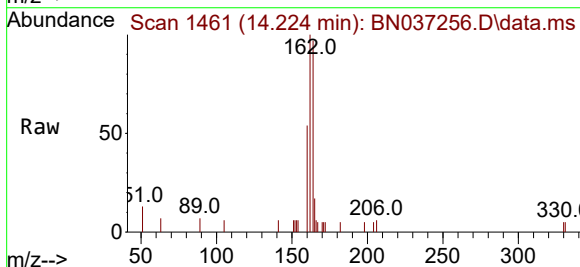
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

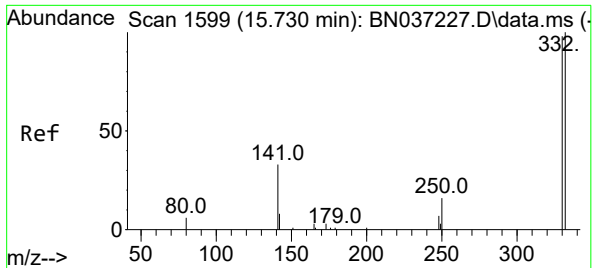
Tgt Ion:152 Resp: 1054
Ion Ratio Lower Upper
152 100
151 20.6 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:164 Resp: 1295
Ion Ratio Lower Upper
164 100
162 103.3 86.7 130.1
160 55.6 45.8 68.6

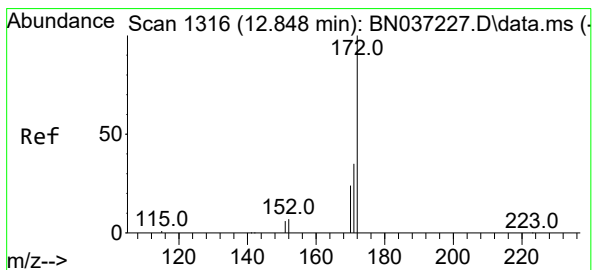
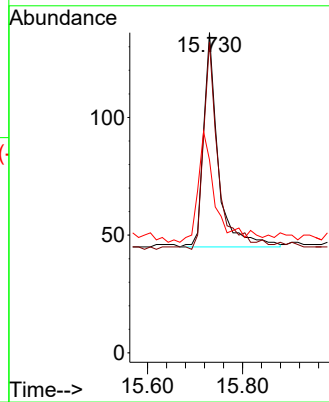
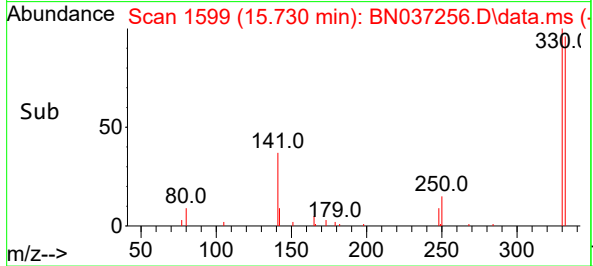
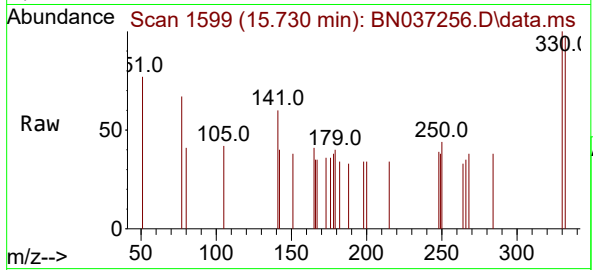




#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

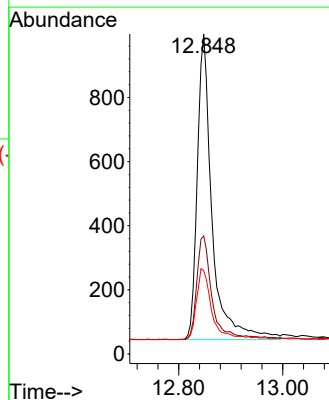
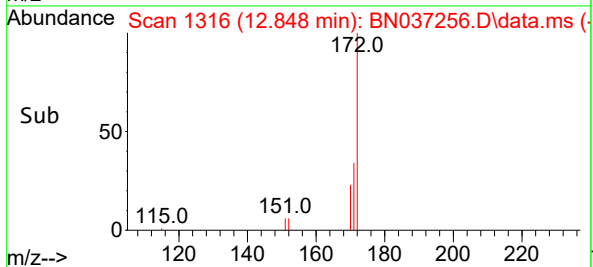
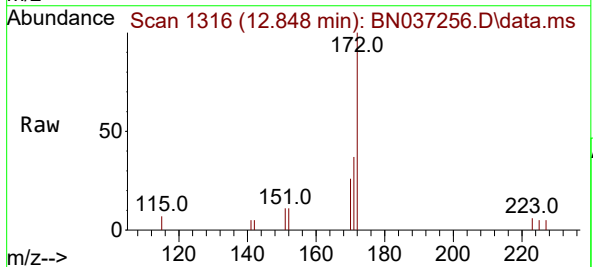
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

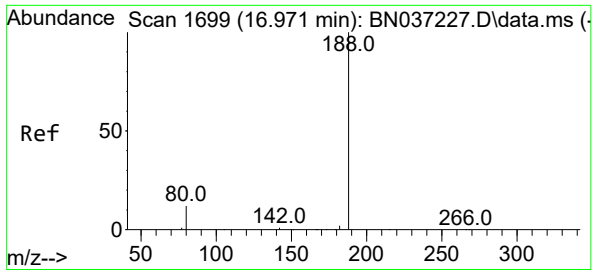
Tgt Ion:330 Resp: 195
Ion Ratio Lower Upper
330 100
332 93.3 74.9 112.3
141 62.1 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:172 Resp: 1879
Ion Ratio Lower Upper
172 100
171 36.9 29.8 44.8
170 26.1 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037256.D

Acq: 14 Jun 2025 09:34

Instrument :

BNA_N

ClientSampleId :

RE131D2-20250610

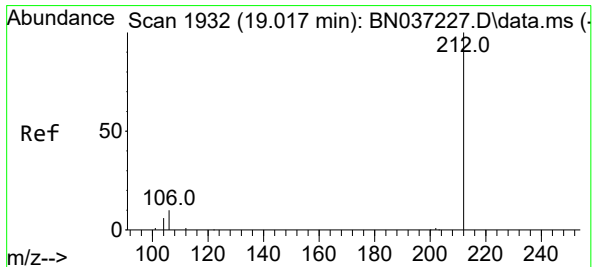
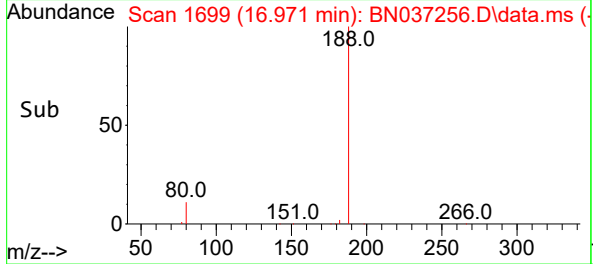
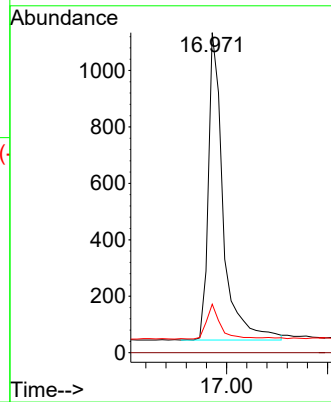
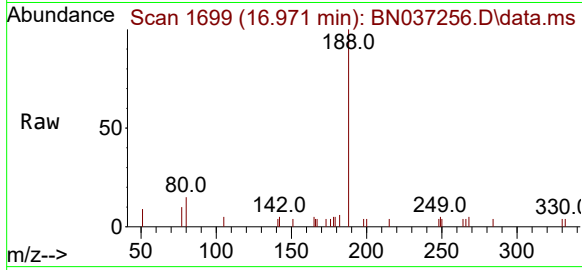
Tgt Ion:188 Resp: 2221

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.2 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.385 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037256.D

Acq: 14 Jun 2025 09:34

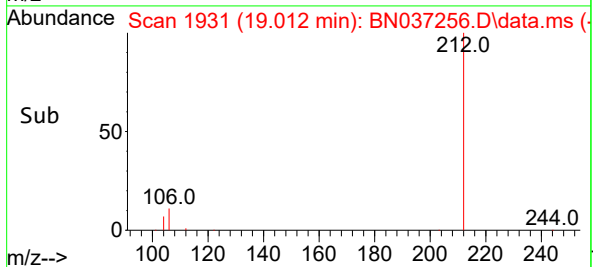
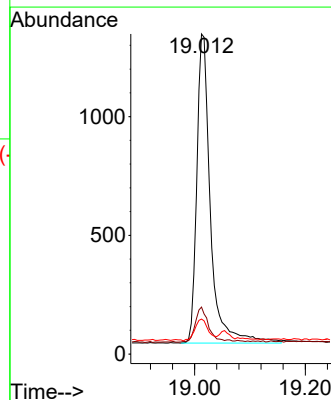
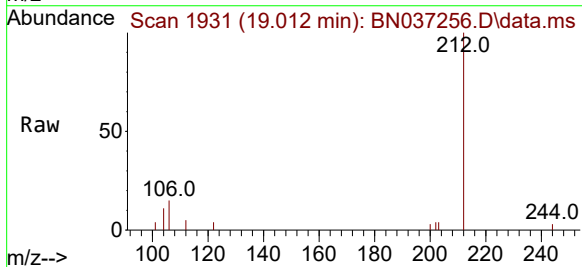
Tgt Ion:212 Resp: 2238

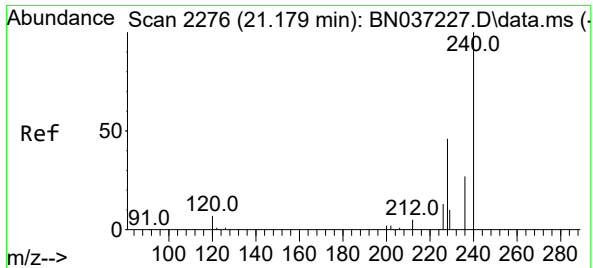
Ion Ratio Lower Upper

212 100

106 10.7 9.3 13.9

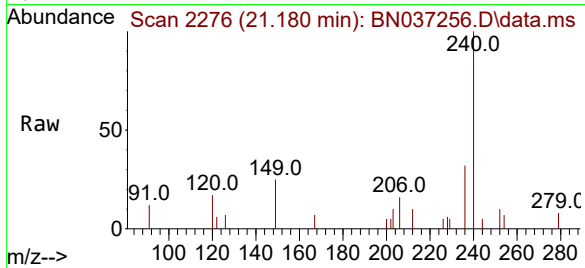
104 6.9 5.7 8.5



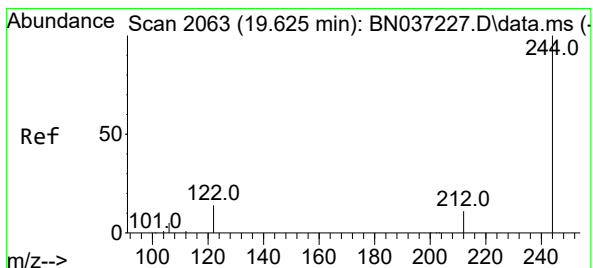
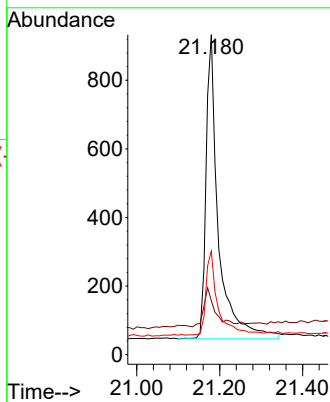
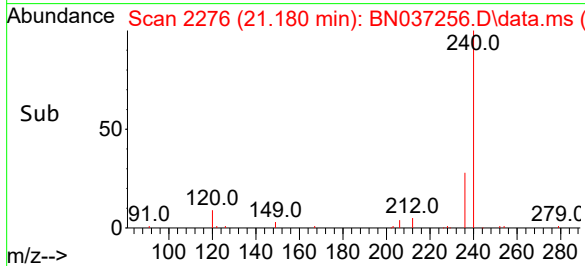


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

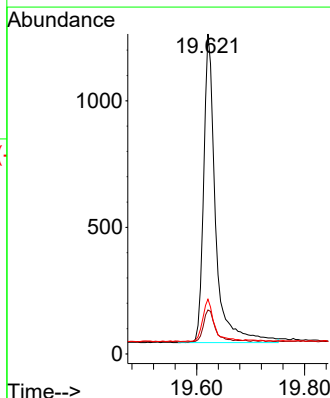
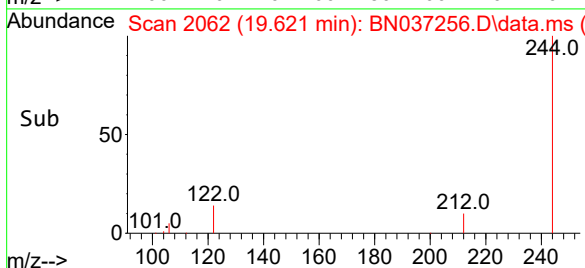
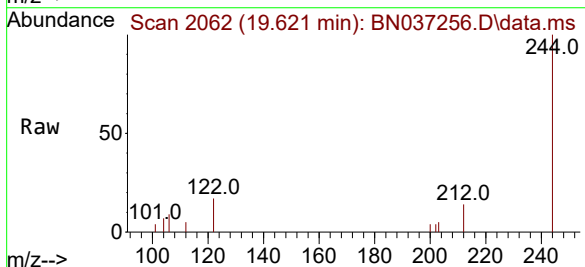


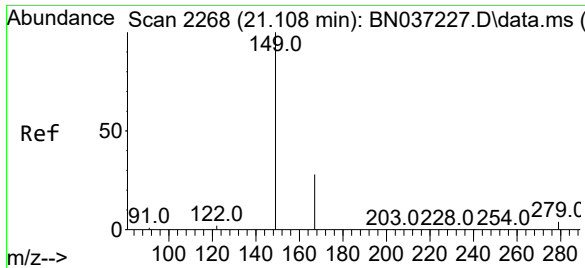
Tgt Ion:240 Resp: 1842
Ion Ratio Lower Upper
240 100
120 16.8 11.3 16.9
236 32.4 24.4 36.6



#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:244 Resp: 1868
Ion Ratio Lower Upper
244 100
212 13.8 12.2 18.2
122 17.1 14.3 21.5

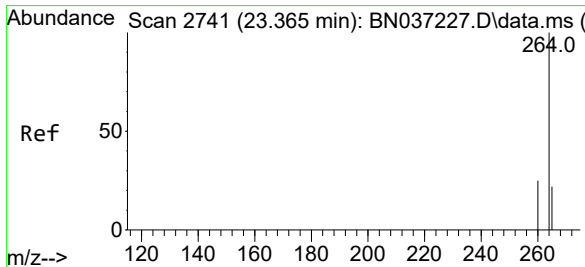
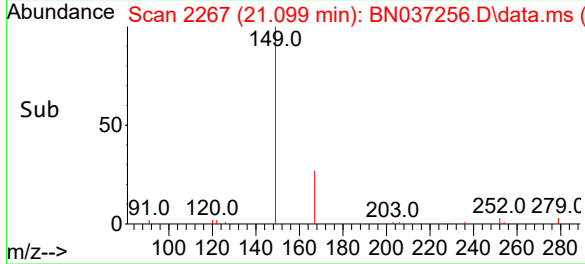
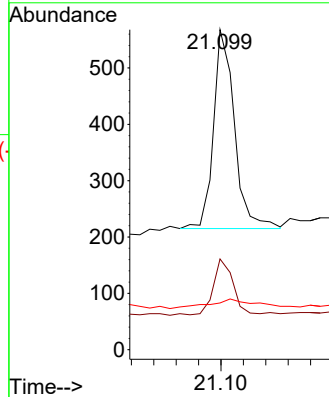
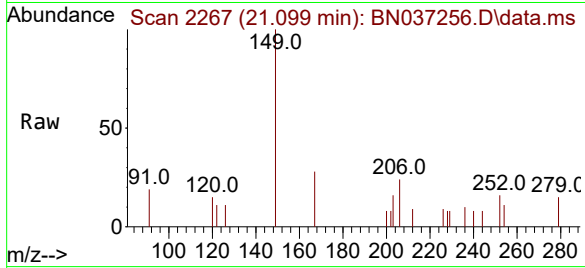




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.099 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

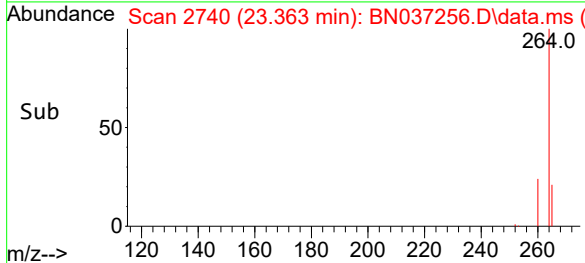
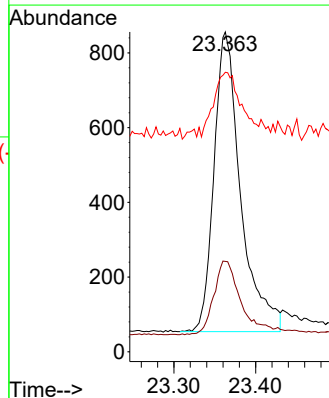
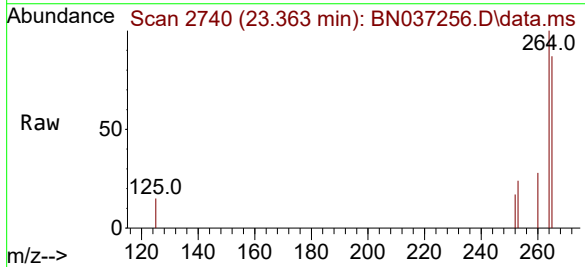
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610

Tgt Ion:149 Resp: 458
Ion Ratio Lower Upper
149 100
167 27.3 21.3 31.9
279 11.6 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037256.D
Acq: 14 Jun 2025 09:34

Tgt Ion:264 Resp: 1819
Ion Ratio Lower Upper
264 100
260 28.3 22.8 34.2
265 87.4 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE131D2-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-13DL	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
BN037287.D	5	06/13/25 08:03	06/16/25 12:15	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	13.2	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	771		7.582			
1146-65-2	Naphthalene-d8	1900		10.362			
15067-26-2	Acenaphthene-d10	1100		14.224			
1517-22-2	Phenanthrene-d10	1810		16.984			
1719-03-5	Chrysene-d12	1370		21.18			
1520-96-3	Perylene-d12	1300		23.366			

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\BN061625\
 Data File : BN037287.D
 Acq On : 16 Jun 2025 12:15
 Operator : RC/JU
 Sample : Q2299-13DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE131D2-20250610DL

Quant Time: Jun 16 12:41:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

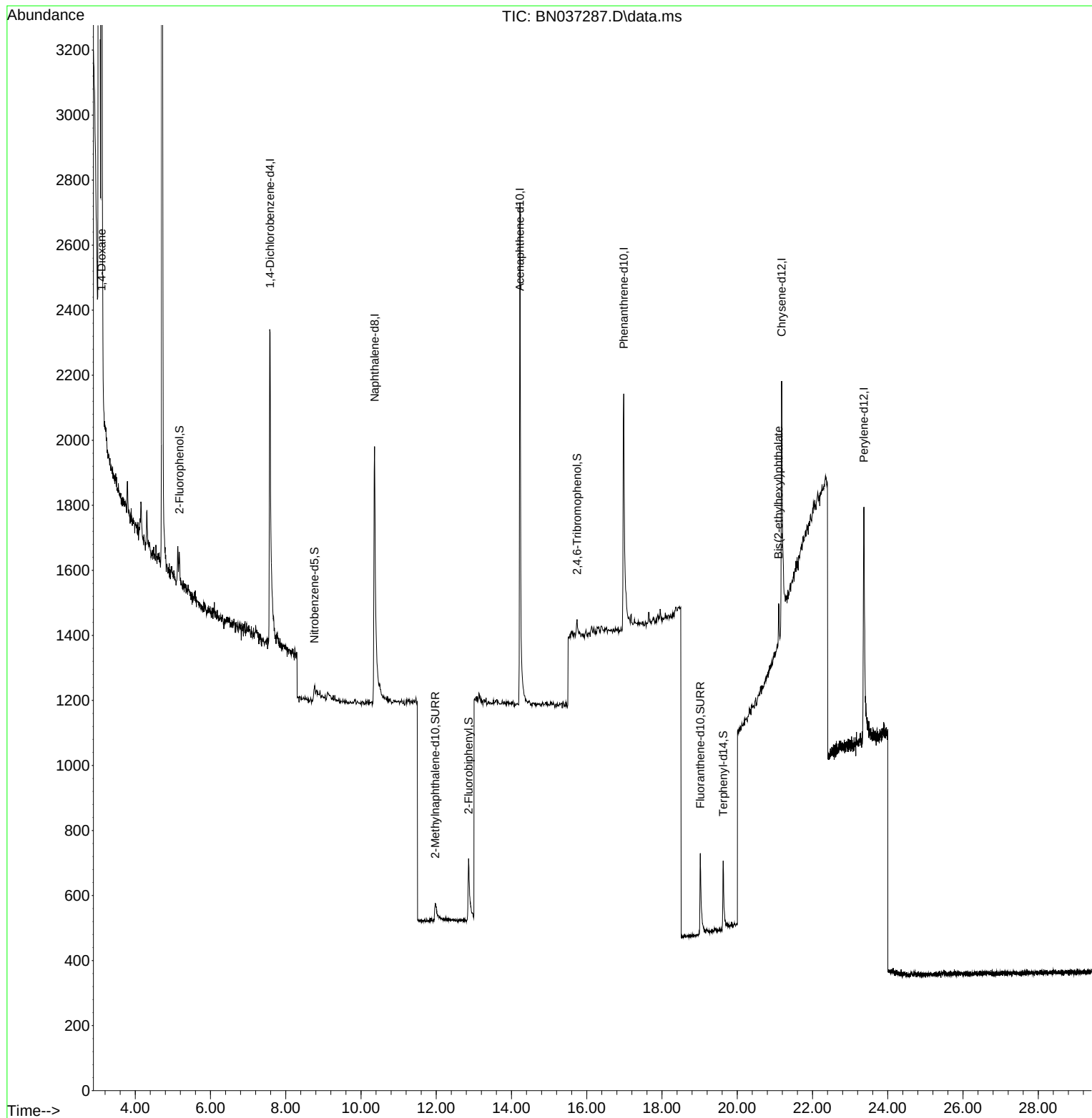
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	771	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	1898	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1101	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1810	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1371	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	1300	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	79	0.042	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.760	82	102	0.054	ng	0.03
11) 2-Methylnaphthalene-d10	11.976	152	192	0.075	ng	0.02
14) 2,4,6-Tribromophenol	15.743	330	33	0.072	ng	0.01
15) 2-Fluorobiphenyl	12.858	172	357	0.077	ng	0.01
27) Fluoranthene-d10	19.017	212	463	0.098	ng	0.00
31) Terphenyl-d14	19.625	244	376	0.121	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2793	2.640	ng	95
34) Bis(2-ethylhexyl)phtha...	21.099	149	141	0.041	ng	# 96

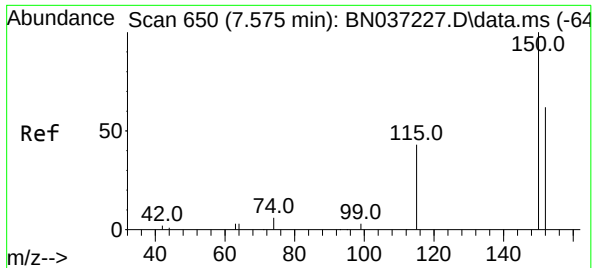
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037287.D
Acq On : 16 Jun 2025 12:15
Operator : RC/JU
Sample : Q2299-13DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

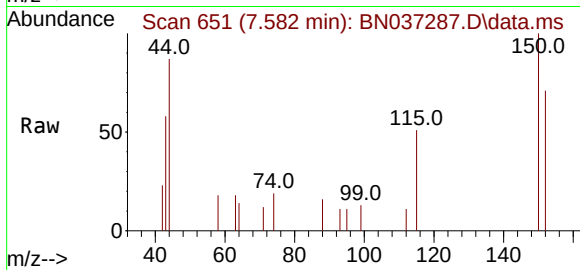
Quant Time: Jun 16 12:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



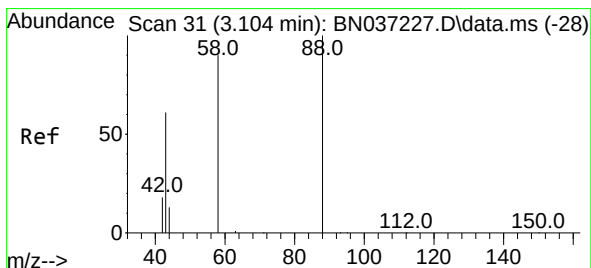
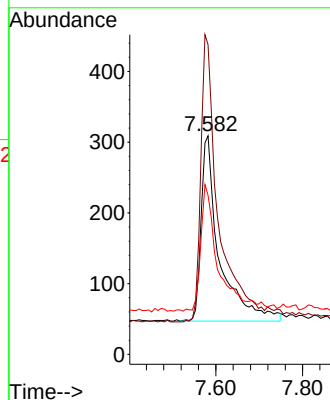
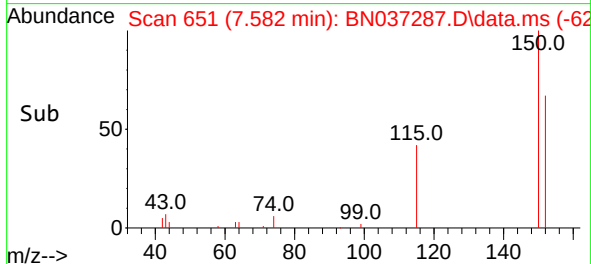


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.582 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: BN037287.D
 Acq: 16 Jun 2025 12:15

Instrument :
 BNA_N
 ClientSampleId :
 RE131D2-20250610DL

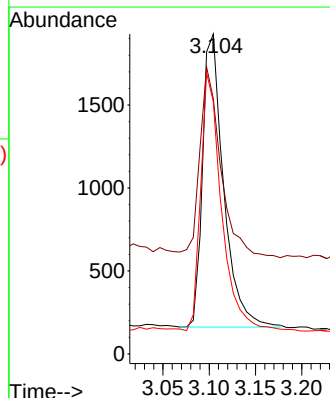
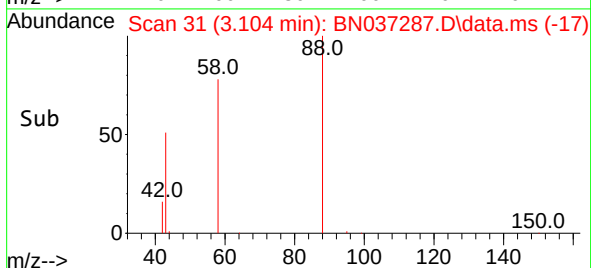
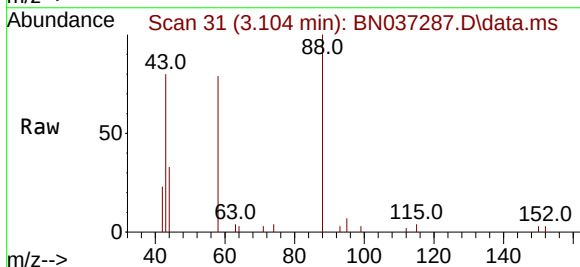


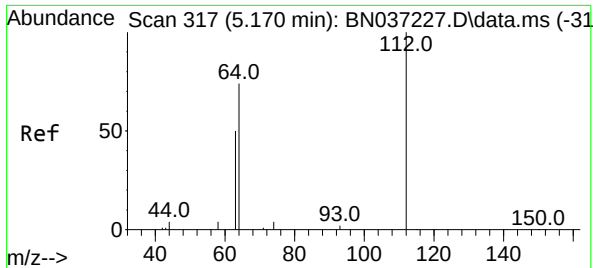
Tgt Ion: 152 Resp: 771
 Ion Ratio Lower Upper
 152 100
 150 141.7 125.2 187.8
 115 72.8 58.4 87.6



#2
 1,4-Dioxane
 Concen: 2.640 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037287.D
 Acq: 16 Jun 2025 12:15

Tgt Ion: 88 Resp: 2793
 Ion Ratio Lower Upper
 88 100
 43 65.3 52.6 79.0
 58 84.9 73.5 110.3

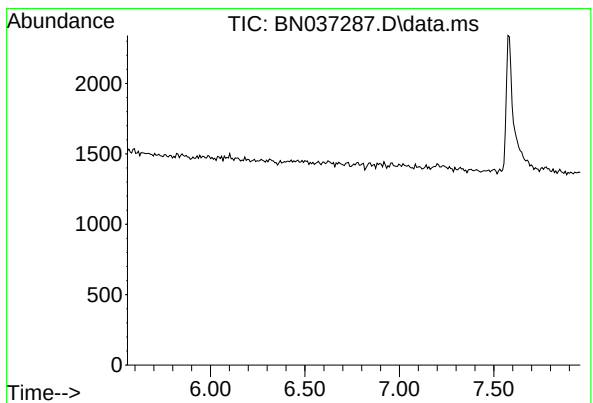
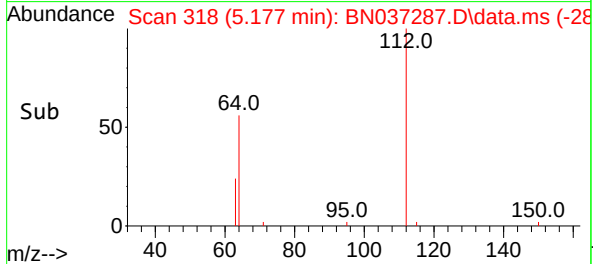
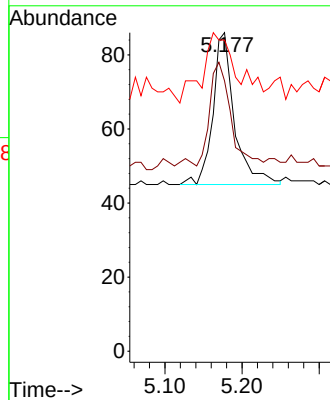
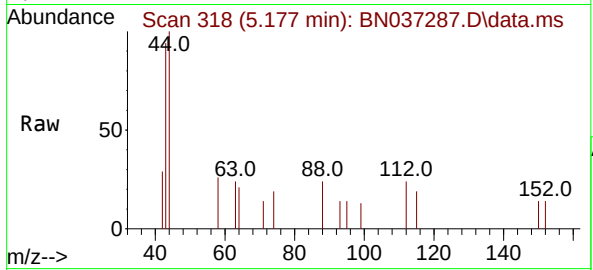




#4
2-Fluorophenol
Concen: 0.042 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

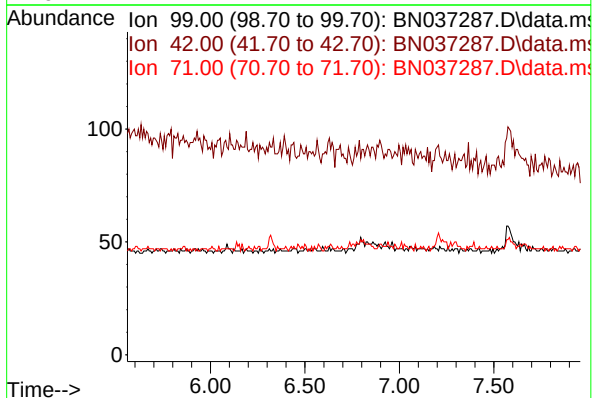
Tgt Ion:112 Resp: 79
Ion Ratio Lower Upper
112 100
64 65.8 57.2 85.8
63 62.0 39.8 59.6#

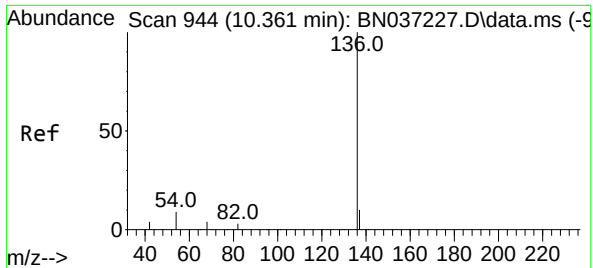


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.76 min

Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion: 99
Sig Exp Ratio
99 100
42 45.3
71 53.0

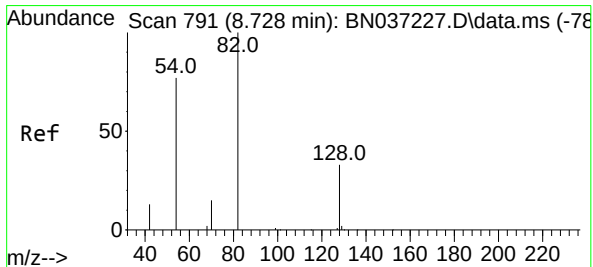
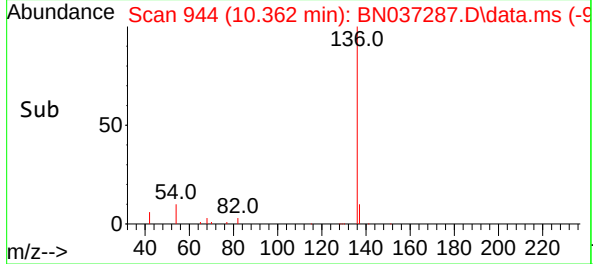
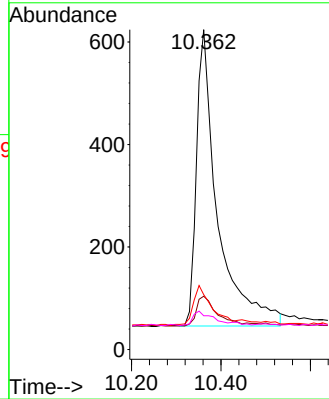
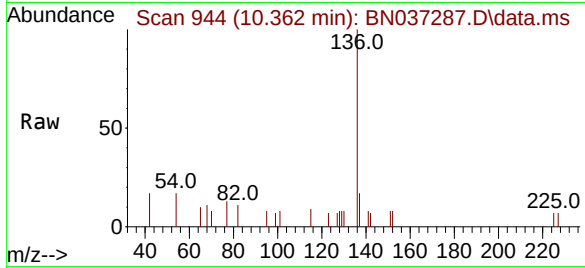




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

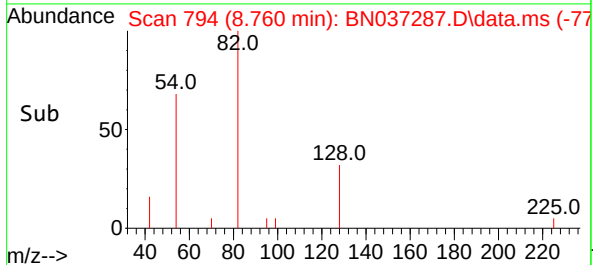
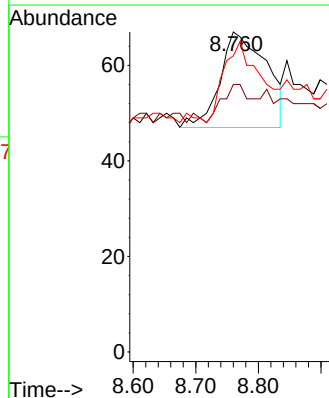
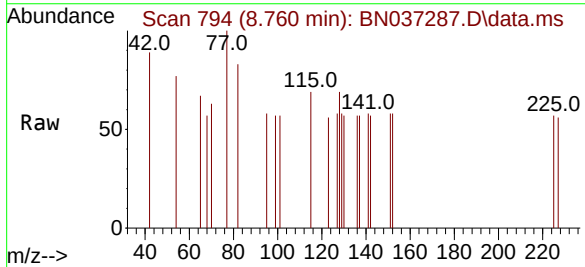
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

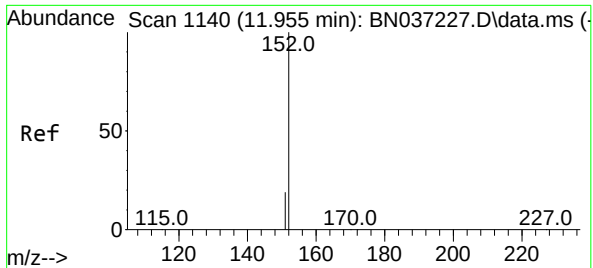
Tgt Ion:	136	Resp:	1898
Ion	Ratio	Lower	Upper
136	100		
137	16.7	10.6	15.8#
54	17.1	9.2	13.8#
68	10.6	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.054 ng
RT: 8.760 min Scan# 794
Delta R.T. 0.032 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:	82	Resp:	102
Ion	Ratio	Lower	Upper
82	100		
128	83.6	31.2	46.8#
54	92.5	63.3	94.9

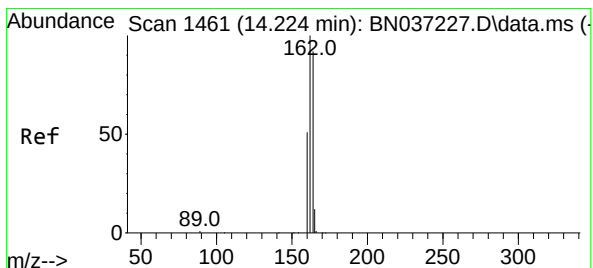
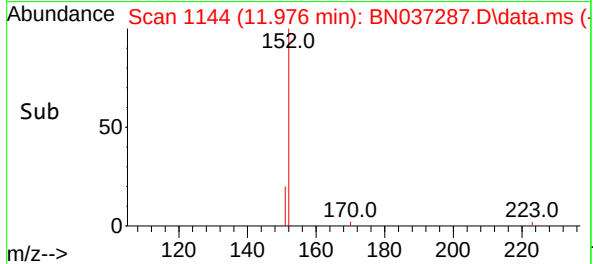
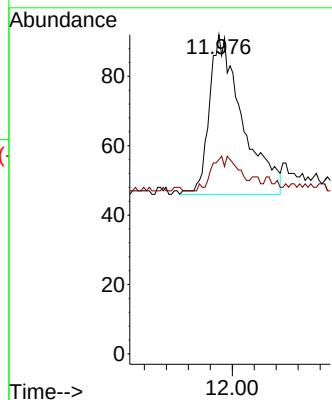
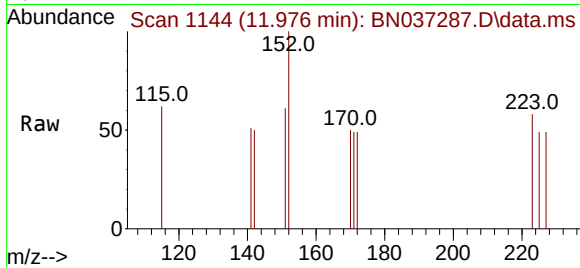




#11
2-Methylnaphthalene-d10
Concen: 0.075 ng
RT: 11.976 min Scan# 1144
Delta R.T. 0.020 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

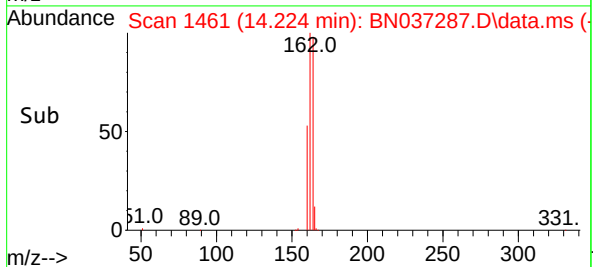
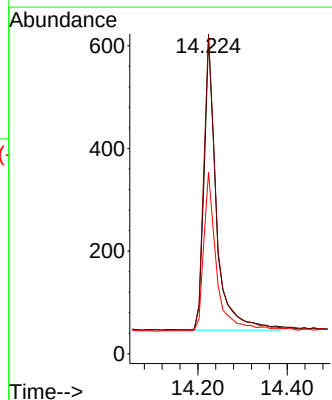
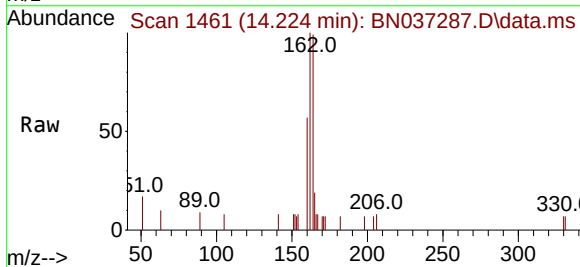
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

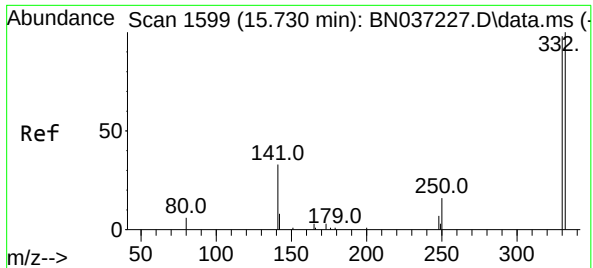
Tgt Ion:152 Resp: 192
Ion Ratio Lower Upper
152 100
151 8.9 17.9 26.9#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:164 Resp: 1101
Ion Ratio Lower Upper
164 100
162 101.3 86.7 130.1
160 57.6 45.8 68.6

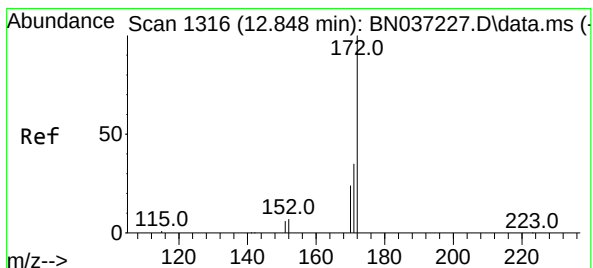
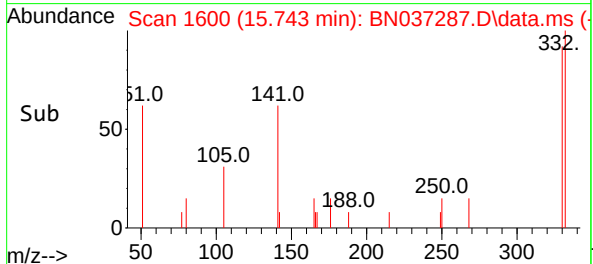
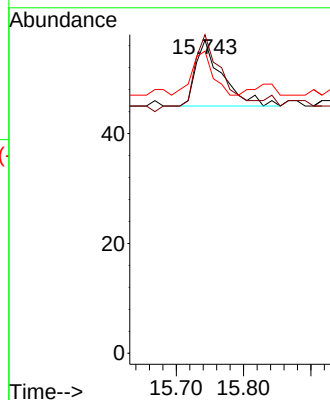
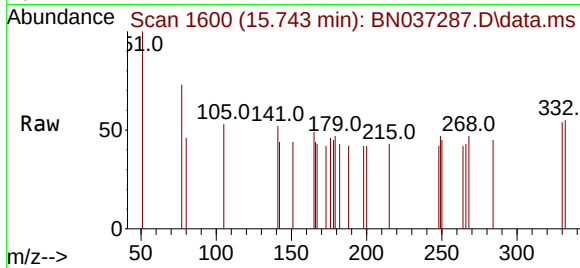




#14
2,4,6-Tribromophenol
Concen: 0.072 ng
RT: 15.743 min Scan# 1
Delta R.T. 0.013 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

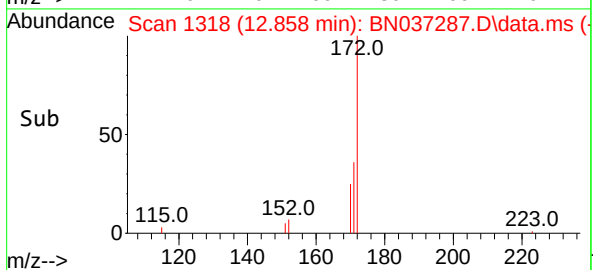
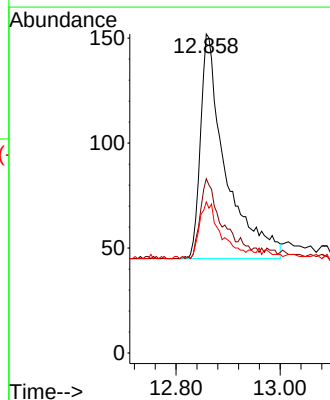
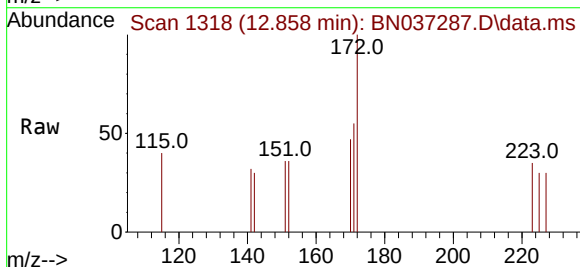
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

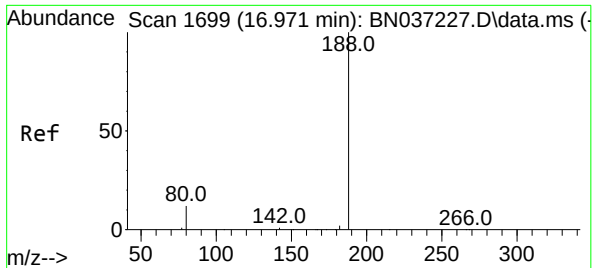
Tgt Ion:330 Resp: 33
Ion Ratio Lower Upper
330 100
332 127.3 74.9 112.3#
141 51.5 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.077 ng
RT: 12.858 min Scan# 1318
Delta R.T. 0.010 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:172 Resp: 357
Ion Ratio Lower Upper
172 100
171 54.6 29.8 44.8#
170 47.4 21.1 31.7#

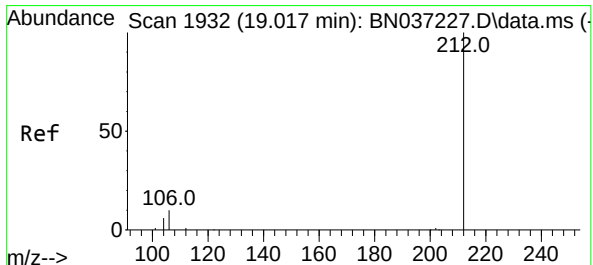
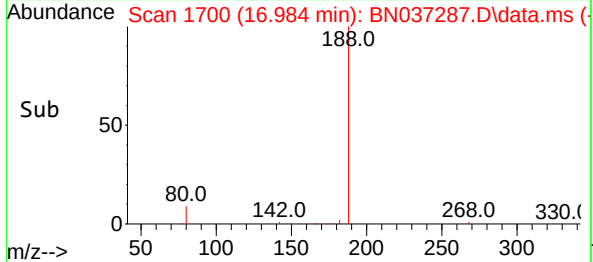
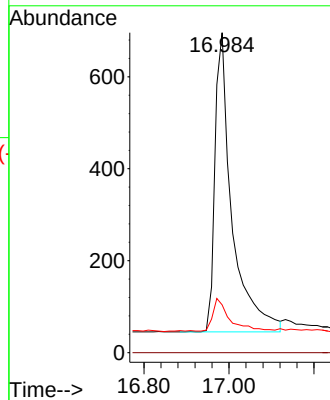
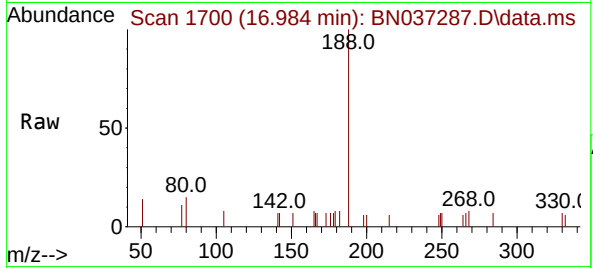




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

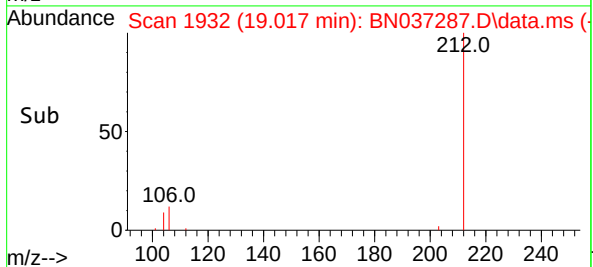
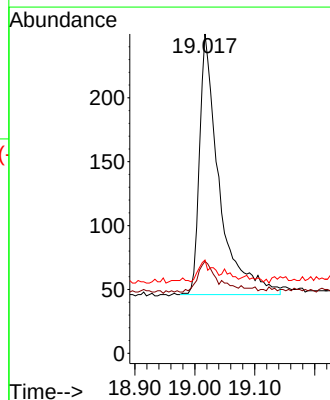
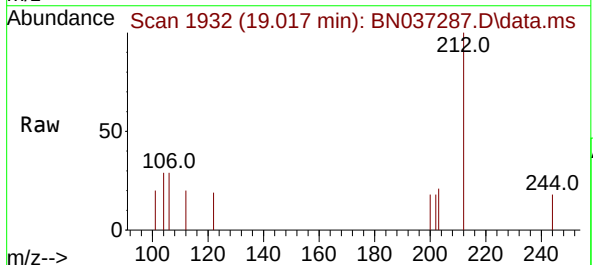
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

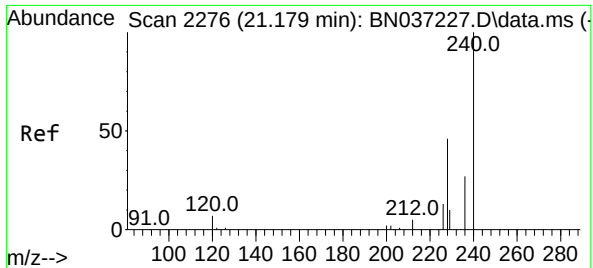
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	12.2	18.4



#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.3	13.9
104	5.8	5.7	8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037287.D

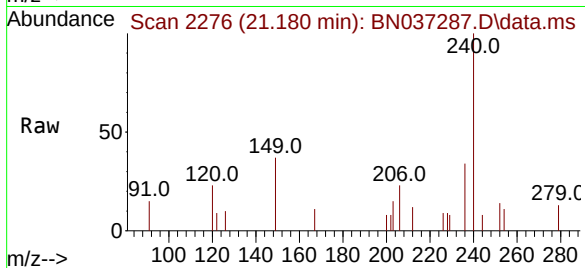
Acq: 16 Jun 2025 12:15

Instrument :

BNA_N

ClientSampleId :

RE131D2-20250610DL



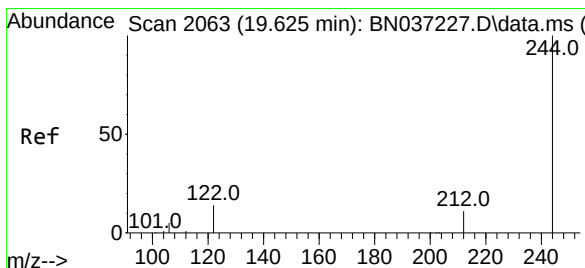
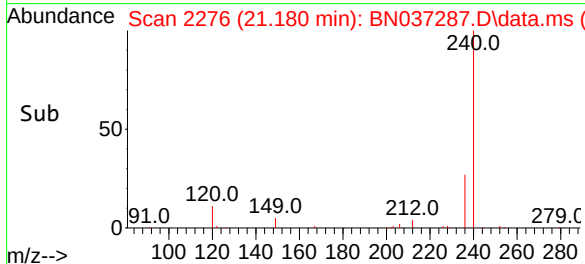
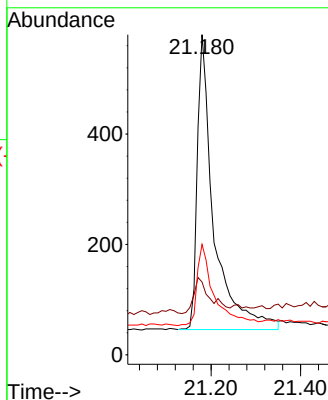
Tgt Ion:240 Resp: 1371

Ion Ratio Lower Upper

240 100

120 22.8 11.3 16.9#

236 34.5 24.4 36.6



#31

Terphenyl-d14

Concen: 0.121 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037287.D

Acq: 16 Jun 2025 12:15

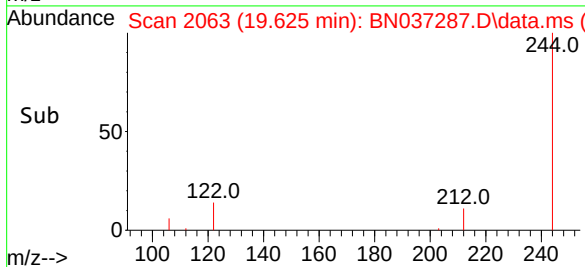
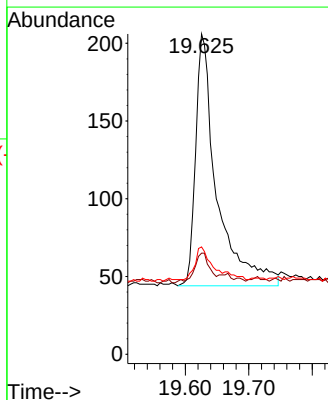
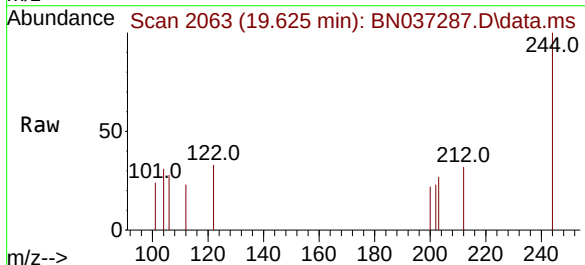
Tgt Ion:244 Resp: 376

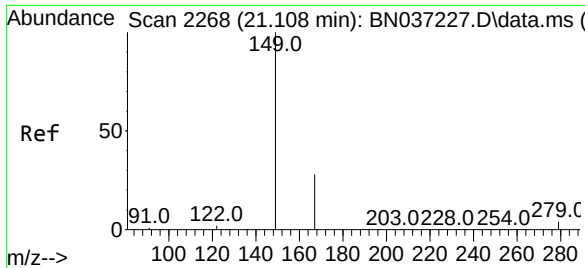
Ion Ratio Lower Upper

244 100

212 31.6 12.2 18.2#

122 33.5 14.3 21.5#

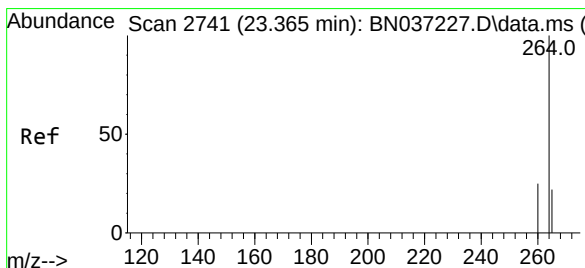
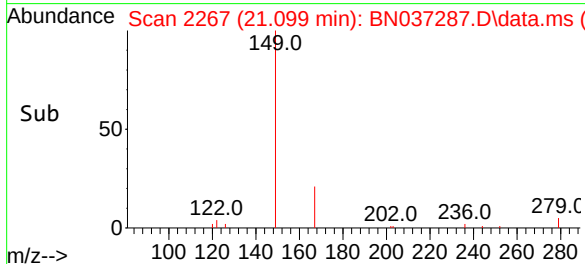
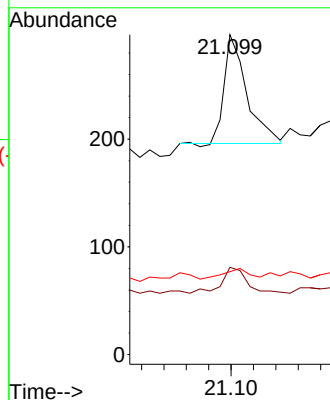
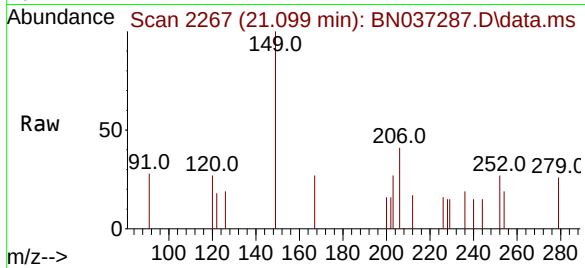




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.041 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

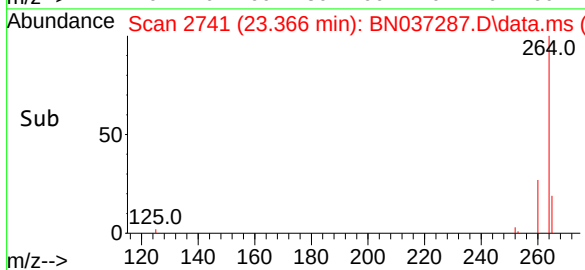
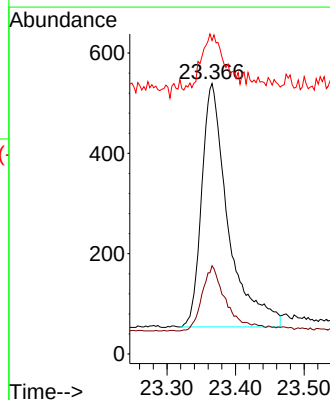
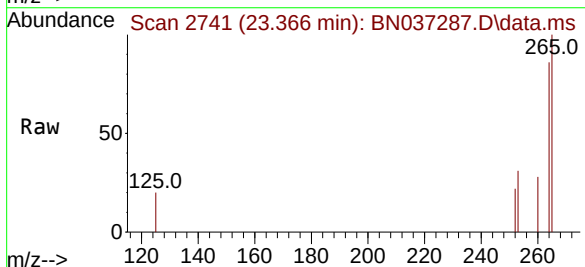
Instrument :
BNA_N
ClientSampleId :
RE131D2-20250610DL

Tgt Ion:149 Resp: 141
Ion Ratio Lower Upper
149 100
167 26.2 21.3 31.9
279 11.3 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2741
Delta R.T. 0.000 min
Lab File: BN037287.D
Acq: 16 Jun 2025 12:15

Tgt Ion:264 Resp: 1300
Ion Ratio Lower Upper
264 100
260 32.7 22.8 34.2
265 116.0 66.4 99.6#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP02-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-14	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
BN037261.D	1	06/13/25 08:03	06/14/25 14:35	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.40	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	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.85	*	58 - 132		212%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	856	7.575				
1146-65-2	Naphthalene-d8	2180	10.351				
15067-26-2	Acenaphthene-d10	1130	14.224				
1517-22-2	Phenanthrene-d10	2250	16.971				
1719-03-5	Chrysene-d12	1730	21.171				
1520-96-3	Perylene-d12	1720	23.36				

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\BN061325\
 Data File : BN037261.D
 Acq On : 14 Jun 2025 14:35
 Operator : RC/JU
 Sample : Q2299-14
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20250610

Quant Time: Jun 16 02:43:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

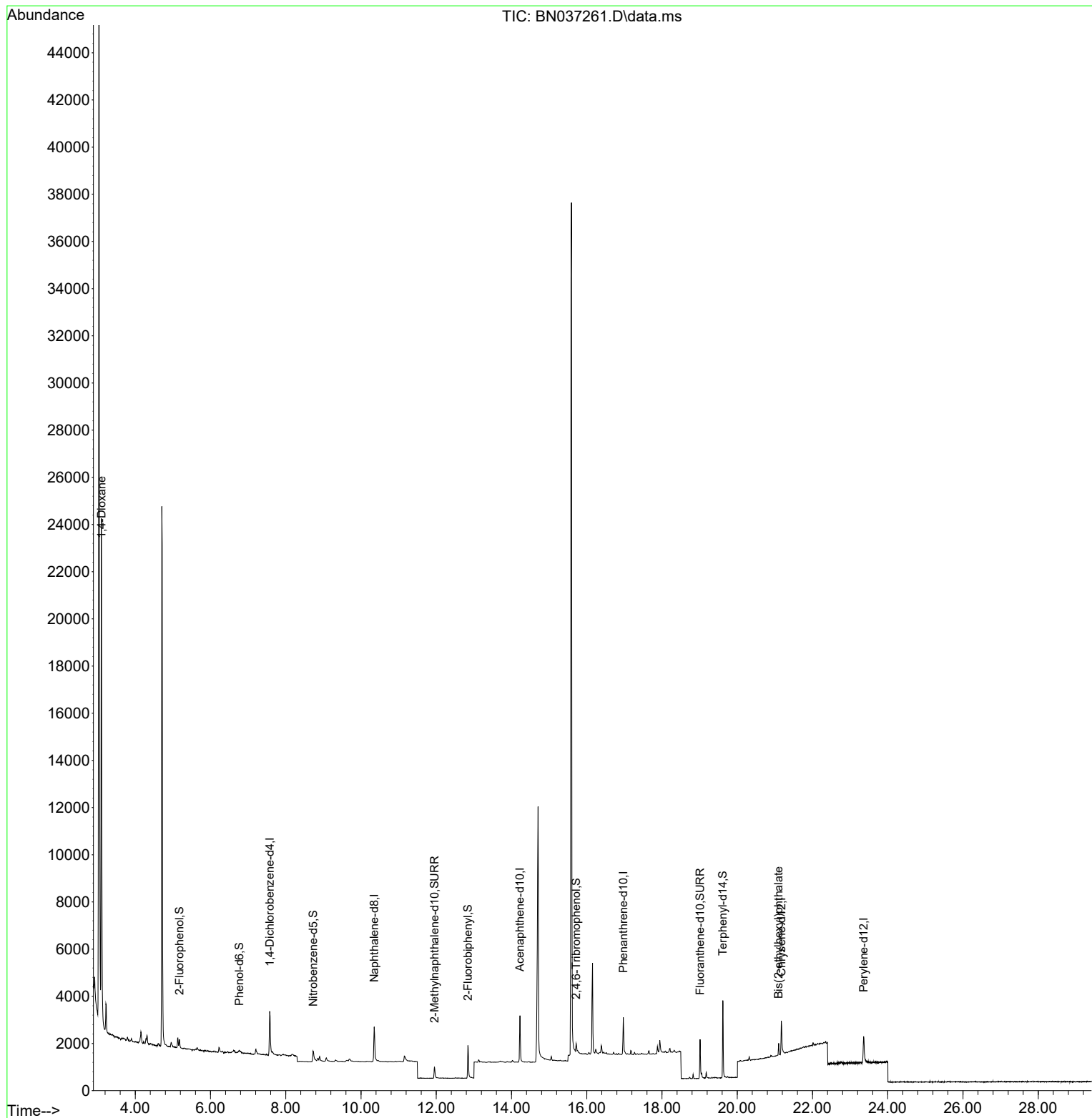
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	856	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2177	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1128	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2247	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	255	0.121	ng	0.00
5) Phenol-d6	6.766	99	127	0.057	ng	0.00
8) Nitrobenzene-d5	8.728	82	548	0.255	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	801	0.274	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	197	0.420	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	1348	0.284	ng	0.00
27) Fluoranthene-d10	19.012	212	2074	0.353	ng	0.00
31) Terphenyl-d14	19.616	244	3320	0.847	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	9919	8.446	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	465	0.107	ng	99

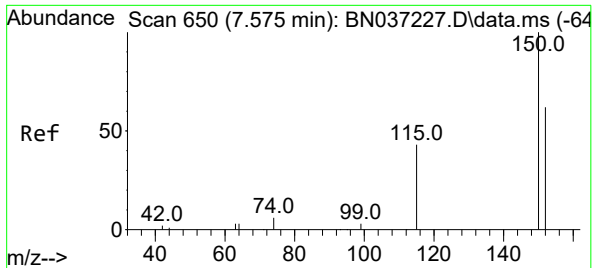
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037261.D
Acq On : 14 Jun 2025 14:35
Operator : RC/JU
Sample : Q2299-14
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

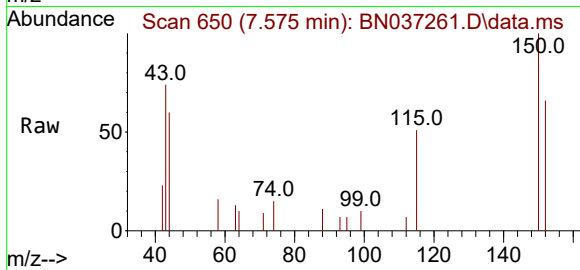
Quant Time: Jun 16 02:43:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



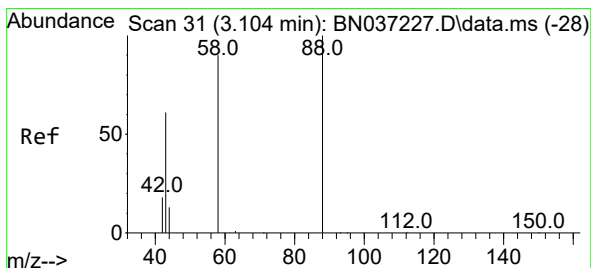
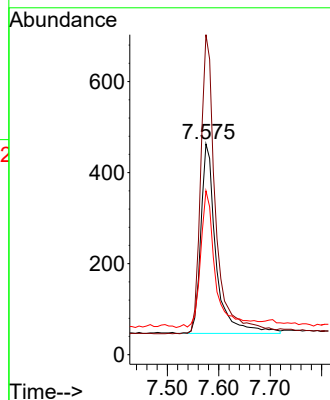
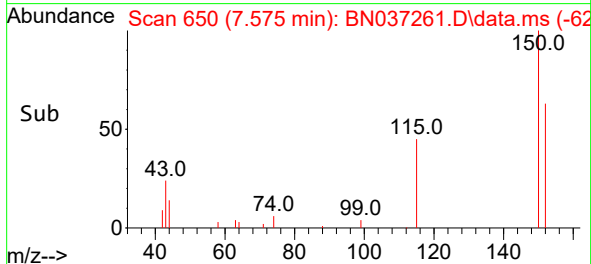


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

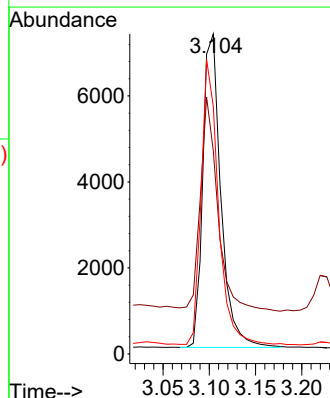
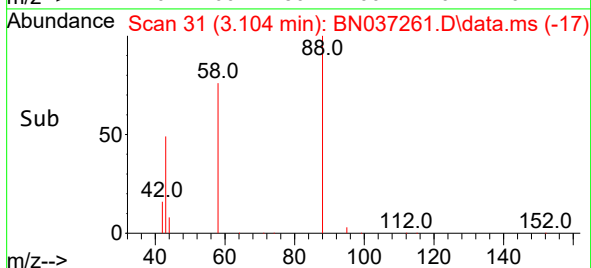
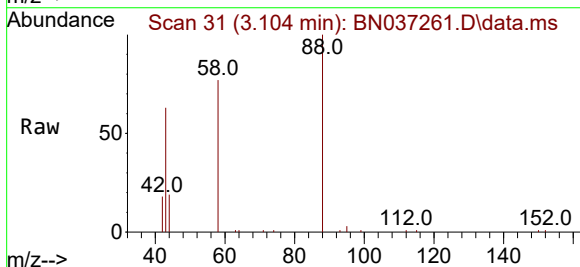


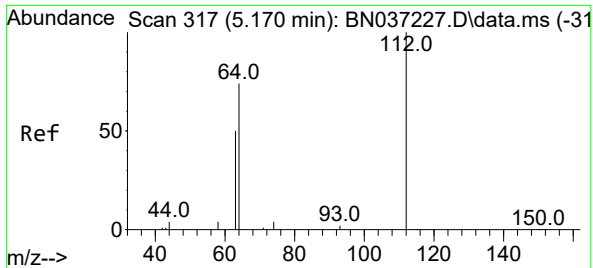
Tgt Ion:152 Resp: 856
Ion Ratio Lower Upper
152 100
150 151.8 125.2 187.8
115 77.8 58.4 87.6



#2
1,4-Dioxane
Concen: 8.446 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion: 88 Resp: 9919
Ion Ratio Lower Upper
88 100
43 65.5 52.6 79.0
58 86.0 73.5 110.3

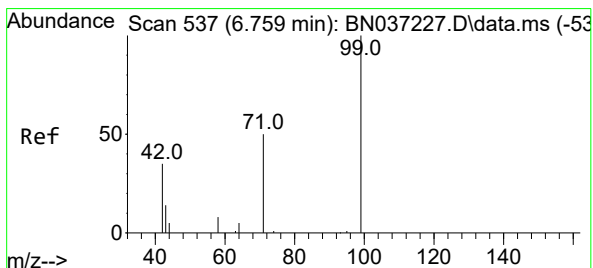
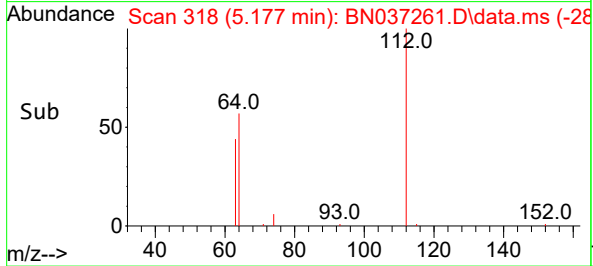
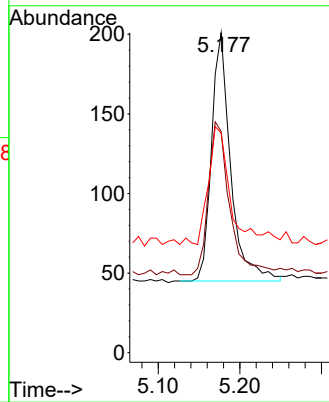
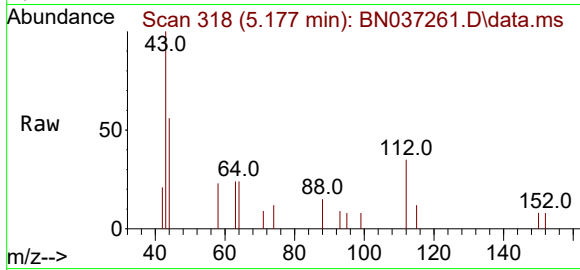




#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

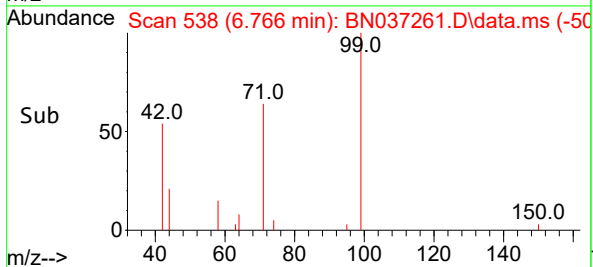
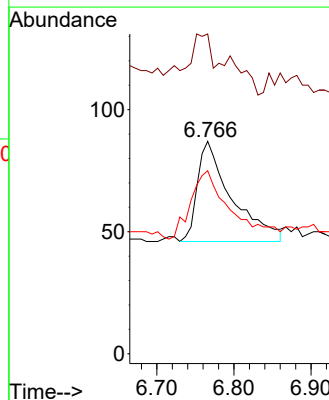
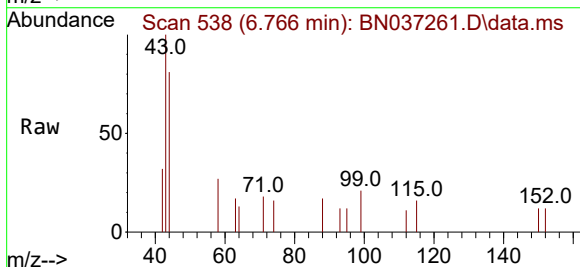
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

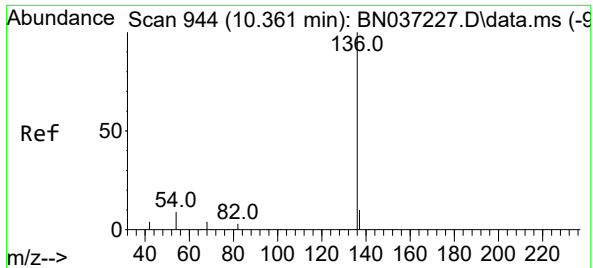
Tgt Ion:112 Resp: 255
Ion Ratio Lower Upper
112 100
64 67.8 57.2 85.8
63 61.2 39.8 59.6#



#5
Phenol-d6
Concen: 0.057 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion: 99 Resp: 127
Ion Ratio Lower Upper
99 100
42 18.1 36.2 54.4#
71 78.7 42.4 63.6#

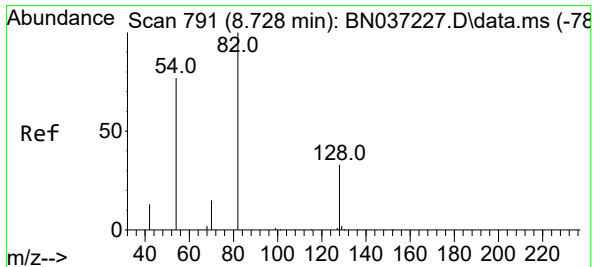
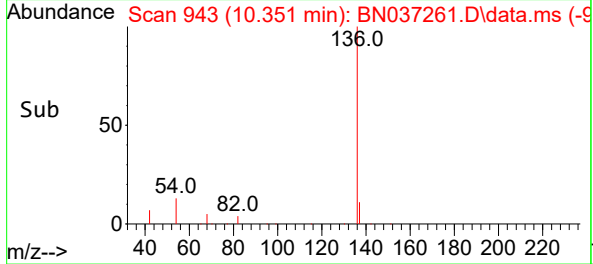
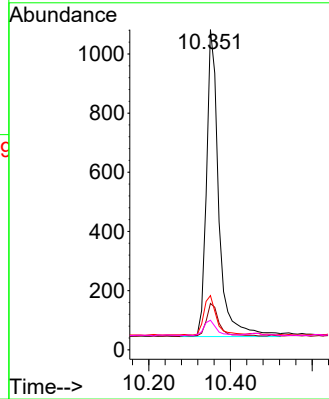
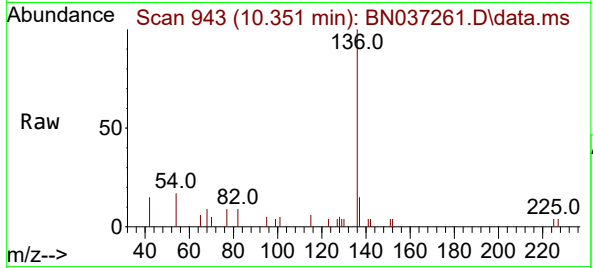




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

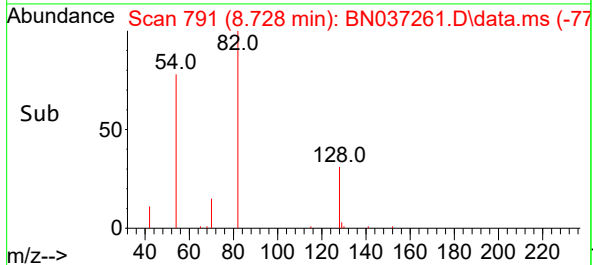
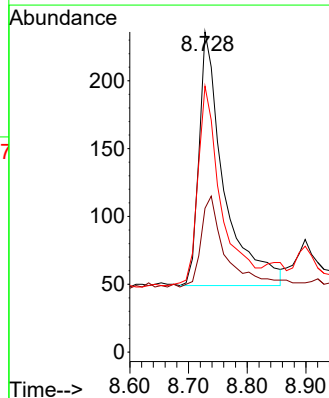
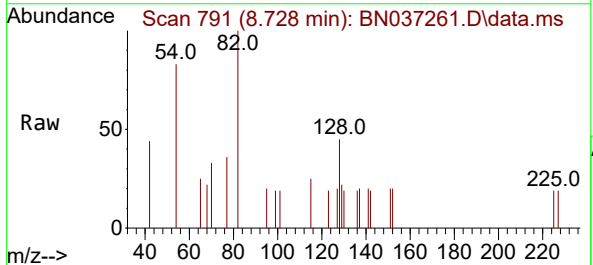
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

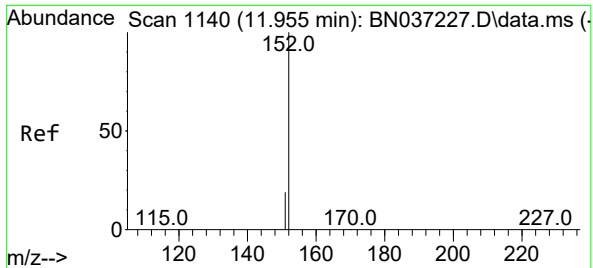
Tgt Ion:	136	Resp:	2177
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	16.9	9.2	13.8#
68	9.2	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.255 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:	82	Resp:	548
Ion	Ratio	Lower	Upper
82	100		
128	44.9	31.2	46.8
54	83.1	63.3	94.9

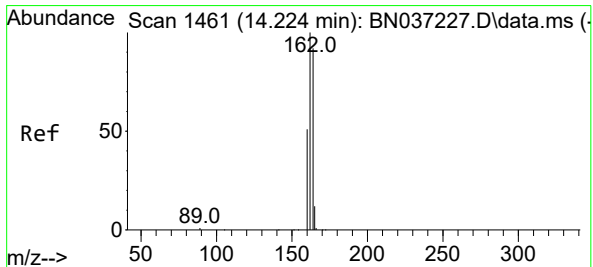
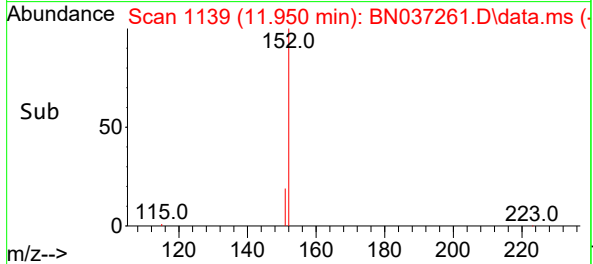
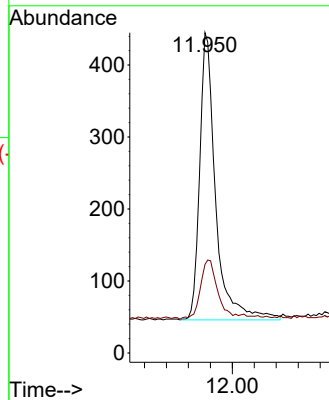
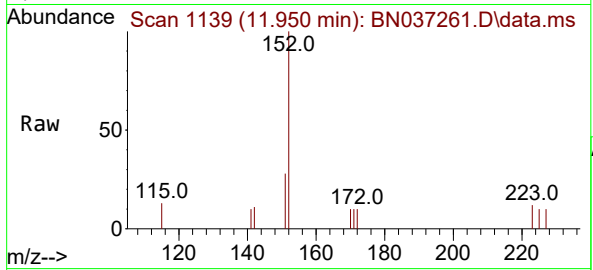




#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

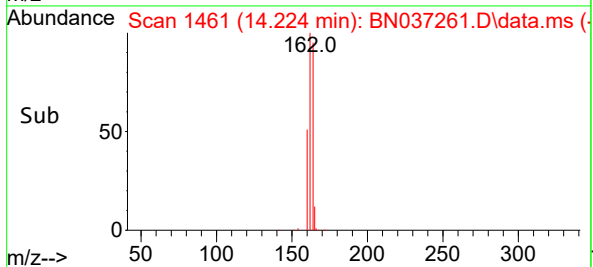
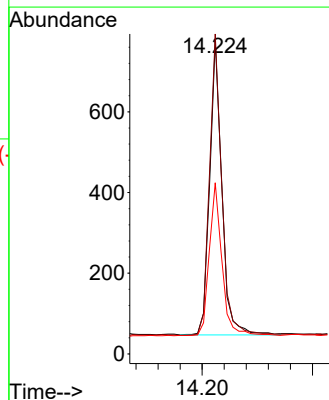
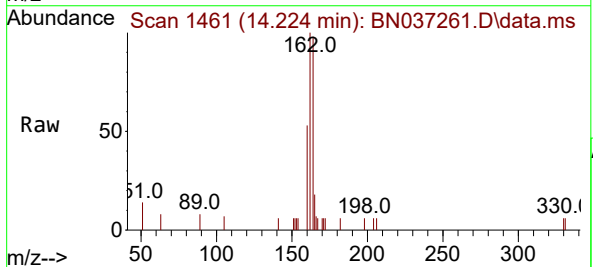
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

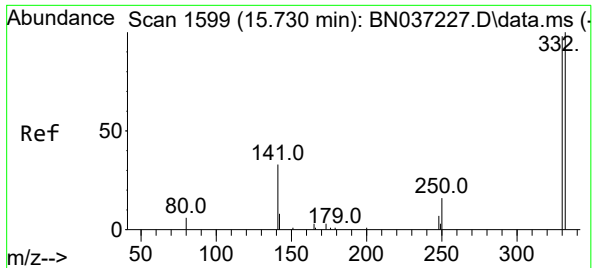
Tgt Ion:152 Resp: 801
Ion Ratio Lower Upper
152 100
151 22.3 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:164 Resp: 1128
Ion Ratio Lower Upper
164 100
162 102.1 86.7 130.1
160 54.6 45.8 68.6

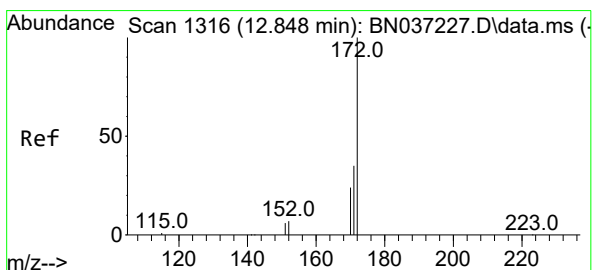
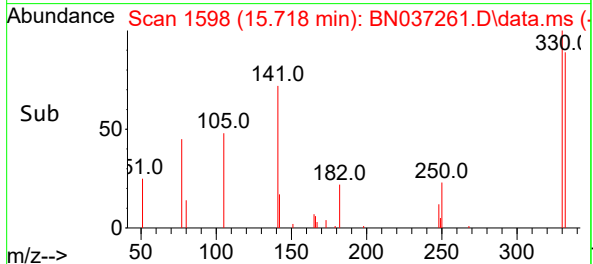
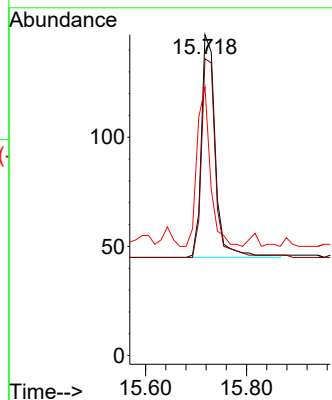
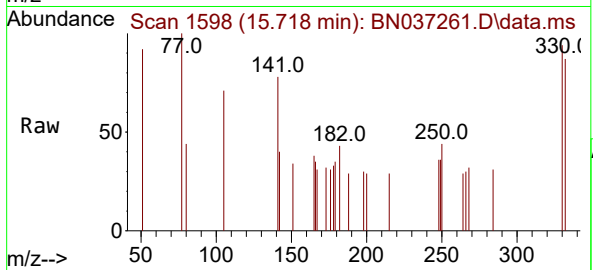




#14
2,4,6-Tribromophenol
Concen: 0.420 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

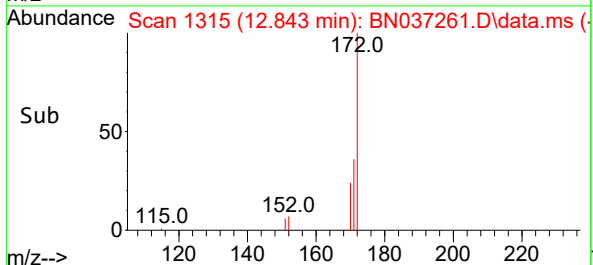
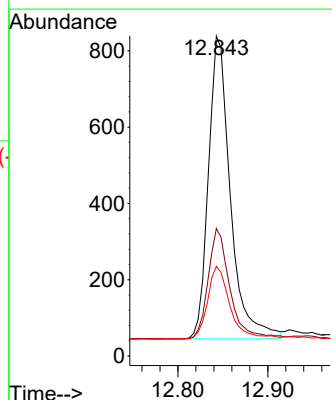
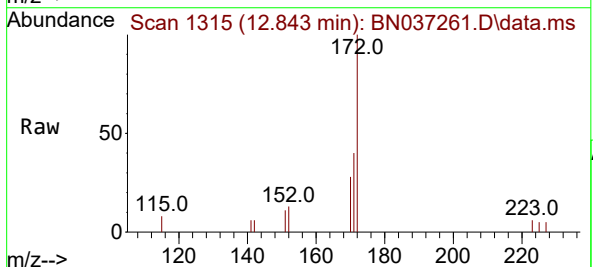
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

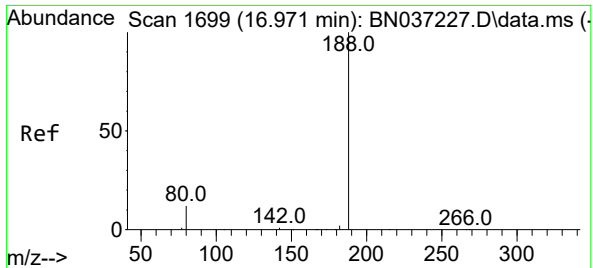
Tgt Ion:330 Resp: 197
Ion Ratio Lower Upper
330 100
332 90.4 74.9 112.3
141 68.0 45.1 67.7#



#15
2-Fluorobiphenyl
Concen: 0.284 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:172 Resp: 1348
Ion Ratio Lower Upper
172 100
171 39.8 29.8 44.8
170 28.0 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037261.D

Acq: 14 Jun 2025 14:35

Instrument :

BNA_N

ClientSampleId :

DUP02-20250610

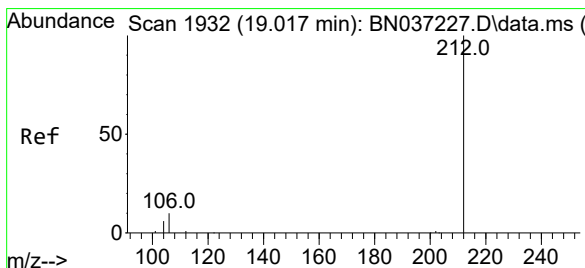
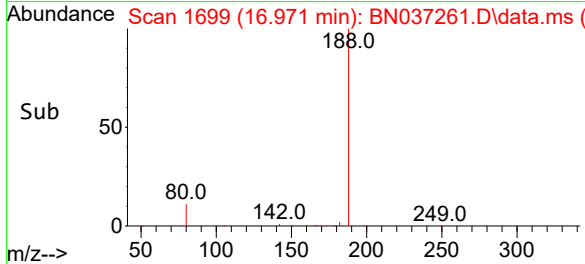
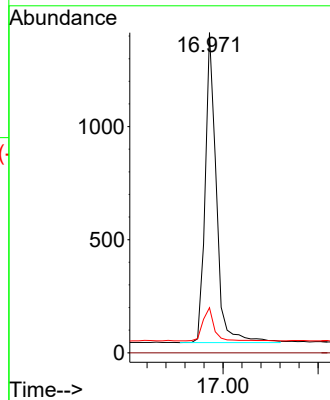
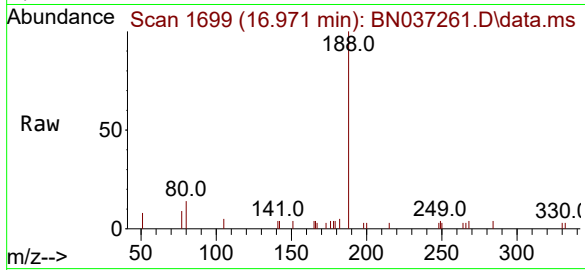
Tgt Ion:188 Resp: 2247

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.353 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037261.D

Acq: 14 Jun 2025 14:35

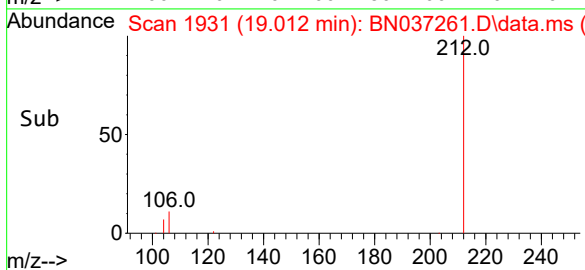
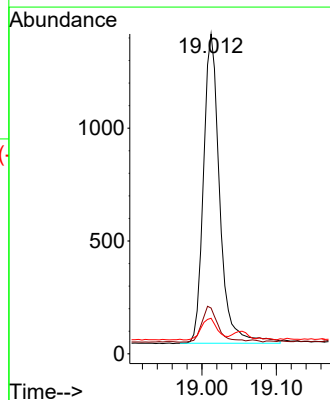
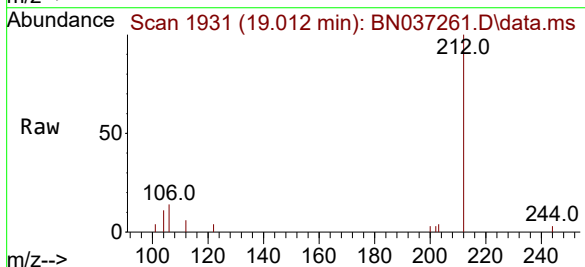
Tgt Ion:212 Resp: 2074

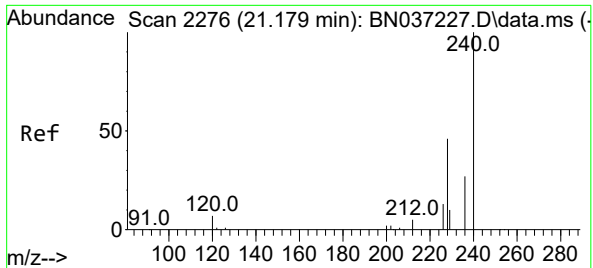
Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 6.9 5.7 8.5

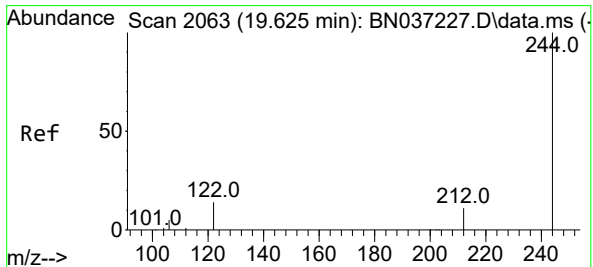
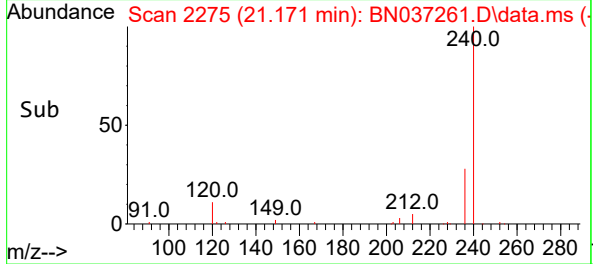
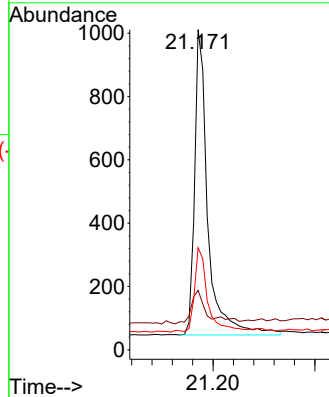
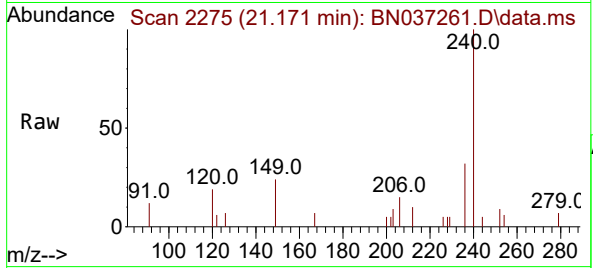




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

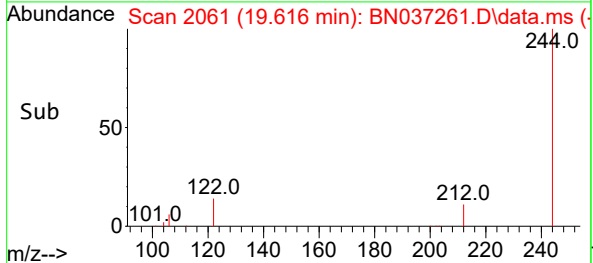
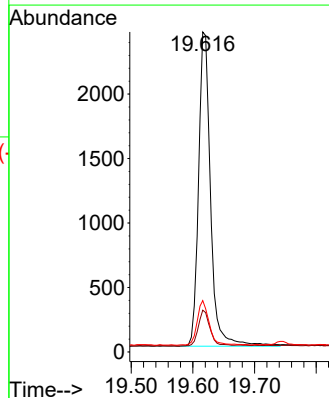
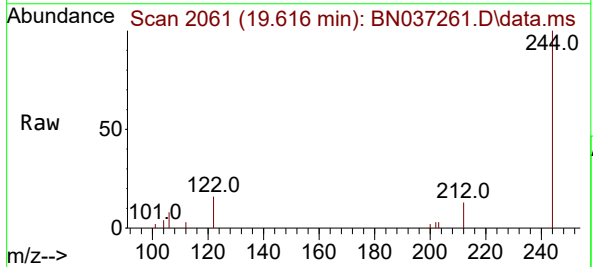
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

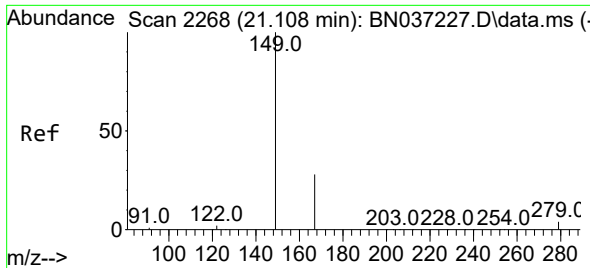
Tgt Ion:240 Resp: 1734
Ion Ratio Lower Upper
240 100
120 18.6 11.3 16.9#
236 31.8 24.4 36.6



#31
Terphenyl-d14
Concen: 0.847 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:244 Resp: 3320
Ion Ratio Lower Upper
244 100
212 13.1 12.2 18.2
122 16.1 14.3 21.5

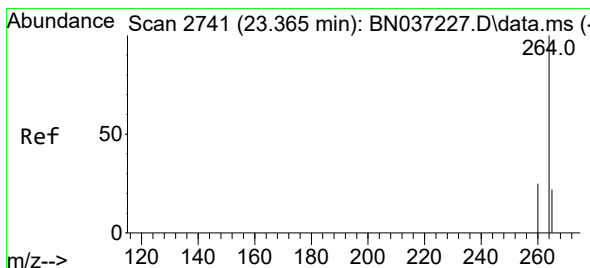
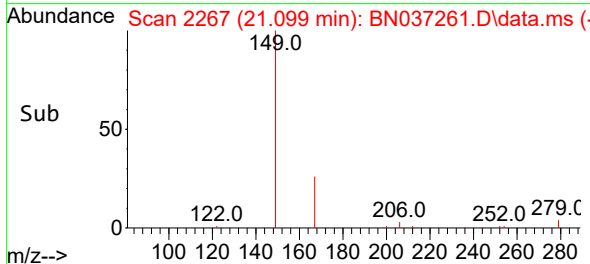
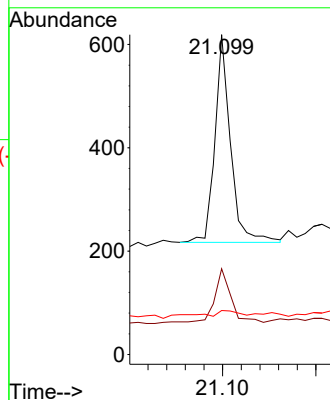
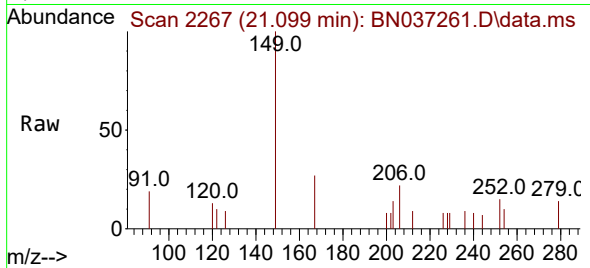




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.107 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

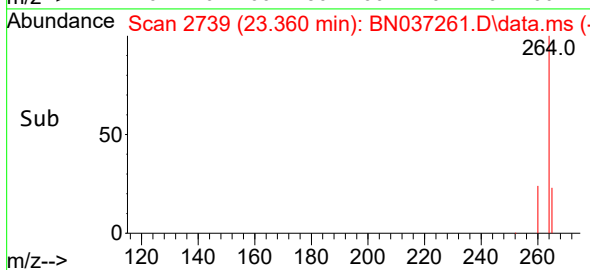
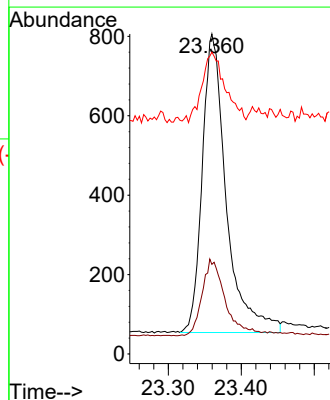
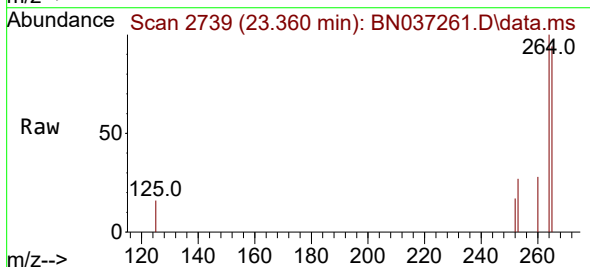
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610

Tgt Ion:149 Resp: 465
Ion Ratio Lower Upper
149 100
167 26.0 21.3 31.9
279 3.4 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037261.D
Acq: 14 Jun 2025 14:35

Tgt Ion:264 Resp: 1724
Ion Ratio Lower Upper
264 100
260 28.0 22.8 34.2
265 94.3 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	DUP02-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-14DL	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
BN037288.D	5	06/13/25 08:03	06/16/25 12:51	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.1	D	0.33	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.20	*	55 - 111		49%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.15	*	58 - 132		288%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	691		7.582			
1146-65-2	Naphthalene-d8	1770		10.362			
15067-26-2	Acenaphthene-d10	1010		14.224			
1517-22-2	Phenanthrene-d10	1900		16.971			
1719-03-5	Chrysene-d12	1310		21.18			
1520-96-3	Perylene-d12	1240		23.366			

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\BN061625\
 Data File : BN037288.D
 Acq On : 16 Jun 2025 12:51
 Operator : RC/JU
 Sample : Q2299-14DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP02-20250610DL

Quant Time: Jun 16 13:22:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

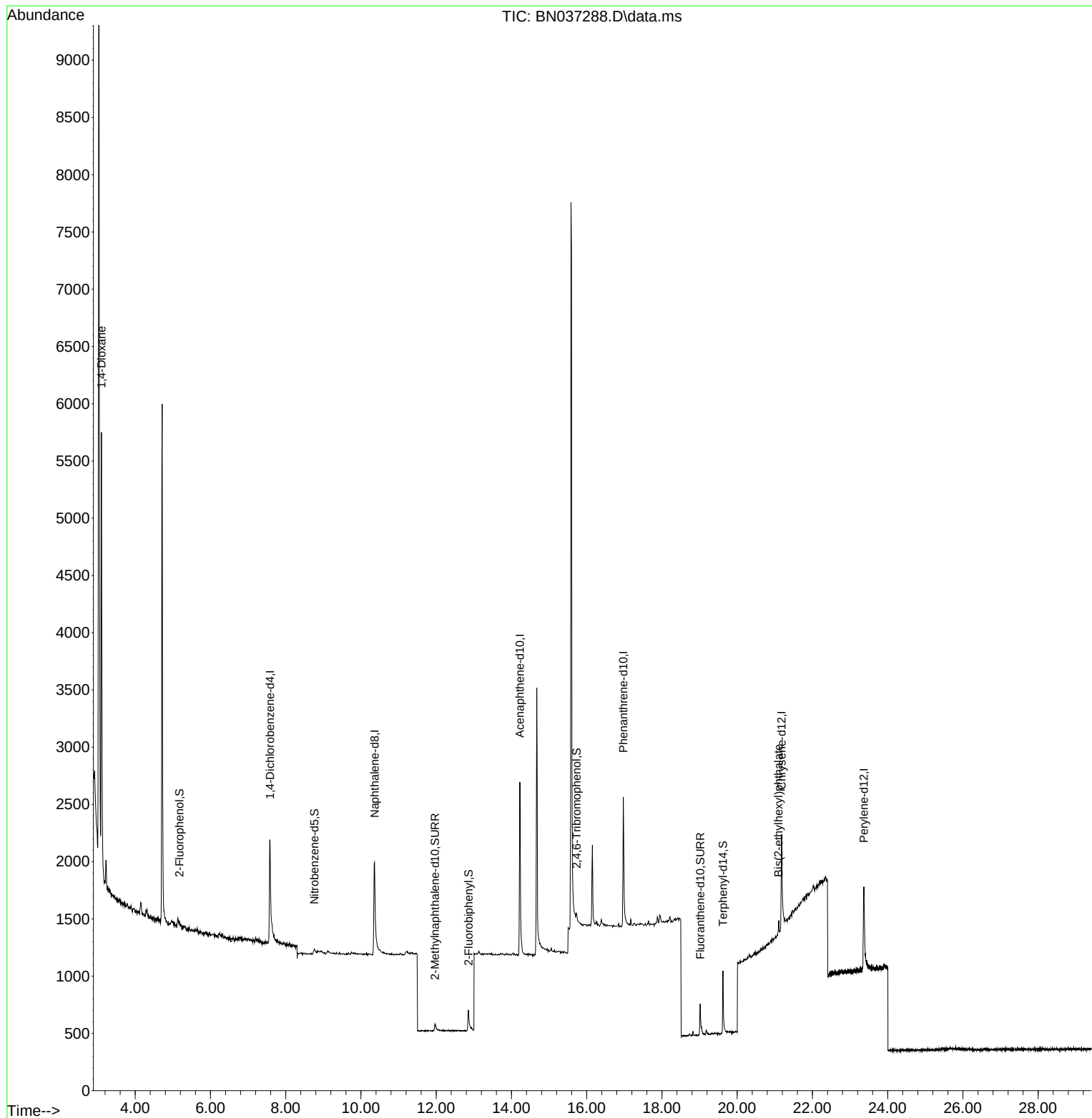
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	691	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	1765	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1009	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1902	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1313	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	1237	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	50	0.029	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.760	82	68	0.039	ng	0.03
11) 2-Methylnaphthalene-d10	11.965	152	145	0.061	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	43	0.103	ng	0.00
15) 2-Fluorobiphenyl	12.858	172	264	0.062	ng	0.01
27) Fluoranthene-d10	19.017	212	432	0.087	ng	0.00
31) Terphenyl-d14	19.621	244	682	0.230	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2099	2.214	ng	Qvalue 94
34) Bis(2-ethylhexyl)phtha...	21.099	149	204	0.062	ng	# 84

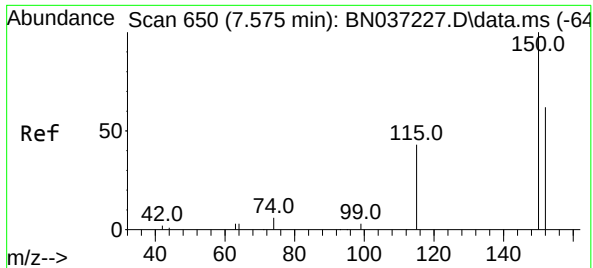
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037288.D
Acq On : 16 Jun 2025 12:51
Operator : RC/JU
Sample : Q2299-14DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

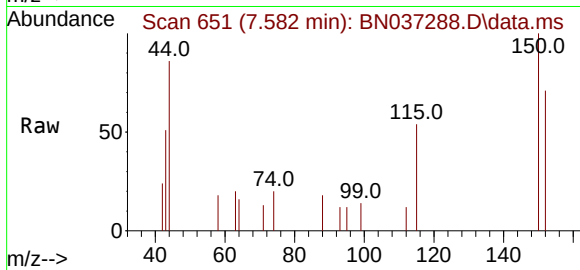
Quant Time: Jun 16 13:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



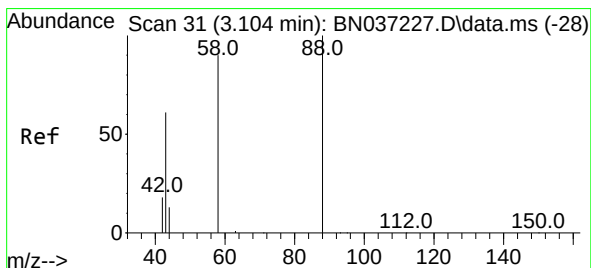
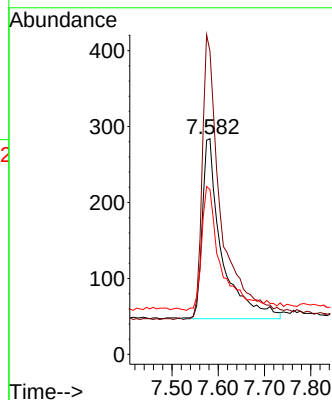
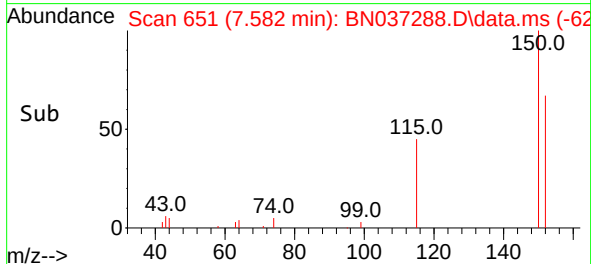


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

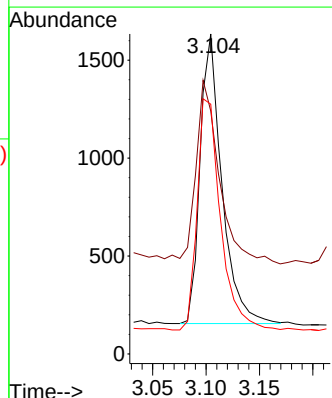
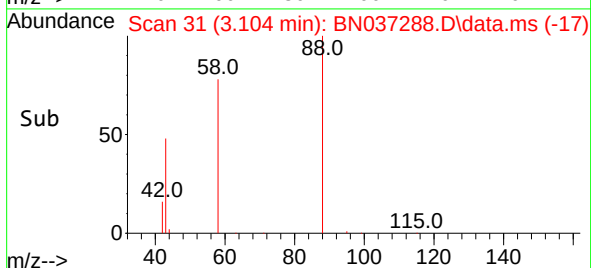
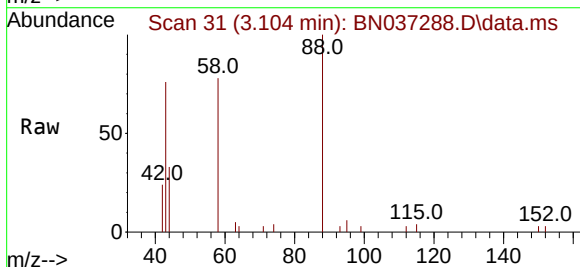


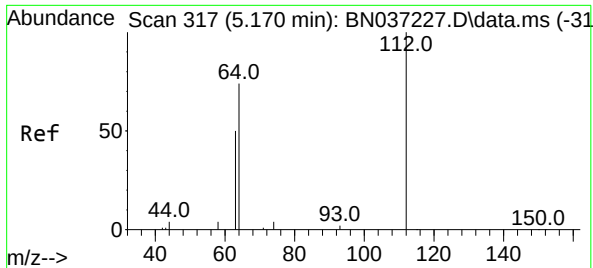
Tgt Ion:152 Resp: 691
Ion Ratio Lower Upper
152 100
150 140.5 125.2 187.8
115 76.4 58.4 87.6



#2
1,4-Dioxane
Concen: 2.214 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion: 88 Resp: 2099
Ion Ratio Lower Upper
88 100
43 69.2 52.6 79.0
58 85.7 73.5 110.3

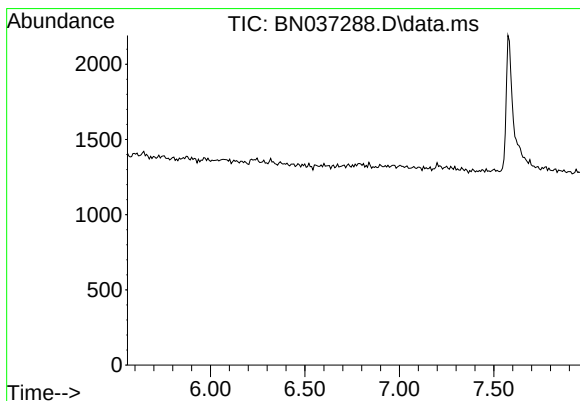
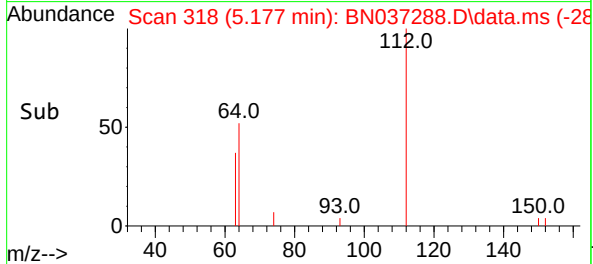
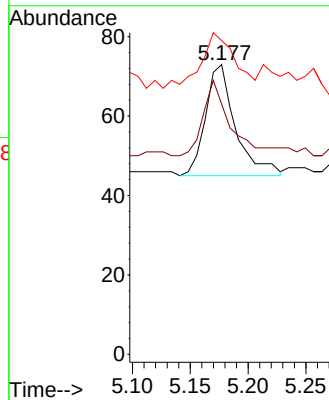
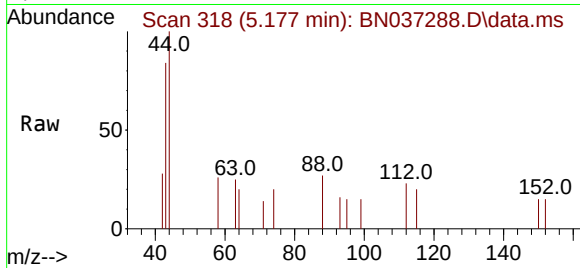




#4
2-Fluorophenol
Concen: 0.029 ng
RT: 5.177 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

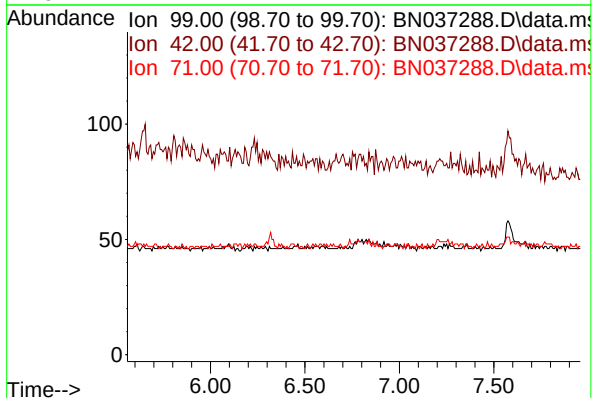
Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.0	57.2	85.8
63	56.0	39.8	59.6

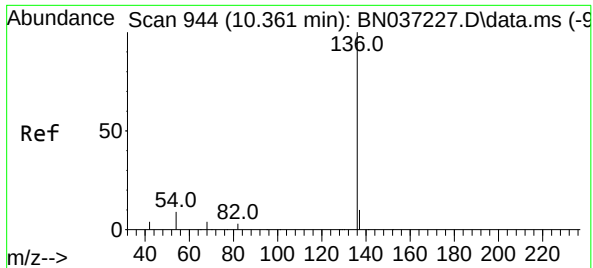


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.76 min

Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion	Sig	Exp Ratio
99	100	
42	45.3	
71	53.0	

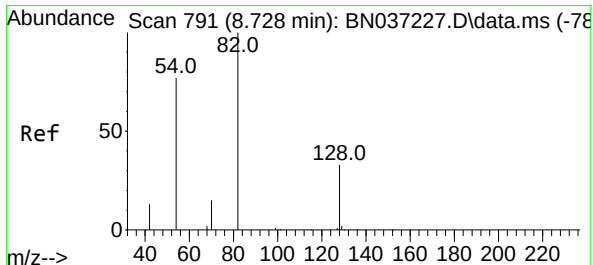
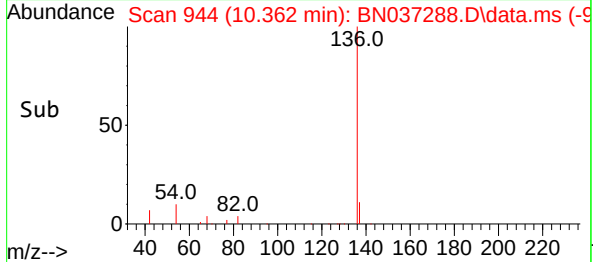
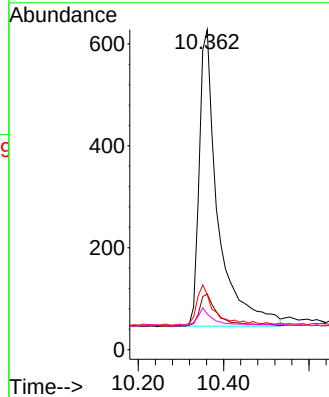
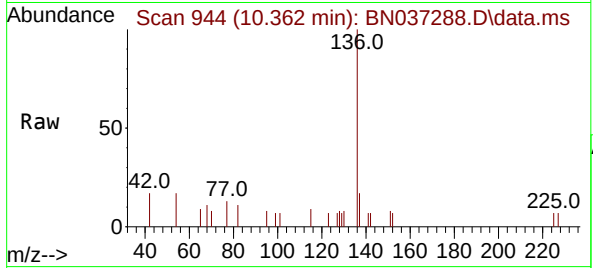




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

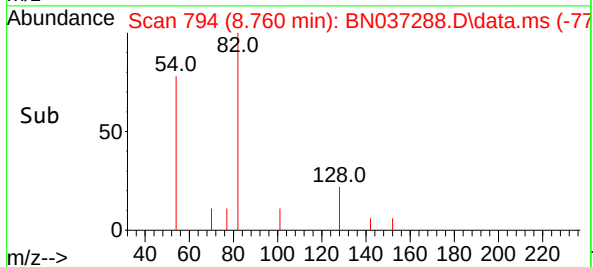
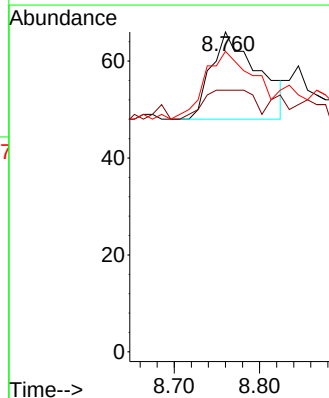
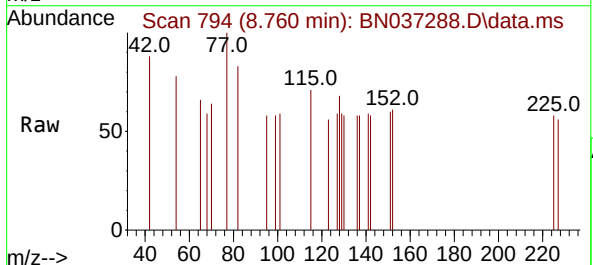
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

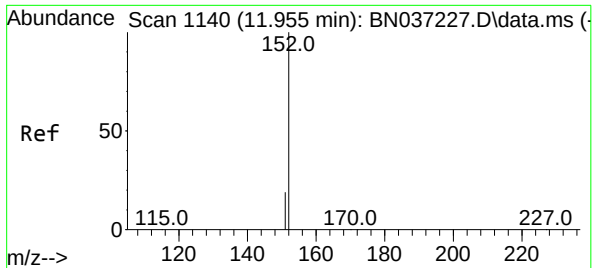
Tgt Ion:	136	Resp:	1765
Ion	Ratio	Lower	Upper
136	100		
137	17.4	10.6	15.8#
54	17.2	9.2	13.8#
68	11.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.039 ng
RT: 8.760 min Scan# 794
Delta R.T. 0.032 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:	82	Resp:	68
Ion	Ratio	Lower	Upper
82	100		
128	81.8	31.2	46.8#
54	93.9	63.3	94.9

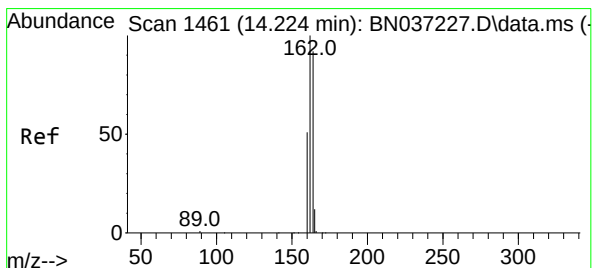
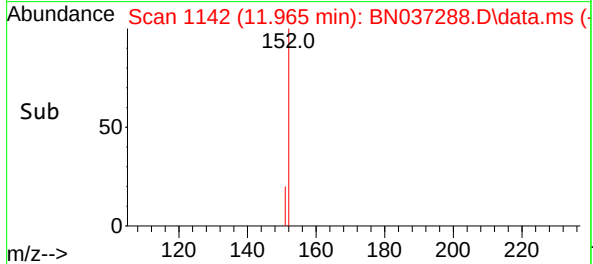
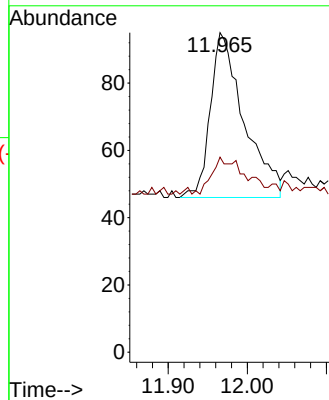
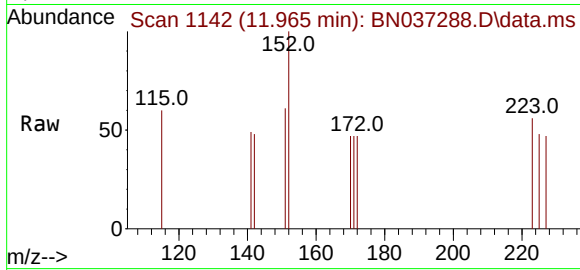




#11
2-Methylnaphthalene-d10
Concen: 0.061 ng
RT: 11.965 min Scan# 1142
Delta R.T. 0.010 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

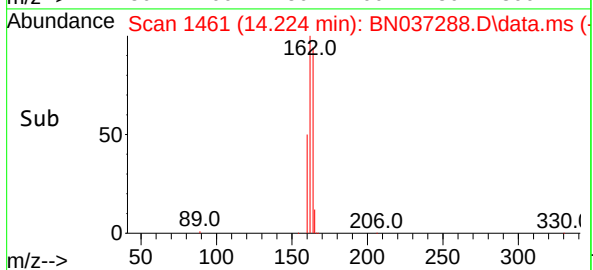
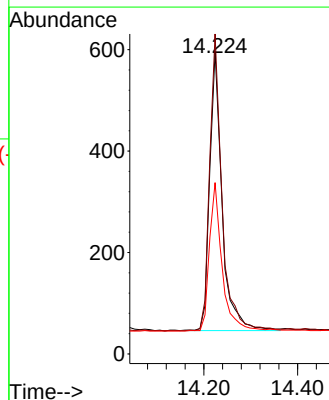
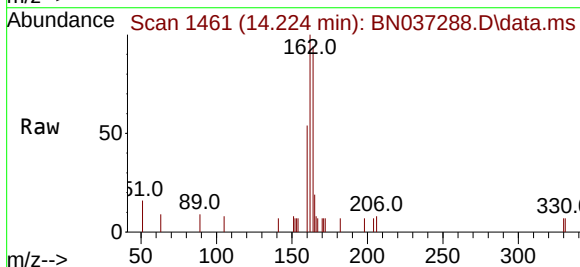
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

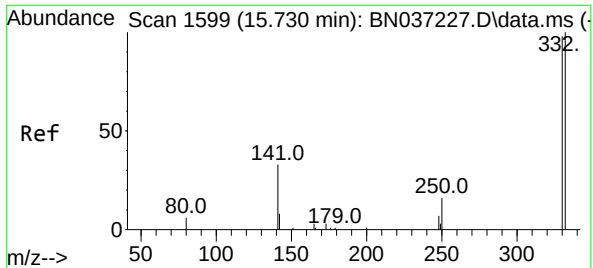
Tgt Ion:152 Resp: 145
Ion Ratio Lower Upper
152 100
151 22.1 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:164 Resp: 1009
Ion Ratio Lower Upper
164 100
162 105.9 86.7 130.1
160 56.7 45.8 68.6

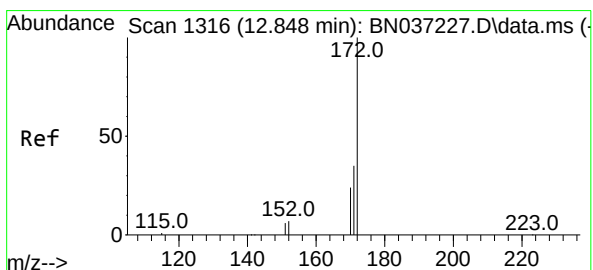
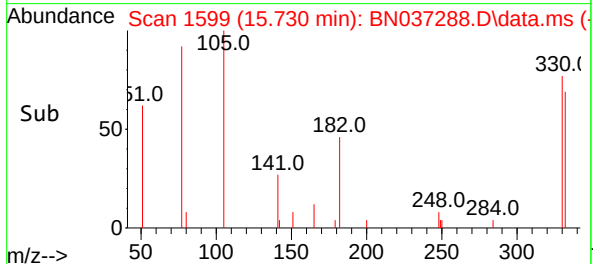
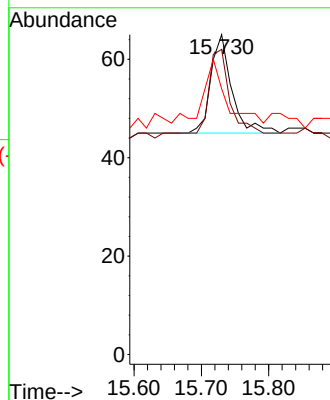
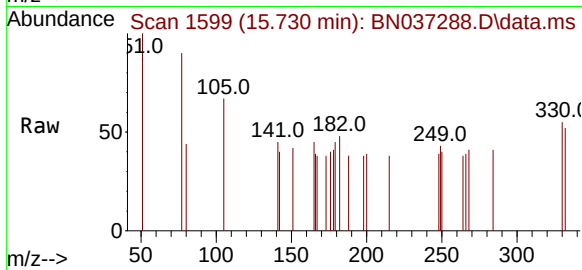




#14
2,4,6-Tribromophenol
Concen: 0.103 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

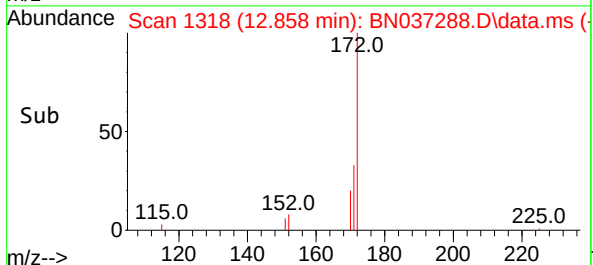
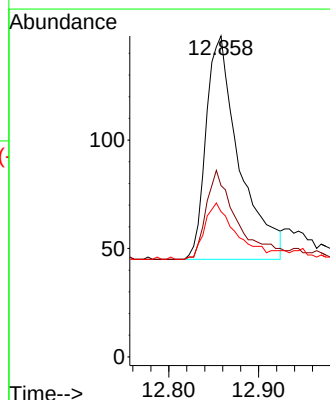
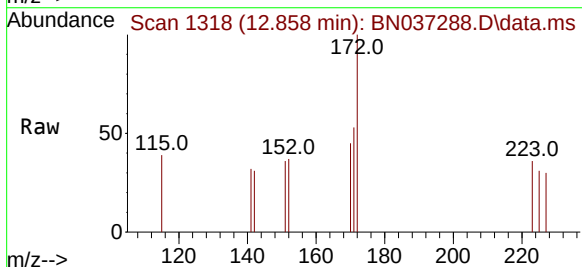
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

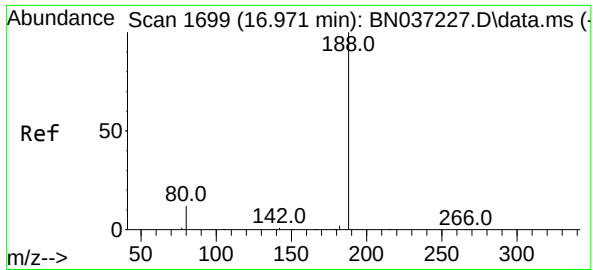
Tgt Ion:330 Resp: 43
Ion Ratio Lower Upper
330 100
332 90.7 74.9 112.3
141 76.7 45.1 67.7#



#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.858 min Scan# 1318
Delta R.T. 0.010 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:172 Resp: 264
Ion Ratio Lower Upper
172 100
171 53.4 29.8 44.8#
170 45.3 21.1 31.7#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037288.D

Acq: 16 Jun 2025 12:51

Instrument :

BNA_N

ClientSampleId :

DUP02-20250610DL

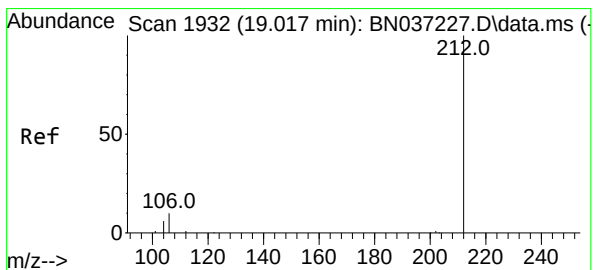
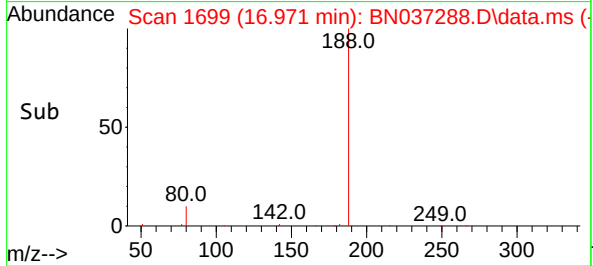
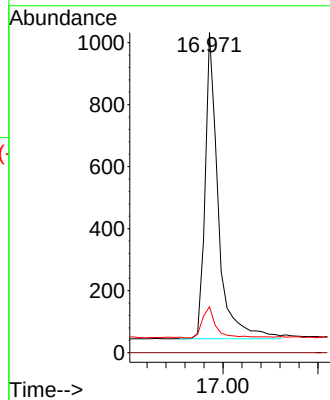
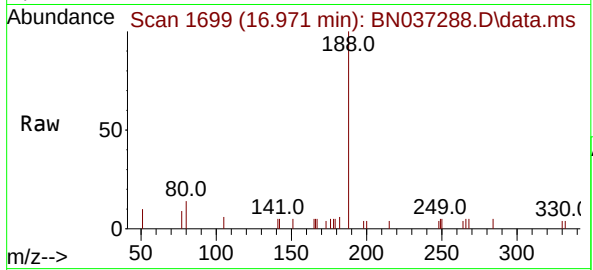
Tgt Ion:188 Resp: 1902

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.3 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037288.D

Acq: 16 Jun 2025 12:51

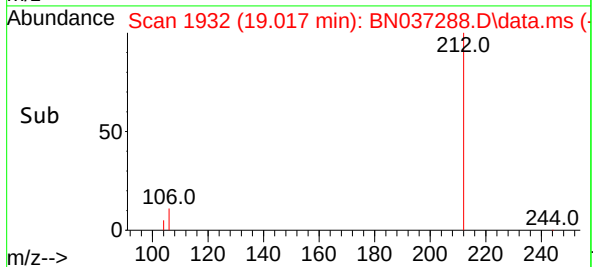
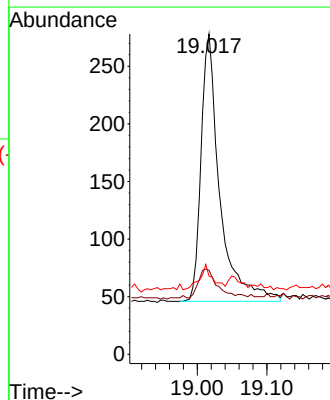
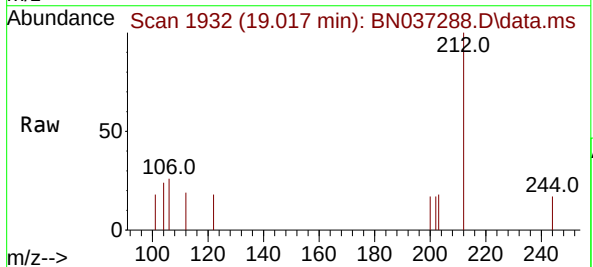
Tgt Ion:212 Resp: 432

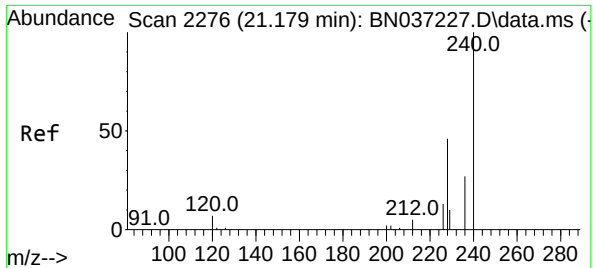
Ion Ratio Lower Upper

212 100

106 11.1 9.3 13.9

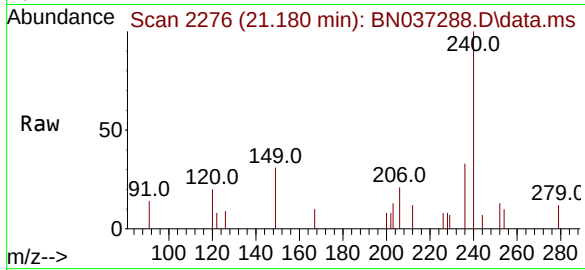
104 5.8 5.7 8.5



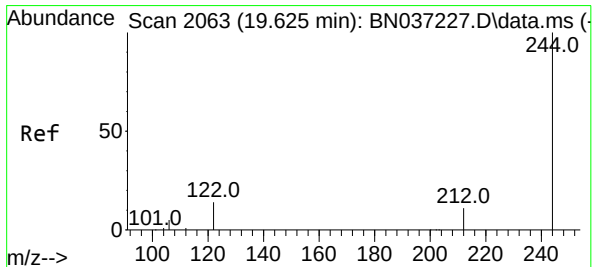
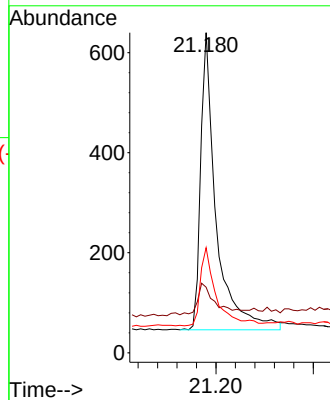
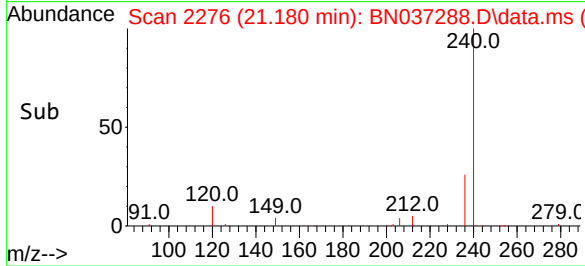


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

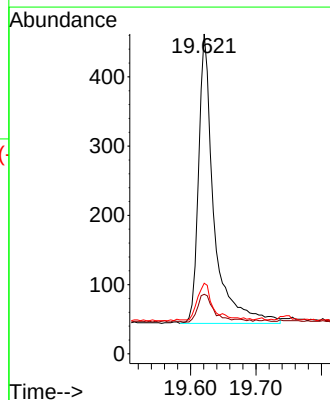
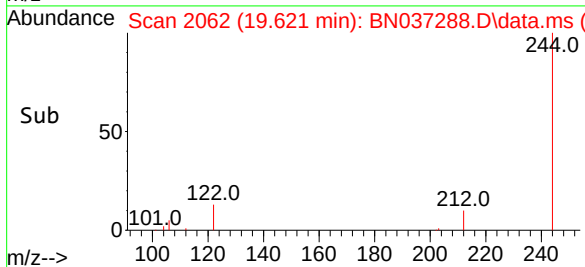
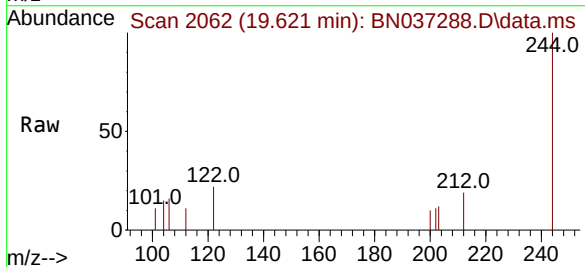


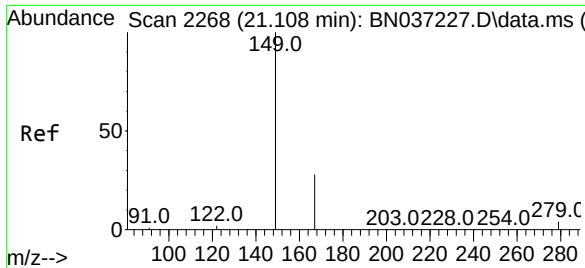
Tgt Ion:240 Resp: 1313
Ion Ratio Lower Upper
240 100
120 20.5 11.3 16.9#
236 32.8 24.4 36.6



#31
Terphenyl-d14
Concen: 0.230 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:244 Resp: 682
Ion Ratio Lower Upper
244 100
212 18.6 12.2 18.2#
122 22.1 14.3 21.5#

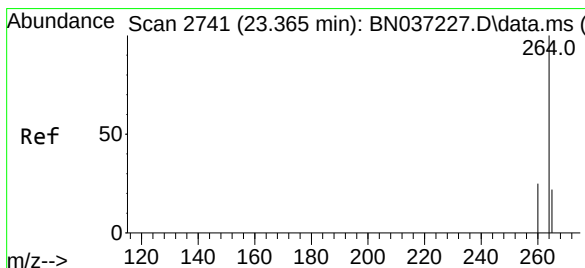
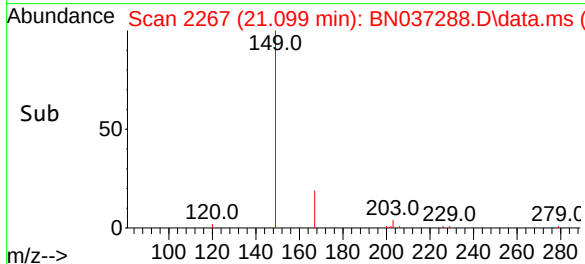
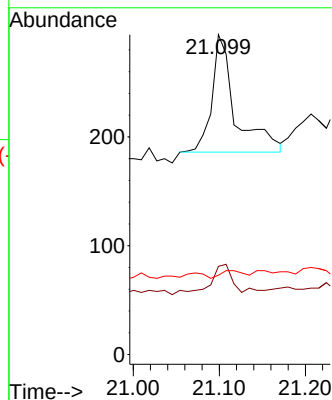
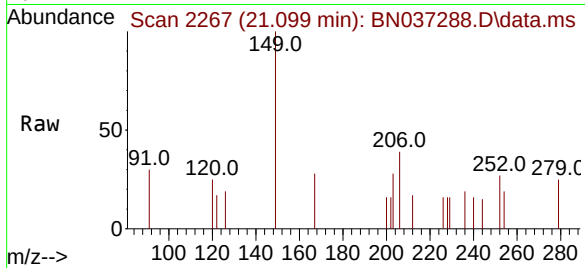




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 21.099 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

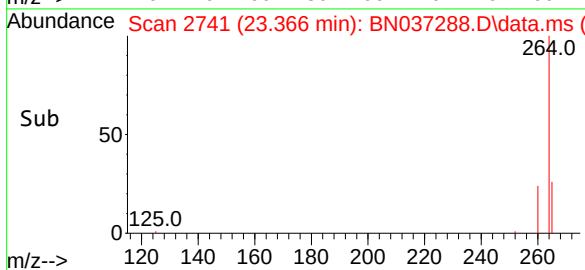
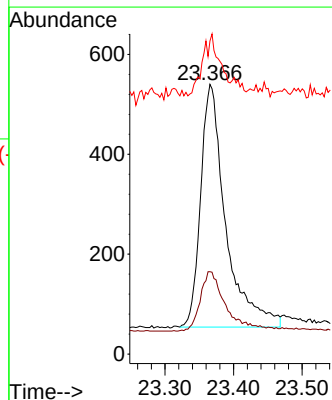
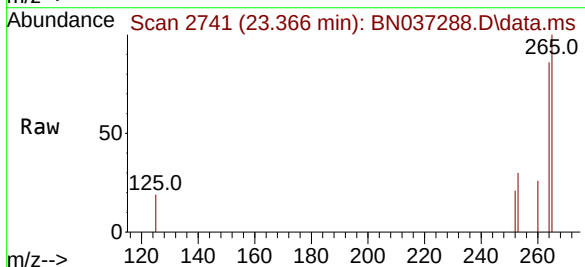
Instrument :
BNA_N
ClientSampleId :
DUP02-20250610DL

Tgt Ion:149 Resp: 204
Ion Ratio Lower Upper
149 100
167 17.6 21.3 31.9#
279 6.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2741
Delta R.T. 0.000 min
Lab File: BN037288.D
Acq: 16 Jun 2025 12:51

Tgt Ion:264 Resp: 1237
Ion Ratio Lower Upper
264 100
260 30.6 22.8 34.2
265 116.1 66.4 99.6#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT174I1-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-15	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
BN037262.D	1	06/13/25 08:03	06/14/25 15:11	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	939	7.582				
1146-65-2	Naphthalene-d8	2290	10.361				
15067-26-2	Acenaphthene-d10	1180	14.224				
1517-22-2	Phenanthrene-d10	2050	16.971				
1719-03-5	Chrysene-d12	1680	21.171				
1520-96-3	Perylene-d12	1690	23.363				

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\BN061325\
 Data File : BN037262.D
 Acq On : 14 Jun 2025 15:11
 Operator : RC/JU
 Sample : Q2299-15
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT17411-20250610

Quant Time: Jun 16 02:43:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

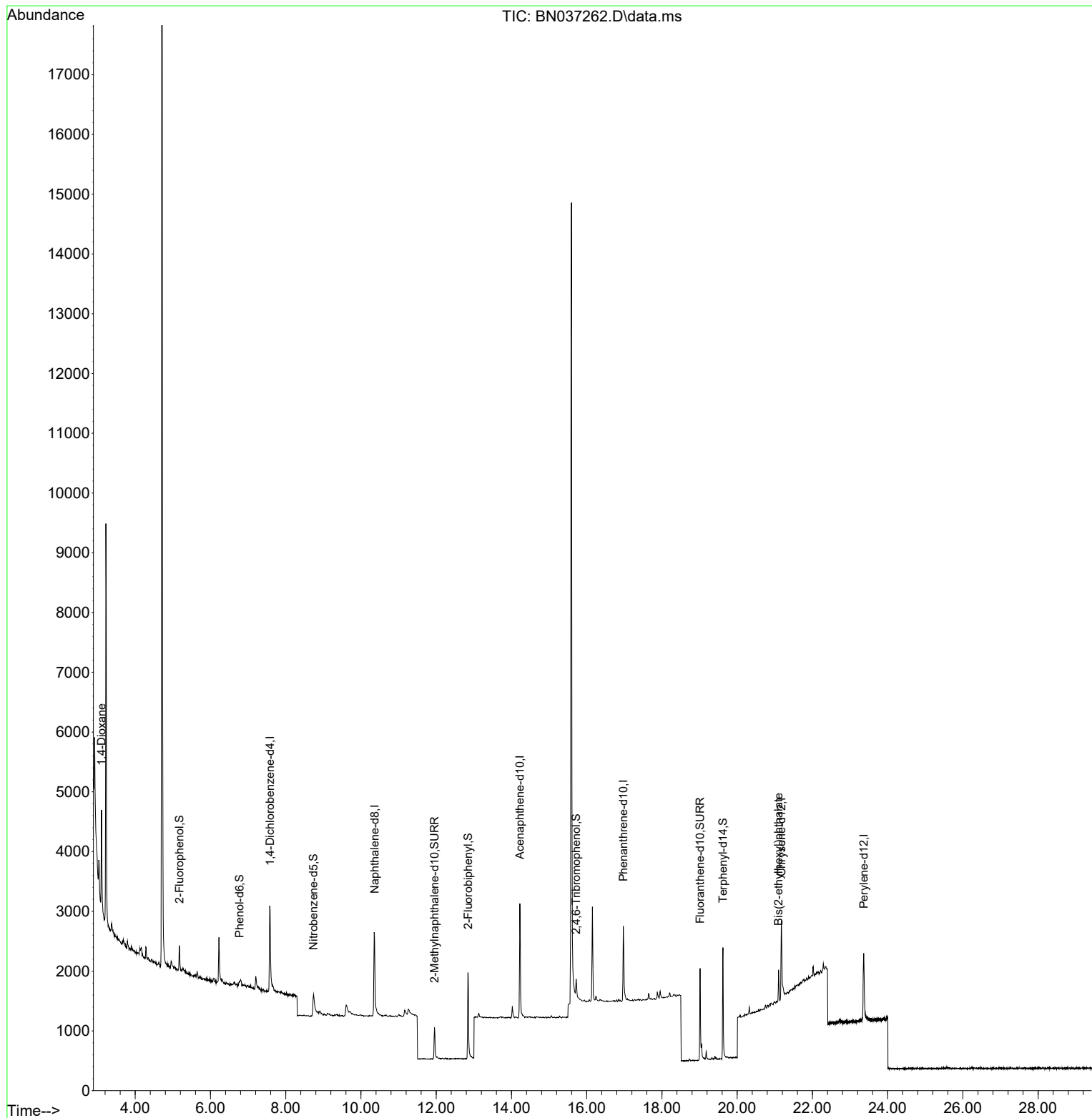
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	939	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2285	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1178	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2047	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1682	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1693	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	307	0.133	ng	0.00
5) Phenol-d6	6.773	99	152	0.063	ng	0.01
8) Nitrobenzene-d5	8.739	82	566	0.251	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	908	0.296	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	168	0.343	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1525	0.308	ng	0.00
27) Fluoranthene-d10	19.012	212	1926	0.360	ng	0.00
31) Terphenyl-d14	19.621	244	2012	0.529	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	778	0.604	ng	# 71
34) Bis(2-ethylhexyl)phtha...	21.099	149	500	0.118	ng	97

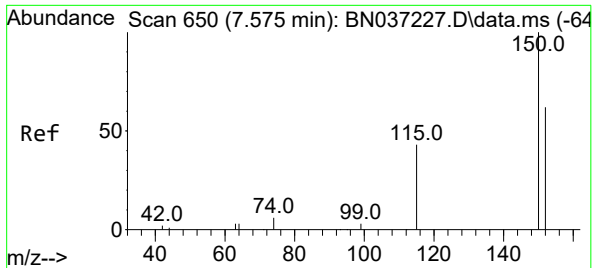
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037262.D
Acq On : 14 Jun 2025 15:11
Operator : RC/JU
Sample : Q2299-15
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

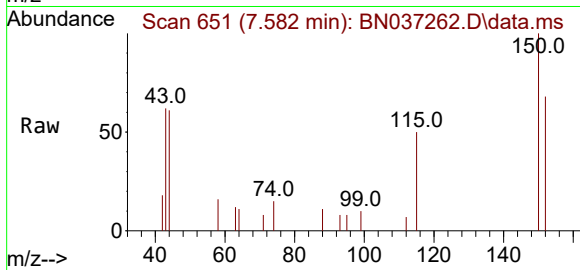
Quant Time: Jun 16 02:43:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



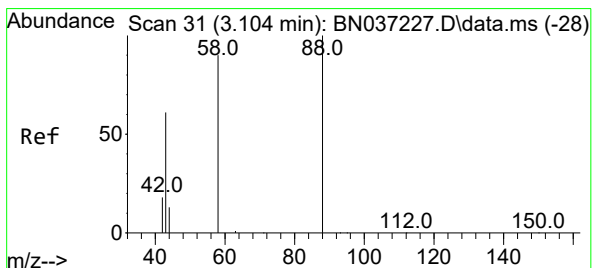
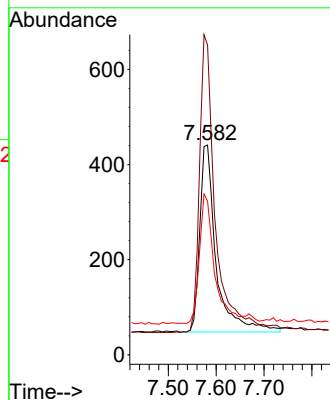
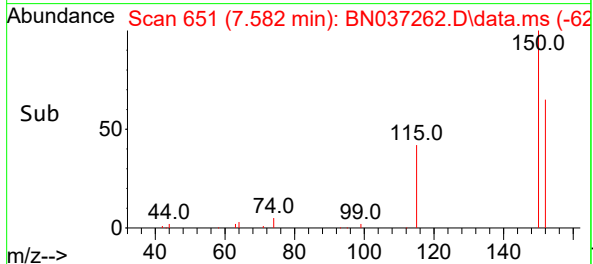


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

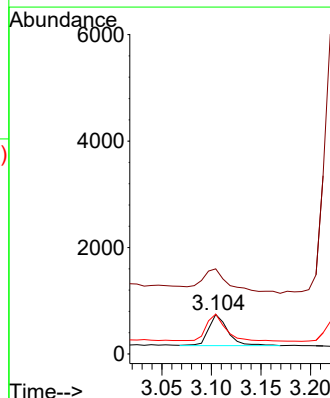
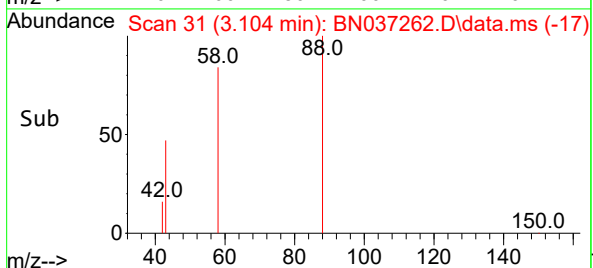
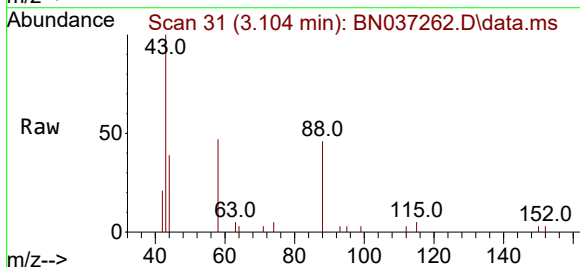


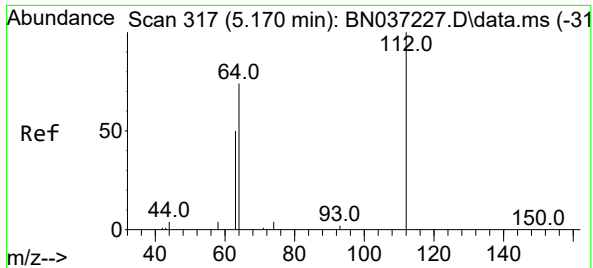
Tgt Ion:152 Resp: 939
Ion Ratio Lower Upper
152 100
150 147.6 125.2 187.8
115 73.2 58.4 87.6



#2
1,4-Dioxane
Concen: 0.604 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion: 88 Resp: 778
Ion Ratio Lower Upper
88 100
43 115.8 52.6 79.0#
58 87.4 73.5 110.3

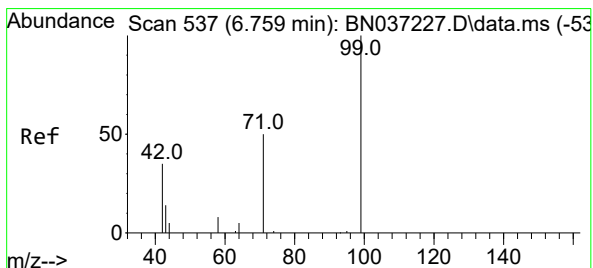
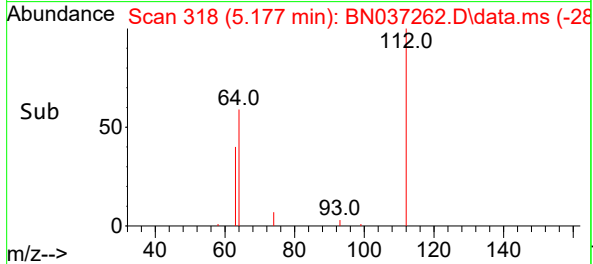
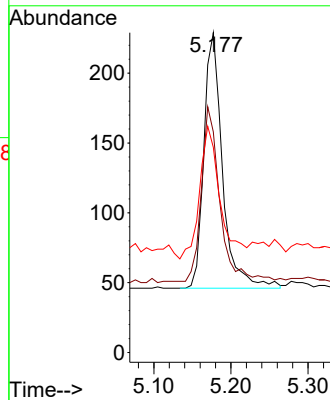
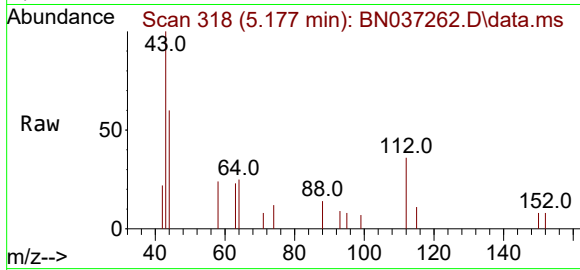




#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

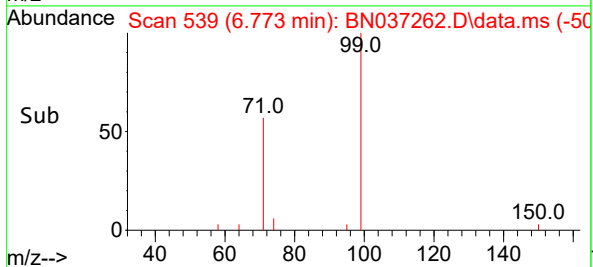
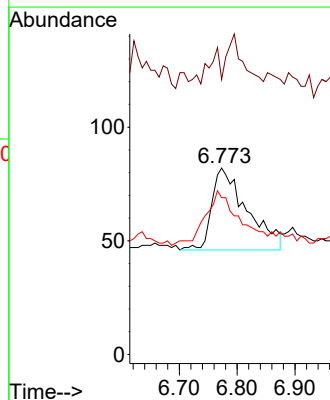
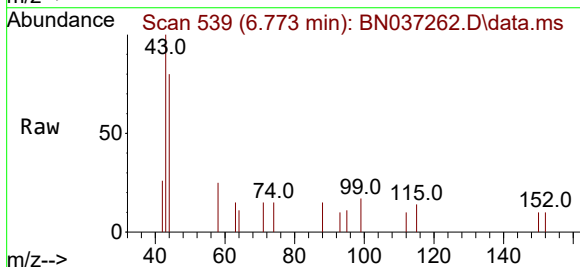
Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

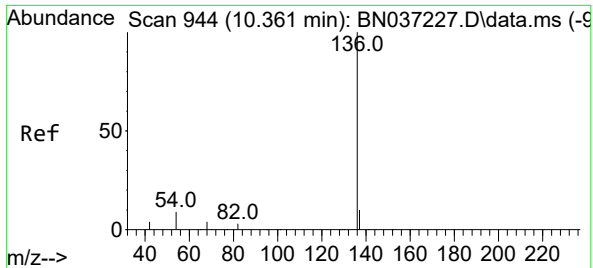
Tgt Ion:112 Resp: 307
Ion Ratio Lower Upper
112 100
64 67.4 57.2 85.8
63 56.7 39.8 59.6



#5
Phenol-d6
Concen: 0.063 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion: 99 Resp: 152
Ion Ratio Lower Upper
99 100
42 20.4 36.2 54.4#
71 64.5 42.4 63.6#

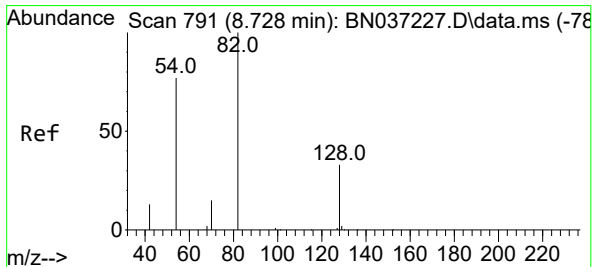
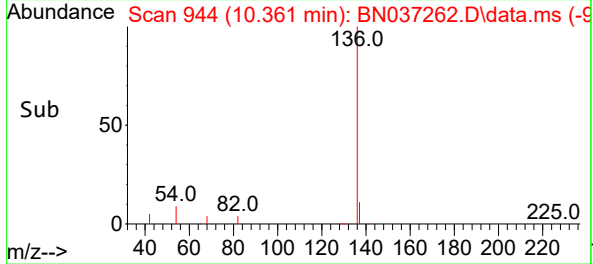
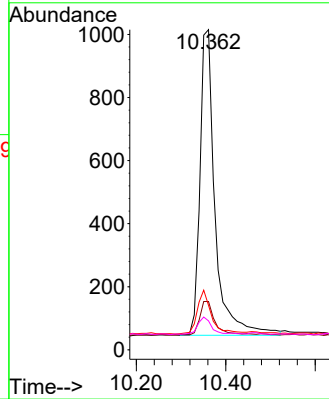
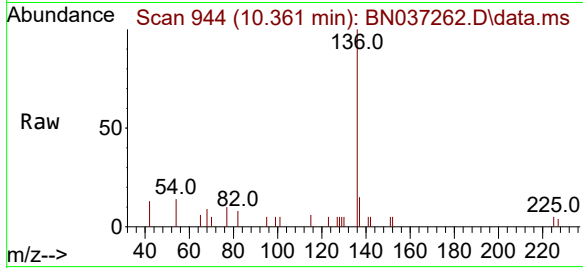




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

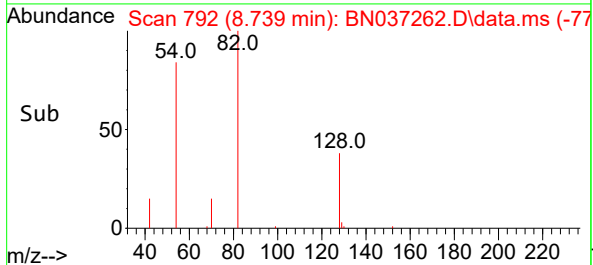
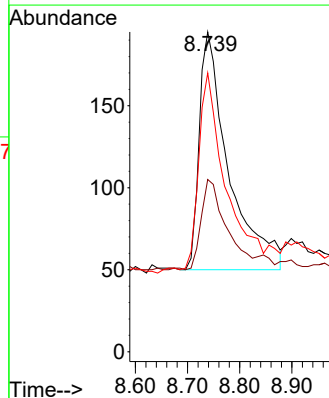
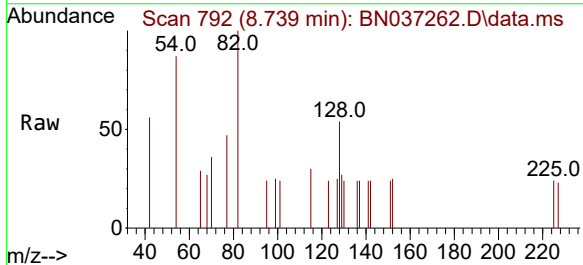
Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

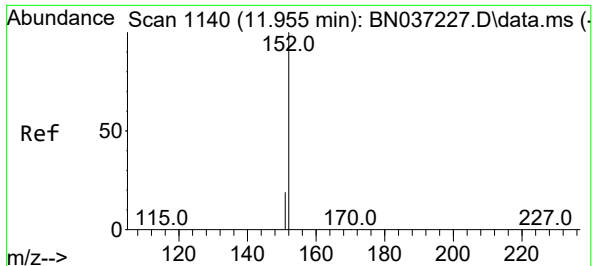
Tgt Ion:	136	Resp:	2285
Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.9	9.2	13.8#
68	9.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.251 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:	82	Resp:	566
Ion	Ratio	Lower	Upper
82	100		
128	53.8	31.2	46.8#
54	87.2	63.3	94.9

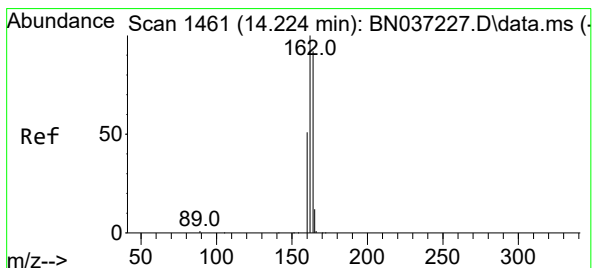
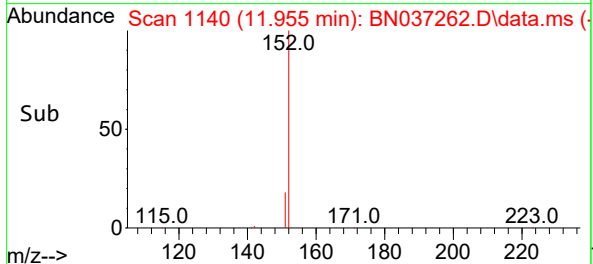
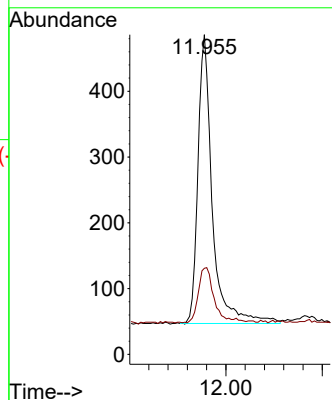
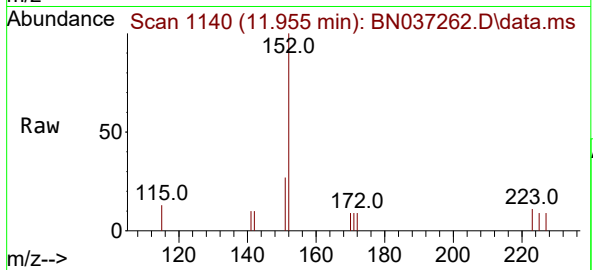




#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

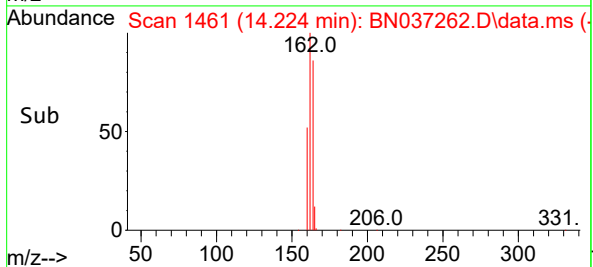
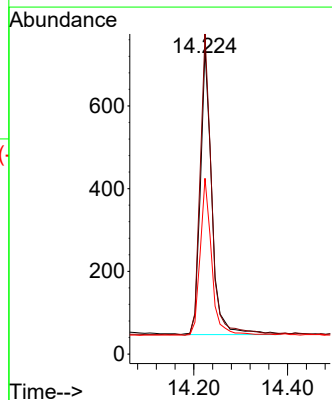
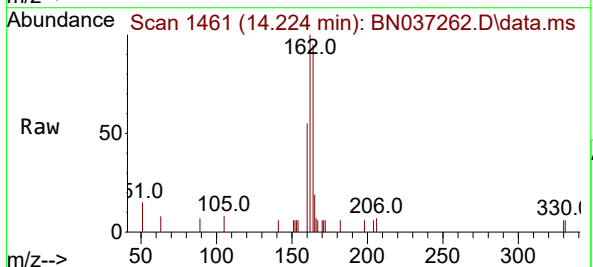
Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

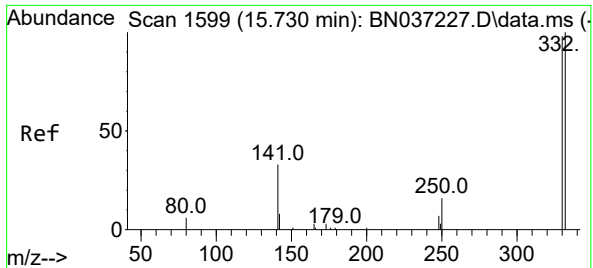
Tgt Ion:152 Resp: 908
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:164 Resp: 1178
Ion Ratio Lower Upper
164 100
162 104.9 86.7 130.1
160 57.6 45.8 68.6





#14

2,4,6-Tribromophenol

Concen: 0.343 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037262.D

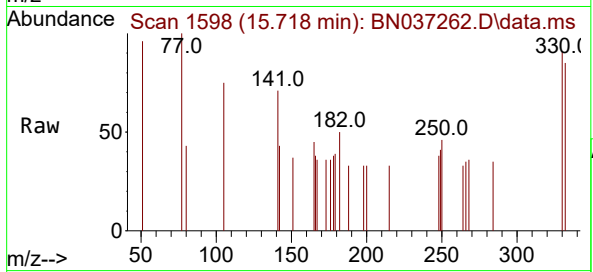
Acq: 14 Jun 2025 15:11

Instrument :

BNA_N

ClientSampleId :

TT17411-20250610



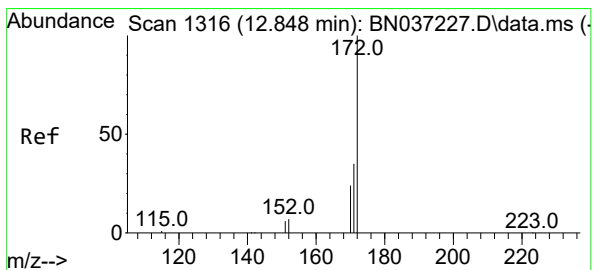
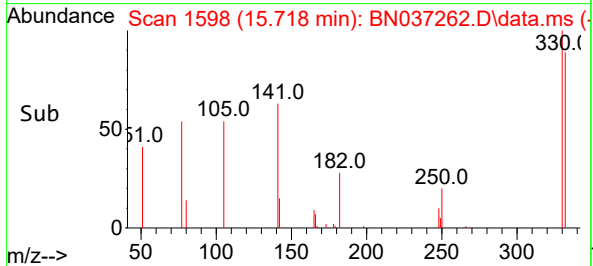
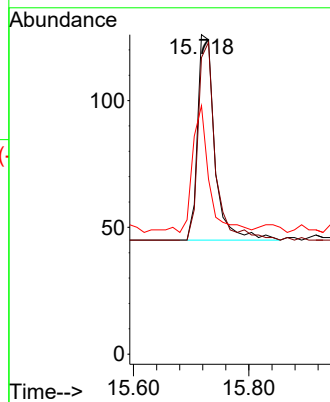
Tgt Ion:330 Resp: 168

Ion Ratio Lower Upper

330 100

332 95.8 74.9 112.3

141 60.1 45.1 67.7



#15

2-Fluorobiphenyl

Concen: 0.308 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037262.D

Acq: 14 Jun 2025 15:11

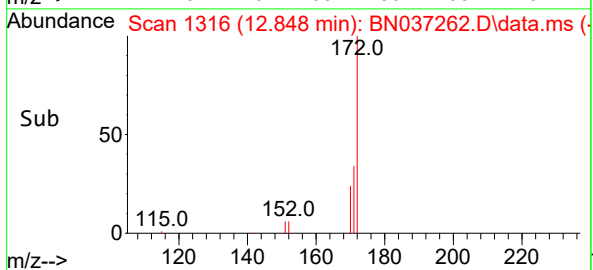
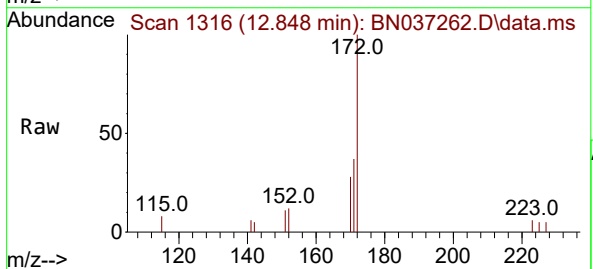
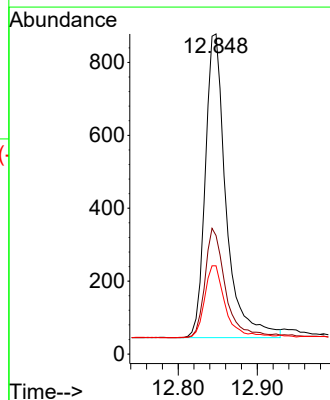
Tgt Ion:172 Resp: 1525

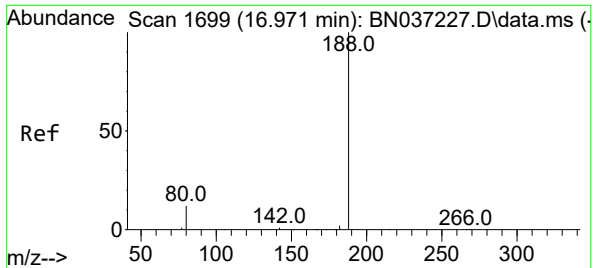
Ion Ratio Lower Upper

172 100

171 37.0 29.8 44.8

170 27.6 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037262.D

Acq: 14 Jun 2025 15:11

Instrument :

BNA_N

ClientSampleId :

TT17411-20250610

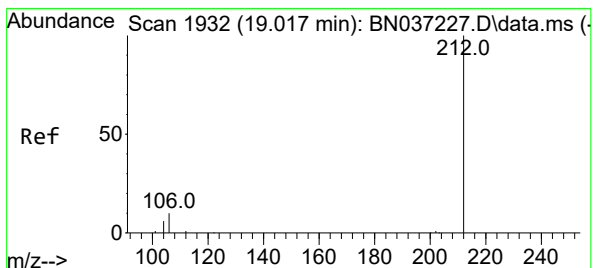
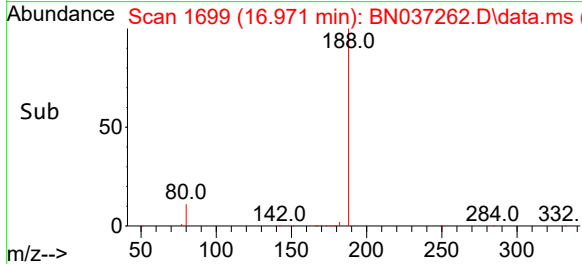
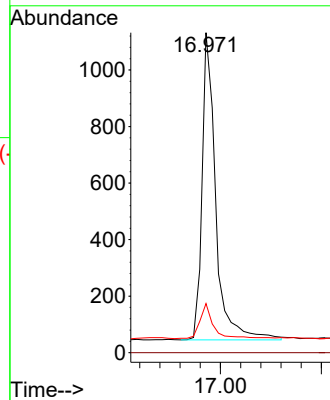
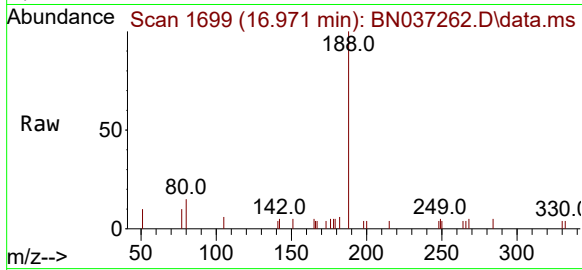
Tgt Ion:188 Resp: 2047

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.4 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037262.D

Acq: 14 Jun 2025 15:11

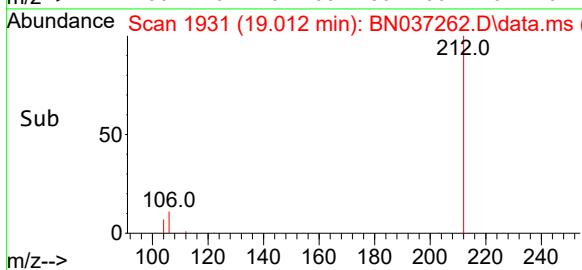
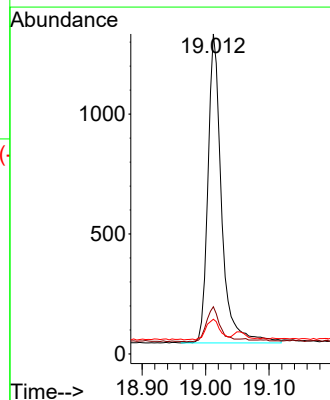
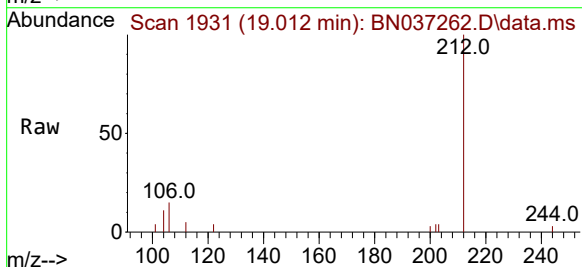
Tgt Ion:212 Resp: 1926

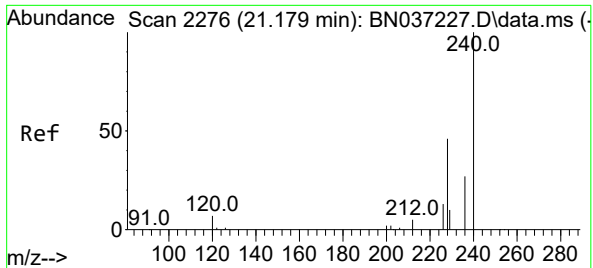
Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 6.7 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037262.D

Acq: 14 Jun 2025 15:11

Instrument :

BNA_N

ClientSampleId :

TT17411-20250610

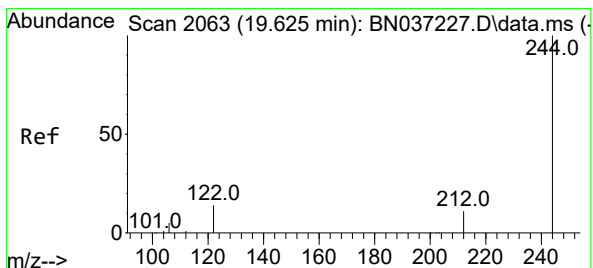
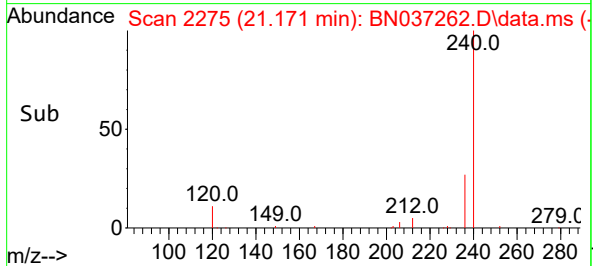
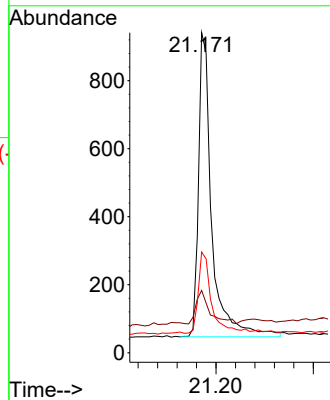
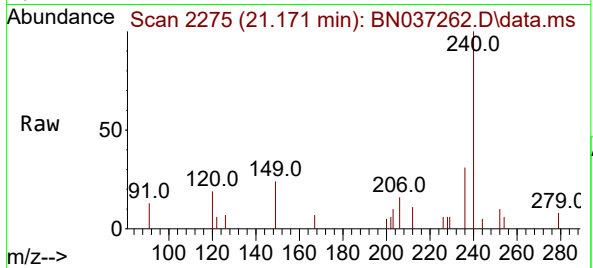
Tgt Ion:240 Resp: 1682

Ion Ratio Lower Upper

240 100

120 19.4 11.3 16.9#

236 31.5 24.4 36.6



#31

Terphenyl-d14

Concen: 0.529 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.005 min

Lab File: BN037262.D

Acq: 14 Jun 2025 15:11

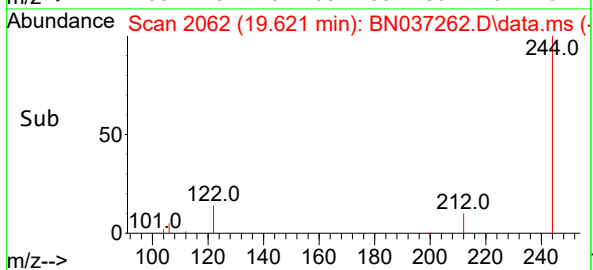
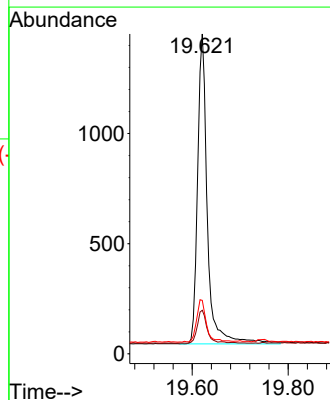
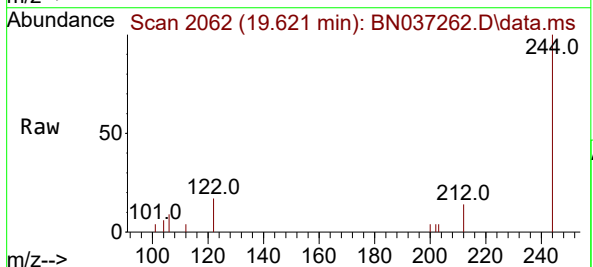
Tgt Ion:244 Resp: 2012

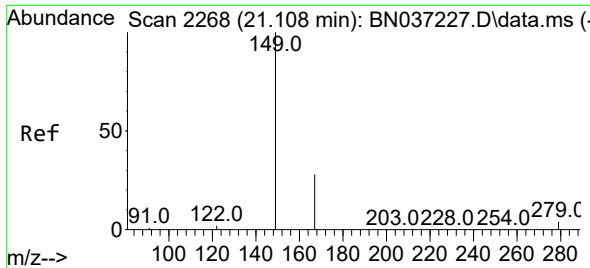
Ion Ratio Lower Upper

244 100

212 13.6 12.2 18.2

122 16.7 14.3 21.5

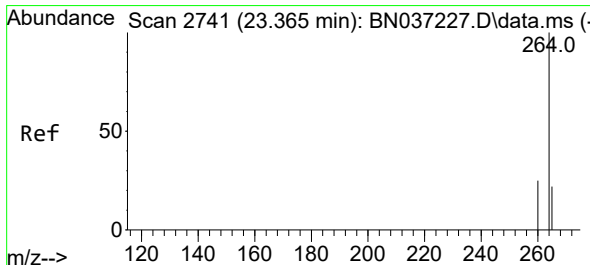
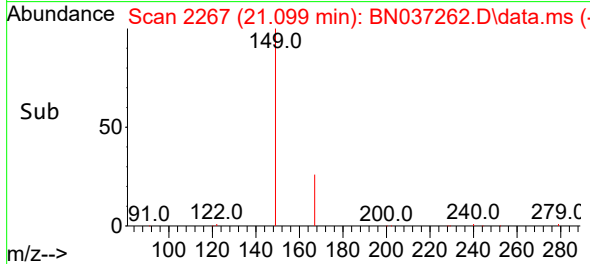
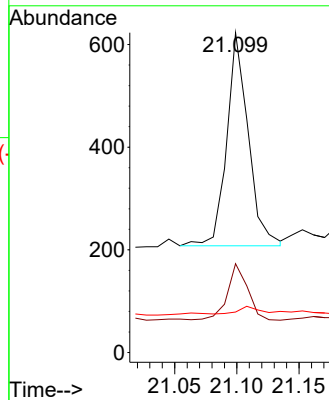
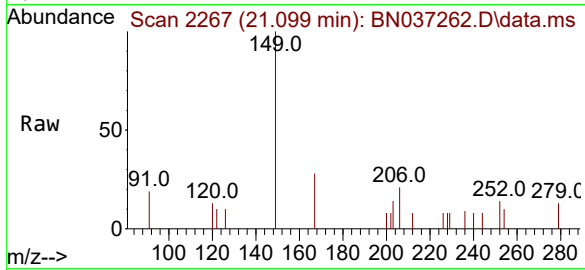




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.118 ng
RT: 21.099 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

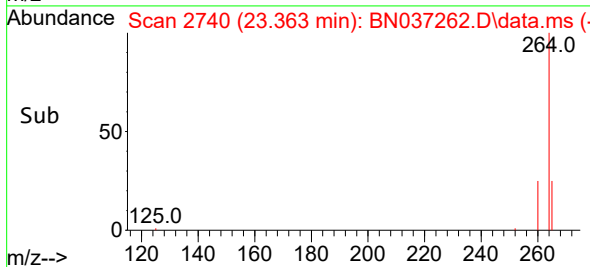
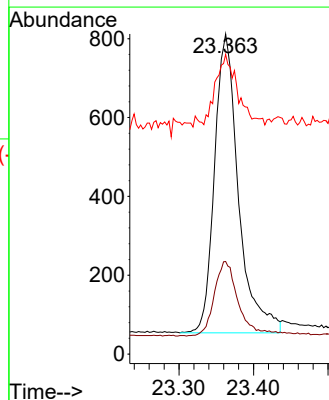
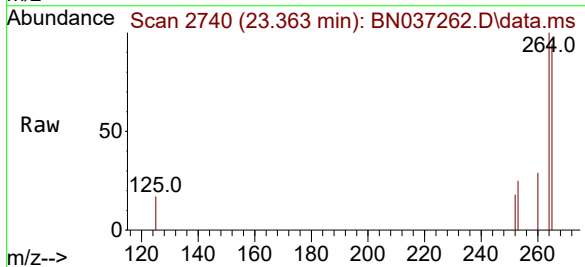
Instrument :
BNA_N
ClientSampleId :
TT17411-20250610

Tgt Ion:149 Resp: 500
Ion Ratio Lower Upper
149 100
167 24.8 21.3 31.9
279 4.2 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037262.D
Acq: 14 Jun 2025 15:11

Tgt Ion:264 Resp: 1693
Ion Ratio Lower Upper
264 100
260 28.9 22.8 34.2
265 93.6 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D4-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-16	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
BN037263.D	1	06/13/25 08:03	06/14/25 15:47	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.70		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	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	977	7.575				
1146-65-2	Naphthalene-d8	2440	10.351				
15067-26-2	Acenaphthene-d10	1270	14.224				
1517-22-2	Phenanthrene-d10	2240	16.971				
1719-03-5	Chrysene-d12	1760	21.18				
1520-96-3	Perylene-d12	1810	23.363				

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\BN061325\
 Data File : BN037263.D
 Acq On : 14 Jun 2025 15:47
 Operator : RC/JU
 Sample : Q2299-16
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE134D4-20250610

Quant Time: Jun 16 02:43:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

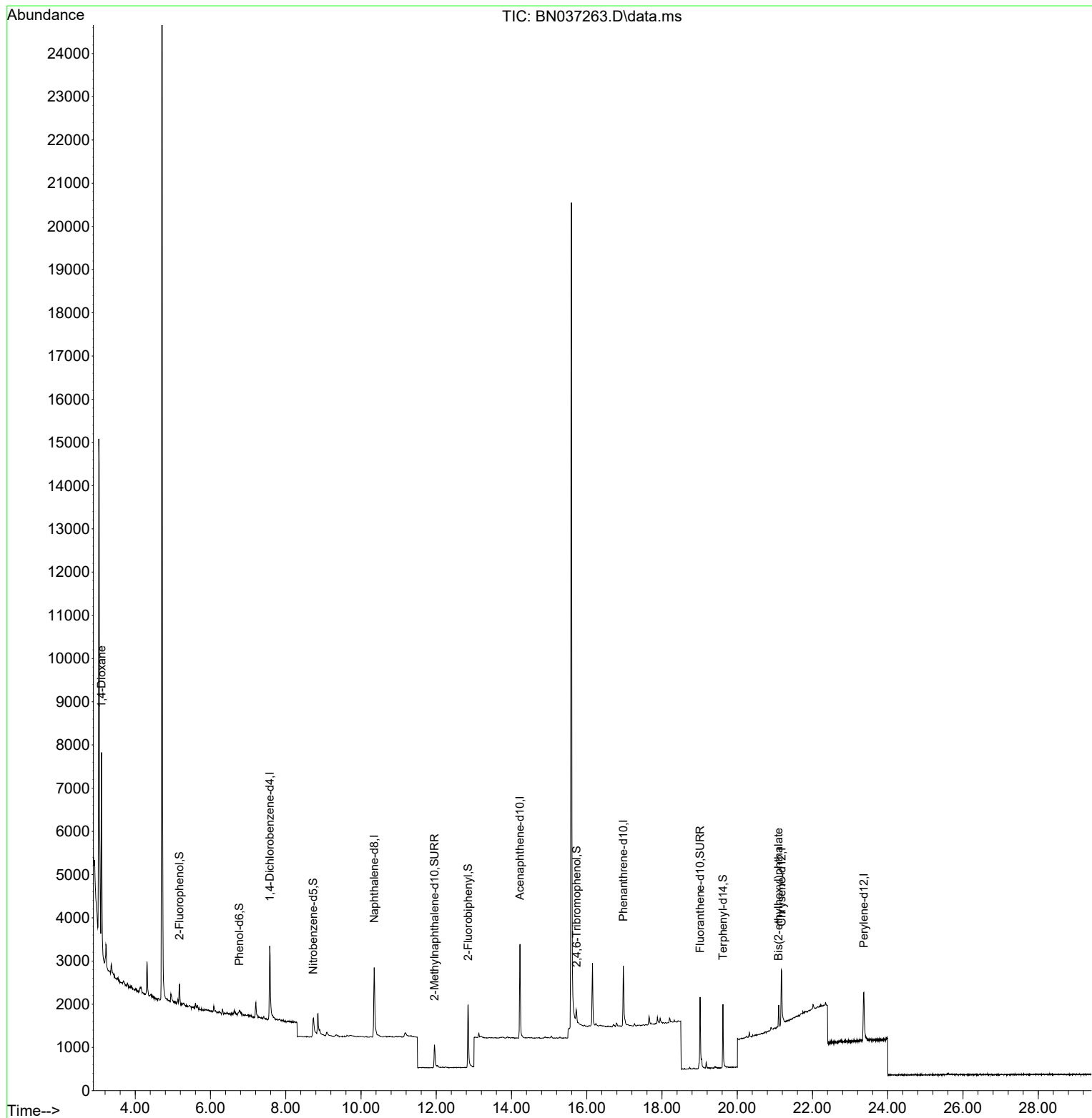
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	977	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2442	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1265	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2241	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1763	0.400	ng	0.00
35) Perylene-d12	23.363	264	1807	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	330	0.138	ng	0.00
5) Phenol-d6	6.766	99	158	0.062	ng	0.00
8) Nitrobenzene-d5	8.728	82	630	0.261	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	963	0.294	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	167	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1635	0.308	ng	0.00
27) Fluoranthene-d10	19.012	212	2187	0.373	ng	0.00
31) Terphenyl-d14	19.621	244	1594	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2253	1.681	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	484	0.109	ng	# 97

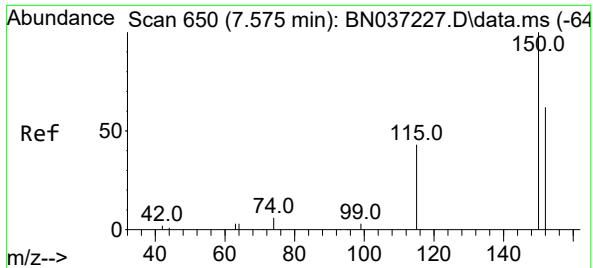
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037263.D
Acq On : 14 Jun 2025 15:47
Operator : RC/JU
Sample : Q2299-16
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

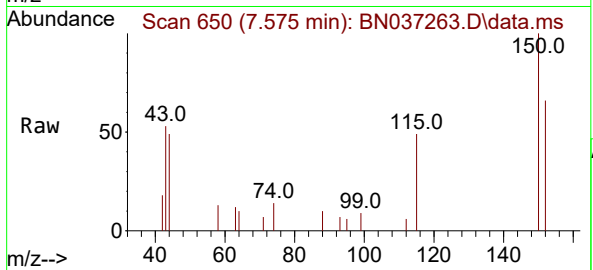
Quant Time: Jun 16 02:43:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



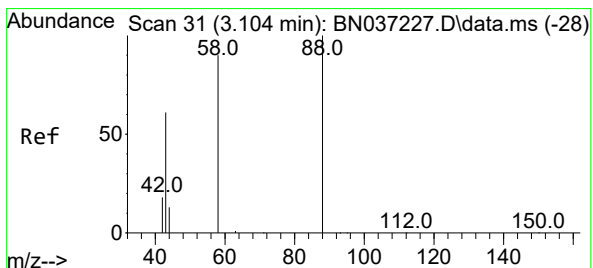
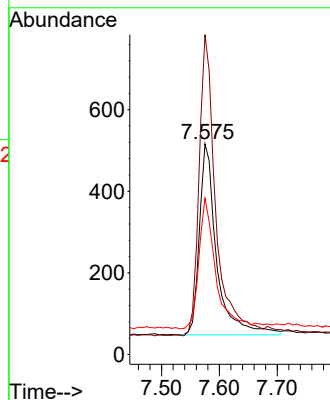
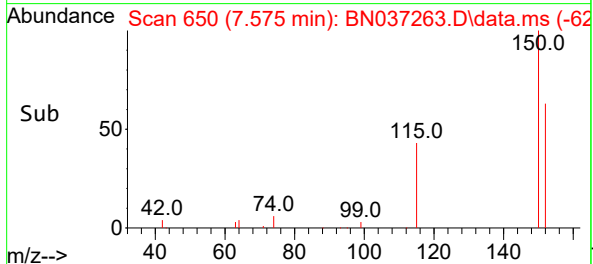


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

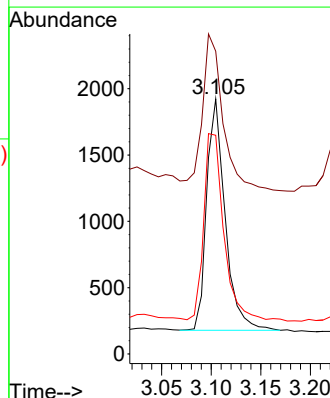
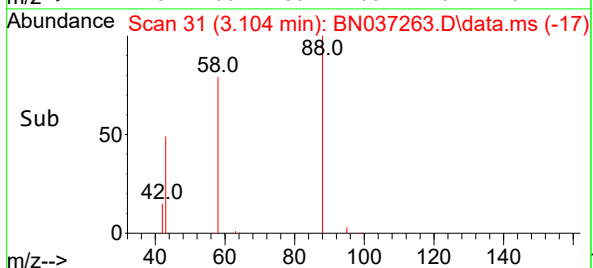
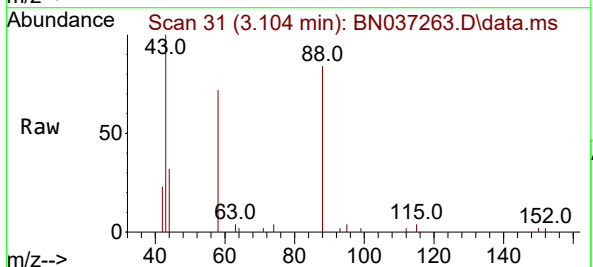


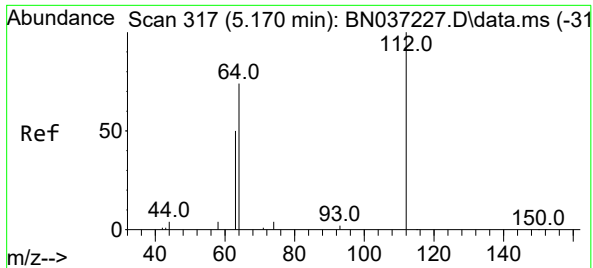
Tgt Ion:152 Resp: 977
Ion Ratio Lower Upper
152 100
150 151.9 125.2 187.8
115 74.2 58.4 87.6



#2
1,4-Dioxane
Concen: 1.681 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion: 88 Resp: 2253
Ion Ratio Lower Upper
88 100
43 77.8 52.6 79.0
58 89.2 73.5 110.3

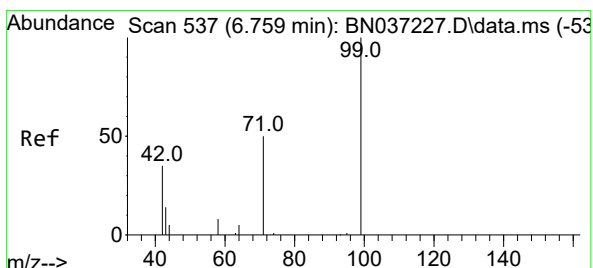
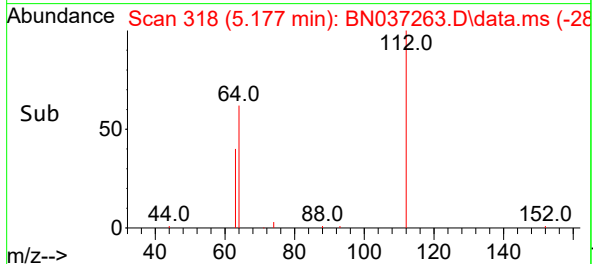
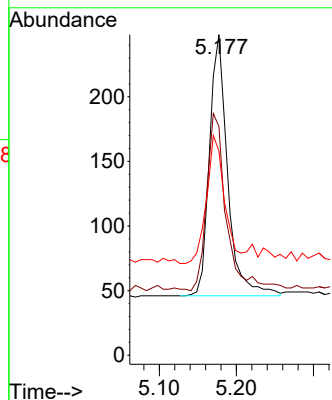
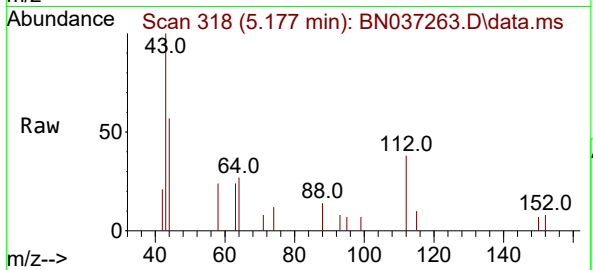




#4
2-Fluorophenol
Concen: 0.138 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.008 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

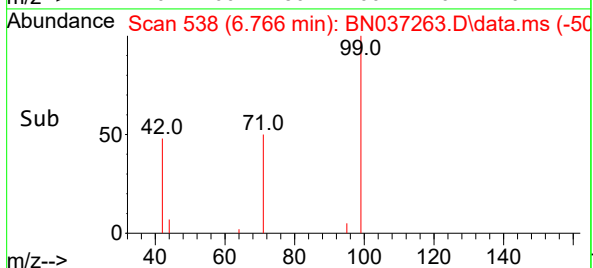
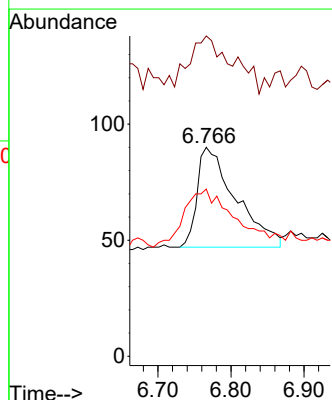
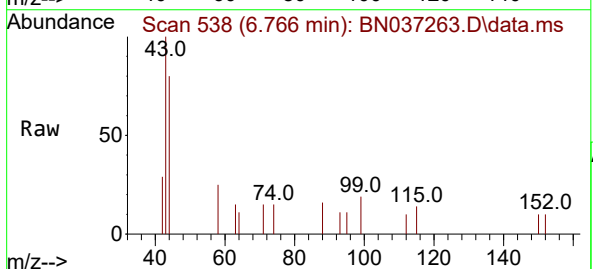
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

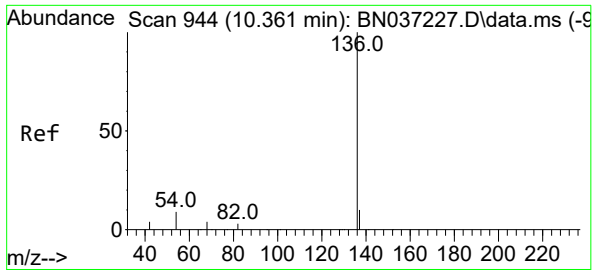
Tgt Ion:112 Resp: 330
Ion Ratio Lower Upper
112 100
64 71.5 57.2 85.8
63 48.8 39.8 59.6



#5
Phenol-d6
Concen: 0.062 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion: 99 Resp: 158
Ion Ratio Lower Upper
99 100
42 40.5 36.2 54.4
71 78.5 42.4 63.6#

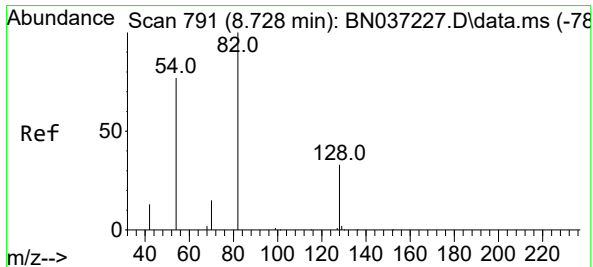
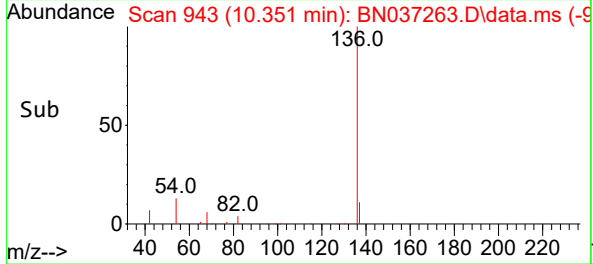
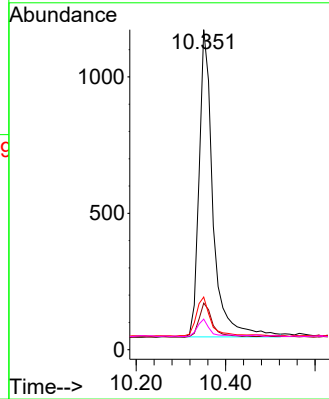
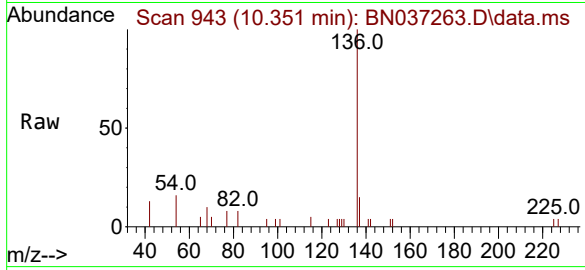




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

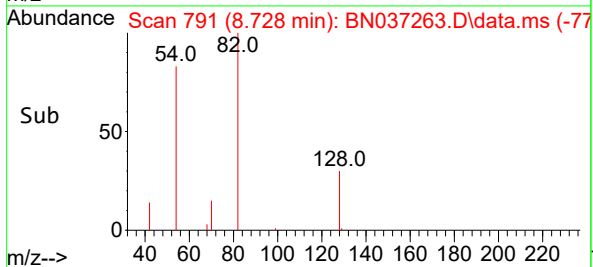
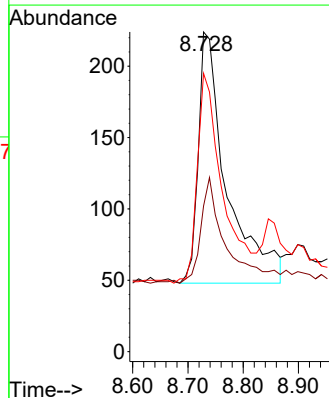
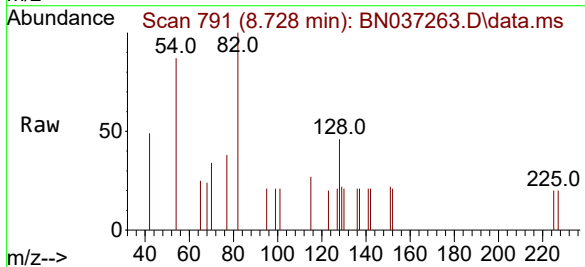
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

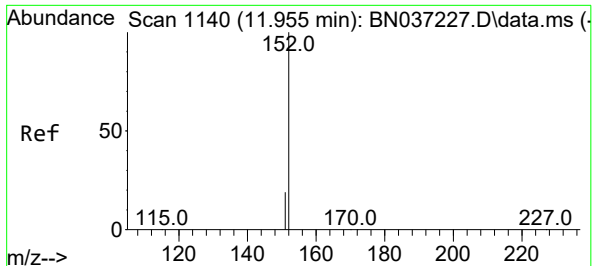
Tgt Ion:	136	Resp:	2442
Ion	Ratio	Lower	Upper
136	100		
137	14.6	10.6	15.8
54	16.5	9.2	13.8#
68	9.5	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:	82	Resp:	630
Ion	Ratio	Lower	Upper
82	100		
128	45.5	31.2	46.8
54	87.1	63.3	94.9

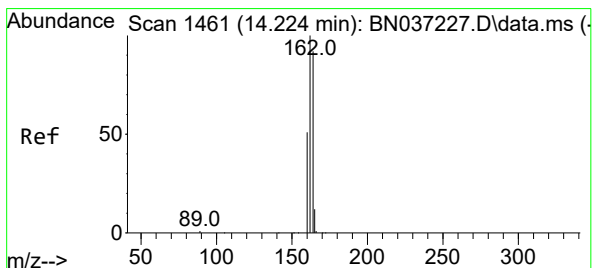
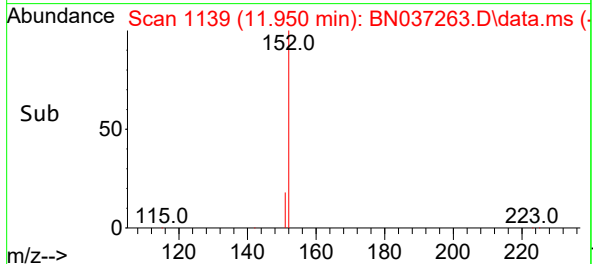
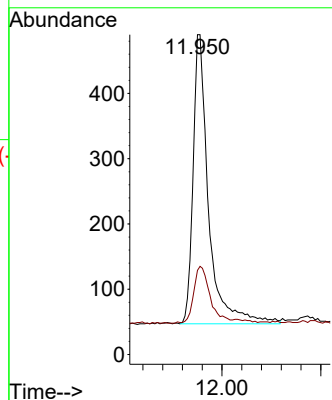
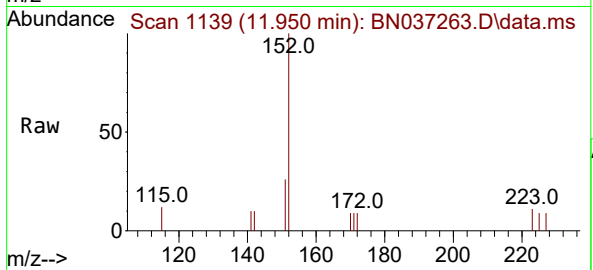




#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

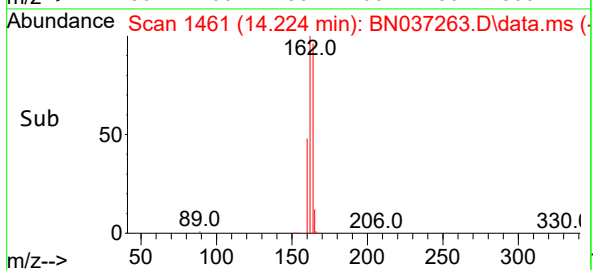
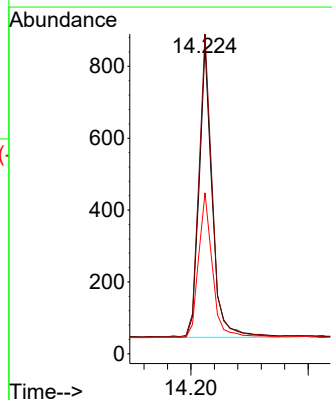
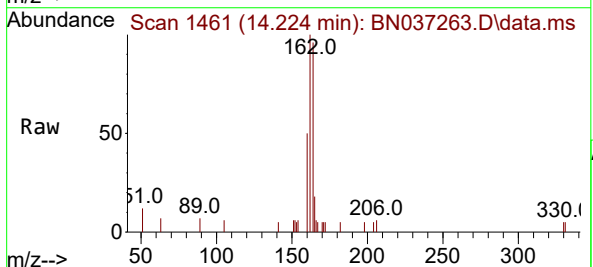
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

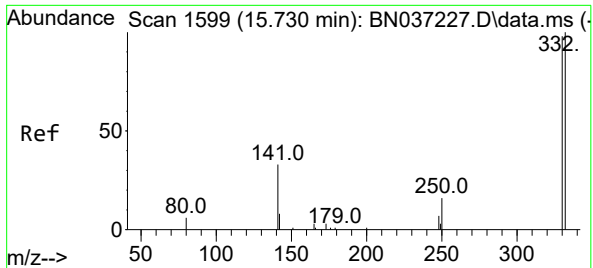
Tgt Ion:152 Resp: 963
Ion Ratio Lower Upper
152 100
151 20.8 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:164 Resp: 1265
Ion Ratio Lower Upper
164 100
162 103.9 86.7 130.1
160 52.3 45.8 68.6





#14

2,4,6-Tribromophenol

Concen: 0.318 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037263.D

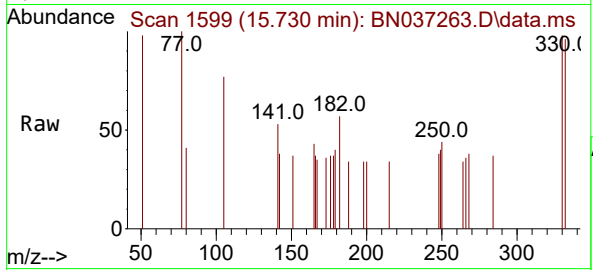
Acq: 14 Jun 2025 15:47

Instrument :

BNA_N

ClientSampleId :

RE134D4-20250610



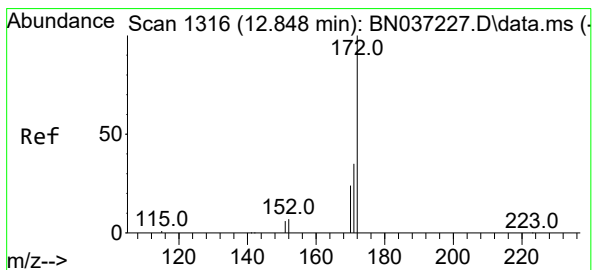
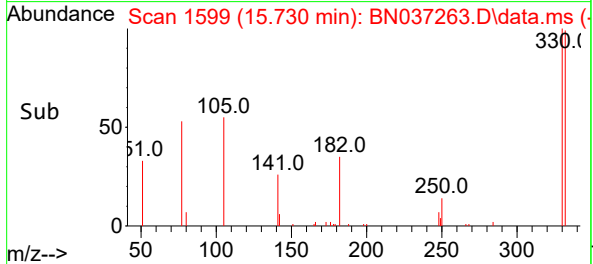
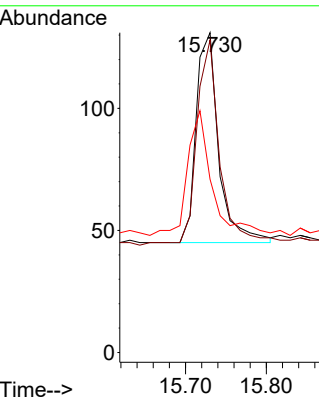
Tgt Ion:330 Resp: 167

Ion Ratio Lower Upper

330 100

332 101.8 74.9 112.3

141 63.5 45.1 67.7



#15

2-Fluorobiphenyl

Concen: 0.308 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037263.D

Acq: 14 Jun 2025 15:47

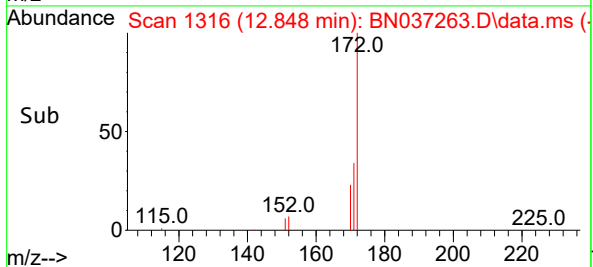
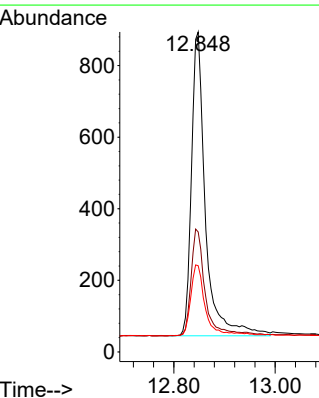
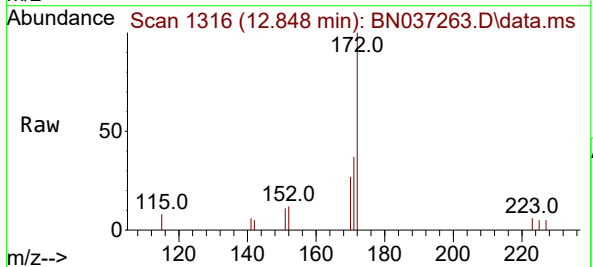
Tgt Ion:172 Resp: 1635

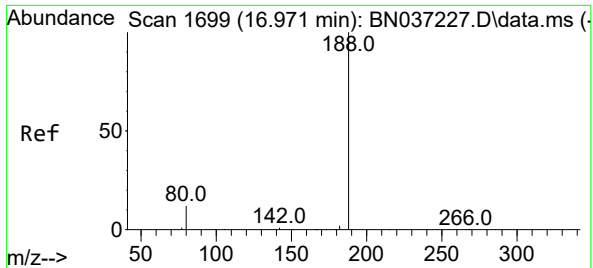
Ion Ratio Lower Upper

172 100

171 37.5 29.8 44.8

170 27.0 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037263.D

Acq: 14 Jun 2025 15:47

Instrument :

BNA_N

ClientSampleId :

RE134D4-20250610

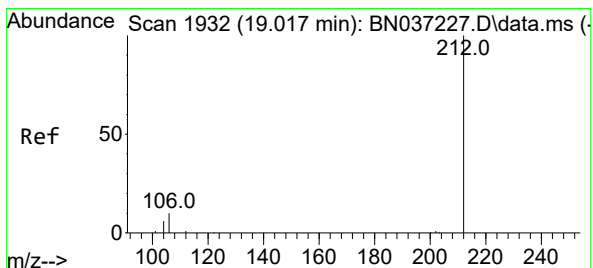
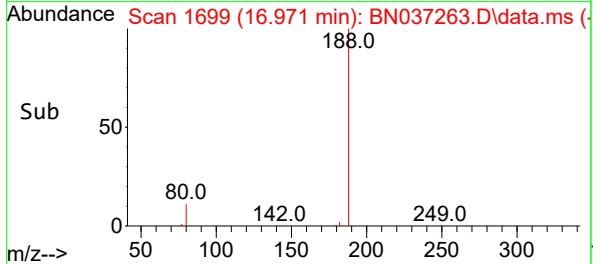
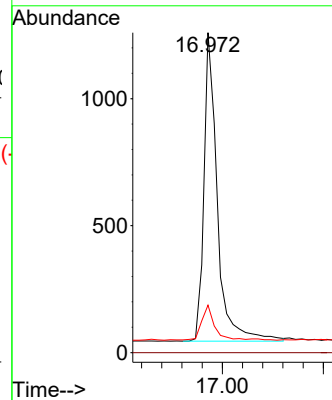
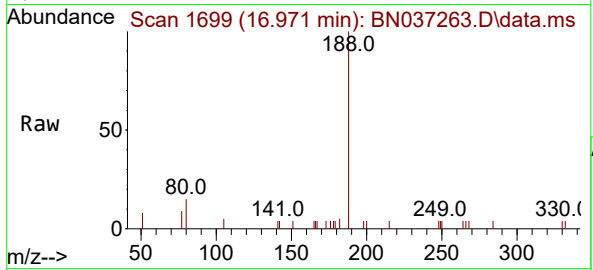
Tgt Ion:188 Resp: 2241

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.373 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037263.D

Acq: 14 Jun 2025 15:47

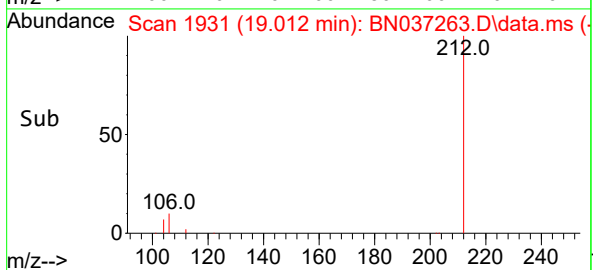
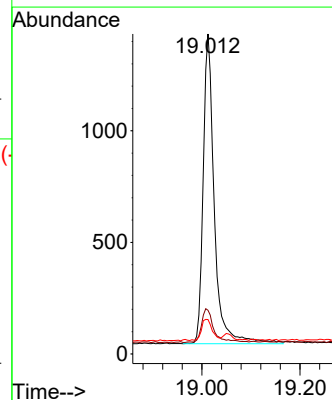
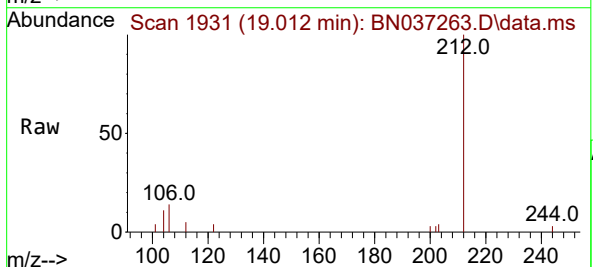
Tgt Ion:212 Resp: 2187

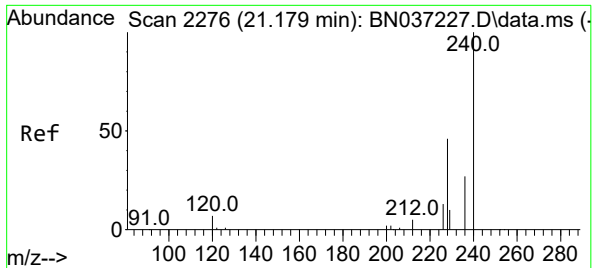
Ion Ratio Lower Upper

212 100

106 11.8 9.3 13.9

104 6.6 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037263.D

Acq: 14 Jun 2025 15:47

Instrument :

BNA_N

ClientSampleId :

RE134D4-20250610

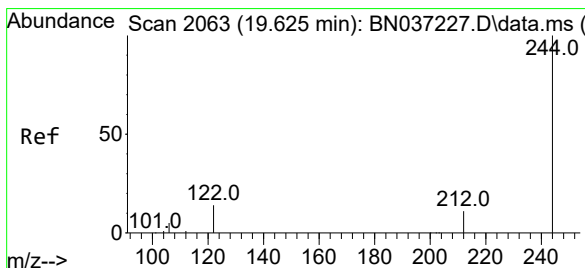
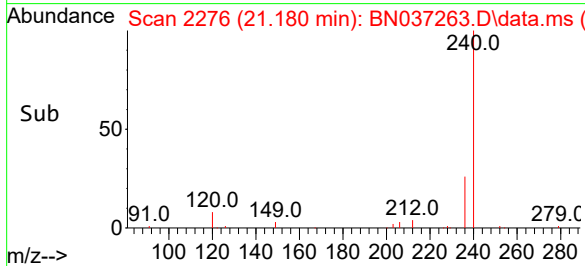
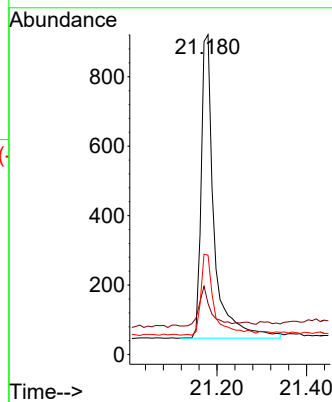
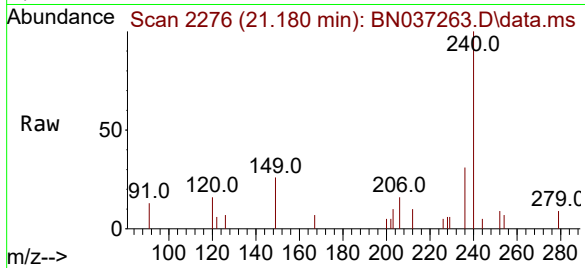
Tgt Ion:240 Resp: 1763

Ion Ratio Lower Upper

240 100

120 16.0 11.3 16.9

236 31.1 24.4 36.6



#31

Terphenyl-d14

Concen: 0.400 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037263.D

Acq: 14 Jun 2025 15:47

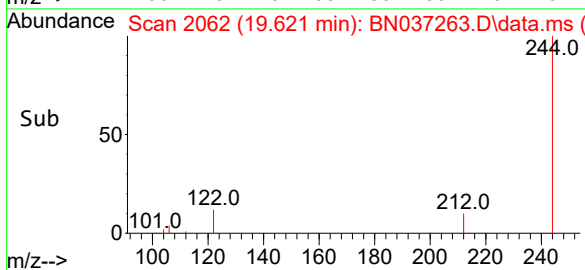
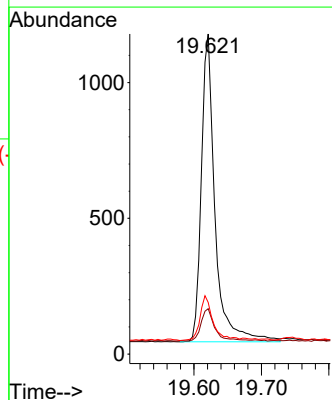
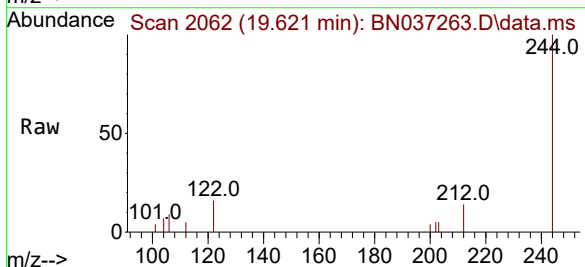
Tgt Ion:244 Resp: 1594

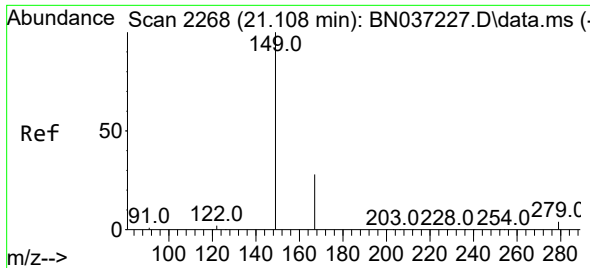
Ion Ratio Lower Upper

244 100

212 14.2 12.2 18.2

122 16.1 14.3 21.5

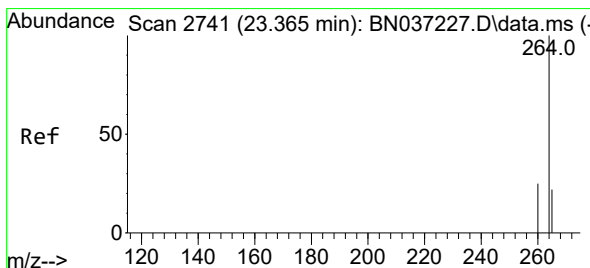
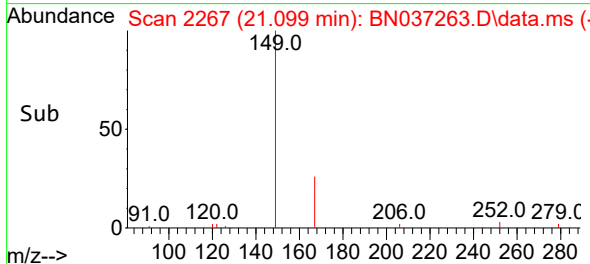
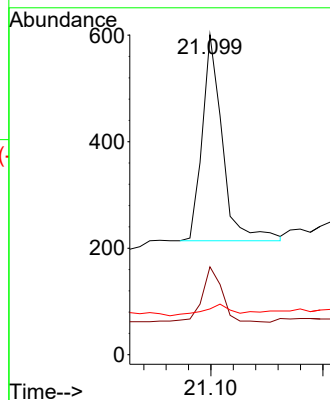
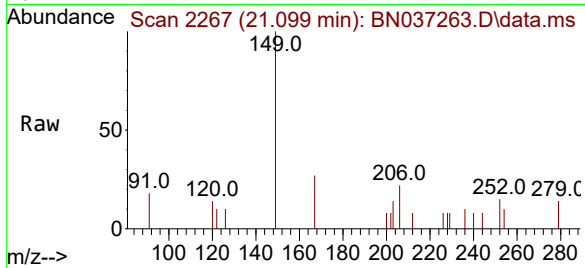




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.109 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

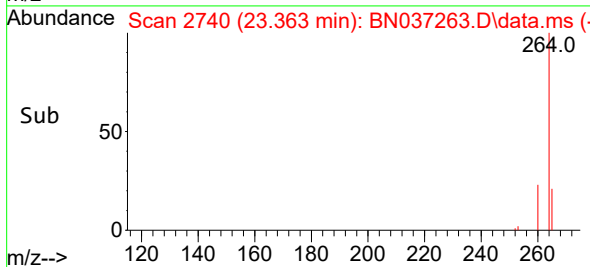
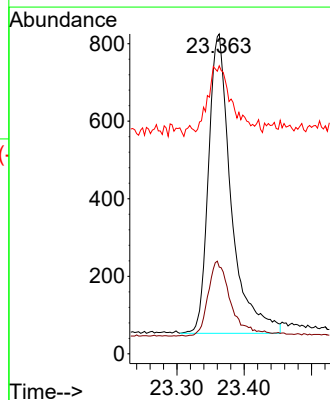
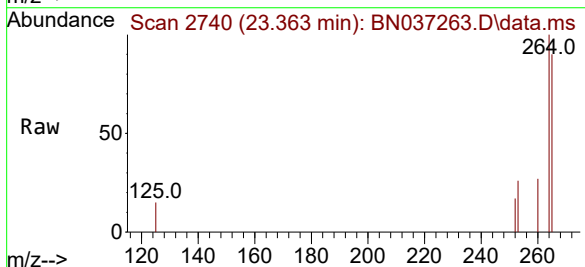
Instrument :
BNA_N
ClientSampleId :
RE134D4-20250610

Tgt Ion:149 Resp: 484
Ion Ratio Lower Upper
149 100
167 25.4 21.3 31.9
279 7.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037263.D
Acq: 14 Jun 2025 15:47

Tgt Ion:264 Resp: 1807
Ion Ratio Lower Upper
264 100
260 27.2 22.8 34.2
265 90.1 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D3-20250610	SDG No.:	Q2299
Lab Sample ID:	Q2299-17	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
BN037264.D	1	06/13/25 08:03	06/14/25 16:23	PB168458

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	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	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	1010	7.575				
1146-65-2	Naphthalene-d8	2460	10.351				
15067-26-2	Acenaphthene-d10	1300	14.224				
1517-22-2	Phenanthrene-d10	2300	16.971				
1719-03-5	Chrysene-d12	2030	21.171				
1520-96-3	Perylene-d12	2090	23.36				

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\BN061325\
 Data File : BN037264.D
 Acq On : 14 Jun 2025 16:23
 Operator : RC/JU
 Sample : Q2299-17
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE134D3-20250610

Quant Time: Jun 16 02:43:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

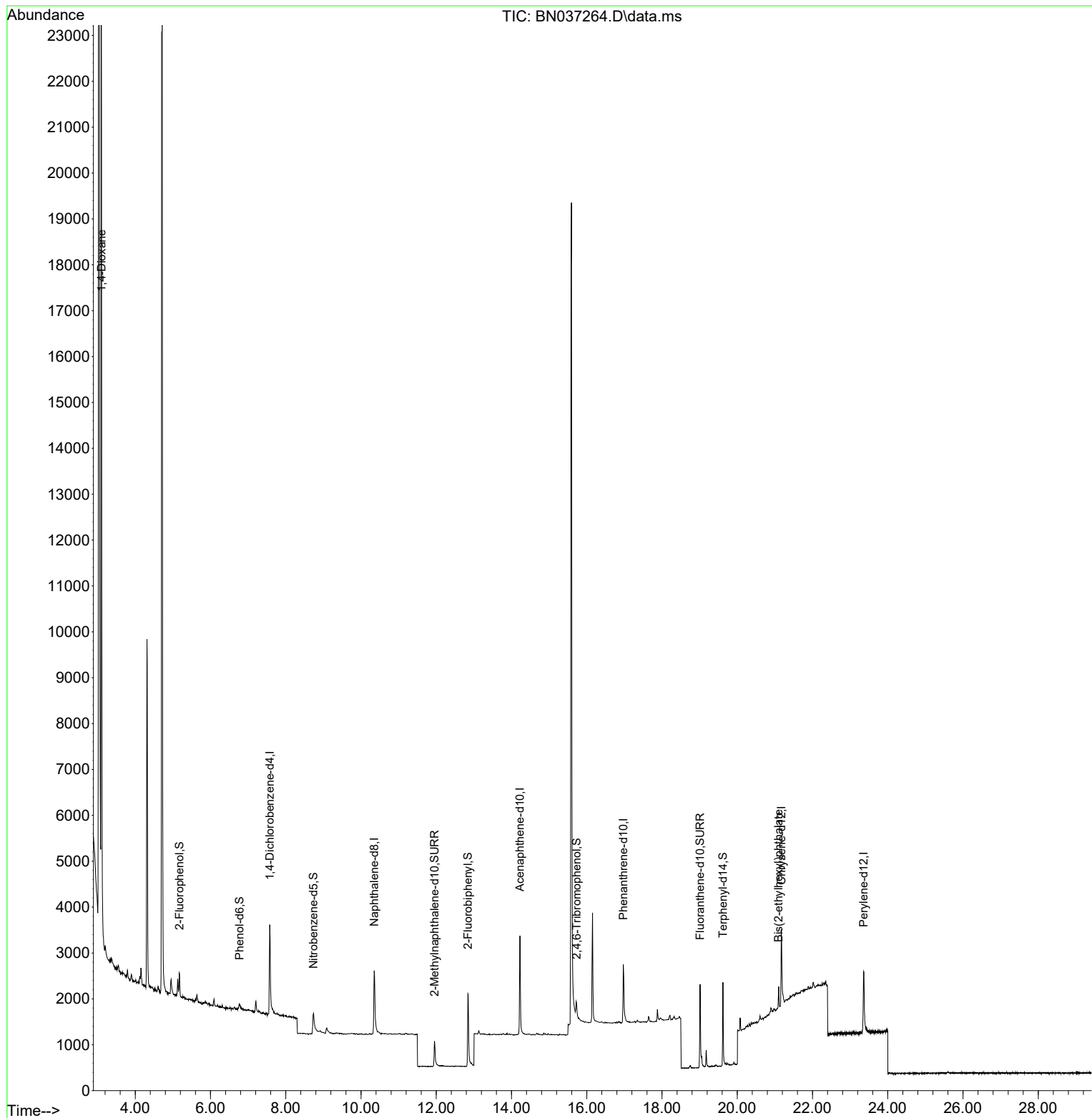
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1012	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2458	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1295	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2300	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2027	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2087	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	366	0.147	ng	0.00
5) Phenol-d6	6.773	99	168	0.064	ng	0.01
8) Nitrobenzene-d5	8.739	82	701	0.289	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1060	0.321	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	199	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1753	0.322	ng	0.00
27) Fluoranthene-d10	19.012	212	2488	0.413	ng	0.00
31) Terphenyl-d14	19.621	244	1883	0.411	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	9353	6.736	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	448	0.088	ng	# 96

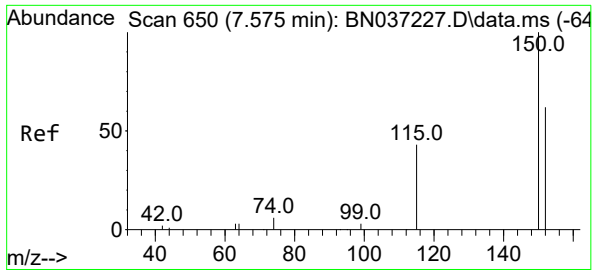
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037264.D
Acq On : 14 Jun 2025 16:23
Operator : RC/JU
Sample : Q2299-17
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

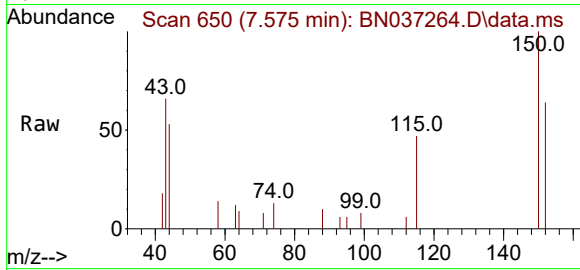
Quant Time: Jun 16 02:43:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



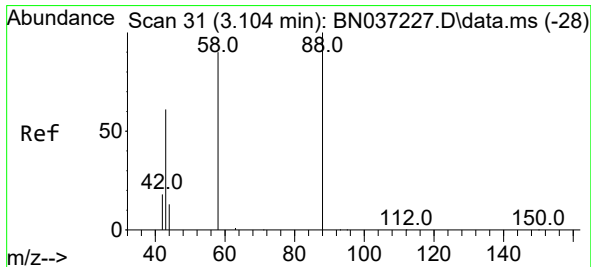
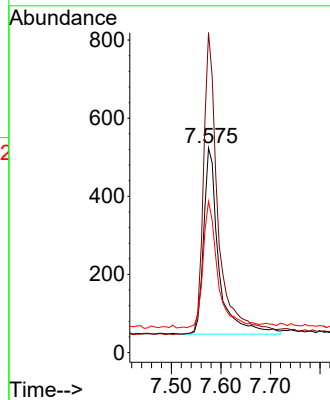
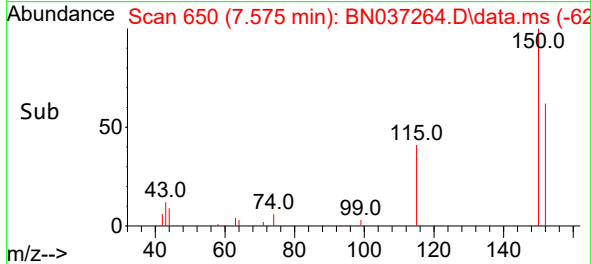


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

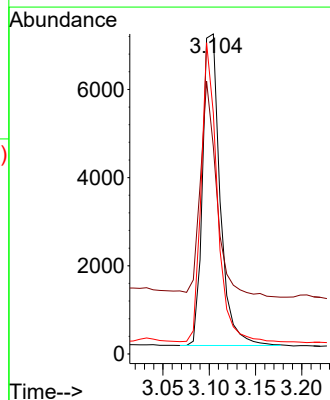
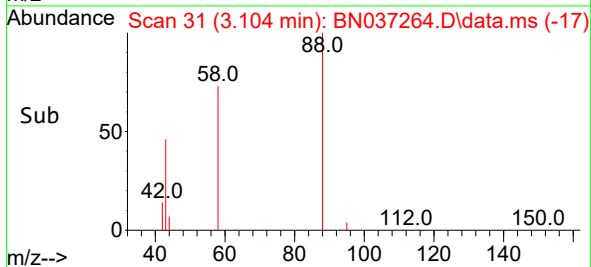
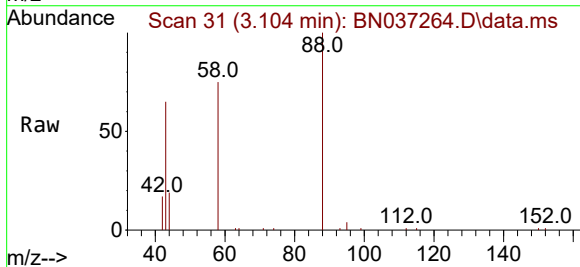


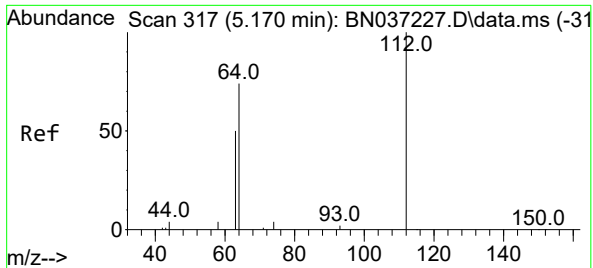
Tgt Ion:152 Resp: 1012
Ion Ratio Lower Upper
152 100
150 156.3 125.2 187.8
115 73.9 58.4 87.6



#2
1,4-Dioxane
Concen: 6.736 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion: 88 Resp: 9353
Ion Ratio Lower Upper
88 100
43 65.5 52.6 79.0
58 86.6 73.5 110.3

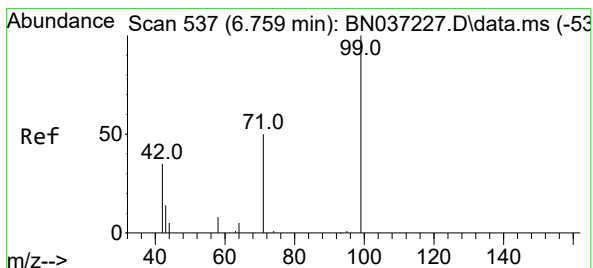
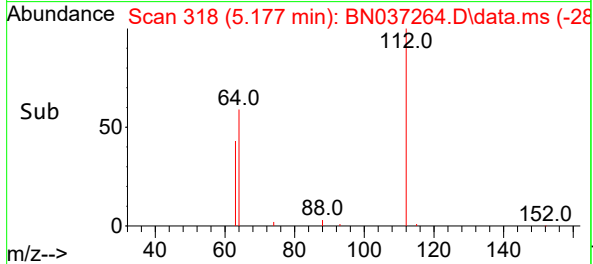
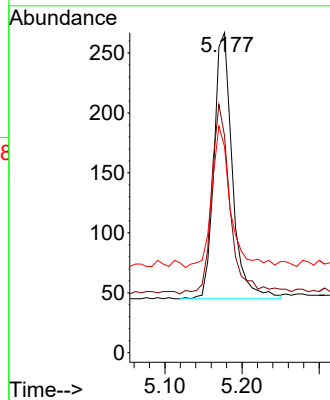
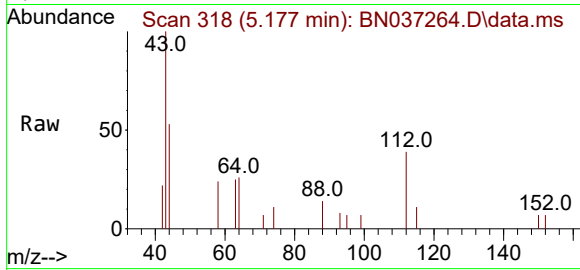




#4
2-Fluorophenol
Concen: 0.147 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

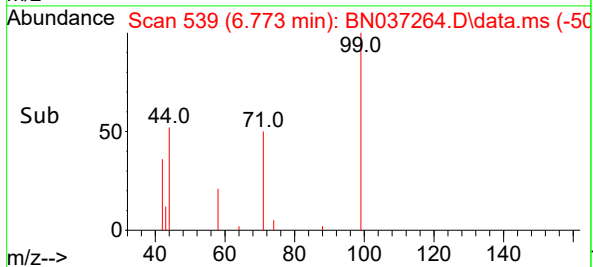
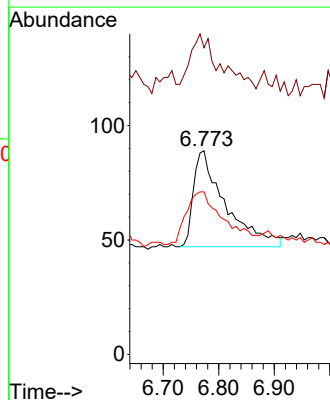
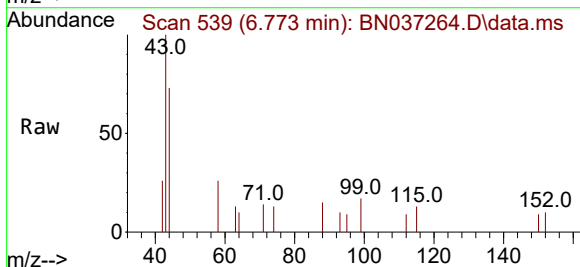
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

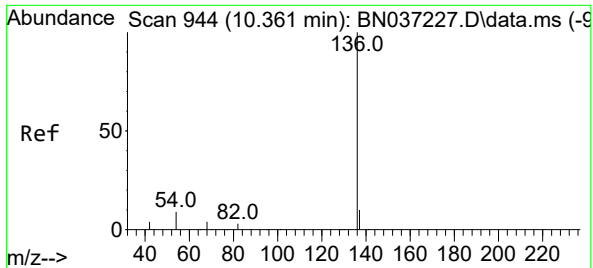
Tgt Ion:112 Resp: 366
Ion Ratio Lower Upper
112 100
64 73.8 57.2 85.8
63 54.1 39.8 59.6



#5
Phenol-d6
Concen: 0.064 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion: 99 Resp: 168
Ion Ratio Lower Upper
99 100
42 53.6 36.2 54.4
71 63.7 42.4 63.6#

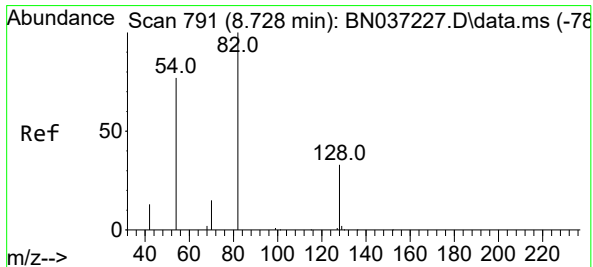
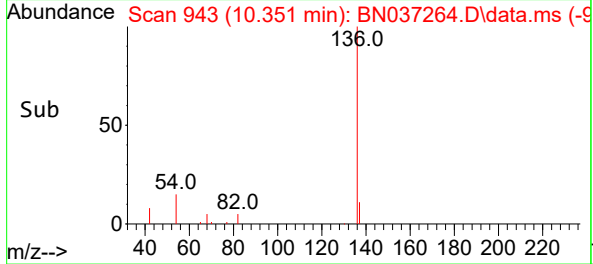
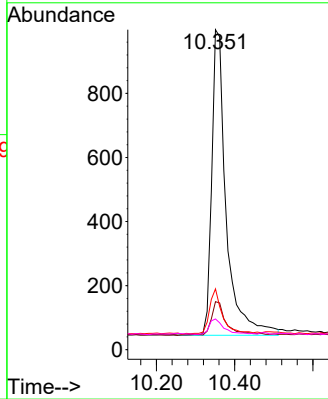
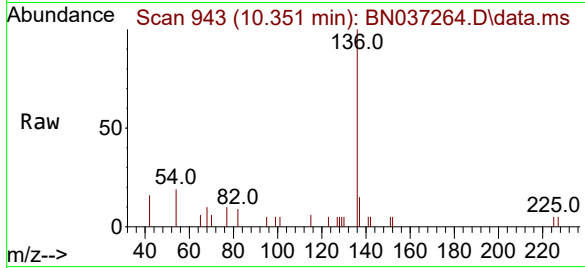




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

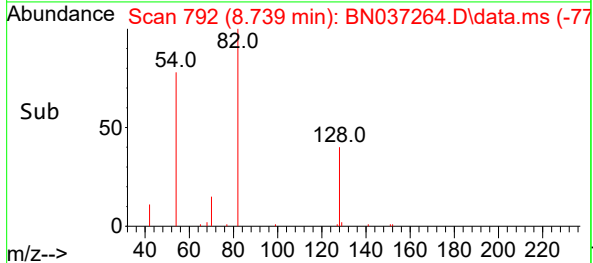
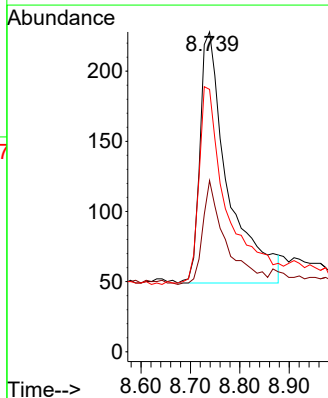
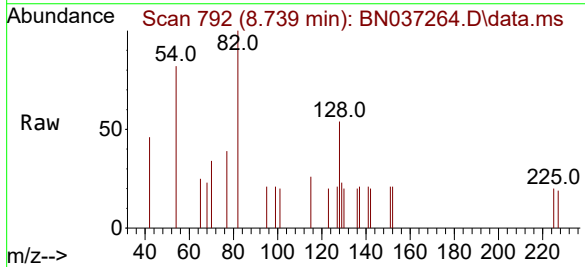
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

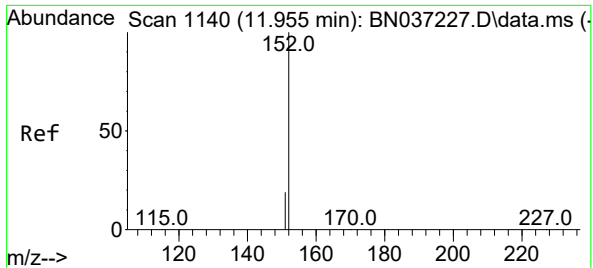
Tgt Ion:	136	Resp:	2458
Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	19.0	9.2	13.8#
68	9.6	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:	82	Resp:	701
Ion	Ratio	Lower	Upper
82	100		
128	53.5	31.2	46.8#
54	82.0	63.3	94.9

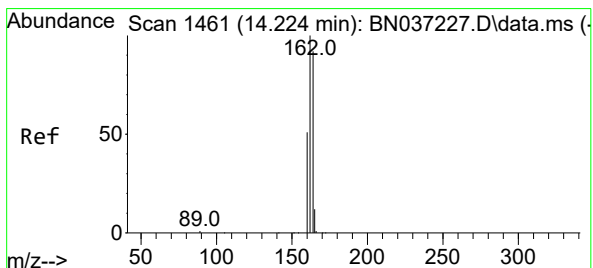
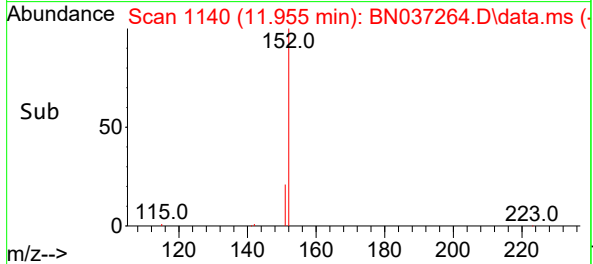
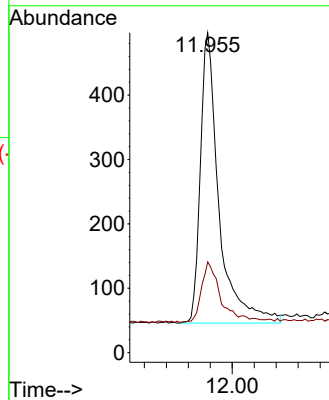
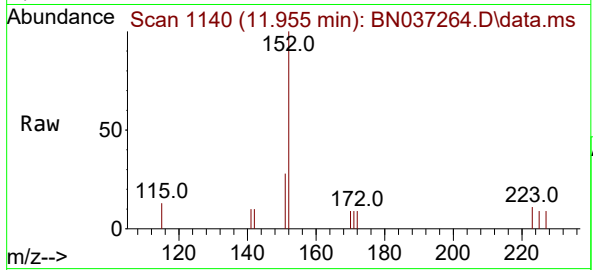




#11
2-Methylnaphthalene-d10
Concen: 0.321 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

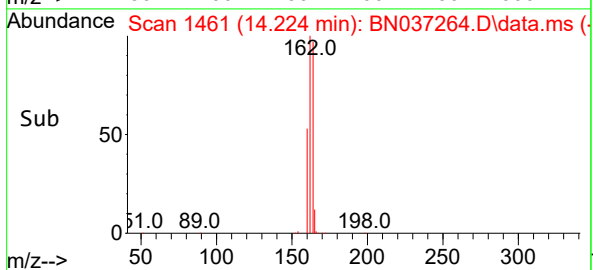
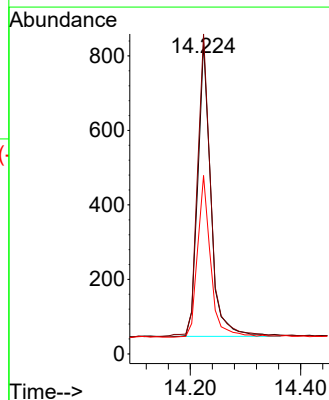
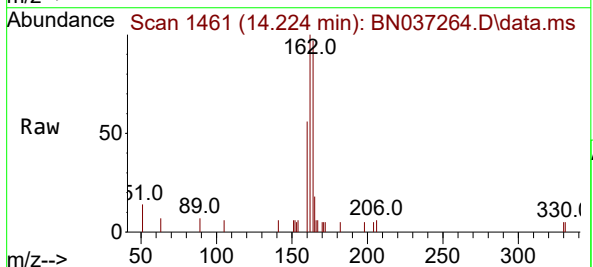
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

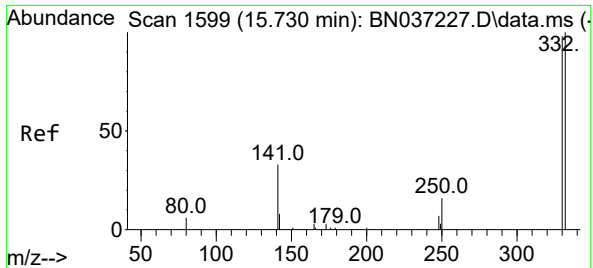
Tgt Ion:152 Resp: 1060
Ion Ratio Lower Upper
152 100
151 21.7 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:164 Resp: 1295
Ion Ratio Lower Upper
164 100
162 102.8 86.7 130.1
160 57.3 45.8 68.6

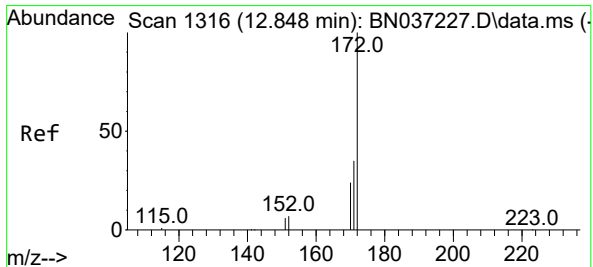
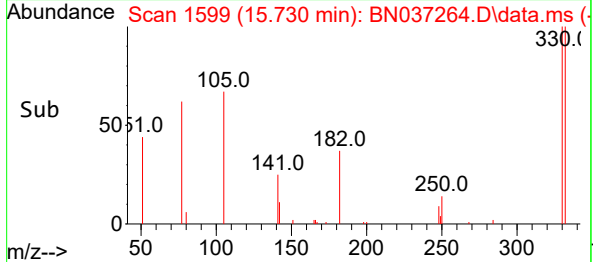
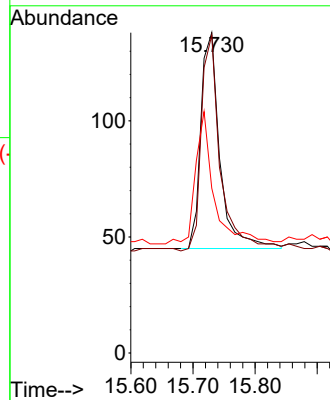
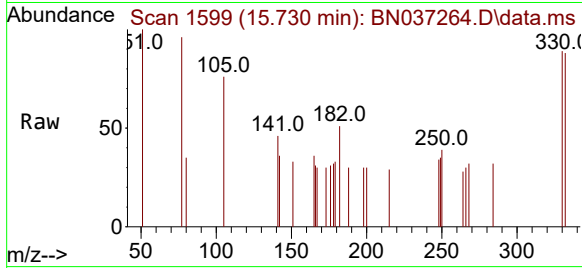




#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

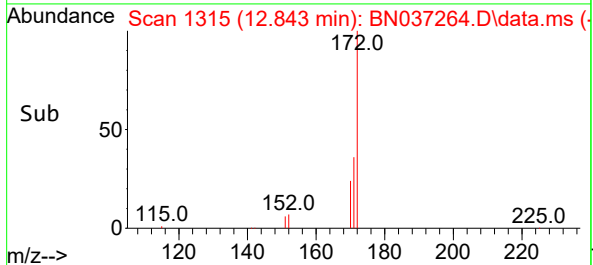
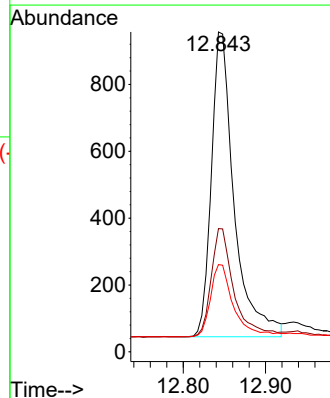
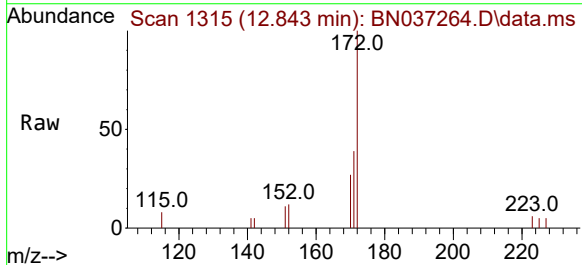
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

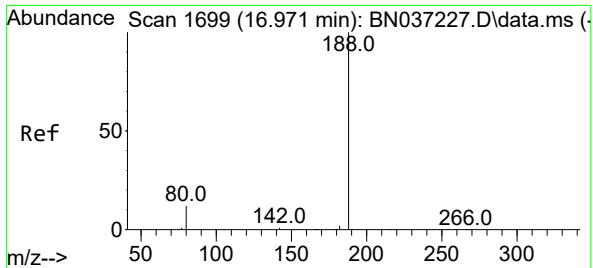
Tgt Ion	330	Resp	199
Ion Ratio	100		
332	103.0	74.9	112.3
141	59.3	45.1	67.7



#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion	172	Resp	1753
Ion Ratio <td>100</td> <td></td> <td></td>	100		
171	38.6	29.8	44.8
170	27.3	21.1	31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037264.D

Acq: 14 Jun 2025 16:23

Instrument :

BNA_N

ClientSampleId :

RE134D3-20250610

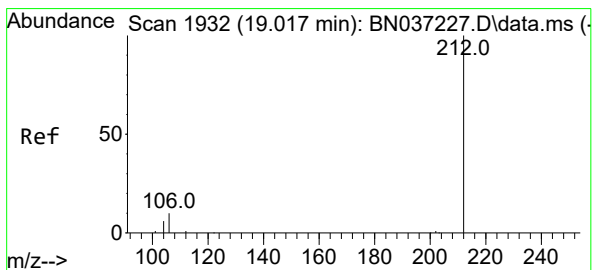
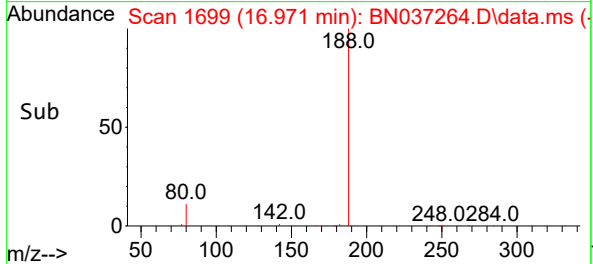
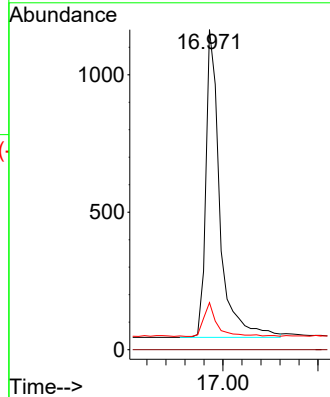
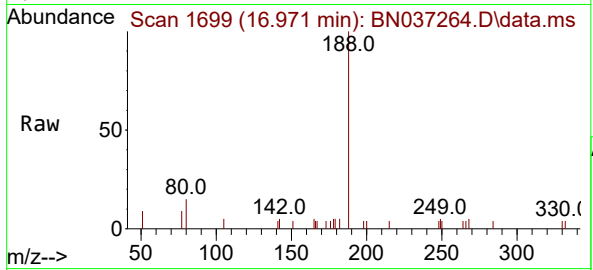
Tgt Ion:188 Resp: 2300

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.7 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037264.D

Acq: 14 Jun 2025 16:23

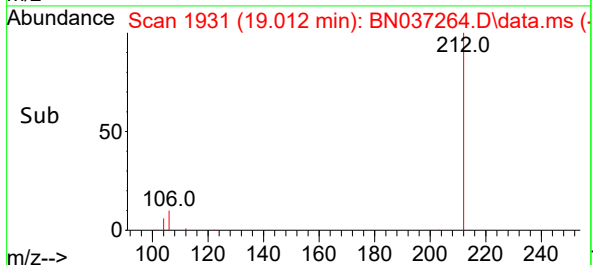
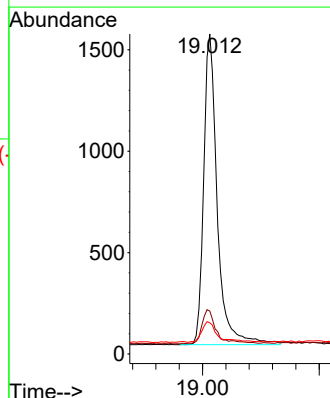
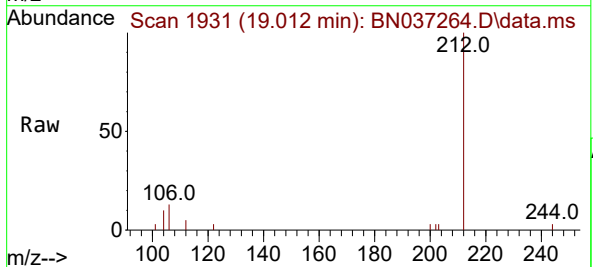
Tgt Ion:212 Resp: 2488

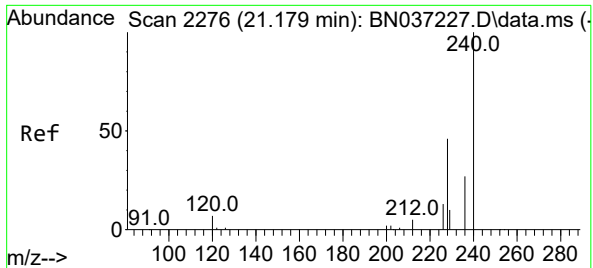
Ion Ratio Lower Upper

212 100

106 11.8 9.3 13.9

104 7.9 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037264.D

Acq: 14 Jun 2025 16:23

Instrument :

BNA_N

ClientSampleId :

RE134D3-20250610

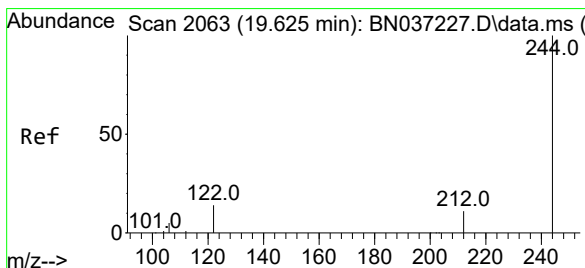
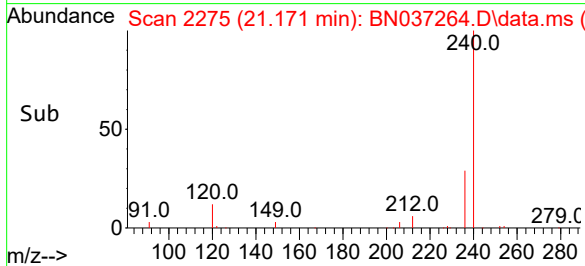
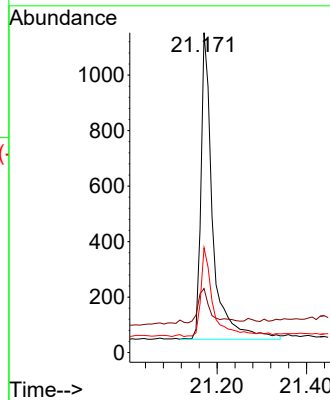
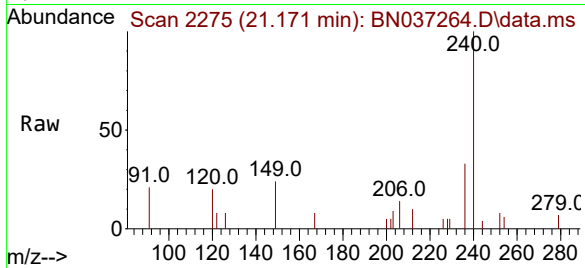
Tgt Ion:240 Resp: 2027

Ion Ratio Lower Upper

240 100

120 20.0 11.3 16.9#

236 32.8 24.4 36.6



#31

Terphenyl-d14

Concen: 0.411 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037264.D

Acq: 14 Jun 2025 16:23

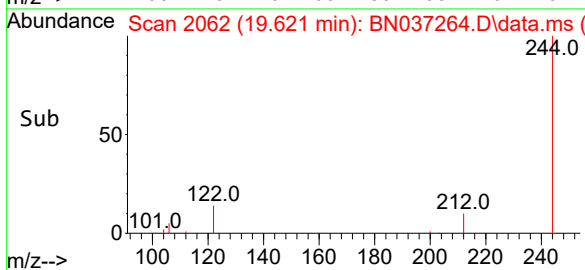
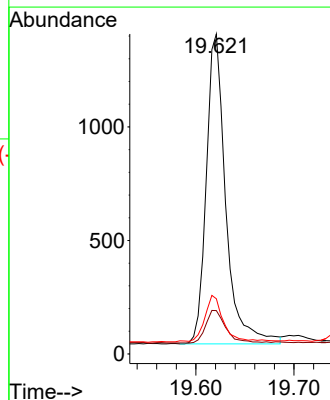
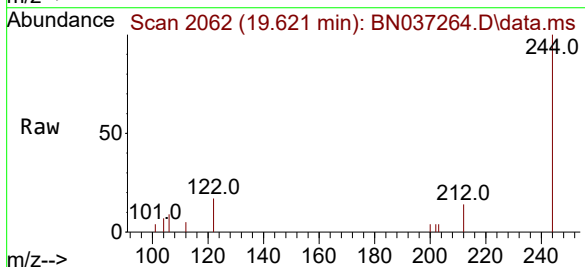
Tgt Ion:244 Resp: 1883

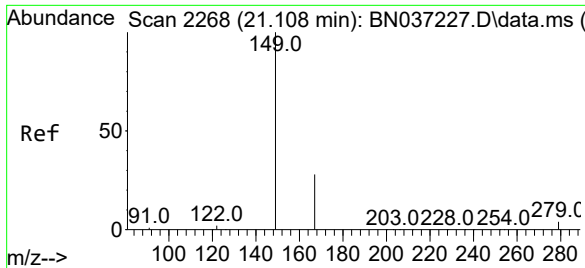
Ion Ratio Lower Upper

244 100

212 13.6 12.2 18.2

122 17.2 14.3 21.5

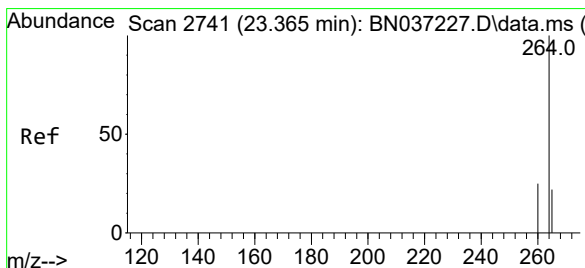
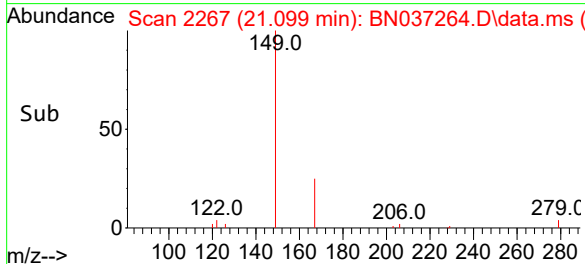
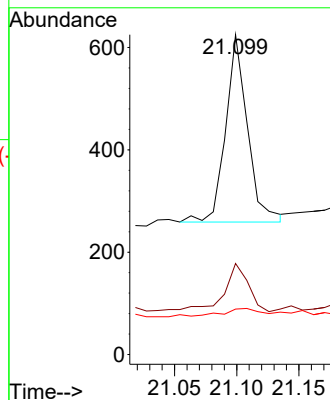
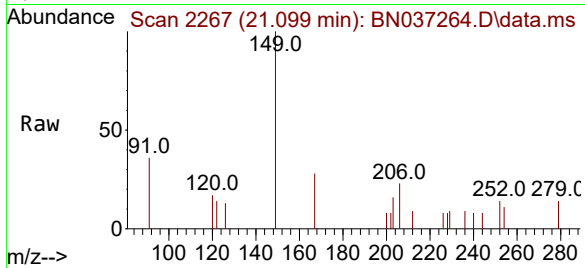




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

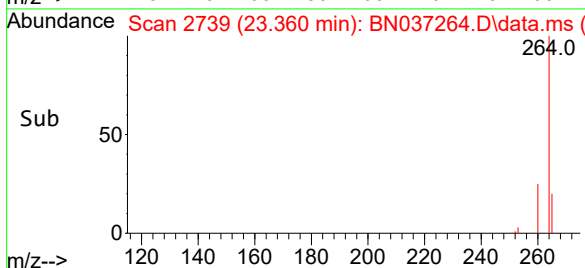
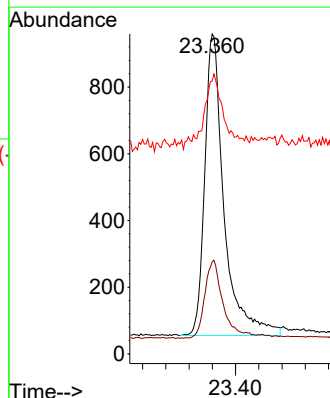
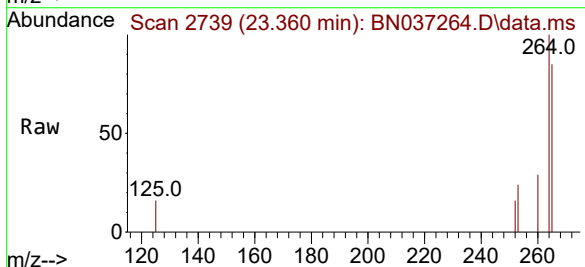
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610

Tgt Ion:149 Resp: 448
Ion Ratio Lower Upper
149 100
167 27.9 21.3 31.9
279 8.0 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037264.D
Acq: 14 Jun 2025 16:23

Tgt Ion:264 Resp: 2087
Ion Ratio Lower Upper
264 100
260 28.8 22.8 34.2
265 85.3 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/10/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D3-20250610DL	SDG No.:	Q2299
Lab Sample ID:	Q2299-17DL	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
BN037286.D	2	06/13/25 08:03	06/16/25 11:39	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.60	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		110%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	929		7.575			
1146-65-2	Naphthalene-d8	2310		10.362			
15067-26-2	Acenaphthene-d10	1310		14.224			
1517-22-2	Phenanthrene-d10	2320		16.971			
1719-03-5	Chrysene-d12	1780		21.18			
1520-96-3	Perylene-d12	1750		23.36			

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\BN061625\
 Data File : BN037286.D
 Acq On : 16 Jun 2025 11:39
 Operator : RC/JU
 Sample : Q2299-17DL 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE134D3-20250610DL

Quant Time: Jun 16 12:25:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

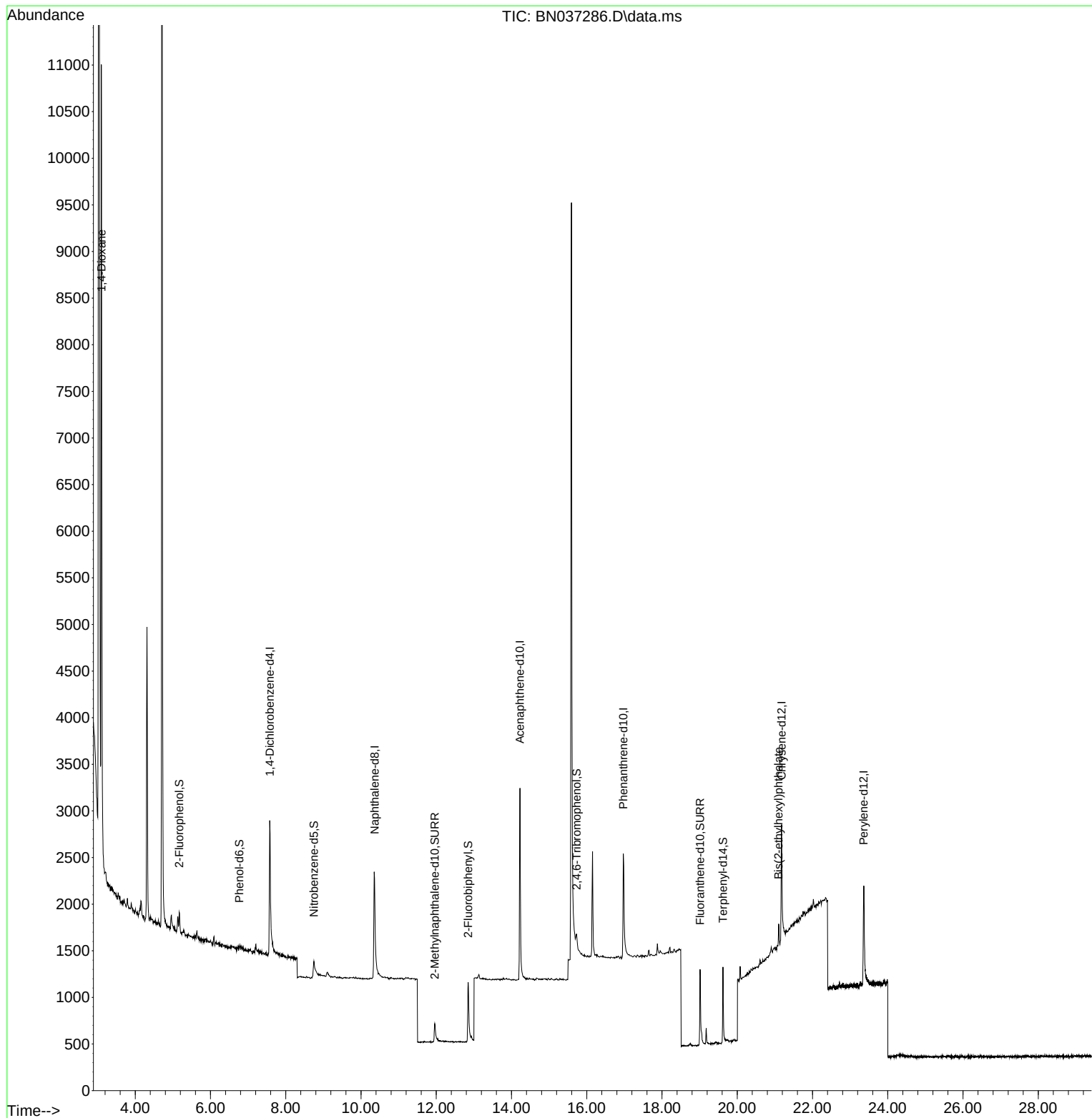
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	929	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2314	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1314	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2315	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1782	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1749	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	156	0.068	ng	0.00
5) Phenol-d6	6.766	99	81	0.034	ng	0.00
8) Nitrobenzene-d5	8.749	82	318	0.139	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	486	0.157	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	97	0.178	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	829	0.150	ng	0.00
27) Fluoranthene-d10	19.012	212	1190	0.196	ng	0.00
31) Terphenyl-d14	19.621	244	886	0.220	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	4235	3.323	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	260	0.058	ng	# 96

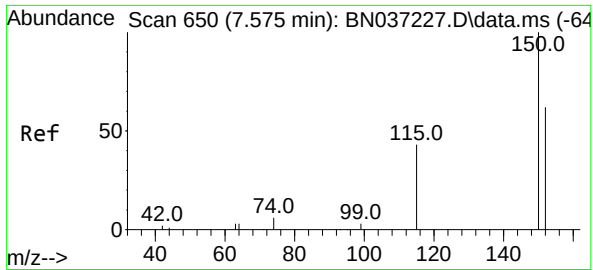
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037286.D
Acq On : 16 Jun 2025 11:39
Operator : RC/JU
Sample : Q2299-17DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

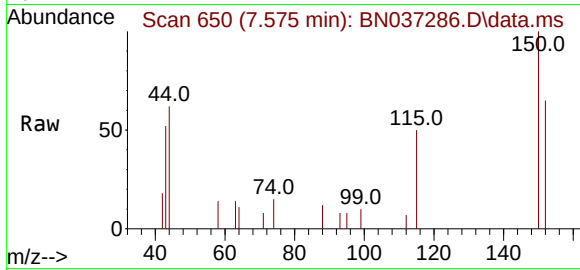
Quant Time: Jun 16 12:25:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



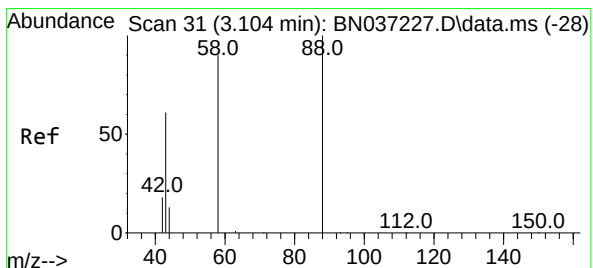
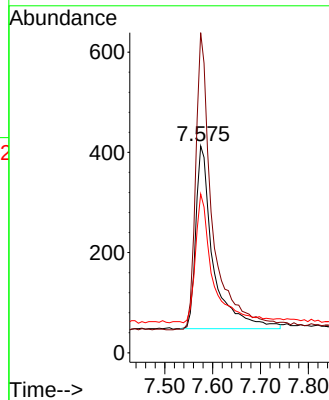
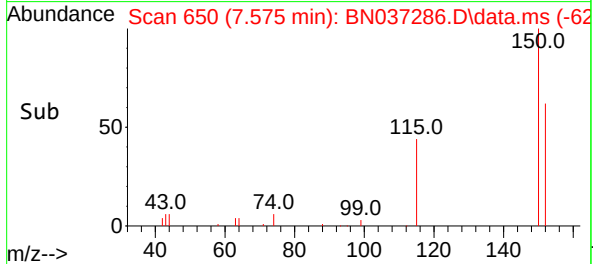


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

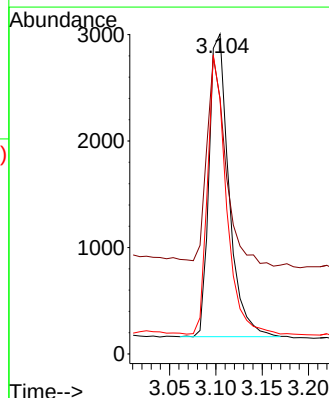
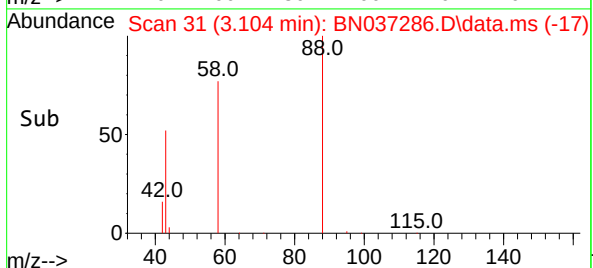
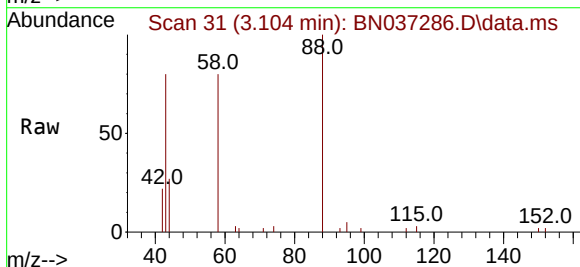


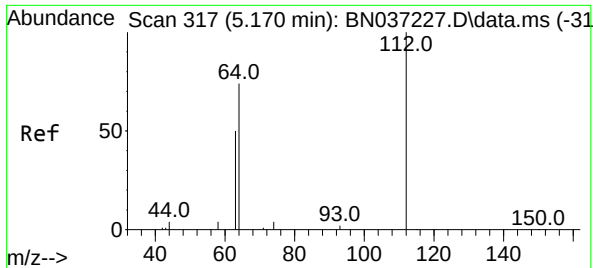
Tgt Ion:152 Resp: 929
Ion Ratio Lower Upper
152 100
150 154.7 125.2 187.8
115 76.8 58.4 87.6



#2
1,4-Dioxane
Concen: 3.323 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion: 88 Resp: 4235
Ion Ratio Lower Upper
88 100
43 65.9 52.6 79.0
58 87.1 73.5 110.3

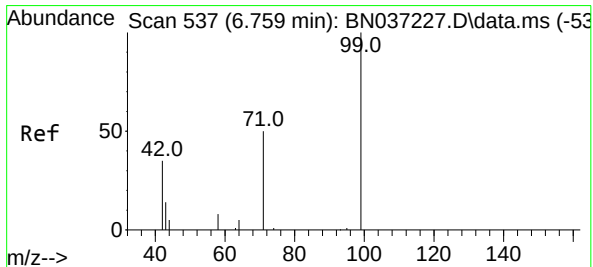
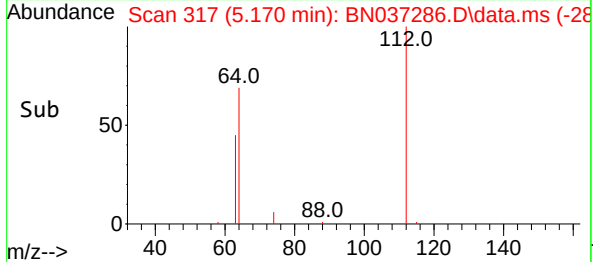
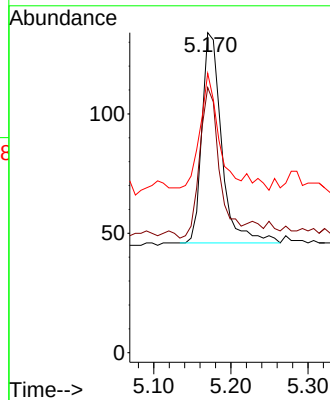
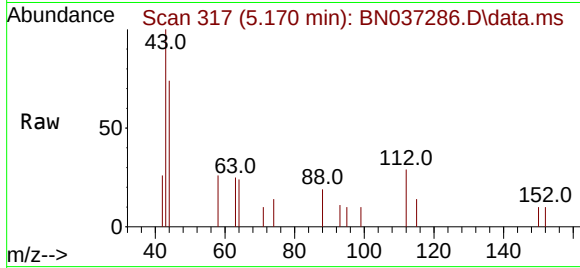




#4
2-Fluorophenol
Concen: 0.068 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

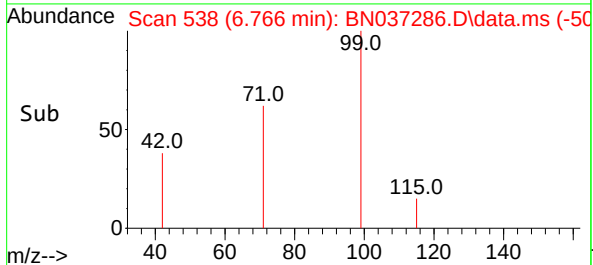
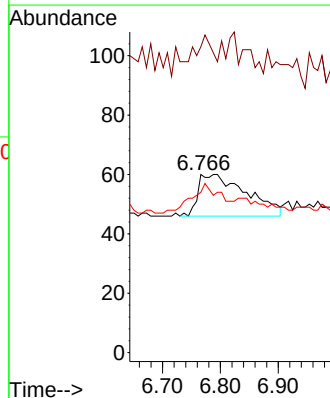
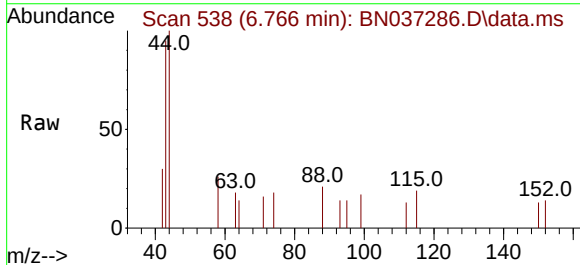
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

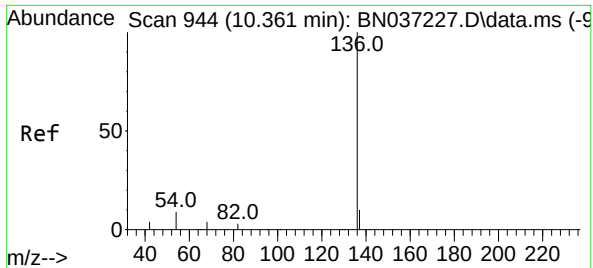
Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.8	57.2	85.8
63	50.0	39.8	59.6



#5
Phenol-d6
Concen: 0.034 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.2	36.2	54.4#
71	42.0	42.4	63.6#

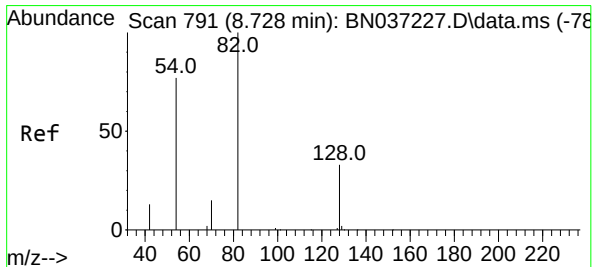
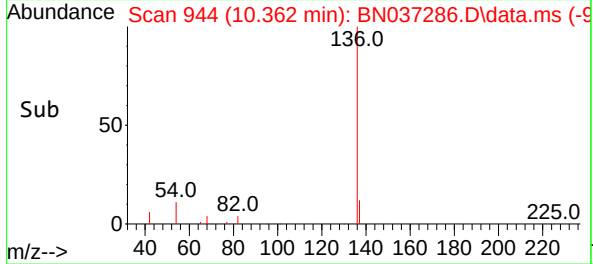
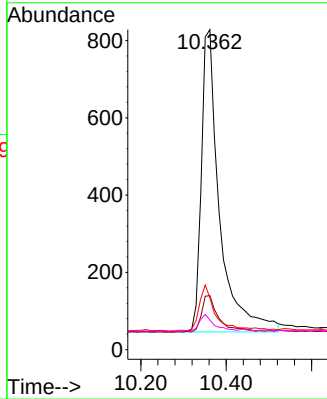
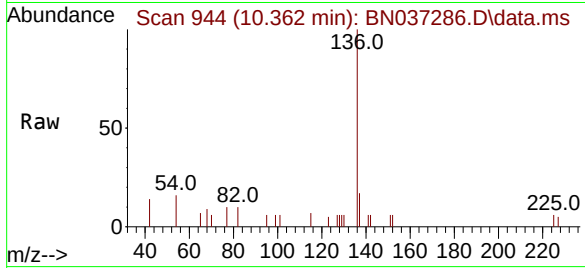




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

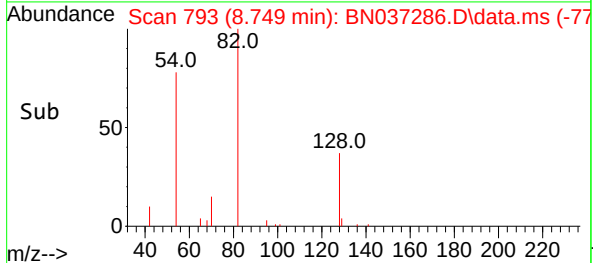
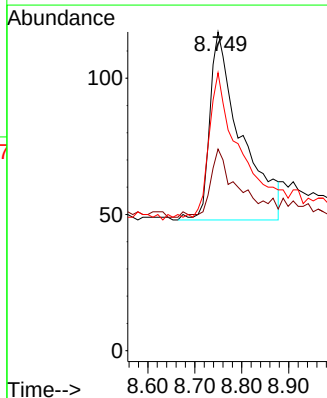
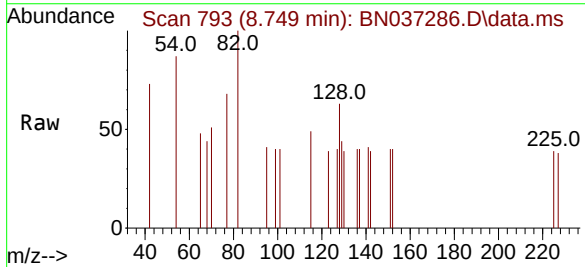
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

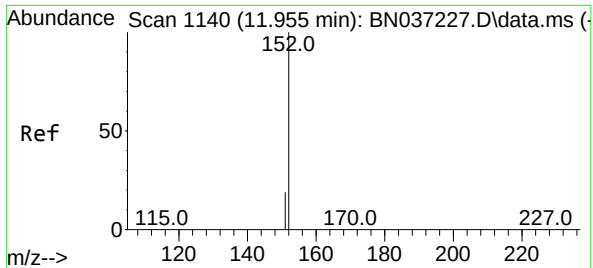
Tgt Ion:	136	Resp:	2314
Ion	Ratio	Lower	Upper
136	100		
137	16.9	10.6	15.8#
54	16.2	9.2	13.8#
68	9.3	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.139 ng
RT: 8.749 min Scan# 793
Delta R.T. 0.022 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:	82	Resp:	318
Ion	Ratio	Lower	Upper
82	100		
128	63.2	31.2	46.8#
54	87.2	63.3	94.9

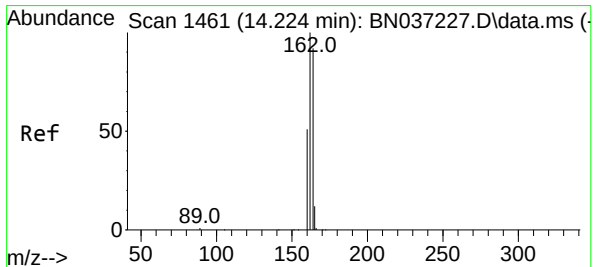
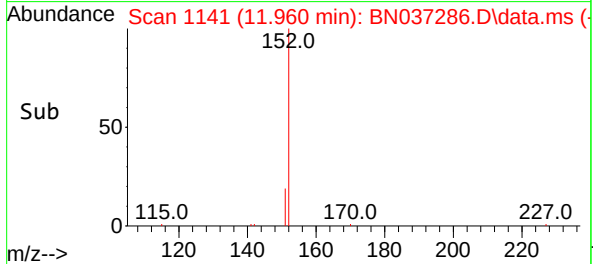
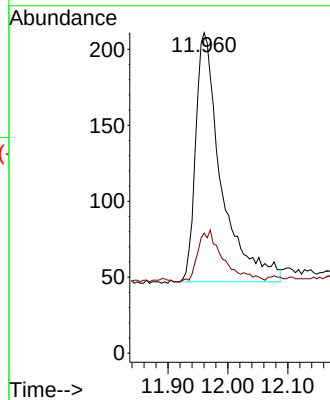
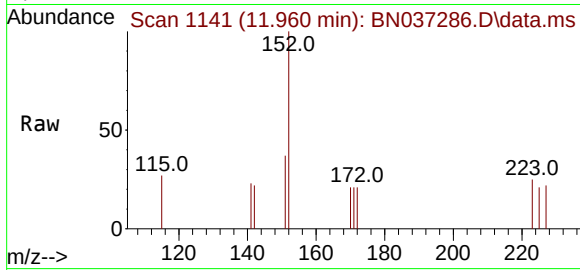




#11
2-Methylnaphthalene-d10
Concen: 0.157 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

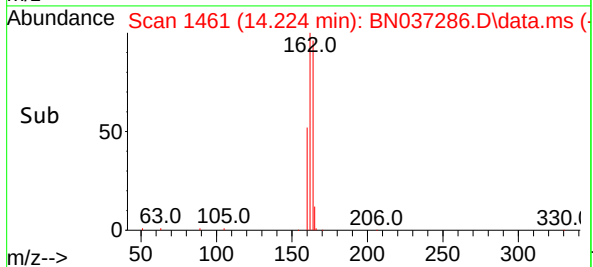
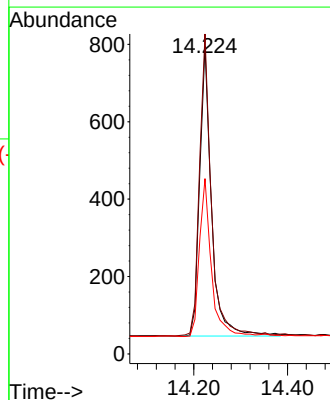
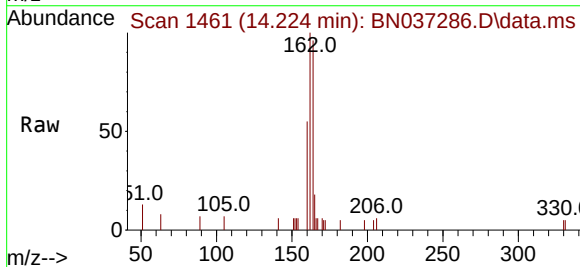
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

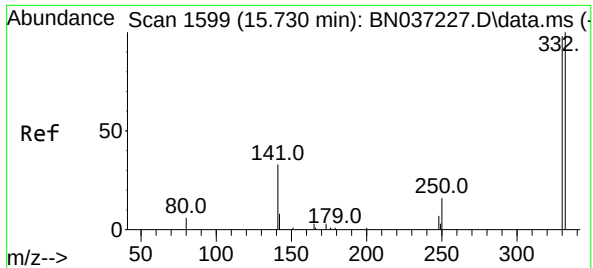
Tgt Ion:152 Resp: 486
Ion Ratio Lower Upper
152 100
151 20.6 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:164 Resp: 1314
Ion Ratio Lower Upper
164 100
162 104.0 86.7 130.1
160 57.0 45.8 68.6

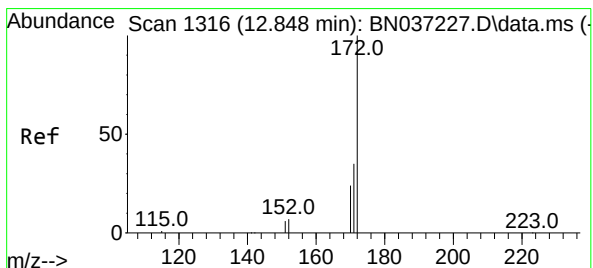
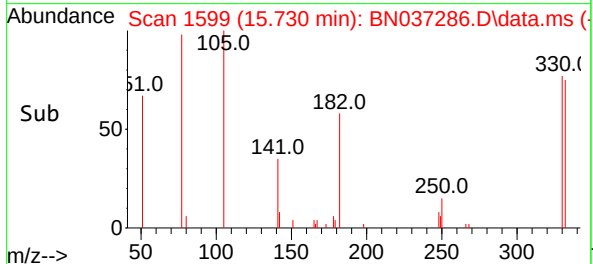
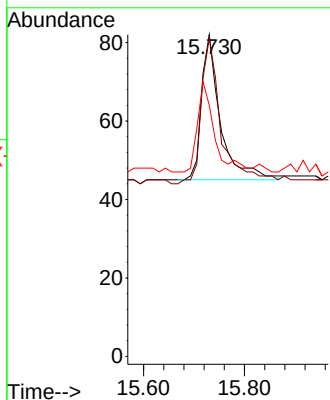
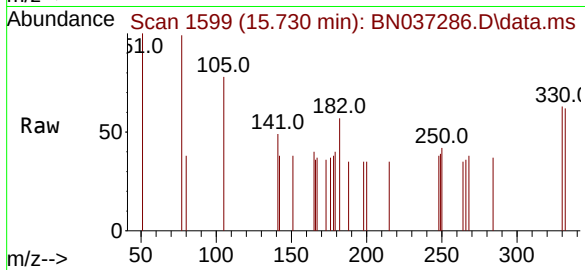




#14
2,4,6-Tribromophenol
Concen: 0.178 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

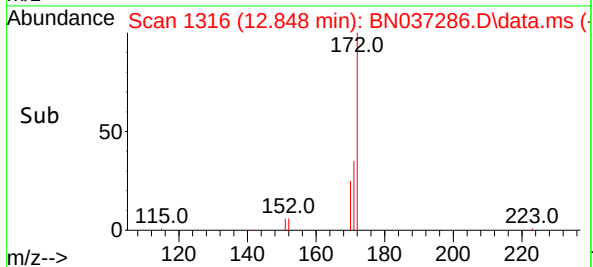
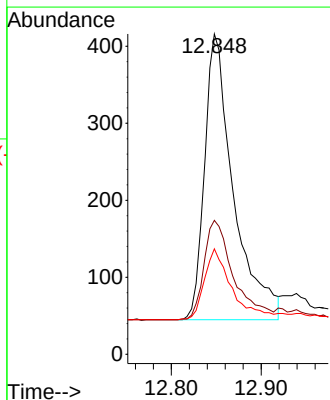
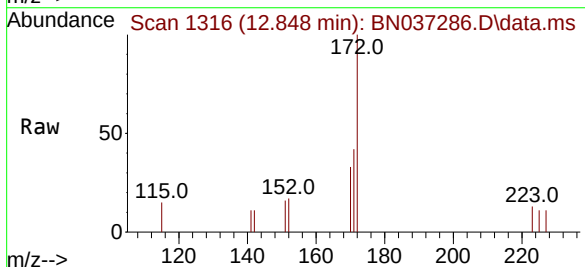
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

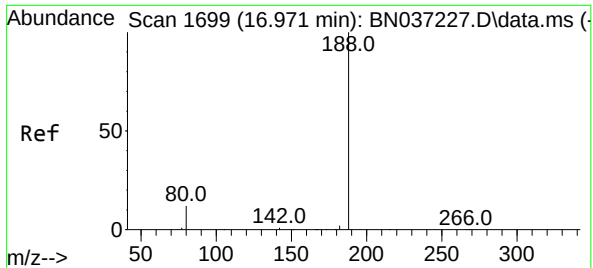
Tgt Ion:330 Resp: 97
Ion Ratio Lower Upper
330 100
332 106.2 74.9 112.3
141 55.7 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.150 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion:172 Resp: 829
Ion Ratio Lower Upper
172 100
171 41.8 29.8 44.8
170 32.9 21.1 31.7#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037286.D

Acq: 16 Jun 2025 11:39

Instrument :

BNA_N

ClientSampleId :

RE134D3-20250610DL

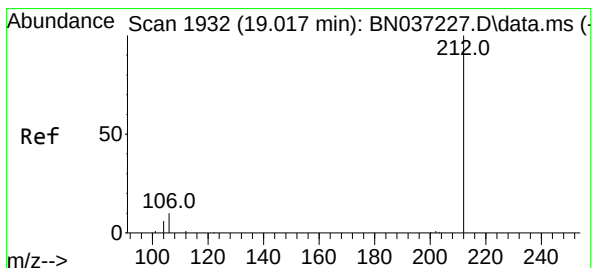
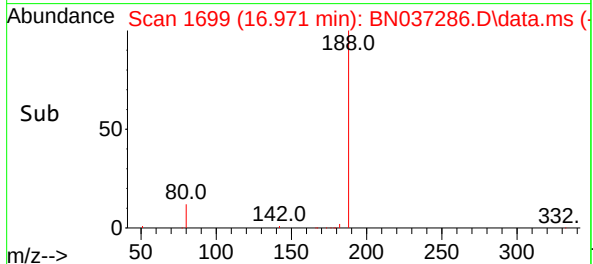
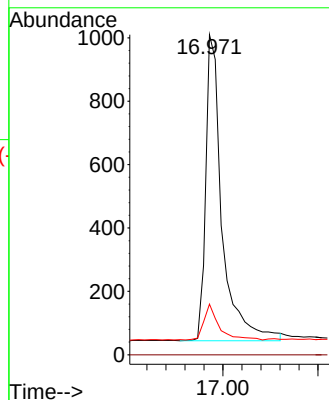
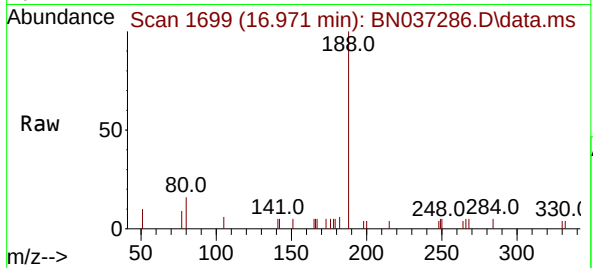
Tgt Ion:188 Resp: 2315

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.8 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.196 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037286.D

Acq: 16 Jun 2025 11:39

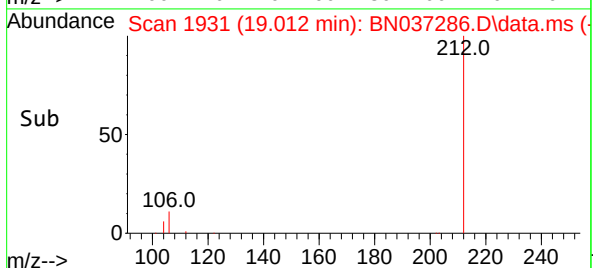
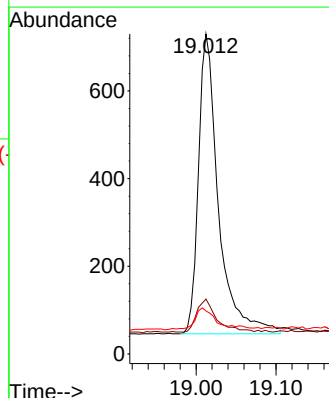
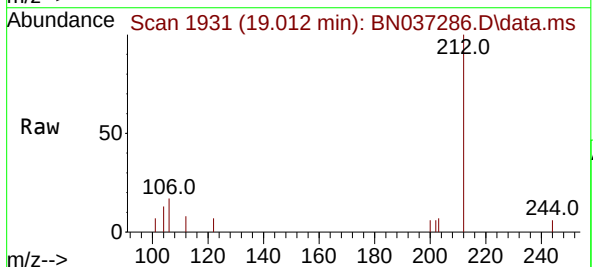
Tgt Ion:212 Resp: 1190

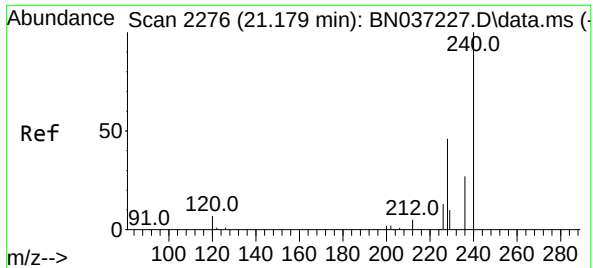
Ion Ratio Lower Upper

212 100

106 11.0 9.3 13.9

104 8.1 5.7 8.5

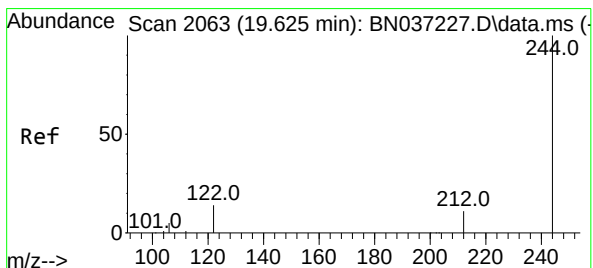
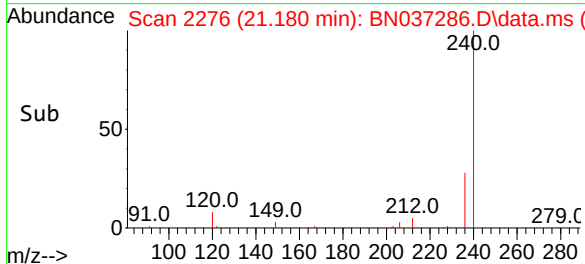
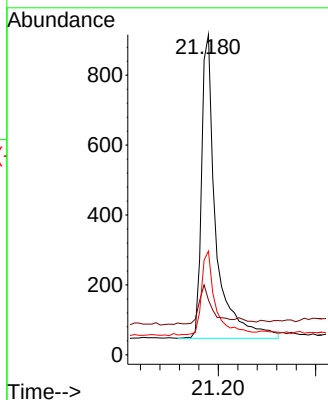
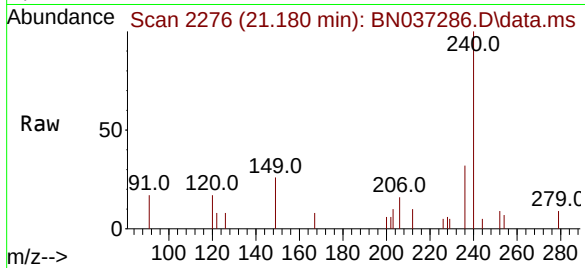




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

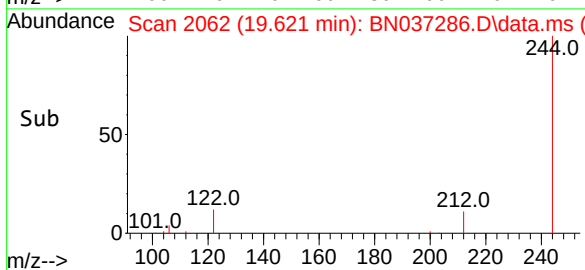
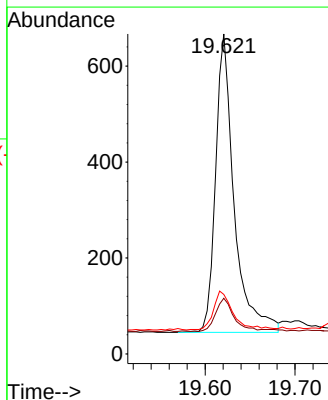
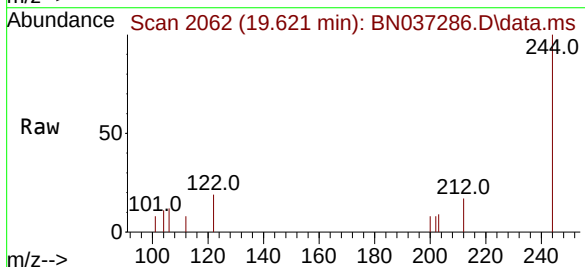
Instrument :
BNA_N
ClientSampleId :
RE134D3-20250610DL

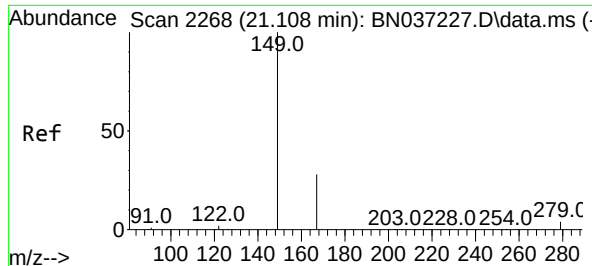
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.1	11.3	16.9#
236	32.4	24.4	36.6



#31
Terphenyl-d14
Concen: 0.220 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037286.D
Acq: 16 Jun 2025 11:39

Tgt Ion	Ratio	Lower	Upper
244	100		
212	17.4	12.2	18.2
122	18.6	14.3	21.5





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.058 ng

RT: 21.099 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037286.D

Acq: 16 Jun 2025 11:39

Instrument :

BNA_N

ClientSampleId :

RE134D3-20250610DL

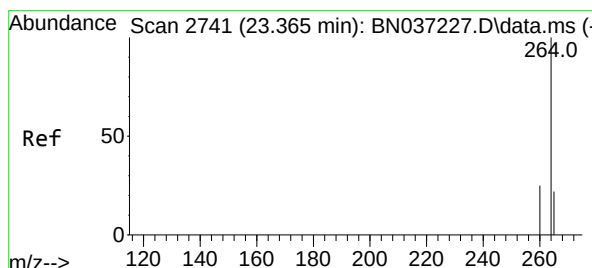
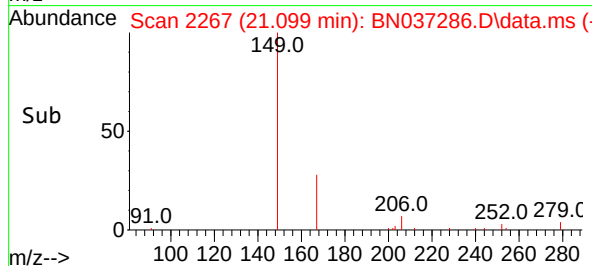
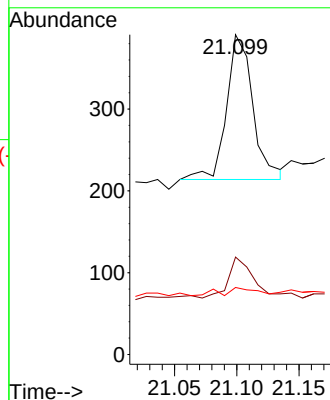
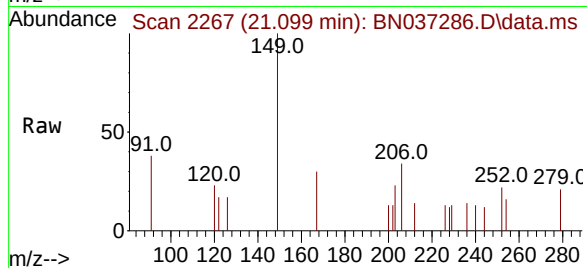
Tgt Ion:149 Resp: 260

Ion Ratio Lower Upper

149 100

167 28.5 21.3 31.9

279 6.9 3.3 4.9#



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 2739

Delta R.T. -0.006 min

Lab File: BN037286.D

Acq: 16 Jun 2025 11:39

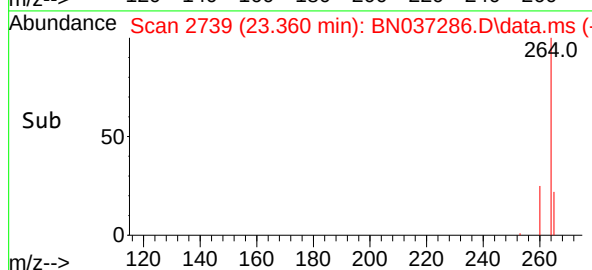
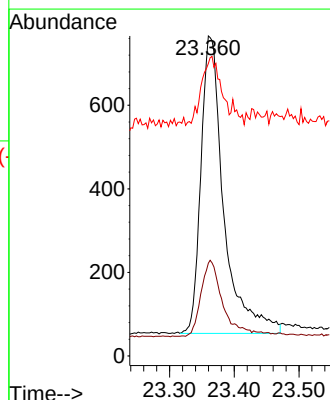
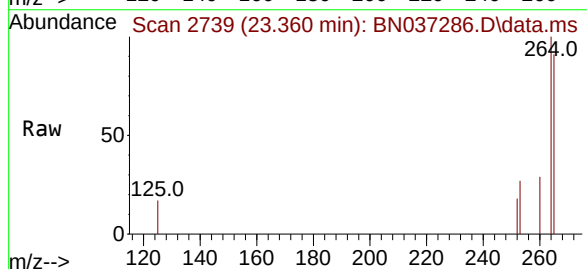
Tgt Ion:264 Resp: 1749

Ion Ratio Lower Upper

264 100

260 29.0 22.8 34.2

265 91.4 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT190D1-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-18	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
BN037265.D	1	06/13/25 08:03	06/14/25 17:00	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.40		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	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	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	1130	7.575				
1146-65-2	Naphthalene-d8	2840	10.351				
15067-26-2	Acenaphthene-d10	1550	14.224				
1517-22-2	Phenanthrene-d10	2840	16.971				
1719-03-5	Chrysene-d12	2560	21.171				
1520-96-3	Perylene-d12	2400	23.357				

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\BN061325\
 Data File : BN037265.D
 Acq On : 14 Jun 2025 17:00
 Operator : RC/JU
 Sample : Q2299-18
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT190D1-20250611

Quant Time: Jun 16 02:43:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

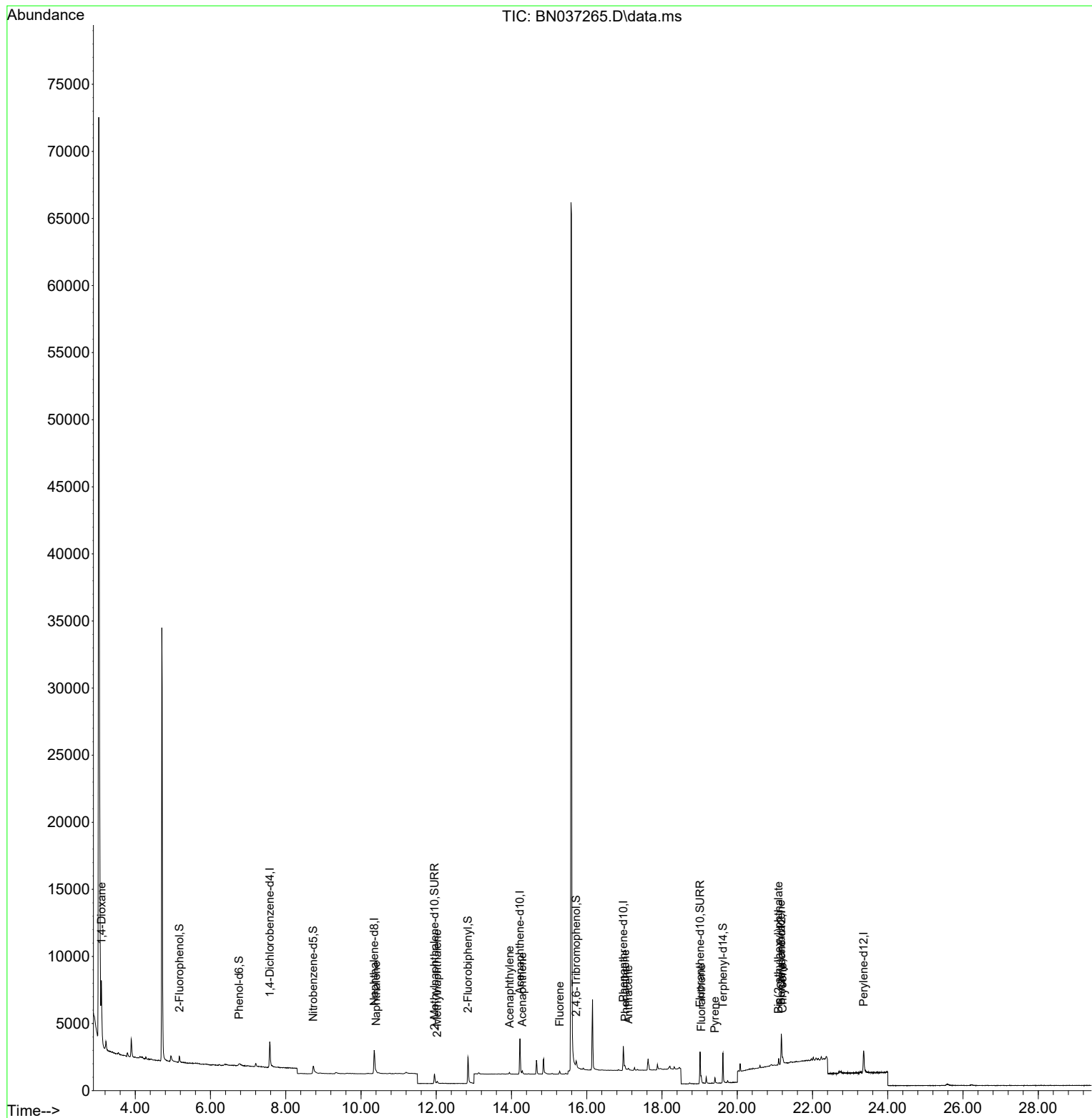
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1132	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2844	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1545	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2840	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2558	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	2398	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	341	0.123	ng	0.00
5) Phenol-d6	6.759	99	172	0.059	ng	0.00
8) Nitrobenzene-d5	8.728	82	798	0.284	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1174	0.308	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	222	0.346	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2041	0.314	ng	0.00
27) Fluoranthene-d10	19.012	212	3030	0.408	ng	0.00
31) Terphenyl-d14	19.621	244	2397	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2246	1.446	ng	# 89
9) Naphthalene	10.404	128	215	0.026	ng	# 29
12) 2-Methylnaphthalene	12.026	142	123	0.025	ng	# 84
16) Acenaphthylene	13.946	152	155	0.020	ng	94
17) Acenaphthene	14.288	154	110	0.023	ng	100
18) Fluorene	15.282	166	144	0.023	ng	94
25) Phenanthrene	17.021	178	353	0.039	ng	95
26) Anthracene	17.108	178	178	0.022	ng	99
28) Fluoranthene	19.040	202	393	0.037	ng	# 87
30) Pyrene	19.407	202	420	0.035	ng	98
32) Benzo(a)anthracene	21.162	228	261	0.030	ng	# 64
33) Chrysene	21.207	228	281	0.026	ng	# 71
34) Bis(2-ethylhexyl)phtha...	21.099	149	429	0.067	ng	# 97

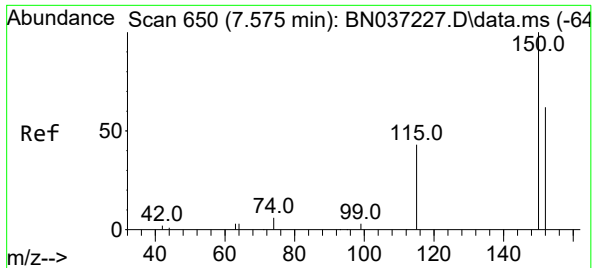
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037265.D
Acq On : 14 Jun 2025 17:00
Operator : RC/JU
Sample : Q2299-18
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

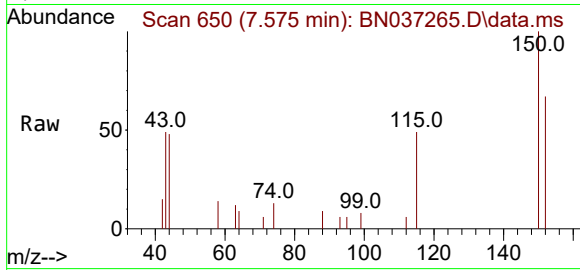
Quant Time: Jun 16 02:43:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



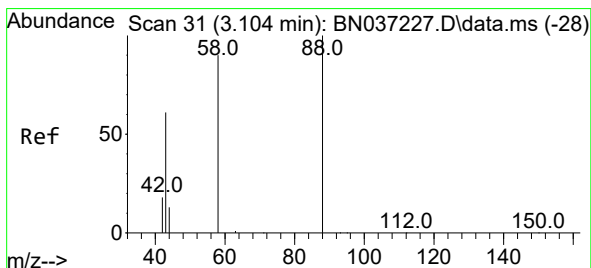
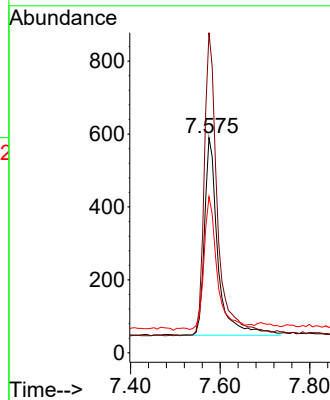
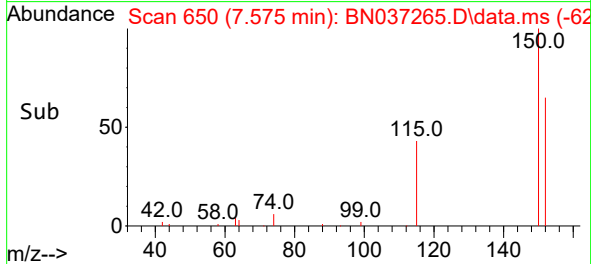


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

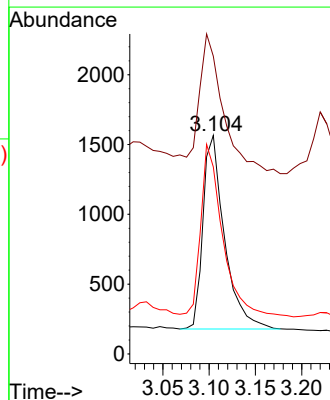
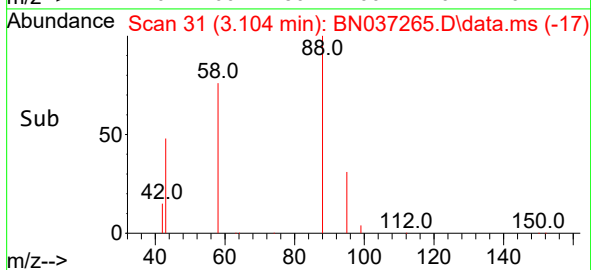
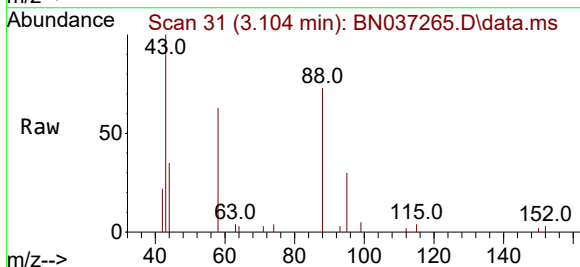


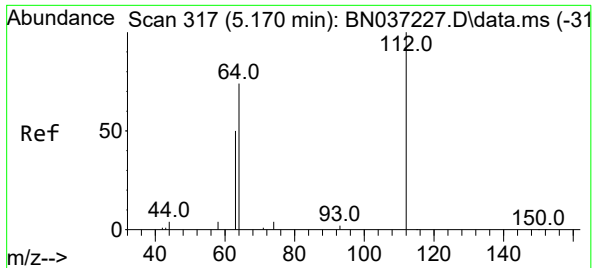
Tgt Ion:152 Resp: 1132
Ion Ratio Lower Upper
152 100
150 148.8 125.2 187.8
115 72.5 58.4 87.6



#2
1,4-Dioxane
Concen: 1.446 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion: 88 Resp: 2246
Ion Ratio Lower Upper
88 100
43 80.4 52.6 79.0#
58 86.9 73.5 110.3

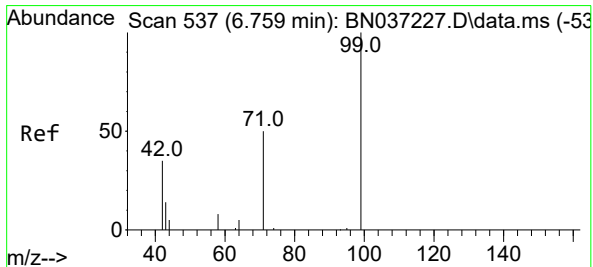
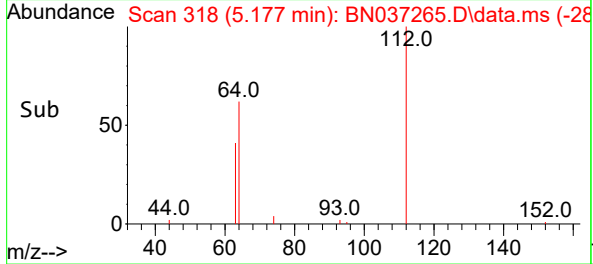
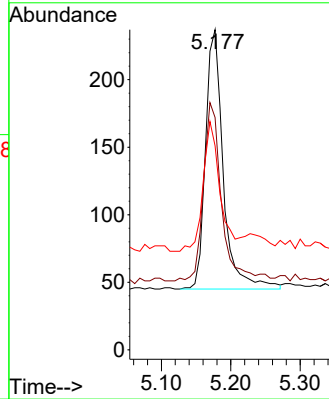
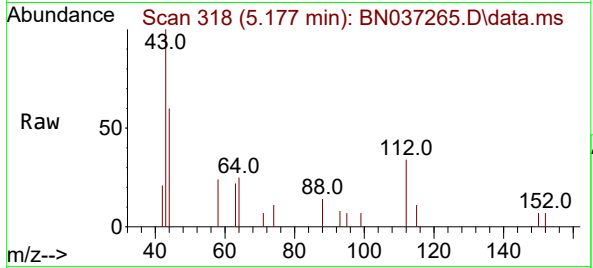




#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

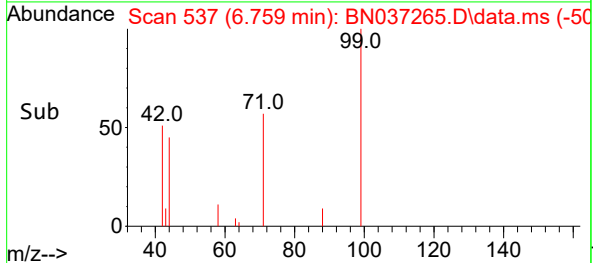
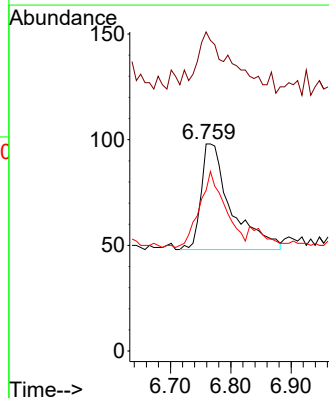
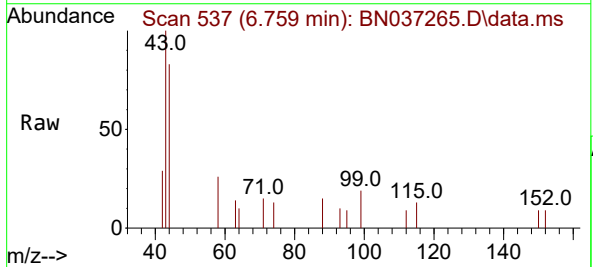
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

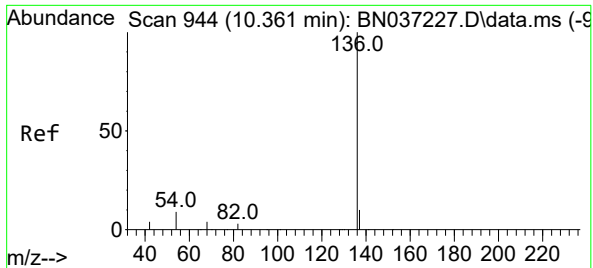
Tgt Ion:112 Resp: 341
Ion Ratio Lower Upper
112 100
64 72.1 57.2 85.8
63 48.1 39.8 59.6



#5
Phenol-d6
Concen: 0.059 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion: 99 Resp: 172
Ion Ratio Lower Upper
99 100
42 65.7 36.2 54.4#
71 61.6 42.4 63.6

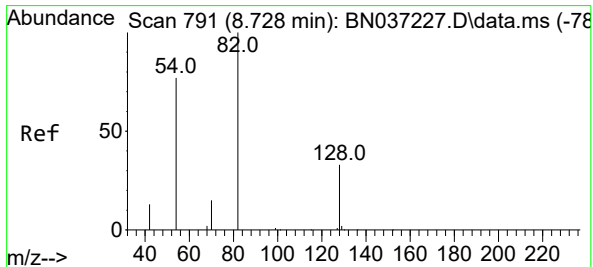
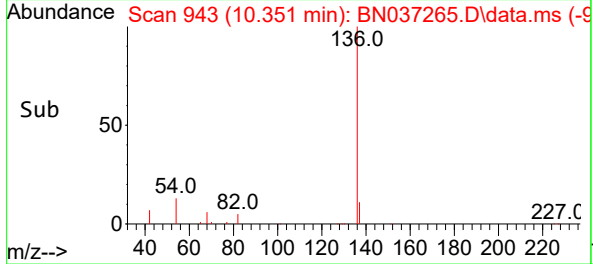
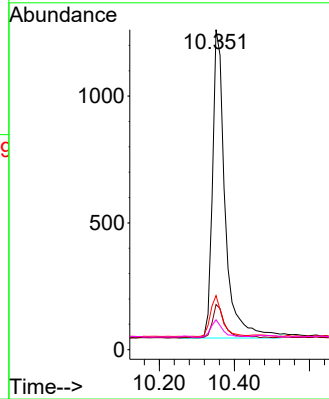
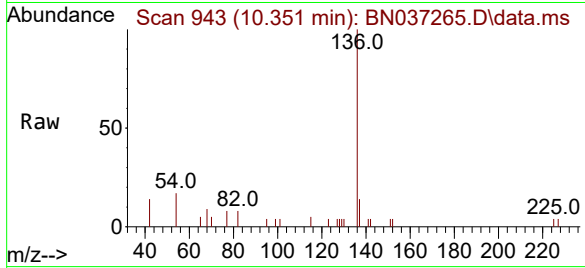




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

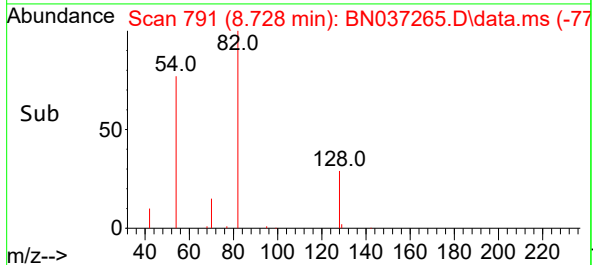
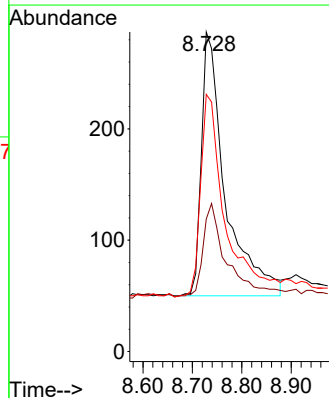
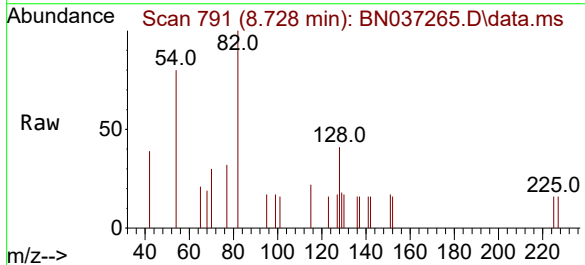
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

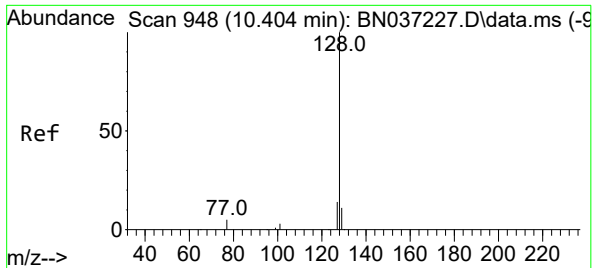
Tgt Ion:	136	Resp:	2844
Ion	Ratio	Lower	Upper
136	100		
137	14.1	10.6	15.8
54	16.9	9.2	13.8#
68	9.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:	82	Resp:	798
Ion	Ratio	Lower	Upper
82	100		
128	41.5	31.2	46.8
54	80.5	63.3	94.9

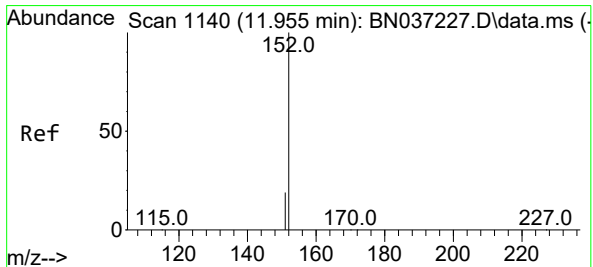
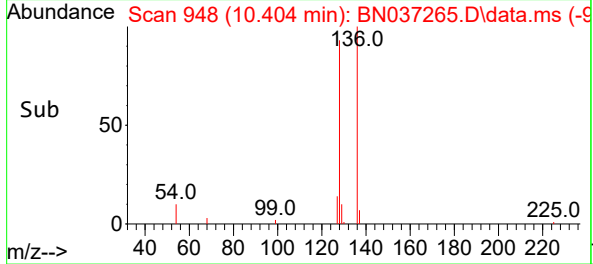
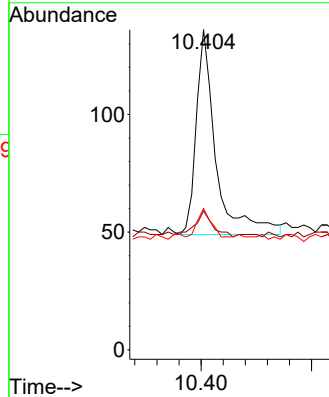
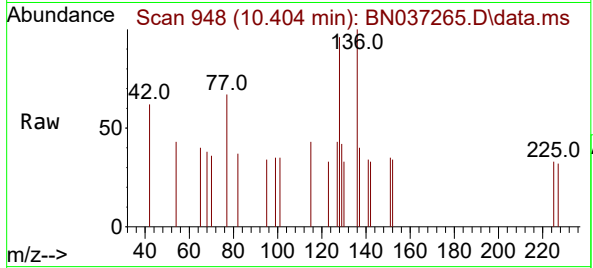




#9
Naphthalene
Concen: 0.026 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

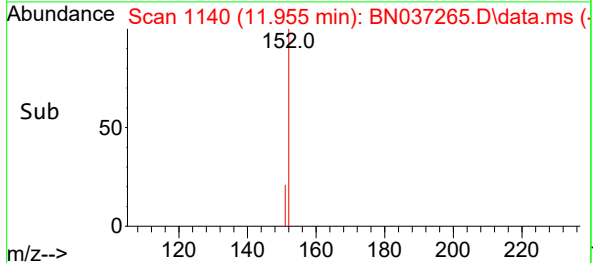
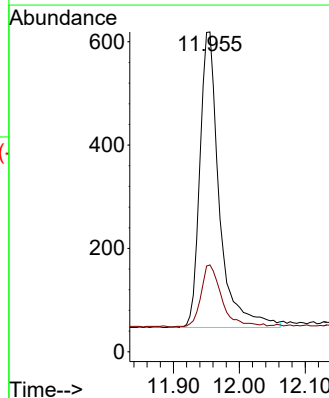
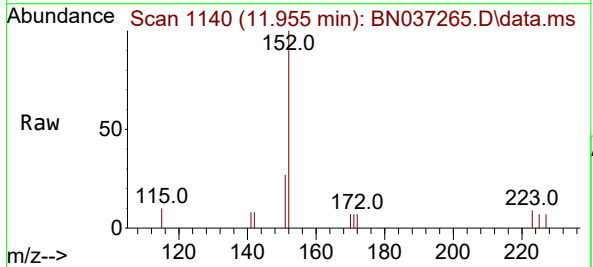
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

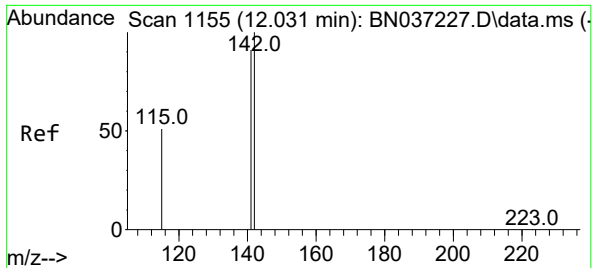
Tgt Ion:128 Resp: 215
Ion Ratio Lower Upper
128 100
129 43.4 10.7 16.1#
127 44.1 12.6 19.0#



#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:152 Resp: 1174
Ion Ratio Lower Upper
152 100
151 22.6 17.9 26.9





#12

2-Methylnaphthalene

Concen: 0.025 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037265.D

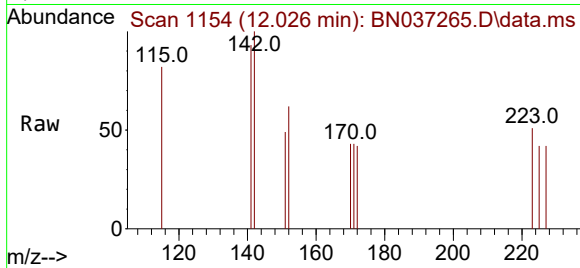
Acq: 14 Jun 2025 17:00

Instrument :

BNA_N

ClientSampleId :

TT190D1-20250611



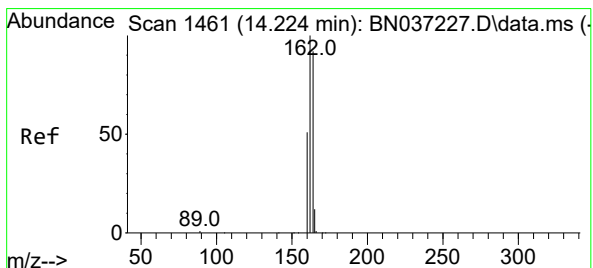
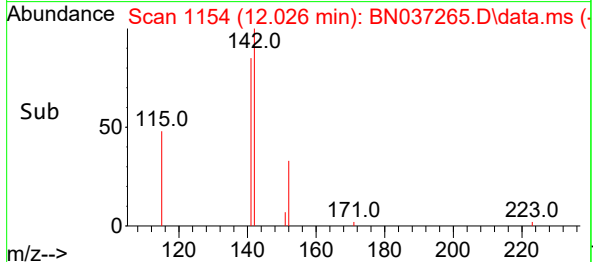
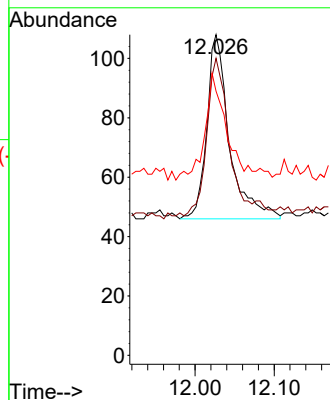
Tgt Ion:142 Resp: 123

Ion Ratio Lower Upper

142 100

141 92.6 73.0 109.6

115 82.4 43.3 64.9#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

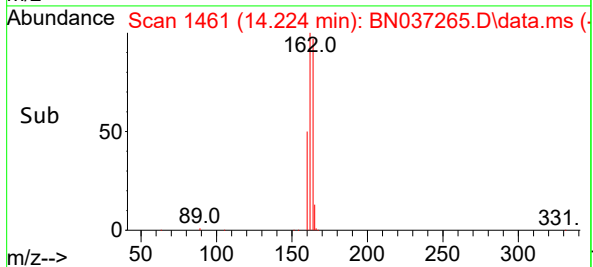
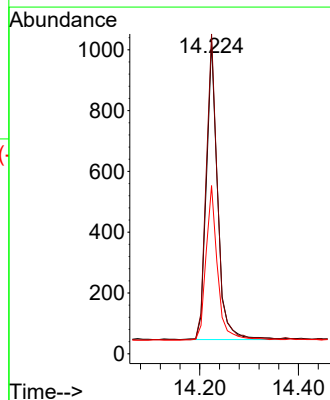
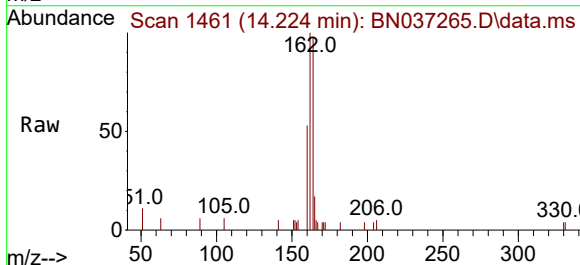
Tgt Ion:164 Resp: 1545

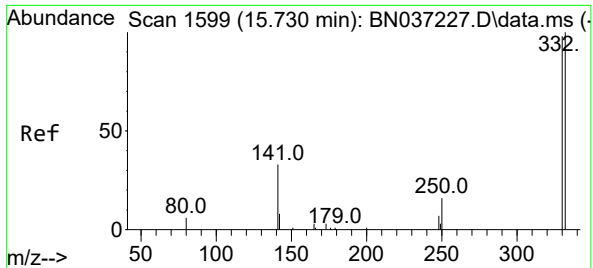
Ion Ratio Lower Upper

164 100

162 102.4 86.7 130.1

160 53.8 45.8 68.6

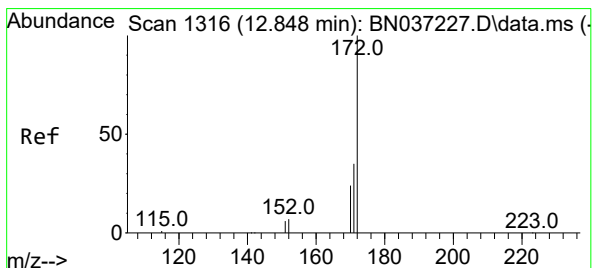
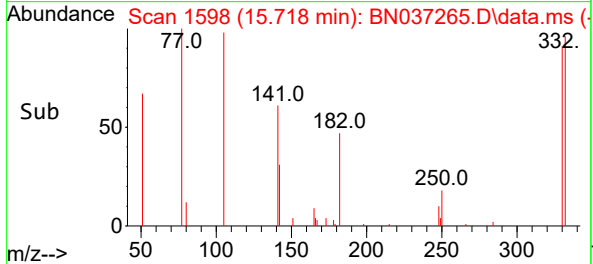
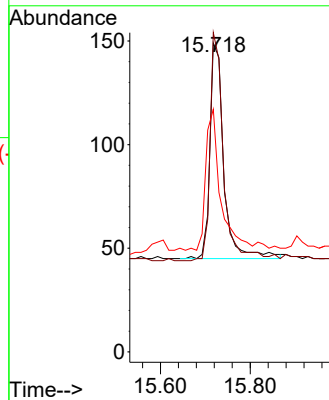
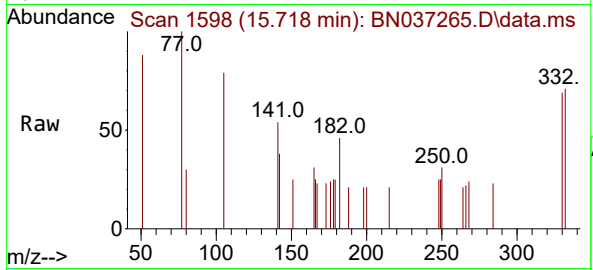




#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

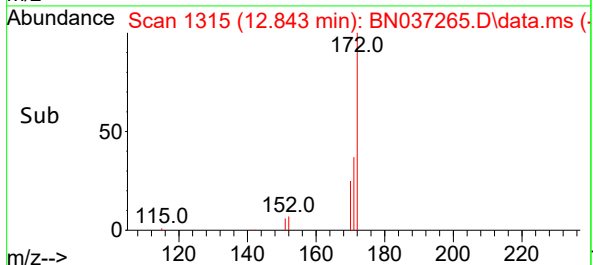
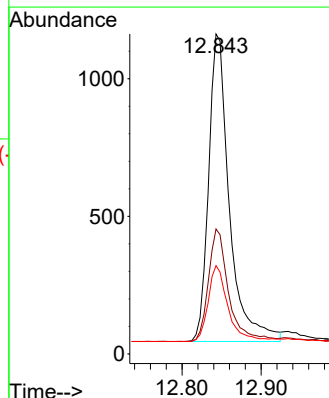
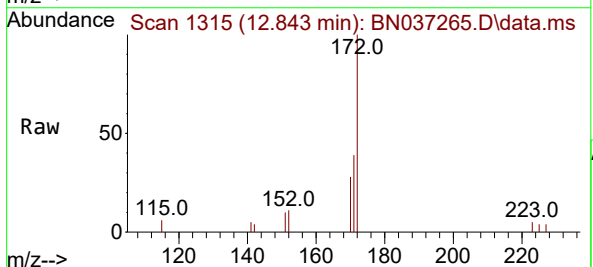
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

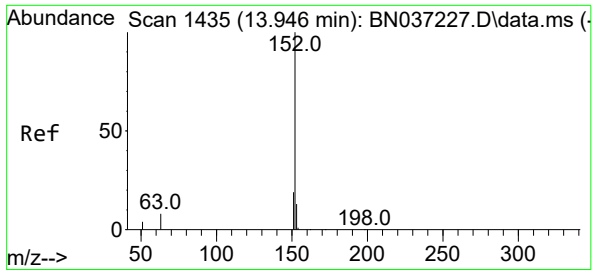
Tgt Ion:330 Resp: 222
Ion Ratio Lower Upper
330 100
332 101.8 74.9 112.3
141 69.4 45.1 67.7#



#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:172 Resp: 2041
Ion Ratio Lower Upper
172 100
171 39.0 29.8 44.8
170 27.6 21.1 31.7

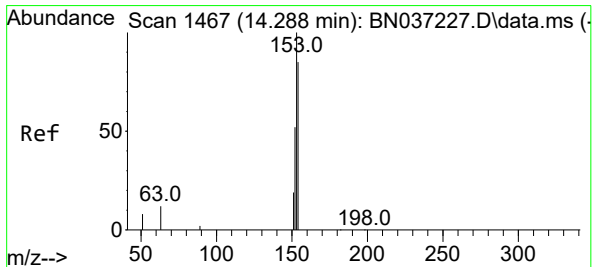
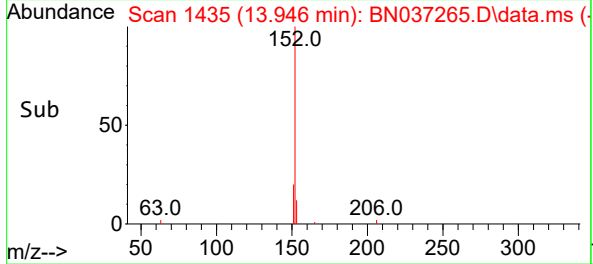
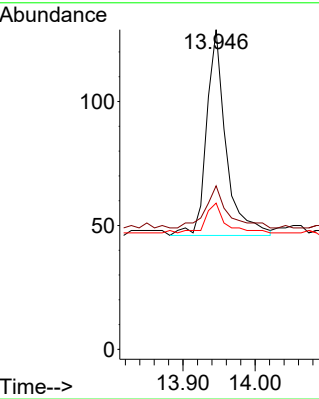
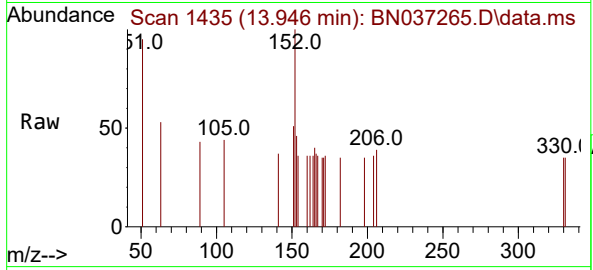




#16
Acenaphthylene
Concen: 0.020 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

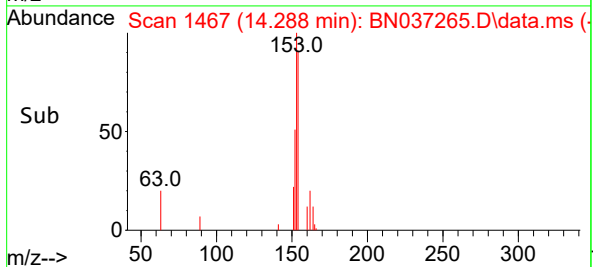
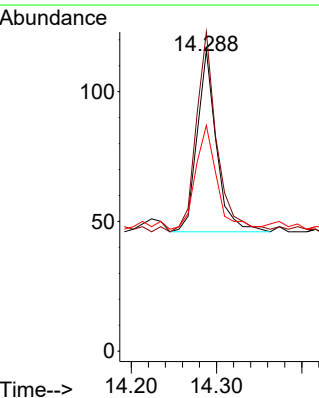
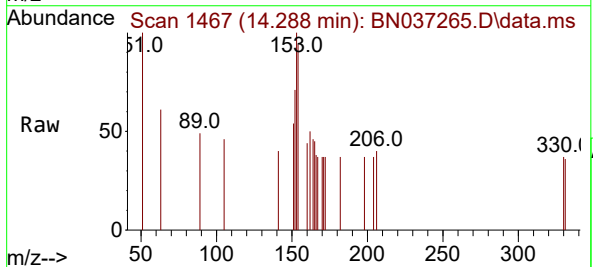
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

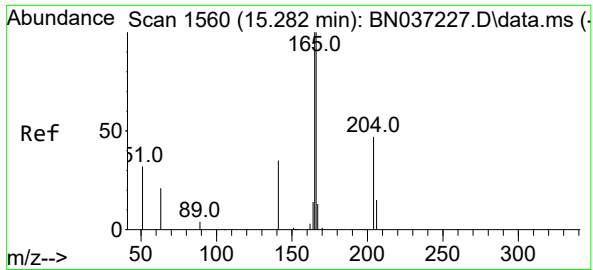
Tgt Ion:	152	Resp:	155
Ion Ratio	Lower	Upper	
152	100		
151	23.2	15.7	23.5
153	14.8	10.7	16.1



#17
Acenaphthene
Concen: 0.023 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:	154	Resp:	110
Ion Ratio	Lower	Upper	
154	100		
153	118.2	94.6	141.8
152	62.7	49.6	74.4

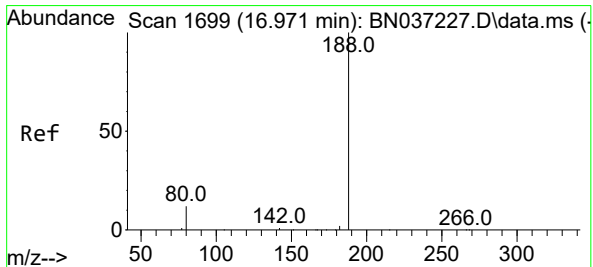
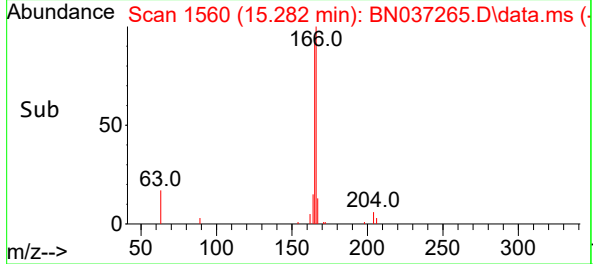
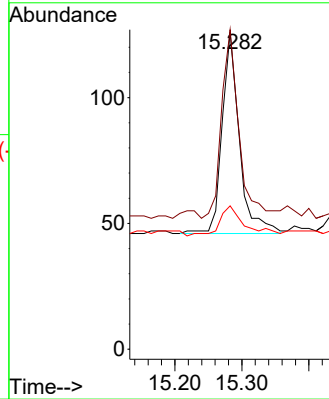
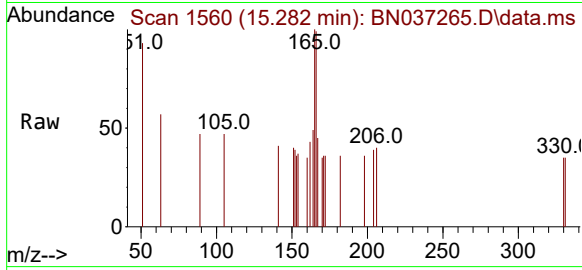




#18
Fluorene
Concen: 0.023 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

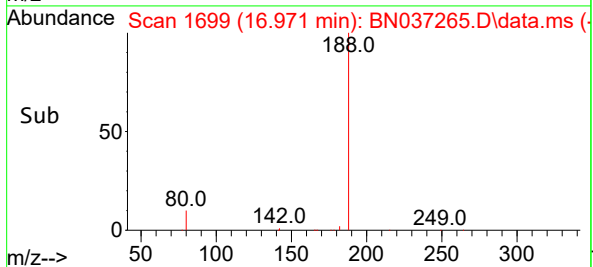
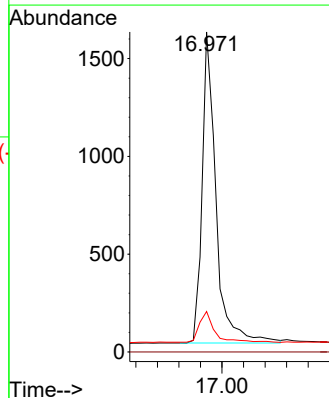
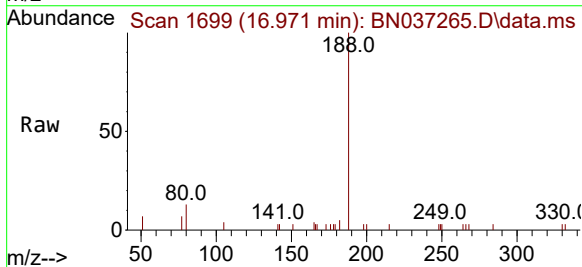
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

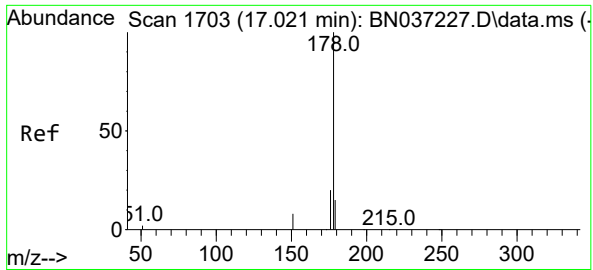
Tgt Ion	Resp	Lower	Upper
166	100		
165	93.8	79.8	119.6
167	16.0	10.8	16.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion	Resp	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	12.2	18.4

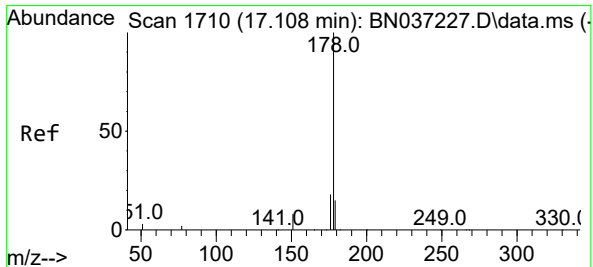
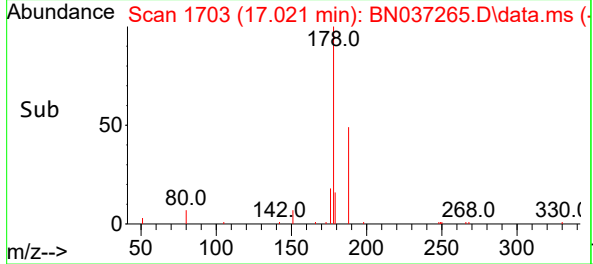
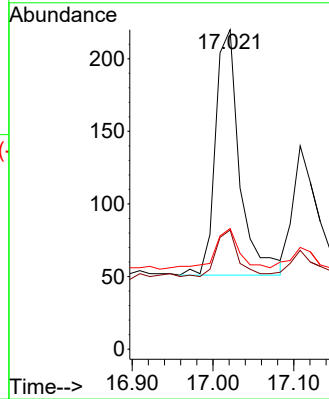
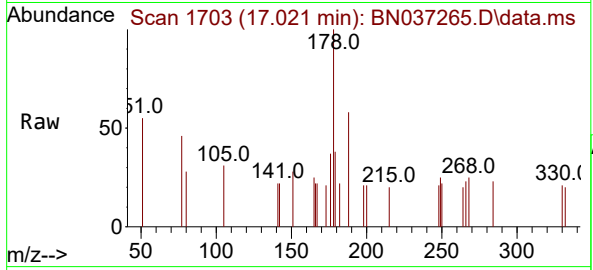




#25
Phenanthrene
Concen: 0.039 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

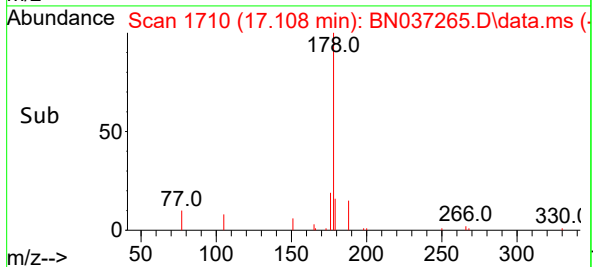
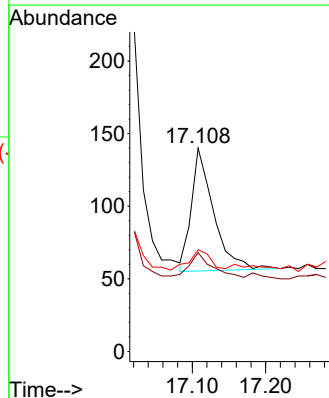
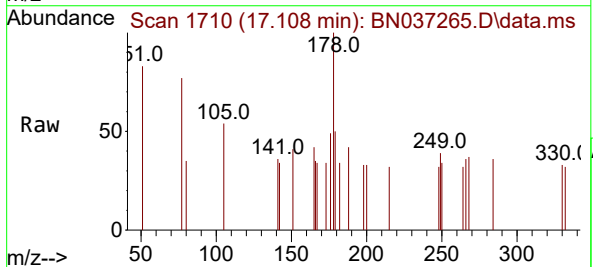
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

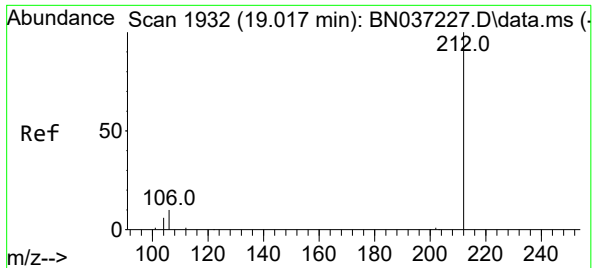
Tgt Ion:	178	Resp:	353
Ion	Ratio	Lower	Upper
178	100		
176	17.0	16.3	24.5
179	17.0	12.6	18.8



#26
Anthracene
Concen: 0.022 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:	178	Resp:	178
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.1	22.7
179	15.7	12.4	18.6





#27

Fluoranthene-d10

Concen: 0.408 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.004 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

Instrument :

BNA_N

ClientSampleId :

TT190D1-20250611

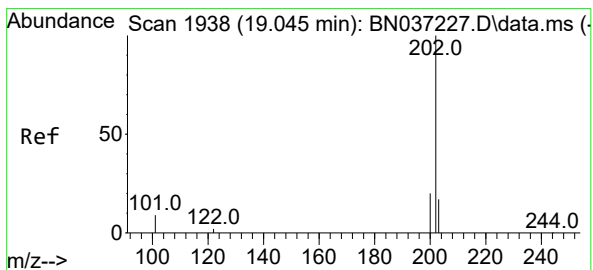
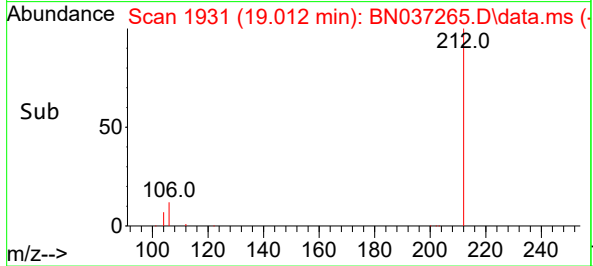
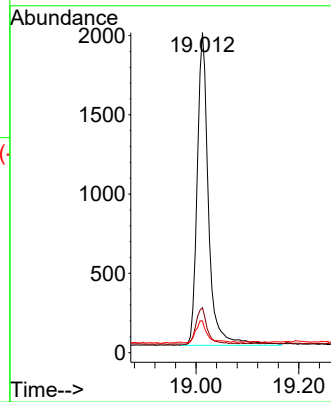
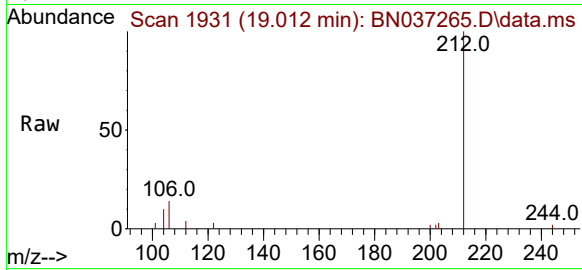
Tgt Ion:212 Resp: 3030

Ion Ratio Lower Upper

212 100

106 11.9 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 0.037 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.004 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

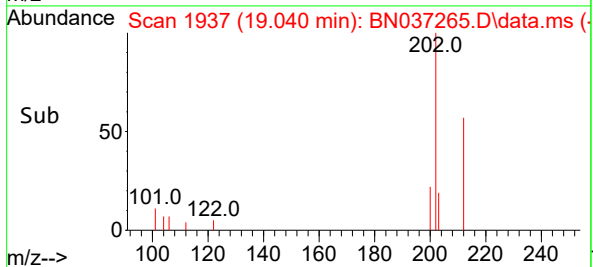
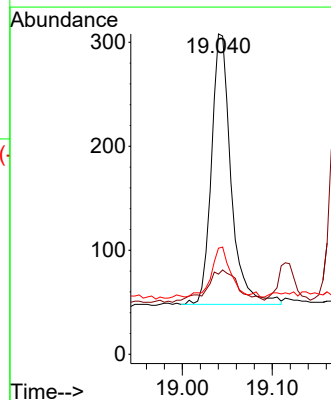
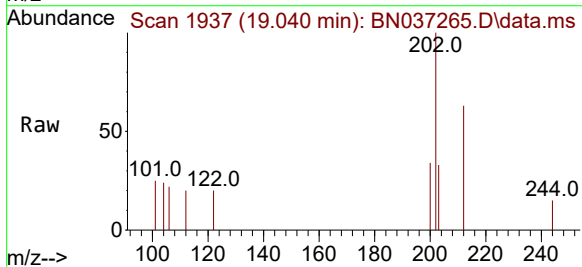
Tgt Ion:202 Resp: 393

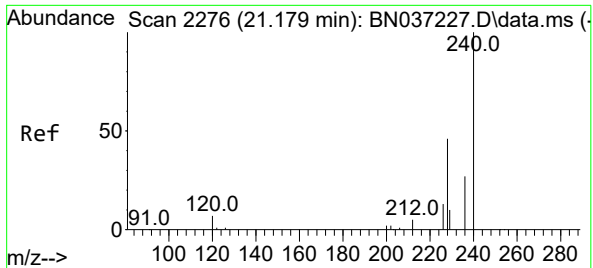
Ion Ratio Lower Upper

202 100

101 19.3 7.1 10.7#

203 18.3 13.0 19.6

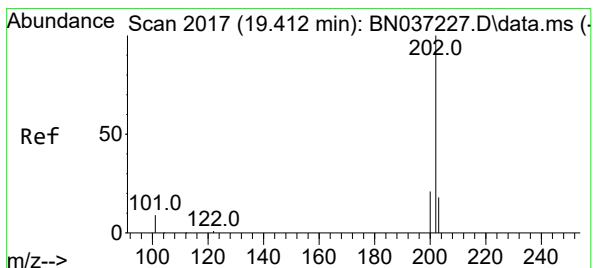
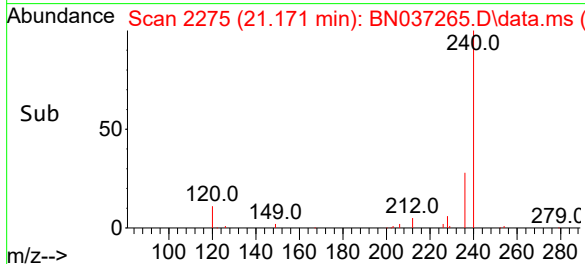
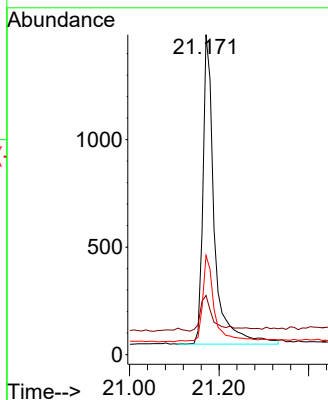
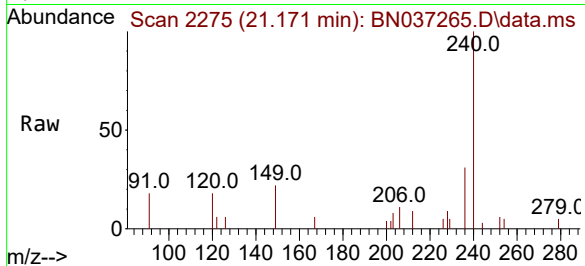




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

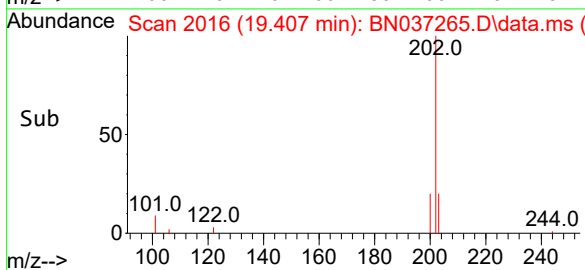
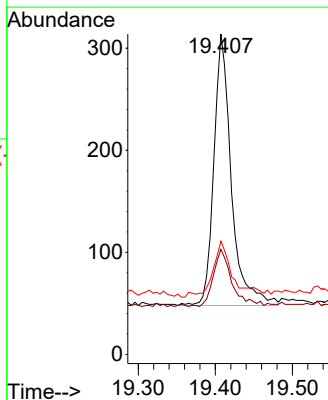
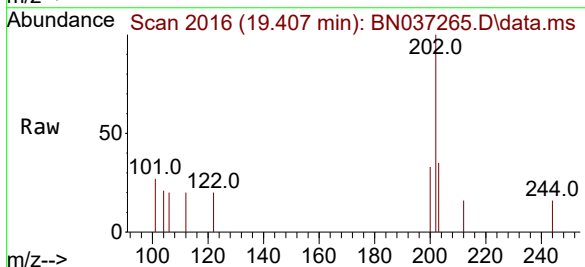
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

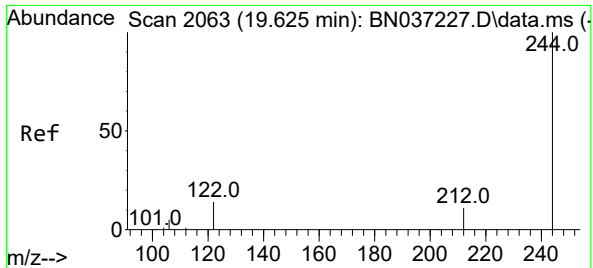
Tgt Ion:240 Resp: 2558
Ion Ratio Lower Upper
240 100
120 18.5 11.3 16.9#
236 31.0 24.4 36.6



#30
Pyrene
Concen: 0.035 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:202 Resp: 420
Ion Ratio Lower Upper
202 100
200 22.4 17.2 25.8
203 17.4 14.3 21.5

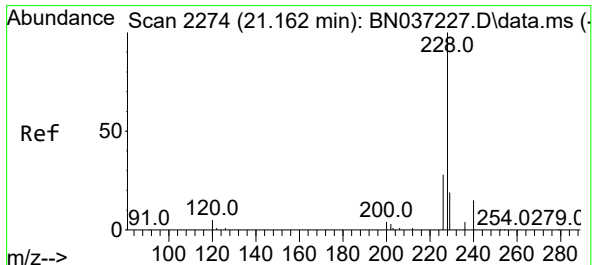
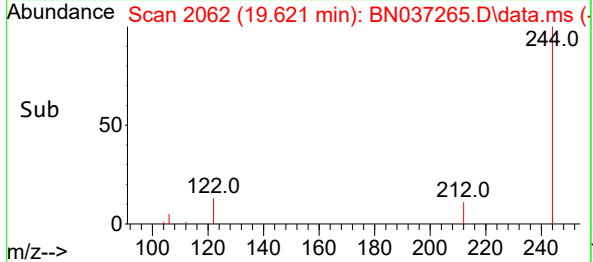
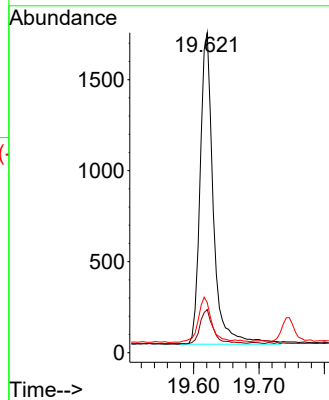
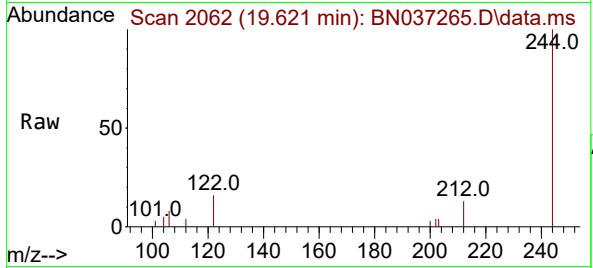




#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

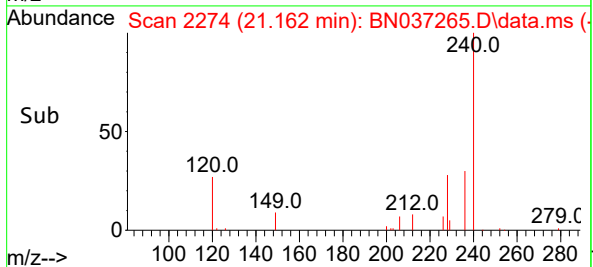
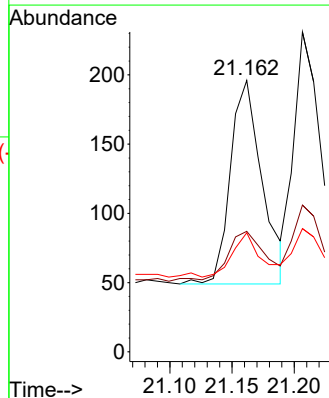
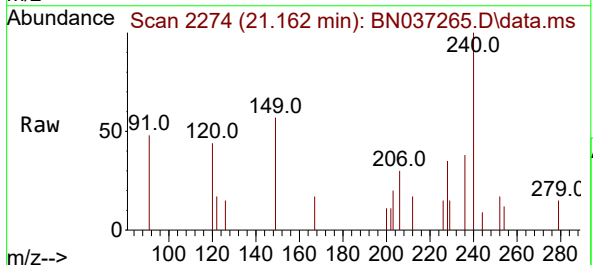
Instrument :
BNA_N
ClientSampleId :
TT190D1-20250611

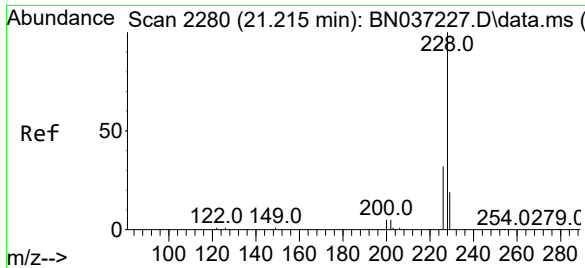
Tgt Ion:244 Resp: 2397
Ion Ratio Lower Upper
244 100
212 13.5 12.2 18.2
122 15.6 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.030 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037265.D
Acq: 14 Jun 2025 17:00

Tgt Ion:228 Resp: 261
Ion Ratio Lower Upper
228 100
226 44.4 23.8 35.8#
229 43.9 17.0 25.4#





#33

Chrysene

Concen: 0.026 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

Instrument :

BNA_N

ClientSampleId :

TT190D1-20250611

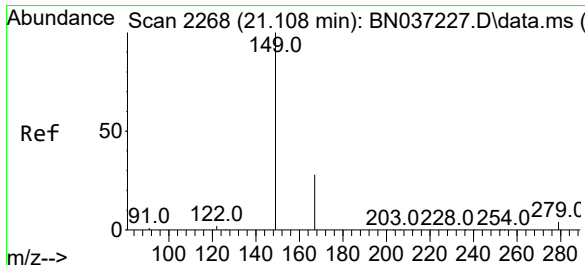
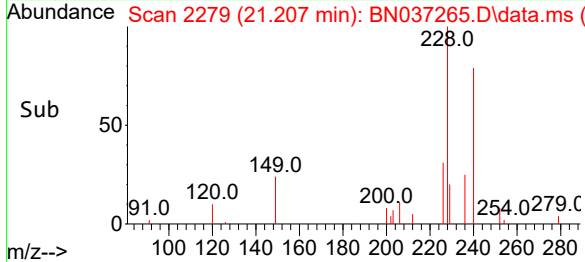
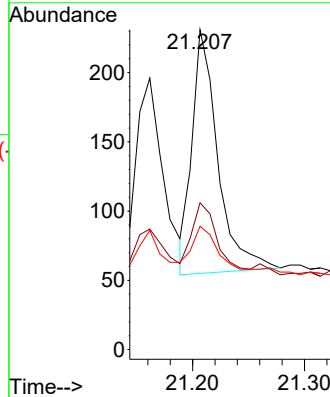
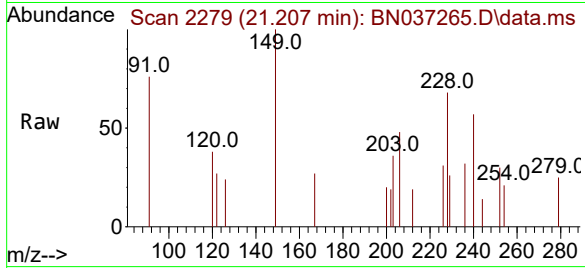
Tgt Ion:228 Resp: 281

Ion Ratio Lower Upper

228 100

226 45.9 25.8 38.6#

229 38.5 17.0 25.4#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.067 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

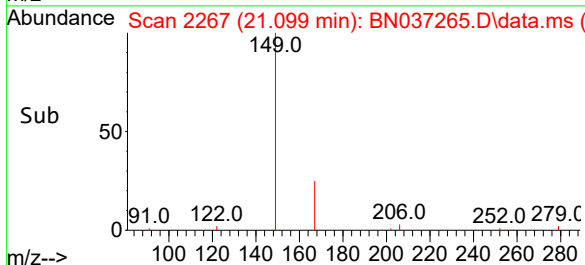
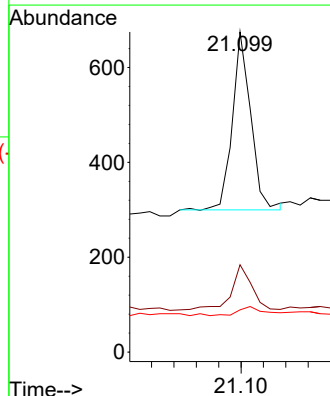
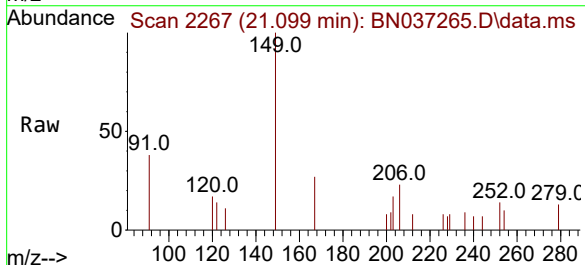
Tgt Ion:149 Resp: 429

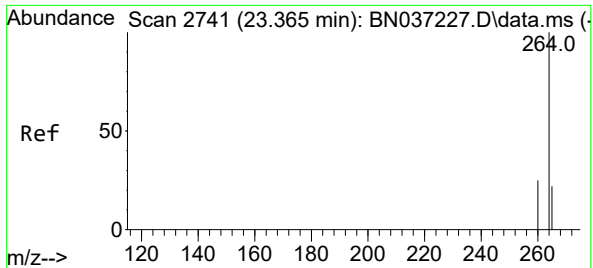
Ion Ratio Lower Upper

149 100

167 27.5 21.3 31.9

279 7.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037265.D

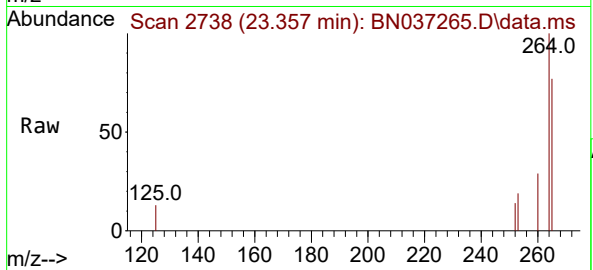
Acq: 14 Jun 2025 17:00

Instrument :

BNA_N

ClientSampleId :

TT190D1-20250611



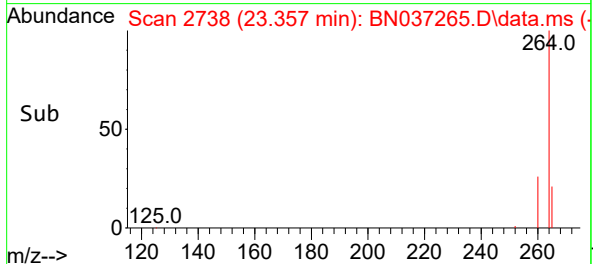
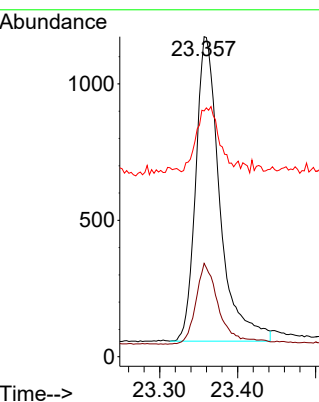
Tgt Ion:264 Resp: 2398

Ion	Ratio	Lower	Upper

264	100		

260	29.2	22.8	34.2

265	76.8	66.4	99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW11-MW011-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-19	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
BN037266.D	1	06/13/25 08:03	06/14/25 17:36	PB168458

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		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1330	7.575				
1146-65-2	Naphthalene-d8	3320	10.351				
15067-26-2	Acenaphthene-d10	1700	14.224				
1517-22-2	Phenanthrene-d10	3110	16.971				
1719-03-5	Chrysene-d12	2630	21.171				
1520-96-3	Perylene-d12	2550	23.36				

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\BN061325\
 Data File : BN037266.D
 Acq On : 14 Jun 2025 17:36
 Operator : RC/JU
 Sample : Q2299-19
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01I-20250611

Quant Time: Jun 16 02:44:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

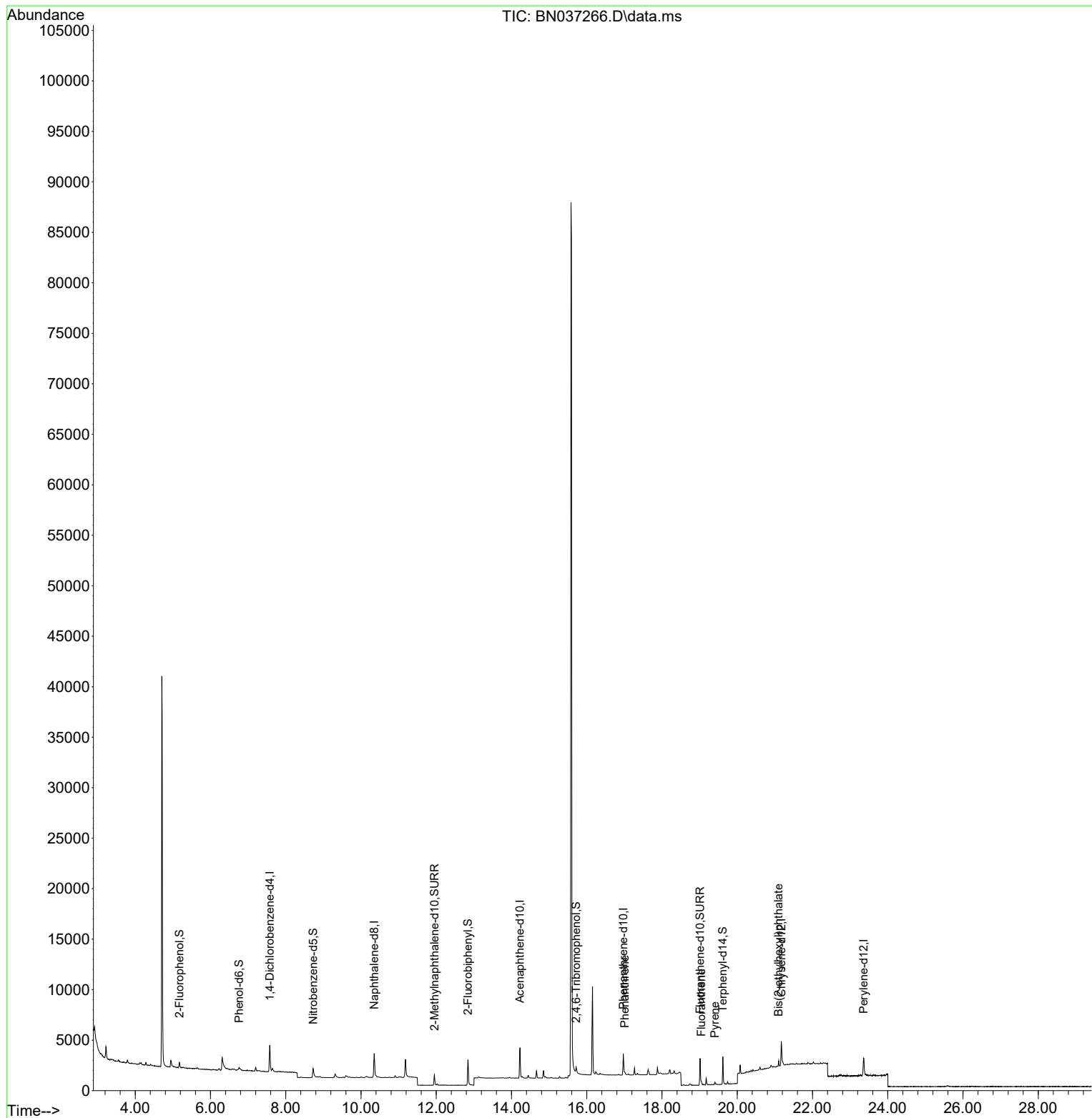
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1325	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3321	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1702	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3112	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2629	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	2551	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	420	0.129	ng	0.00
5) Phenol-d6	6.759	99	224	0.065	ng	0.00
8) Nitrobenzene-d5	8.728	82	1028	0.313	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1452	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	272	0.385	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2419	0.338	ng	0.00
27) Fluoranthene-d10	19.012	212	3260	0.400	ng	0.00
31) Terphenyl-d14	19.616	244	2758	0.464	ng	0.00
Target Compounds						
25) Phenanthrene	17.009	178	248	0.025	ng	# 92
28) Fluoranthene	19.040	202	251	0.022	ng	# 78
30) Pyrene	19.407	202	265	0.021	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	509	0.077	ng	# 95

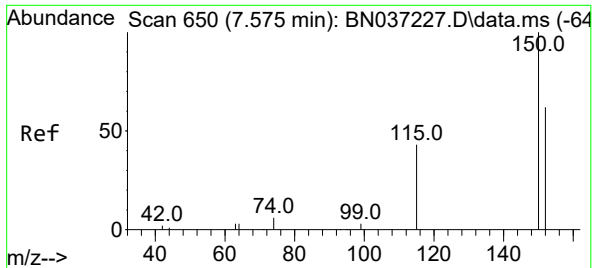
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037266.D
Acq On : 14 Jun 2025 17:36
Operator : RC/JU
Sample : Q2299-19
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

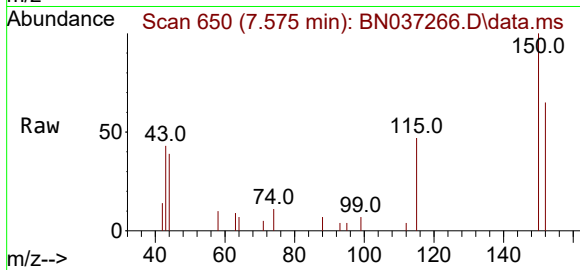
Quant Time: Jun 16 02:44:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



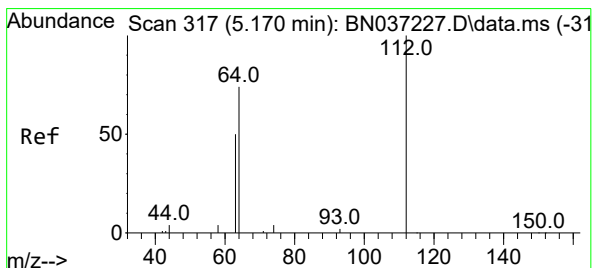
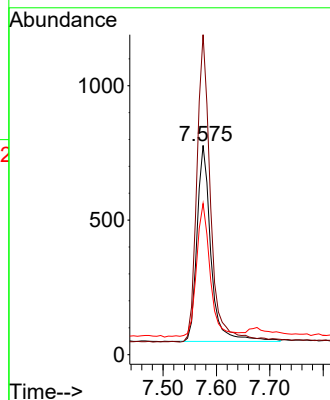
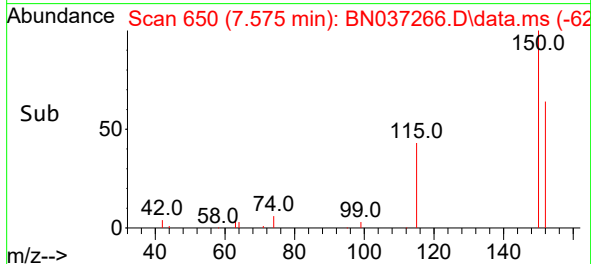


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

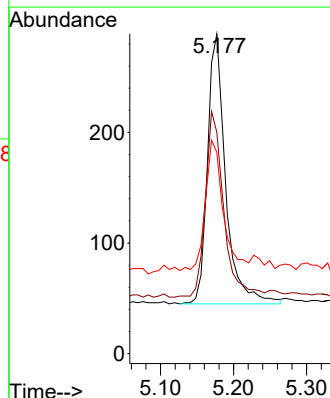
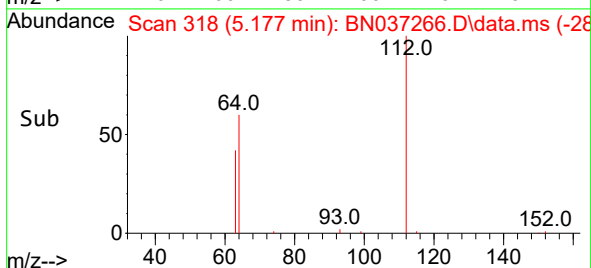
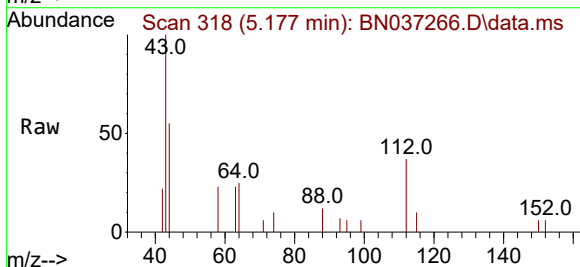


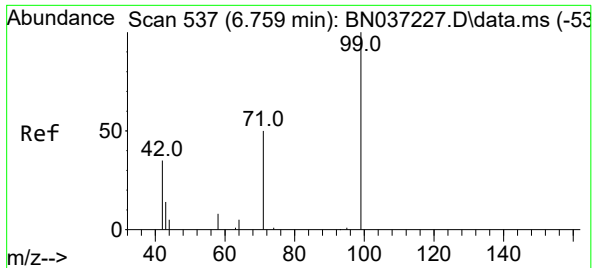
Tgt Ion:152 Resp: 1325
Ion Ratio Lower Upper
152 100
150 153.0 125.2 187.8
115 72.2 58.4 87.6



#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:112 Resp: 420
Ion Ratio Lower Upper
112 100
64 69.8 57.2 85.8
63 47.6 39.8 59.6

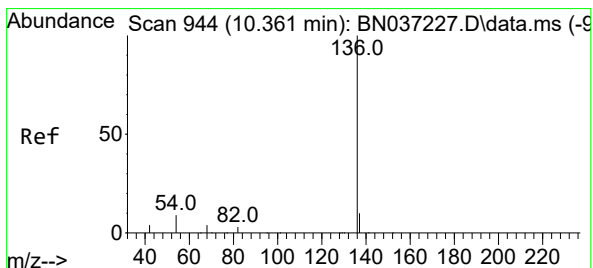
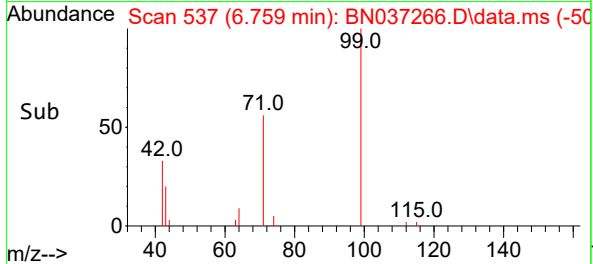
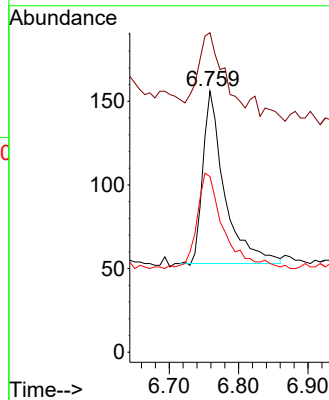
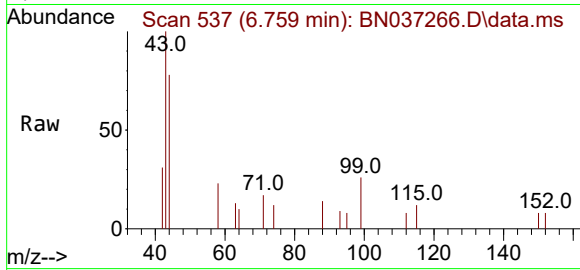




#5
Phenol-d6
Concen: 0.065 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

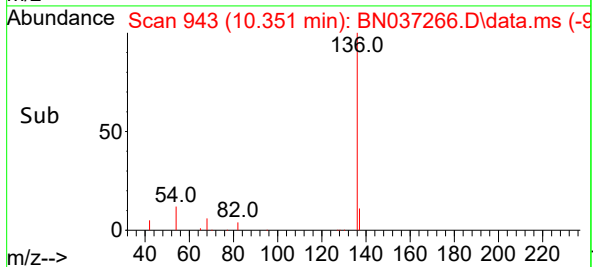
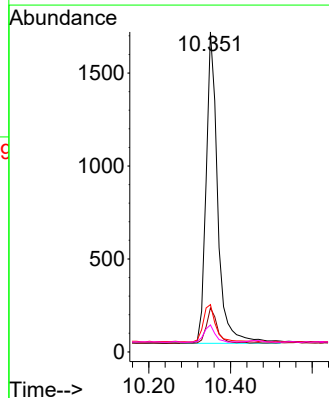
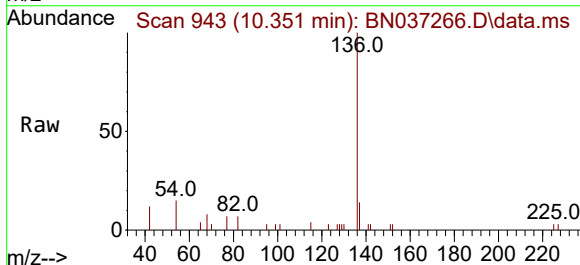
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

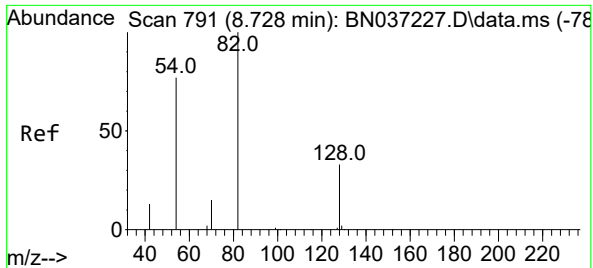
Tgt Ion:	99	Resp:	224
Ion	Ratio	Lower	Upper
99	100		
42	46.0	36.2	54.4
71	68.3	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:	136	Resp:	3321
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.6	15.8
54	14.8	9.2	13.8
68	8.4	5.4	8.0

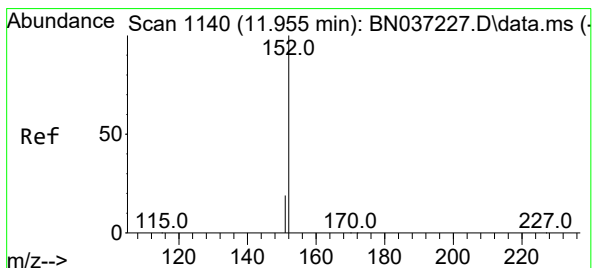
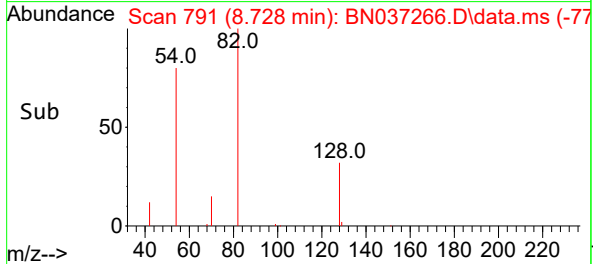
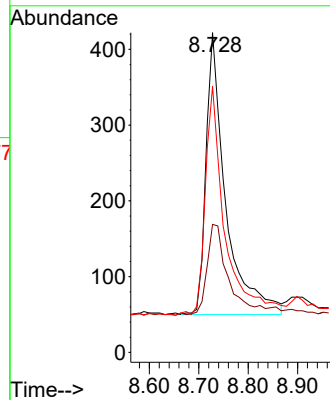
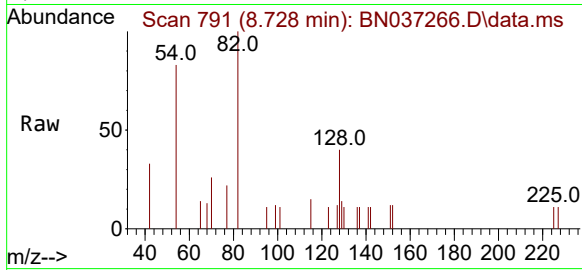




#8
Nitrobenzene-d5
Concen: 0.313 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

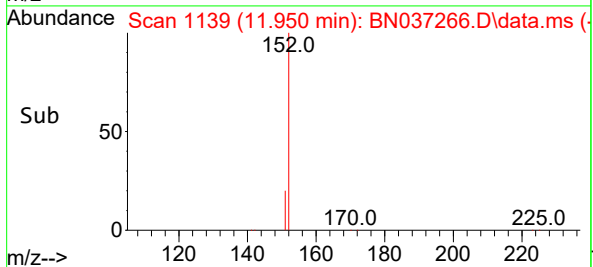
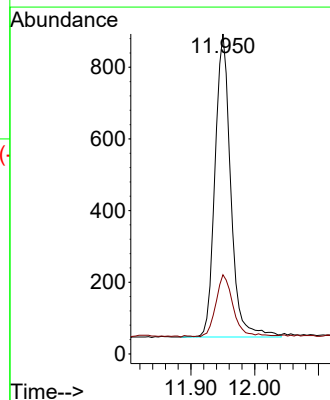
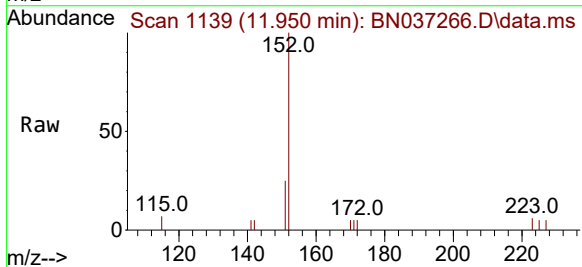
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

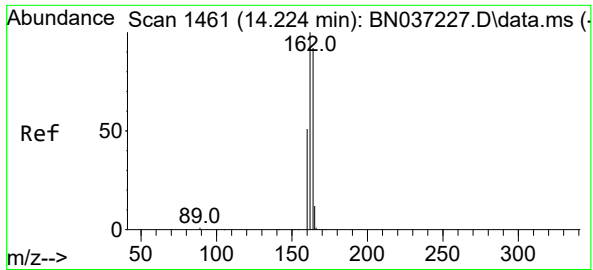
Tgt Ion: 82 Resp: 1028
Ion Ratio Lower Upper
82 100
128 40.0 31.2 46.8
54 83.2 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion: 152 Resp: 1452
Ion Ratio Lower Upper
152 100
151 22.5 17.9 26.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037266.D

Acq: 14 Jun 2025 17:36

Instrument :

BNA_N

ClientSampleId :

RW11-MW01I-20250611

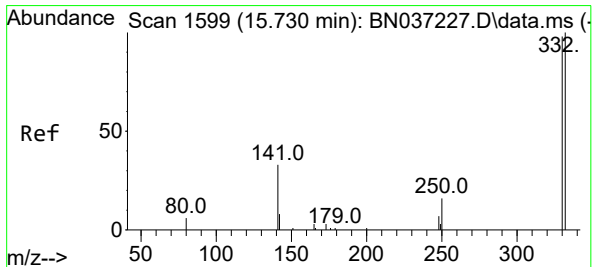
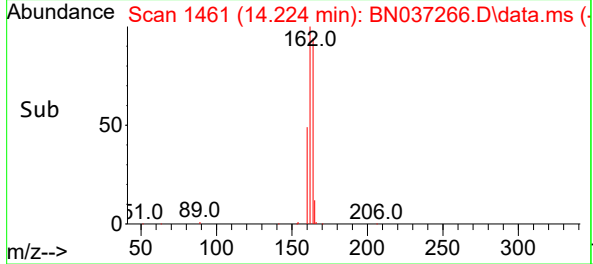
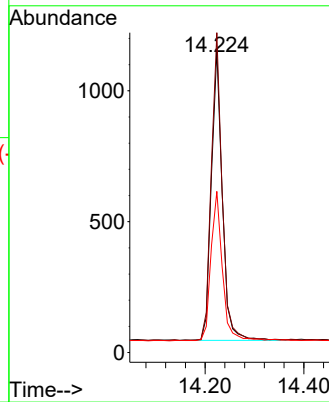
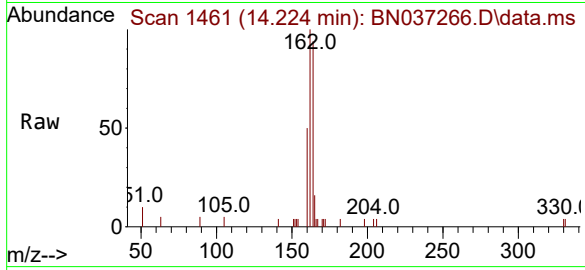
Tgt Ion:164 Resp: 1702

Ion Ratio Lower Upper

164 100

162 105.9 86.7 130.1

160 53.4 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.385 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037266.D

Acq: 14 Jun 2025 17:36

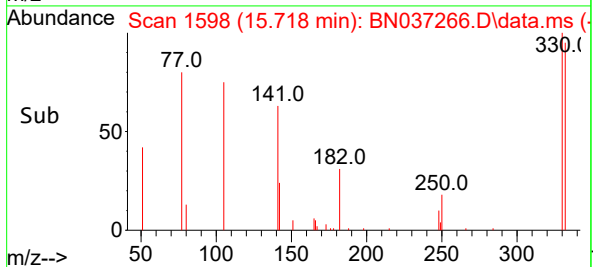
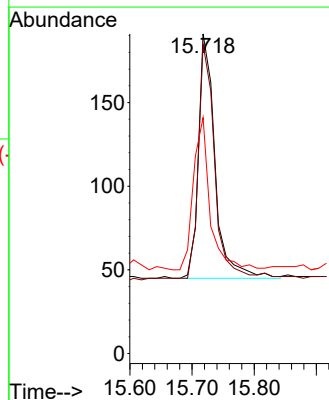
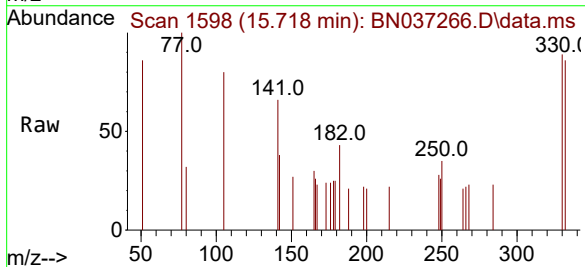
Tgt Ion:330 Resp: 272

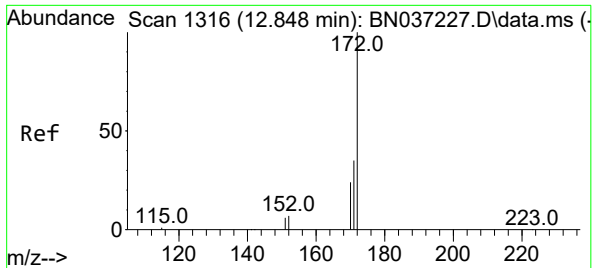
Ion Ratio Lower Upper

330 100

332 94.1 74.9 112.3

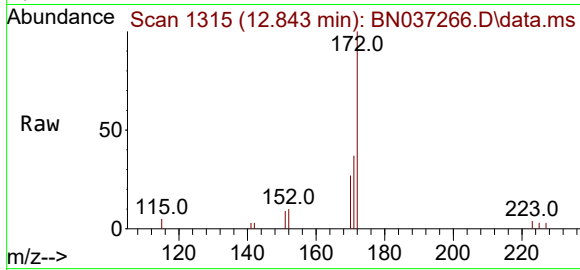
141 62.5 45.1 67.7



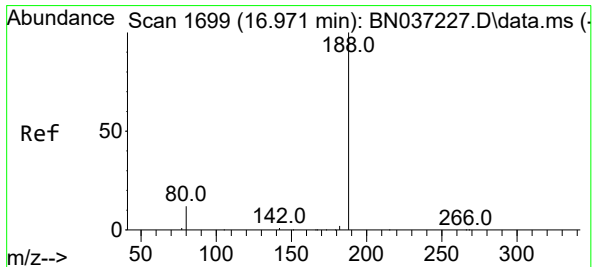
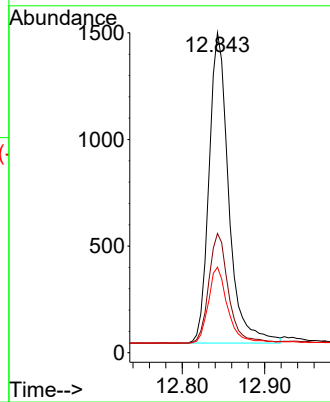
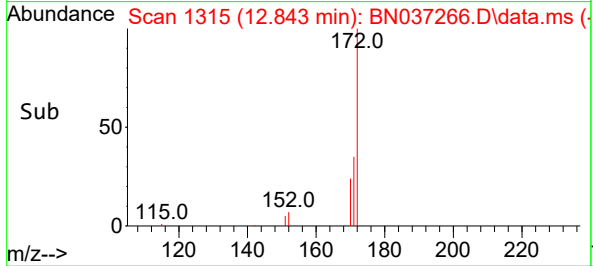


#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 12.843 min Scan# 1316
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

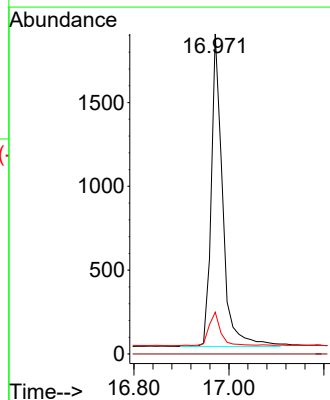
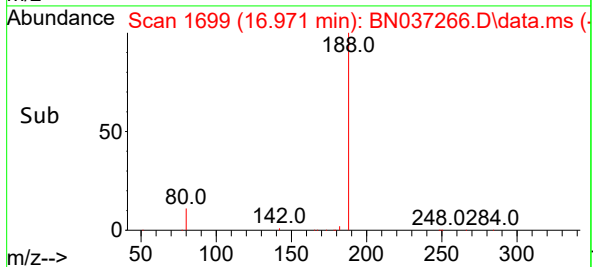
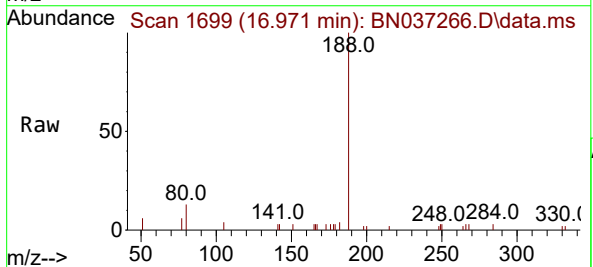


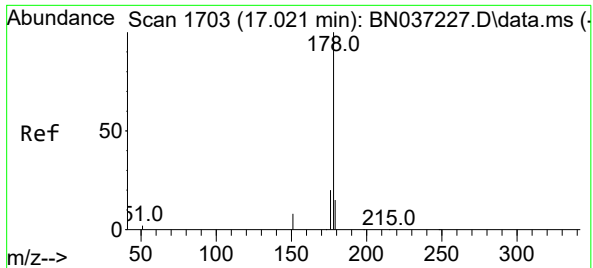
Tgt Ion:172 Resp: 2419
Ion Ratio Lower Upper
172 100
171 37.2 29.8 44.8
170 26.7 21.1 31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:188 Resp: 3112
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.0 12.2 18.4

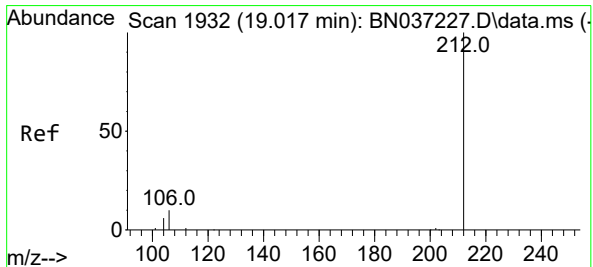
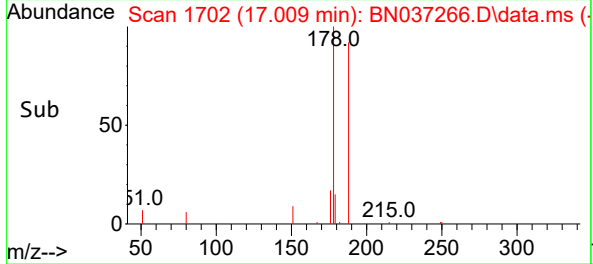
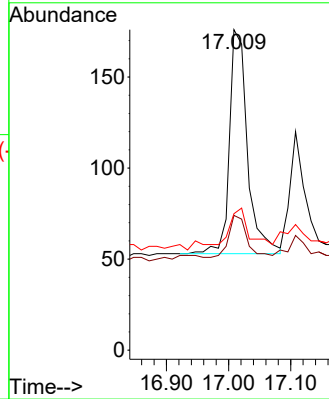
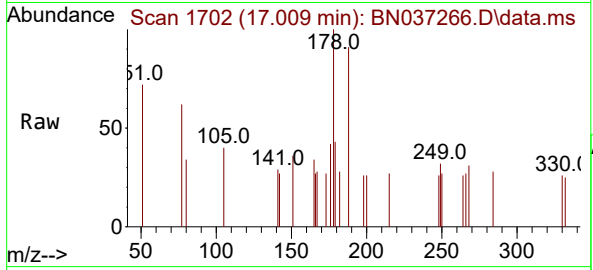




#25
Phenanthrene
Concen: 0.025 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

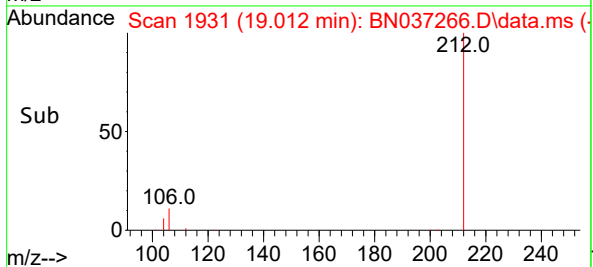
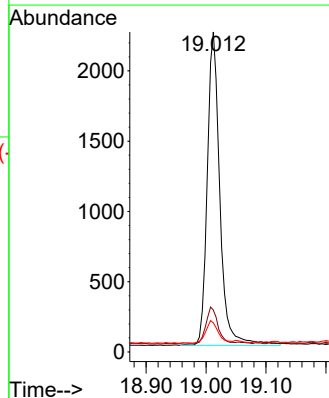
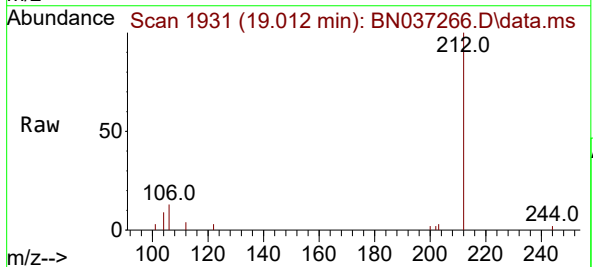
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

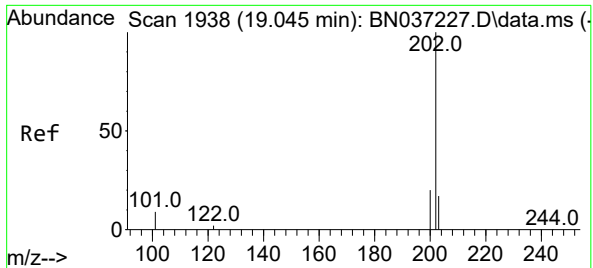
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	23.0	12.6	18.8



#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.3	13.9
104	6.9	5.7	8.5

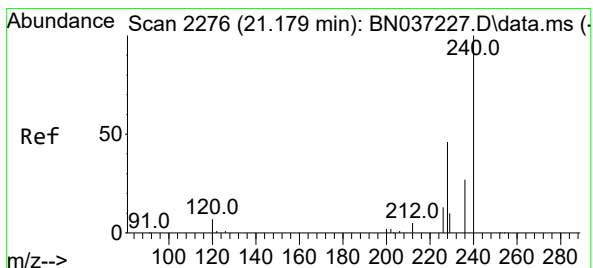
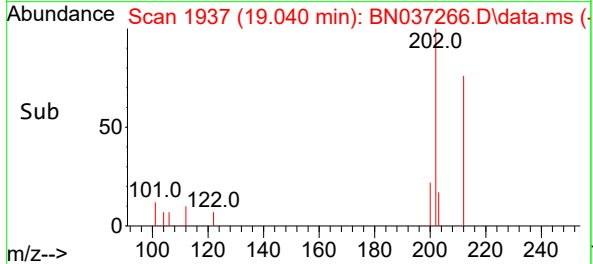
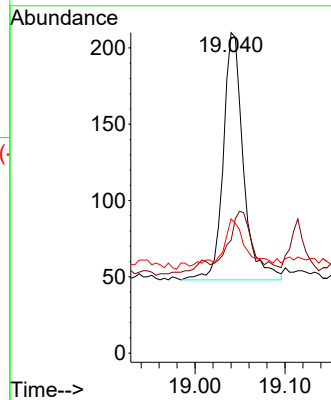
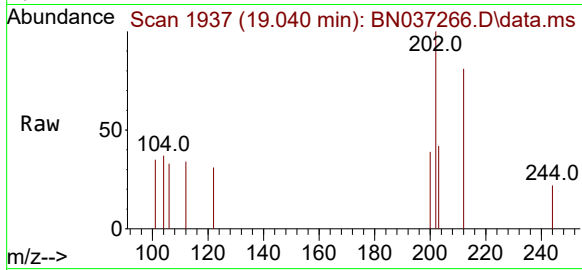




#28
Fluoranthene
Concen: 0.022 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

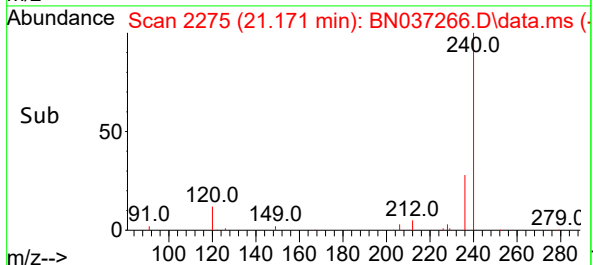
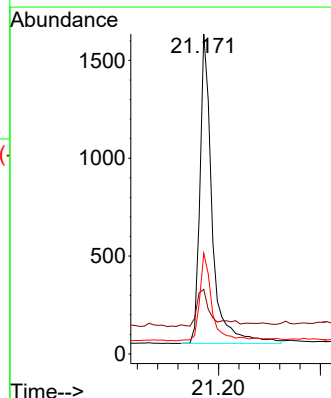
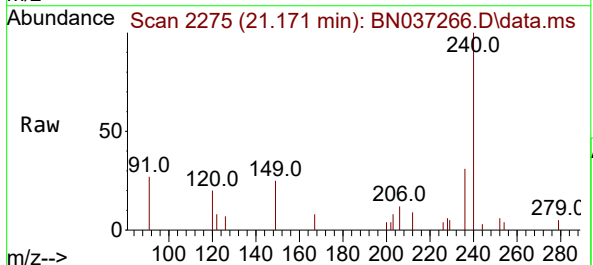
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

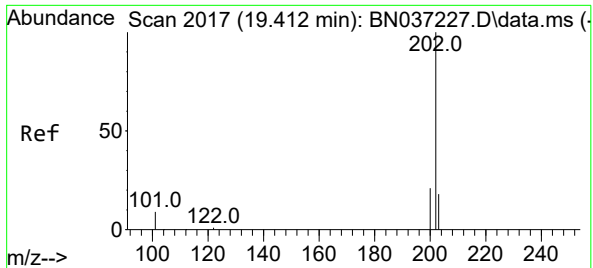
Tgt Ion:202 Resp: 251
Ion Ratio Lower Upper
202 100
101 24.3 7.1 10.7#
203 20.7 13.0 19.6#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:240 Resp: 2629
Ion Ratio Lower Upper
240 100
120 20.2 11.3 16.9#
236 31.4 24.4 36.6

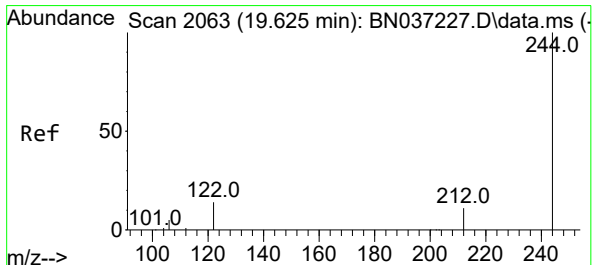
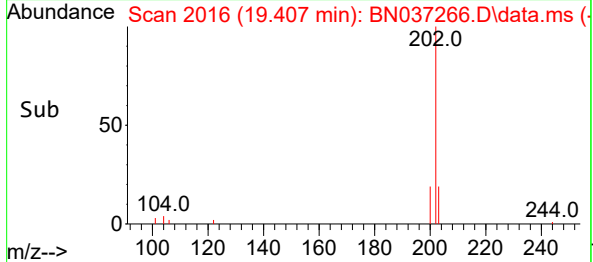
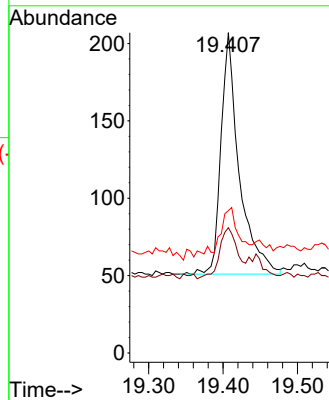
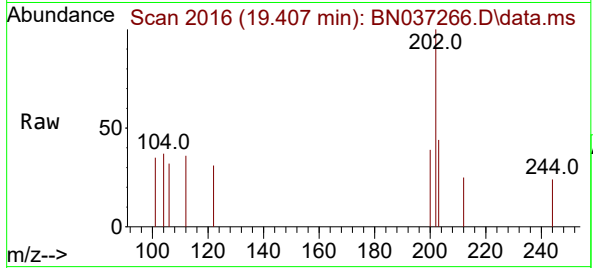




#30
Pyrene
Concen: 0.021 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

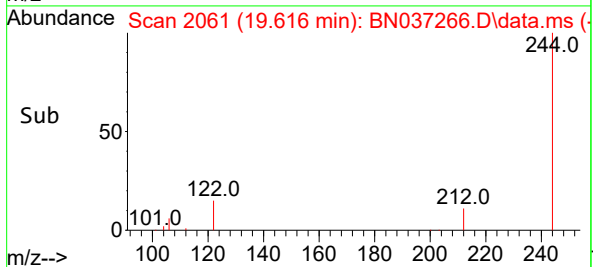
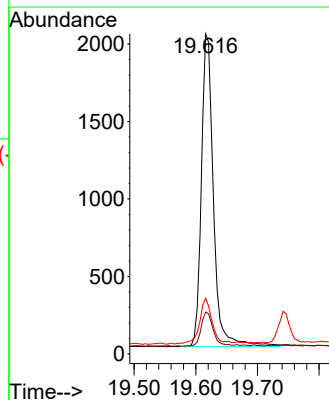
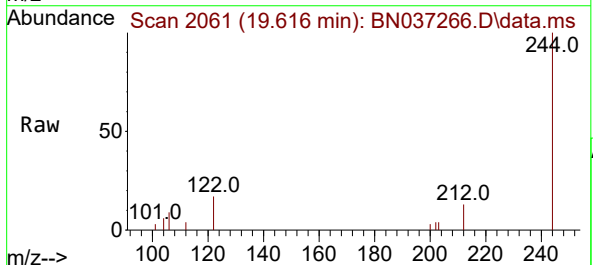
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

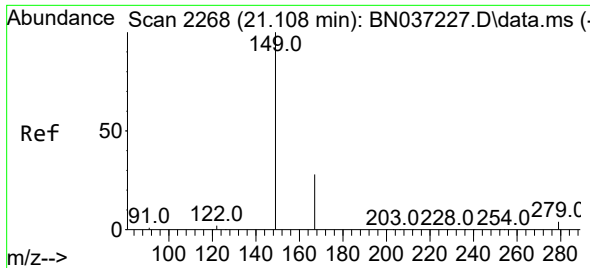
Tgt Ion:	202	Resp:	265
Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.2	25.8
203	21.1	14.3	21.5



#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:	244	Resp:	2758
Ion	Ratio	Lower	Upper
244	100		
212	13.1	12.2	18.2
122	17.4	14.3	21.5

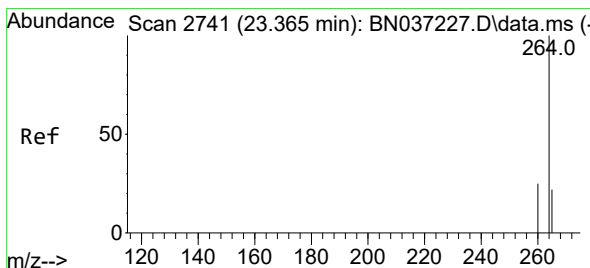
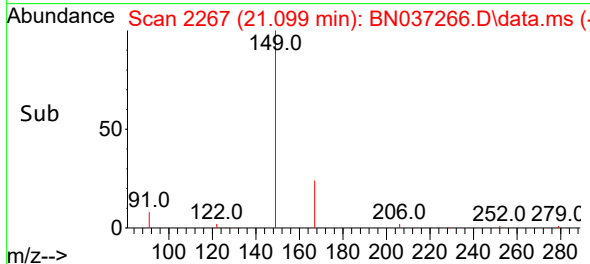
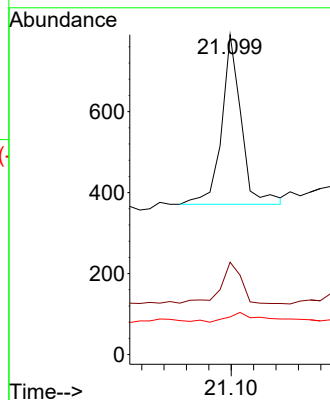
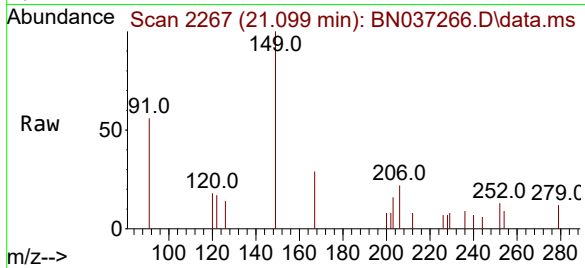




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

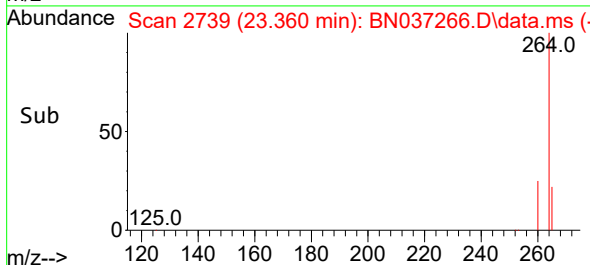
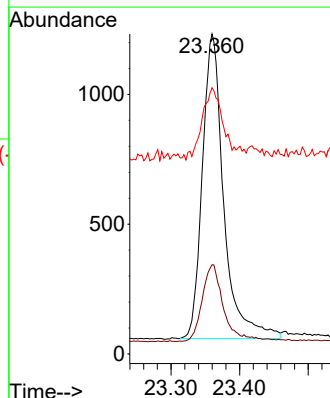
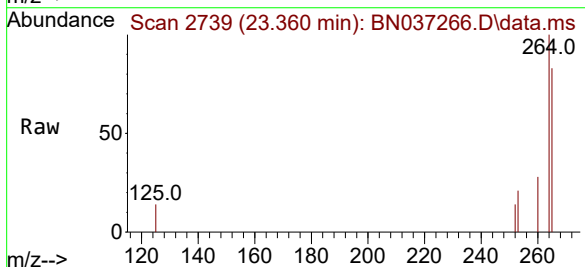
Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250611

Tgt Ion:149 Resp: 509
Ion Ratio Lower Upper
149 100
167 25.0 21.3 31.9
279 10.4 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037266.D
Acq: 14 Jun 2025 17:36

Tgt Ion:264 Resp: 2551
Ion Ratio Lower Upper
264 100
260 27.9 22.8 34.2
265 83.2 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RW11-MW01S-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-20	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
BN037267.D	1	06/13/25 08:03	06/14/25 18:12	PB168458

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	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1400	7.575				
1146-65-2	Naphthalene-d8	3630	10.351				
15067-26-2	Acenaphthene-d10	1890	14.224				
1517-22-2	Phenanthrene-d10	3450	16.971				
1719-03-5	Chrysene-d12	2450	21.171				
1520-96-3	Perylene-d12	2250	23.363				

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\BN061325\
 Data File : BN037267.D
 Acq On : 14 Jun 2025 18:12
 Operator : RC/JU
 Sample : Q2299-20
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20250611

Quant Time: Jun 16 02:44:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

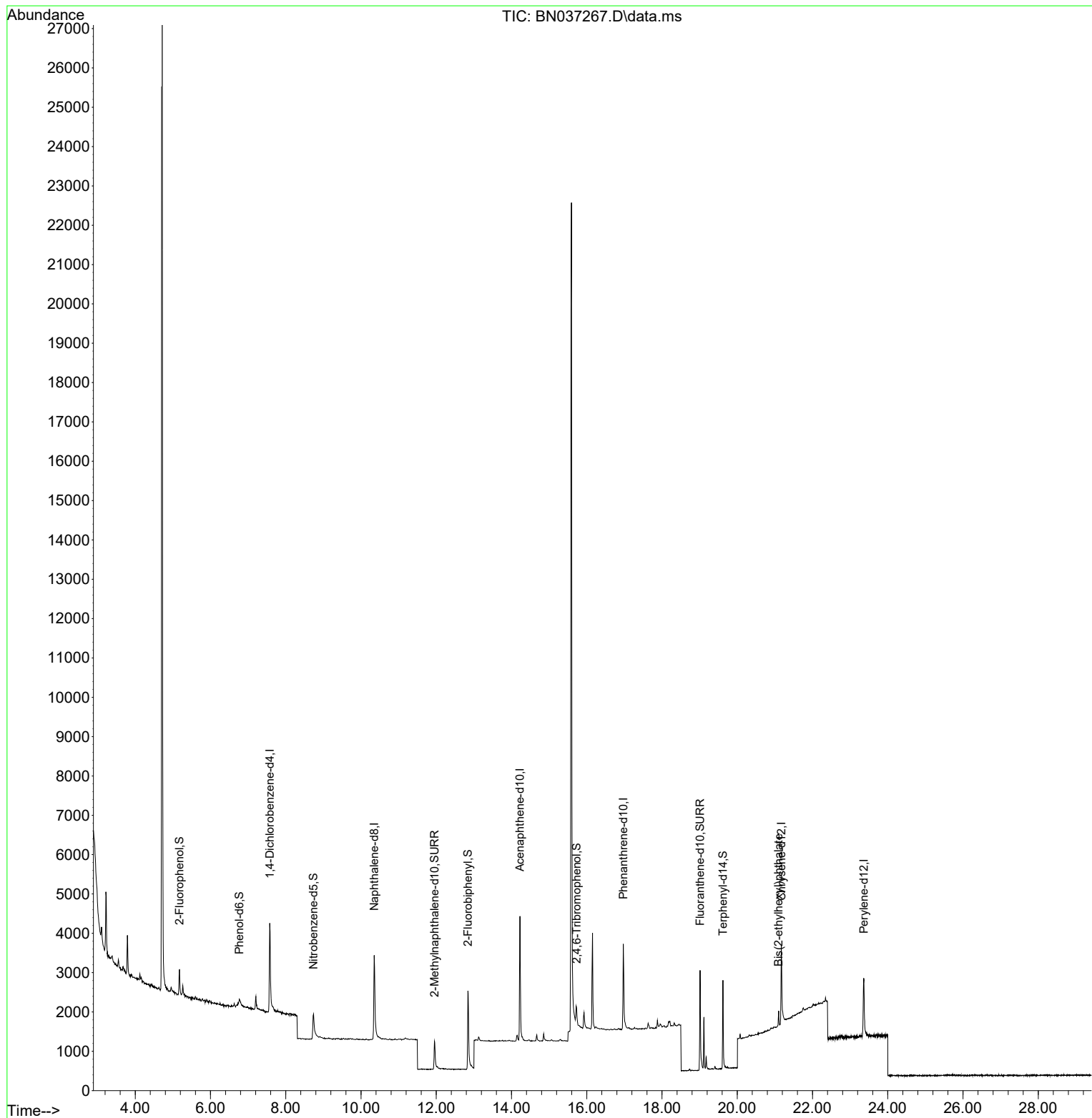
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1398	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3634	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1888	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3453	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2450	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	2246	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	499	0.145	ng	0.00
5) Phenol-d6	6.766	99	263	0.073	ng	0.00
8) Nitrobenzene-d5	8.739	82	940	0.262	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1415	0.290	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	275	0.351	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	2301	0.290	ng	0.00
27) Fluoranthene-d10	19.012	212	3338	0.369	ng	0.00
31) Terphenyl-d14	19.621	244	2490	0.450	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	357	0.058	ng	# 93

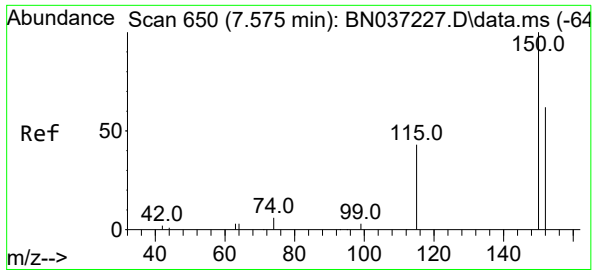
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037267.D
Acq On : 14 Jun 2025 18:12
Operator : RC/JU
Sample : Q2299-20
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

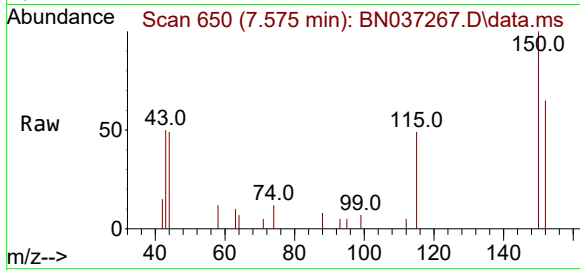
Quant Time: Jun 16 02:44:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



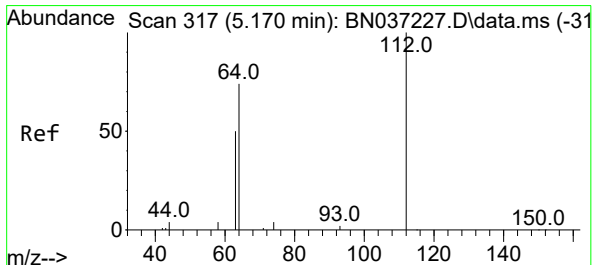
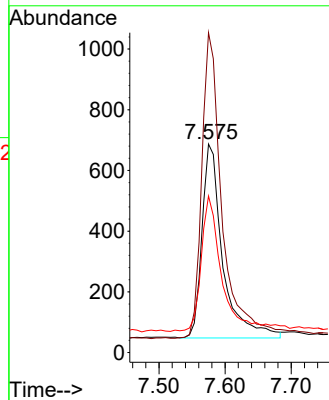
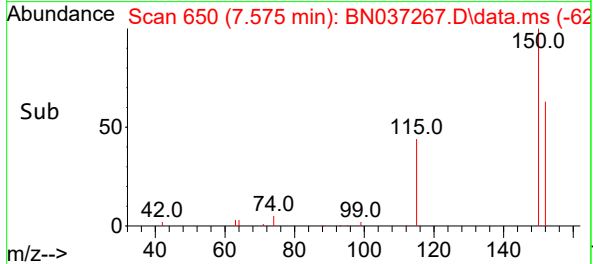


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

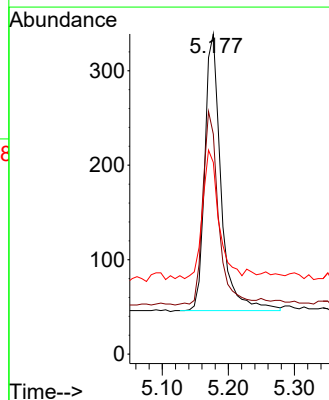
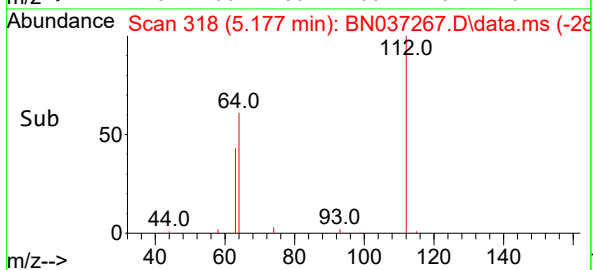
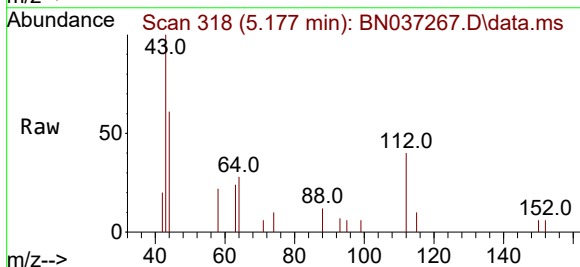


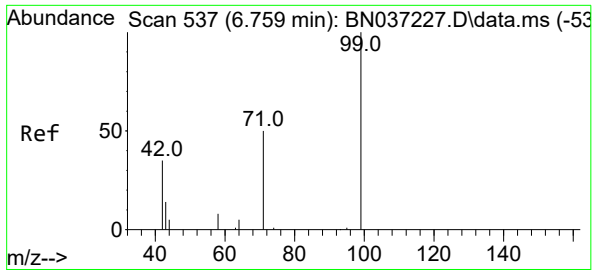
Tgt Ion:152 Resp: 1398
Ion Ratio Lower Upper
152 100
150 153.4 125.2 187.8
115 75.1 58.4 87.6



#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion:112 Resp: 499
Ion Ratio Lower Upper
112 100
64 67.7 57.2 85.8
63 46.7 39.8 59.6

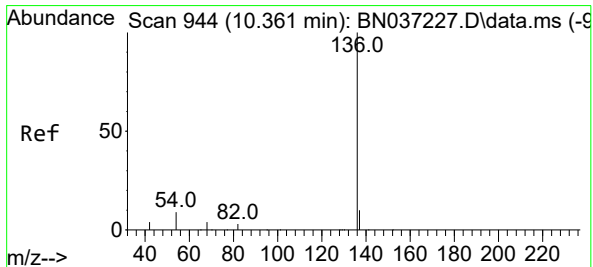
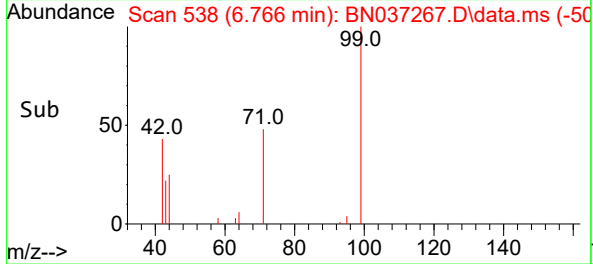
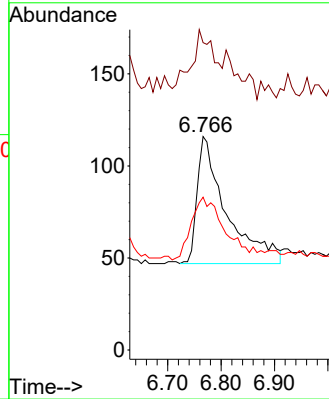
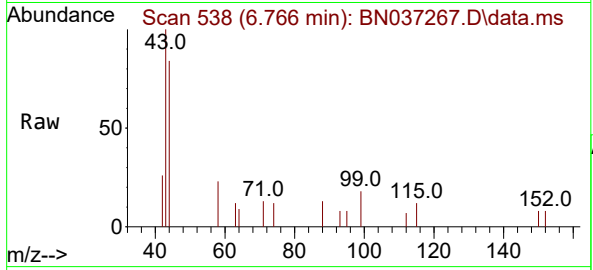




#5
Phenol-d6
Concen: 0.073 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

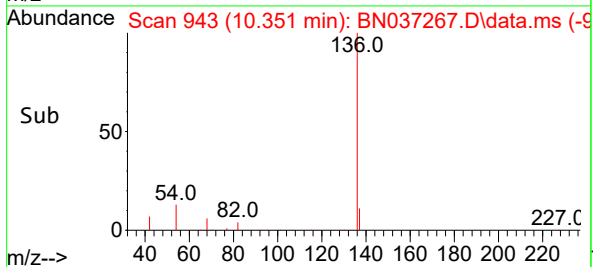
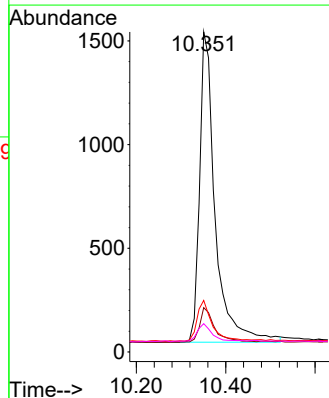
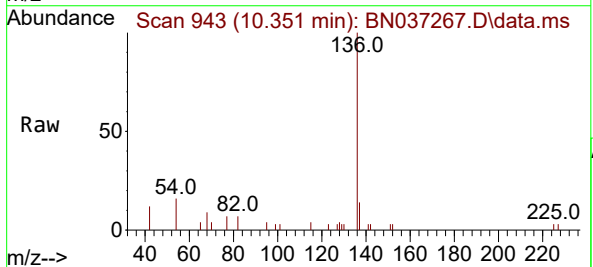
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

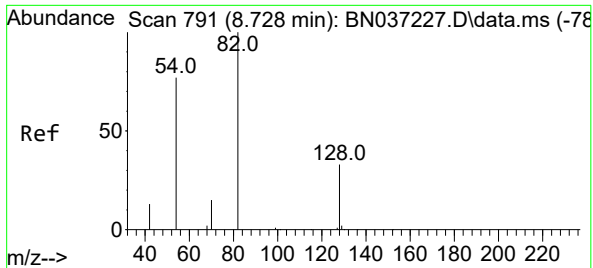
Tgt Ion: 99 Resp: 263
Ion Ratio Lower Upper
99 100
42 33.5 36.2 54.4#
71 54.8 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion: 136 Resp: 3634
Ion Ratio Lower Upper
136 100
137 13.9 10.6 15.8
54 16.1 9.2 13.8#
68 8.9 5.4 8.0#

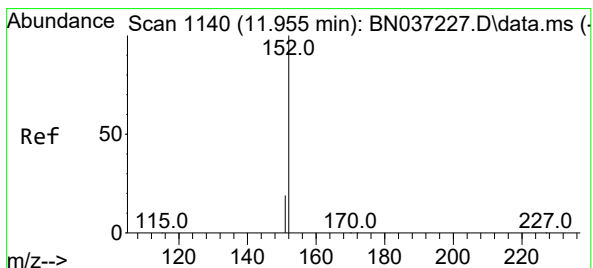
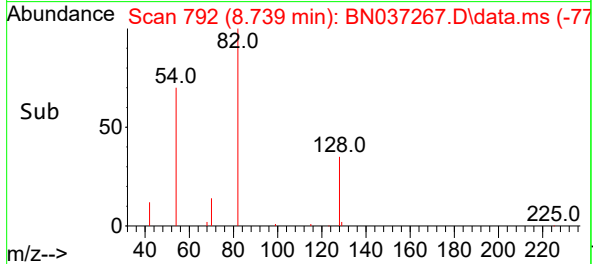
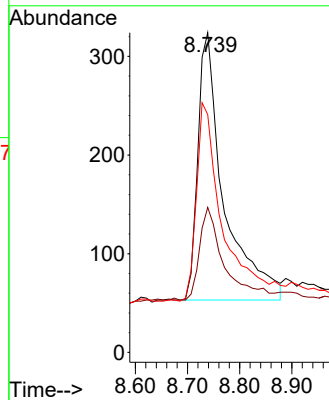
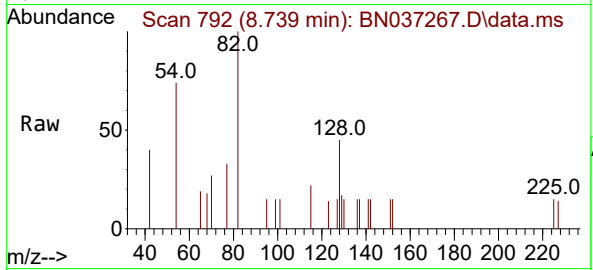




#8
Nitrobenzene-d5
Concen: 0.262 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

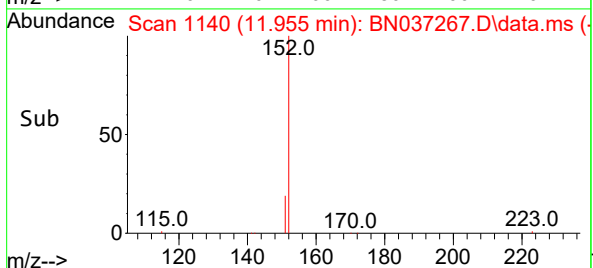
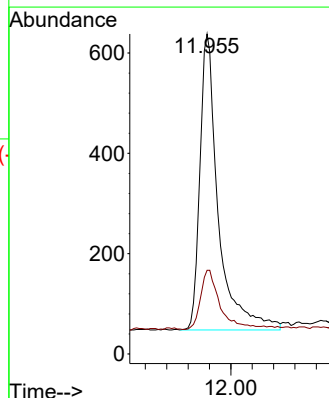
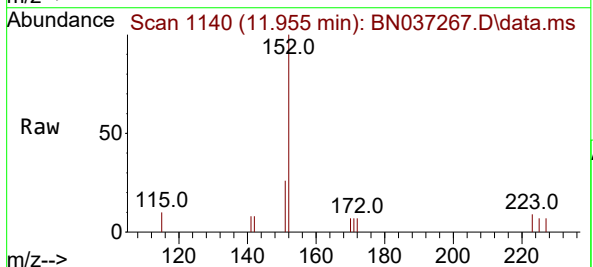
Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250611

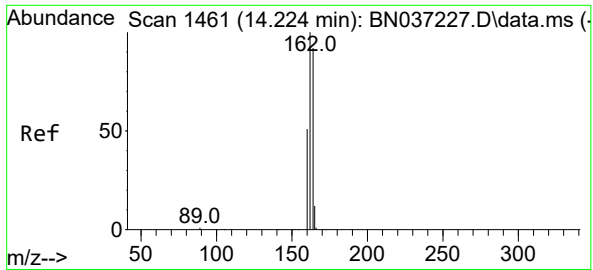
Tgt Ion: 82 Resp: 940
Ion Ratio Lower Upper
82 100
128 45.4 31.2 46.8
54 74.4 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037267.D
Acq: 14 Jun 2025 18:12

Tgt Ion: 152 Resp: 1415
Ion Ratio Lower Upper
152 100
151 21.1 17.9 26.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037267.D

Acq: 14 Jun 2025 18:12

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20250611

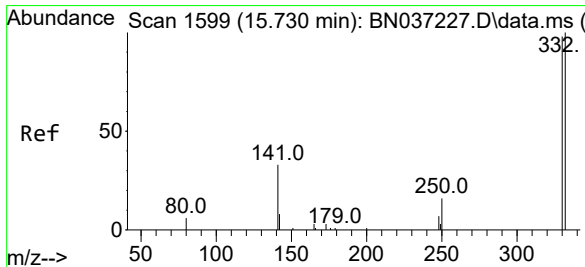
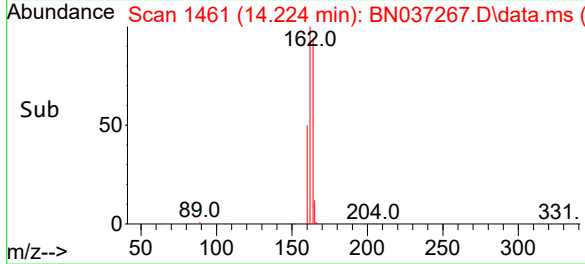
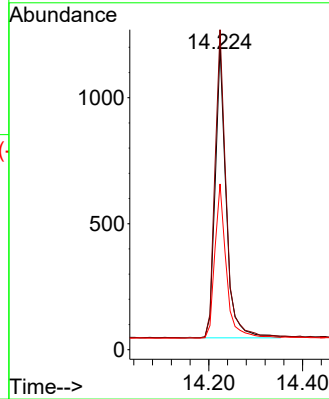
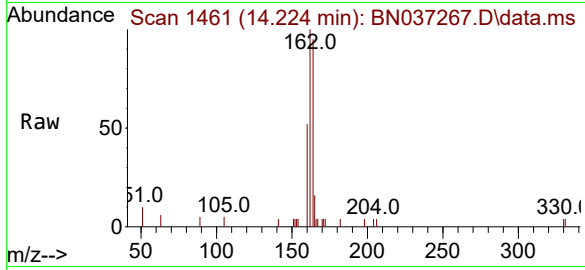
Tgt Ion:164 Resp: 1888

Ion	Ratio	Lower	Upper

164	100		

162	105.7	86.7	130.1

160	54.7	45.8	68.6



#14

2,4,6-Tribromophenol

Concen: 0.351 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037267.D

Acq: 14 Jun 2025 18:12

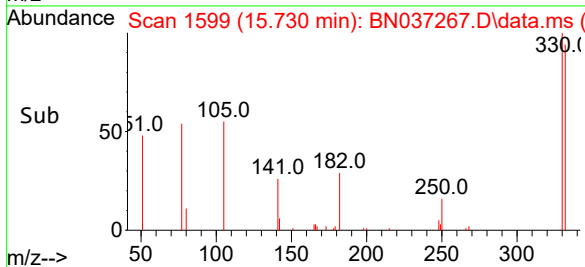
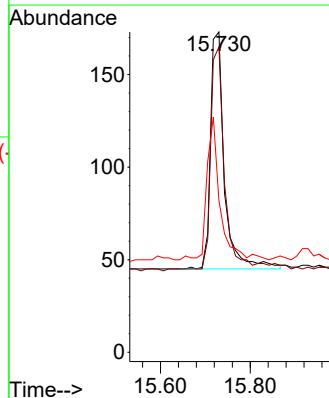
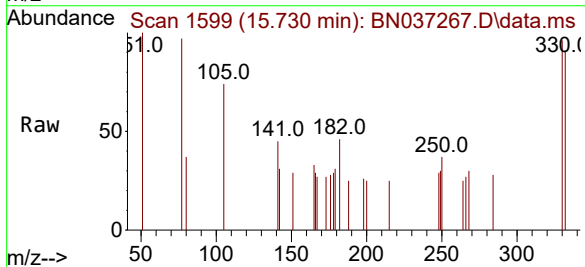
Tgt Ion:330 Resp: 275

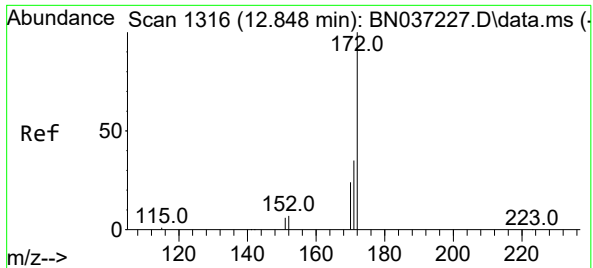
Ion	Ratio	Lower	Upper

330	100		

332	90.5	74.9	112.3

141	56.0	45.1	67.7





#15

2-Fluorobiphenyl

Concen: 0.290 ng

RT: 12.843 min Scan# 1315

Delta R.T. -0.005 min

Lab File: BN037267.D

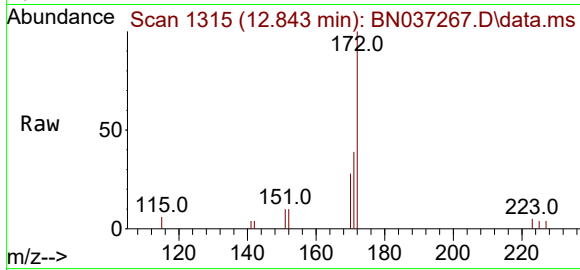
Acq: 14 Jun 2025 18:12

Instrument :

BNA_N

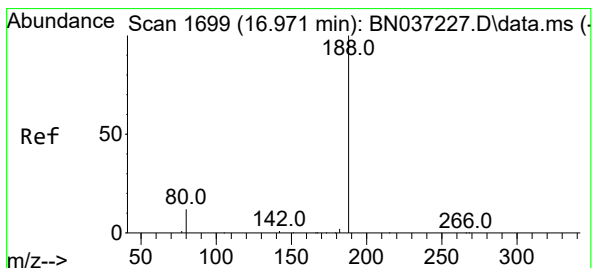
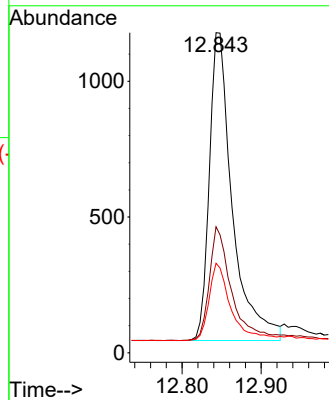
ClientSampleId :

RW11-MW01S-20250611



Tgt Ion:172 Resp: 2301

Ion	Ratio	Lower	Upper
172	100		
171	39.4	29.8	44.8
170	28.0	21.1	31.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

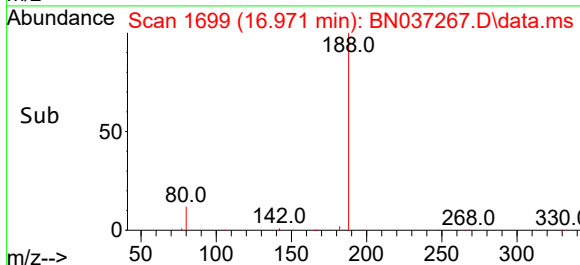
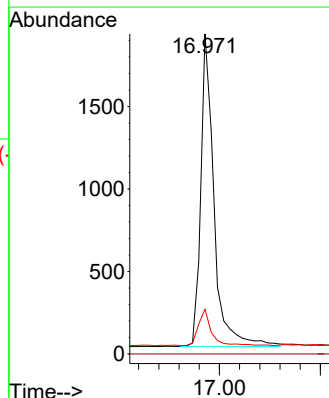
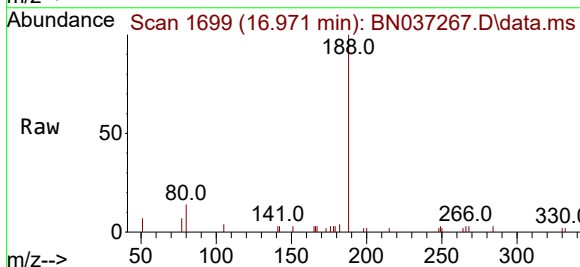
Delta R.T. 0.000 min

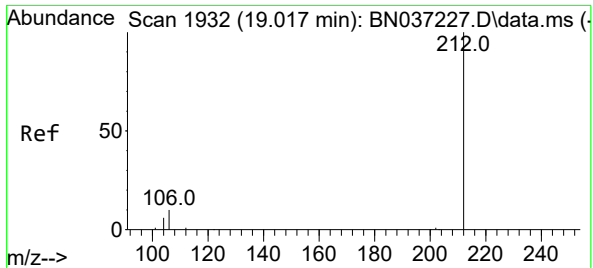
Lab File: BN037267.D

Acq: 14 Jun 2025 18:12

Tgt Ion:188 Resp: 3453

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	12.2	18.4





#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037267.D

Acq: 14 Jun 2025 18:12

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20250611

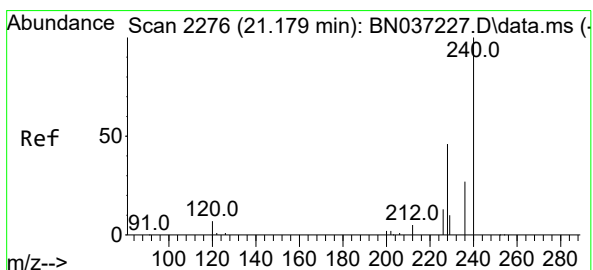
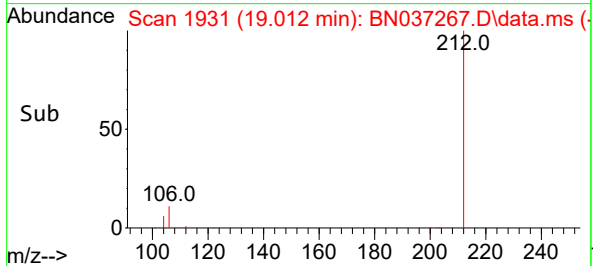
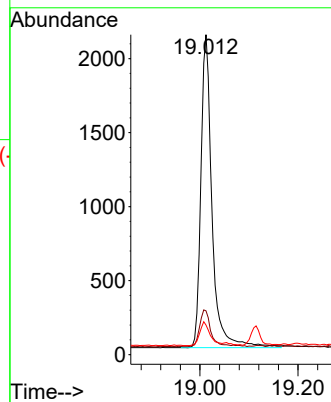
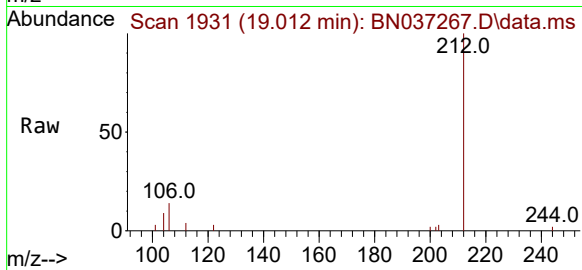
Tgt Ion:212 Resp: 3338

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 7.0 5.7 8.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 2275

Delta R.T. -0.009 min

Lab File: BN037267.D

Acq: 14 Jun 2025 18:12

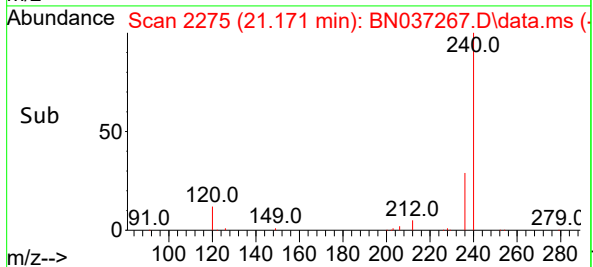
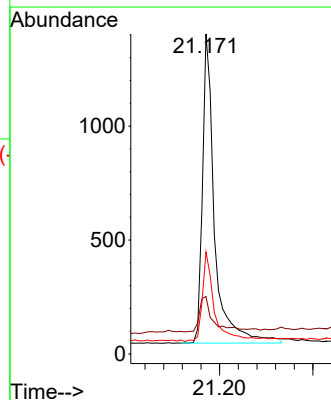
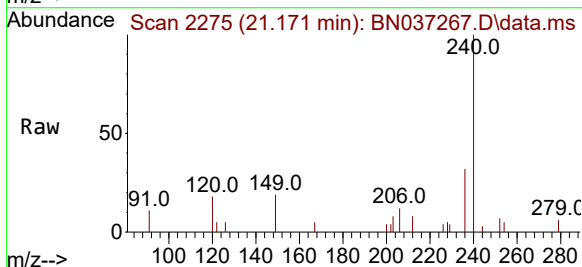
Tgt Ion:240 Resp: 2450

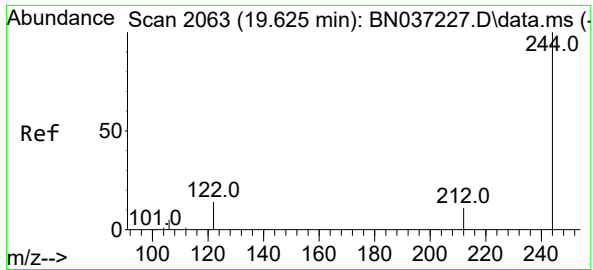
Ion Ratio Lower Upper

240 100

120 17.9 11.3 16.9

236 31.8 24.4 36.6

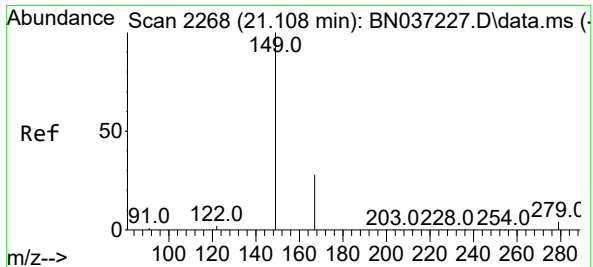
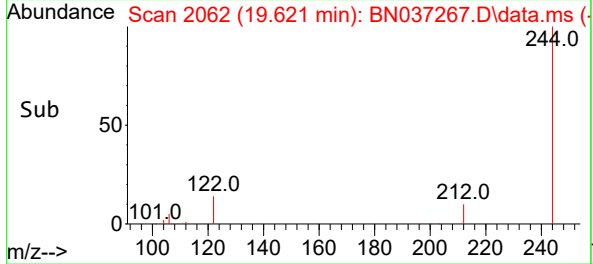
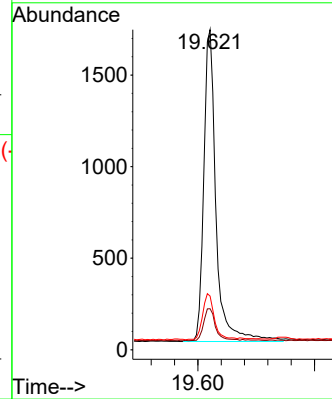
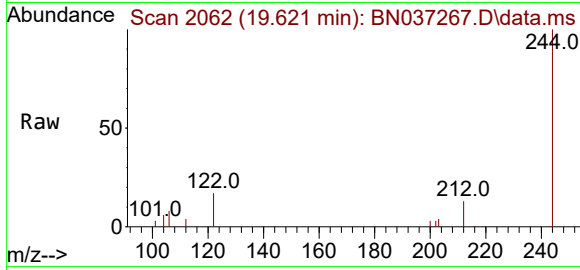




#31
 Terphenyl-d14
 Concen: 0.450 ng
 RT: 19.621 min Scan# 2063
 Delta R.T. -0.004 min
 Lab File: BN037267.D
 Acq: 14 Jun 2025 18:12

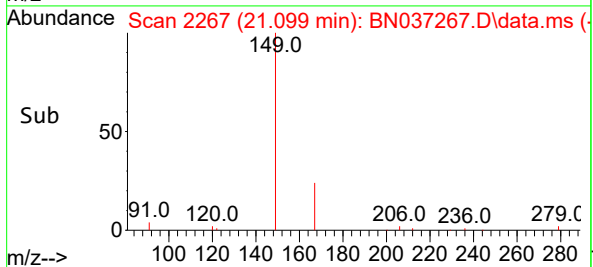
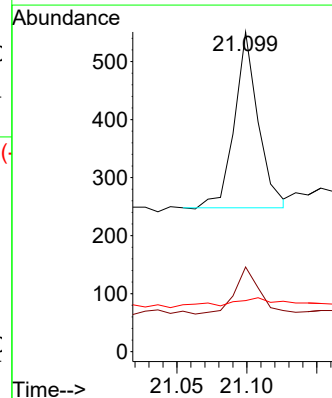
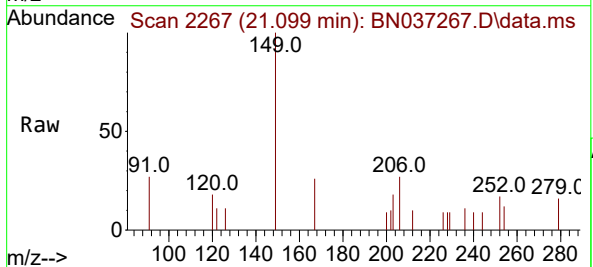
Instrument :
 BNA_N
 ClientSampleId :
 RW11-MW01S-20250611

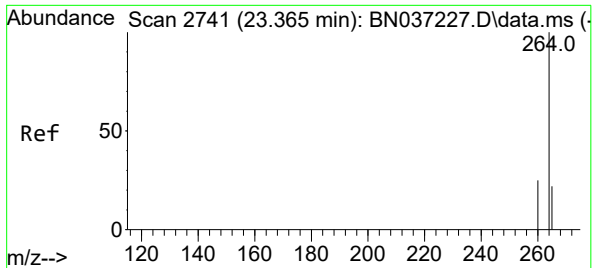
Tgt Ion:244 Resp: 2490
 Ion Ratio Lower Upper
 244 100
 212 12.8 12.2 18.2
 122 16.8 14.3 21.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.058 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.009 min
 Lab File: BN037267.D
 Acq: 14 Jun 2025 18:12

Tgt Ion:149 Resp: 357
 Ion Ratio Lower Upper
 149 100
 167 28.0 21.3 31.9
 279 16.5 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037267.D

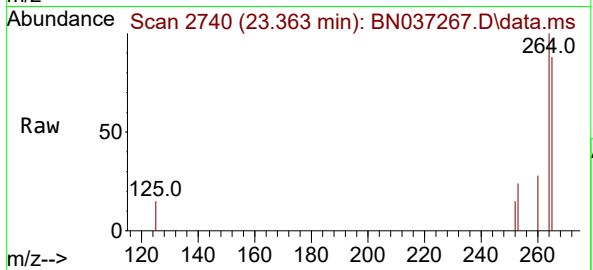
Acq: 14 Jun 2025 18:12

Instrument :

BNA_N

ClientSampleId :

RW11-MW01S-20250611



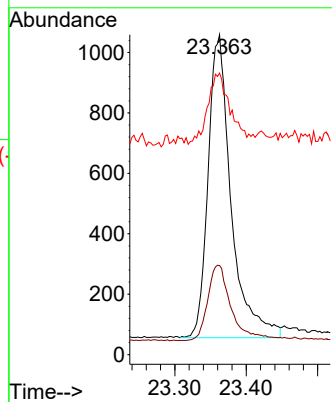
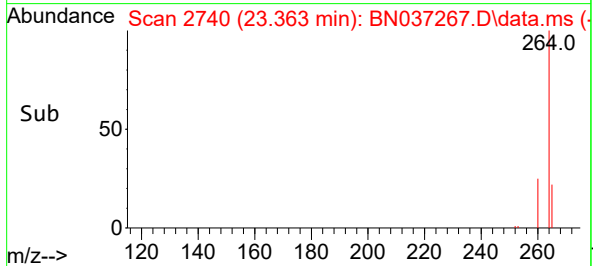
Tgt Ion:264 Resp: 2246

Ion Ratio Lower Upper

264 100

260 27.9 22.8 34.2

265 88.0 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	RE134D1-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 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
BN037268.D	1	06/13/25 08:03	06/14/25 18:48	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.91		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1240	7.575				
1146-65-2	Naphthalene-d8	3140	10.351				
15067-26-2	Acenaphthene-d10	1630	14.224				
1517-22-2	Phenanthrene-d10	2960	16.971				
1719-03-5	Chrysene-d12	2280	21.171				
1520-96-3	Perylene-d12	2150	23.357				

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\BN061325\
 Data File : BN037268.D
 Acq On : 14 Jun 2025 18:48
 Operator : RC/JU
 Sample : Q2299-21
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE134D1-20250611

Quant Time: Jun 16 02:44:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

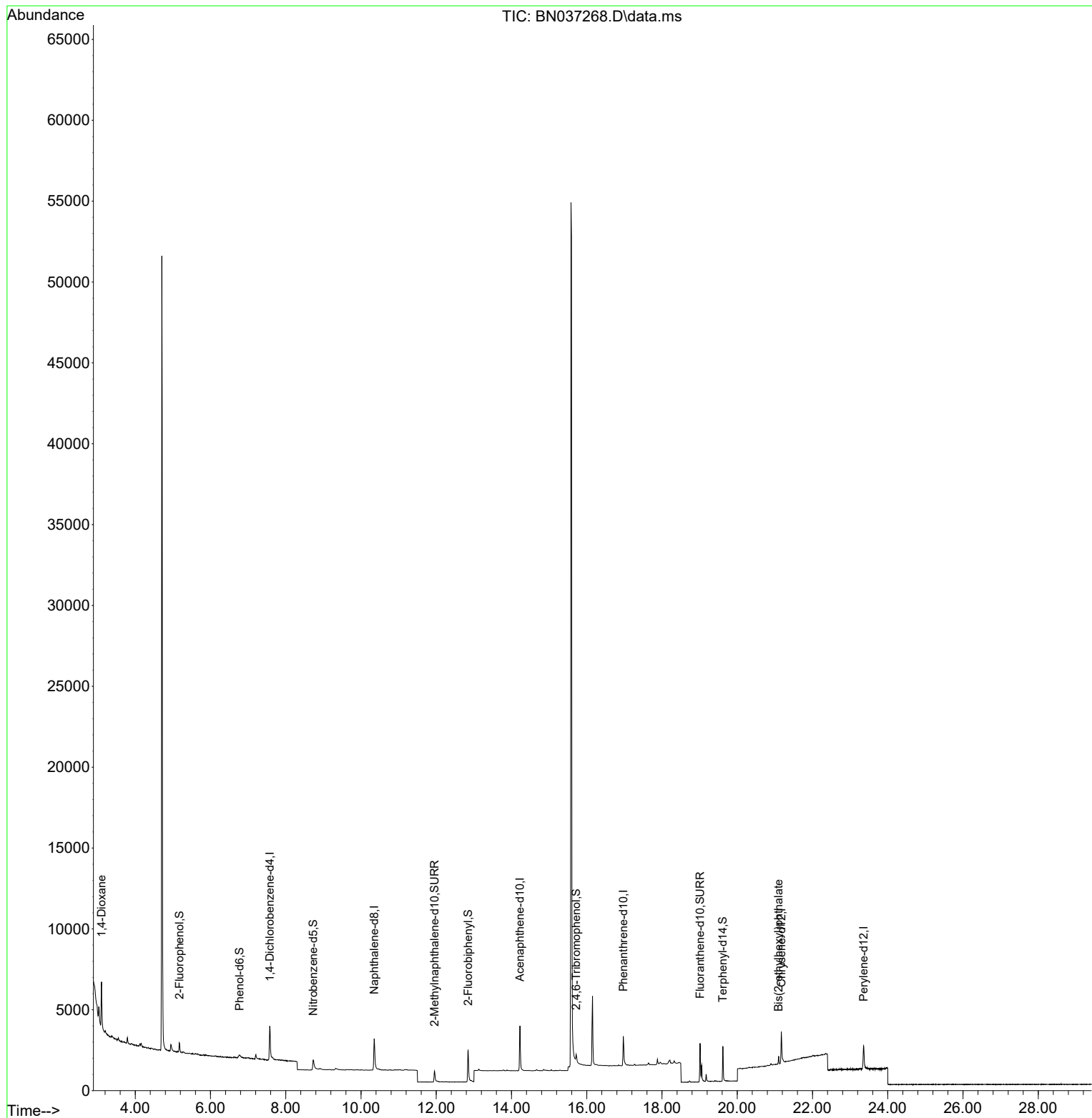
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1239	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3144	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1632	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2957	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2278	0.400	ng	0.00
35) Perylene-d12	23.357	264	2145	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	443	0.146	ng	0.00
5) Phenol-d6	6.773	99	260	0.081	ng	0.01
8) Nitrobenzene-d5	8.728	82	858	0.276	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1270	0.301	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	251	0.370	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	2150	0.313	ng	0.00
27) Fluoranthene-d10	19.012	212	3076	0.398	ng	0.00
31) Terphenyl-d14	19.616	244	2383	0.463	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1485	0.874	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.099	149	472	0.082	ng	95

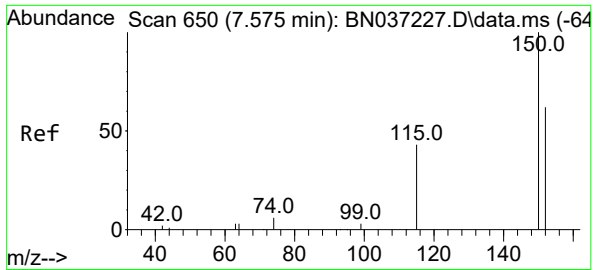
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037268.D
Acq On : 14 Jun 2025 18:48
Operator : RC/JU
Sample : Q2299-21
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

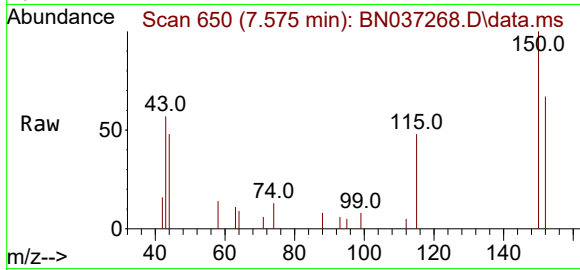
Quant Time: Jun 16 02:44:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



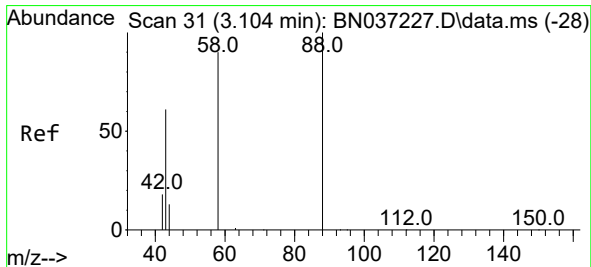
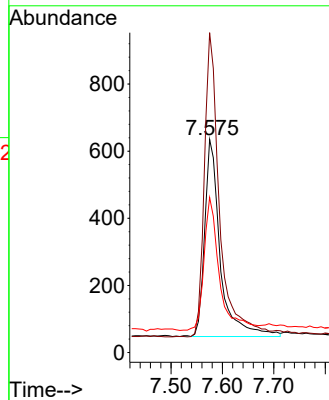
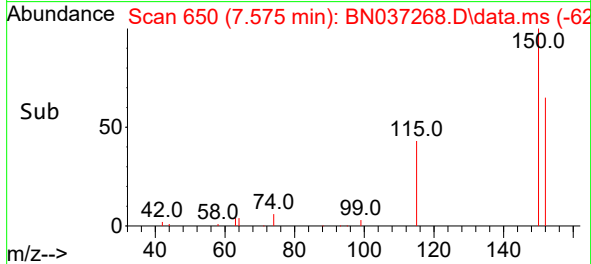


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

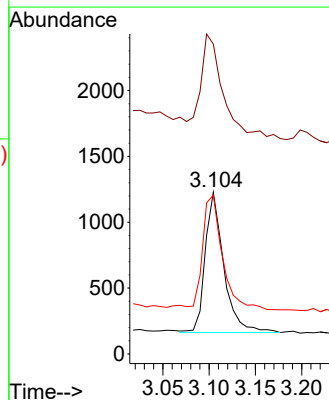
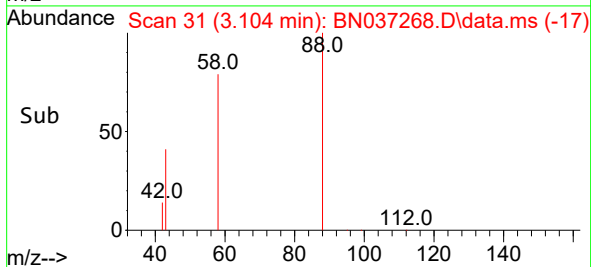
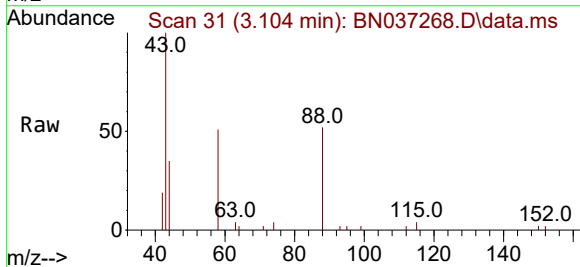


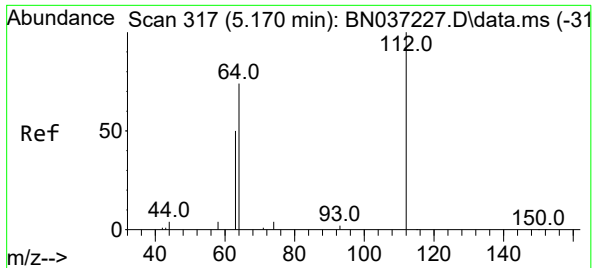
Tgt Ion:152 Resp: 1239
Ion Ratio Lower Upper
152 100
150 150.1 125.2 187.8
115 72.8 58.4 87.6



#2
1,4-Dioxane
Concen: 0.874 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion: 88 Resp: 1485
Ion Ratio Lower Upper
88 100
43 91.7 52.6 79.0#
58 89.6 73.5 110.3

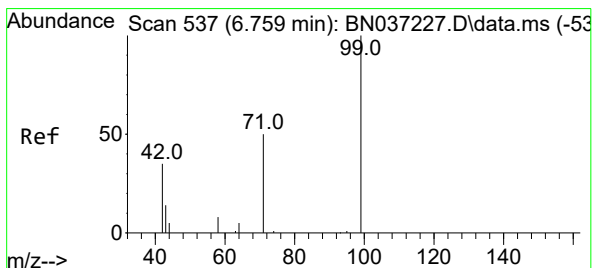
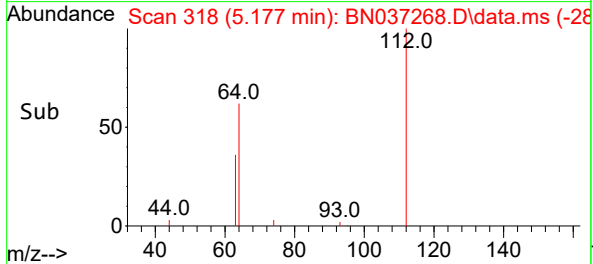
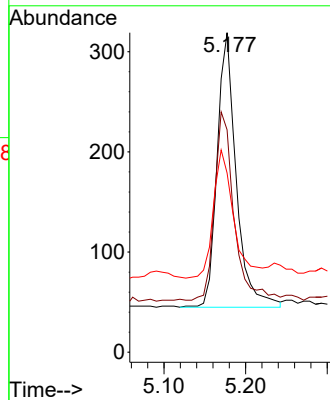
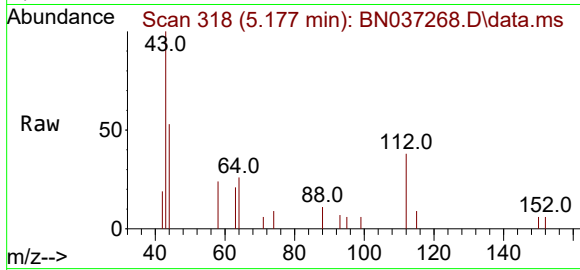




#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

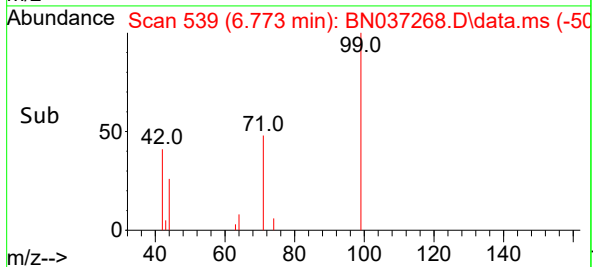
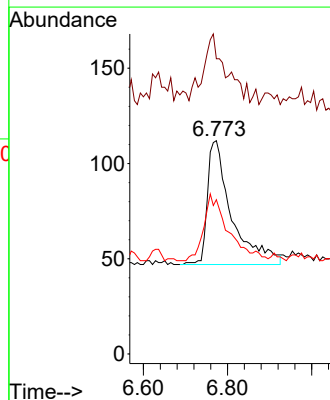
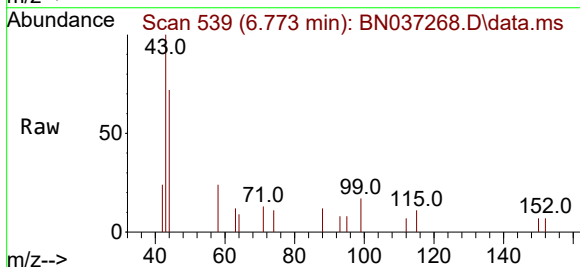
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

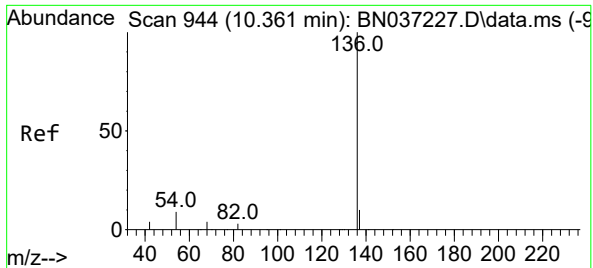
Tgt Ion:112 Resp: 443
Ion Ratio Lower Upper
112 100
64 70.9 57.2 85.8
63 49.9 39.8 59.6



#5
Phenol-d6
Concen: 0.081 ng
RT: 6.773 min Scan# 539
Delta R.T. 0.015 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion: 99 Resp: 260
Ion Ratio Lower Upper
99 100
42 55.4 36.2 54.4#
71 54.2 42.4 63.6

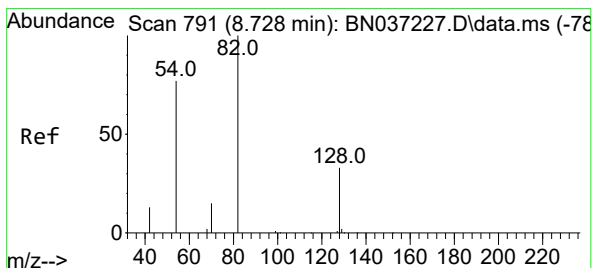
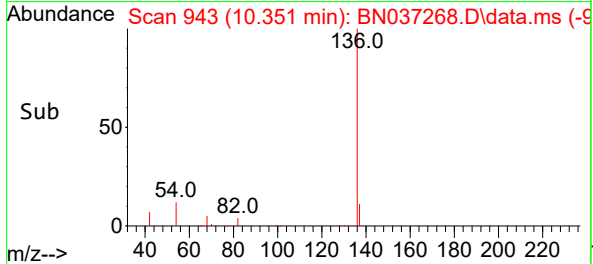
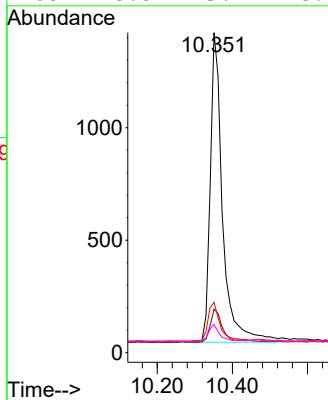
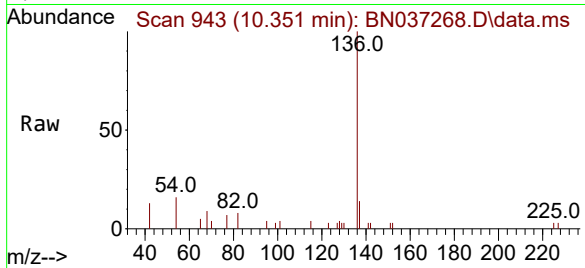




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

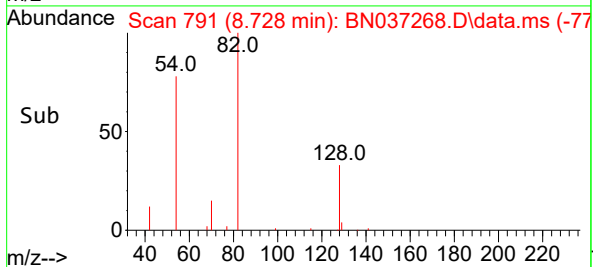
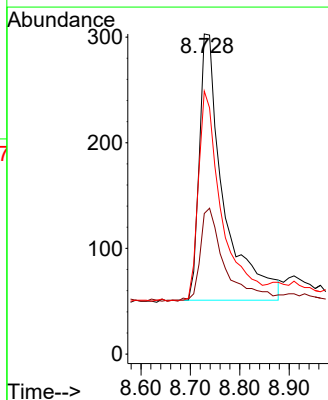
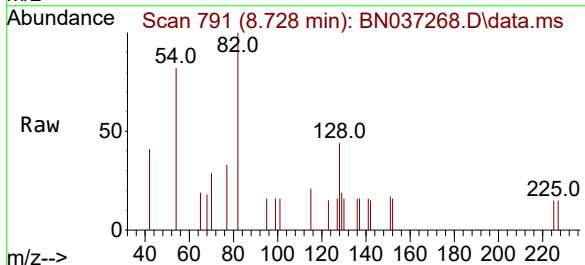
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

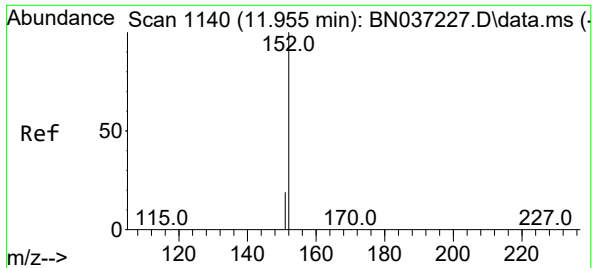
Tgt Ion:	136	Resp:	3144
Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.6	15.8
54	15.7	9.2	13.8#
68	8.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.276 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:	82	Resp:	858
Ion	Ratio	Lower	Upper
82	100		
128	43.9	31.2	46.8
54	82.2	63.3	94.9

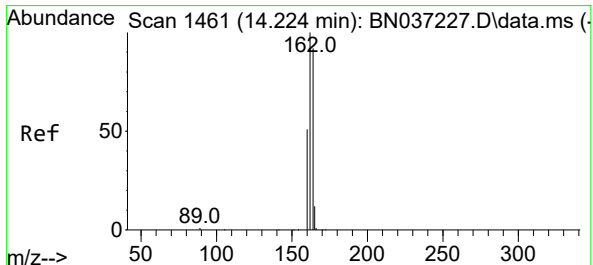
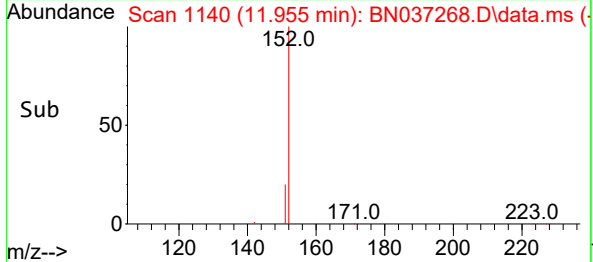
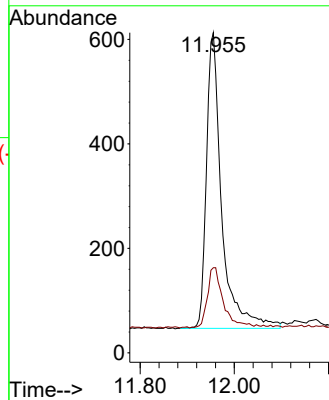
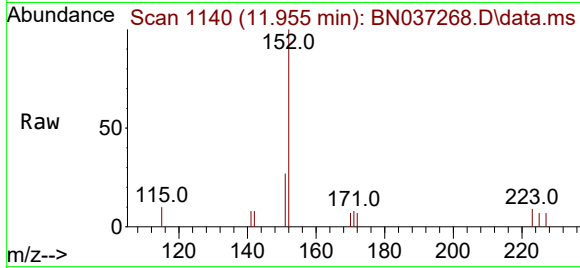




#11
2-Methylnaphthalene-d10
Concen: 0.301 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

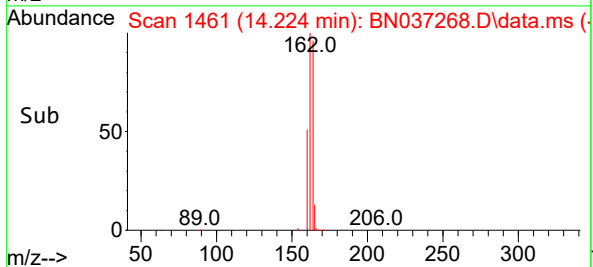
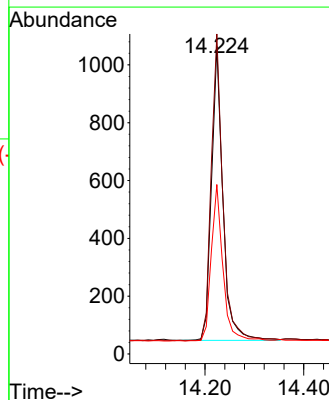
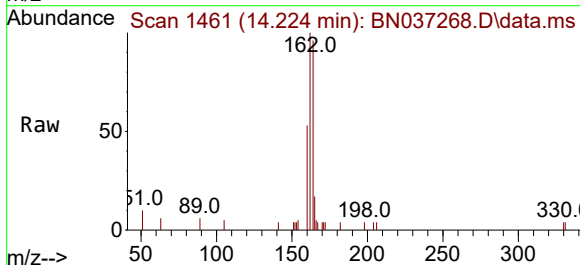
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

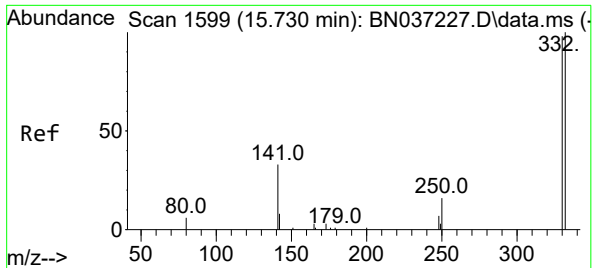
Tgt Ion:152 Resp: 1270
Ion Ratio Lower Upper
152 100
151 21.2 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:164 Resp: 1632
Ion Ratio Lower Upper
164 100
162 104.0 86.7 130.1
160 55.1 45.8 68.6

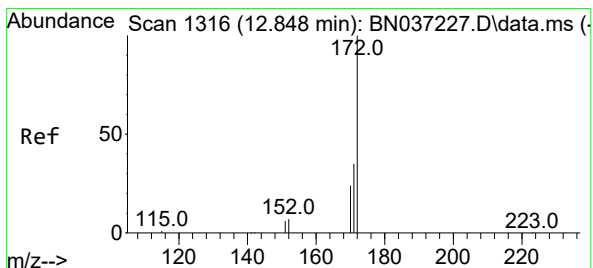
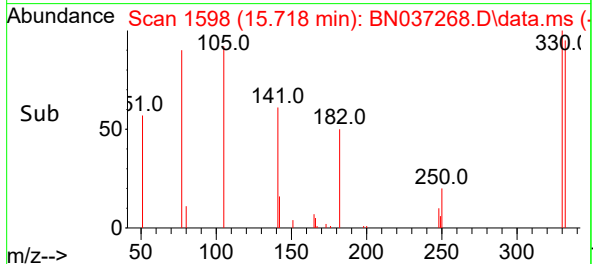
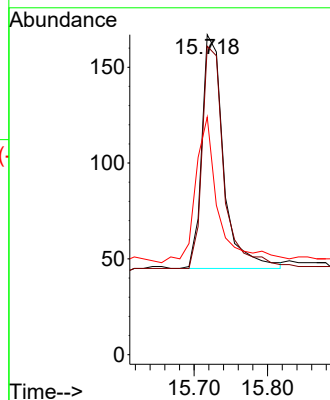
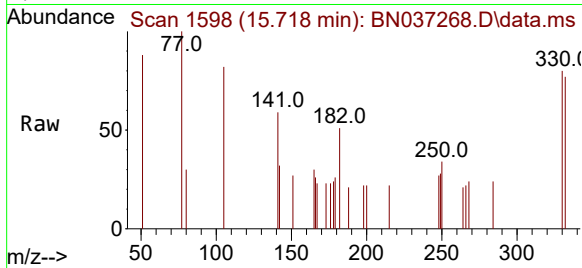




#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

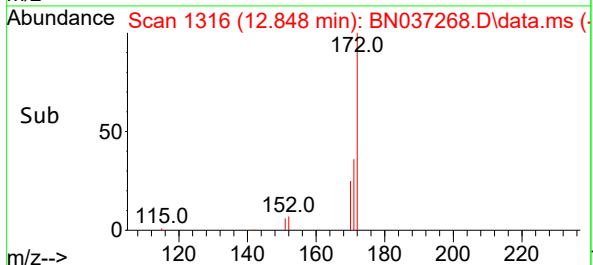
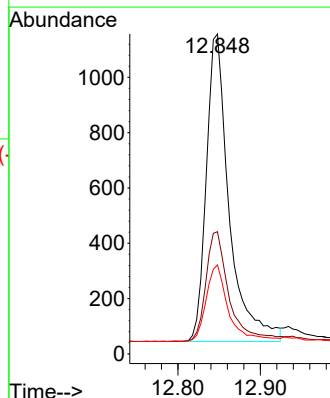
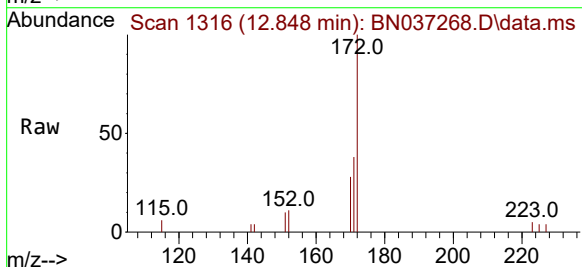
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

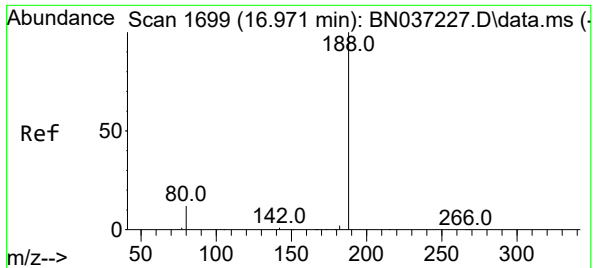
Tgt Ion:330 Resp: 251
Ion Ratio Lower Upper
330 100
332 97.2 74.9 112.3
141 66.1 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:172 Resp: 2150
Ion Ratio Lower Upper
172 100
171 38.2 29.8 44.8
170 27.8 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037268.D

Acq: 14 Jun 2025 18:48

Instrument :

BNA_N

ClientSampleId :

RE134D1-20250611

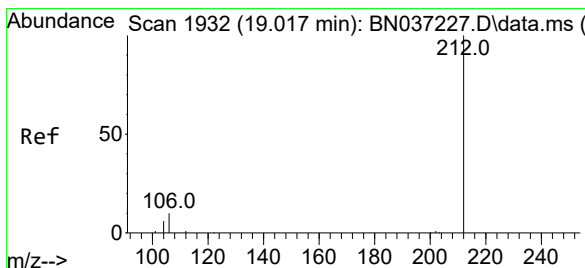
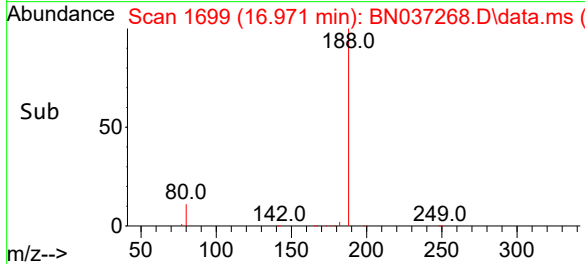
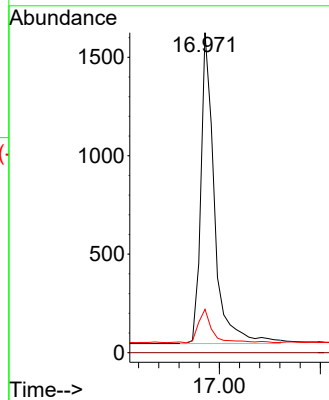
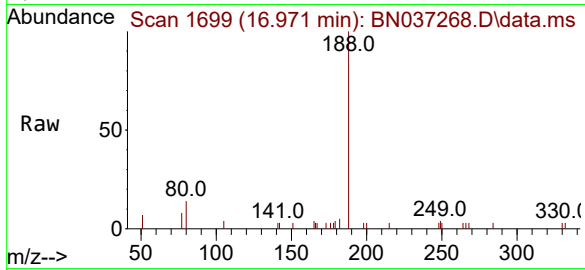
Tgt Ion:188 Resp: 2957

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037268.D

Acq: 14 Jun 2025 18:48

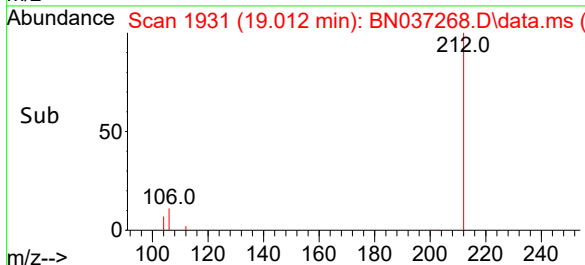
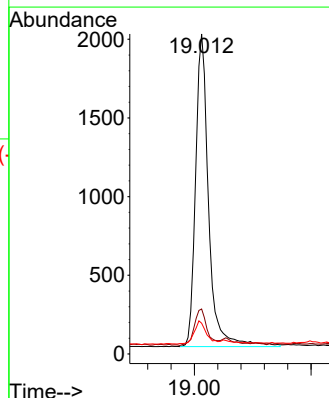
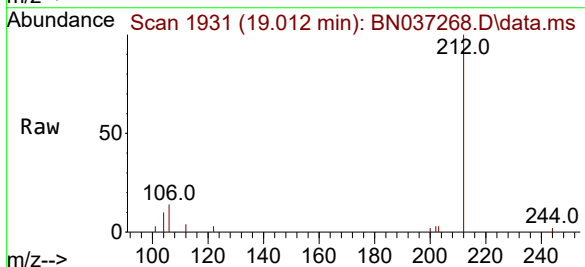
Tgt Ion:212 Resp: 3076

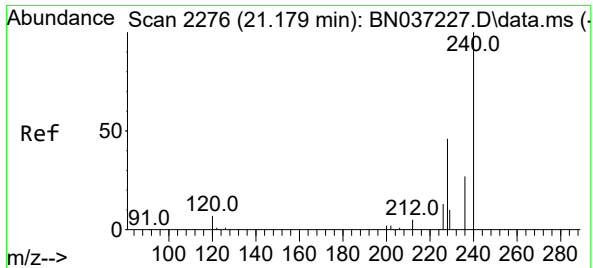
Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 6.8 5.7 8.5

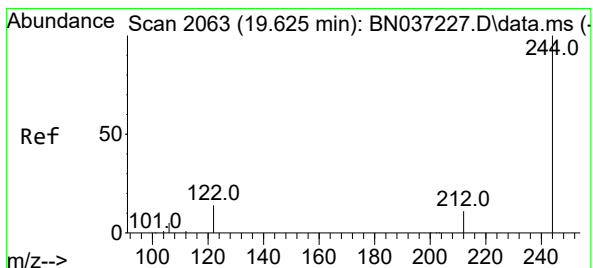
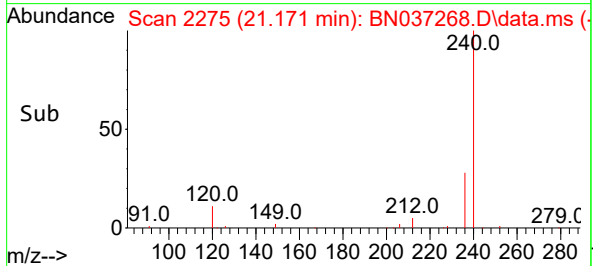
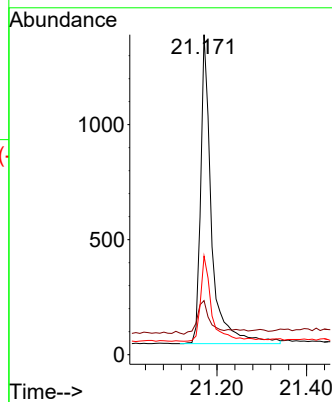
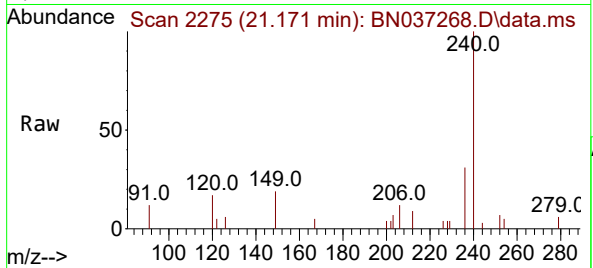




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

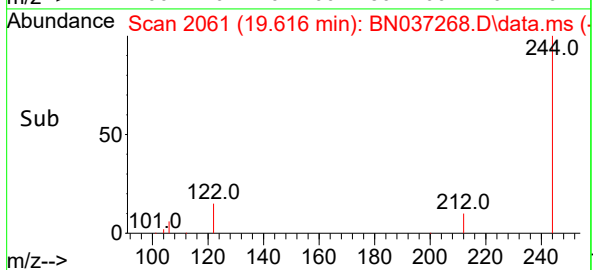
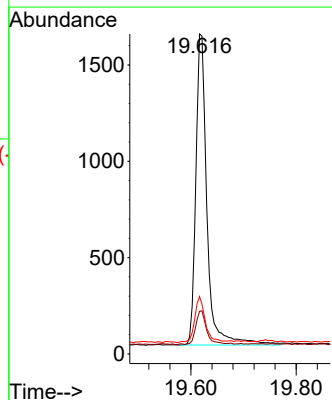
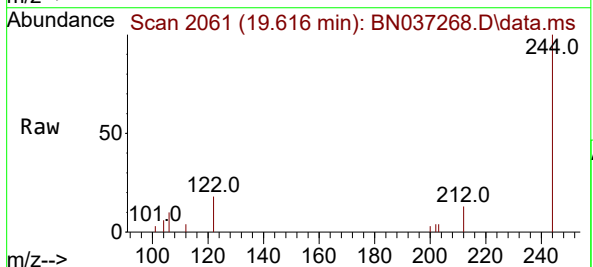
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

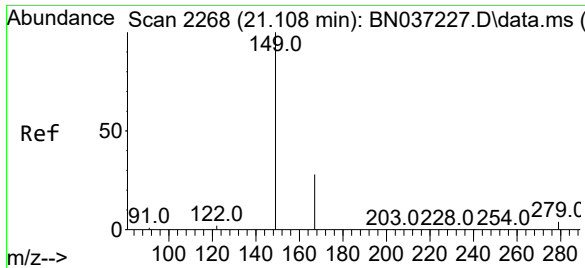
Tgt Ion:240 Resp: 2278
Ion Ratio Lower Upper
240 100
120 16.9 11.3 16.9
236 30.8 24.4 36.6



#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:244 Resp: 2383
Ion Ratio Lower Upper
244 100
212 13.3 12.2 18.2
122 17.9 14.3 21.5

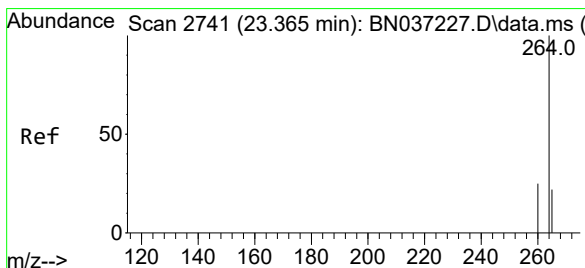
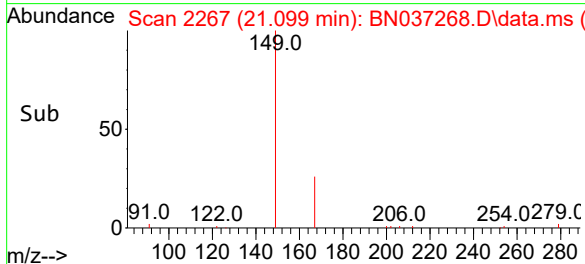
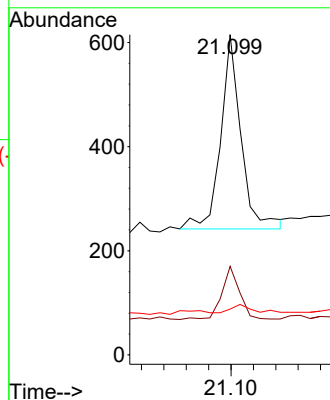
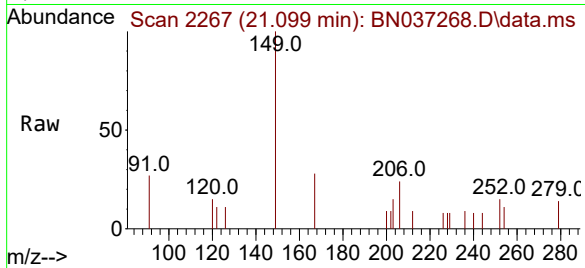




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.082 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

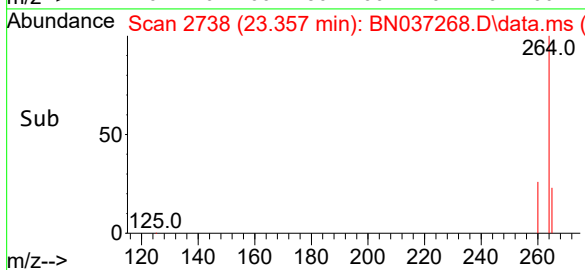
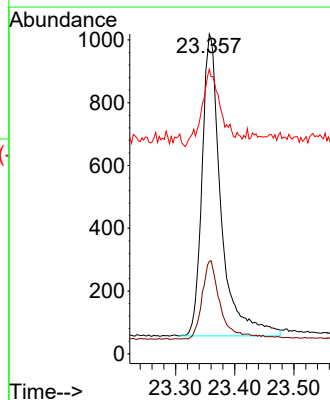
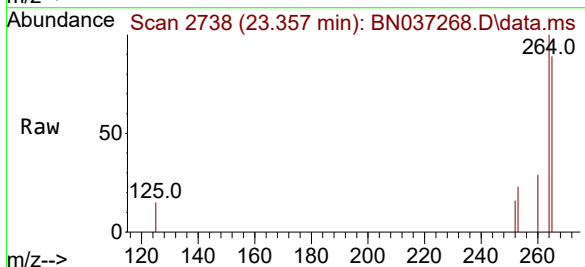
Instrument :
BNA_N
ClientSampleId :
RE134D1-20250611

Tgt Ion:149 Resp: 472
Ion Ratio Lower Upper
149 100
167 23.9 21.3 31.9
279 4.7 3.3 4.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. -0.009 min
Lab File: BN037268.D
Acq: 14 Jun 2025 18:48

Tgt Ion:264 Resp: 2145
Ion Ratio Lower Upper
264 100
260 28.9 22.8 34.2
265 89.0 66.4 99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT190D2-20250611	SDG No.:	Q2299
Lab Sample ID:	Q2299-22	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
BN037269.D	1	06/13/25 08:03	06/14/25 19:24	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.30		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	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1250	7.575				
1146-65-2	Naphthalene-d8	3040	10.351				
15067-26-2	Acenaphthene-d10	1620	14.224				
1517-22-2	Phenanthrene-d10	2850	16.971				
1719-03-5	Chrysene-d12	2130	21.171				
1520-96-3	Perylene-d12	2000	23.36				

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\BN061325\
 Data File : BN037269.D
 Acq On : 14 Jun 2025 19:24
 Operator : RC/JU
 Sample : Q2299-22
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT190D2-20250611

Quant Time: Jun 16 02:44:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

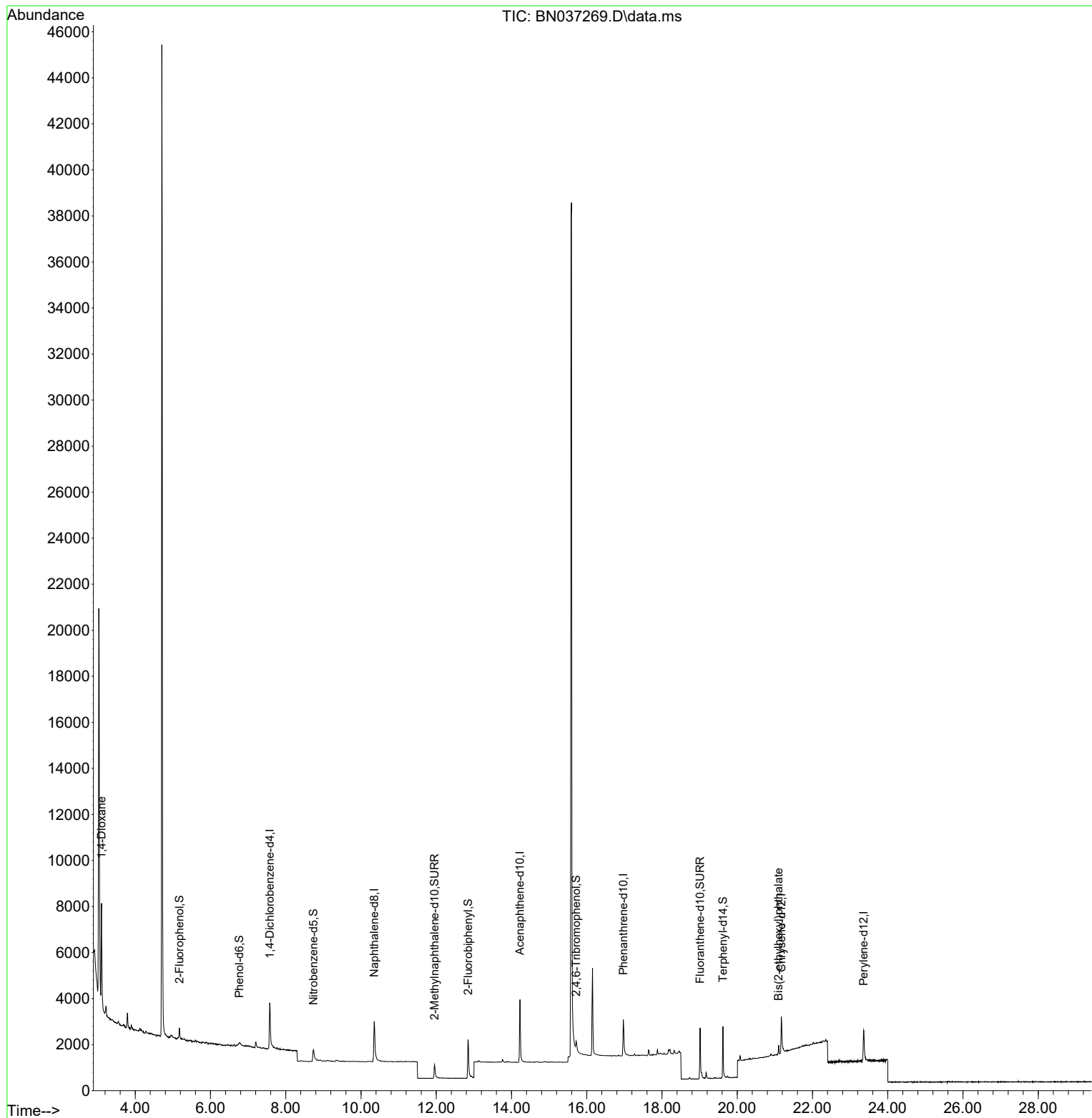
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1248	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3038	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1624	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2851	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2132	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1996	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	364	0.119	ng	0.00
5) Phenol-d6	6.766	99	194	0.060	ng	0.00
8) Nitrobenzene-d5	8.739	82	726	0.242	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1172	0.287	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	228	0.338	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	1938	0.284	ng	0.00
27) Fluoranthene-d10	19.012	212	2983	0.400	ng	0.00
31) Terphenyl-d14	19.621	244	2407	0.499	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2294	1.340	ng	92
34) Bis(2-ethylhexyl)phtha...	21.099	149	402	0.075	ng	# 97

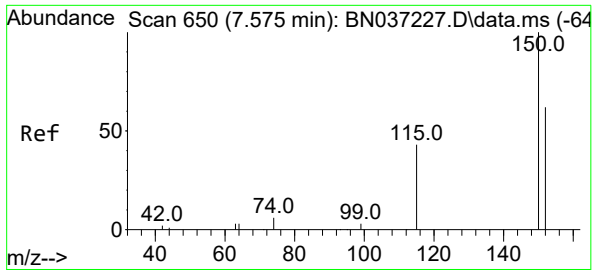
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037269.D
Acq On : 14 Jun 2025 19:24
Operator : RC/JU
Sample : Q2299-22
Misc :
ALS Vial : 48 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

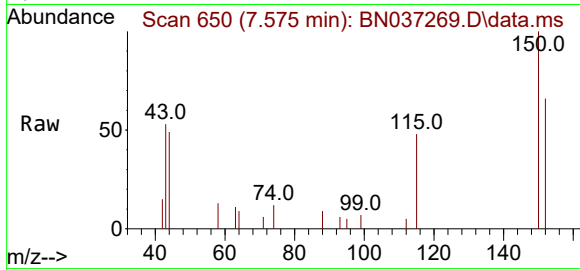
Quant Time: Jun 16 02:44:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



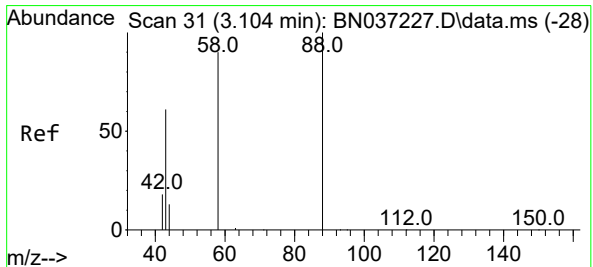
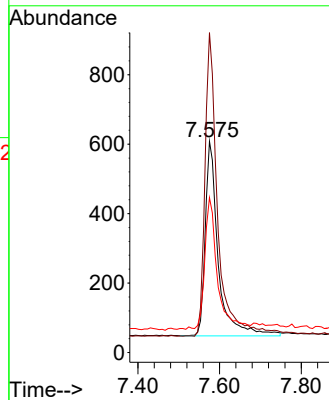
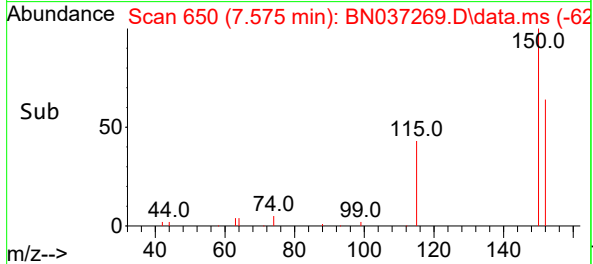


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

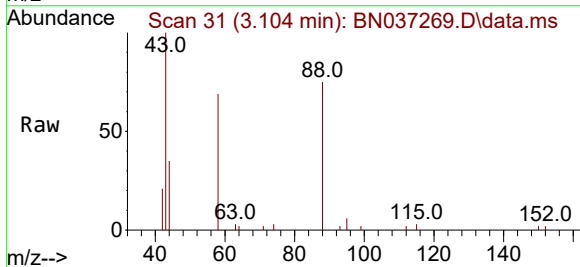
Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611



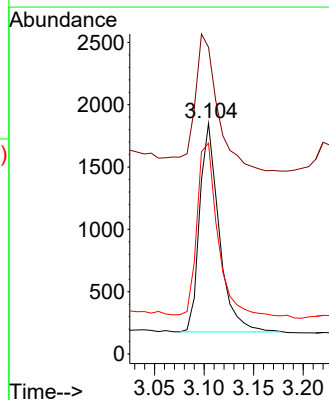
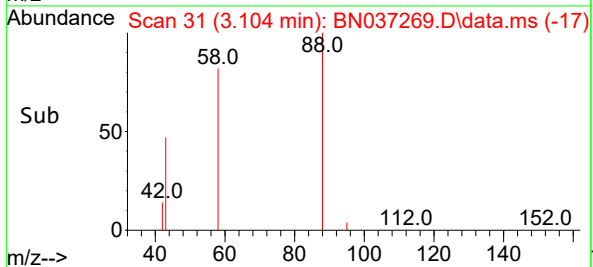
Tgt Ion:152 Resp: 1248
Ion Ratio Lower Upper
152 100
150 151.5 125.2 187.8
115 73.4 58.4 87.6

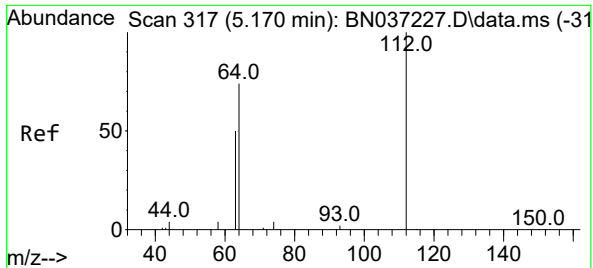


#2
1,4-Dioxane
Concen: 1.340 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24



Tgt Ion: 88 Resp: 2294
Ion Ratio Lower Upper
88 100
43 75.5 52.6 79.0
58 87.8 73.5 110.3

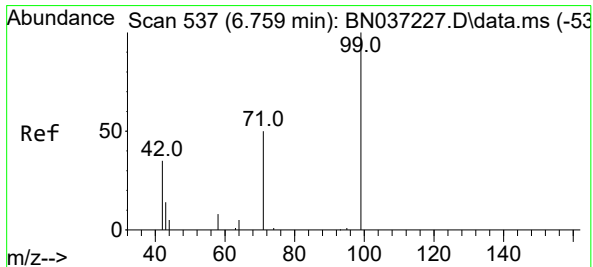
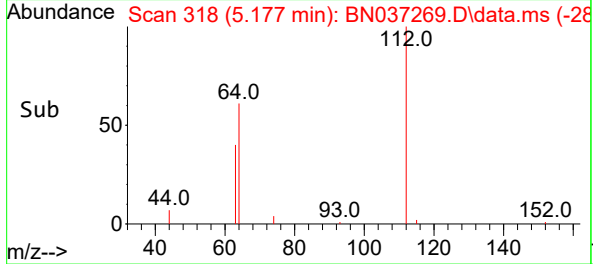
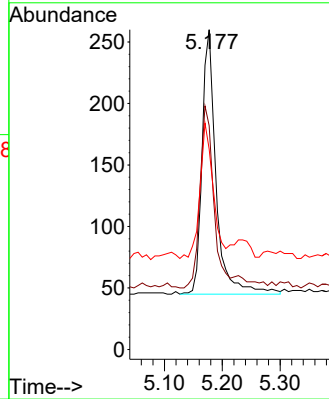
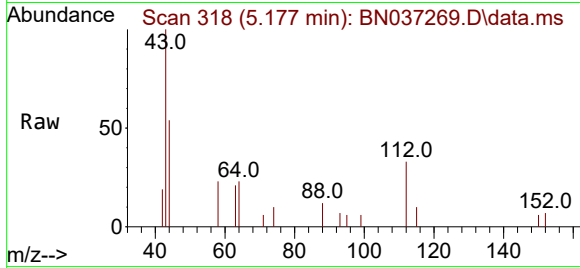




#4
2-Fluorophenol
Concen: 0.119 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

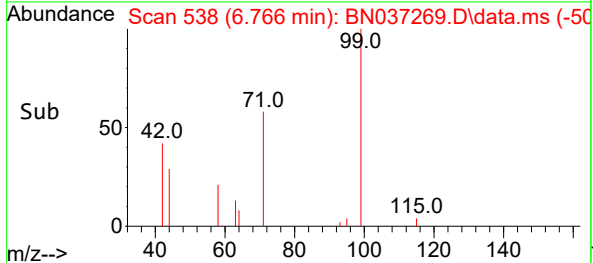
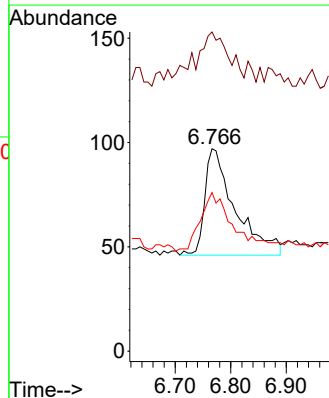
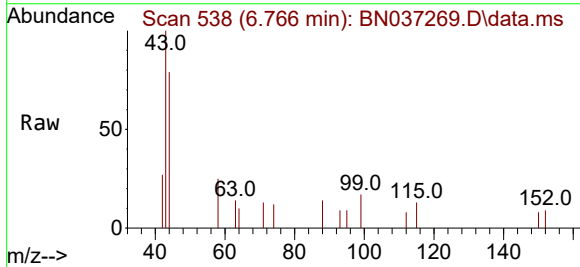
Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

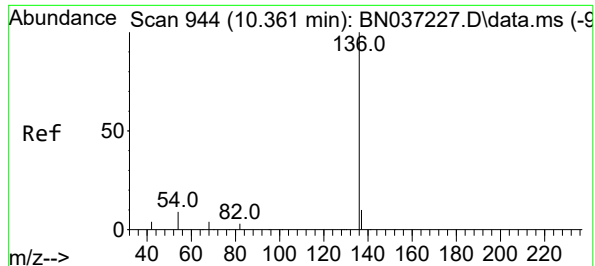
Tgt Ion:	112	Resp:	364
Ion	Ratio	Lower	Upper
112	100		
64	73.1	57.2	85.8
63	47.8	39.8	59.6



#5
Phenol-d6
Concen: 0.060 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:	99	Resp:	194
Ion	Ratio	Lower	Upper
99	100		
42	45.4	36.2	54.4
71	55.2	42.4	63.6

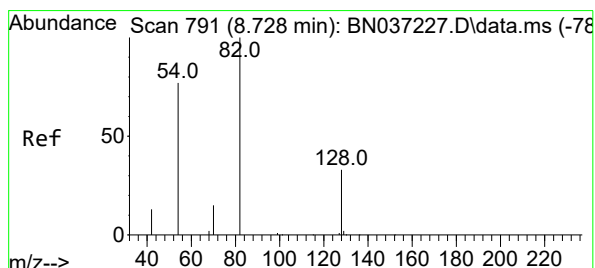
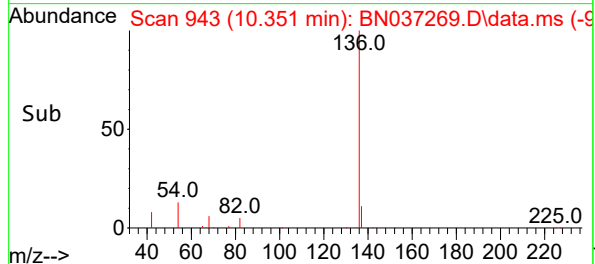
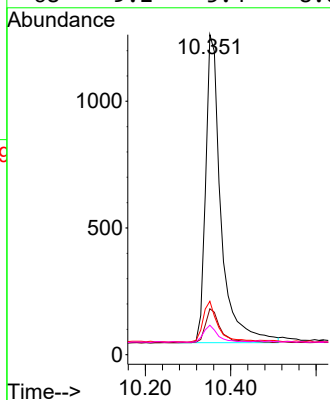
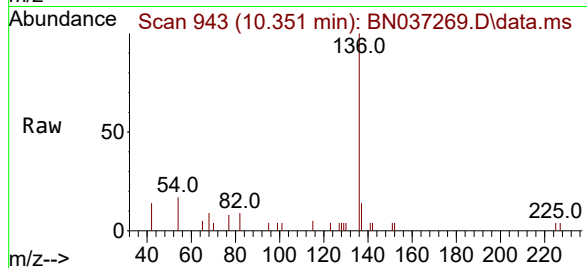




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

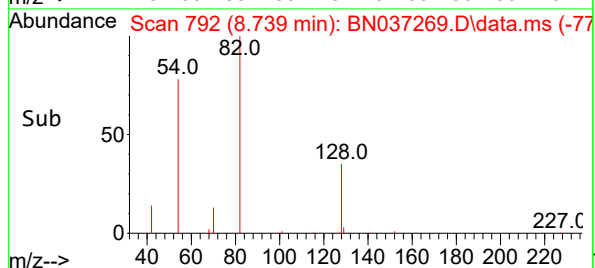
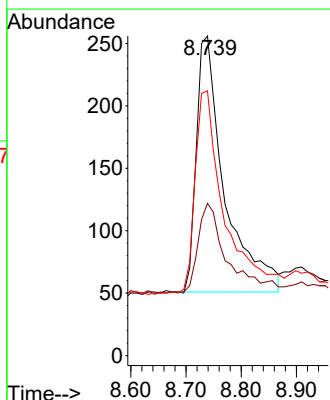
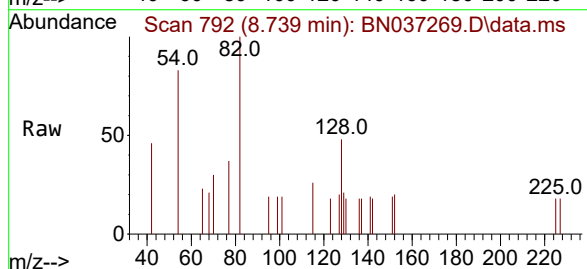
Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

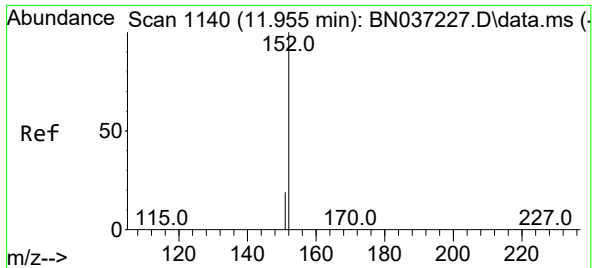
Tgt Ion:136 Resp: 3038
Ion Ratio Lower Upper
136 100
137 14.3 10.6 15.8
54 16.7 9.2 13.8#
68 9.2 5.4 8.0#



#8
Nitrobenzene-d5
Concen: 0.242 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion: 82 Resp: 726
Ion Ratio Lower Upper
82 100
128 47.7 31.2 46.8#
54 82.8 63.3 94.9

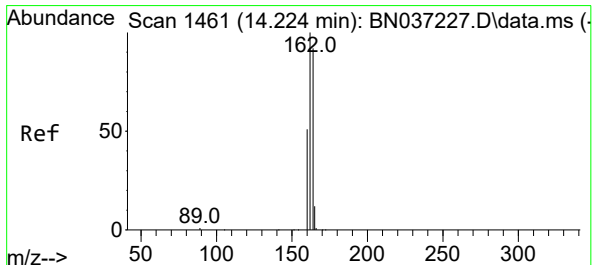
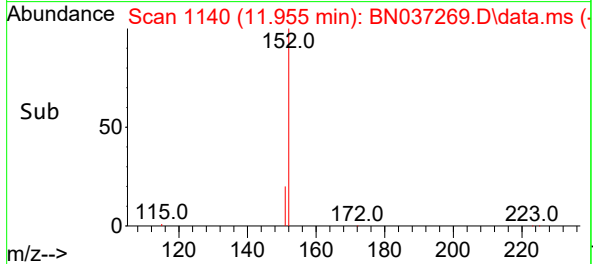
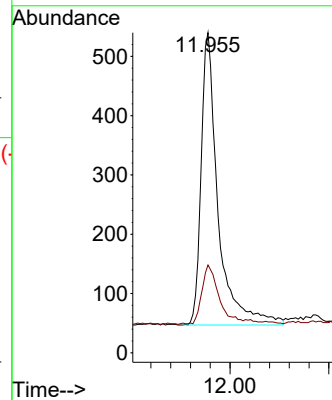
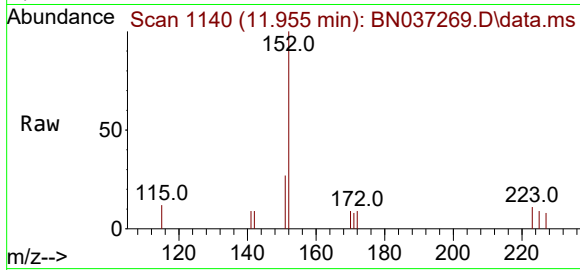




#11
2-Methylnaphthalene-d10
Concen: 0.287 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

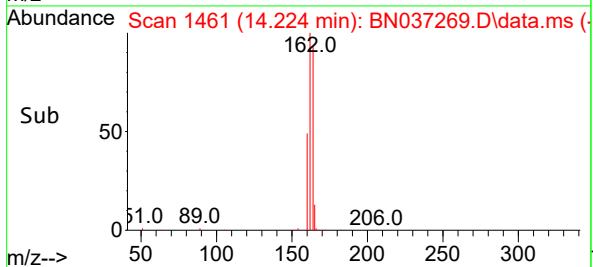
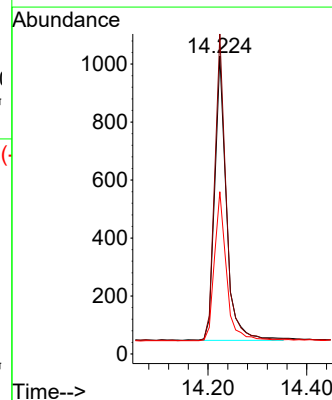
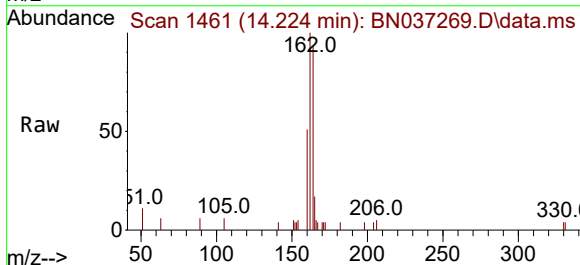
Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

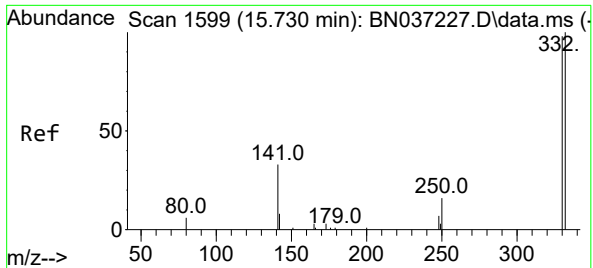
Tgt Ion:152 Resp: 1172
Ion Ratio Lower Upper
152 100
151 19.8 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:164 Resp: 1624
Ion Ratio Lower Upper
164 100
162 107.4 86.7 130.1
160 54.5 45.8 68.6





#14

2,4,6-Tribromophenol

Concen: 0.338 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

Instrument :

BNA_N

ClientSampleId :

TT190D2-20250611

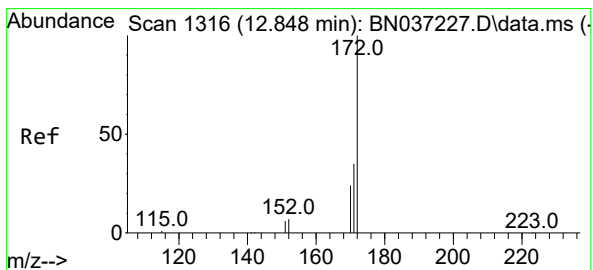
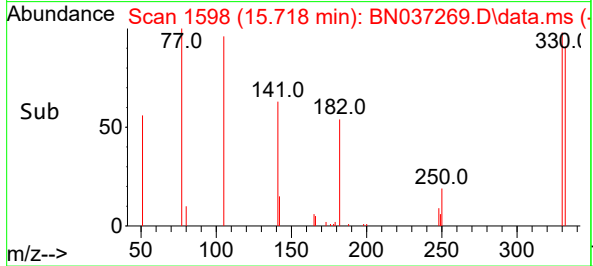
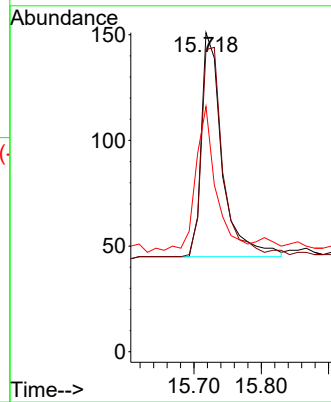
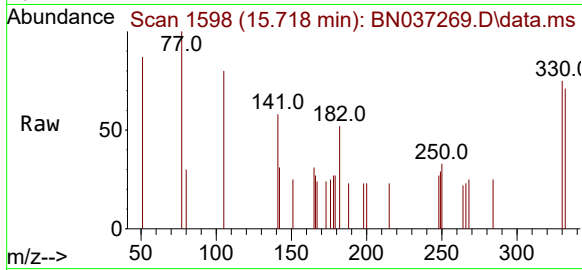
Tgt Ion:330 Resp: 228

Ion Ratio Lower Upper

330 100

332 100.0 74.9 112.3

141 61.4 45.1 67.7



#15

2-Fluorobiphenyl

Concen: 0.284 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

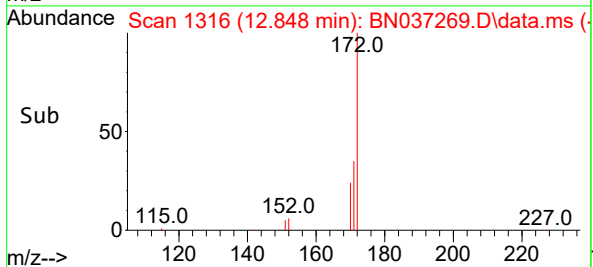
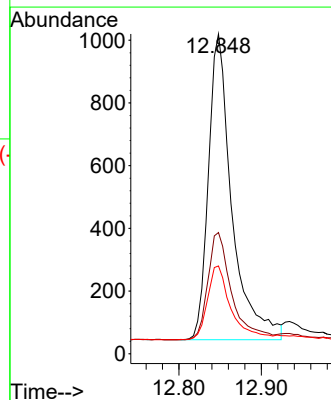
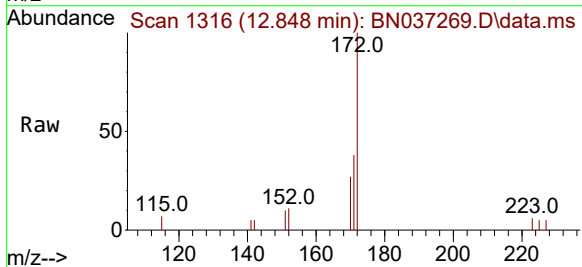
Tgt Ion:172 Resp: 1938

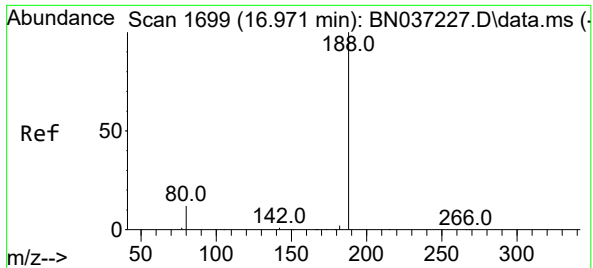
Ion Ratio Lower Upper

172 100

171 37.9 29.8 44.8

170 27.5 21.1 31.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

Instrument :

BNA_N

ClientSampleId :

TT190D2-20250611

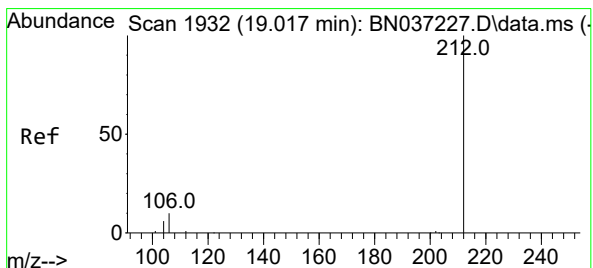
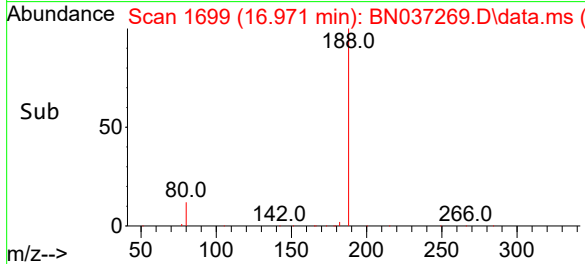
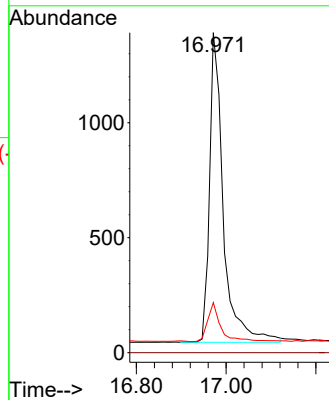
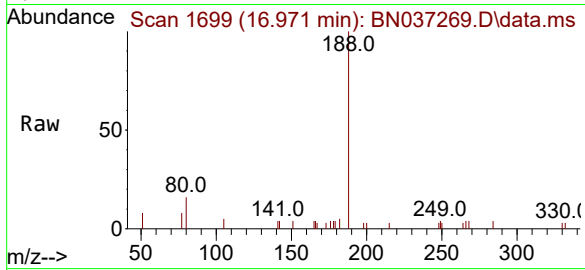
Tgt Ion:188 Resp: 2851

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.400 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

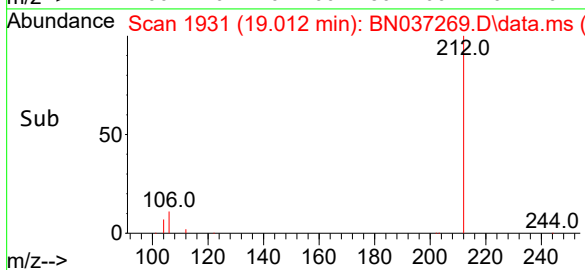
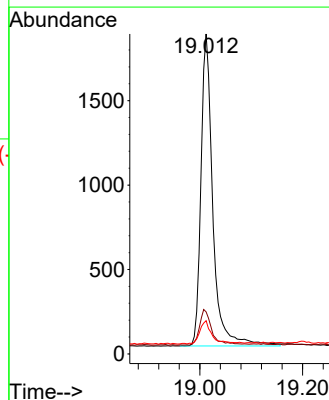
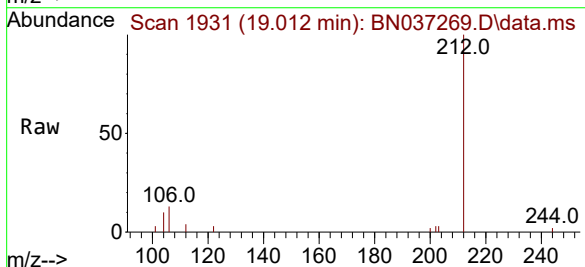
Tgt Ion:212 Resp: 2983

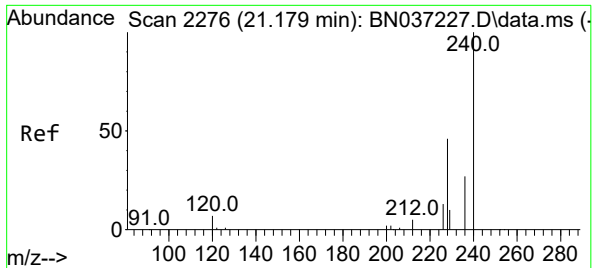
Ion Ratio Lower Upper

212 100

106 11.7 9.3 13.9

104 7.3 5.7 8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

Instrument :

BNA_N

ClientSampleId :

TT190D2-20250611

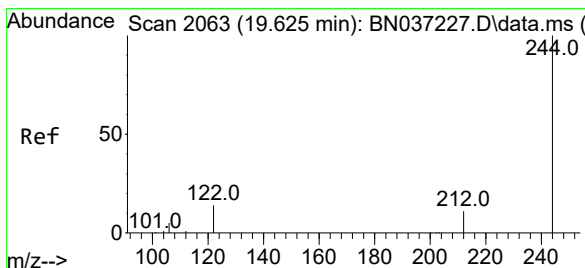
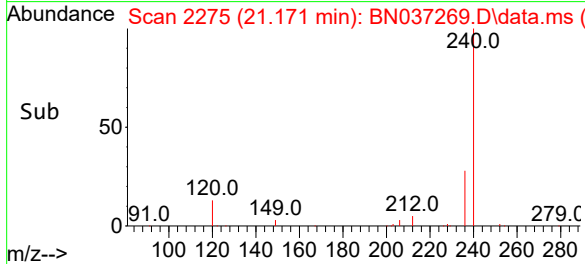
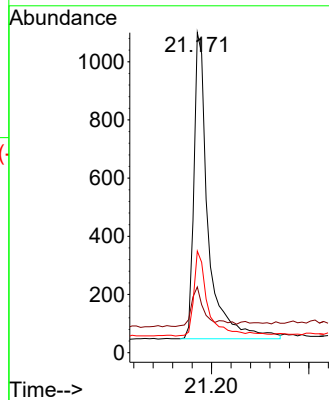
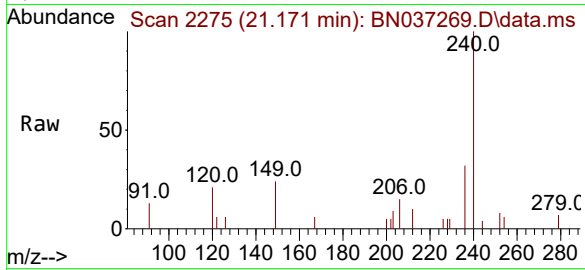
Tgt Ion:240 Resp: 2132

Ion Ratio Lower Upper

240 100

120 20.5 11.3 16.9#

236 31.7 24.4 36.6



#31

Terphenyl-d14

Concen: 0.499 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037269.D

Acq: 14 Jun 2025 19:24

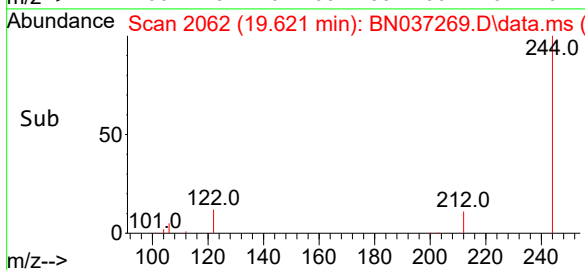
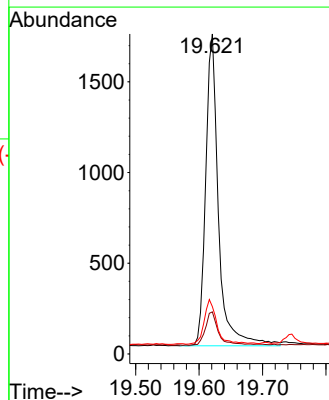
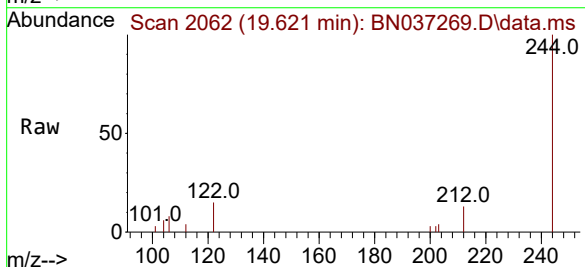
Tgt Ion:244 Resp: 2407

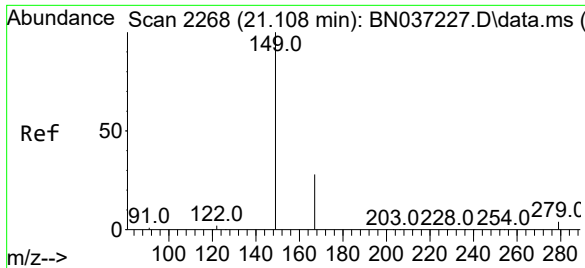
Ion Ratio Lower Upper

244 100

212 13.2 12.2 18.2

122 14.8 14.3 21.5

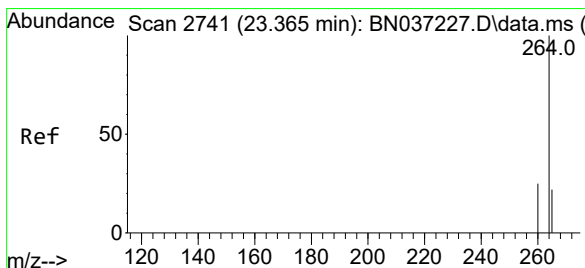
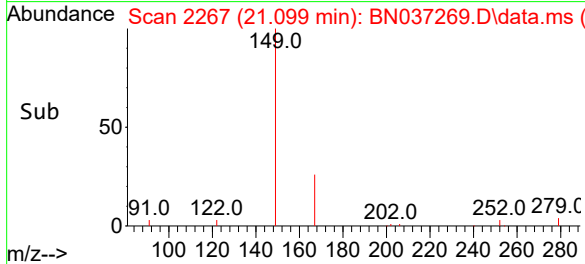
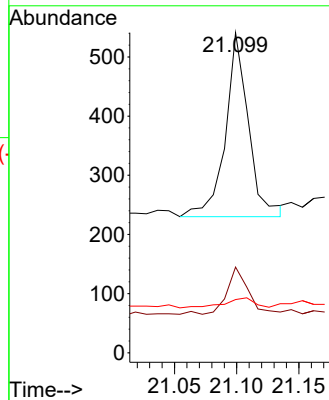
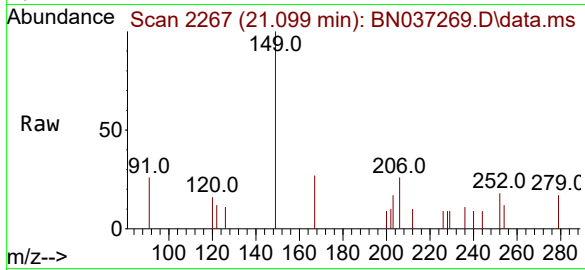




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.075 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

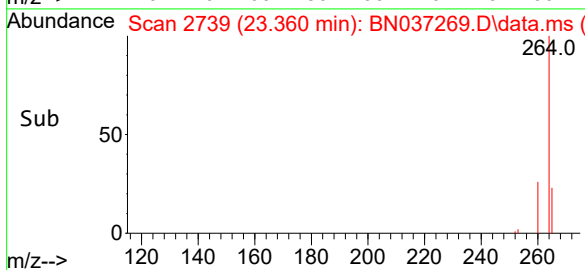
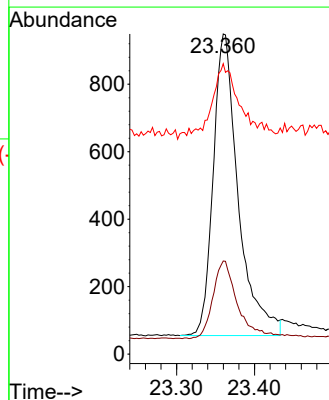
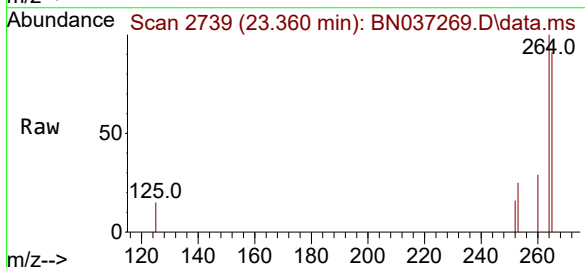
Instrument :
BNA_N
ClientSampleId :
TT190D2-20250611

Tgt Ion:149 Resp: 402
Ion Ratio Lower Upper
149 100
167 25.4 21.3 31.9
279 7.0 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 2739
Delta R.T. -0.006 min
Lab File: BN037269.D
Acq: 14 Jun 2025 19:24

Tgt Ion:264 Resp: 1996
Ion Ratio Lower Upper
264 100
260 29.1 22.8 34.2
265 90.7 66.4 99.6





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN061325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jun 13 18:43:34 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56	
3)	n-Nitrosodimet...	1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18	
4) S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5) S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)	bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)	Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)	Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11) SURR	2-Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)	2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15) S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)	Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)	Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)	Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.074	0.066	0.086	0.100	0.110	0.116	0.092	21.86	
21)	4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)	Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)	Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)	Pentachlorophenol	0.139	0.124	0.137	0.154	0.162	0.171	0.148	11.86	
25)	Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)	Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27) SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)	Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31) S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)	Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)	Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)	Bis(2-ethylhex...	1.104	1.024	1.000	1.006	0.942	0.960	1.006	5.65	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN061325.M

36)	Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)	Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)	Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39) C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)	Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)	Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037225.D
 Acq On : 13 Jun 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	742m	0.109	ng	
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	447m	0.091	ng	
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

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

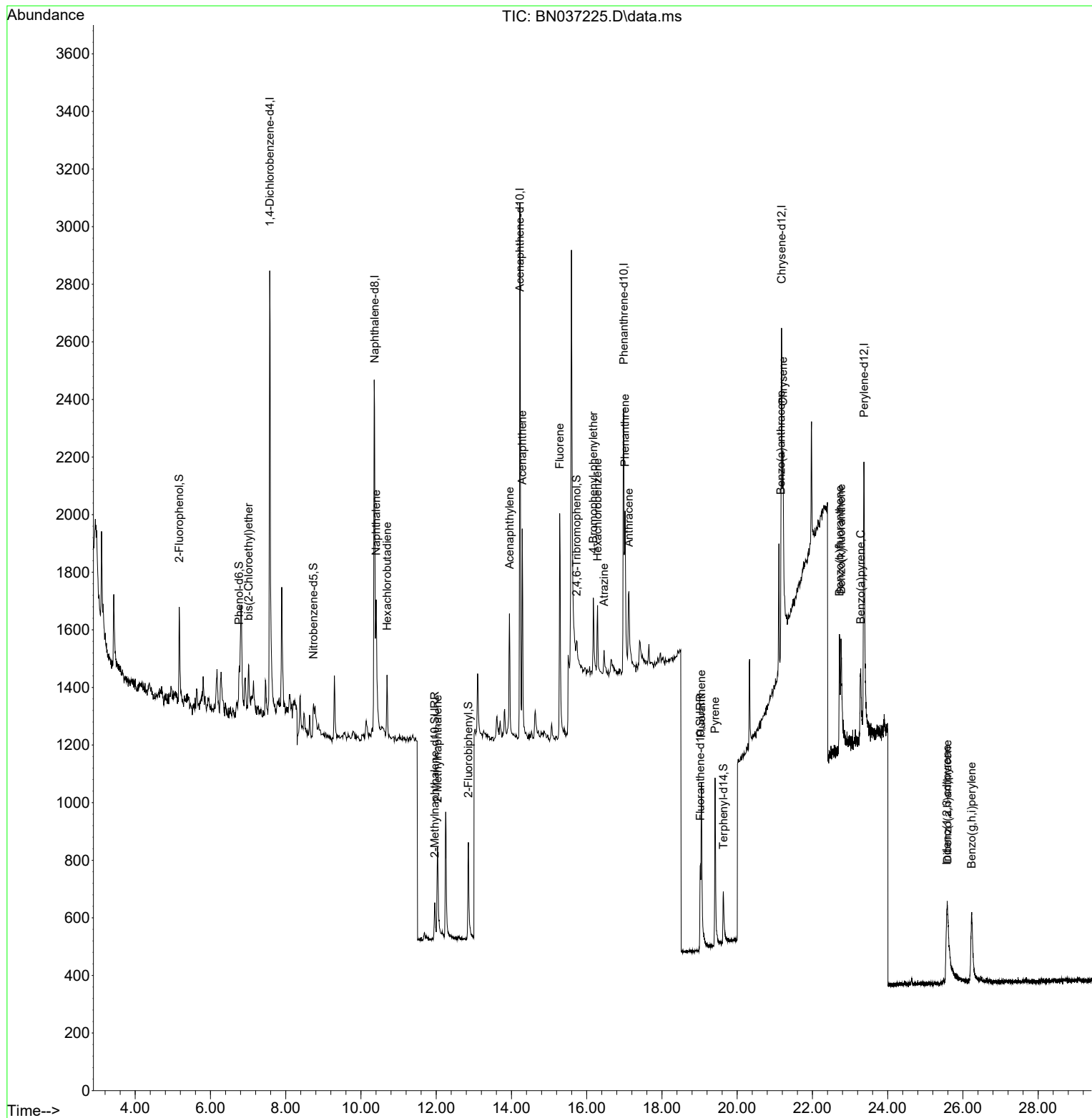
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Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

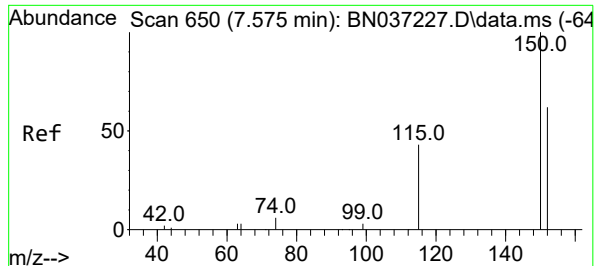
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BNA_N
ClientSampleId :
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Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

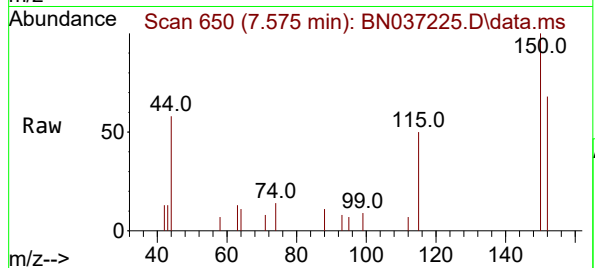
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 612
Delta R.T. -0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

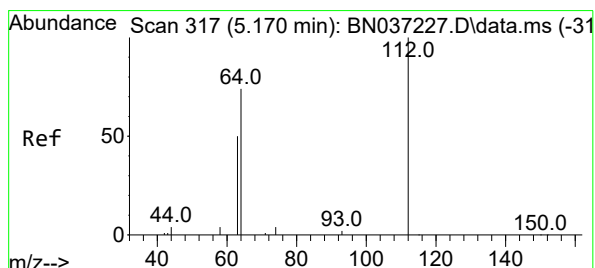
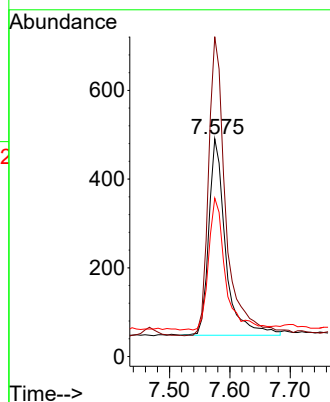
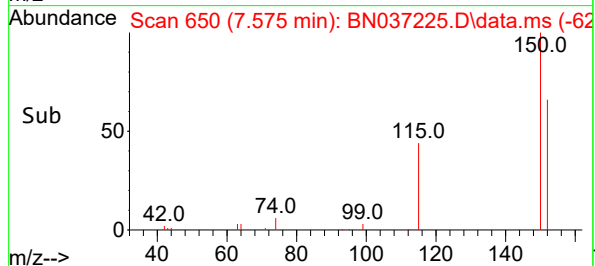
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 859
Ion Ratio Lower Upper
152 100
150 146.8 125.2 187.8
115 72.7 58.4 87.6

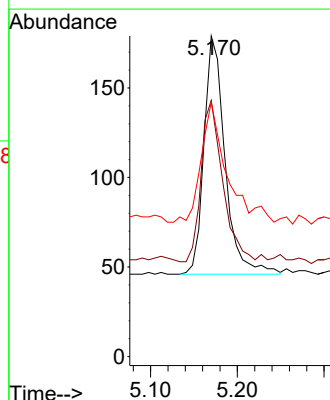
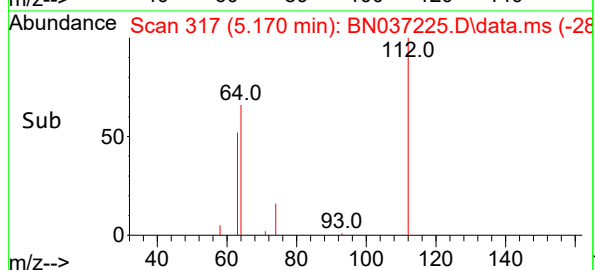
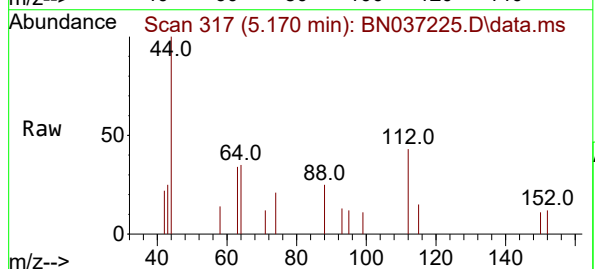
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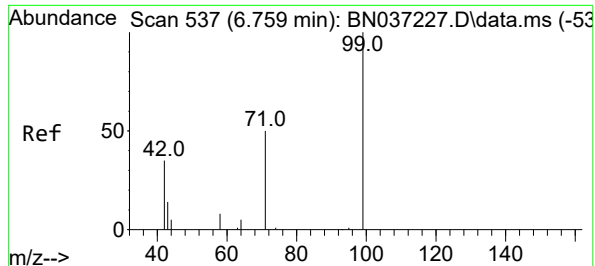
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

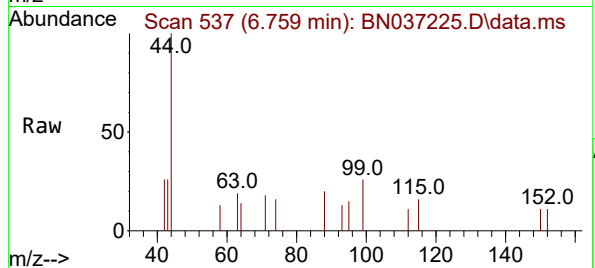
Tgt Ion:112 Resp: 224
Ion Ratio Lower Upper
112 100
64 69.2 57.2 85.8
63 65.6 39.8 59.6#





#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

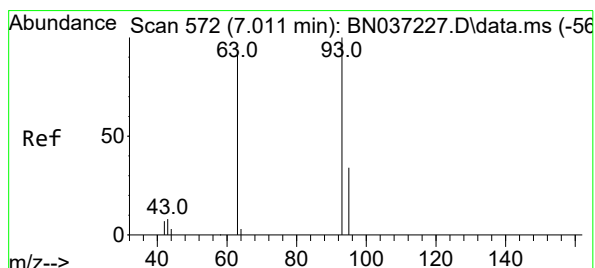
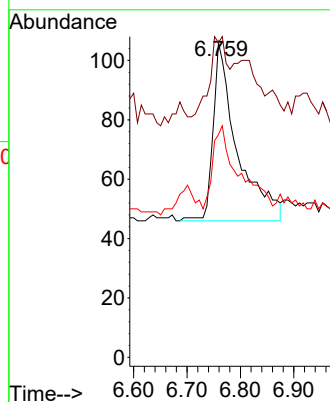
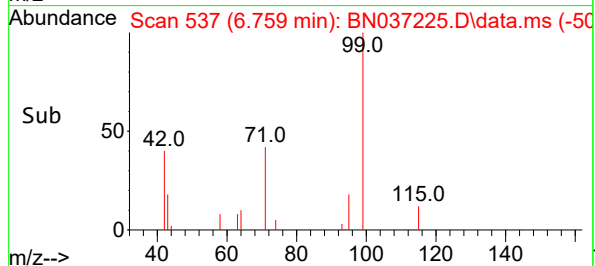
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 33.0 36.2 54.4
71 51.1 42.4 63.6

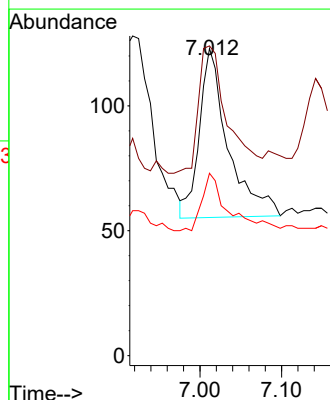
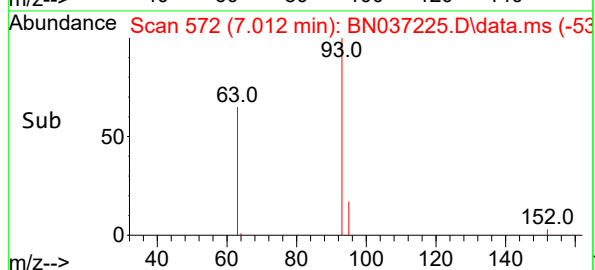
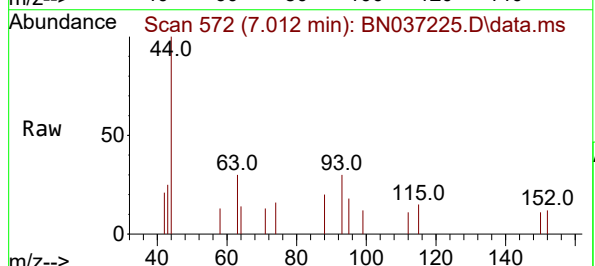
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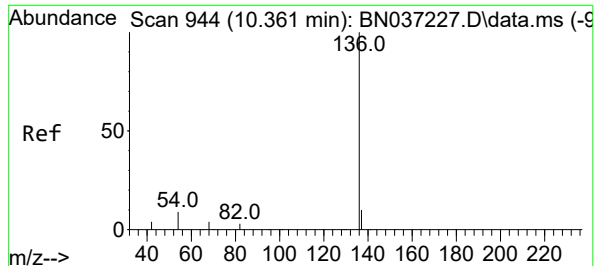
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

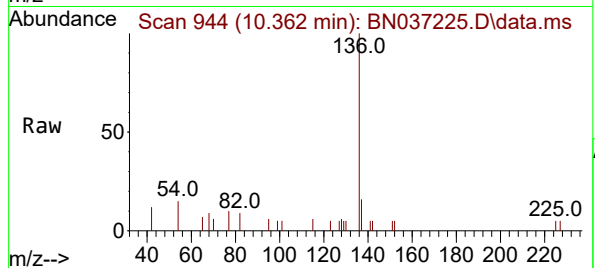
Tgt Ion: 93 Resp: 165
Ion Ratio Lower Upper
93 100
63 76.4 75.2 112.8
95 30.9 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

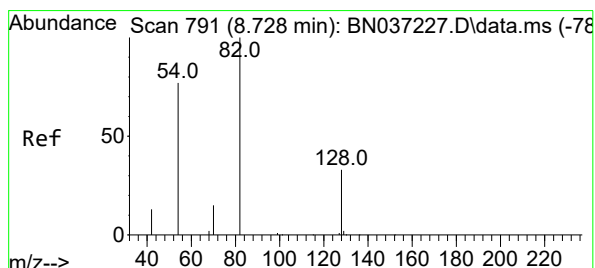
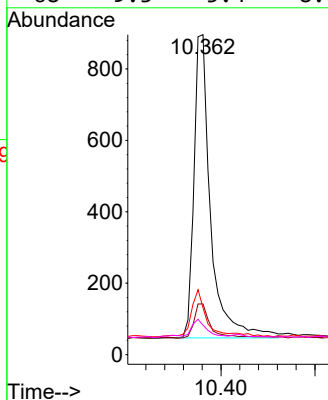
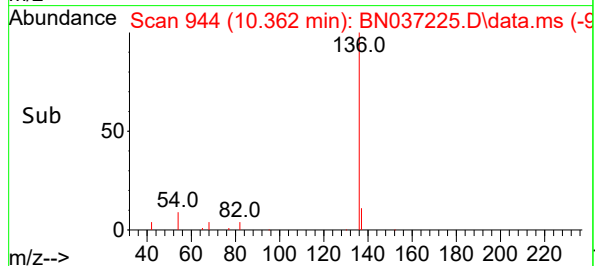
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:136 Resp: 209
Ion Ratio Lower Upper
136 100
137 15.8 10.6 15.8
54 14.6 9.2 13.8
68 9.3 5.4 8.0#

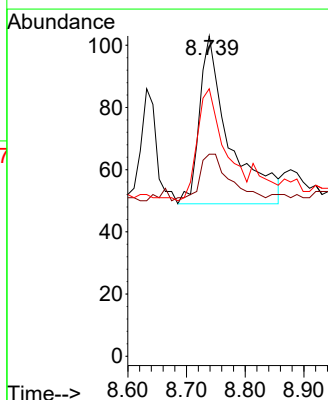
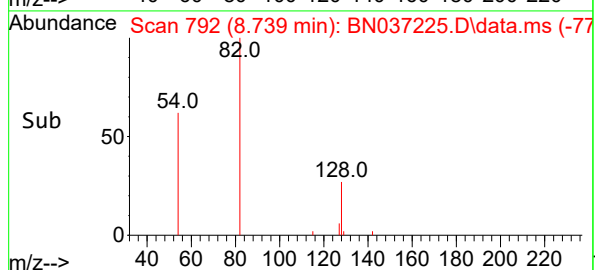
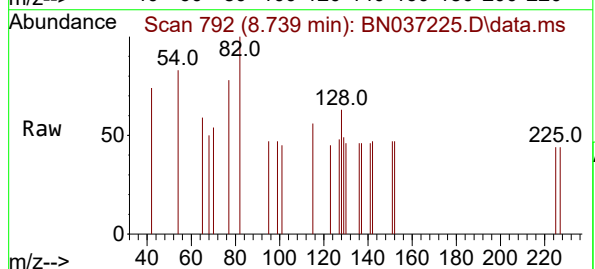
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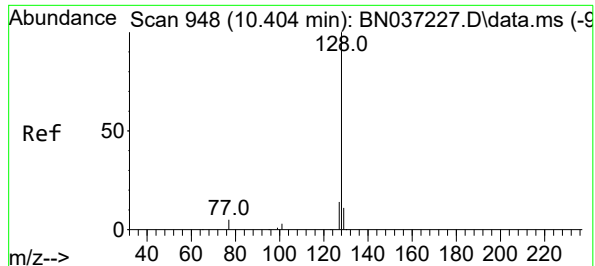
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192
Ion Ratio Lower Upper
82 100
128 63.1 31.2 46.8#
54 83.5 63.3 94.9





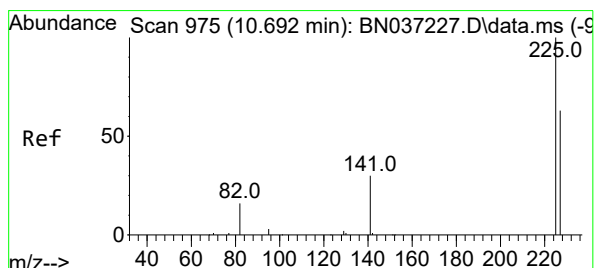
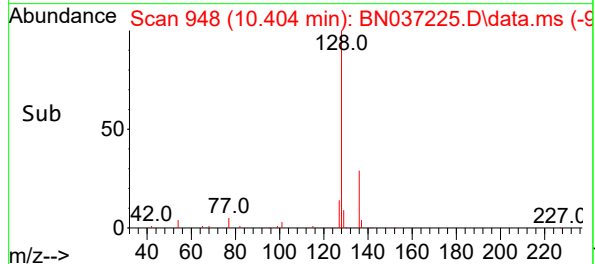
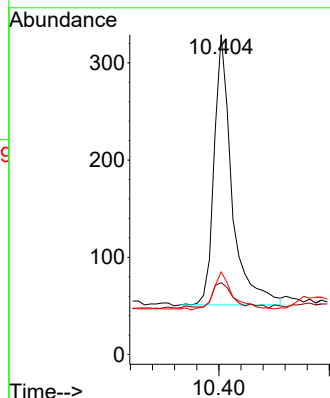
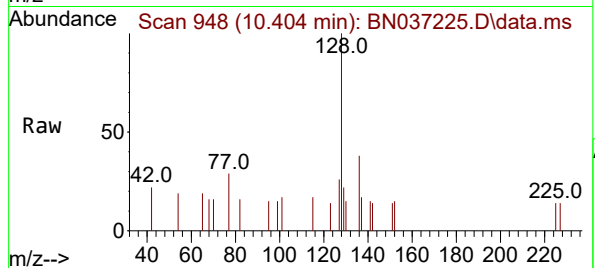
#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 62.0
Ion Ratio Lower Upper
128 100
129 22.5 10.7 16.1
127 25.8 12.6 19.0

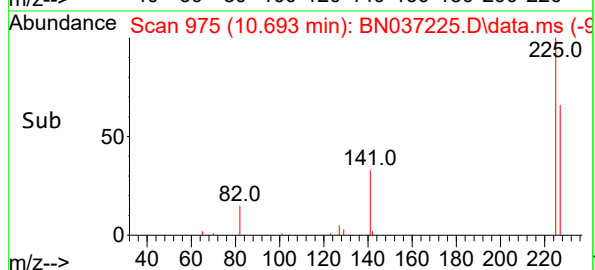
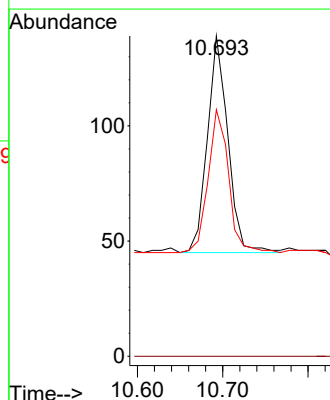
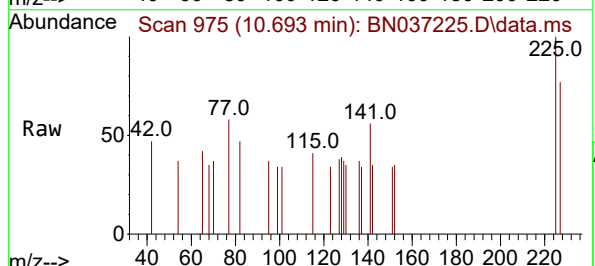
Manual Integrations
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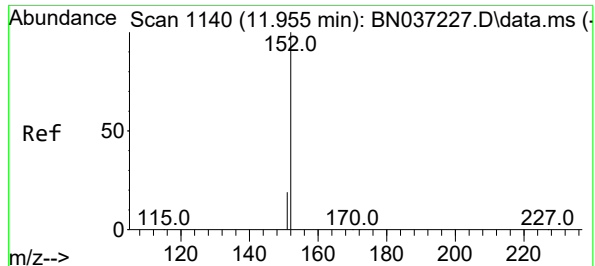
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

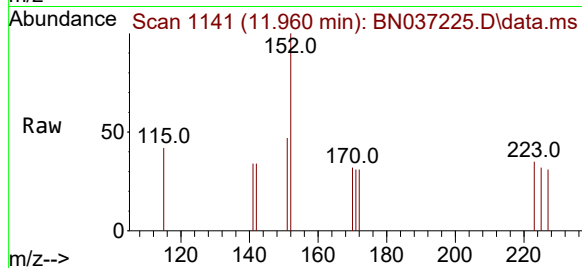
Tgt Ion:225 Resp: 157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

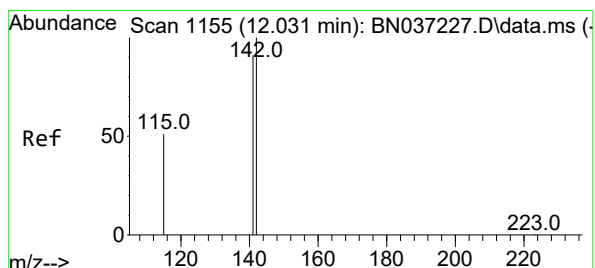
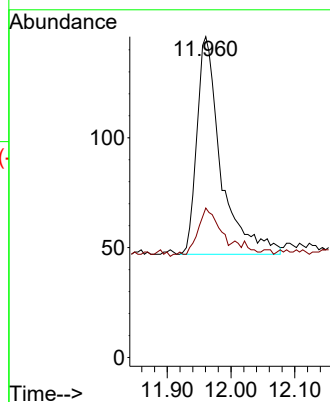
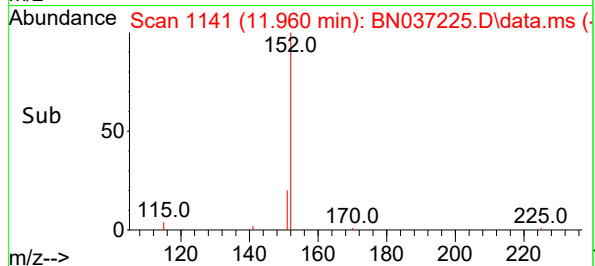
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BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 260
Ion Ratio Lower Upper
152 100
151 20.8 17.9 26.9

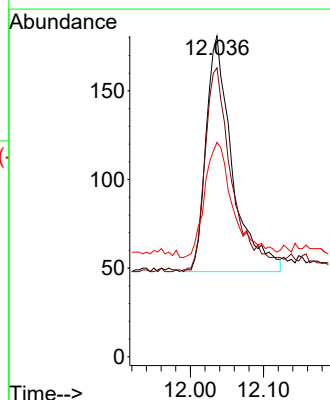
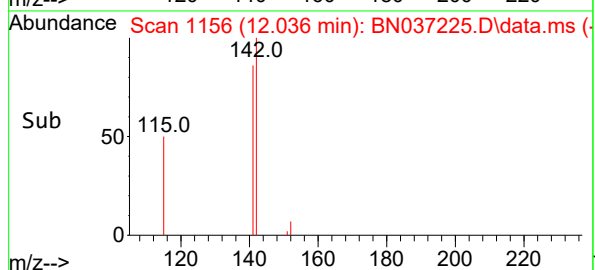
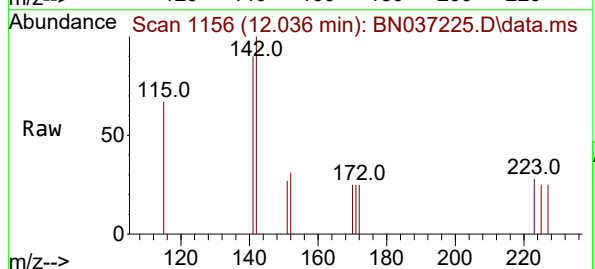
Manual Integrations
APPROVED

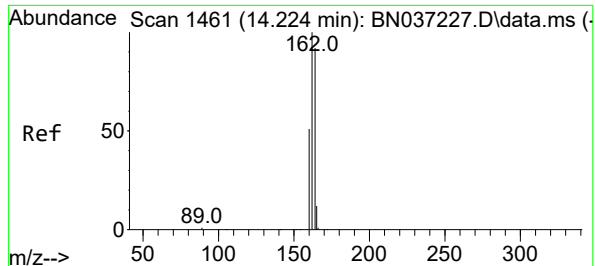
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

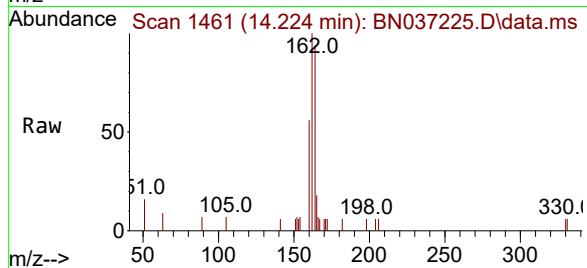
Tgt Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
141 90.1 73.0 109.6
115 66.9 43.3 64.9#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

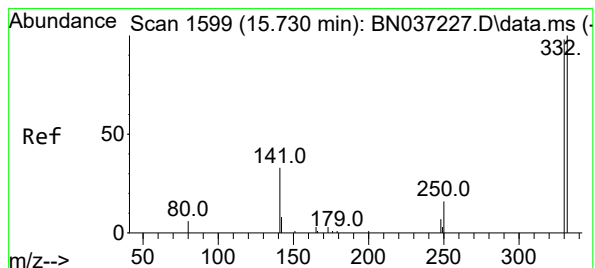
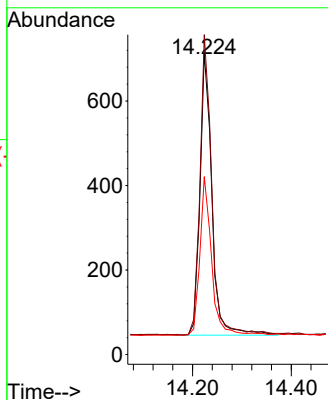
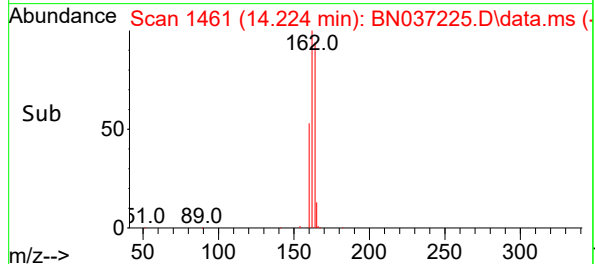
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



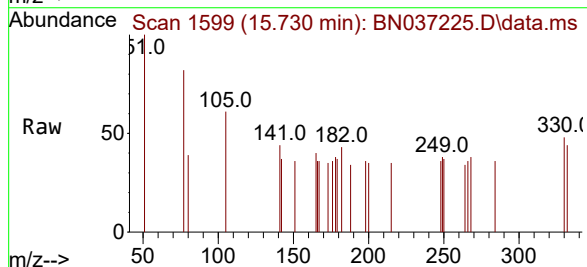
Tgt Ion:164 Resp: 1114
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 59.0 45.8 68.6

Manual Integrations
APPROVED

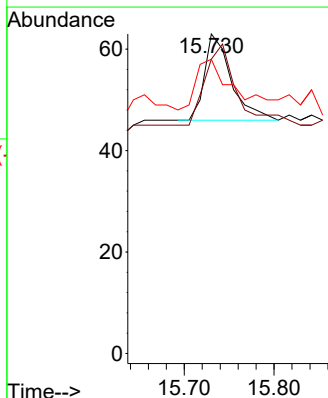
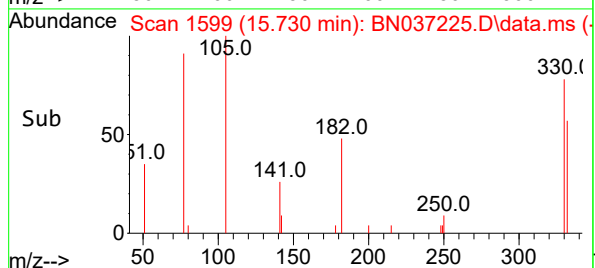
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

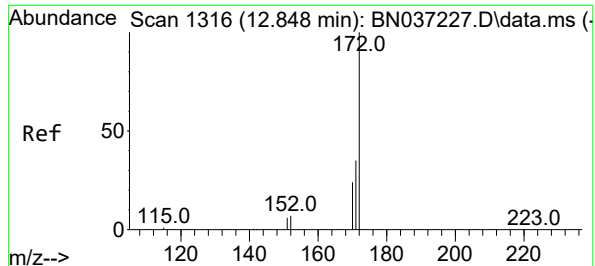


#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



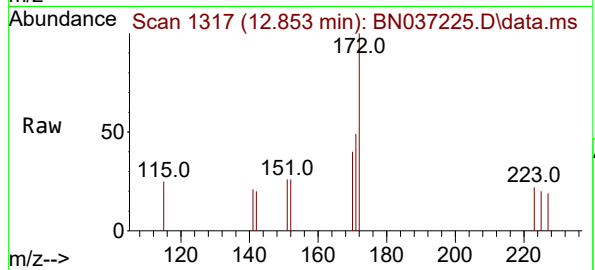
Tgt Ion:330 Resp: 35
Ion Ratio Lower Upper
330 100
332 111.4 74.9 112.3
141 82.9 45.1 67.7#





#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

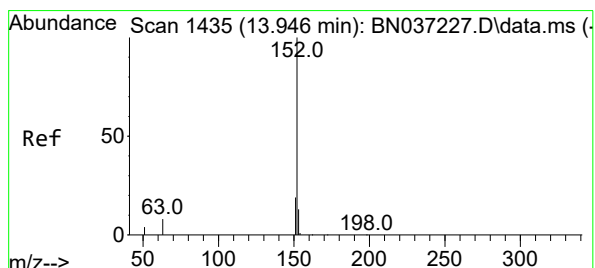
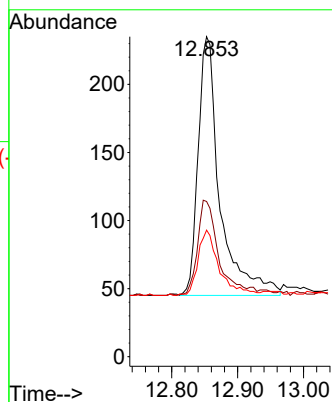
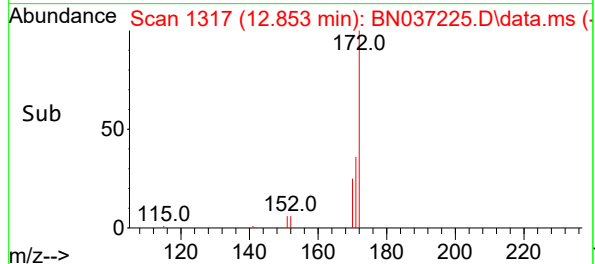
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 430
Ion Ratio Lower Upper
172 100
171 48.5 29.8 44.8
170 39.6 21.1 31.7

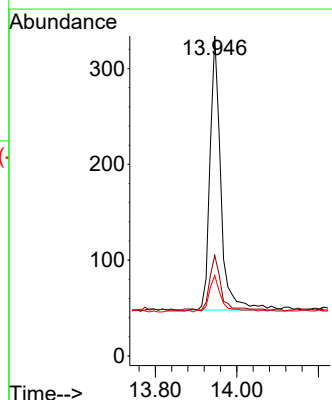
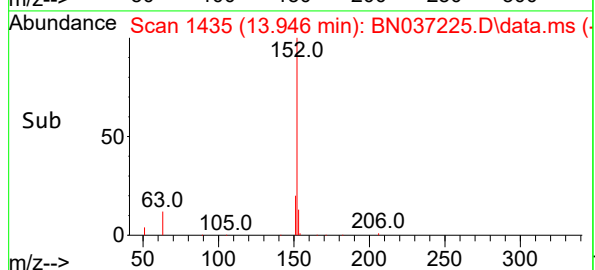
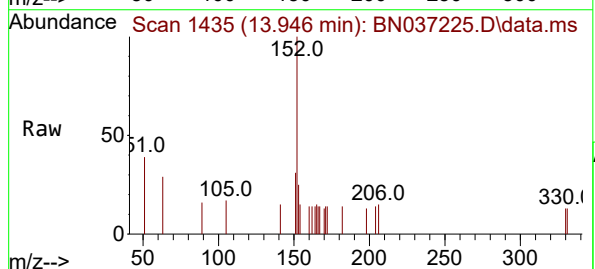
Manual Integrations
APPROVED

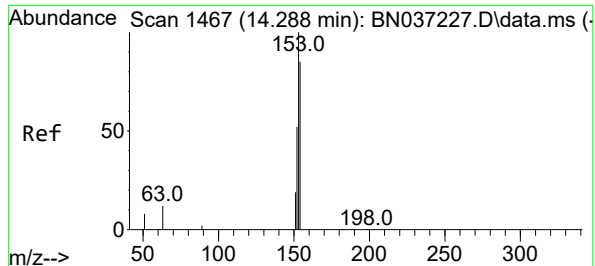
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

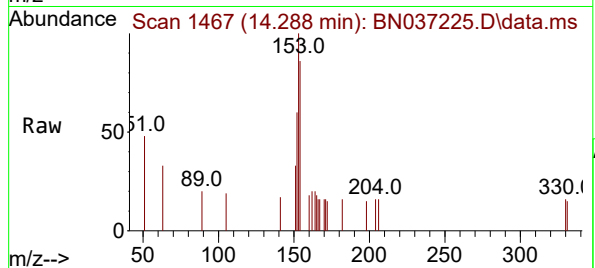
Tgt Ion:152 Resp: 531
Ion Ratio Lower Upper
152 100
151 22.4 15.7 23.5
153 14.9 10.7 16.1





#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

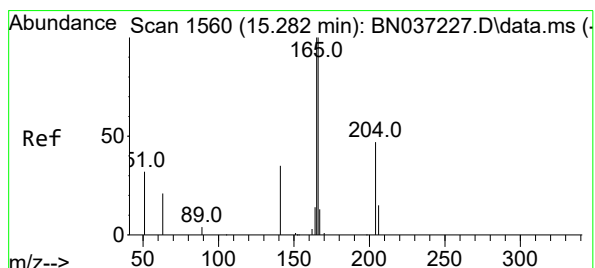
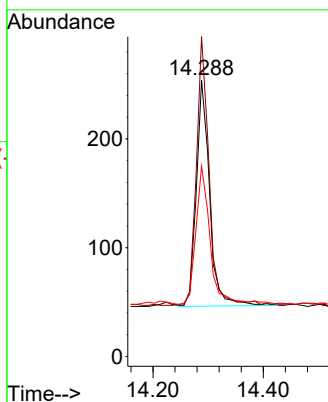
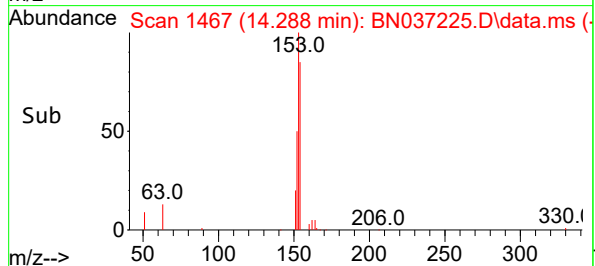
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:154 Resp: 340
Ion Ratio Lower Upper
154 100
153 114.5 94.6 141.8
152 65.9 49.6 74.4

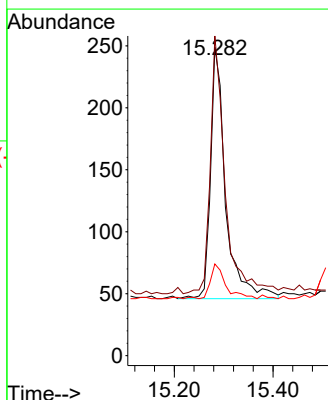
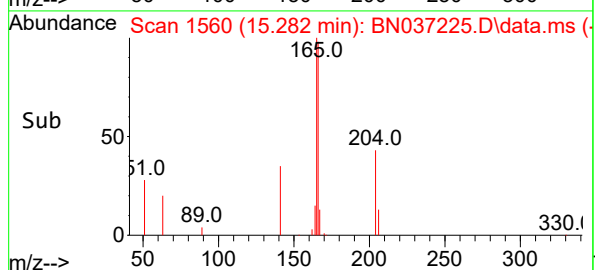
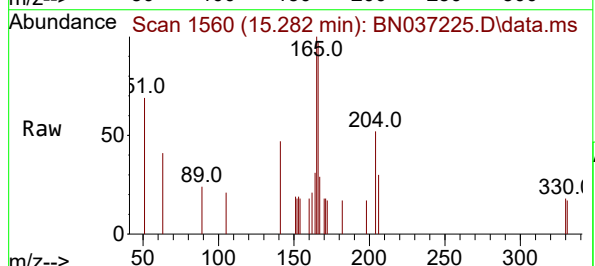
Manual Integrations
APPROVED

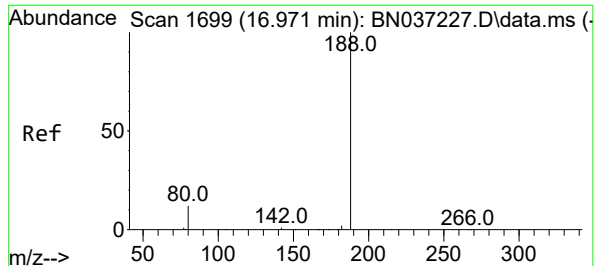
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 14.0 10.8 16.2





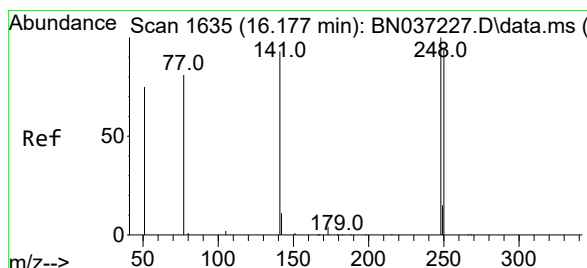
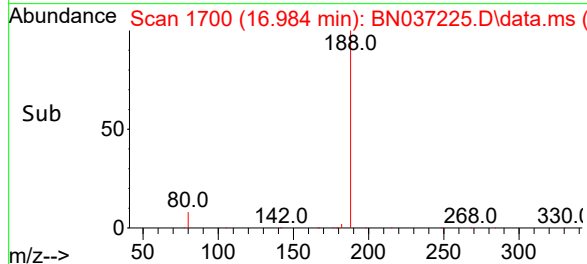
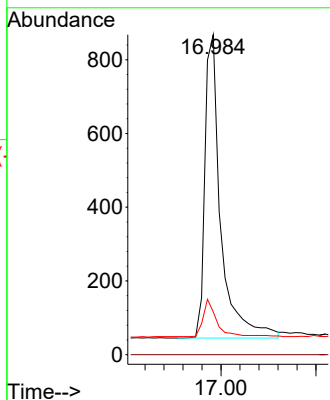
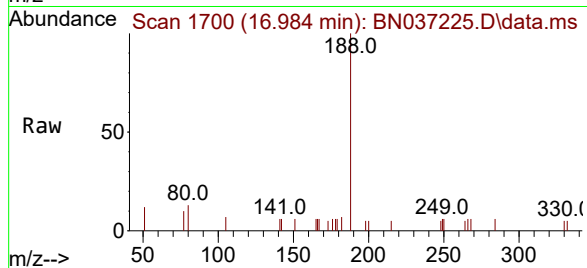
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 1910
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 12.2 18.4

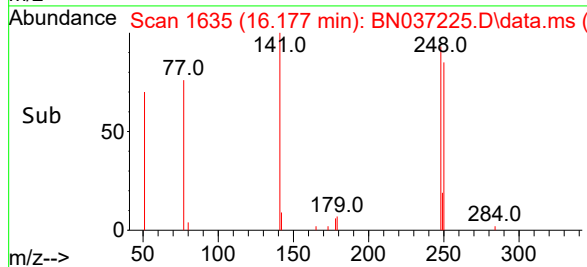
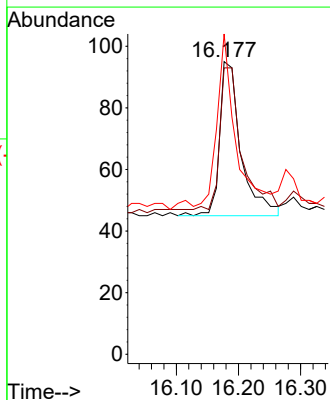
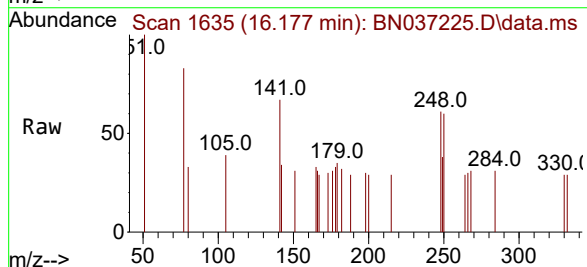
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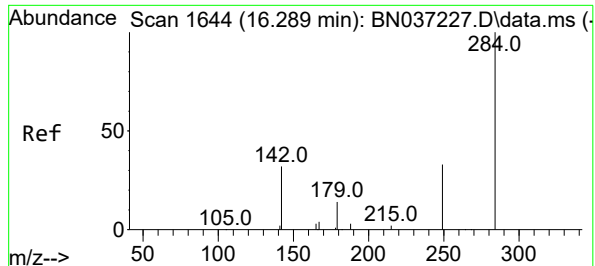
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:248 Resp: 119
Ion Ratio Lower Upper
248 100
250 97.9 76.8 115.2
141 109.5 75.6 113.4





#22

Hexachlorobenzene

Concen: 0.113 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

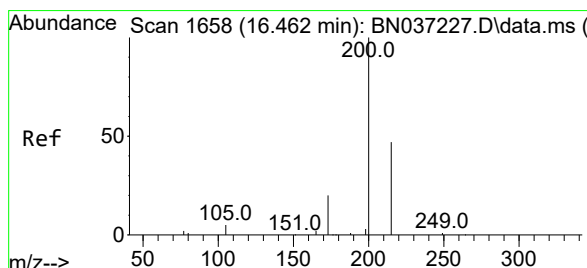
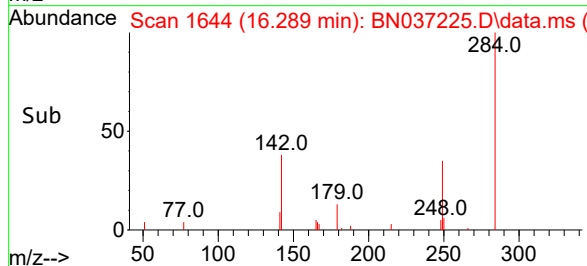
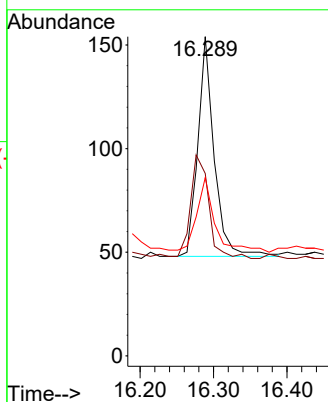
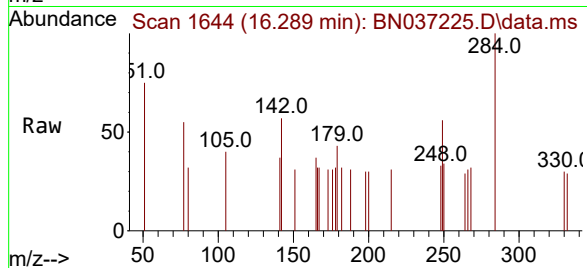
SSTDICC0.1

Tgt Ion:	284	Resp:	164
Ion Ratio	Lower	Upper	
284	100		
142	52.4	43.8	65.6
249	38.4	28.4	42.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#23

Atrazine

Concen: 0.096 ng

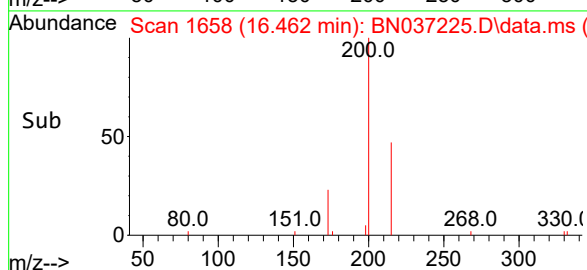
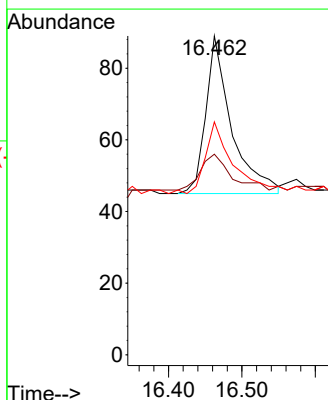
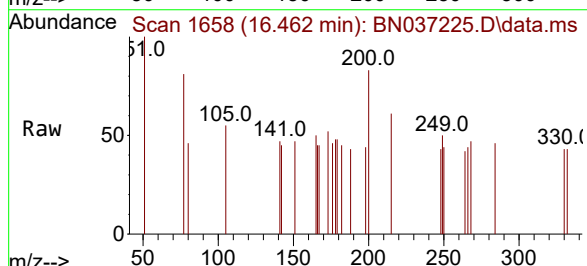
RT: 16.462 min Scan# 1658

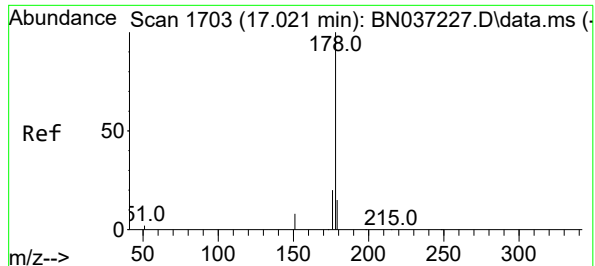
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	200	Resp:	107
Ion Ratio	Lower	Upper	
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#





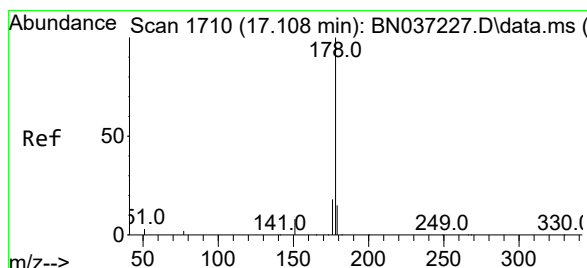
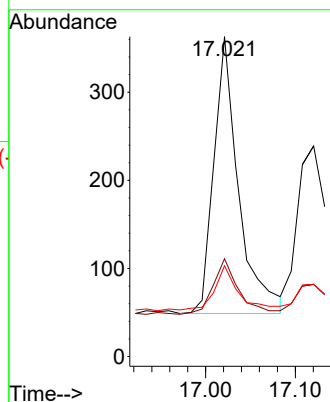
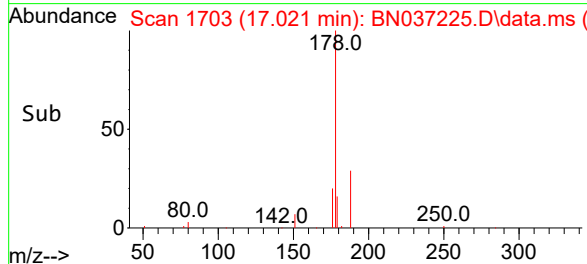
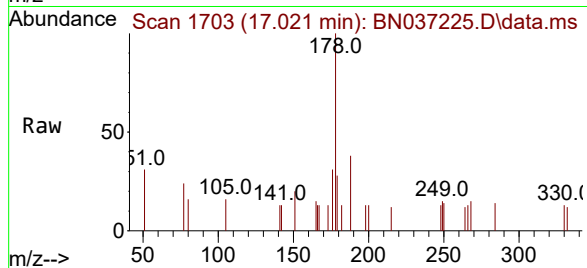
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 600
Ion Ratio Lower Upper
178 100
176 20.3 16.3 24.5
179 15.8 12.6 18.8

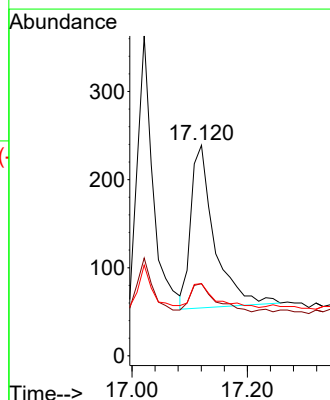
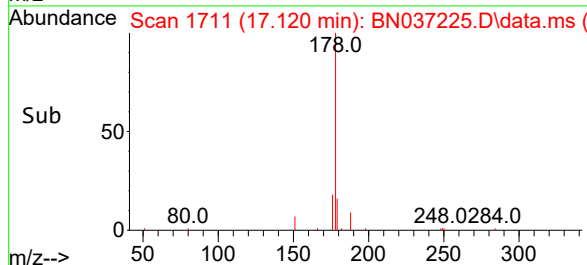
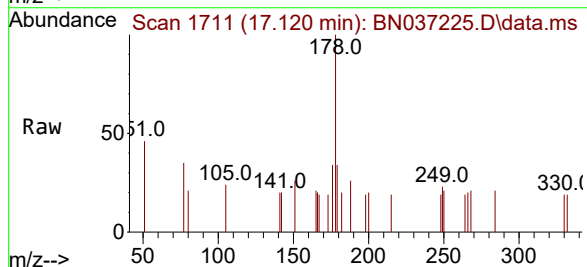
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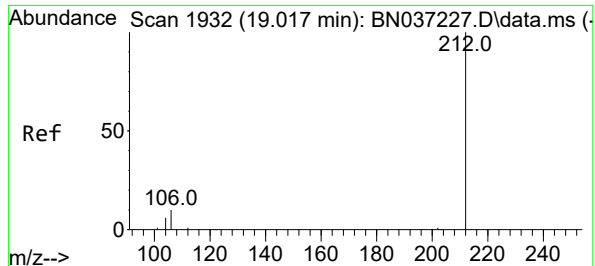
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

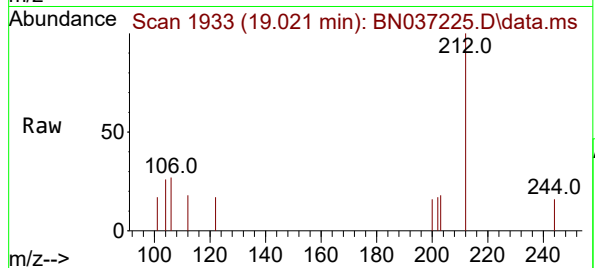
Tgt Ion:178 Resp: 524
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.1 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1933
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

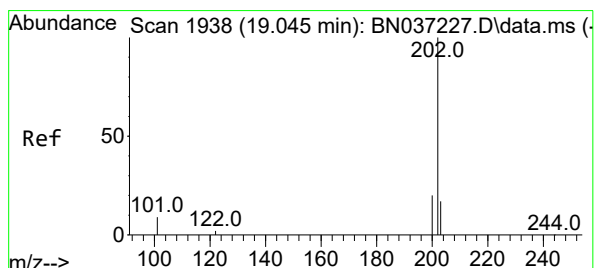
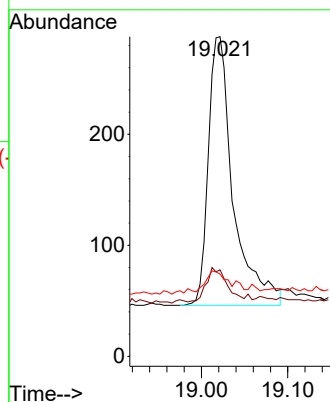
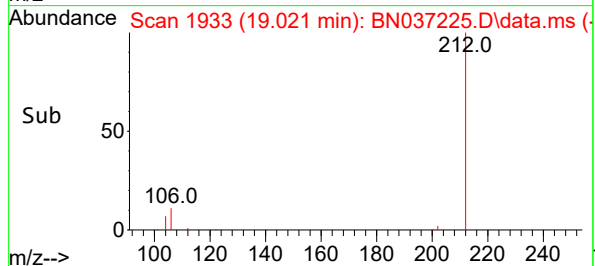
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:212 Resp: 480
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 9.7 5.7 8.5

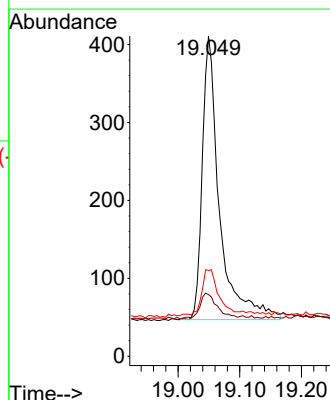
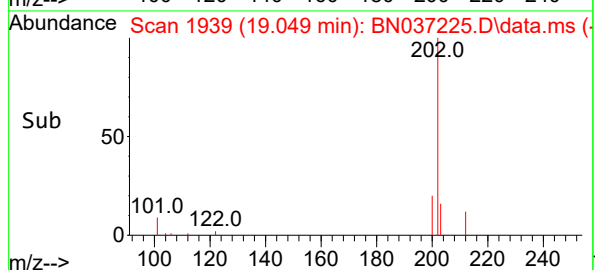
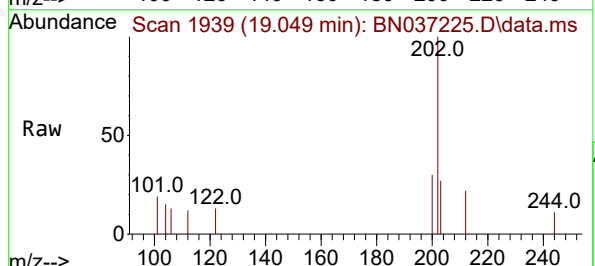
Manual Integrations
APPROVED

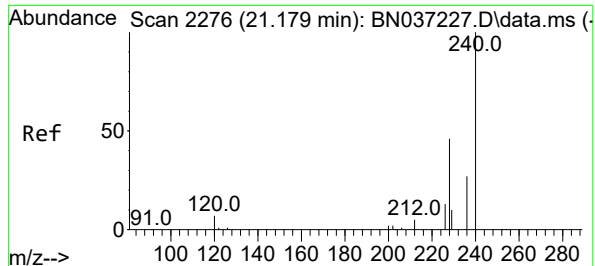
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704
Ion Ratio Lower Upper
202 100
101 9.1 7.1 10.7
203 15.9 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

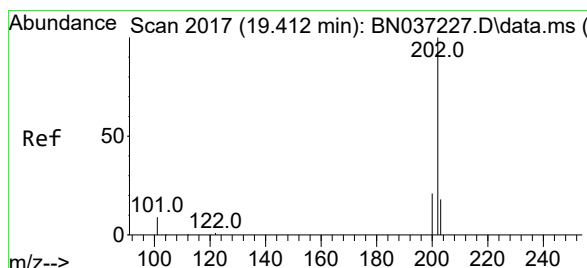
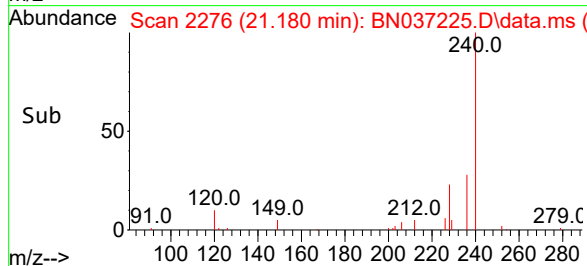
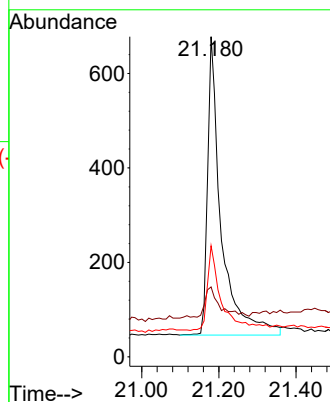
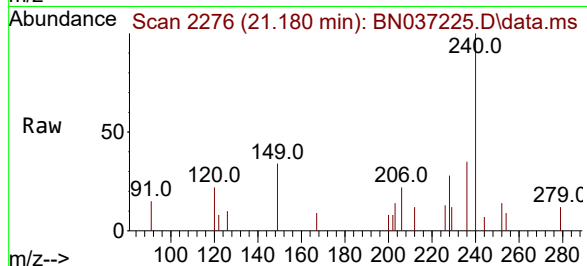
SSTDICC0.1

Tgt Ion:240 Resp: 1540
Ion Ratio Lower Upper
240 100
120 21.8 11.3 16.9
236 34.7 24.4 36.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

Concen: 0.098 ng

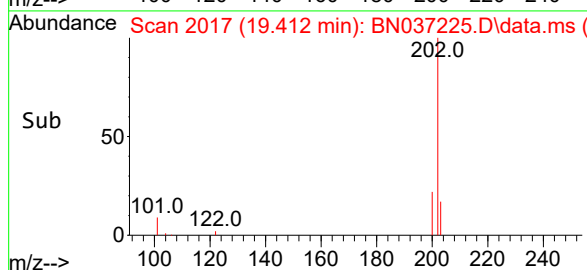
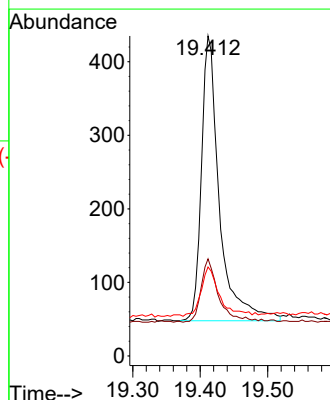
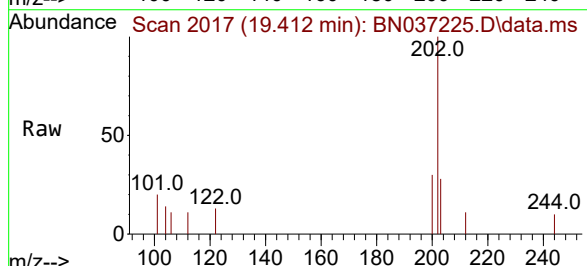
RT: 19.412 min Scan# 2017

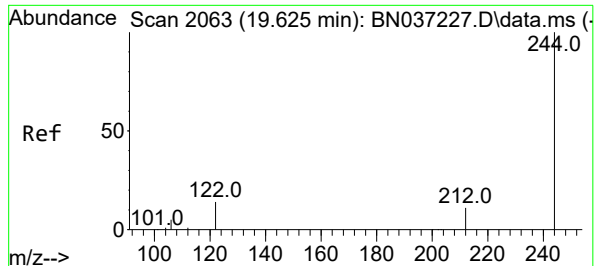
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 715
Ion Ratio Lower Upper
202 100
200 21.8 17.2 25.8
203 18.0 14.3 21.5





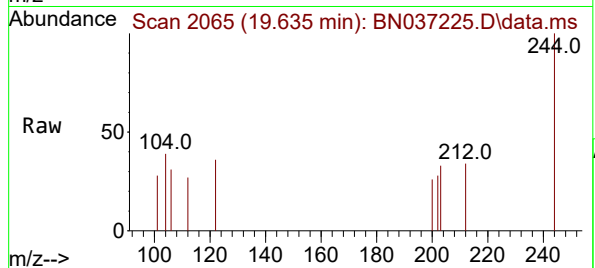
#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2065
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

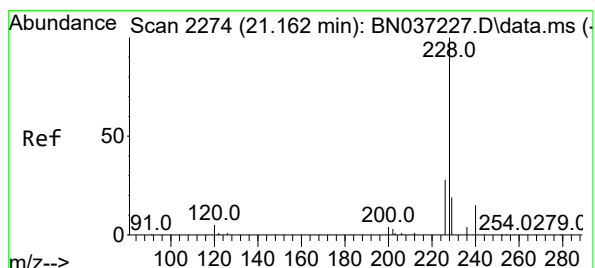
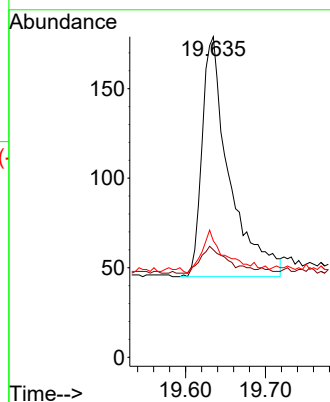


Tgt Ion:244 Resp: 315
Ion Ratio Lower Upper
244 100
212 33.5 12.2 18.2
122 36.3 14.3 21.5

Manual Integrations

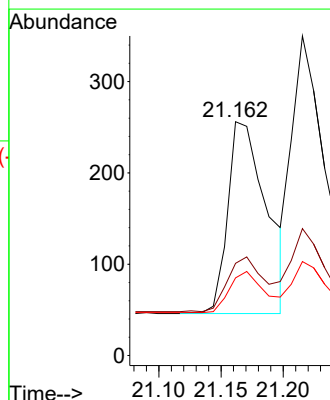
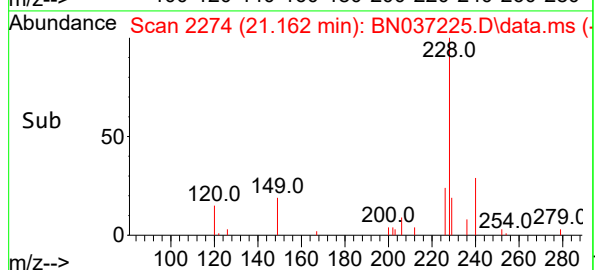
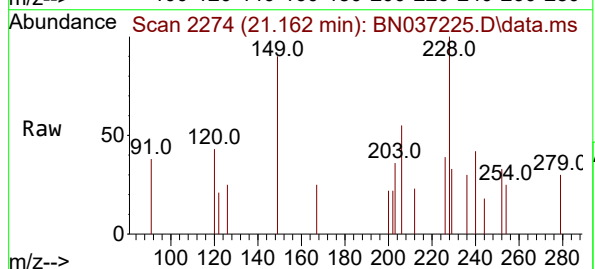
APPROVED

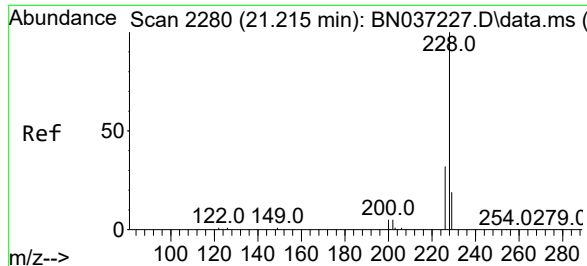
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

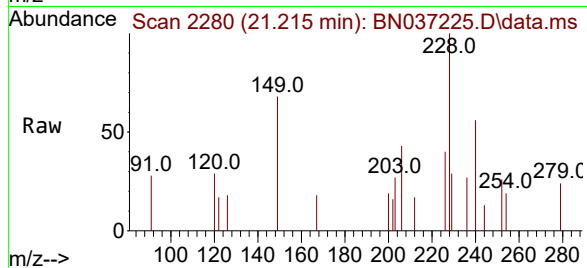
Tgt Ion:228 Resp: 454
Ion Ratio Lower Upper
228 100
226 39.5 23.8 35.8#
229 33.2 17.0 25.4#





#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

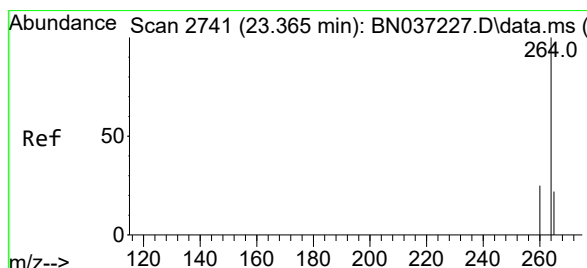
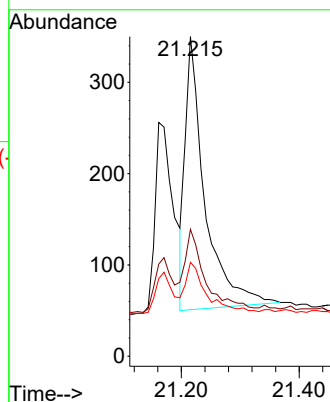
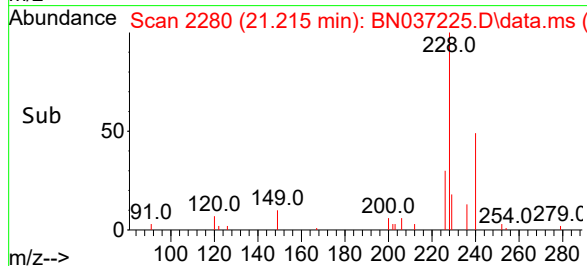
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 689
Ion Ratio Lower Upper
228 100
226 39.7 25.8 38.6
229 29.4 17.0 25.4

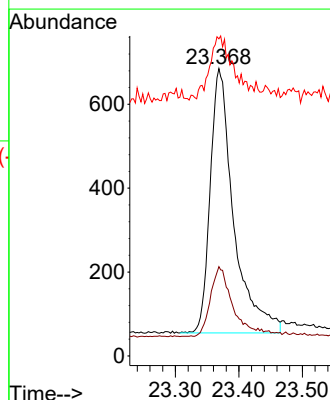
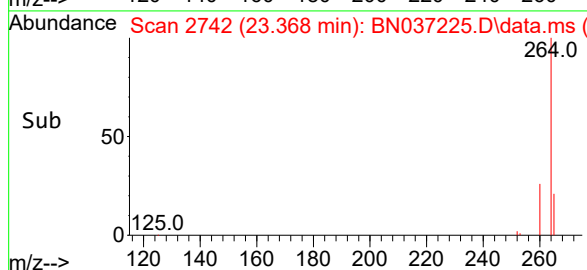
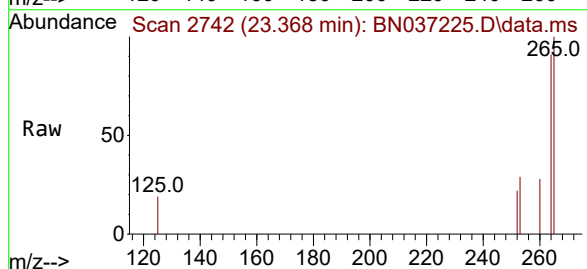
Manual Integrations
APPROVED

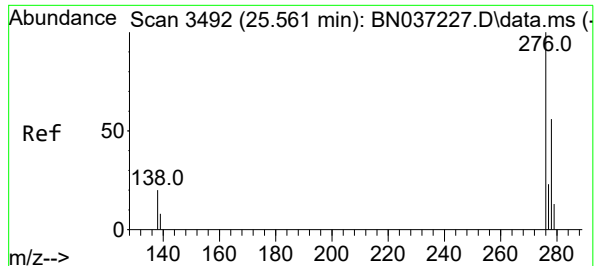
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 2742
Delta R.T. 0.003 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

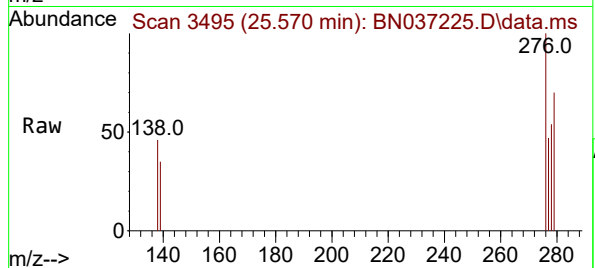
Tgt Ion:264 Resp: 1617
Ion Ratio Lower Upper
264 100
260 31.1 22.8 34.2
265 110.4 66.4 99.6





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3492
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

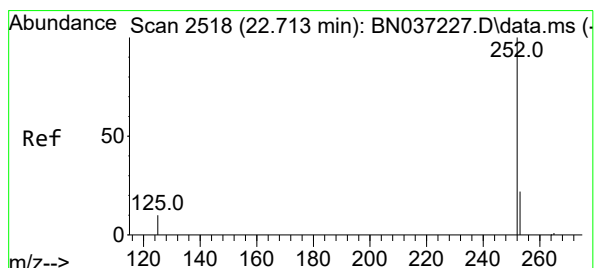
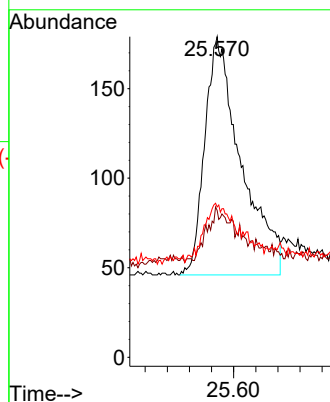
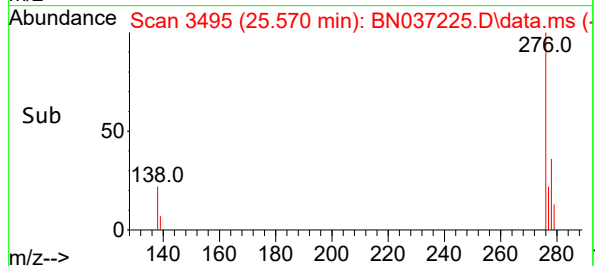
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 609
Ion Ratio Lower Upper
276 100
138 1.3 16.8 25.2#
277 18.6 19.5 29.3#

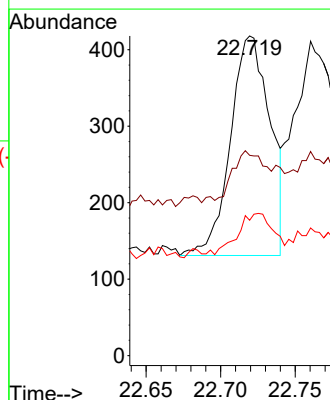
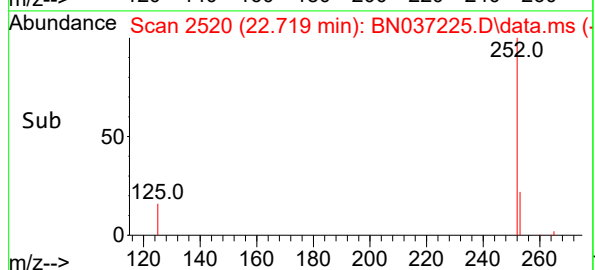
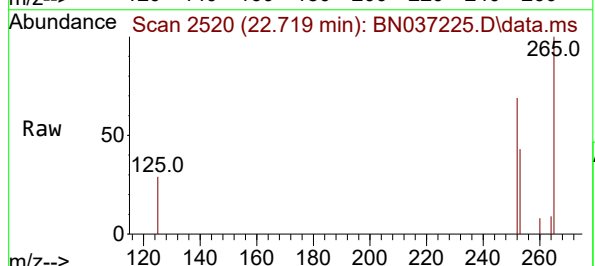
Manual Integrations
APPROVED

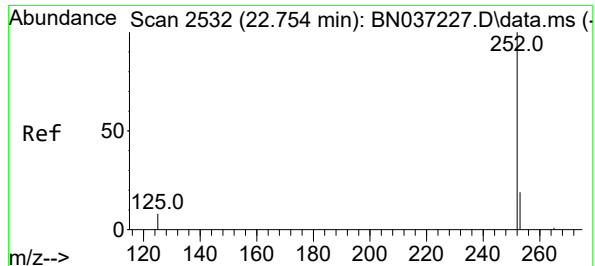
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2520
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

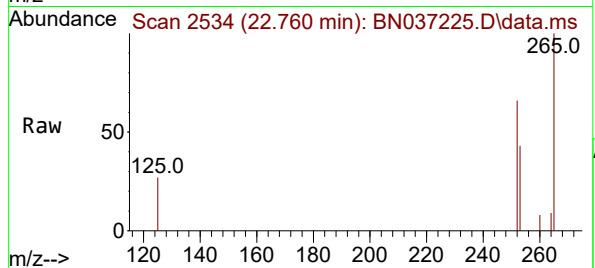
Tgt Ion:252 Resp: 529
Ion Ratio Lower Upper
252 100
253 62.7 24.9 37.3#
125 42.3 12.9 19.3#





#38
Benzo(k)fluoranthene
Concen: 0.109 ng m
RT: 22.760 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

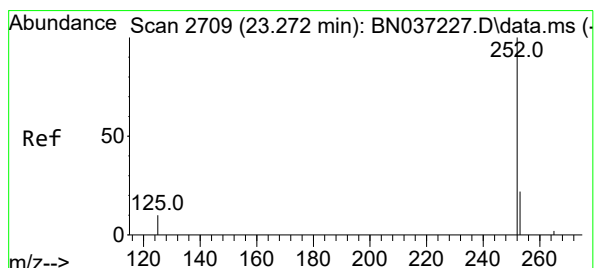
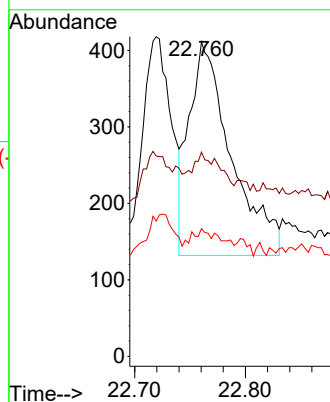
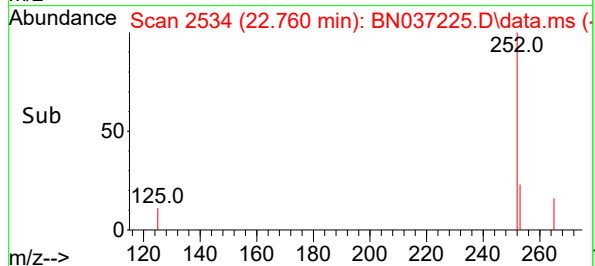
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:252 Resp: 742
Ion Ratio Lower Upper
252 100
253 65.0 24.6 37.0#
125 40.6 13.4 20.2#

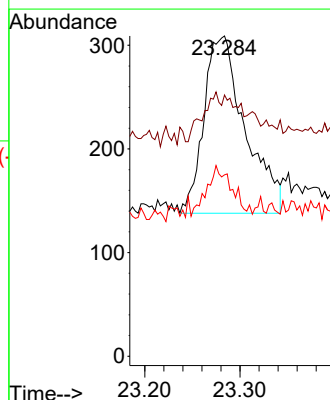
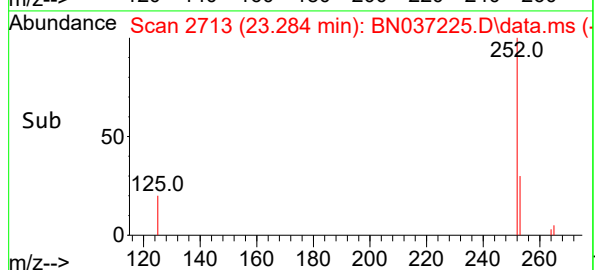
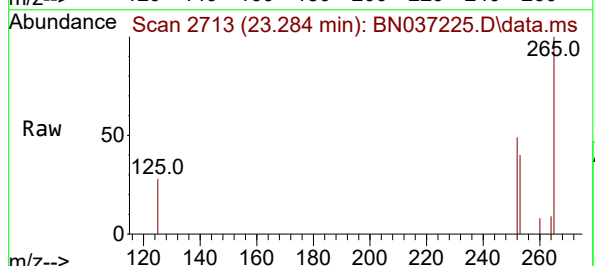
Manual Integrations
APPROVED

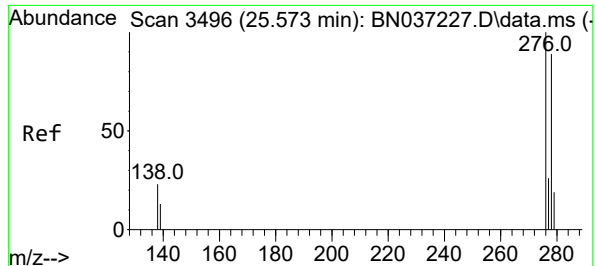
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.284 min Scan# 2713
Delta R.T. 0.012 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 514
Ion Ratio Lower Upper
252 100
253 81.6 29.4 44.2#
125 56.6 16.2 24.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng m

RT: 25.590 min Scan# 3

Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:278 Resp: 44

Ion Ratio Lower Upper

278 100

139 48.9 17.8 26.6

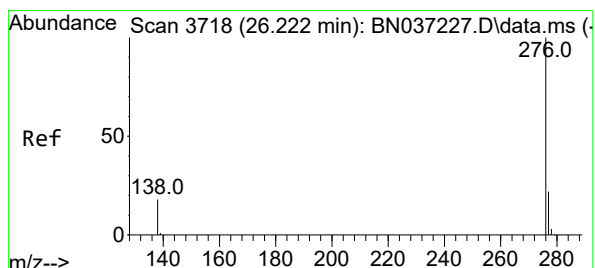
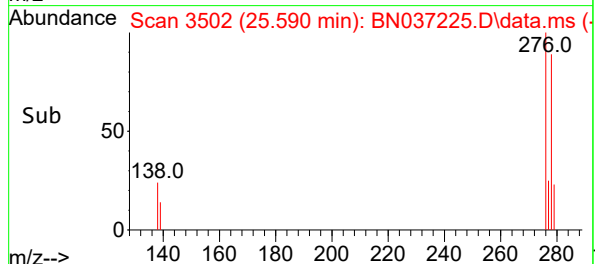
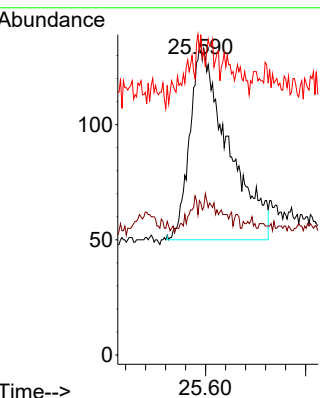
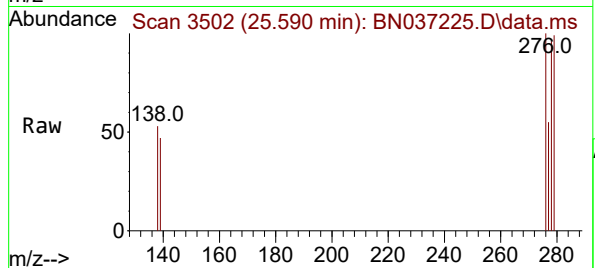
279 103.0 31.3 46.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

RT: 26.228 min Scan# 3720

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

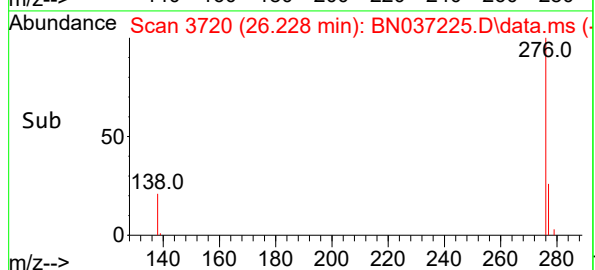
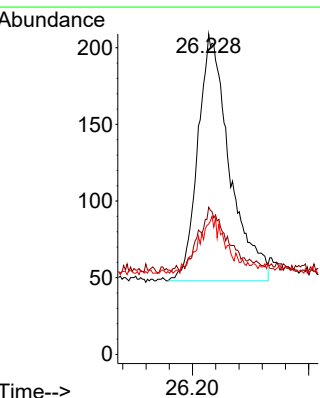
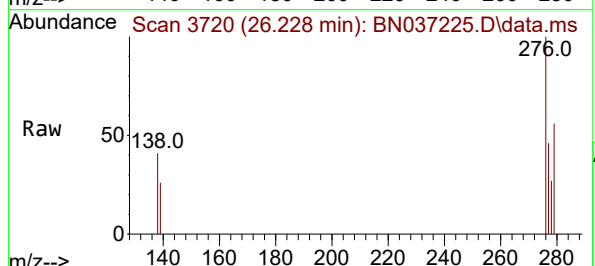
Tgt Ion:276 Resp: 608

Ion Ratio Lower Upper

276 100

277 45.9 22.0 33.0#

138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037226.D
 Acq On : 13 Jun 2025 14:10
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

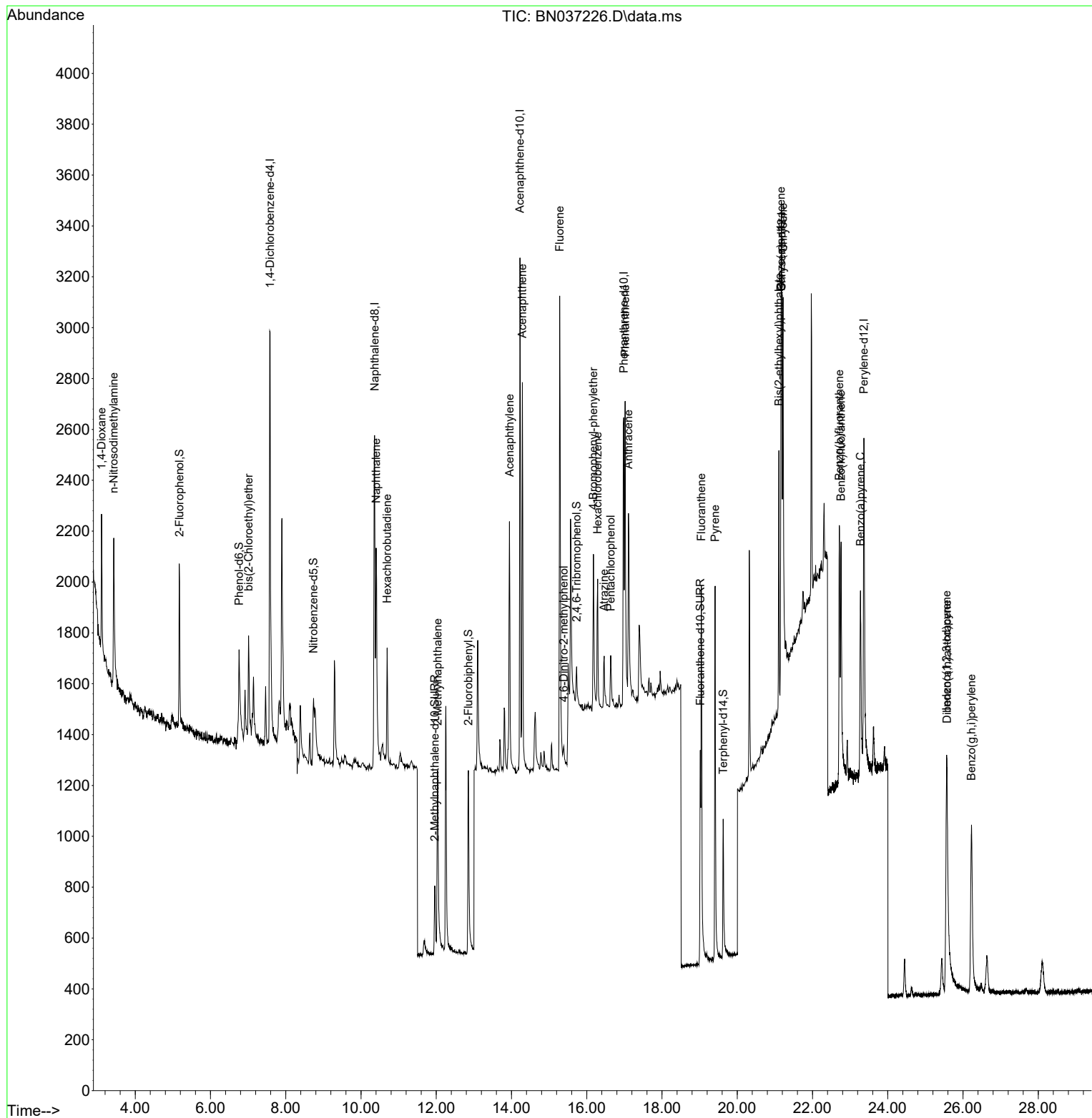
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	914	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2268	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1246	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2198	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	1908	0.400	ng	0.00
35) Perylene-d12	23.365	264	2012	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	469	0.209	ng	0.00
5) Phenol-d6	6.759	99	428	0.181	ng	0.00
8) Nitrobenzene-d5	8.739	82	345	0.154	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	571	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	91	0.176	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	953	0.182	ng	0.00
27) Fluoranthene-d10	19.017	212	1179	0.205	ng	0.00
31) Terphenyl-d14	19.625	244	806	0.187	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	312	0.249	ng	92
3) n-Nitrosodimethylamine	3.429	42	620	0.217	ng	# 95
6) bis(2-Chloroethyl)ether	7.011	93	324	0.153	ng	95
9) Naphthalene	10.404	128	1307	0.199	ng	# 88
10) Hexachlorobutadiene	10.692	225	329	0.206	ng	# 94
12) 2-Methylnaphthalene	12.036	142	719	0.180	ng	92
16) Acenaphthylene	13.946	152	1165	0.191	ng	98
17) Acenaphthene	14.288	154	753	0.191	ng	98
18) Fluorene	15.282	166	940	0.186	ng	98
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.257	ng	# 60
21) 4-Bromophenyl-phenylether	16.177	248	273	0.191	ng	98
22) Hexachlorobenzene	16.289	284	350	0.211	ng	99
23) Atrazine	16.462	200	252	0.197	ng	# 78
24) Pentachlorophenol	16.636	266	153	0.188	ng	90
25) Phenanthrene	17.021	178	1346	0.193	ng	99
26) Anthracene	17.108	178	1186	0.186	ng	98
28) Fluoranthene	19.045	202	1657	0.203	ng	97
30) Pyrene	19.412	202	1660	0.185	ng	99
32) Benzo(a)anthracene	21.162	228	1149	0.178	ng	93
33) Chrysene	21.215	228	1643	0.205	ng	94
34) Bis(2-ethylhexyl)phtha...	21.108	149	1053	0.219	ng	98
36) Indeno(1,2,3-cd)pyrene	25.564	276	1512	0.186	ng	97
37) Benzo(b)fluoranthene	22.713	252	1296	0.176	ng	# 85
38) Benzo(k)fluoranthene	22.757	252	1512	0.179	ng	# 81
39) Benzo(a)pyrene	23.275	252	1215	0.184	ng	# 71
40) Dibenzo(a,h)anthracene	25.576	278	1109	0.181	ng	# 76
41) Benzo(g,h,i)perylene	26.225	276	1469	0.195	ng	# 88

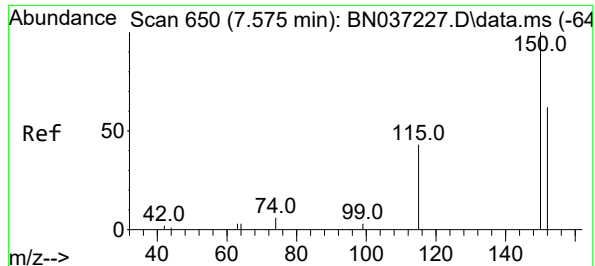
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037226.D
Acq On : 13 Jun 2025 14:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

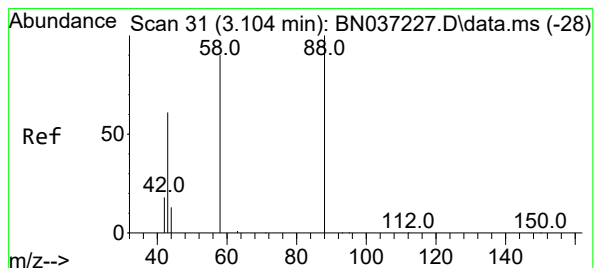
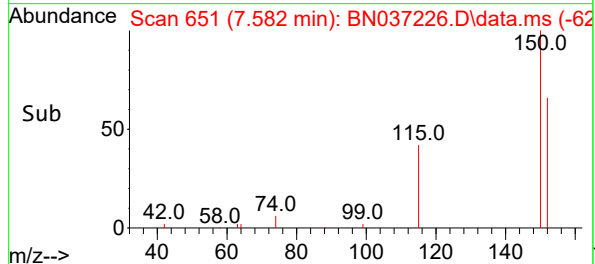
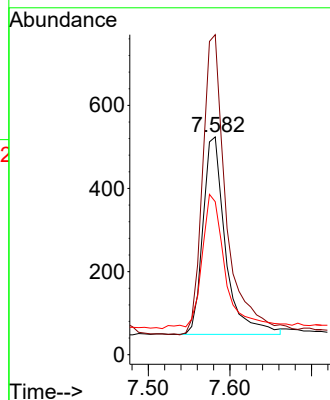
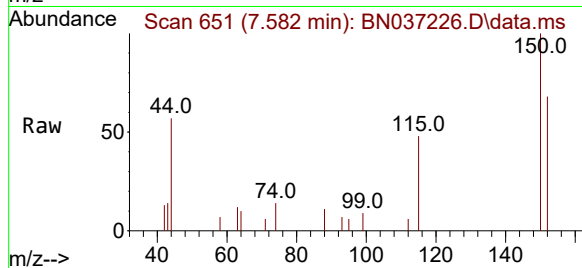




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

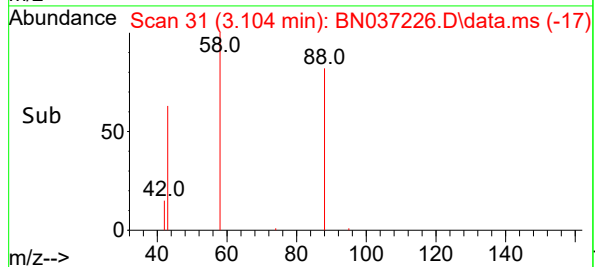
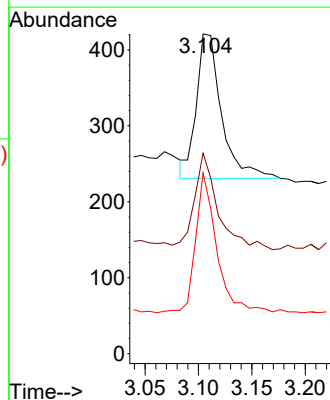
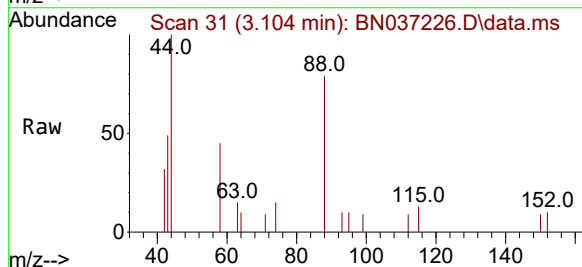
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

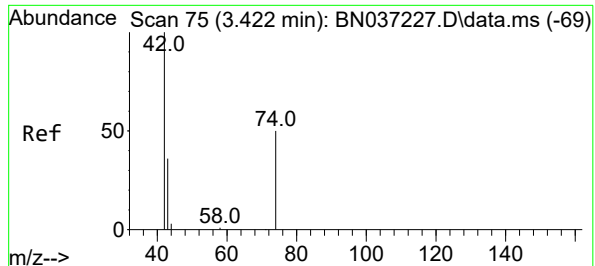
Tgt Ion:152 Resp: 914
Ion Ratio Lower Upper
152 100
150 146.9 125.2 187.8
115 70.2 58.4 87.6



#2
1,4-Dioxane
Concen: 0.249 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 88 Resp: 312
Ion Ratio Lower Upper
88 100
43 63.1 52.6 79.0
58 80.8 73.5 110.3

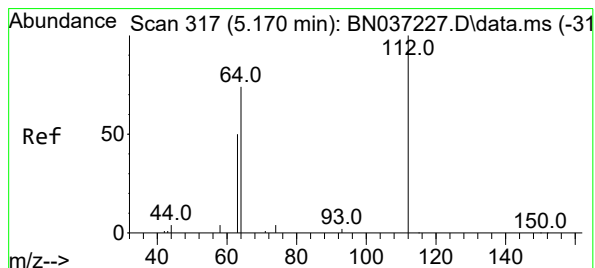
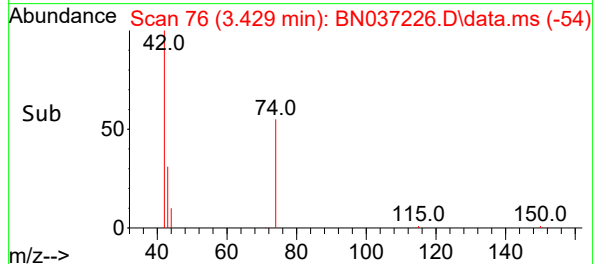
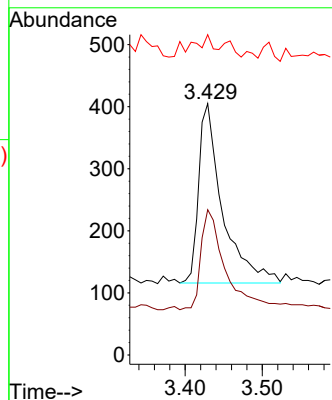
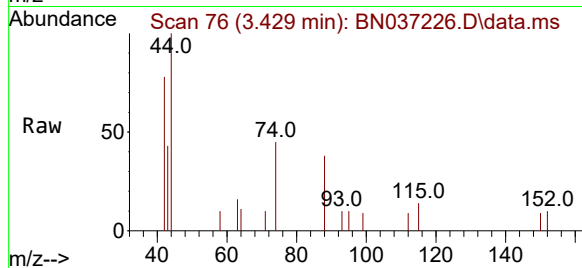




#3
n-Nitrosodimethylamine
Concen: 0.217 ng
RT: 3.429 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

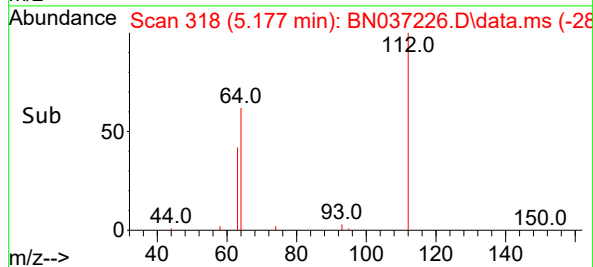
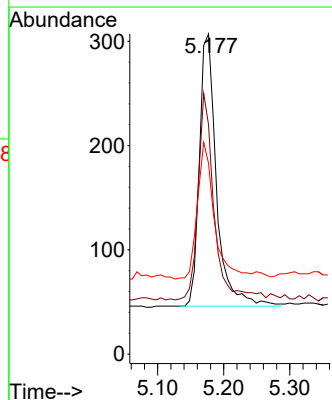
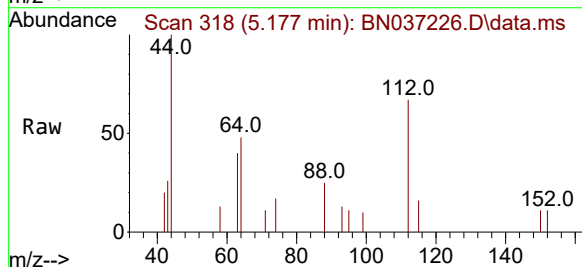
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

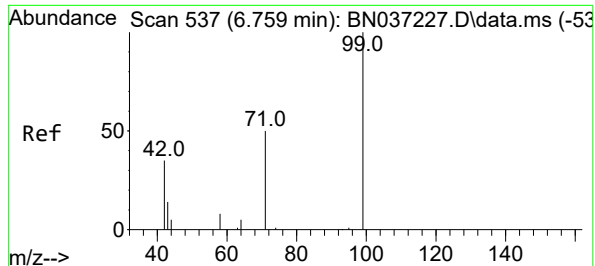
Tgt Ion: 42 Resp: 620
Ion Ratio Lower Upper
42 100
74 58.5 44.6 66.8
44 0.0 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 112 Resp: 469
Ion Ratio Lower Upper
112 100
64 71.4 57.2 85.8
63 49.9 39.8 59.6

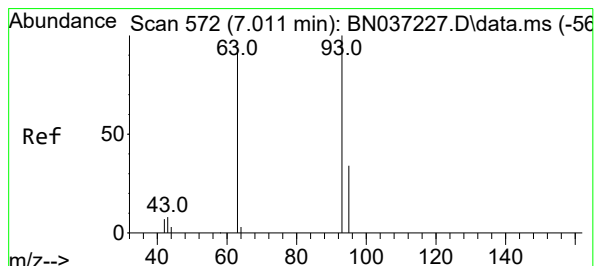
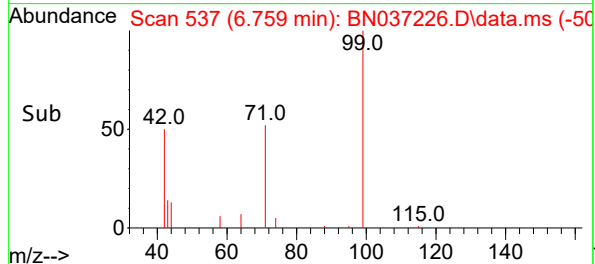
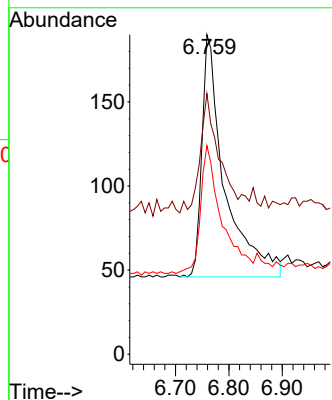
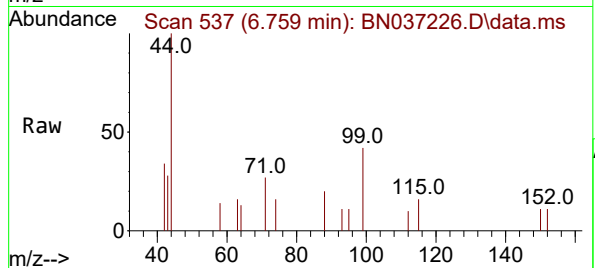




#5
Phenol-d6
Concen: 0.181 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

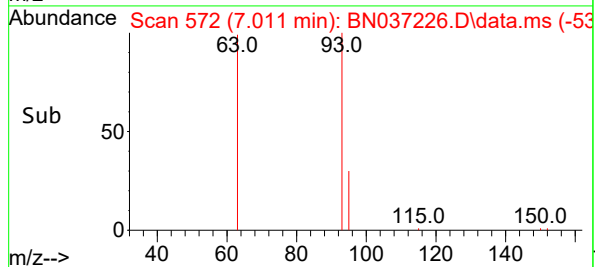
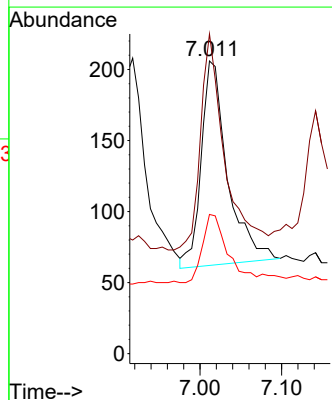
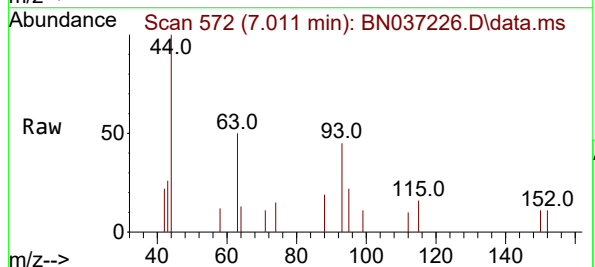
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

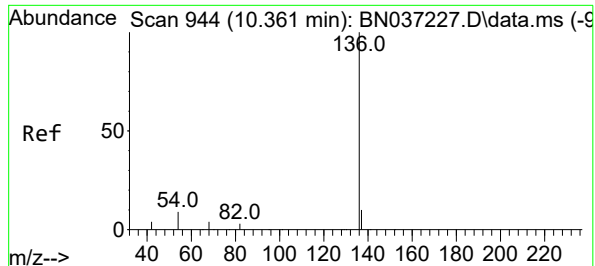
Tgt Ion: 99 Resp: 428
Ion Ratio Lower Upper
99 100
42 42.8 36.2 54.4
71 48.6 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.153 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 93 Resp: 324
Ion Ratio Lower Upper
93 100
63 98.1 75.2 112.8
95 31.5 28.3 42.5

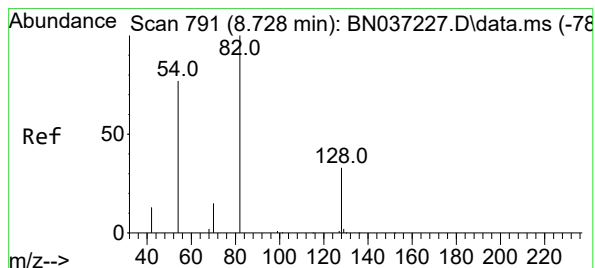
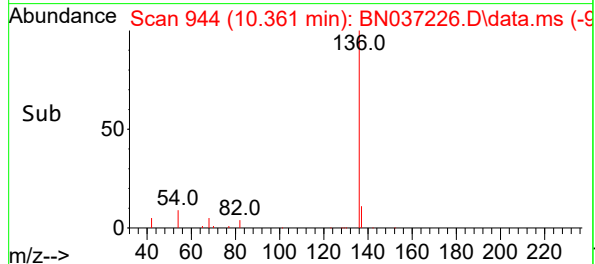
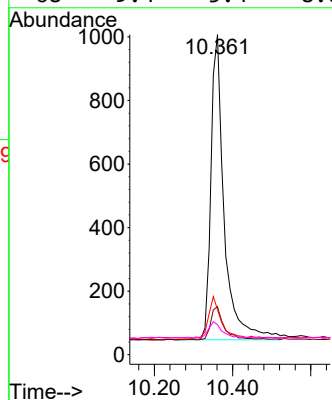
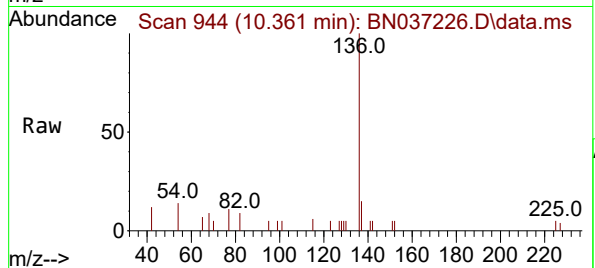




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

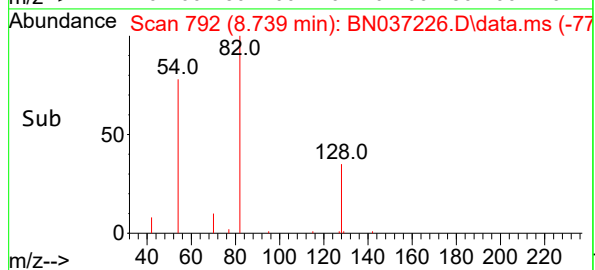
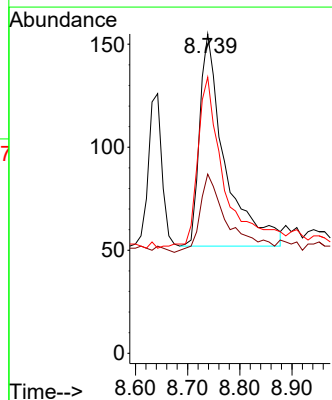
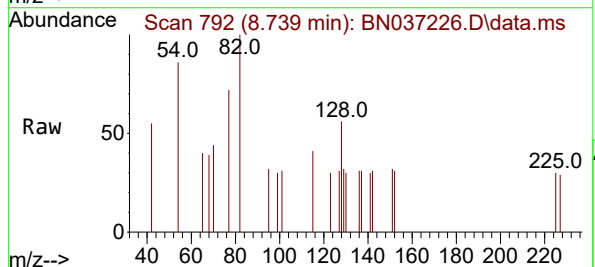
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

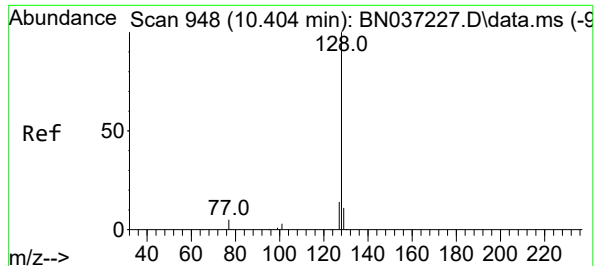
Tgt Ion:	136	Resp:	2268
Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.1	9.2	13.8#
68	9.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.154 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:	82	Resp:	345
Ion	Ratio	Lower	Upper
82	100		
128	56.1	31.2	46.8#
54	86.5	63.3	94.9

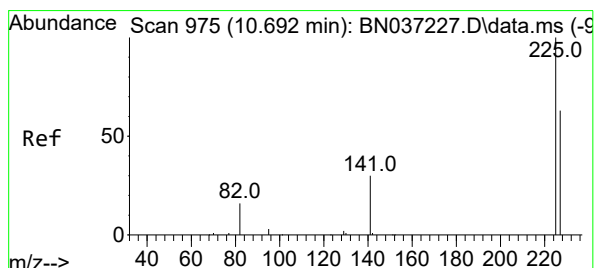
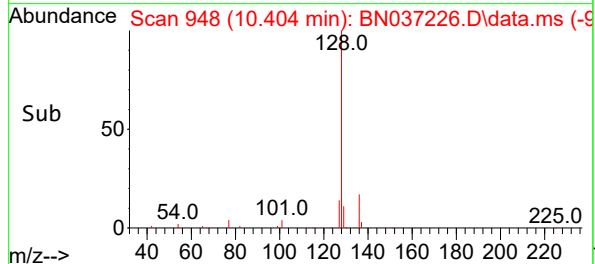
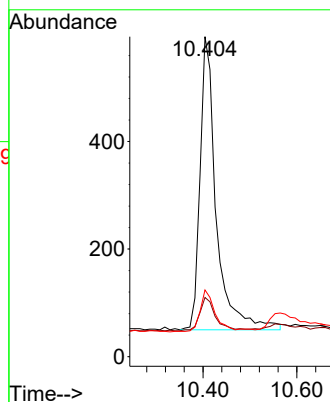
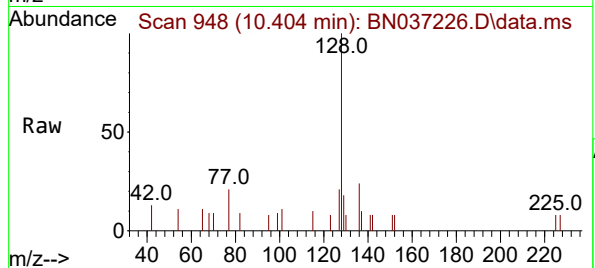




#9
Naphthalene
Concen: 0.199 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

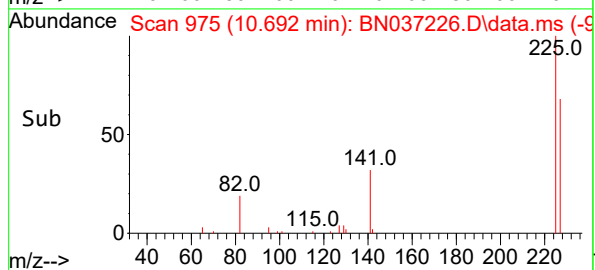
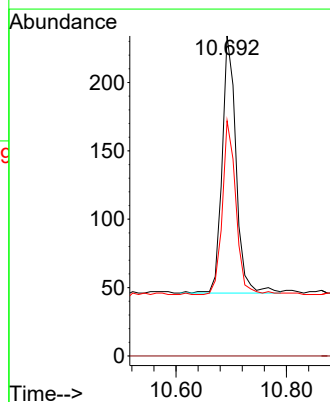
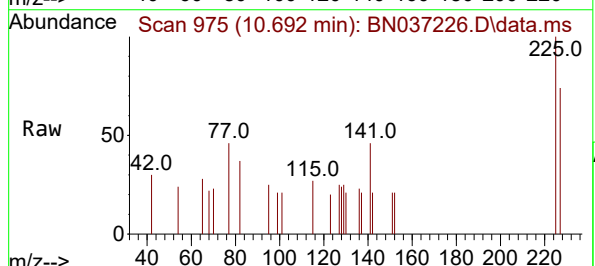
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

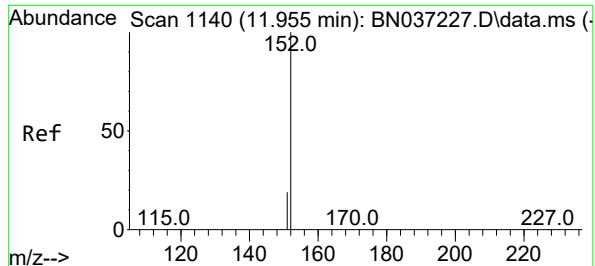
Tgt Ion:128 Resp: 1307
Ion Ratio Lower Upper
128 100
129 18.5 10.7 16.1#
127 20.8 12.6 19.0#



#10
Hexachlorobutadiene
Concen: 0.206 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:225 Resp: 329
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.3 49.2 73.8

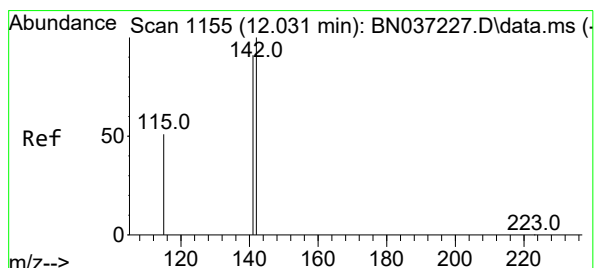
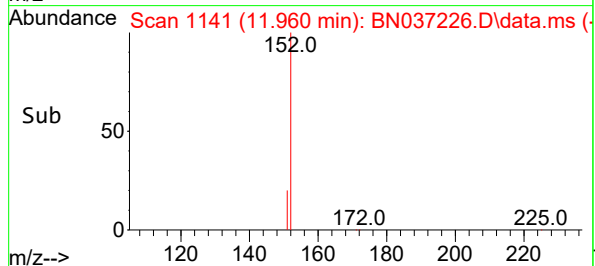
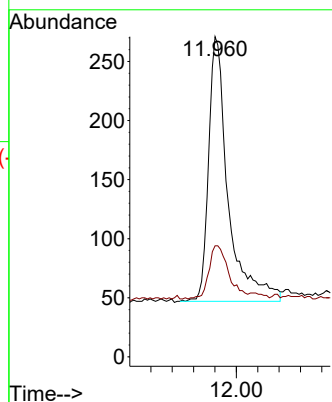
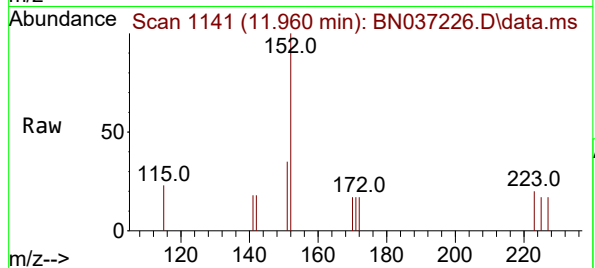




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

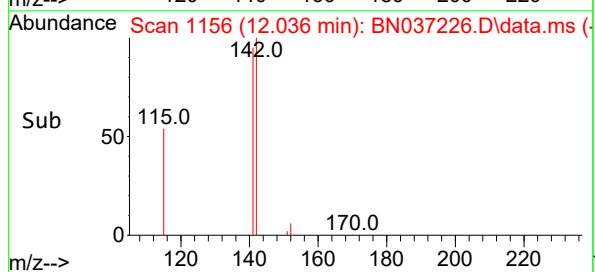
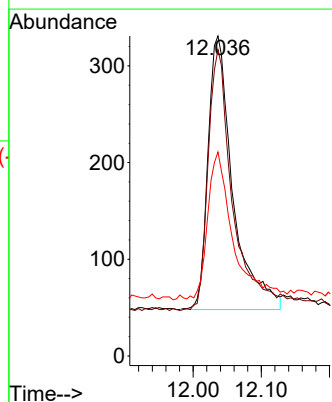
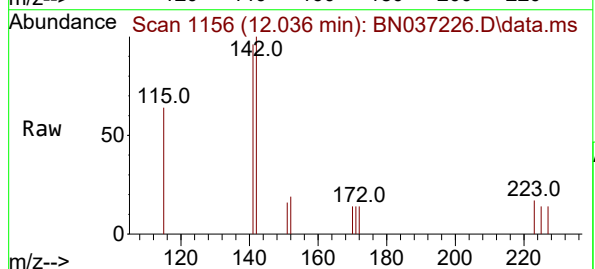
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

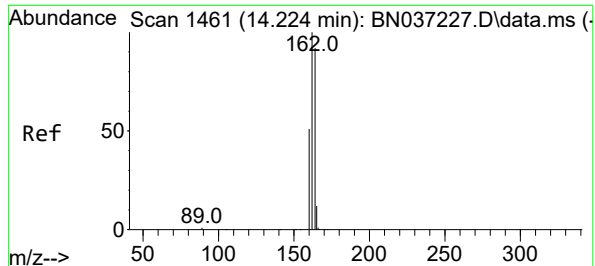
Tgt Ion:152 Resp: 571
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.180 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:142 Resp: 719
Ion Ratio Lower Upper
142 100
141 95.8 73.0 109.6
115 63.7 43.3 64.9

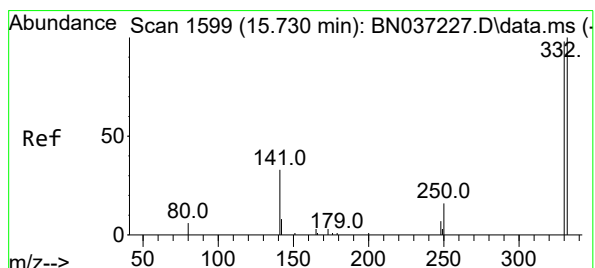
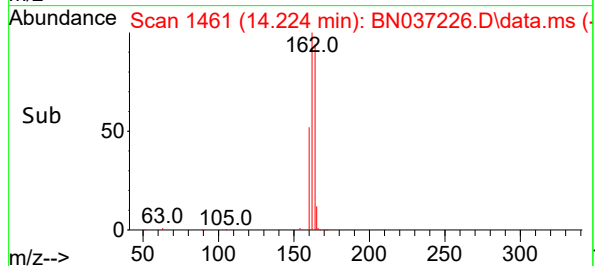
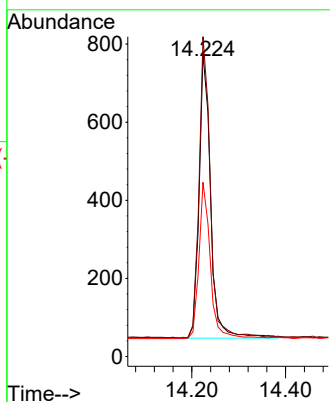
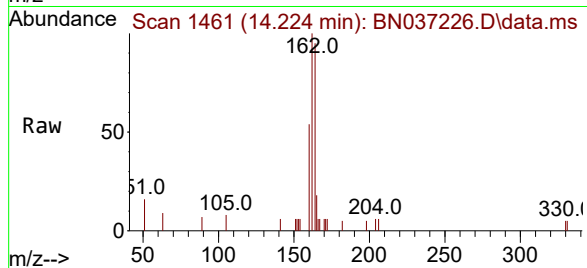




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

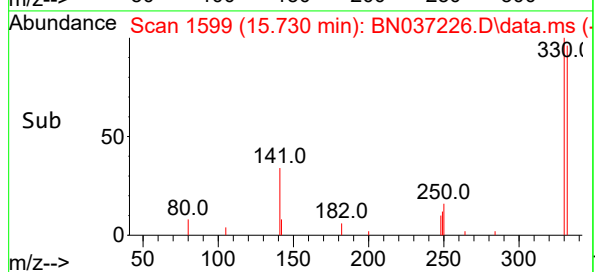
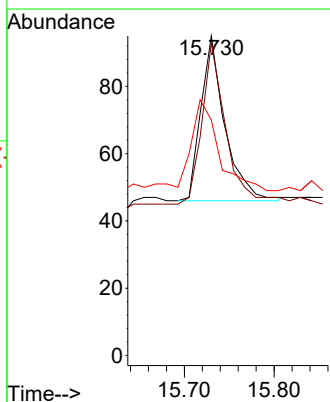
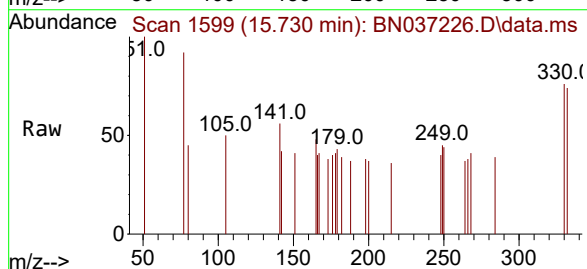
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

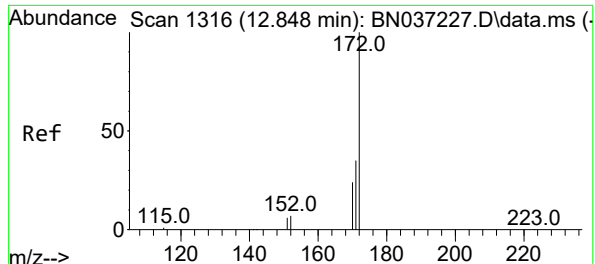
Tgt Ion:164 Resp: 1246
Ion Ratio Lower Upper
164 100
162 105.5 86.7 130.1
160 57.5 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:330 Resp: 91
Ion Ratio Lower Upper
330 100
332 101.1 74.9 112.3
141 62.6 45.1 67.7

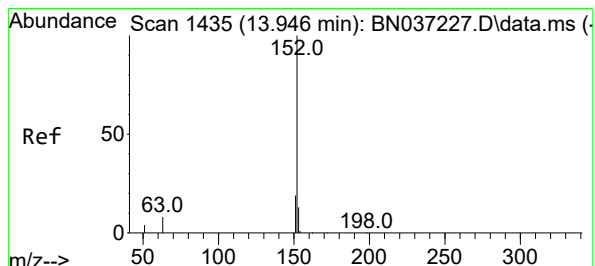
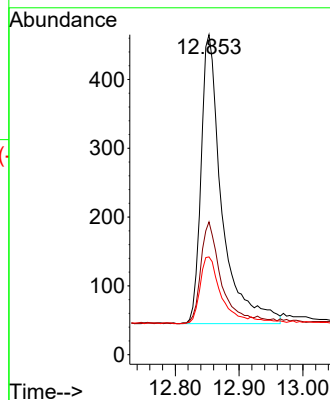
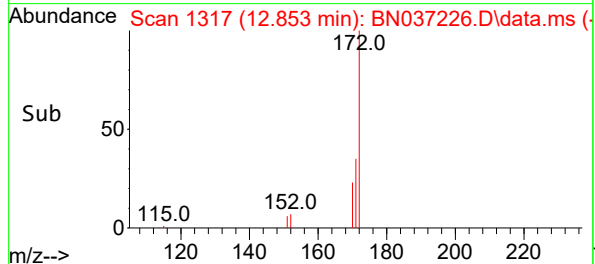
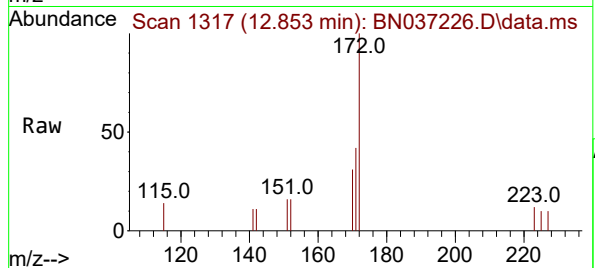




#15
2-Fluorobiphenyl
Concen: 0.182 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

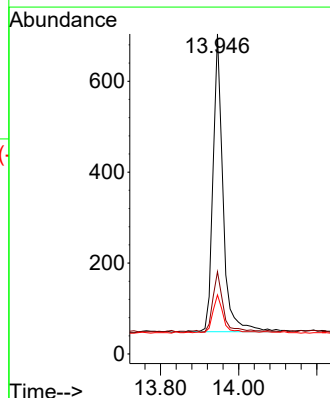
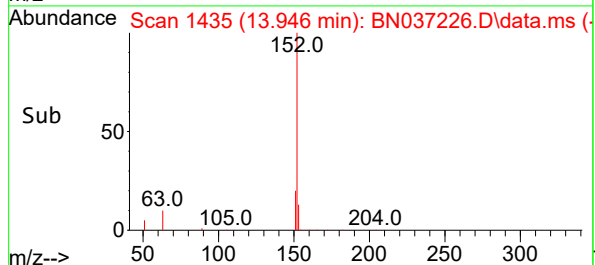
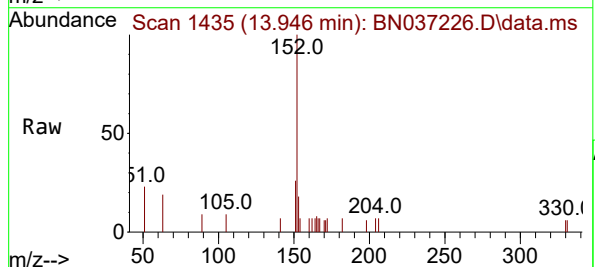
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

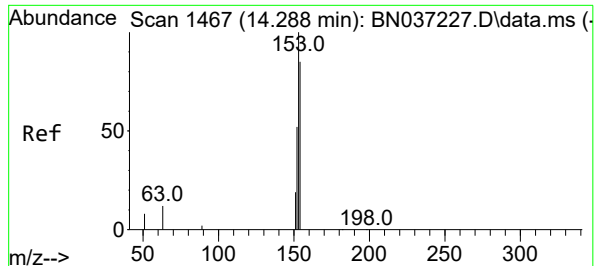
Tgt Ion:172 Resp: 953
Ion Ratio Lower Upper
172 100
171 41.5 29.8 44.8
170 30.5 21.1 31.7



#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:152 Resp: 1165
Ion Ratio Lower Upper
152 100
151 20.6 15.7 23.5
153 13.7 10.7 16.1

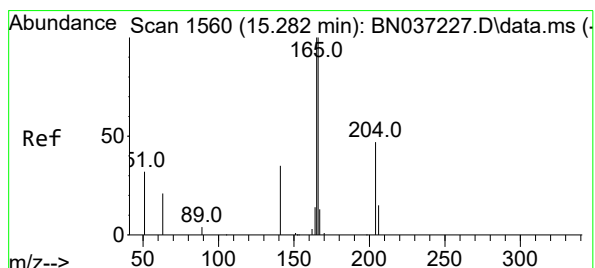
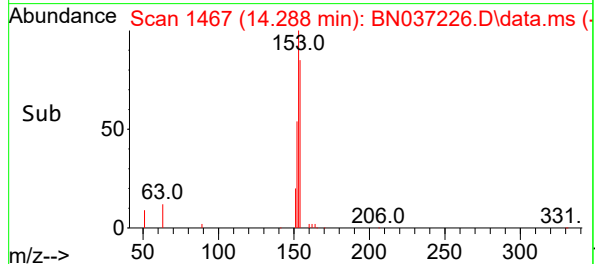
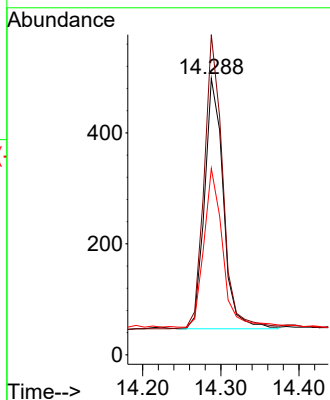
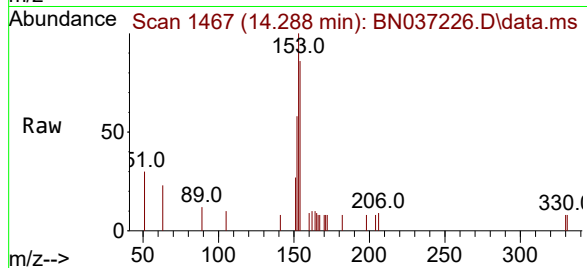




#17
Acenaphthene
Concen: 0.191 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

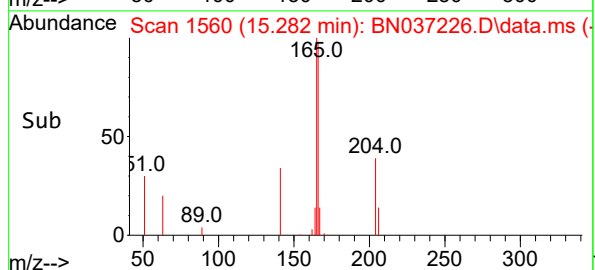
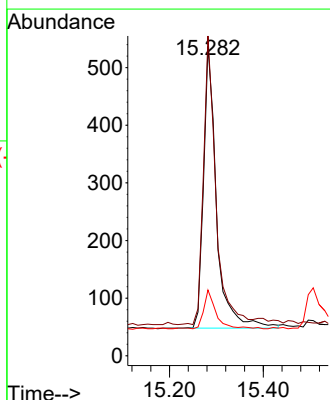
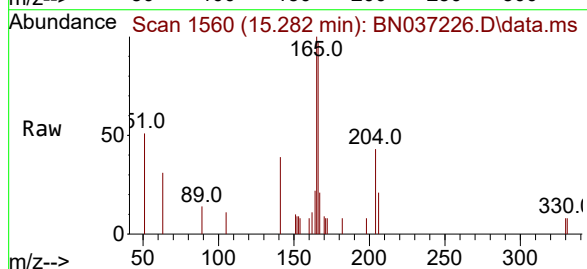
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

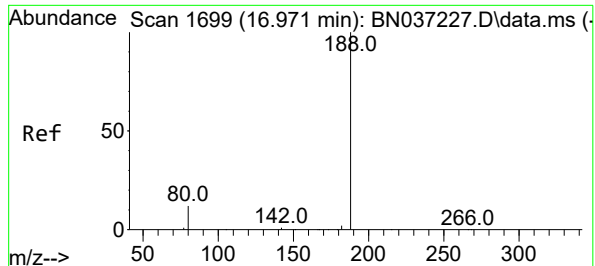
Tgt Ion:154 Resp: 753
Ion Ratio Lower Upper
154 100
153 117.3 94.6 141.8
152 65.2 49.6 74.4



#18
Fluorene
Concen: 0.186 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:166 Resp: 940
Ion Ratio Lower Upper
166 100
165 97.9 79.8 119.6
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

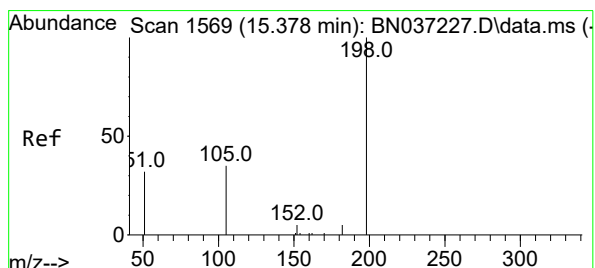
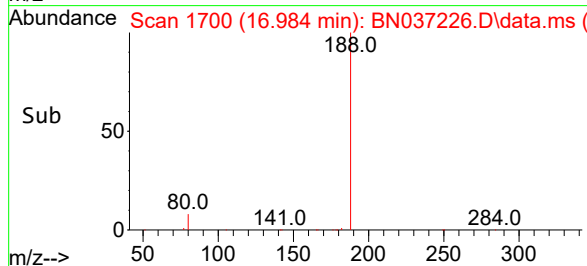
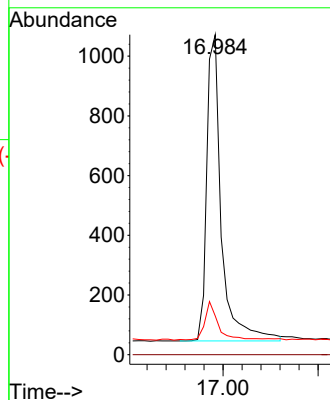
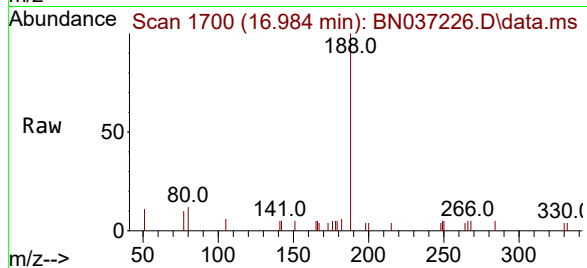
Tgt Ion:188 Resp: 2198

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.257 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.011 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

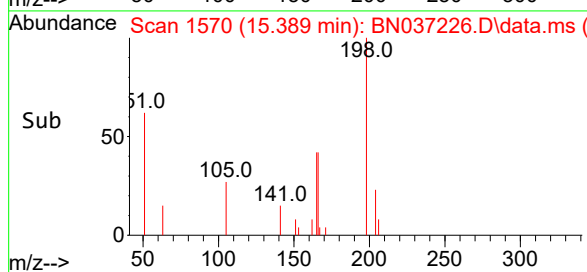
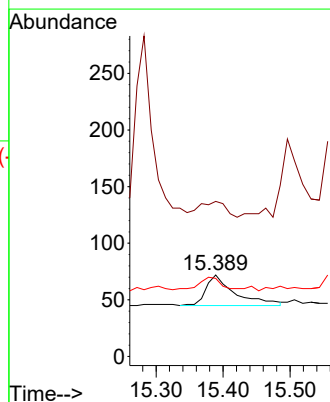
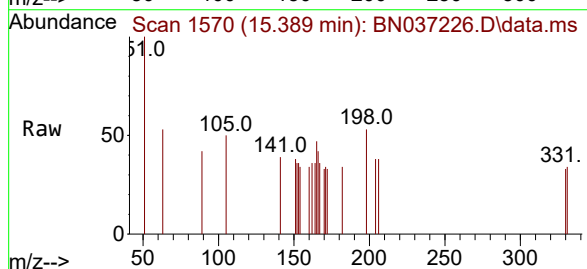
Tgt Ion:198 Resp: 81

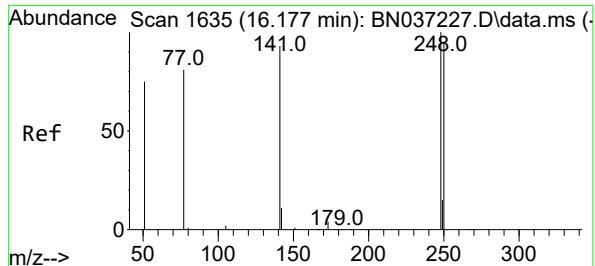
Ion Ratio Lower Upper

198 100

51 190.3 111.2 166.8#

105 95.8 54.0 81.0#

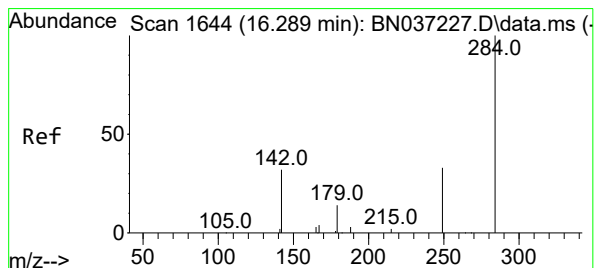
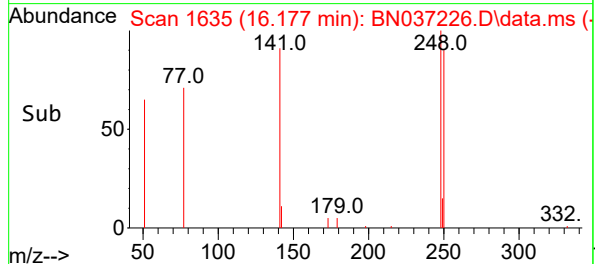
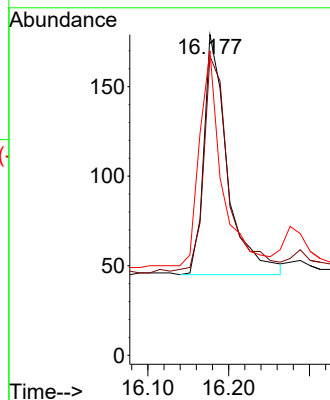
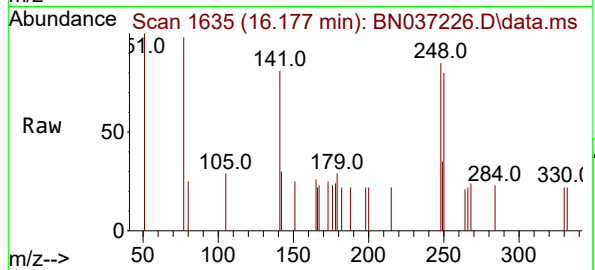




#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

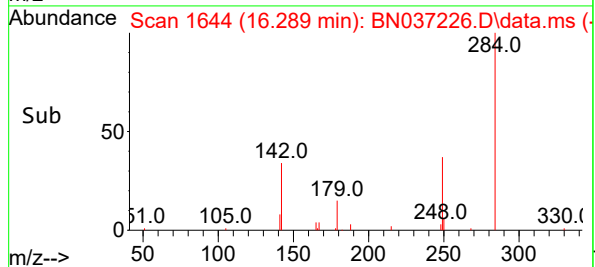
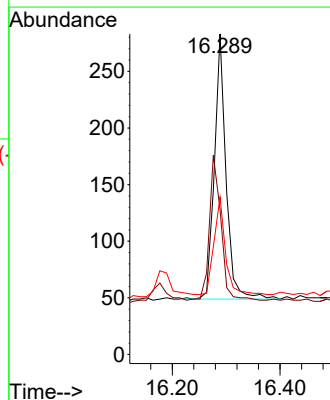
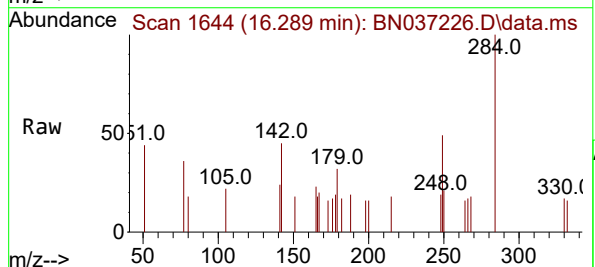
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

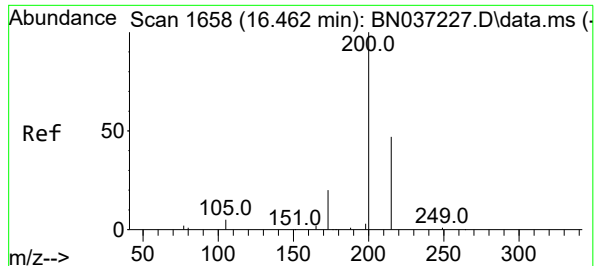
Tgt Ion:248 Resp: 273
Ion Ratio Lower Upper
248 100
250 93.3 76.8 115.2
141 95.0 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.211 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:284 Resp: 350
Ion Ratio Lower Upper
284 100
142 55.1 43.8 65.6
249 36.9 28.4 42.6

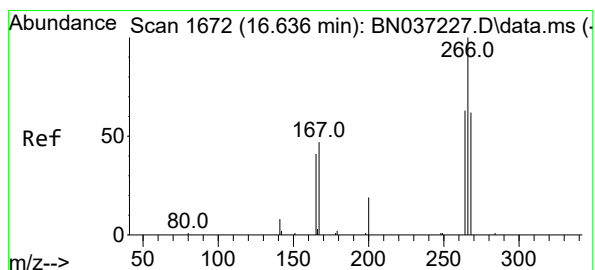
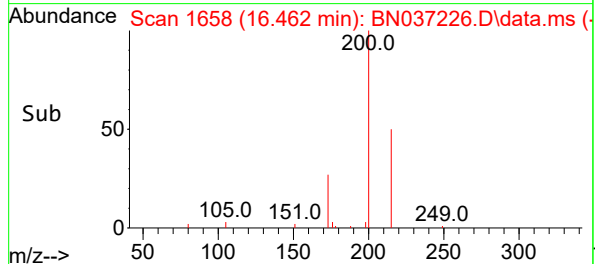
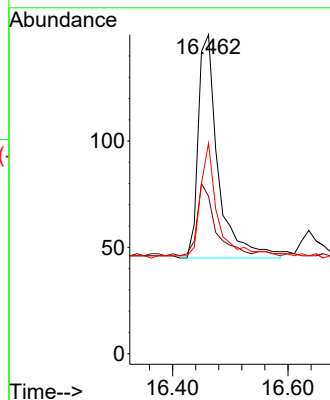
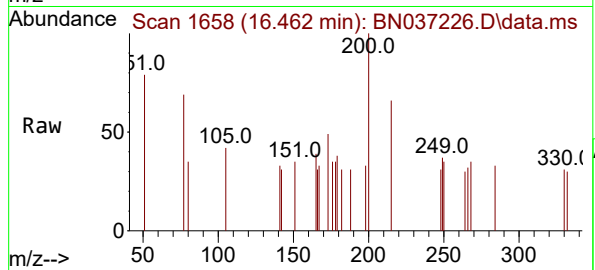




#23
Atrazine
Concen: 0.197 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

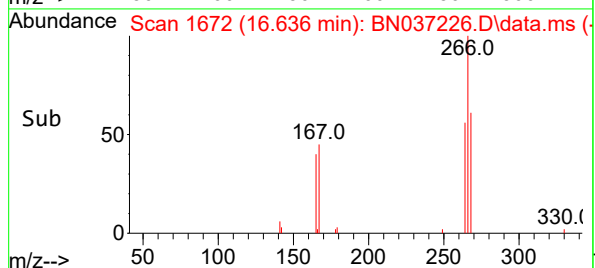
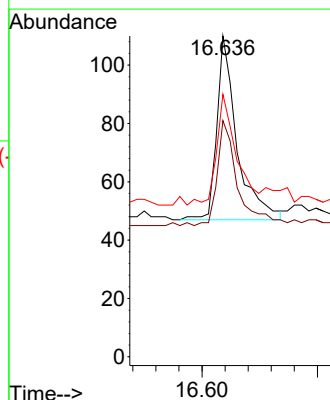
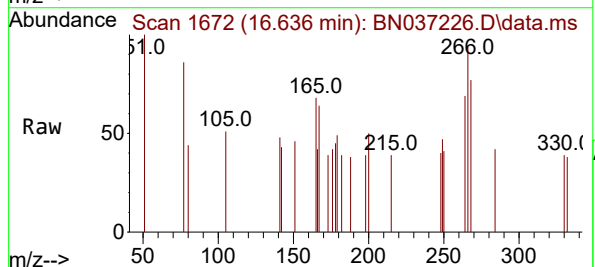
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

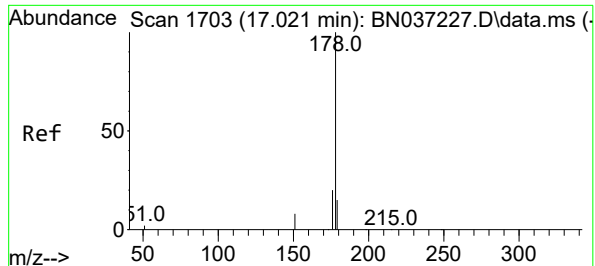
Tgt Ion:200 Resp: 252
Ion Ratio Lower Upper
200 100
173 49.3 25.1 37.7#
215 66.0 43.7 65.5#



#24
Pentachlorophenol
Concen: 0.188 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
264 58.2 49.2 73.8
268 54.2 53.4 80.2

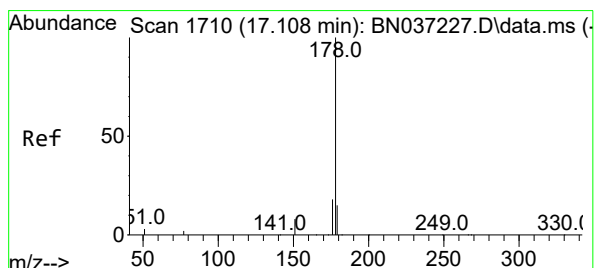
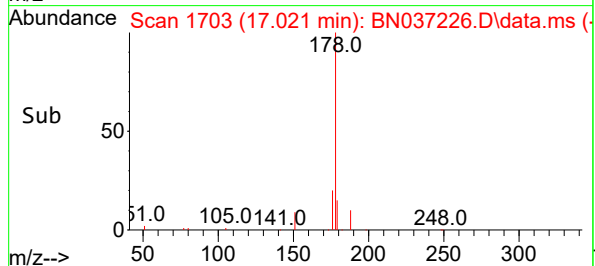
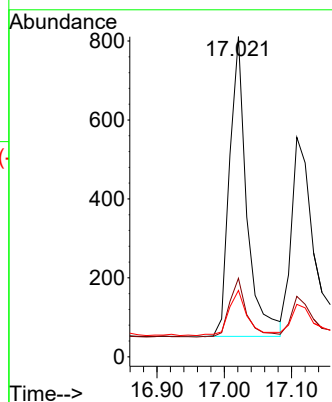
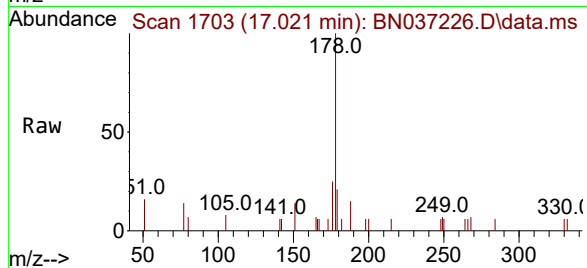




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

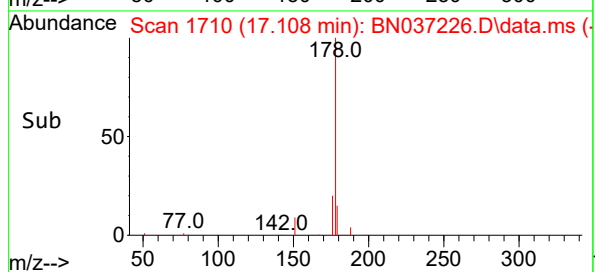
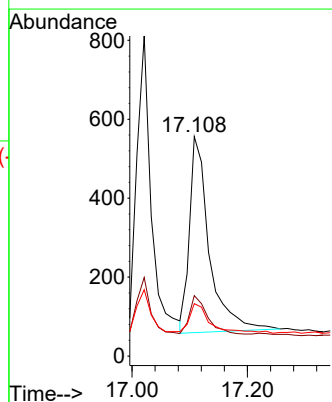
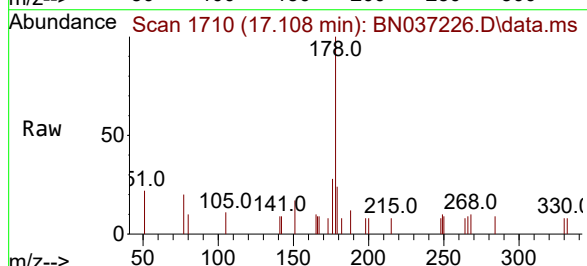
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

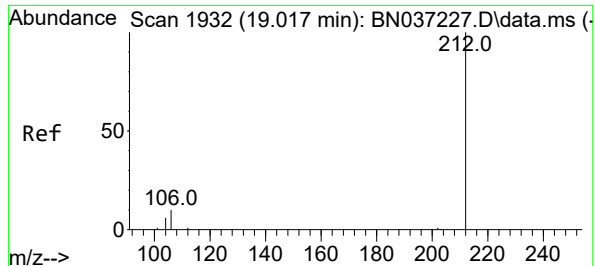
Tgt Ion:178 Resp: 1346
Ion Ratio Lower Upper
178 100
176 20.1 16.3 24.5
179 15.9 12.6 18.8



#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:178 Resp: 1186
Ion Ratio Lower Upper
178 100
176 18.0 15.1 22.7
179 16.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.205 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

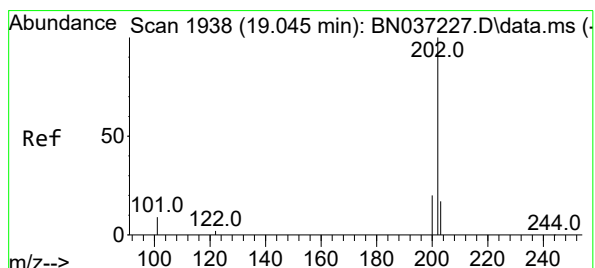
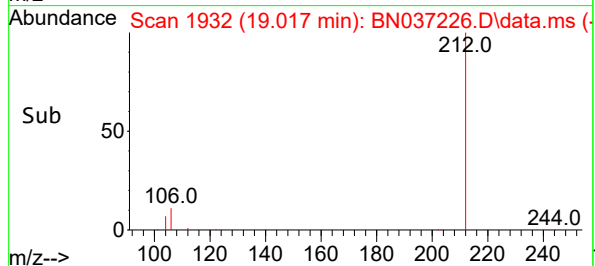
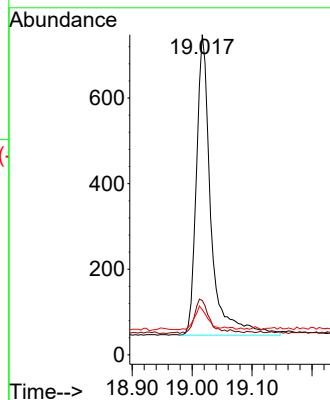
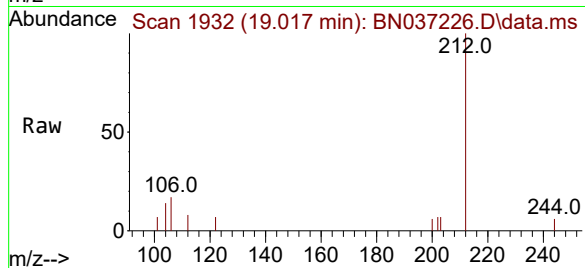
Tgt Ion:212 Resp: 1179

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.203 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

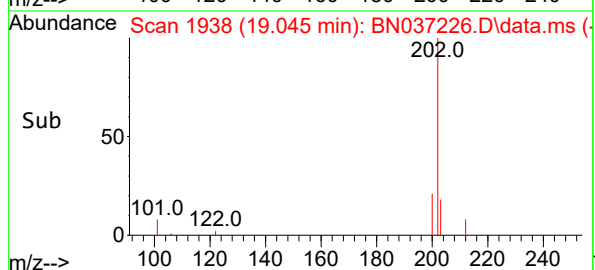
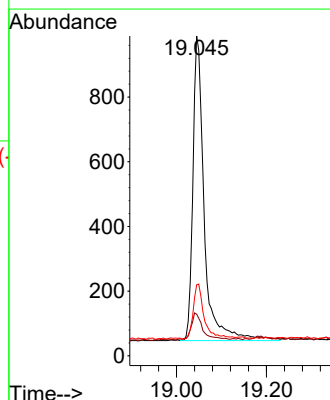
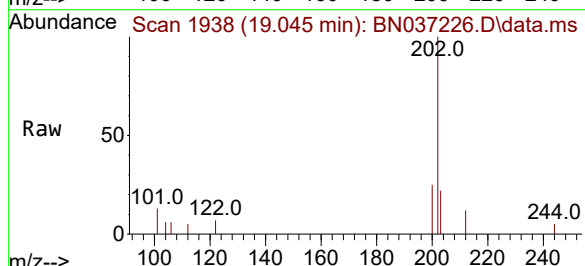
Tgt Ion:202 Resp: 1657

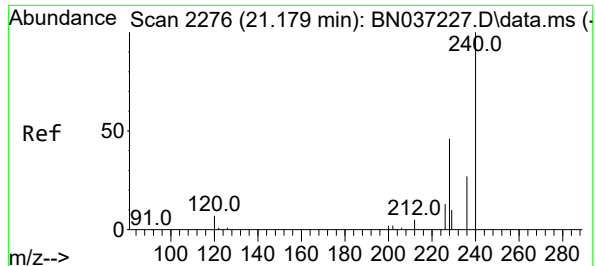
Ion Ratio Lower Upper

202 100

101 9.1 7.1 10.7

203 18.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

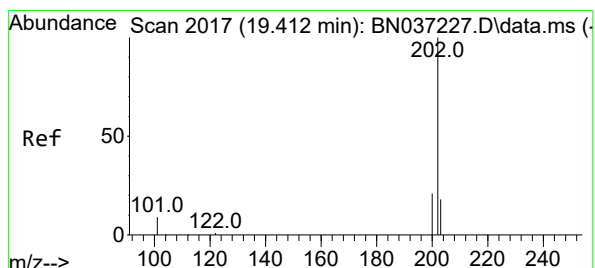
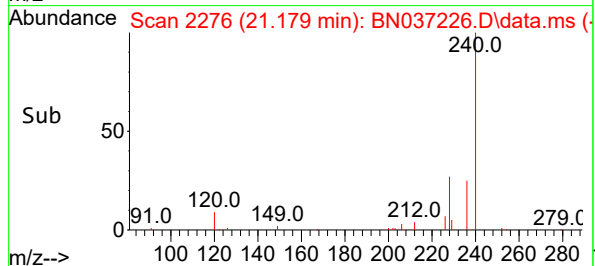
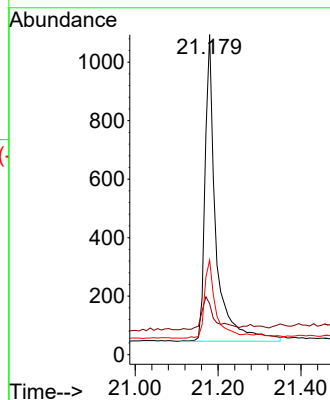
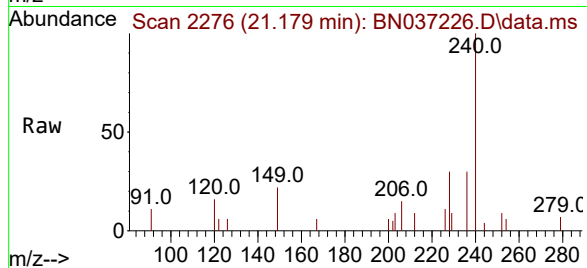
Tgt Ion:240 Resp: 1908

Ion Ratio Lower Upper

240 100

120 15.9 11.3 16.9

236 29.5 24.4 36.6



#30

Pyrene

Concen: 0.185 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

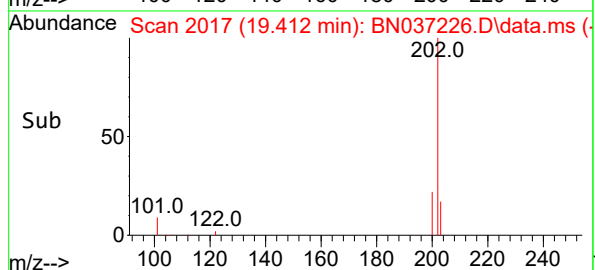
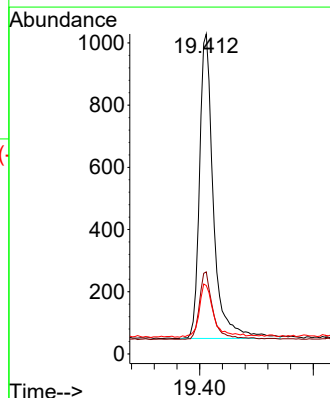
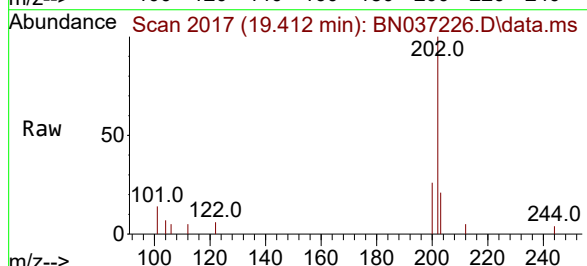
Tgt Ion:202 Resp: 1660

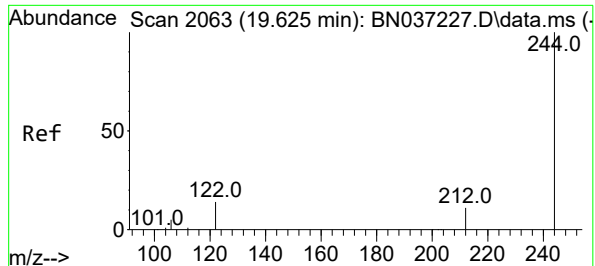
Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

203 18.2 14.3 21.5

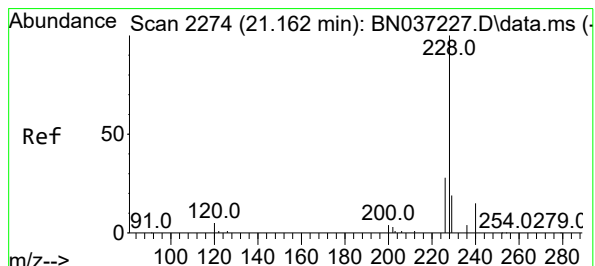
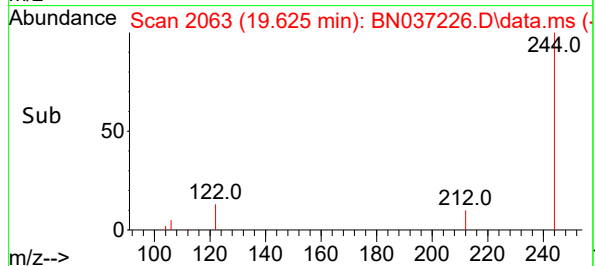
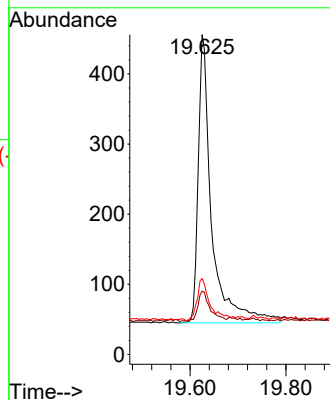
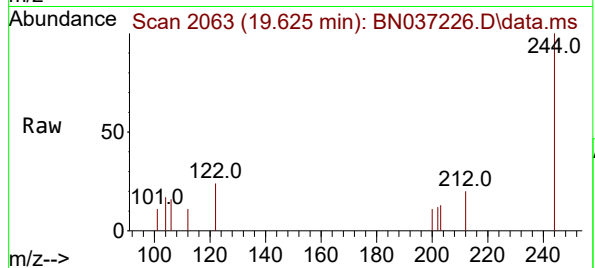




#31
Terphenyl-d14
Concen: 0.187 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

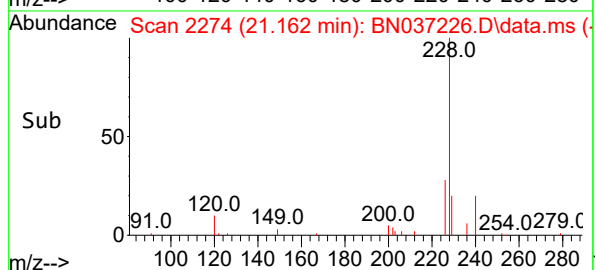
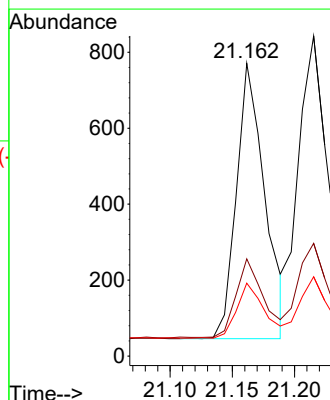
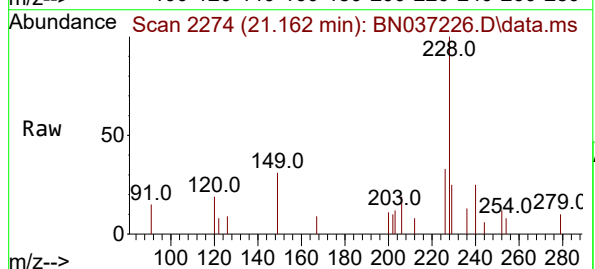
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

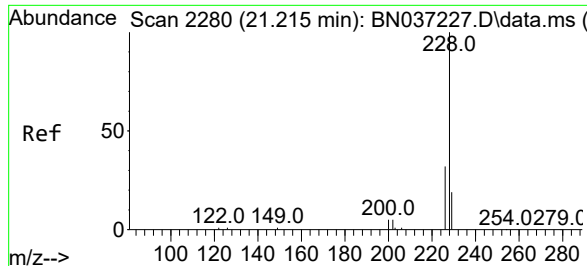
Tgt Ion:244 Resp: 806
Ion Ratio Lower Upper
244 100
212 19.7 12.2 18.2#
122 23.7 14.3 21.5#



#32
Benzo(a)anthracene
Concen: 0.178 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:228 Resp: 1149
Ion Ratio Lower Upper
228 100
226 33.2 23.8 35.8
229 24.9 17.0 25.4





#33

Chrysene

Concen: 0.205 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

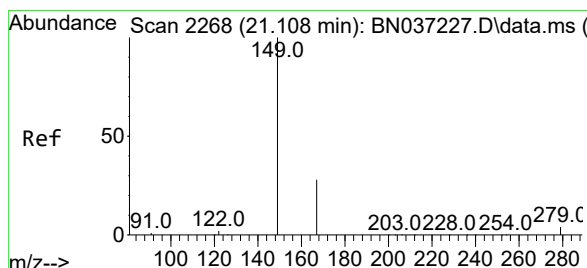
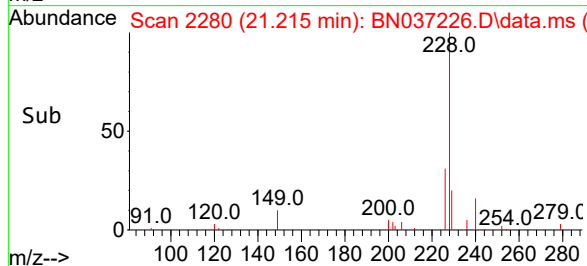
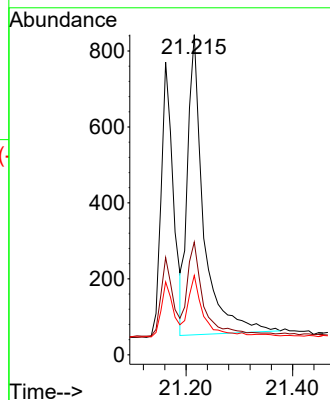
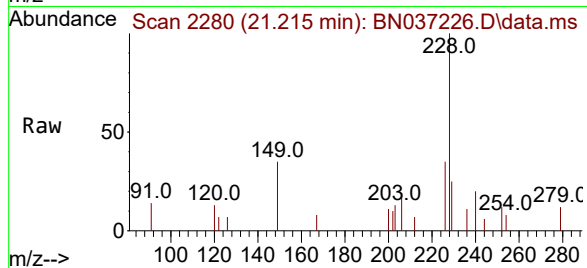
Tgt Ion:228 Resp: 1643

Ion Ratio Lower Upper

228 100

226 35.2 25.8 38.6

229 24.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.219 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

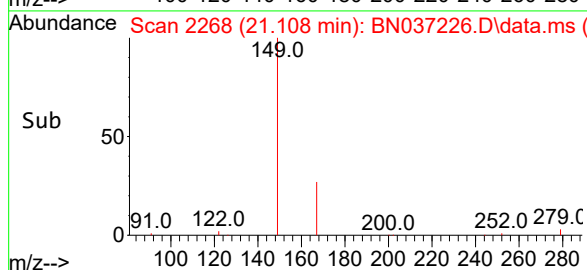
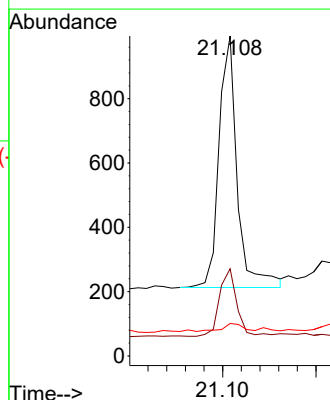
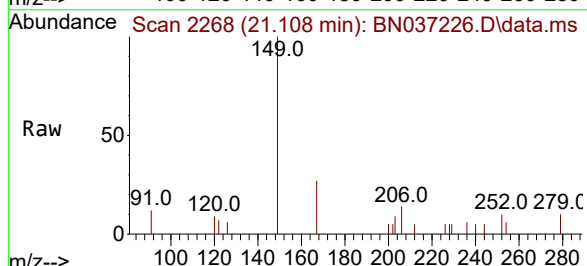
Tgt Ion:149 Resp: 1053

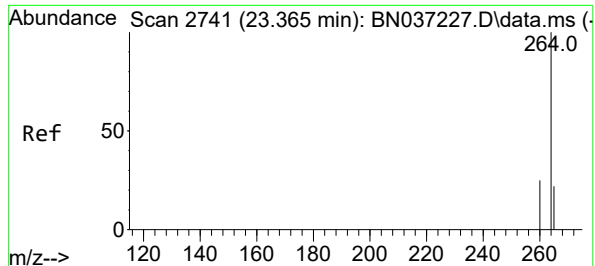
Ion Ratio Lower Upper

149 100

167 25.7 21.3 31.9

279 3.6 3.3 4.9

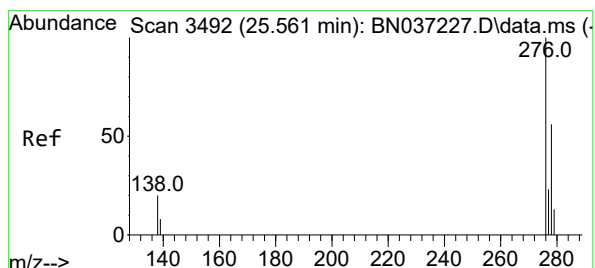
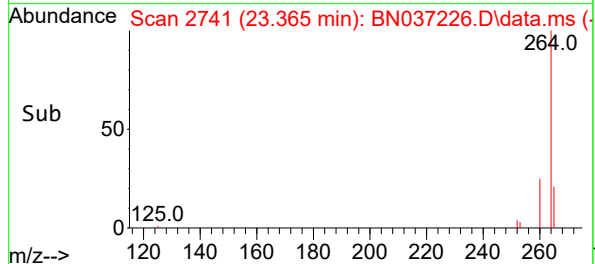
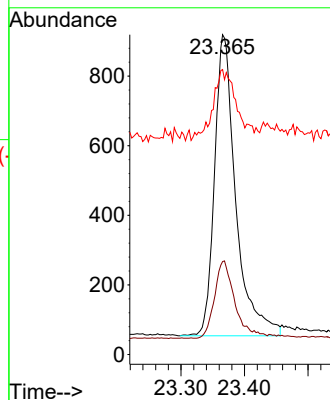
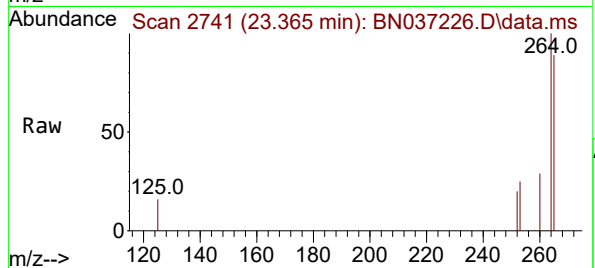




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.365 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

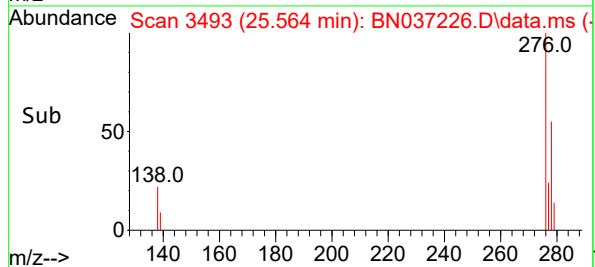
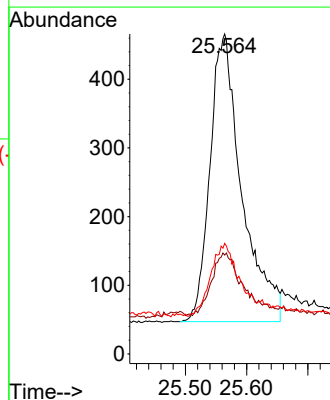
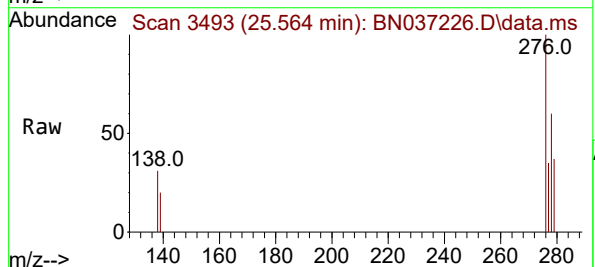
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

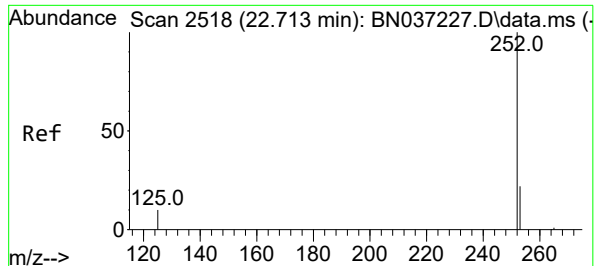
Tgt Ion:264 Resp: 2012
Ion Ratio Lower Upper
264 100
260 29.1 22.8 34.2
265 89.1 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.186 ng
RT: 25.564 min Scan# 3493
Delta R.T. 0.003 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:276 Resp: 1512
Ion Ratio Lower Upper
276 100
138 20.4 16.8 25.2
277 22.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.176 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

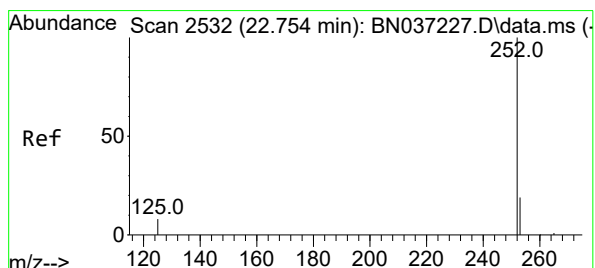
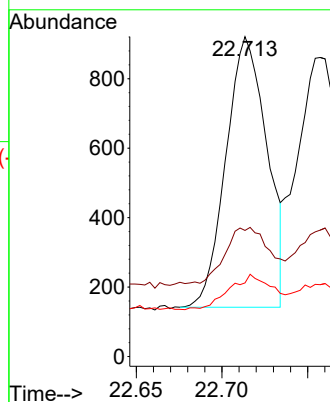
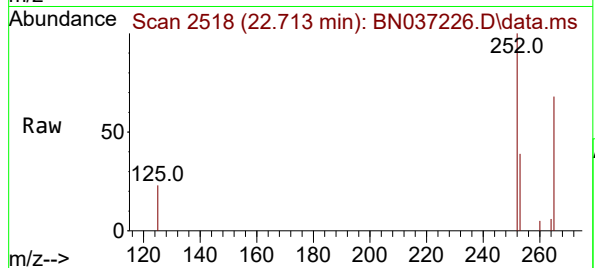
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 39.4 24.9 37.3#

125 23.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 0.179 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

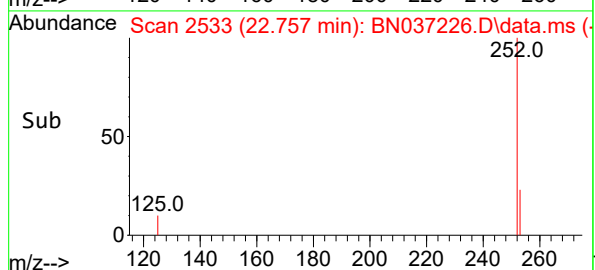
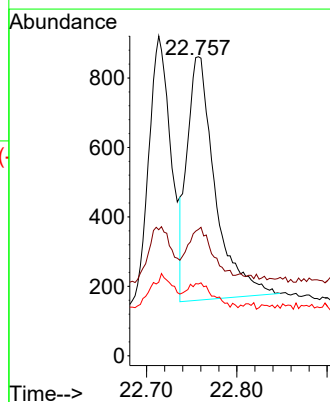
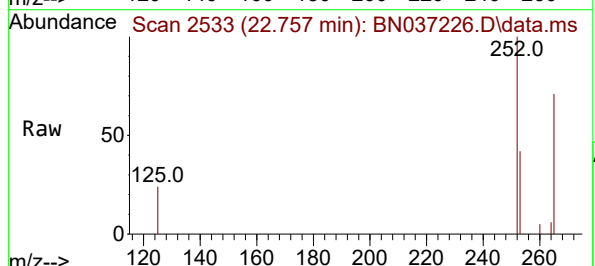
Tgt Ion:252 Resp: 1512

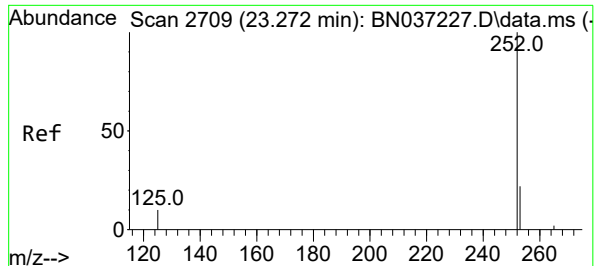
Ion Ratio Lower Upper

252 100

253 42.3 24.6 37.0#

125 24.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.184 ng

RT: 23.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037226.D

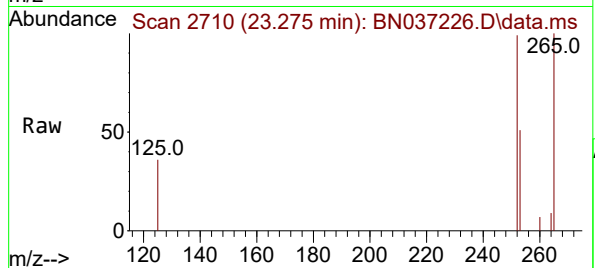
Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



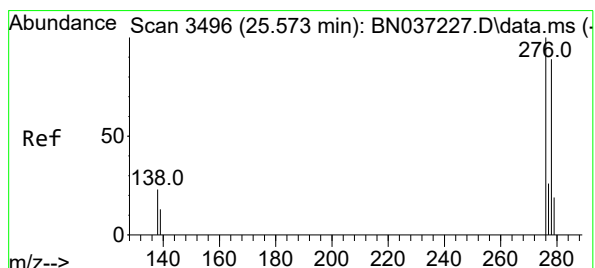
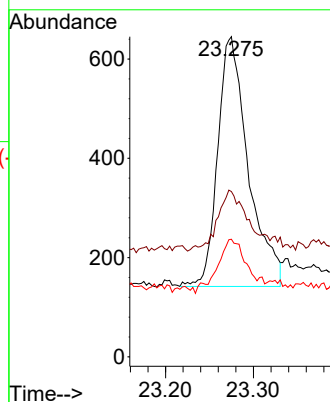
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 51.6 29.4 44.2#

125 36.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.576 min Scan# 3497

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

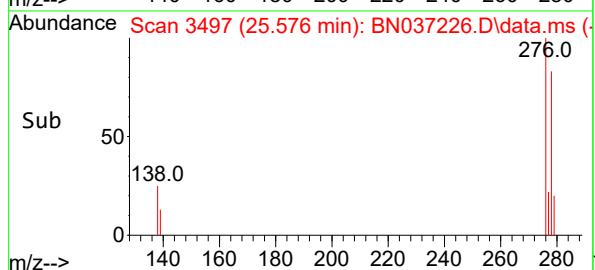
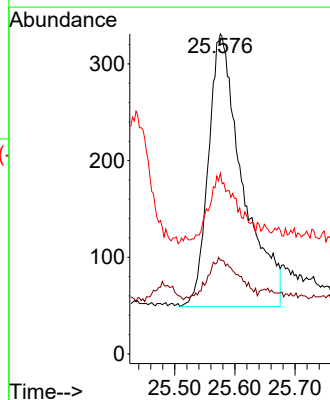
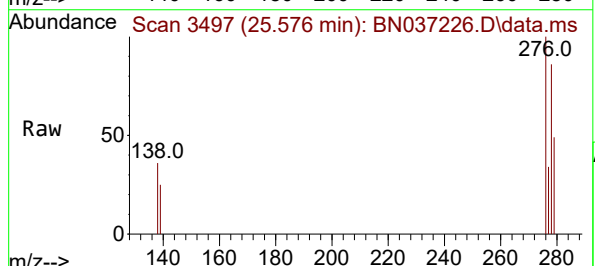
Tgt Ion:278 Resp: 1109

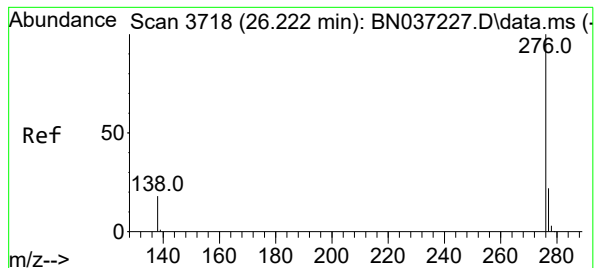
Ion Ratio Lower Upper

278 100

139 29.3 17.8 26.6#

279 56.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.225 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037226.D

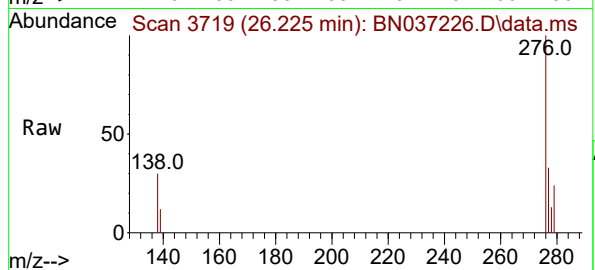
Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



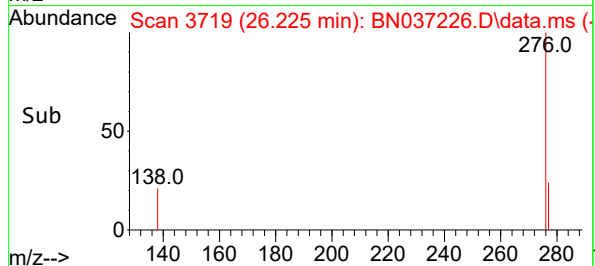
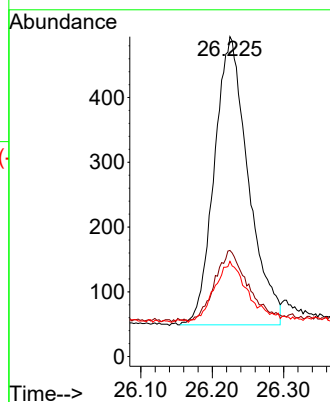
Tgt Ion:276 Resp: 1469

Ion Ratio Lower Upper

276 100

277 33.2 22.0 33.0#

138 29.8 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037227.D
 Acq On : 13 Jun 2025 14:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

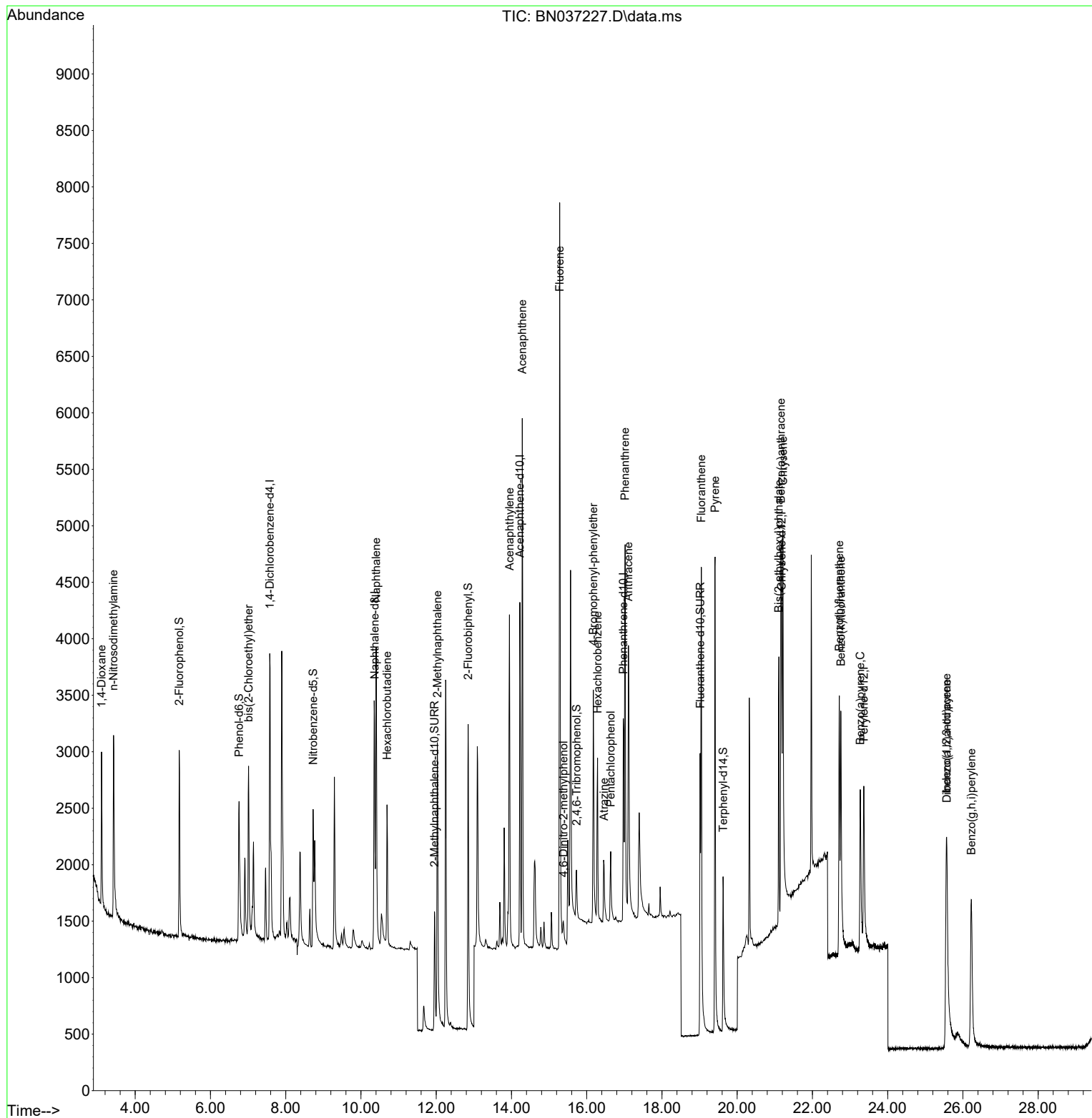
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1287	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	3210	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1738	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3195	0.400	ng	0.00
29) Chrysene-d12	21.179	240	2284	0.400	ng	0.00
35) Perylene-d12	23.365	264	2150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1212	0.383	ng	0.00
5) Phenol-d6	6.759	99	1239	0.372	ng	0.00
8) Nitrobenzene-d5	8.728	82	1234	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1787	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	298	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2952	0.404	ng	0.00
27) Fluoranthene-d10	19.017	212	3364	0.402	ng	0.00
31) Terphenyl-d14	19.625	244	2160	0.418	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	676	0.383	ng	100
3) n-Nitrosodimethylamine	3.422	42	1644	0.409	ng	100
6) bis(2-Chloroethyl)ether	7.011	93	1120	0.375	ng	100
9) Naphthalene	10.404	128	3636	0.391	ng	100
10) Hexachlorobutadiene	10.692	225	968	0.428	ng	# 100
12) 2-Methylnaphthalene	12.031	142	2261	0.400	ng	100
16) Acenaphthylene	13.946	152	3250	0.382	ng	100
17) Acenaphthene	14.288	154	2155	0.392	ng	100
18) Fluorene	15.282	166	2768	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	211	0.368	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	780	0.375	ng	100
22) Hexachlorobenzene	16.289	284	994	0.412	ng	100
23) Atrazine	16.462	200	710	0.382	ng	100
24) Pentachlorophenol	16.636	266	397	0.336	ng	100
25) Phenanthrene	17.021	178	3790	0.374	ng	100
26) Anthracene	17.108	178	3450	0.372	ng	100
28) Fluoranthene	19.045	202	4510	0.380	ng	100
30) Pyrene	19.412	202	4482	0.417	ng	100
32) Benzo(a)anthracene	21.162	228	2798	0.363	ng	100
33) Chrysene	21.215	228	3871	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	21.108	149	2338	0.407	ng	100
36) Indeno(1,2,3-cd)pyrene	25.561	276	3239	0.374	ng	100
37) Benzo(b)fluoranthene	22.713	252	2958	0.376	ng	100
38) Benzo(k)fluoranthene	22.754	252	3501	0.388	ng	100
39) Benzo(a)pyrene	23.272	252	2653	0.375	ng	100
40) Dibenzo(a,h)anthracene	25.573	278	2256	0.345	ng	100
41) Benzo(g,h,i)perylene	26.222	276	3099	0.385	ng	100

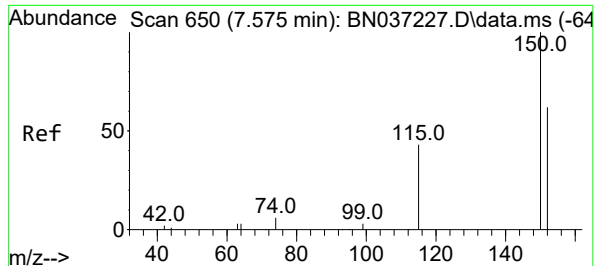
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037227.D
 Acq On : 13 Jun 2025 14:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

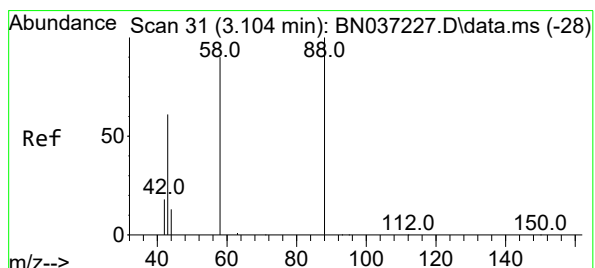
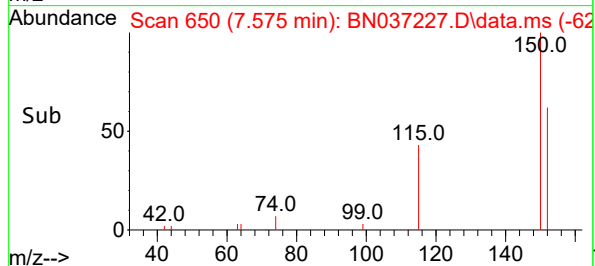
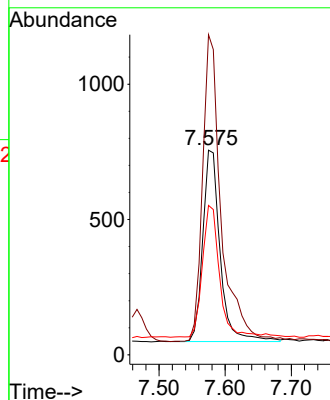
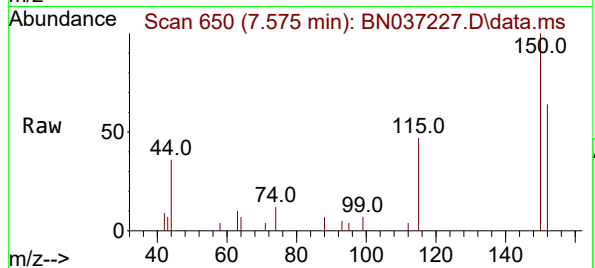




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

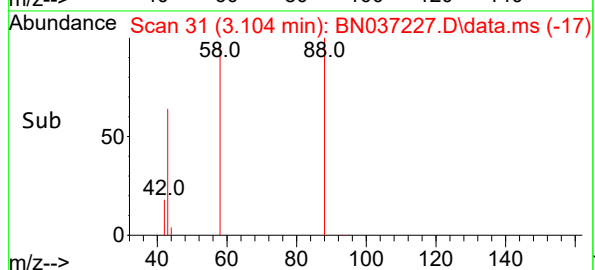
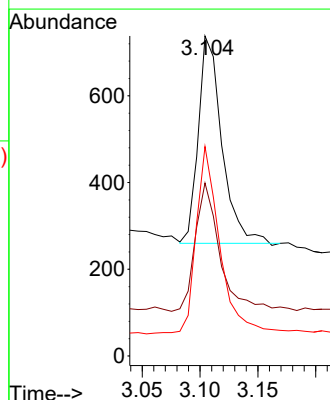
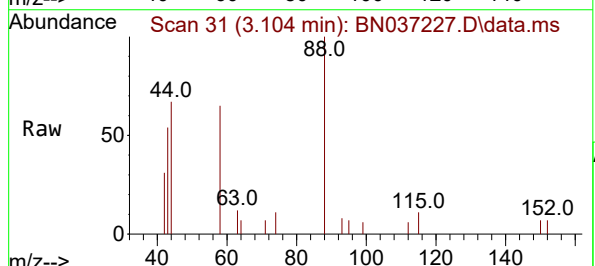
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

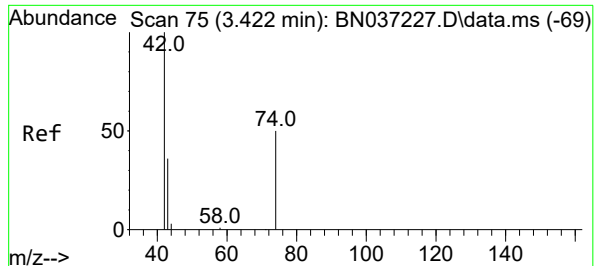
Tgt Ion:152 Resp: 1287
Ion Ratio Lower Upper
152 100
150 156.5 125.2 187.8
115 73.0 58.4 87.6



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 88 Resp: 676
Ion Ratio Lower Upper
88 100
43 65.8 52.6 79.0
58 91.9 73.5 110.3

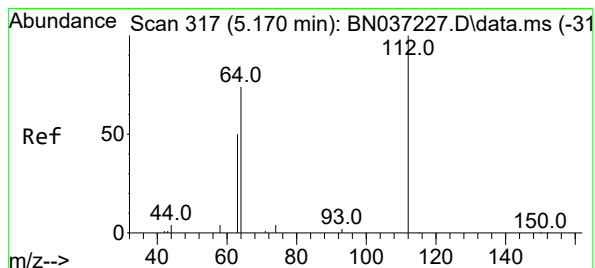
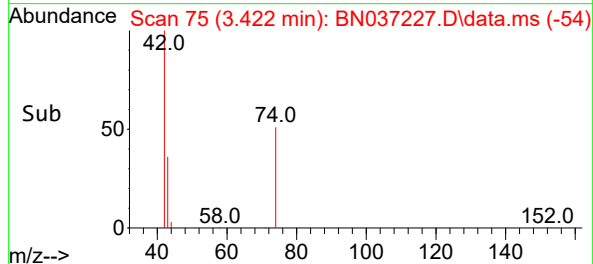
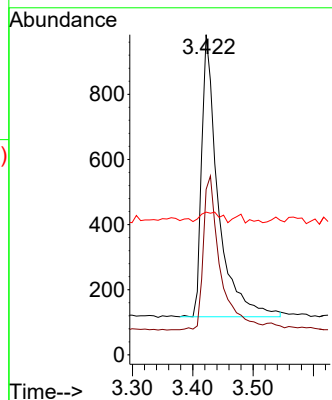
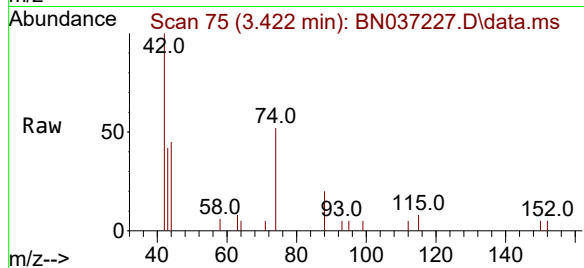




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

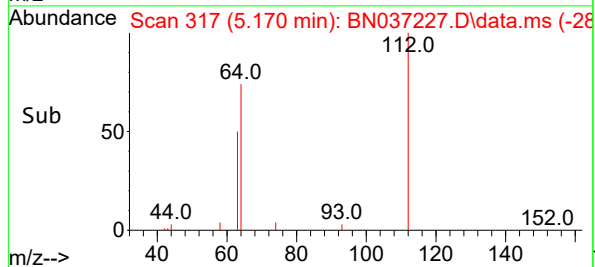
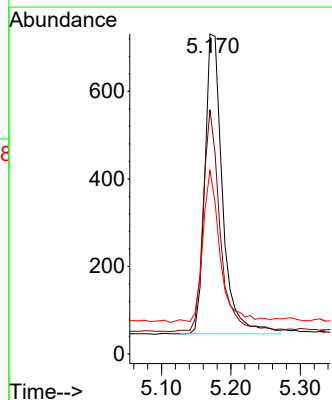
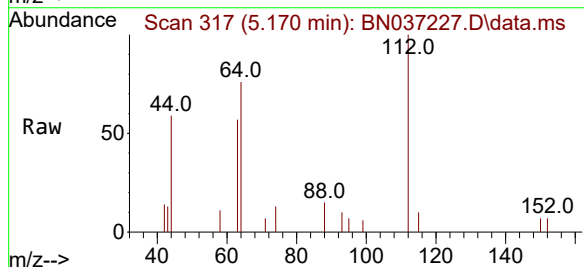
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

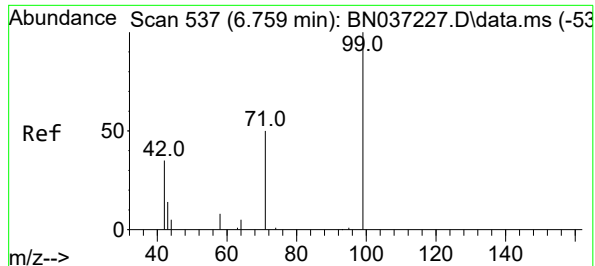
Tgt Ion: 42 Resp: 1644
Ion Ratio Lower Upper
42 100
74 55.7 44.6 66.8
44 4.4 3.5 5.3



#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 112 Resp: 1212
Ion Ratio Lower Upper
112 100
64 71.5 57.2 85.8
63 49.7 39.8 59.6





#5

Phenol-d6

Concen: 0.372 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

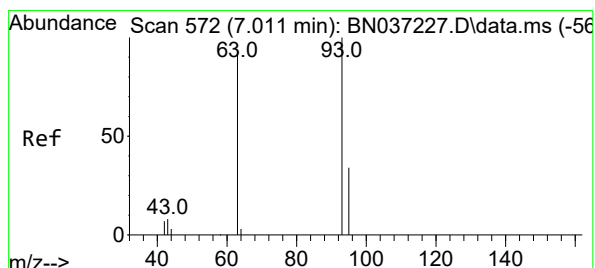
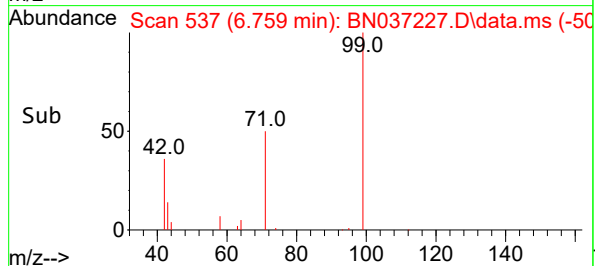
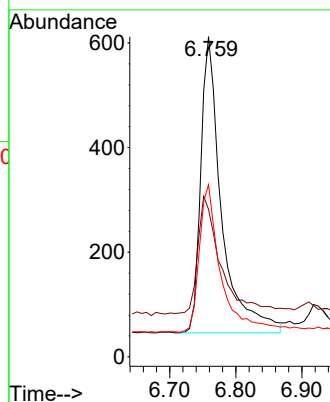
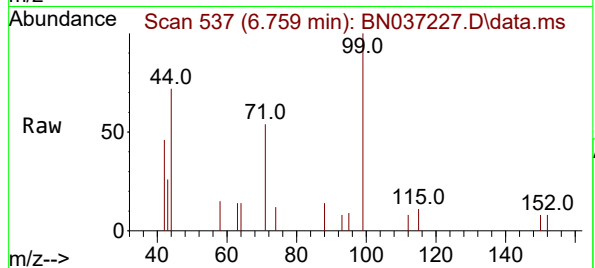
Tgt Ion: 99 Resp: 1239

Ion	Ratio	Lower	Upper

99	100		

42	45.3	36.2	54.4

71	53.0	42.4	63.6



#6

bis(2-Chloroethyl)ether

Concen: 0.375 ng

RT: 7.011 min Scan# 572

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

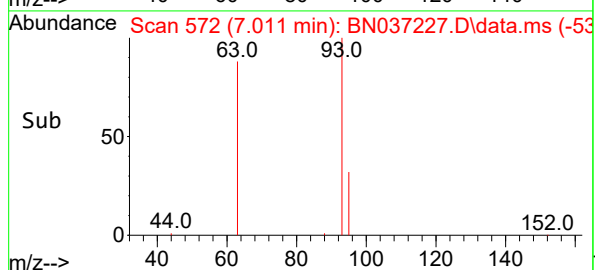
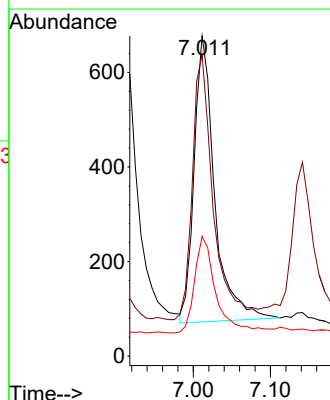
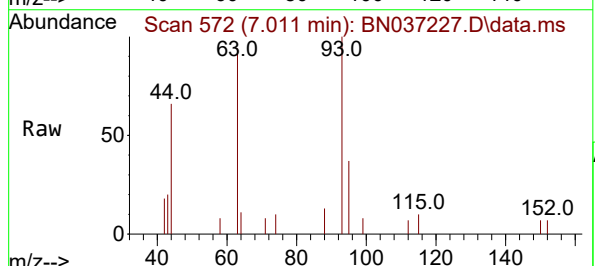
Tgt Ion: 93 Resp: 1120

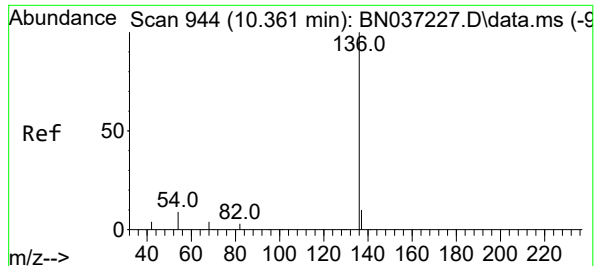
Ion	Ratio	Lower	Upper

93	100		

63	94.0	75.2	112.8

95	35.4	28.3	42.5

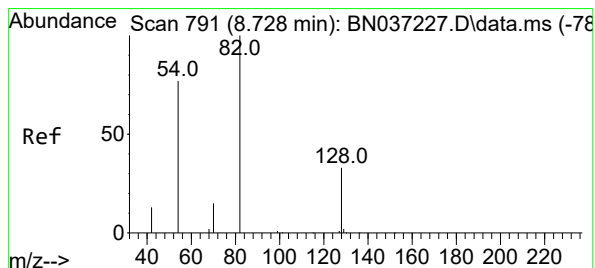
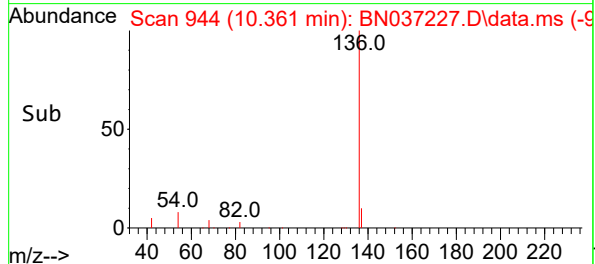
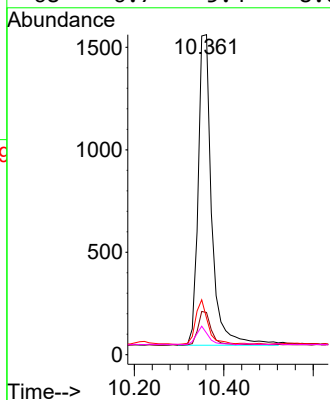
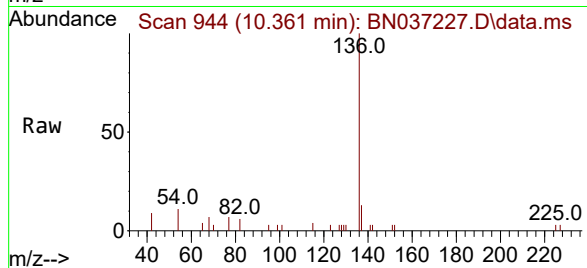




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

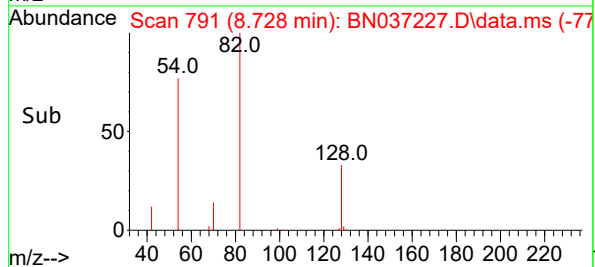
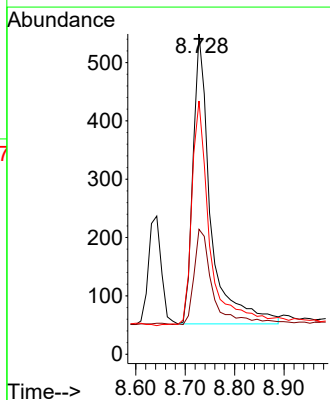
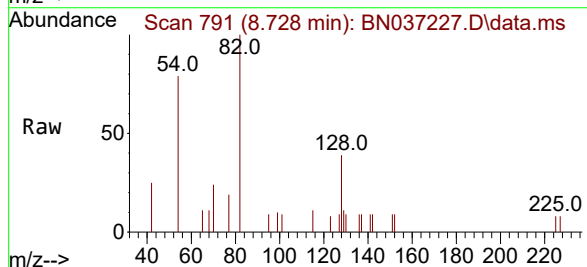
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

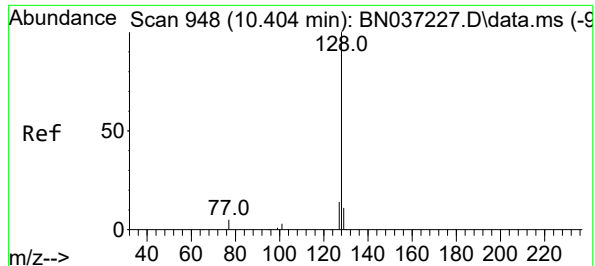
Tgt Ion:	136	Resp:	3210
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	11.5	9.2	13.8
68	6.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:	82	Resp:	1234
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	79.1	63.3	94.9

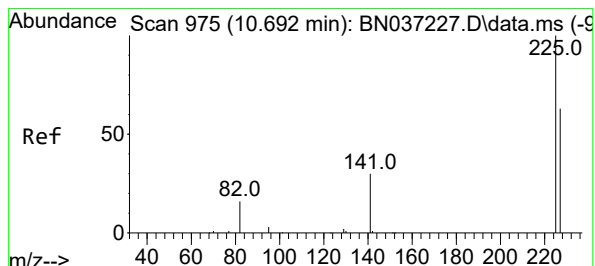
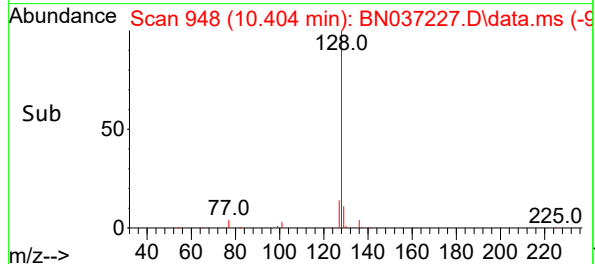
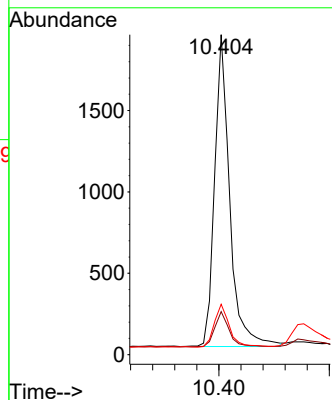
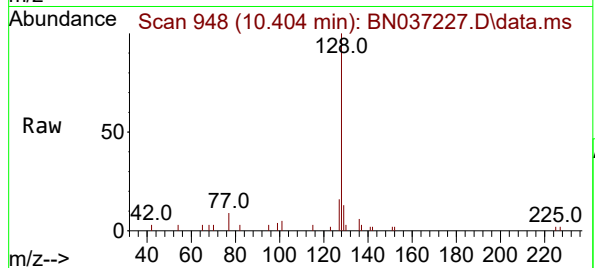




#9
Naphthalene
Concen: 0.391 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

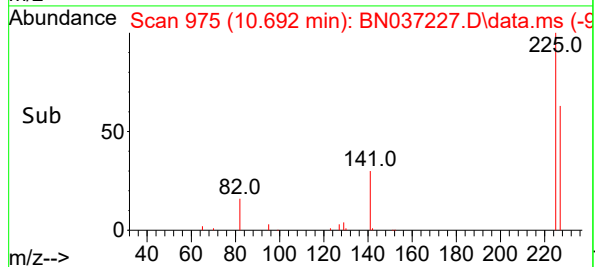
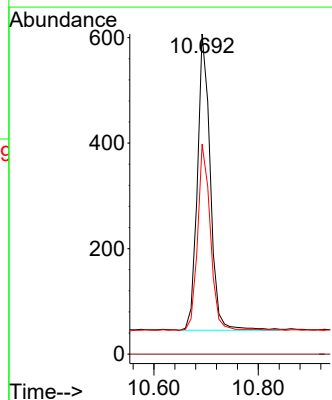
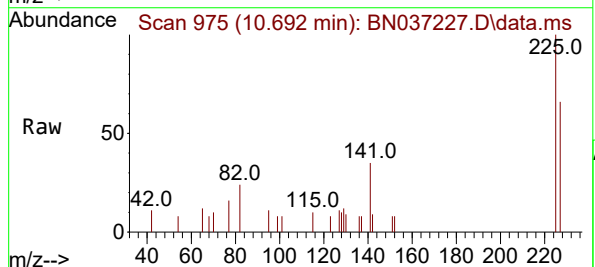
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

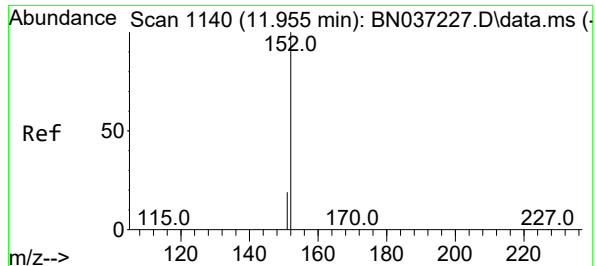
Tgt Ion	128	Resp:	3636
Ion Ratio	Lower	Upper	
128	100		
129	13.4	10.7	16.1
127	15.8	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	225	Resp:	968
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	61.6	49.2	73.8

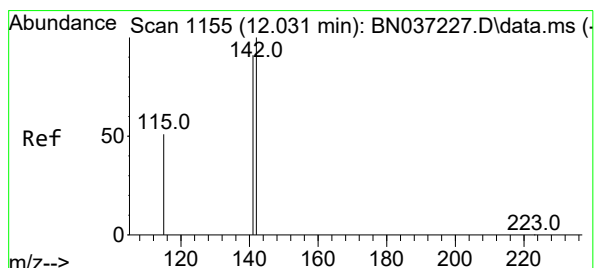
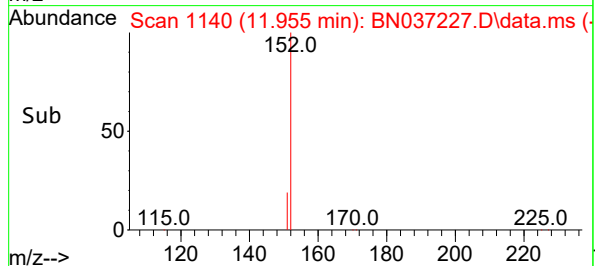
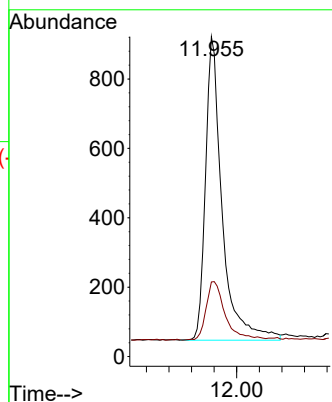
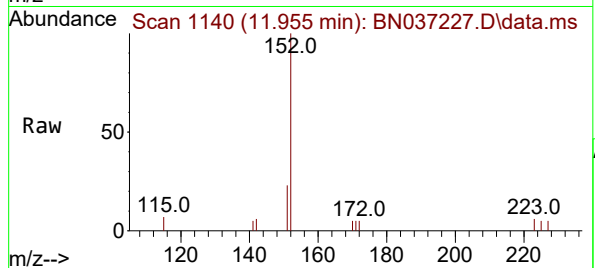




#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

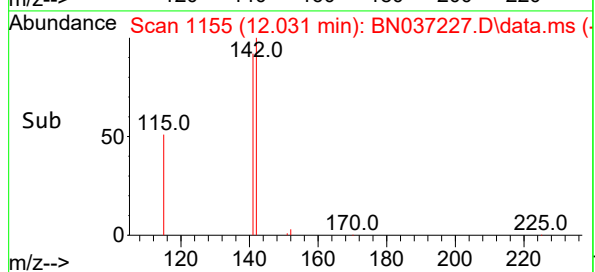
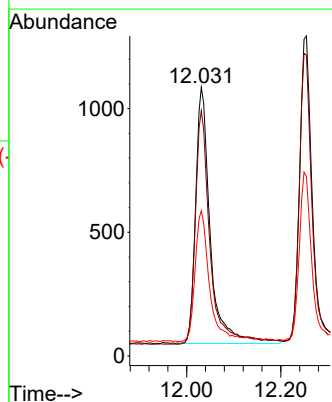
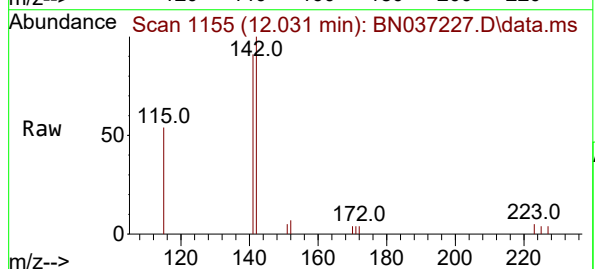
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

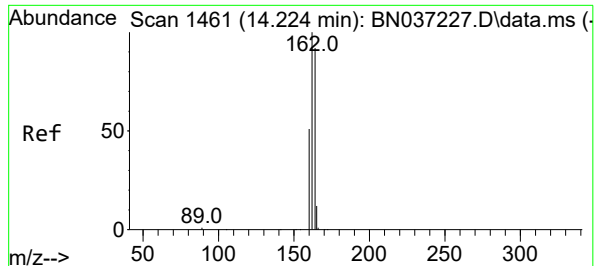
Tgt Ion:152 Resp: 1787
Ion Ratio Lower Upper
152 100
151 22.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.400 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:142 Resp: 2261
Ion Ratio Lower Upper
142 100
141 91.3 73.0 109.6
115 54.1 43.3 64.9

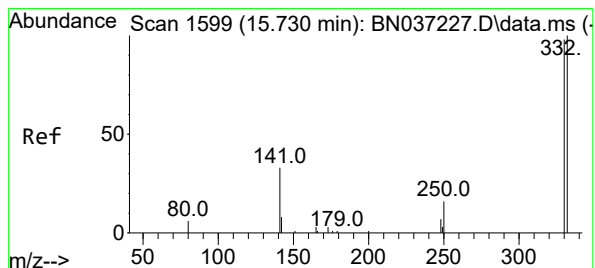
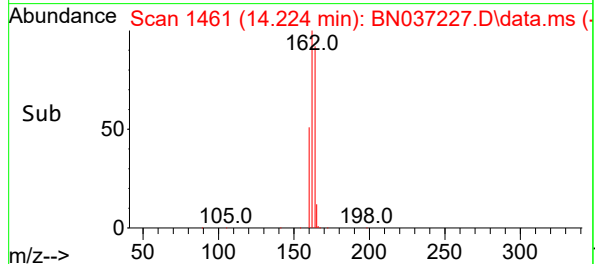
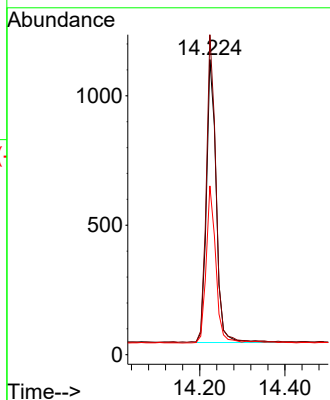
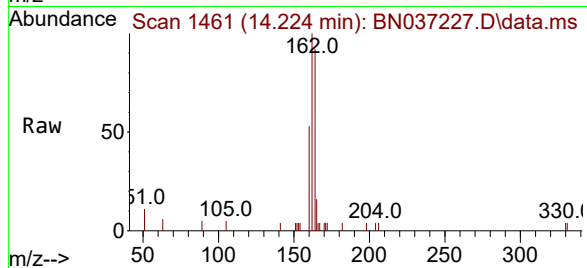




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

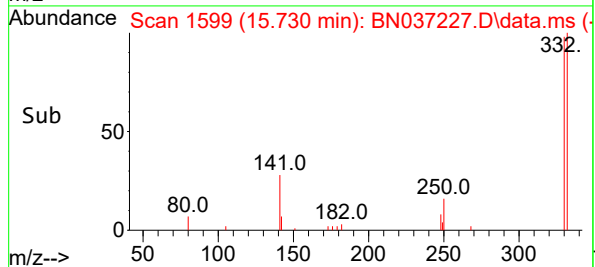
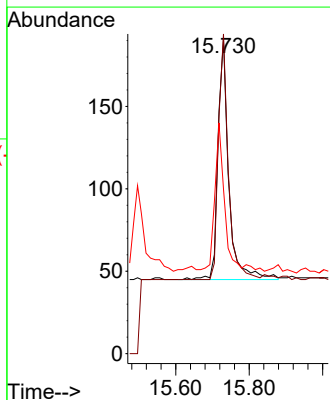
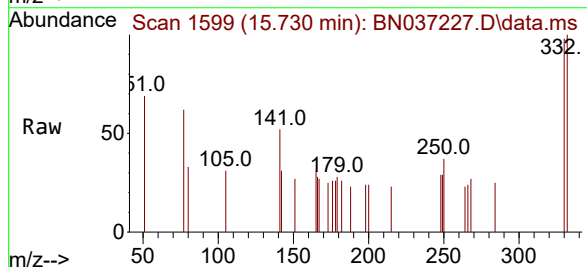
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

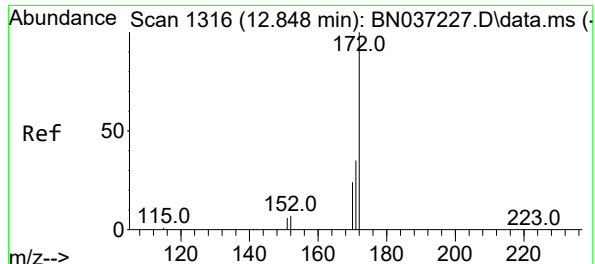
Tgt Ion:164 Resp: 1738
Ion Ratio Lower Upper
164 100
162 108.4 86.7 130.1
160 57.2 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:330 Resp: 298
Ion Ratio Lower Upper
330 100
332 93.6 74.9 112.3
141 56.4 45.1 67.7

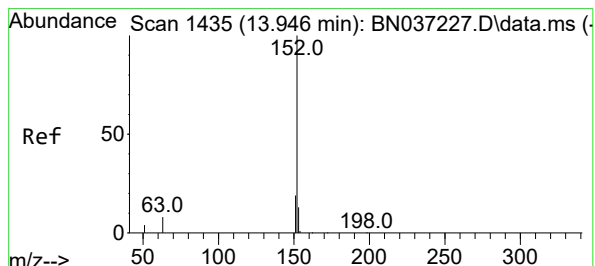
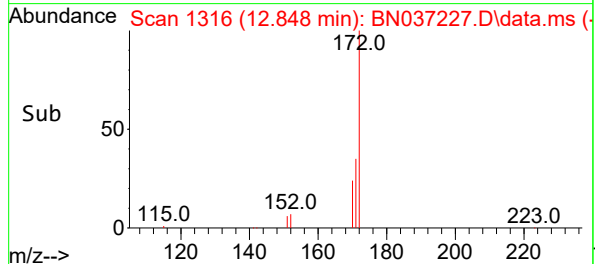
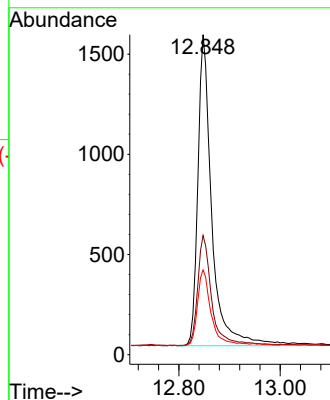
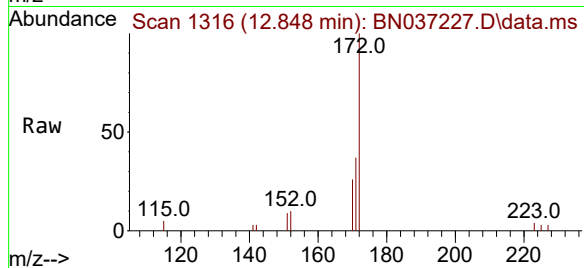




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

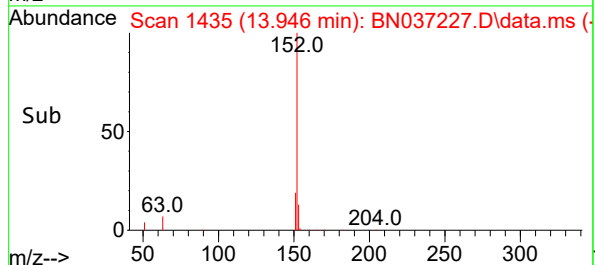
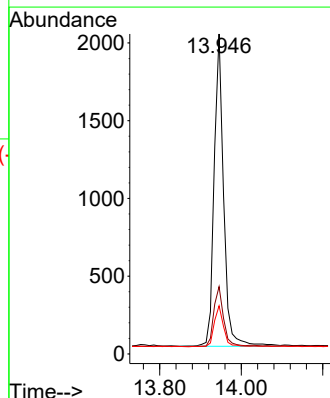
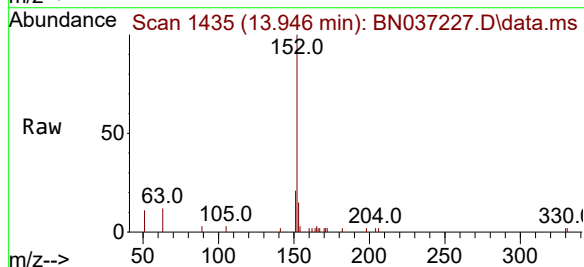
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

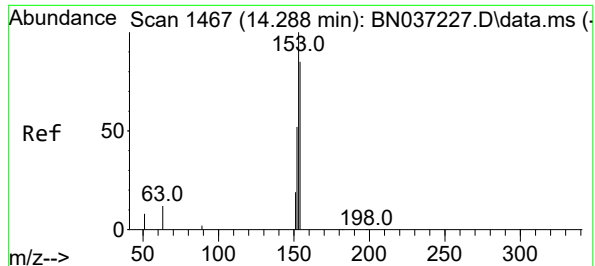
Tgt Ion:172 Resp: 2952
Ion Ratio Lower Upper
172 100
171 37.3 29.8 44.8
170 26.4 21.1 31.7



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:152 Resp: 3250
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 13.4 10.7 16.1

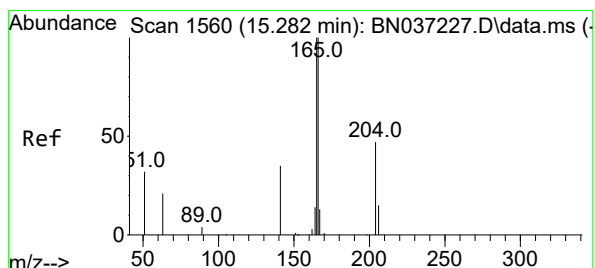
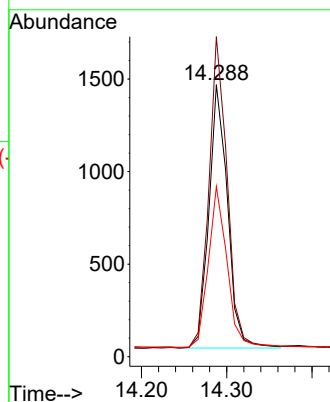
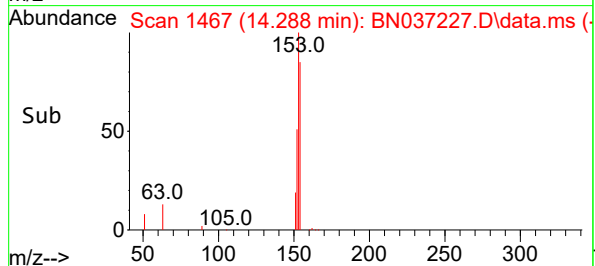
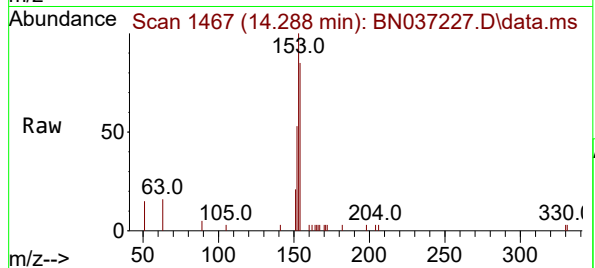




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

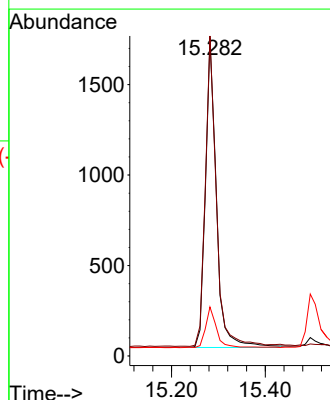
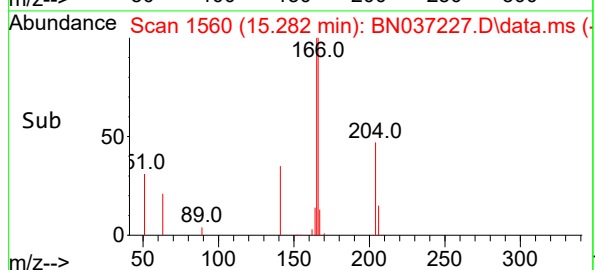
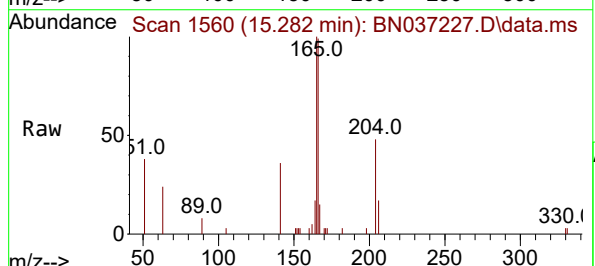
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

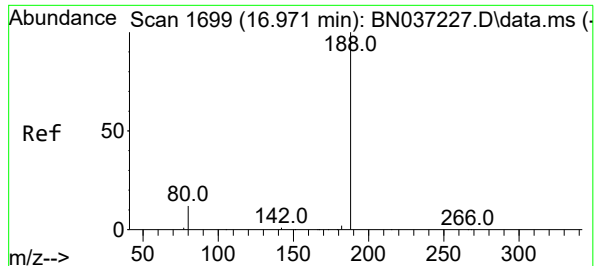
Tgt Ion:154 Resp: 2155
Ion Ratio Lower Upper
154 100
153 118.2 94.6 141.8
152 62.0 49.6 74.4



#18
Fluorene
Concen: 0.392 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:166 Resp: 2768
Ion Ratio Lower Upper
166 100
165 99.7 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

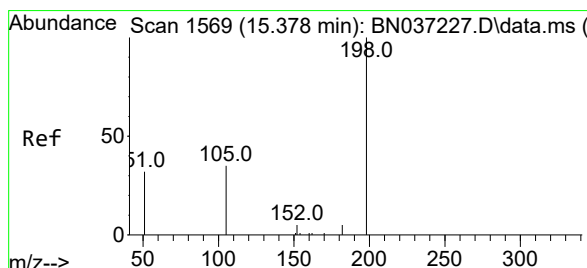
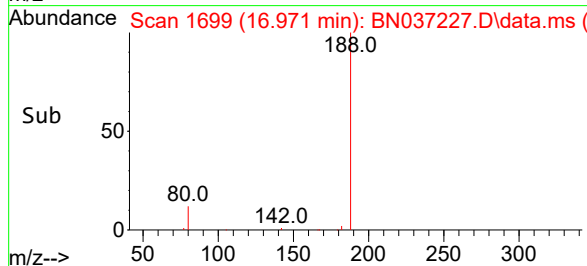
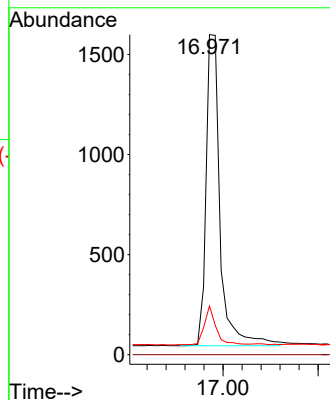
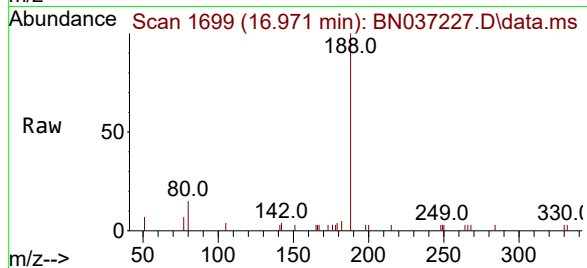
Tgt Ion:188 Resp: 3195

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.3 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.368 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

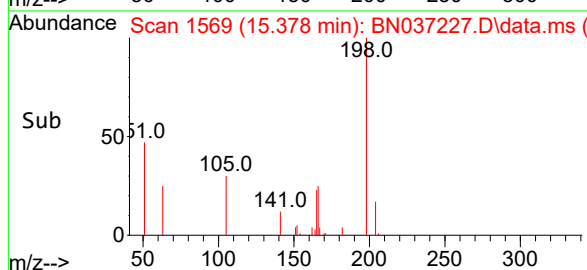
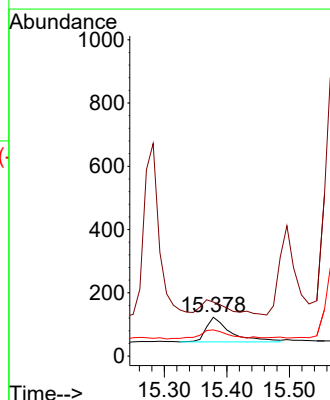
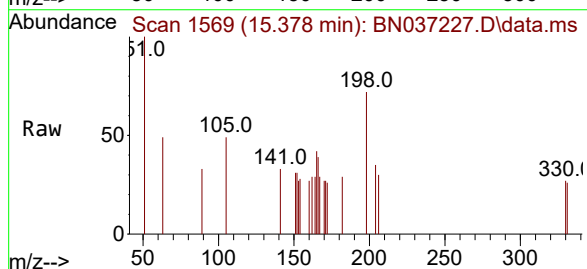
Tgt Ion:198 Resp: 211

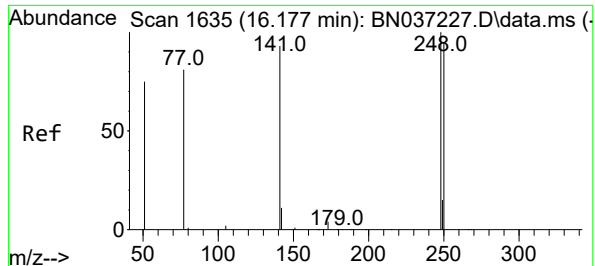
Ion Ratio Lower Upper

198 100

51 139.0 111.2 166.8

105 67.5 54.0 81.0

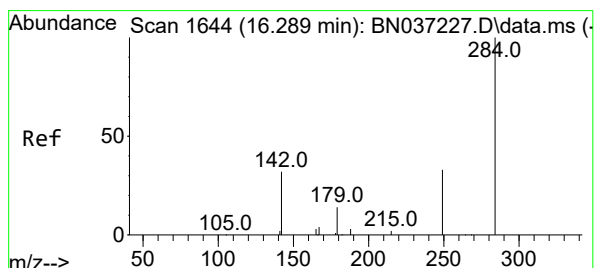
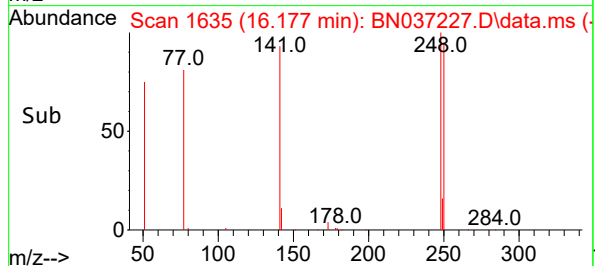
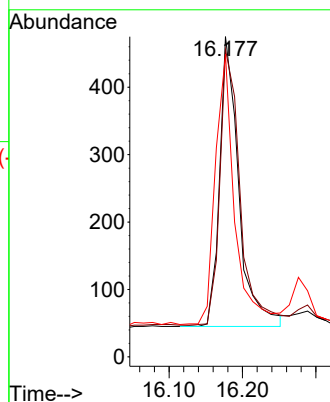
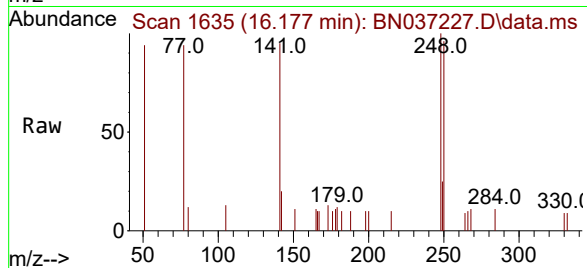




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

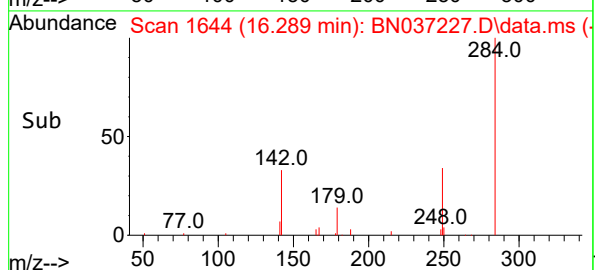
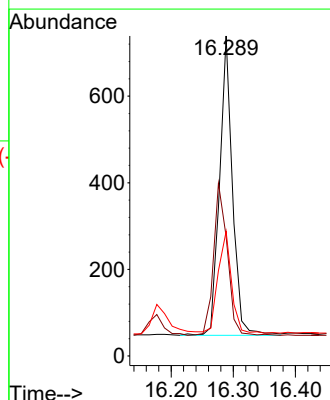
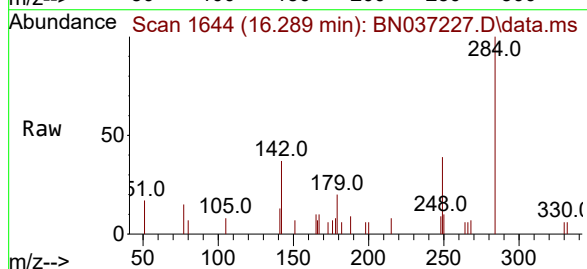
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

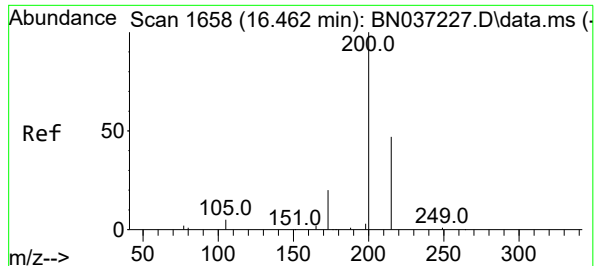
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.0	76.8	115.2
141	94.5	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.7	43.8	65.6
249	35.5	28.4	42.6

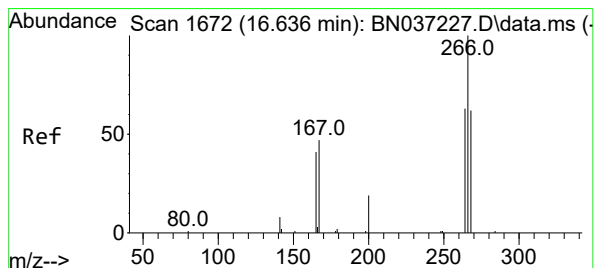
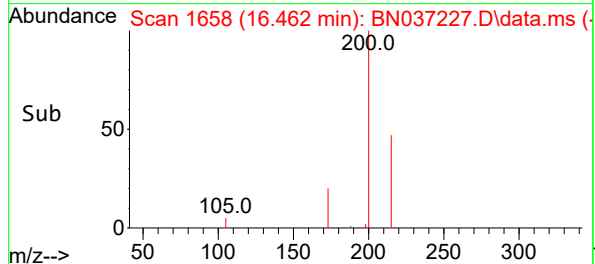
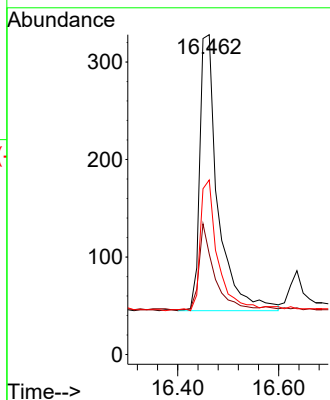
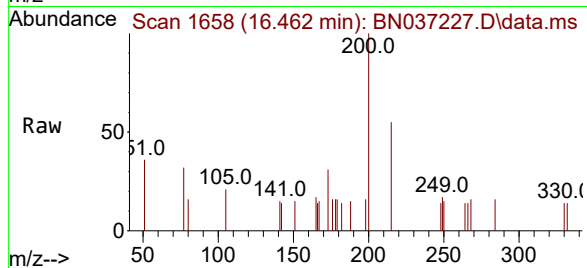




#23
Atrazine
Concen: 0.382 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

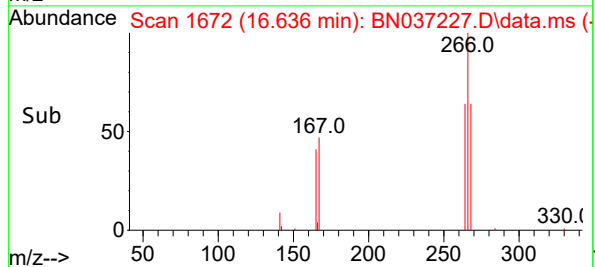
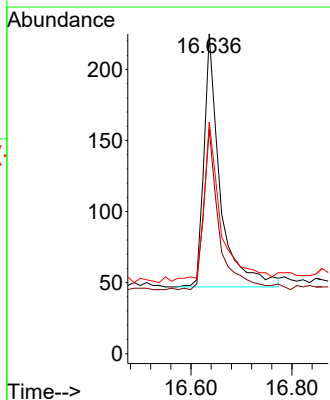
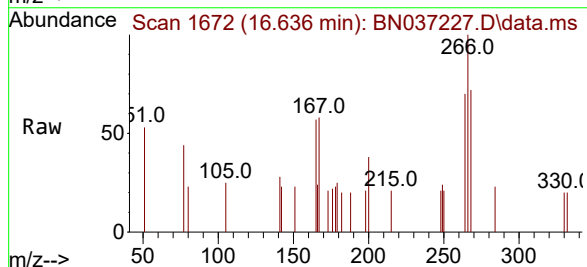
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

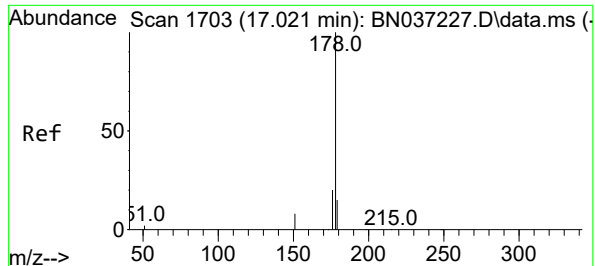
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.4	25.1	37.7
215	54.6	43.7	65.5



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	66.8	53.4	80.2

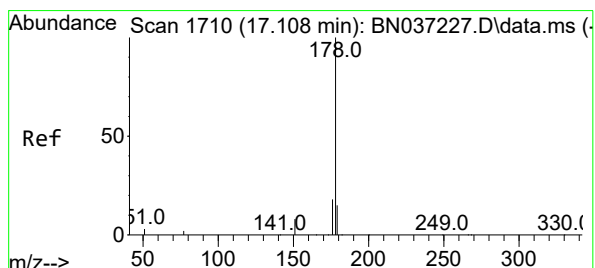
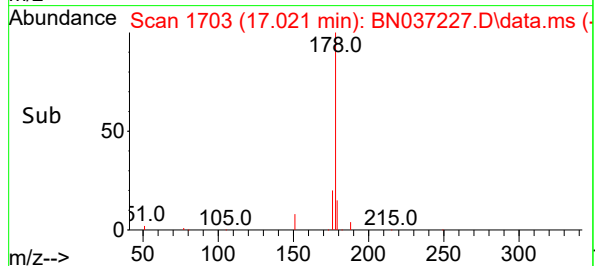
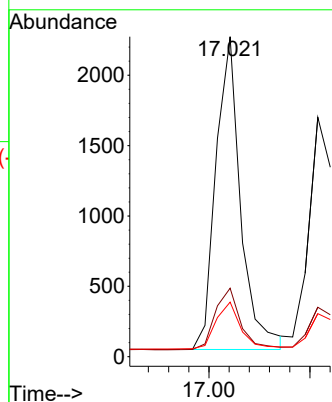
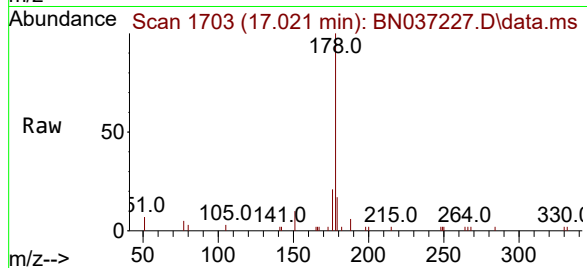




#25
Phenanthrene
Concen: 0.374 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

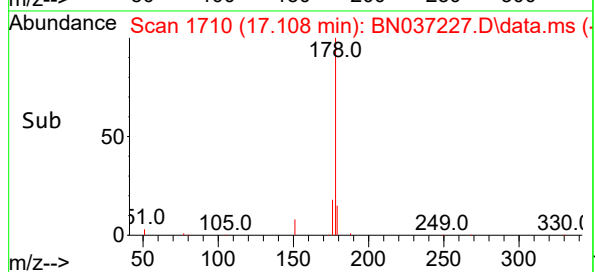
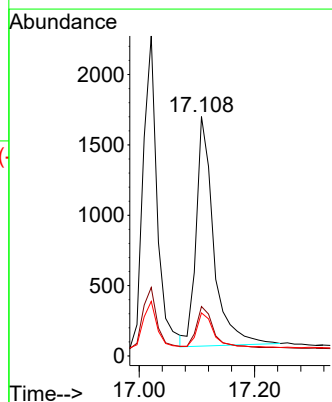
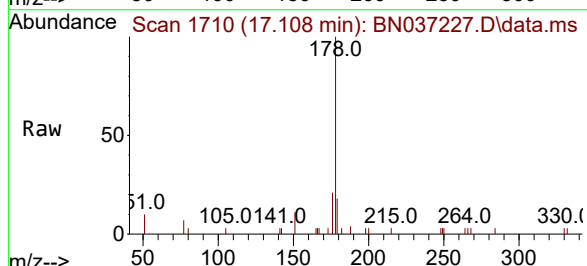
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

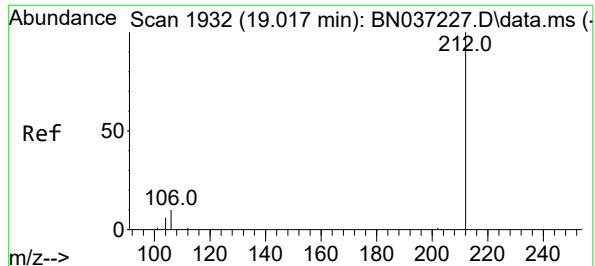
Tgt Ion:178 Resp: 3790
Ion Ratio Lower Upper
178 100
176 20.4 16.3 24.5
179 15.7 12.6 18.8



#26
Anthracene
Concen: 0.372 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:178 Resp: 3450
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

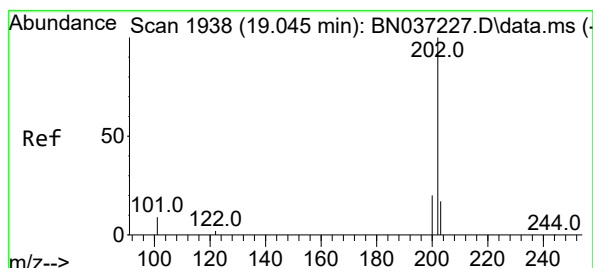
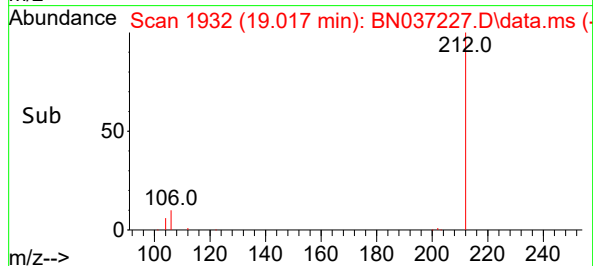
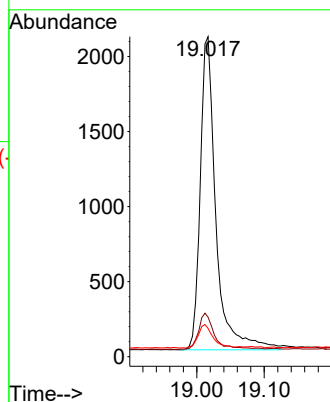
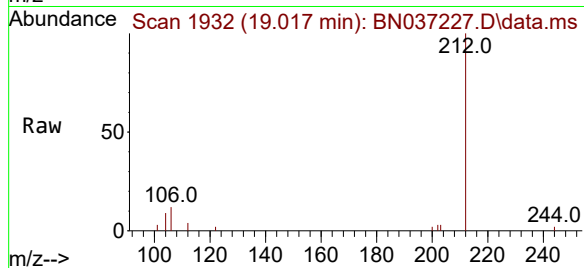
Tgt Ion:212 Resp: 3364

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 7.1 5.7 8.5



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

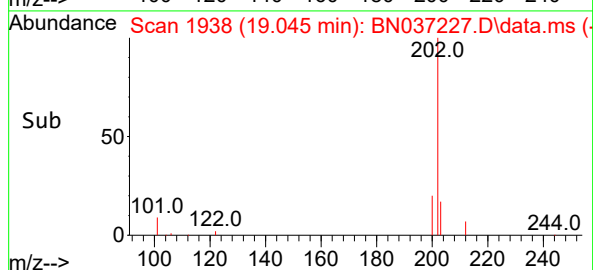
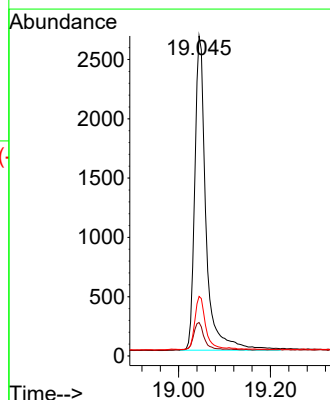
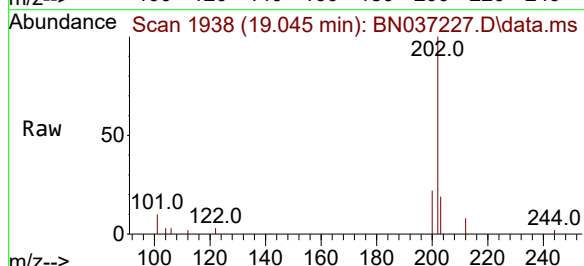
Tgt Ion:202 Resp: 4510

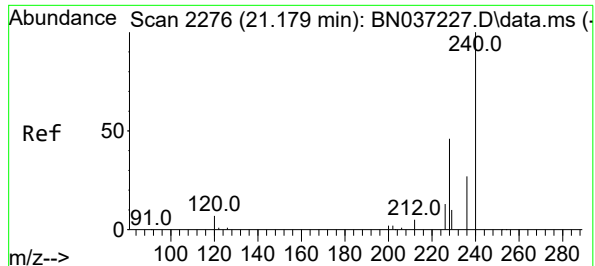
Ion Ratio Lower Upper

202 100

101 8.9 7.1 10.7

203 16.3 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

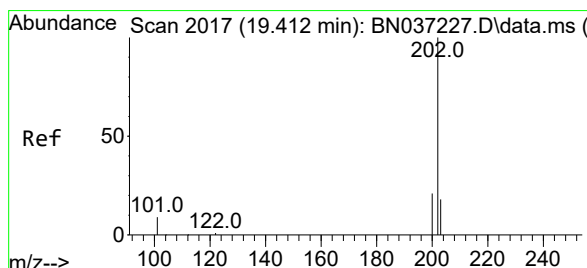
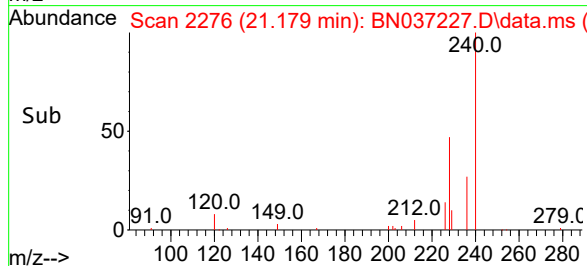
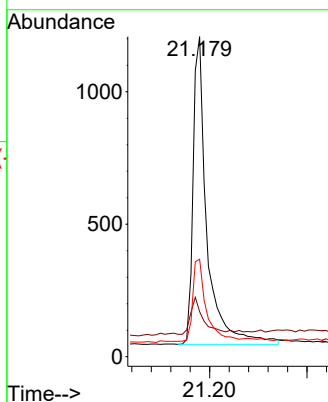
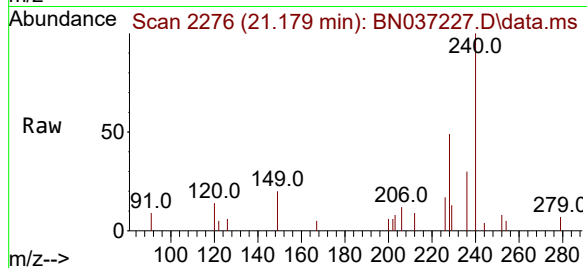
Tgt Ion:240 Resp: 2284

Ion Ratio Lower Upper

240 100

120 14.1 11.3 16.9

236 30.5 24.4 36.6



#30

Pyrene

Concen: 0.417 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

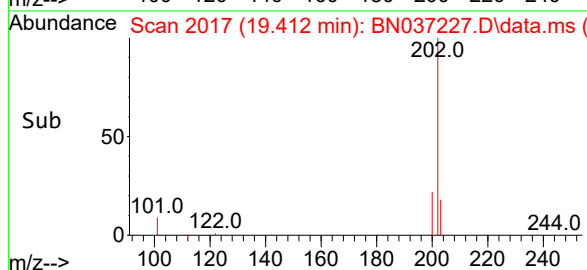
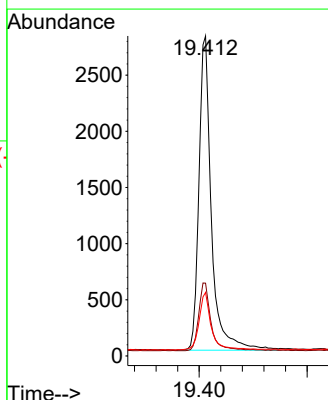
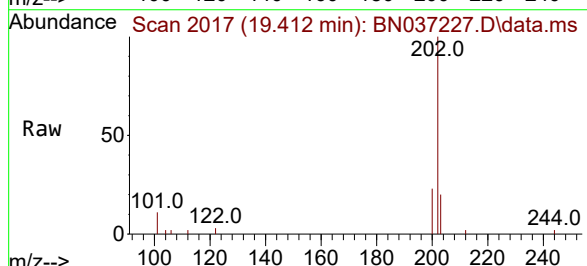
Tgt Ion:202 Resp: 4482

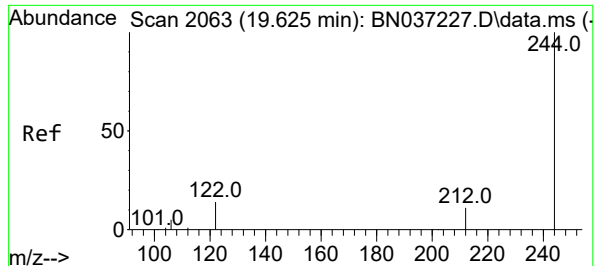
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 17.9 14.3 21.5

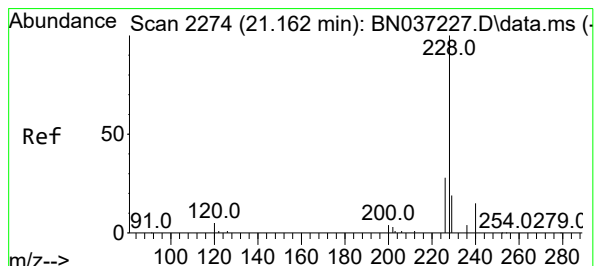
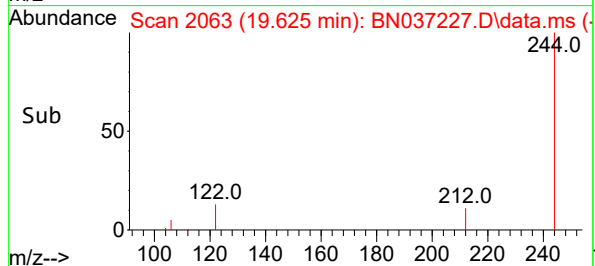
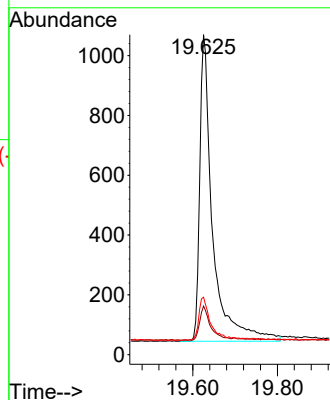
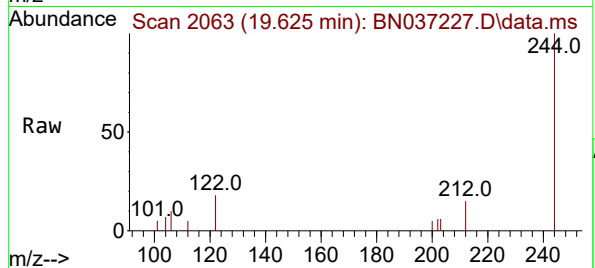




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

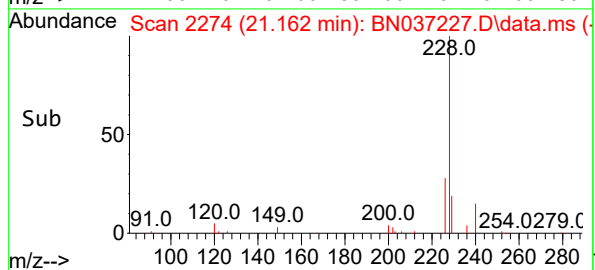
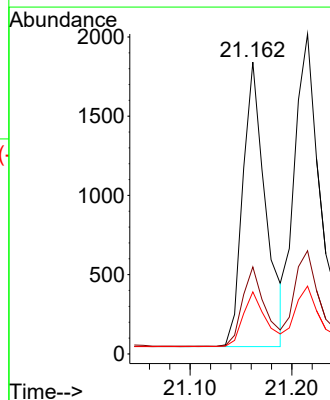
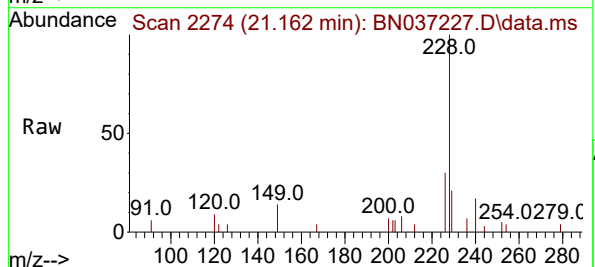
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

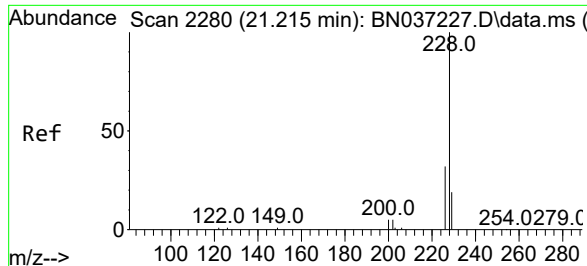
Tgt Ion:244 Resp: 2160
Ion Ratio Lower Upper
244 100
212 15.2 12.2 18.2
122 17.9 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:228 Resp: 2798
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.8
229 21.2 17.0 25.4





#33

Chrysene

Concen: 0.403 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

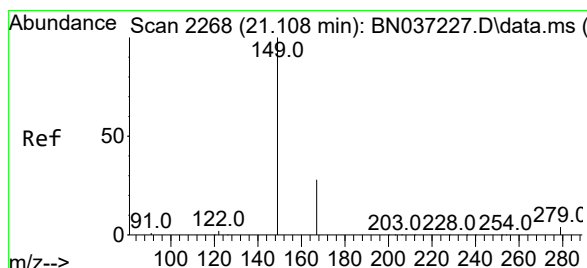
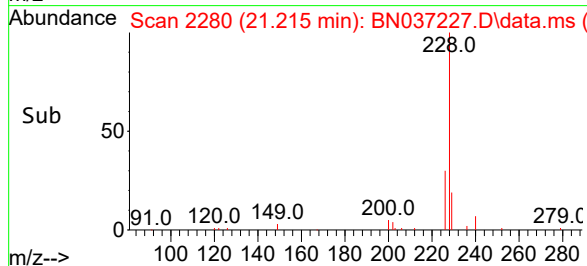
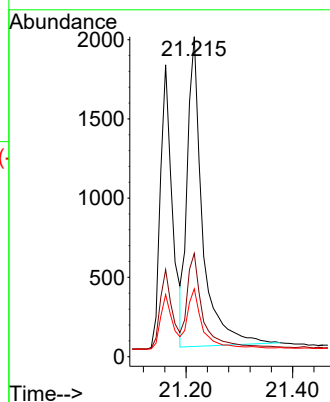
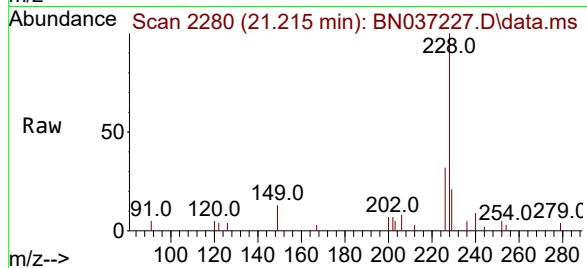
Tgt Ion:228 Resp: 3871

Ion Ratio Lower Upper

228 100

226 32.2 25.8 38.6

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.407 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

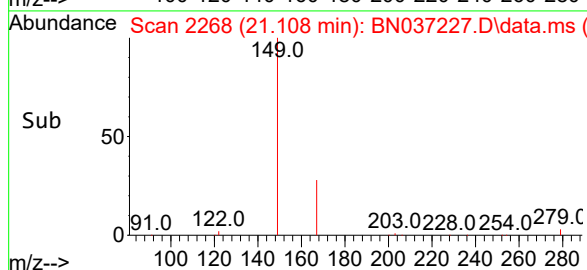
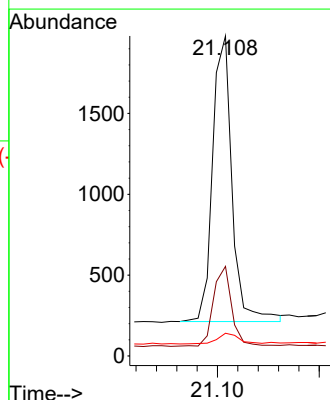
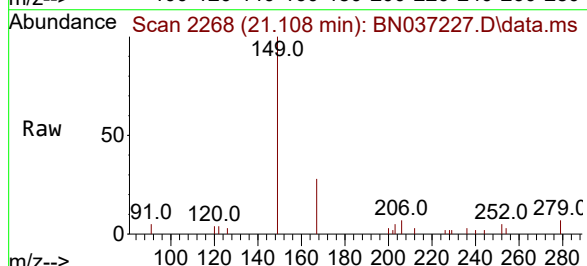
Tgt Ion:149 Resp: 2338

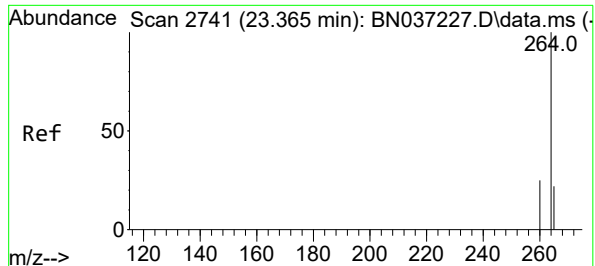
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.1 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

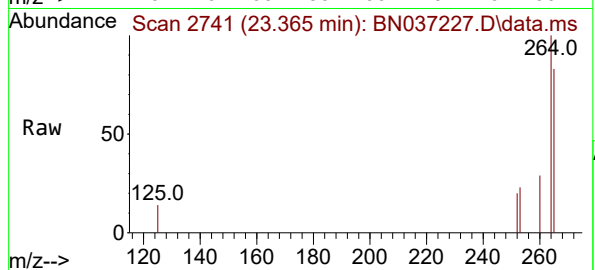
Acq: 13 Jun 2025 14:46

Instrument :

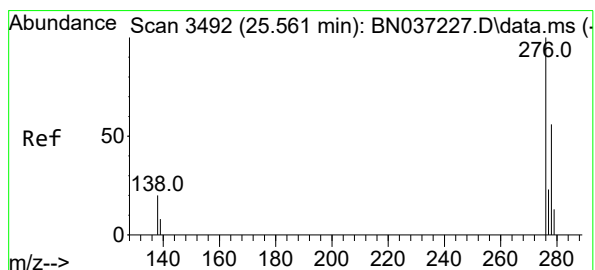
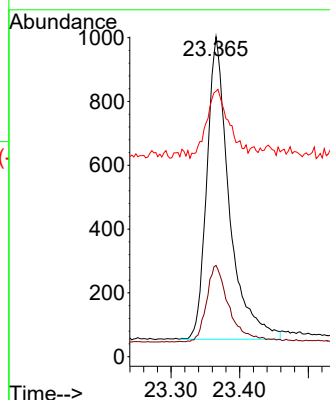
BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:	264	Resp:	2150
Ion Ratio	Lower	Upper	
264	100		
260	28.5	22.8	34.2
265	83.0	66.4	99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

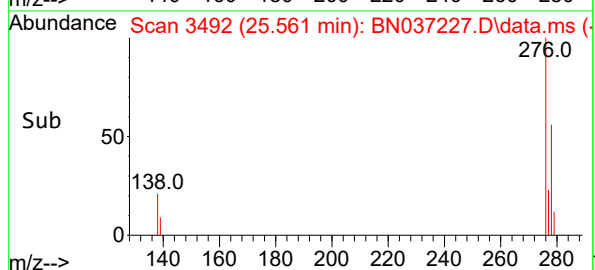
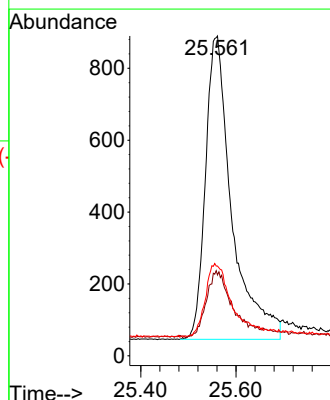
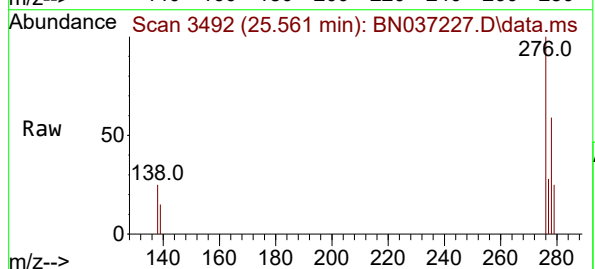
RT: 25.561 min Scan# 3492

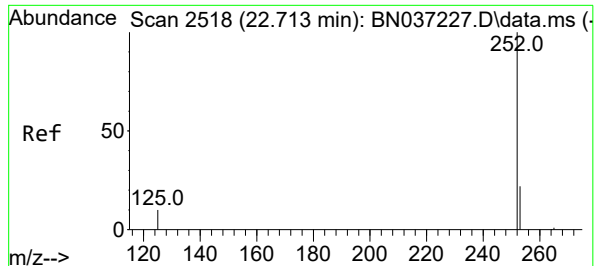
Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Tgt Ion:	276	Resp:	3239
Ion Ratio	Lower	Upper	
276	100		
138	21.0	16.8	25.2
277	24.4	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.376 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

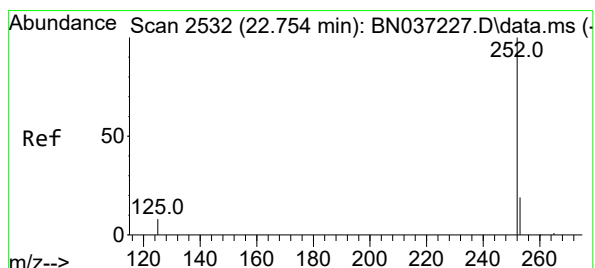
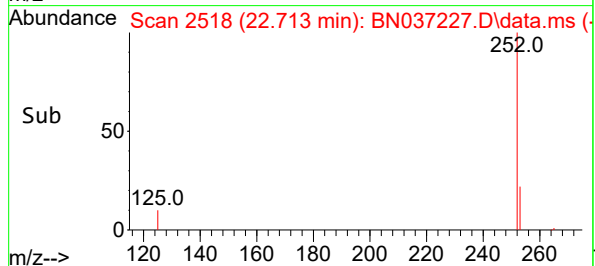
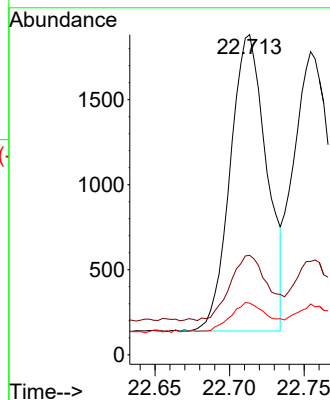
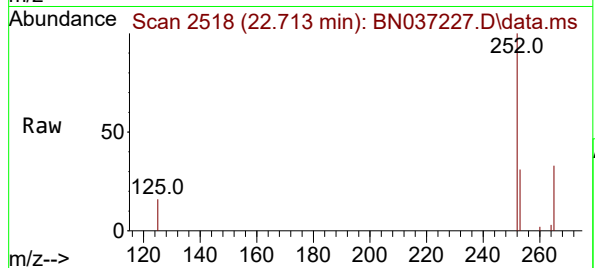
Tgt Ion:252 Resp: 2958

Ion Ratio Lower Upper

252 100

253 31.1 24.9 37.3

125 16.1 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

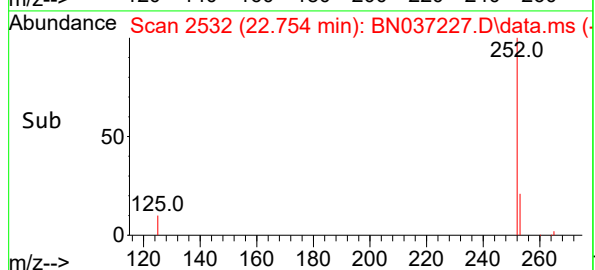
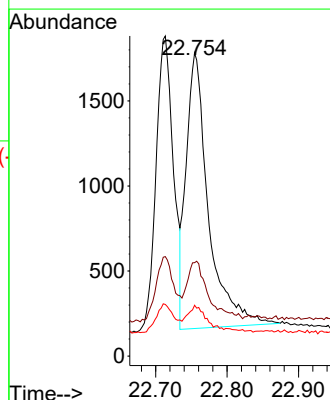
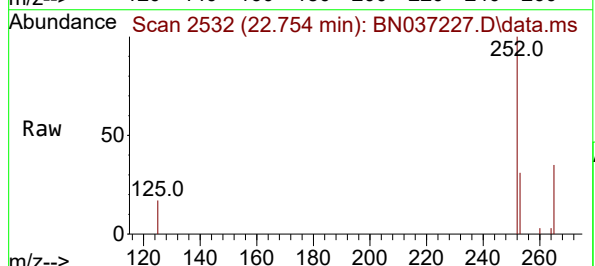
Tgt Ion:252 Resp: 3501

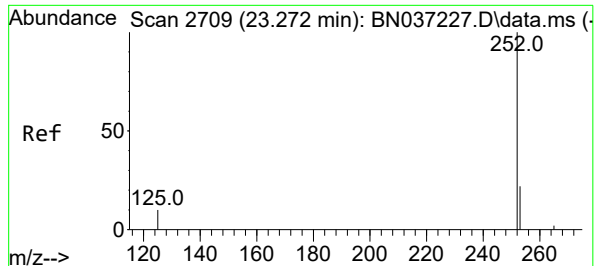
Ion Ratio Lower Upper

252 100

253 30.8 24.6 37.0

125 16.8 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

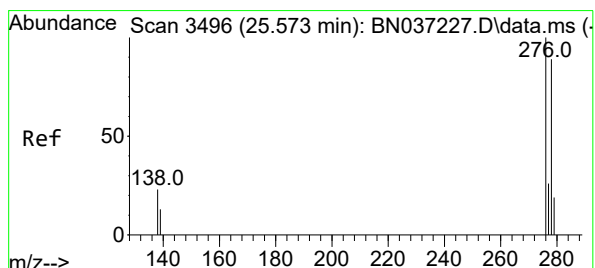
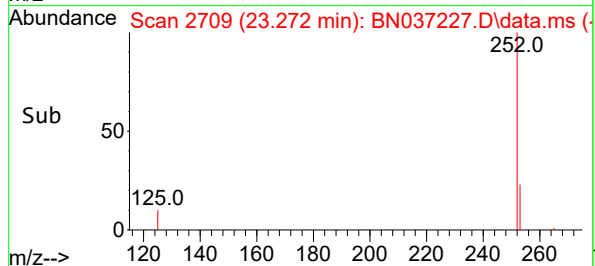
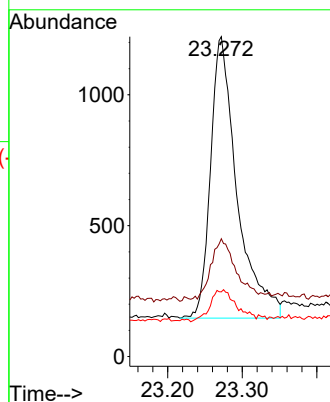
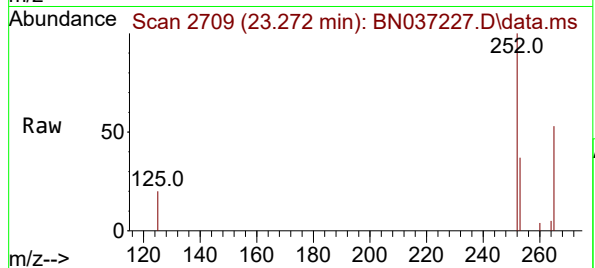
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 36.8 29.4 44.2

125 20.2 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

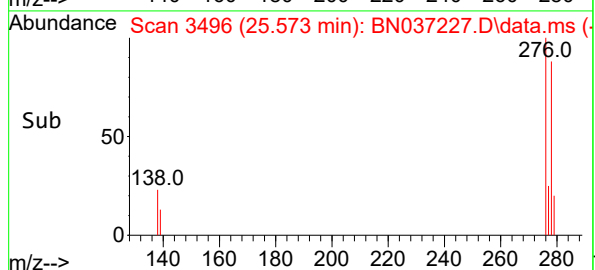
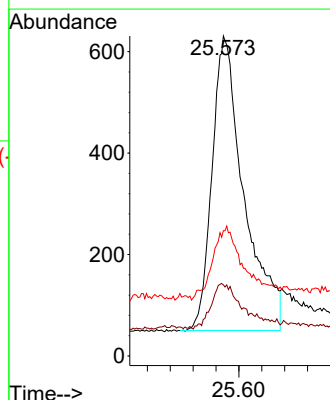
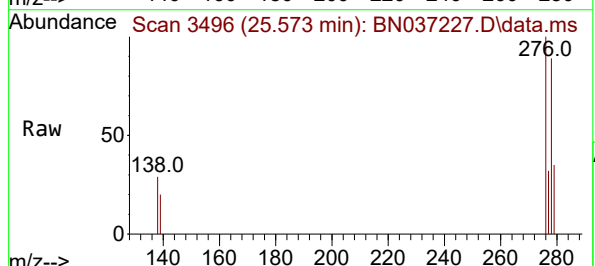
Tgt Ion:278 Resp: 2256

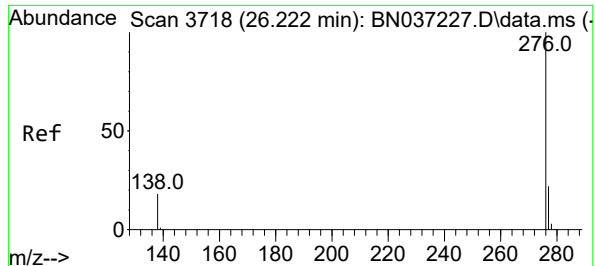
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 39.1 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.222 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037227.D

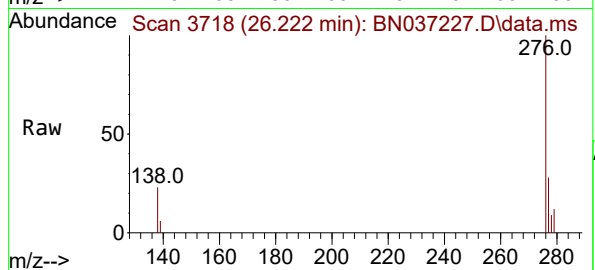
Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



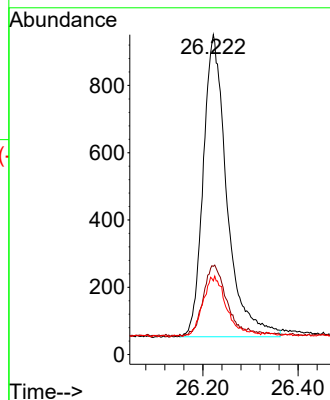
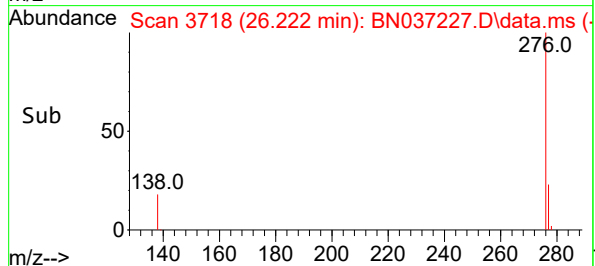
Tgt Ion:276 Resp: 3099

Ion Ratio Lower Upper

276 100

277 27.5 22.0 33.0

138 23.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037228.D
 Acq On : 13 Jun 2025 15:22
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

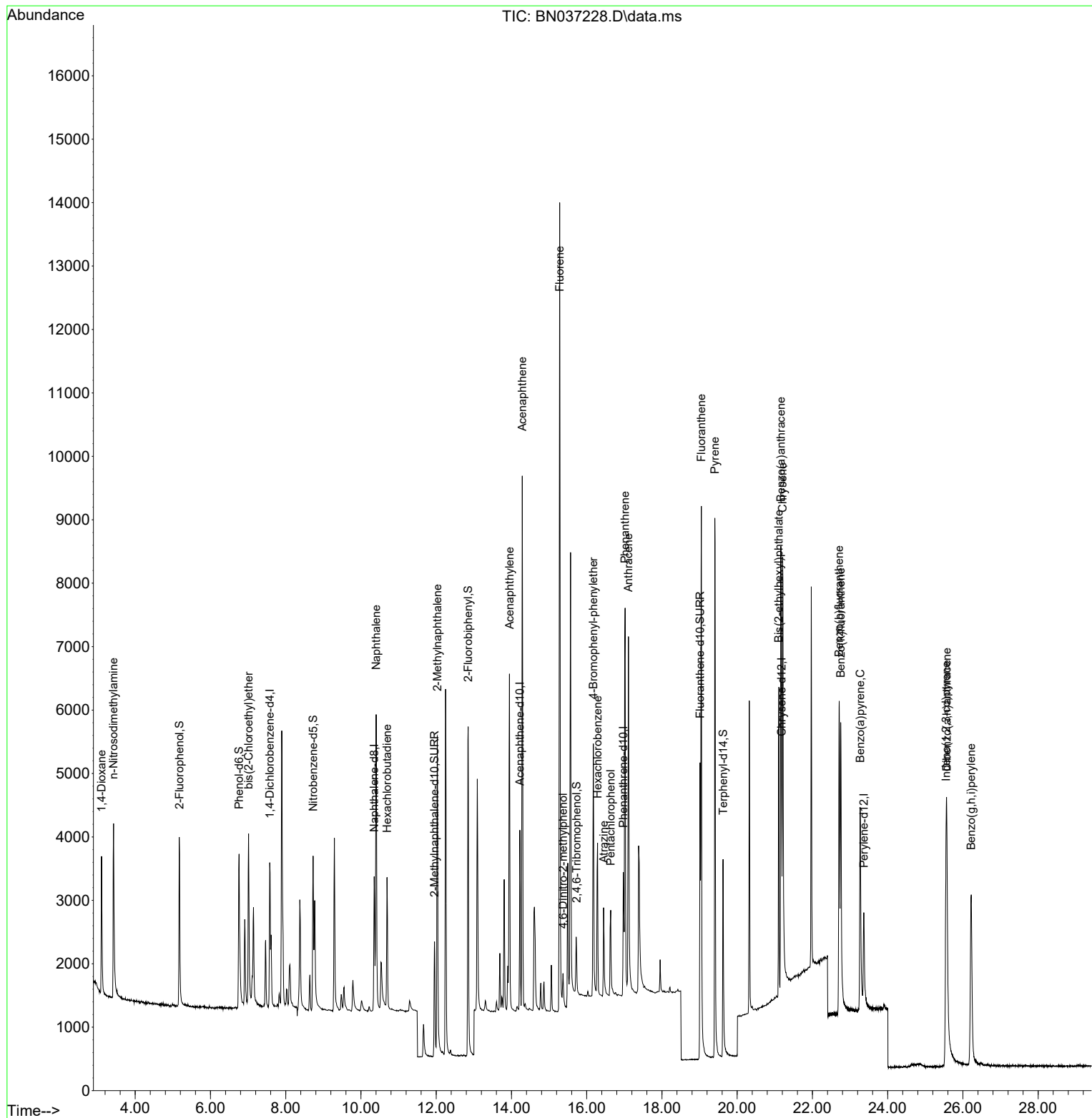
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1134	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2810	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1528	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2916	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2294	0.400	ng	0.00
35) Perylene-d12	23.365	264	2157	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2057	0.739	ng	0.00
5) Phenol-d6	6.759	99	2237	0.762	ng	0.00
8) Nitrobenzene-d5	8.728	82	2118	0.763	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2923	0.775	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	524	0.826	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	5066	0.789	ng	0.00
27) Fluoranthene-d10	19.012	212	5930	0.777	ng	0.00
31) Terphenyl-d14	19.625	244	3995	0.770	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	1213	0.780	ng	91
3) n-Nitrosodimethylamine	3.422	42	2739	0.773	ng	98
6) bis(2-Chloroethyl)ether	7.011	93	2165	0.823	ng	90
9) Naphthalene	10.404	128	6231	0.766	ng	97
10) Hexachlorobutadiene	10.692	225	1523	0.769	ng	# 97
12) 2-Methylnaphthalene	12.031	142	3926	0.794	ng	99
16) Acenaphthylene	13.946	152	5851	0.781	ng	99
17) Acenaphthene	14.288	154	3758	0.778	ng	100
18) Fluorene	15.282	166	4919	0.792	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	499	0.762	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	1493	0.786	ng	91
22) Hexachlorobenzene	16.289	284	1655	0.751	ng	97
23) Atrazine	16.450	200	1327	0.783	ng	93
24) Pentachlorophenol	16.636	266	800	0.741	ng	99
25) Phenanthrene	17.021	178	7220	0.781	ng	99
26) Anthracene	17.108	178	6635	0.784	ng	99
28) Fluoranthene	19.045	202	8450	0.781	ng	99
30) Pyrene	19.407	202	8483	0.787	ng	99
32) Benzo(a)anthracene	21.162	228	6109	0.789	ng	98
33) Chrysene	21.206	228	7421	0.769	ng	99
34) Bis(2-ethylhexyl)phtha...	21.108	149	4590	0.796	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	6412	0.737	ng	# 88
37) Benzo(b)fluoranthene	22.711	252	6280	0.796	ng	91
38) Benzo(k)fluoranthene	22.752	252	7192	0.795	ng	# 92
39) Benzo(a)pyrene	23.269	252	5598	0.789	ng	# 88
40) Dibenzo(a,h)anthracene	25.570	278	4824	0.736	ng	# 88
41) Benzo(g,h,i)perylene	26.219	276	5978	0.741	ng	98

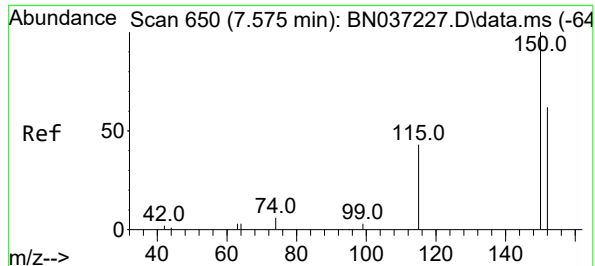
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037228.D
 Acq On : 13 Jun 2025 15:22
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

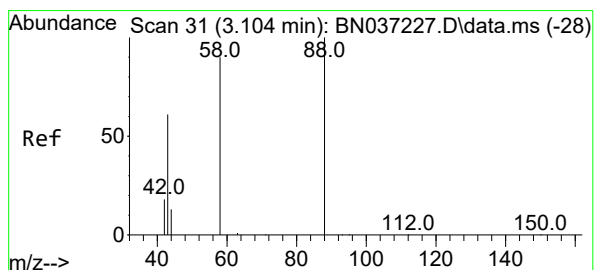
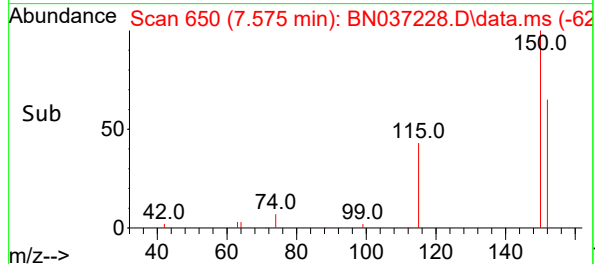
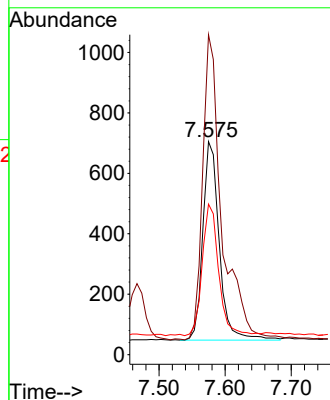
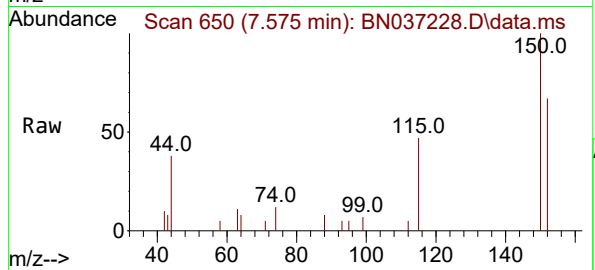




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

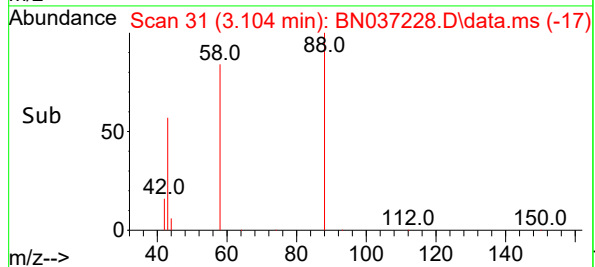
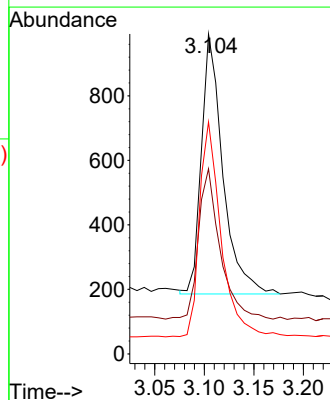
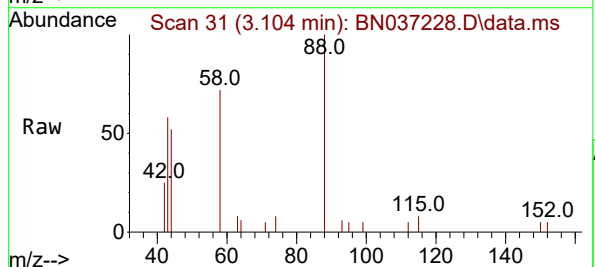
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

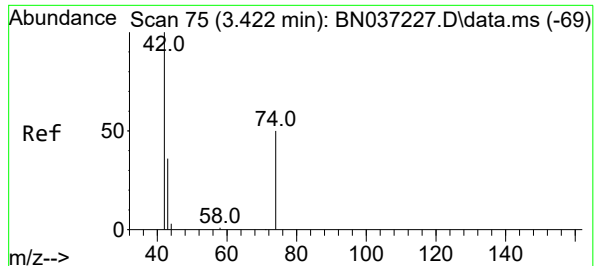
Tgt Ion:152 Resp: 1134
Ion Ratio Lower Upper
152 100
150 150.2 125.2 187.8
115 70.6 58.4 87.6



#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 88 Resp: 1213
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 83.3 73.5 110.3

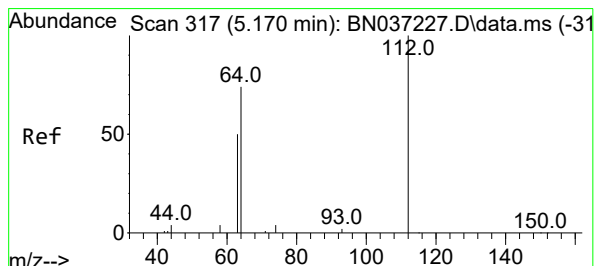
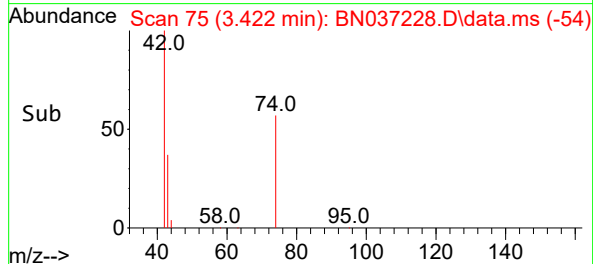
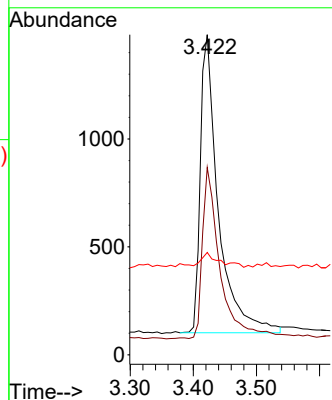
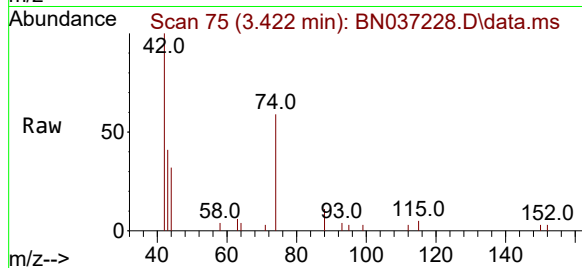




#3
n-Nitrosodimethylamine
Concen: 0.773 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

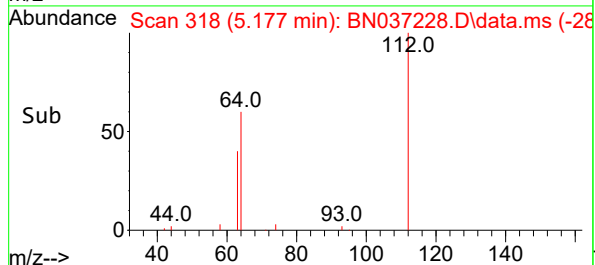
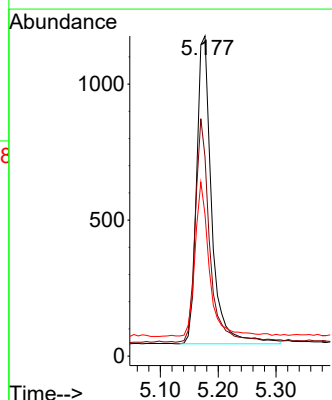
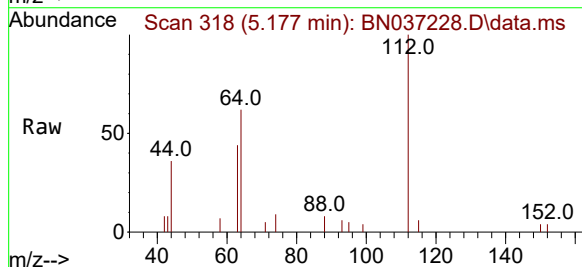
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

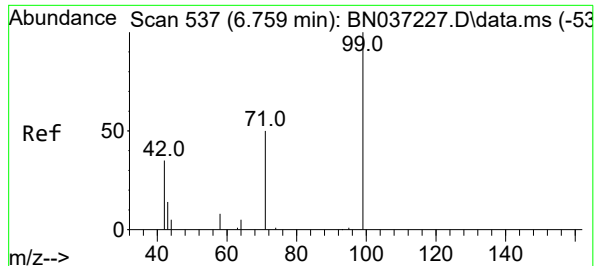
Tgt Ion: 42 Resp: 2739
Ion Ratio Lower Upper
42 100
74 56.8 44.6 66.8
44 4.9 3.5 5.3



#4
2-Fluorophenol
Concen: 0.739 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 112 Resp: 2057
Ion Ratio Lower Upper
112 100
64 70.2 57.2 85.8
63 46.4 39.8 59.6

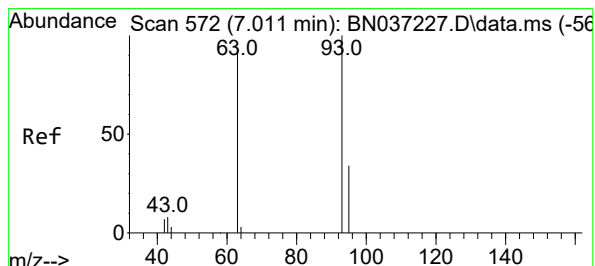
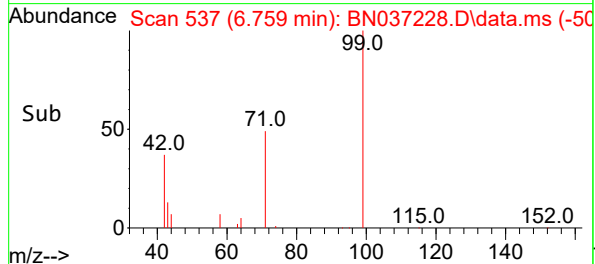
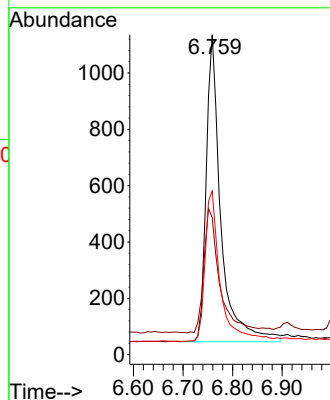
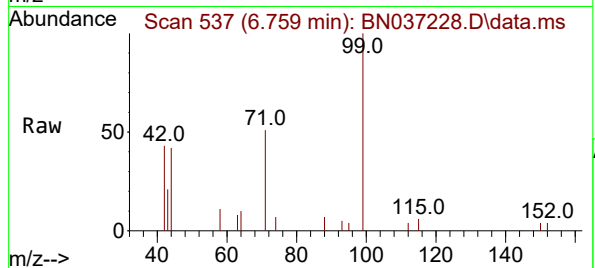




#5
Phenol-d6
Concen: 0.762 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

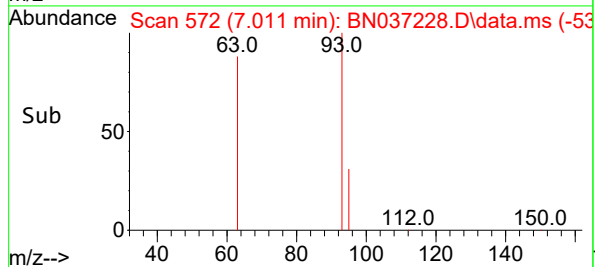
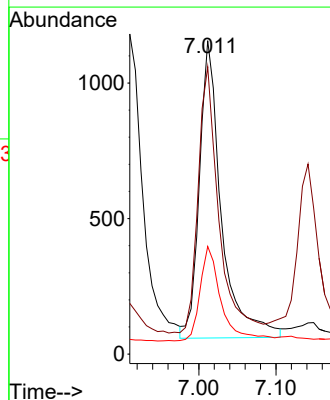
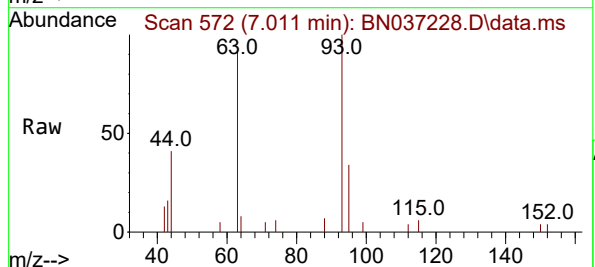
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

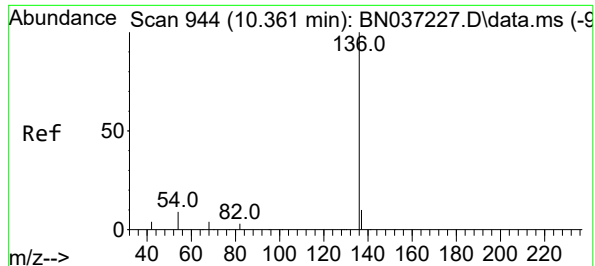
Tgt Ion: 99 Resp: 2237
Ion Ratio Lower Upper
99 100
42 43.8 36.2 54.4
71 50.7 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.823 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 93 Resp: 2165
Ion Ratio Lower Upper
93 100
63 83.9 75.2 112.8
95 30.8 28.3 42.5

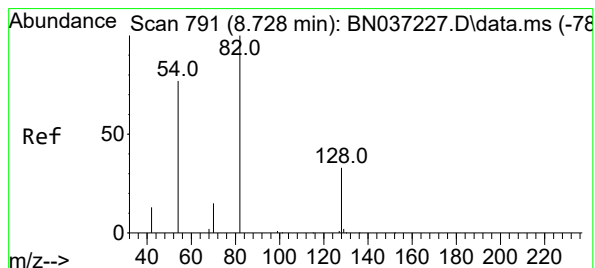
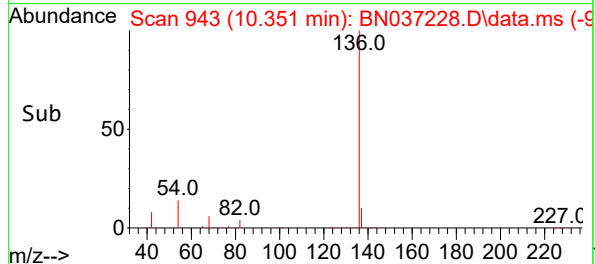
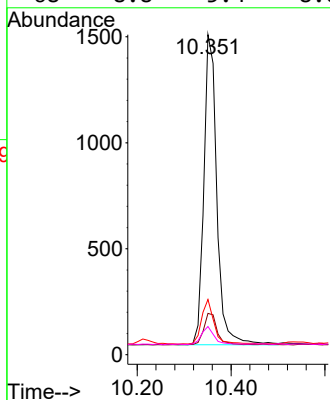
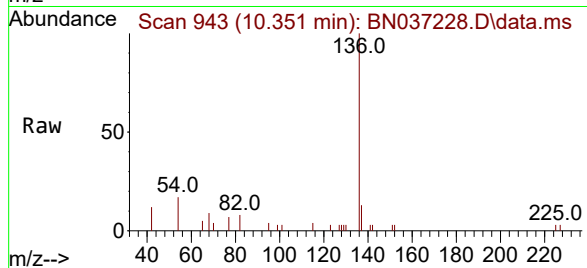




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

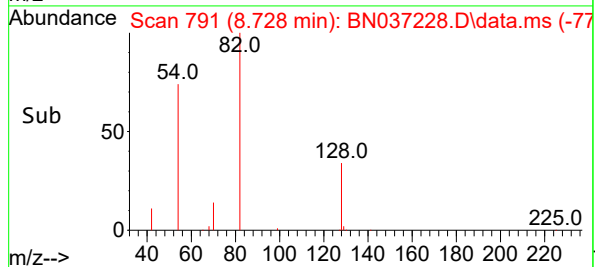
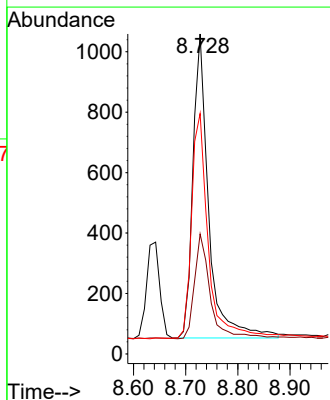
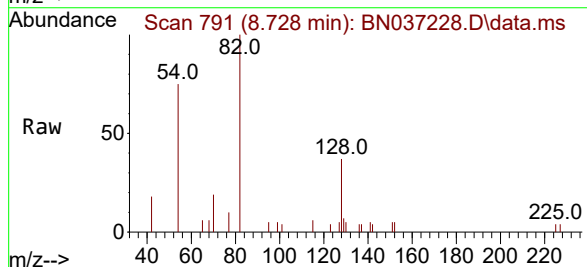
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

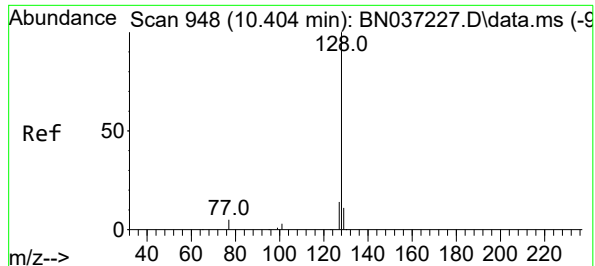
Tgt Ion:	136	Resp:	2810
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	17.3	9.2	13.8#
68	8.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.763 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:	82	Resp:	2118
Ion	Ratio	Lower	Upper
82	100		
128	37.5	31.2	46.8
54	75.2	63.3	94.9

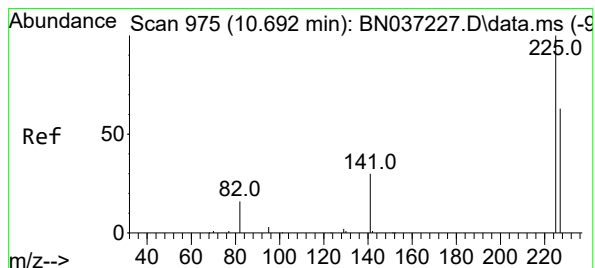
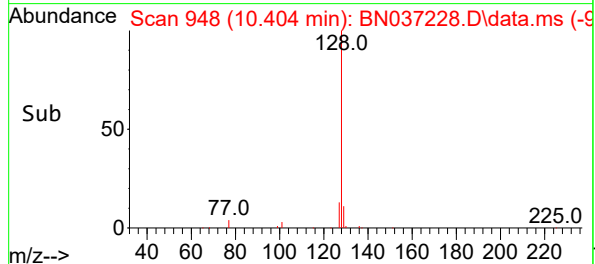
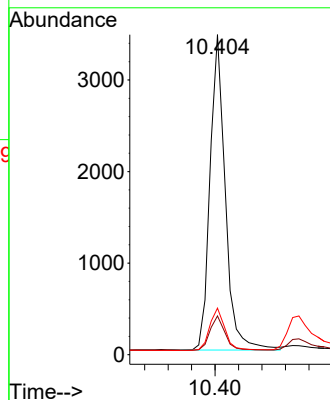
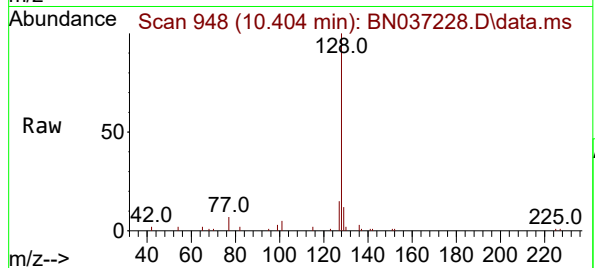




#9
Naphthalene
Concen: 0.766 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

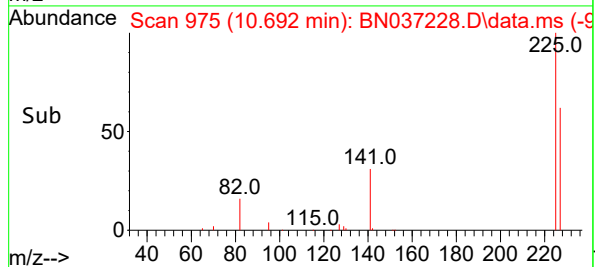
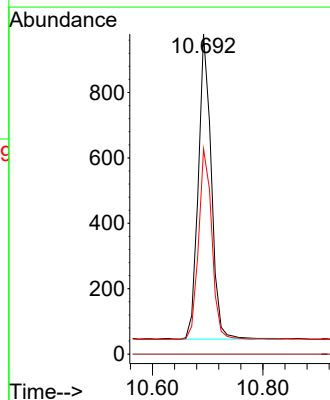
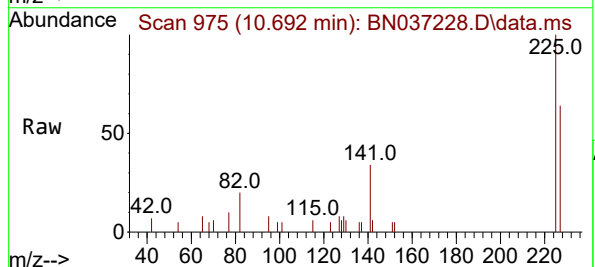
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

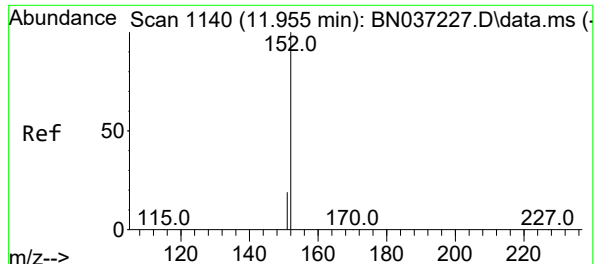
Tgt Ion:128 Resp: 6231
Ion Ratio Lower Upper
128 100
129 12.1 10.7 16.1
127 14.5 12.6 19.0



#10
Hexachlorobutadiene
Concen: 0.769 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:225 Resp: 1523
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 49.2 73.8

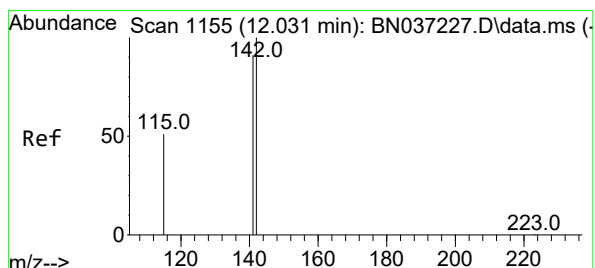
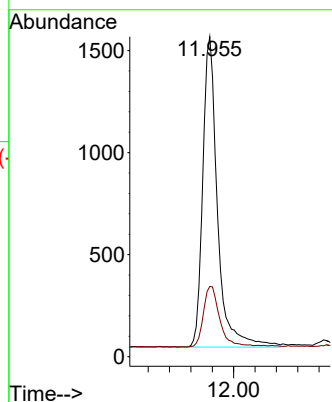
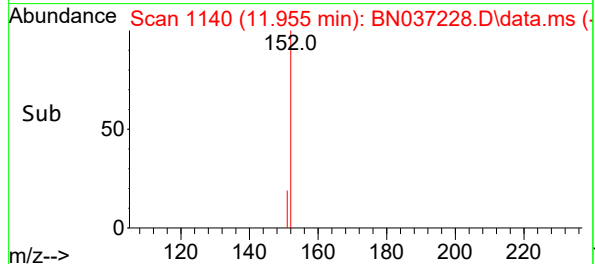
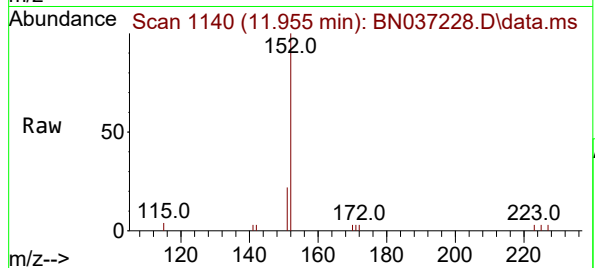




#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

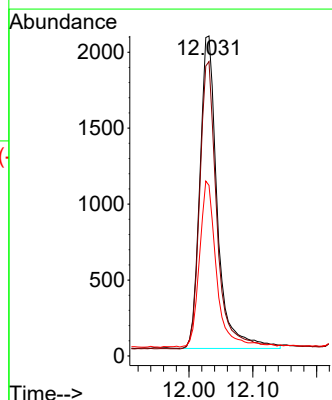
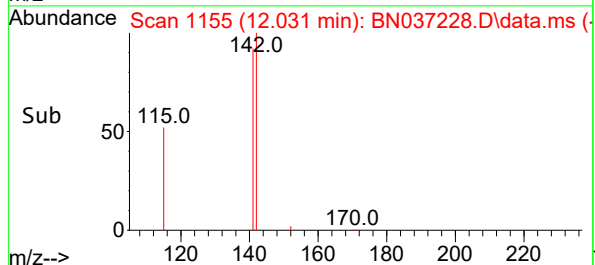
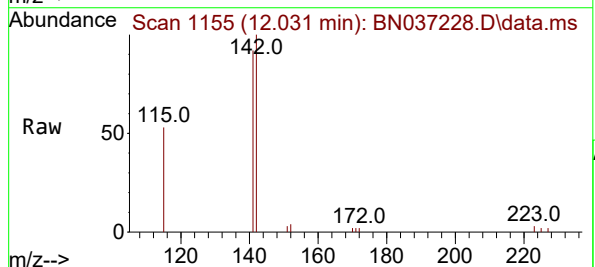
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

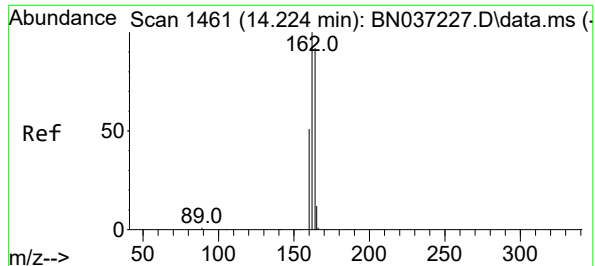
Tgt Ion:152 Resp: 2923
Ion Ratio Lower Upper
152 100
151 21.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.794 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:142 Resp: 3926
Ion Ratio Lower Upper
142 100
141 92.0 73.0 109.6
115 53.3 43.3 64.9

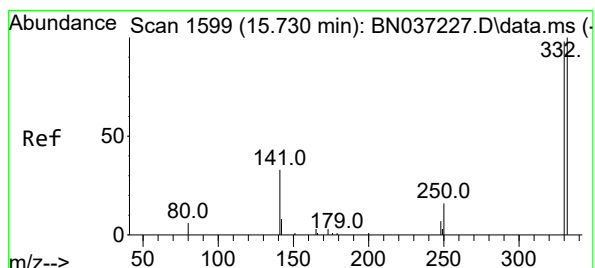
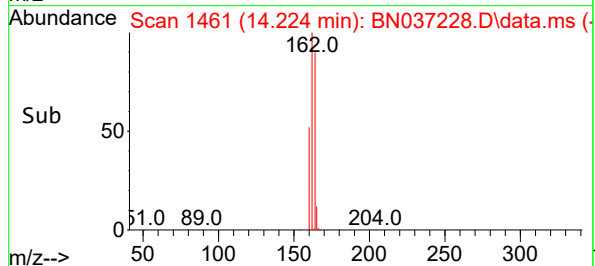
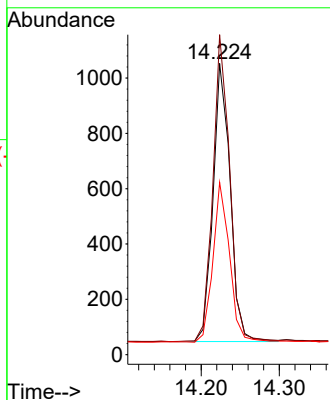
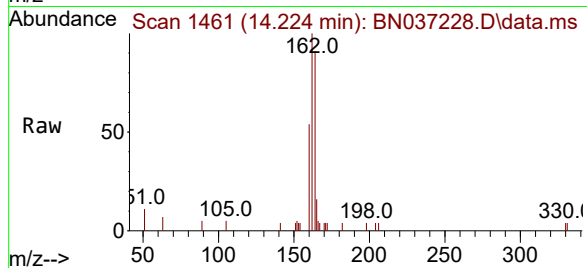




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

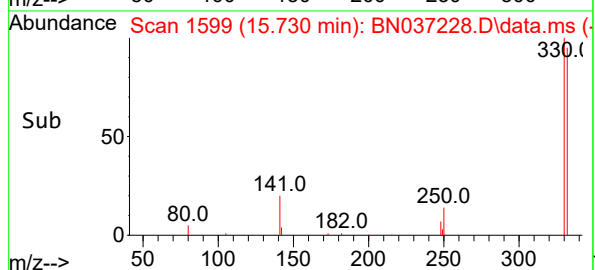
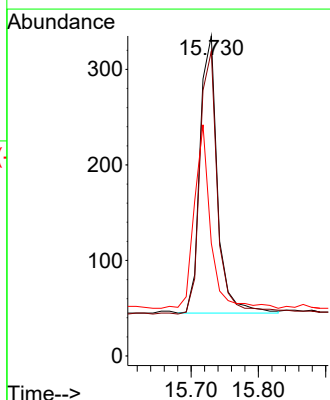
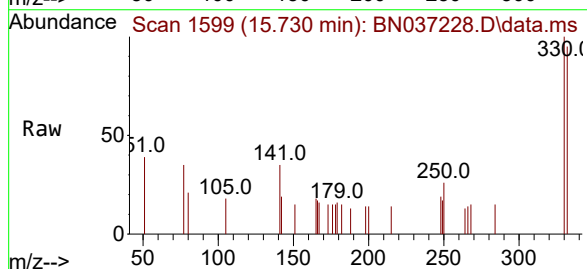
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

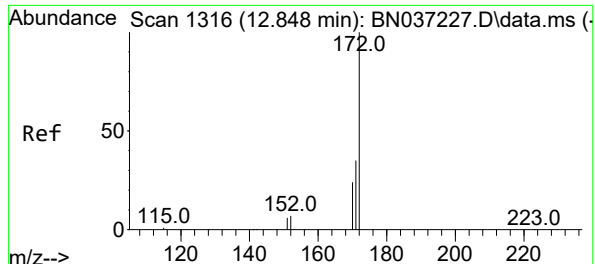
Tgt Ion:164 Resp: 1528
Ion Ratio Lower Upper
164 100
162 109.9 86.7 130.1
160 59.2 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.826 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:330 Resp: 524
Ion Ratio Lower Upper
330 100
332 98.1 74.9 112.3
141 61.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.789 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

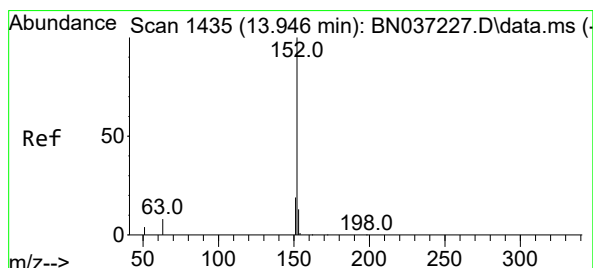
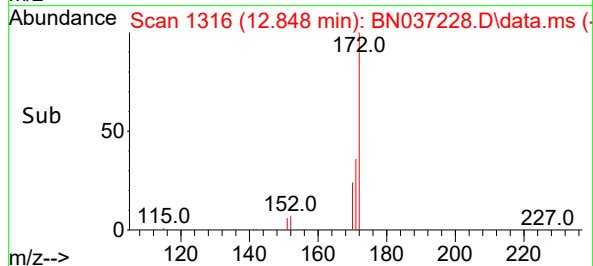
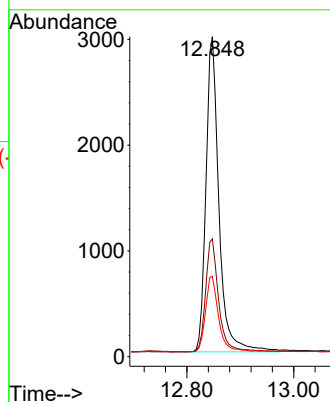
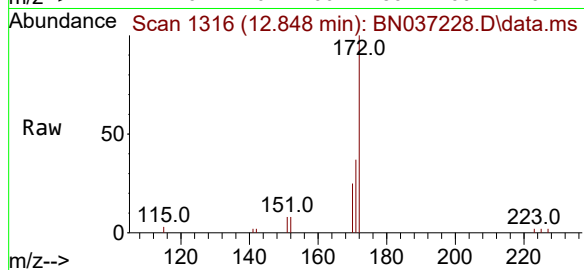
Tgt Ion:172 Resp: 5066

Ion Ratio Lower Upper

172 100

171 36.8 29.8 44.8

170 25.1 21.1 31.7



#16

Acenaphthylene

Concen: 0.781 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

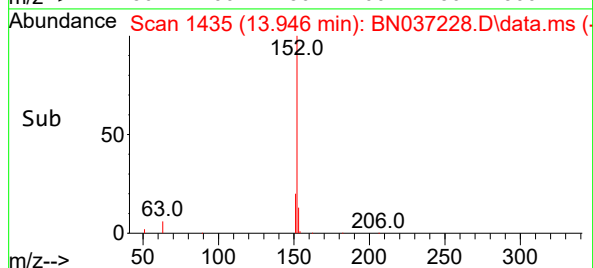
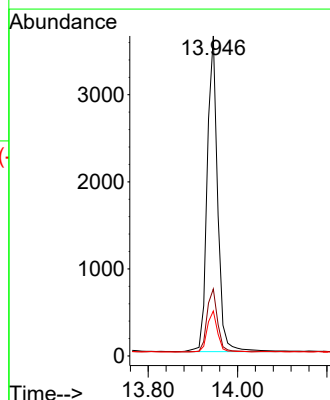
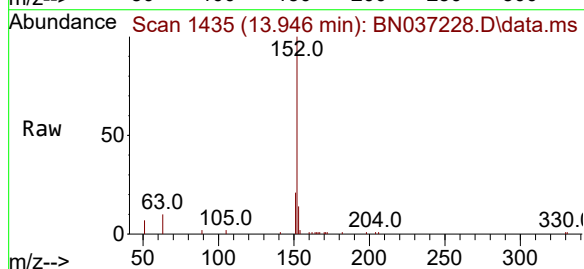
Tgt Ion:152 Resp: 5851

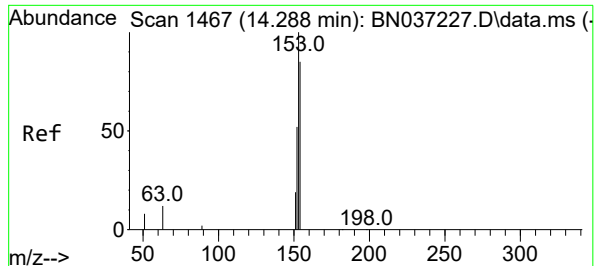
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 12.9 10.7 16.1

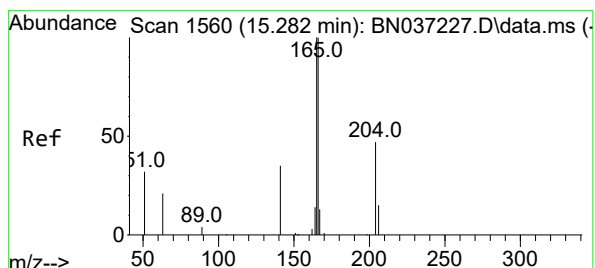
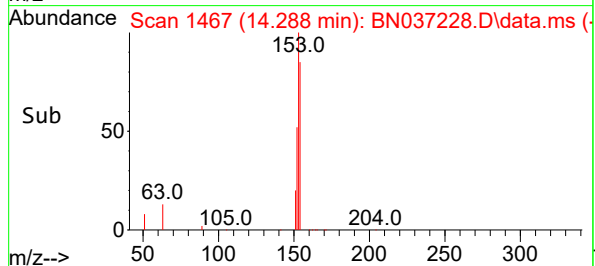
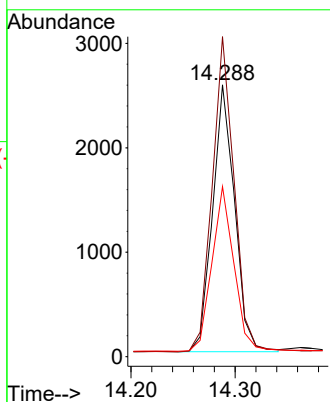
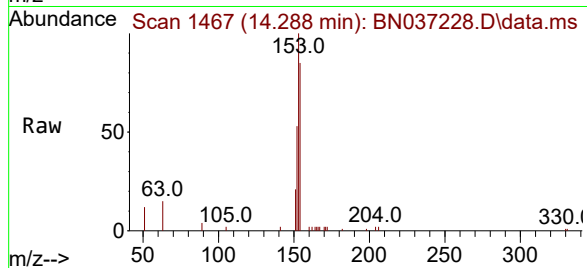




#17
Acenaphthene
Concen: 0.778 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

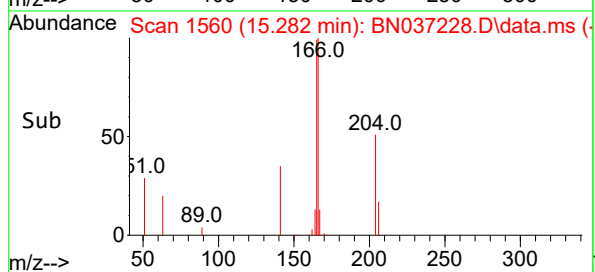
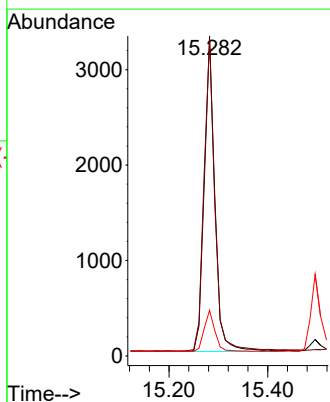
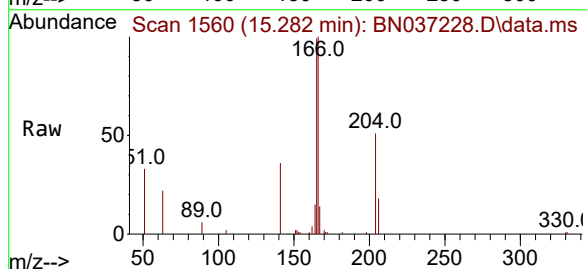
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

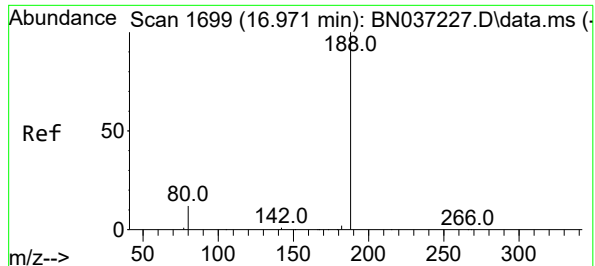
Tgt Ion:154 Resp: 3758
Ion Ratio Lower Upper
154 100
153 117.6 94.6 141.8
152 62.3 49.6 74.4



#18
Fluorene
Concen: 0.792 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:166 Resp: 4919
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

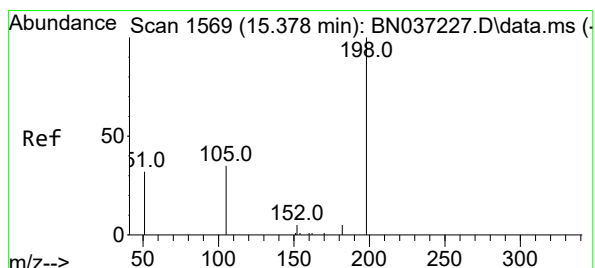
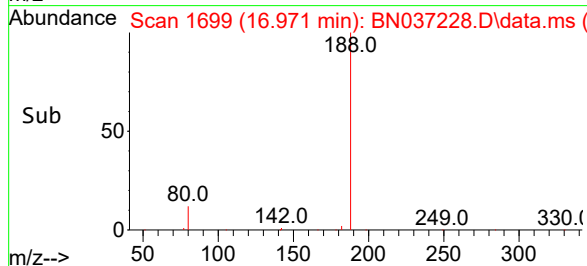
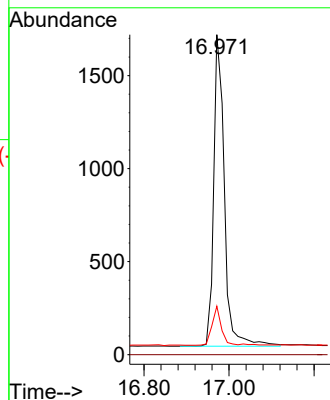
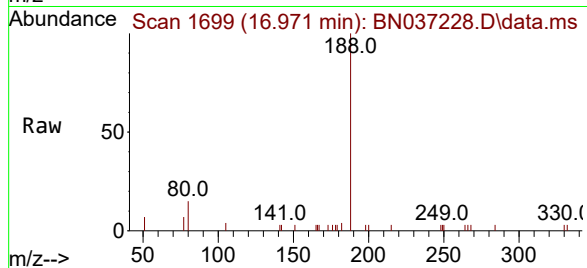
Tgt Ion:188 Resp: 2916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.762 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

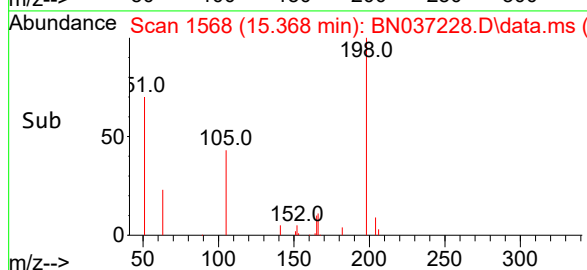
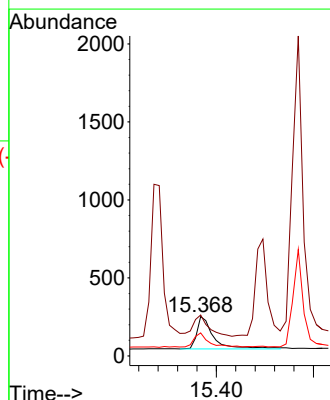
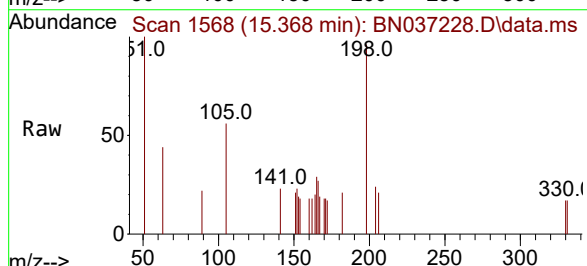
Tgt Ion:198 Resp: 499

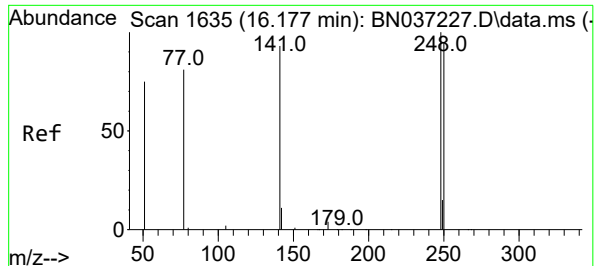
Ion Ratio Lower Upper

198 100

51 104.0 111.2 166.8#

105 58.3 54.0 81.0

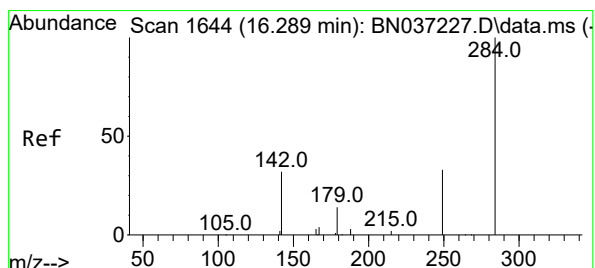
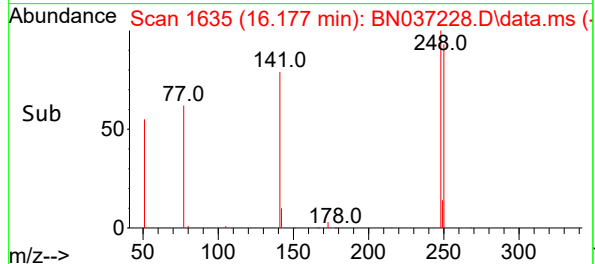
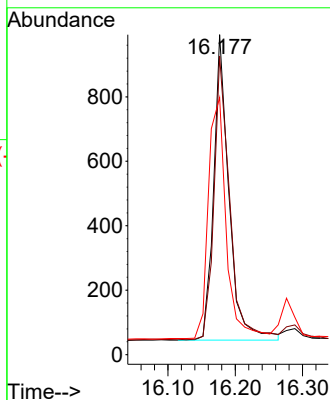
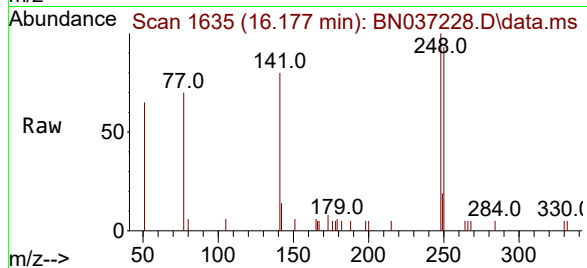




#21
4-Bromophenyl-phenylether
Concen: 0.786 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

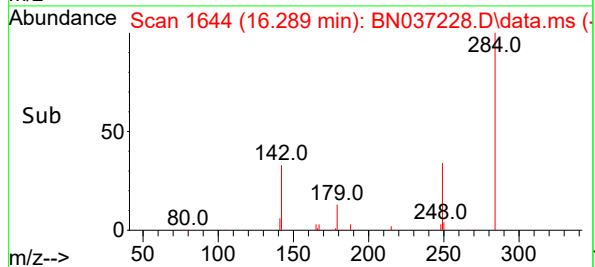
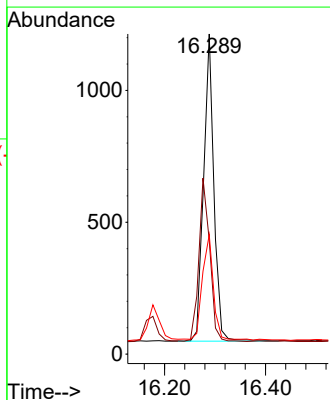
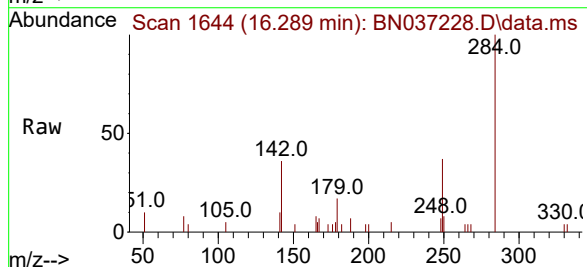
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

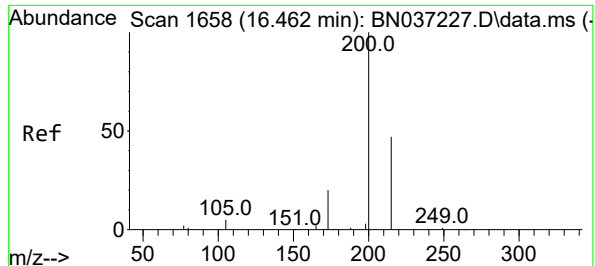
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	80.4	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.751 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.3	43.8	65.6
249	37.4	28.4	42.6

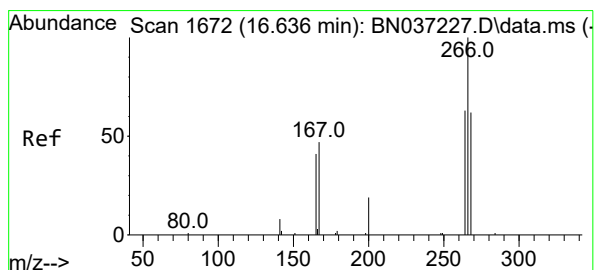
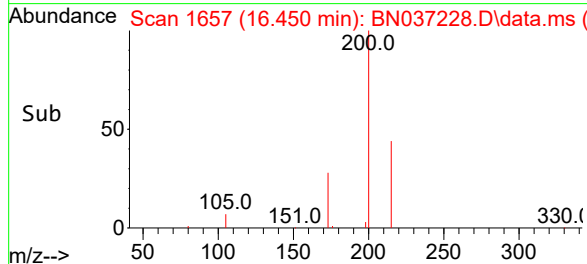
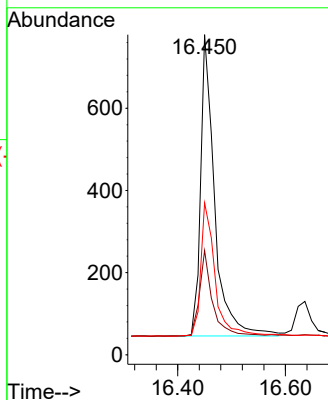
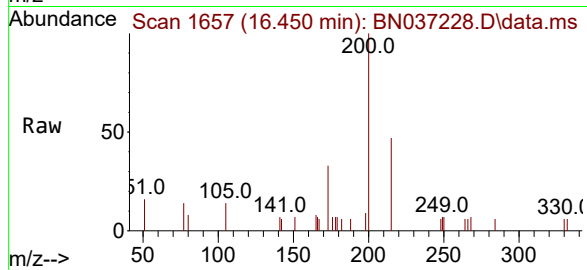




#23
Atrazine
Concen: 0.783 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

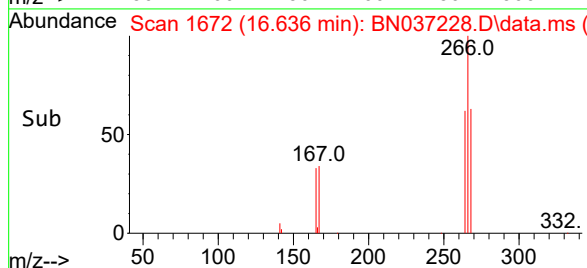
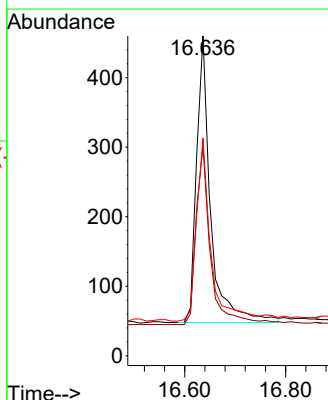
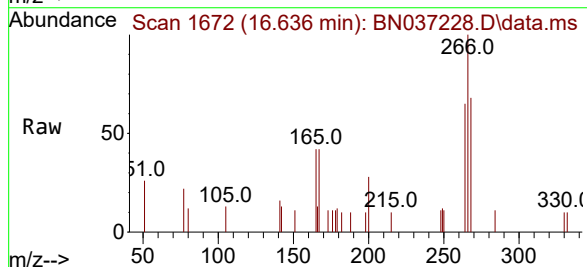
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

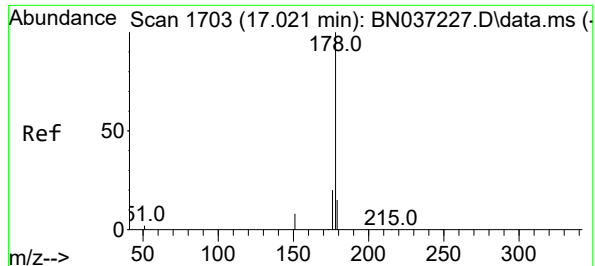
Tgt Ion:200 Resp: 1327
Ion Ratio Lower Upper
200 100
173 32.6 25.1 37.7
215 47.5 43.7 65.5



#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:266 Resp: 800
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 66.6 53.4 80.2

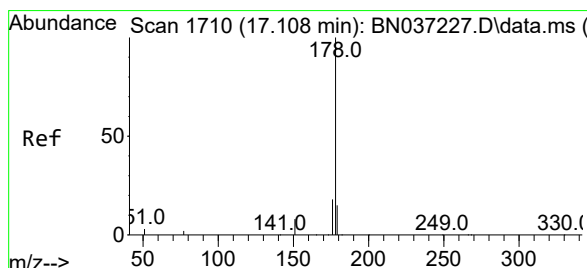
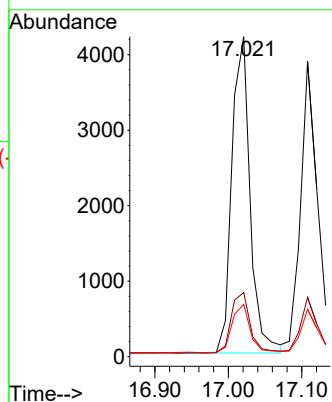
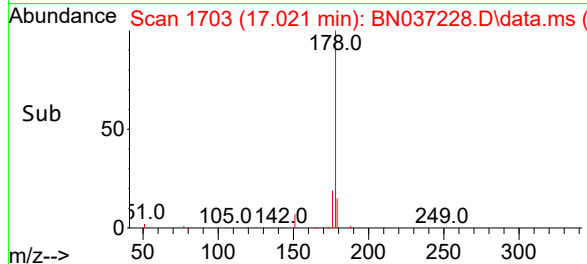
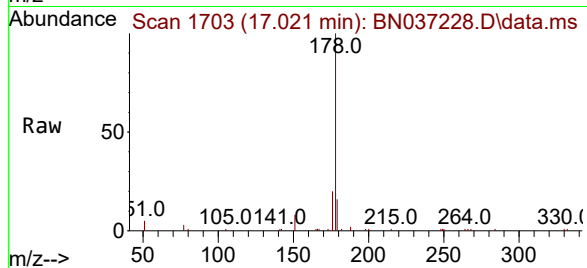




#25
Phenanthrene
Concen: 0.781 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

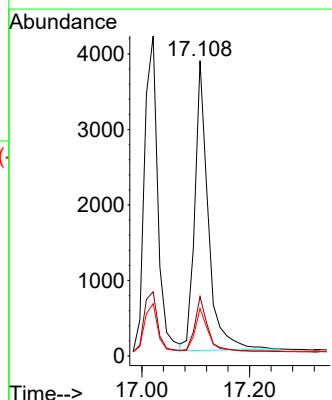
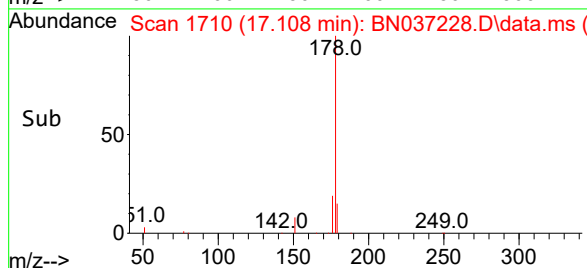
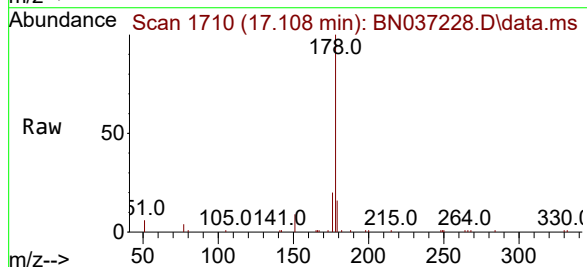
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

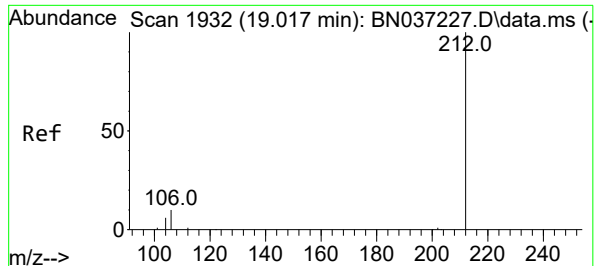
Tgt Ion:178 Resp: 7220
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.0 12.6 18.8



#26
Anthracene
Concen: 0.784 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:178 Resp: 6635
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 14.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.777 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

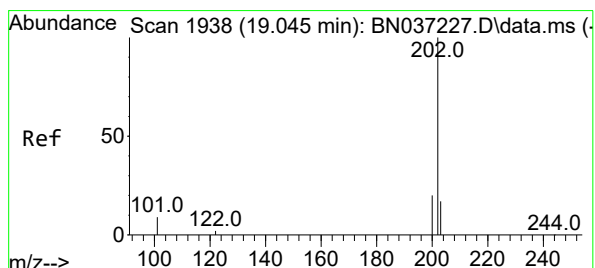
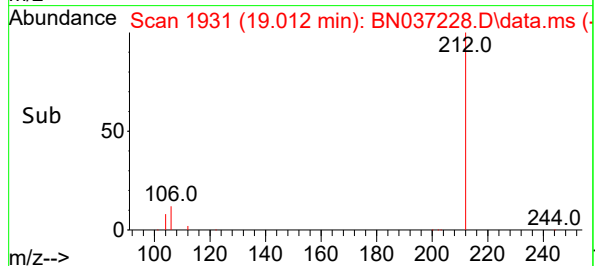
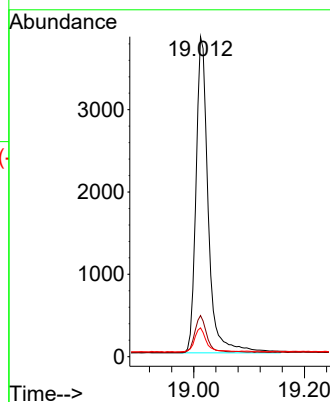
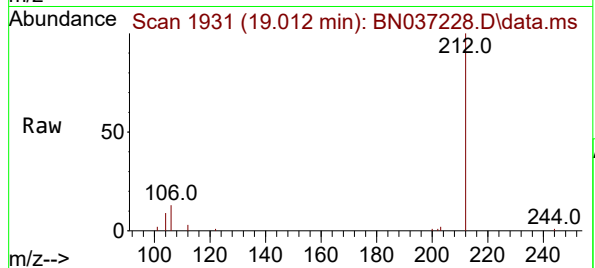
Tgt Ion:212 Resp: 5930

Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 7.3 5.7 8.5



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

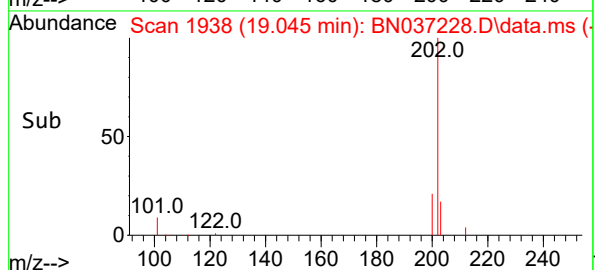
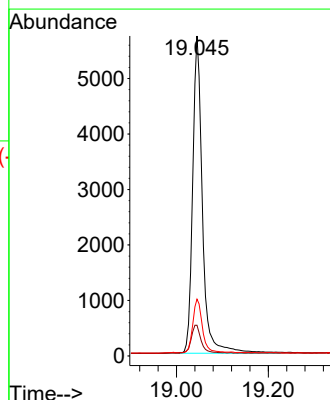
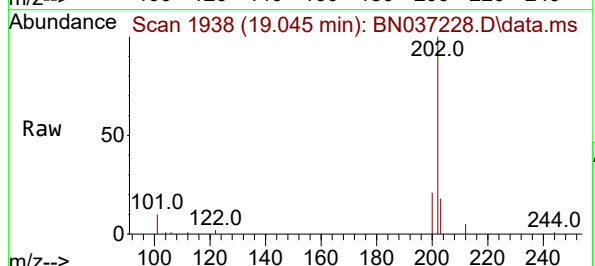
Tgt Ion:202 Resp: 8450

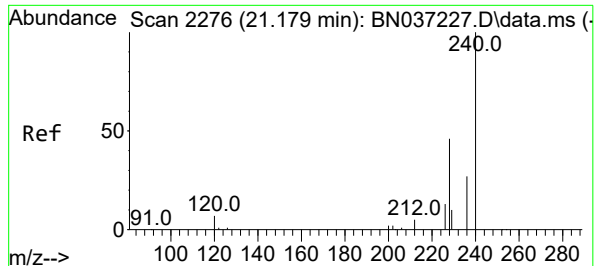
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 16.6 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

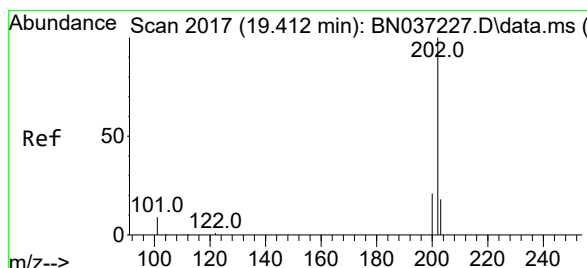
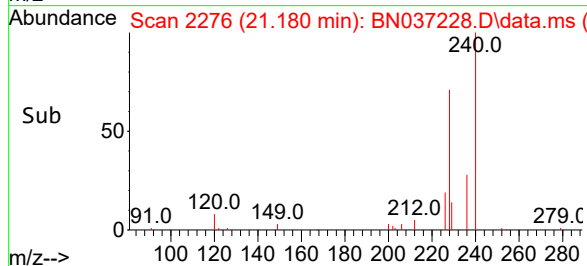
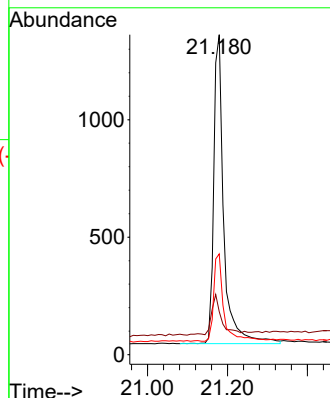
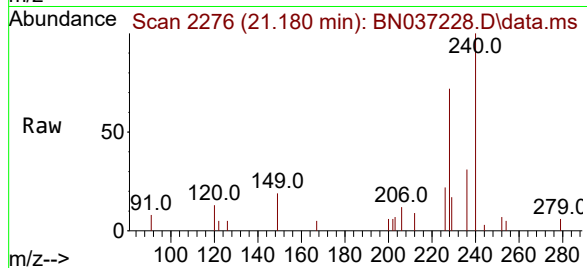
Tgt Ion:240 Resp: 2294

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.787 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

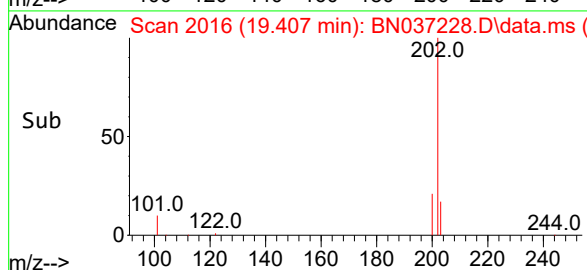
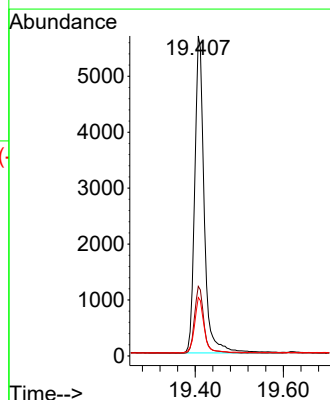
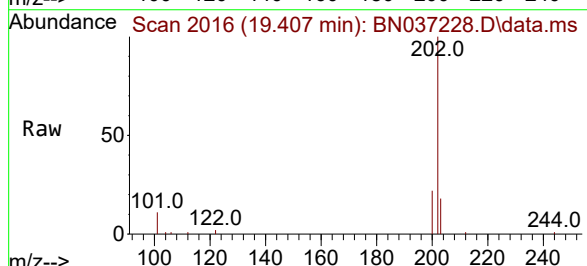
Tgt Ion:202 Resp: 8483

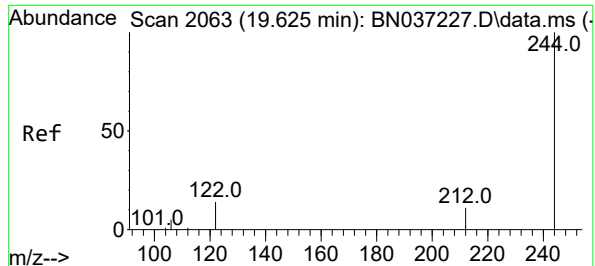
Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.4 14.3 21.5

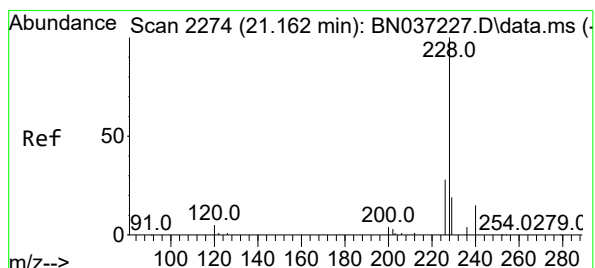
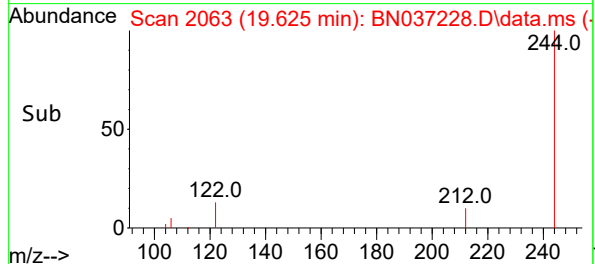
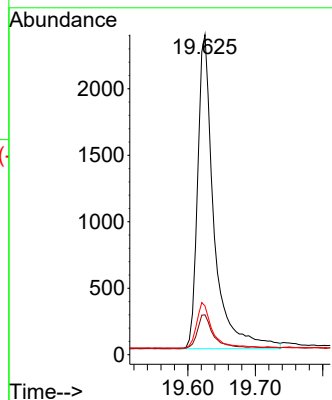
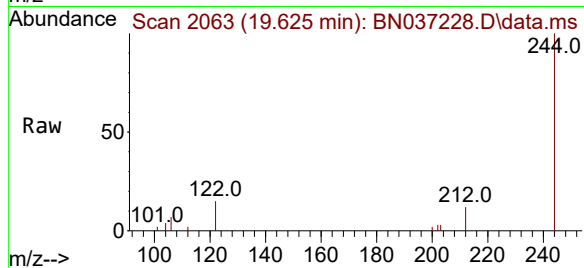




#31
Terphenyl-d14
Concen: 0.770 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

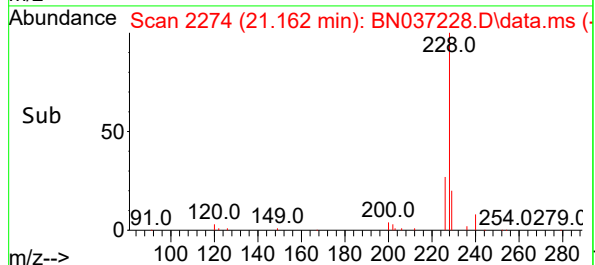
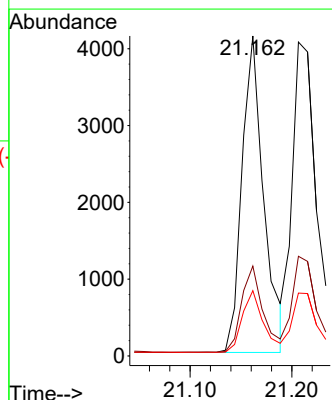
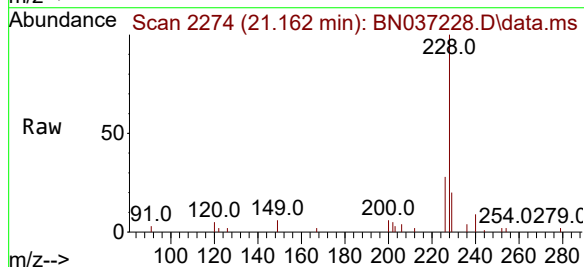
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

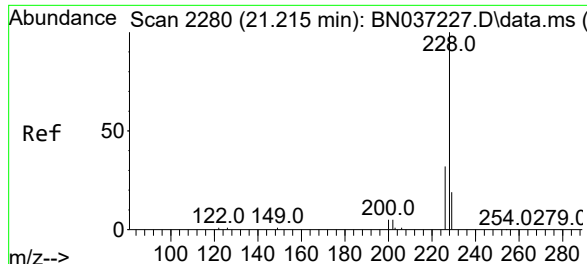
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.5	12.2	18.2
122	15.2	14.3	21.5



#32
Benzo(a)anthracene
Concen: 0.789 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.8	35.8
229	20.4	17.0	25.4





#33

Chrysene

Concen: 0.769 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

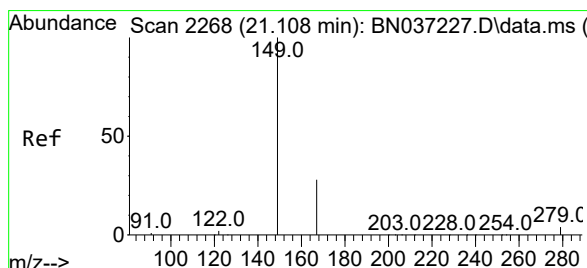
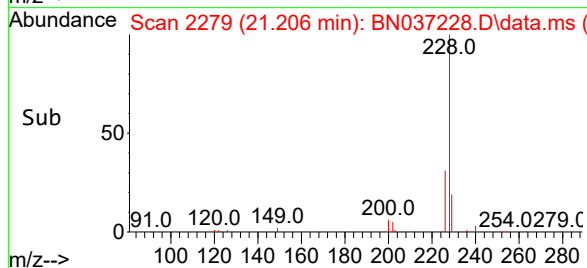
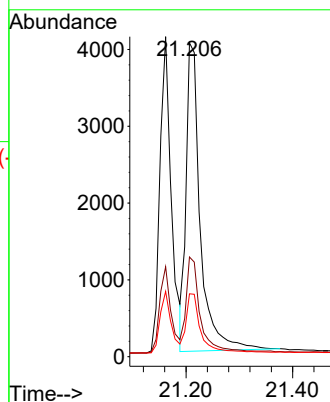
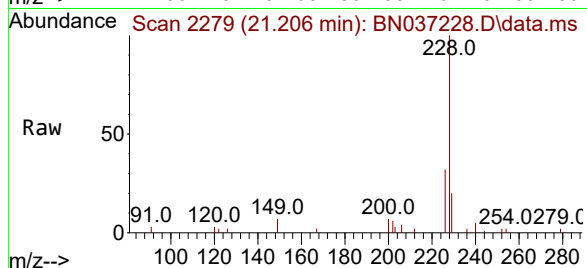
Tgt Ion:228 Resp: 7421

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 20.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.796 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

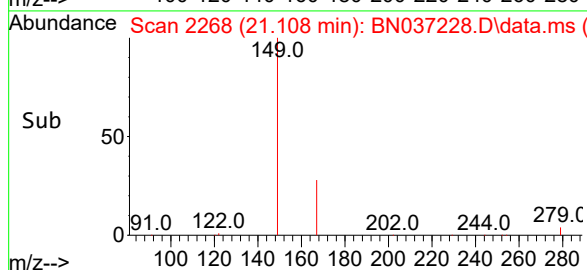
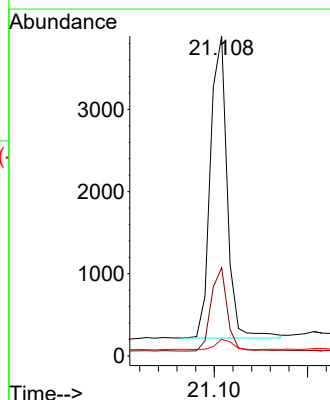
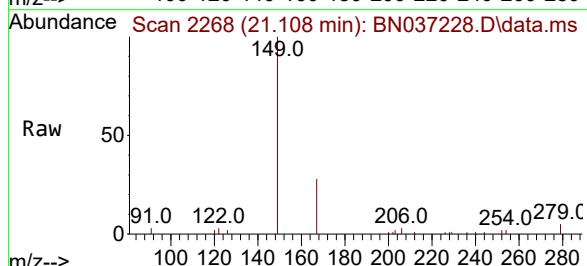
Tgt Ion:149 Resp: 4590

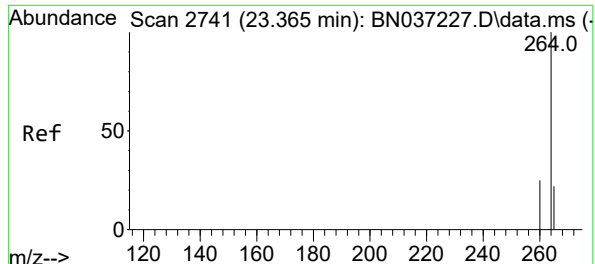
Ion Ratio Lower Upper

149 100

167 26.5 21.3 31.9

279 3.4 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

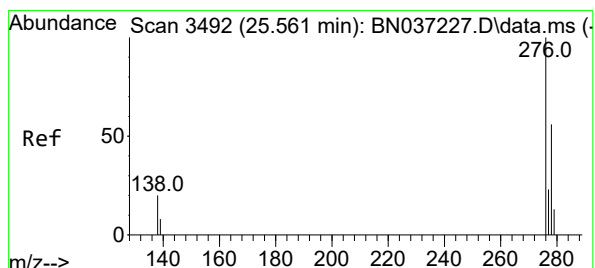
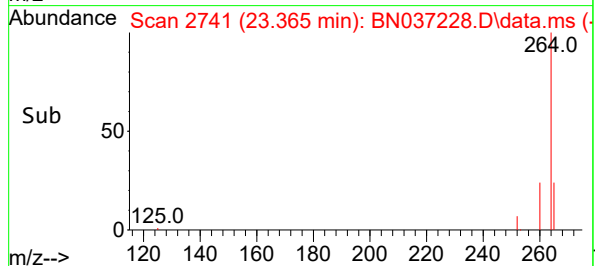
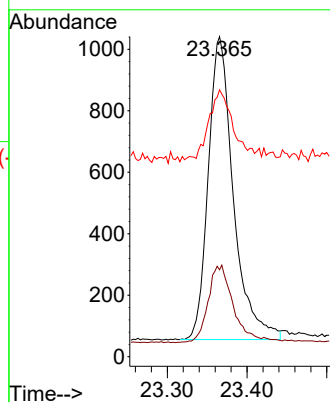
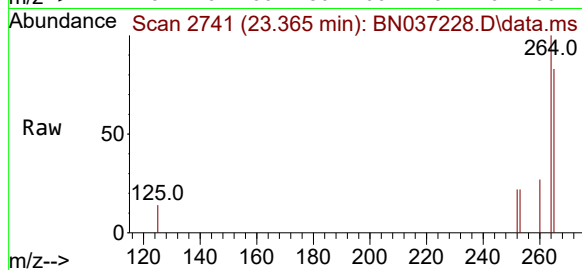
Tgt Ion:264 Resp: 2157

Ion Ratio Lower Upper

264 100

260 27.2 22.8 34.2

265 83.4 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.737 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

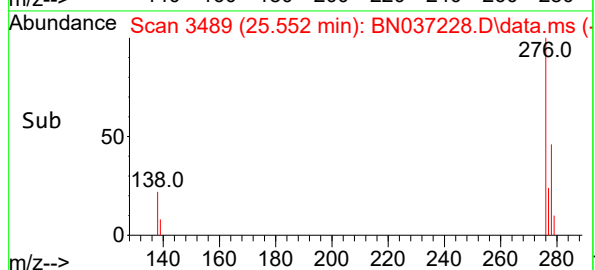
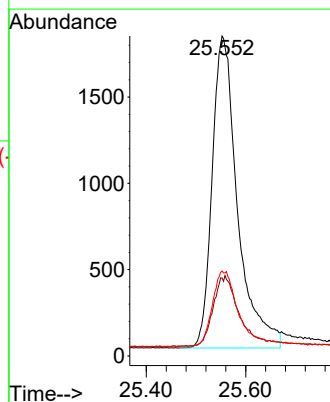
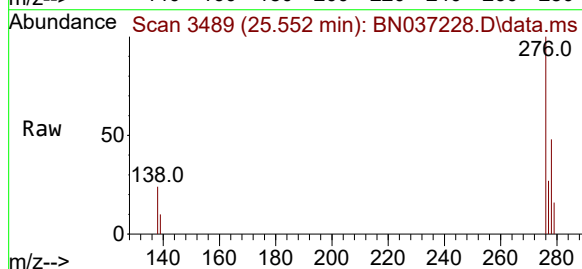
Tgt Ion:276 Resp: 6412

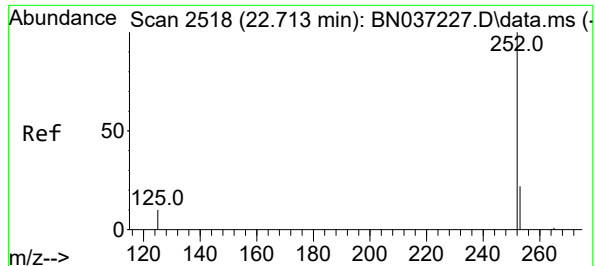
Ion Ratio Lower Upper

276 100

138 9.5 16.8 25.2#

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.796 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

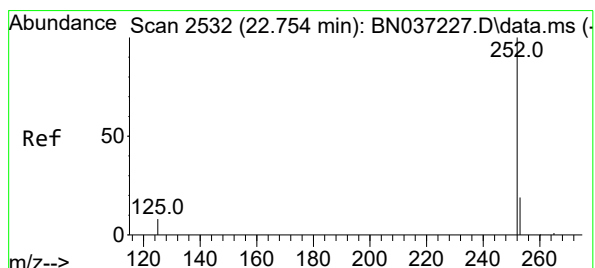
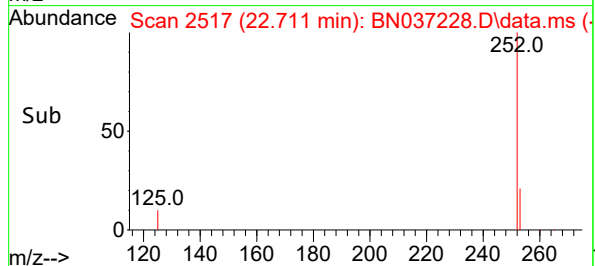
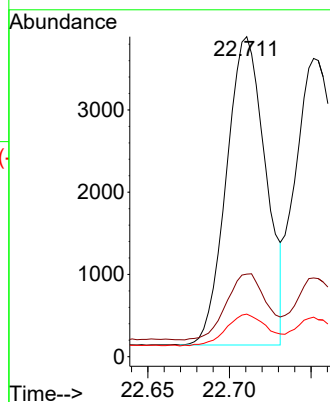
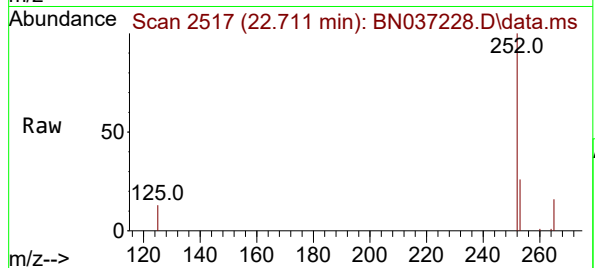
Tgt Ion:252 Resp: 6280

Ion Ratio Lower Upper

252 100

253 25.8 24.9 37.3

125 13.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.795 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

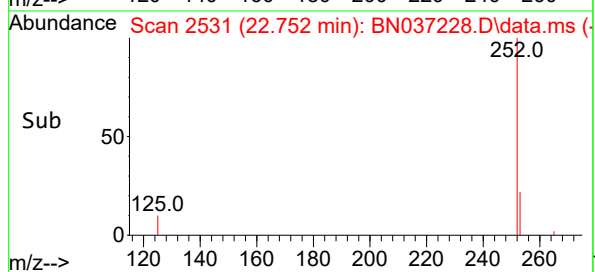
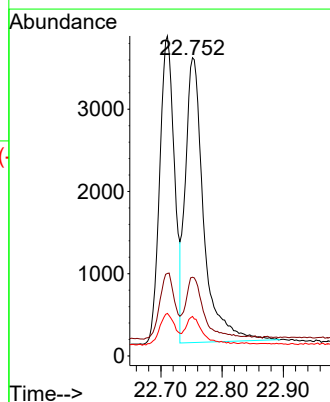
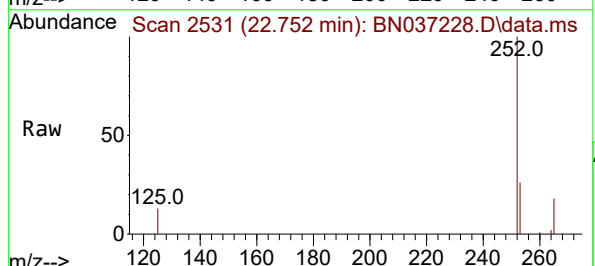
Tgt Ion:252 Resp: 7192

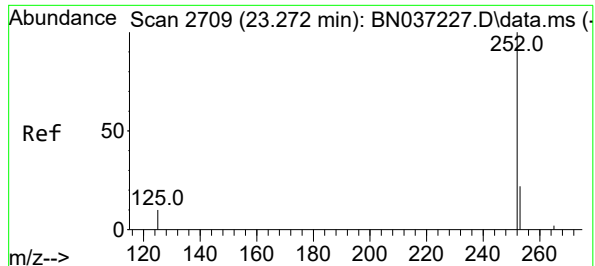
Ion Ratio Lower Upper

252 100

253 26.4 24.6 37.0

125 13.3 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.789 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

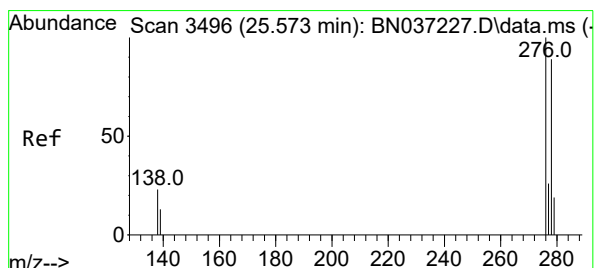
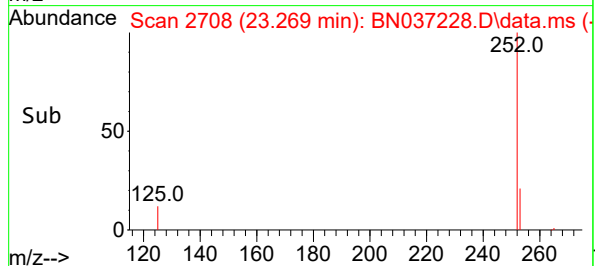
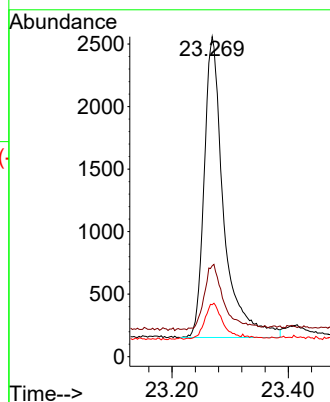
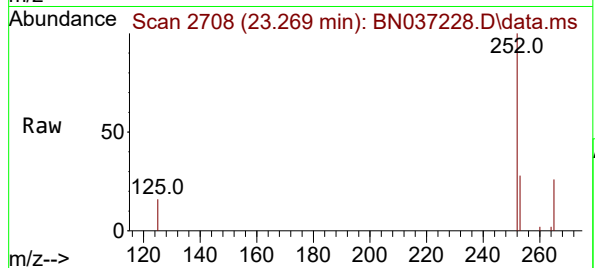
Tgt Ion:252 Resp: 5598

Ion Ratio Lower Upper

252 100

253 28.4 29.4 44.2#

125 16.3 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.736 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

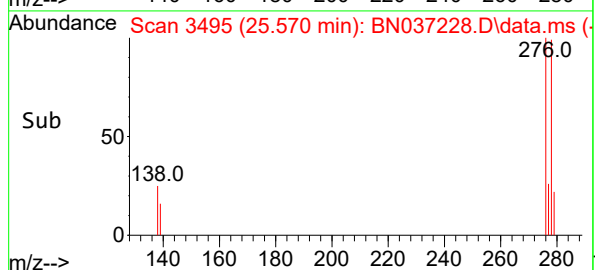
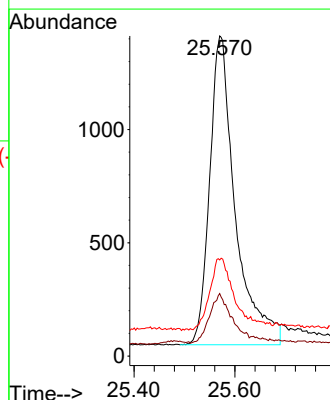
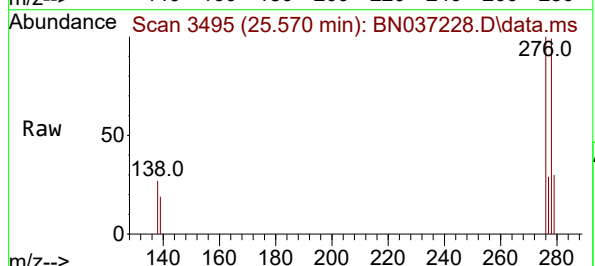
Tgt Ion:278 Resp: 4824

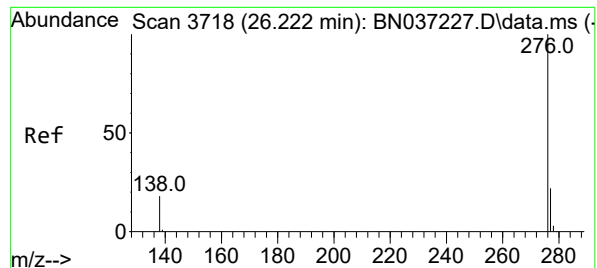
Ion Ratio Lower Upper

278 100

139 19.5 17.8 26.6

279 30.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.741 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037228.D

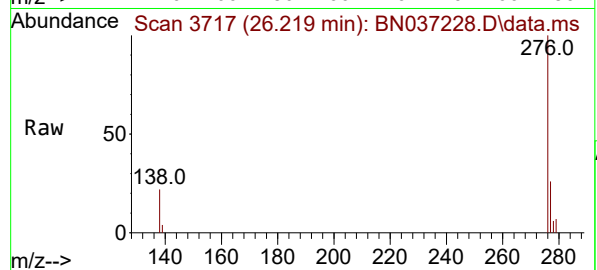
Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



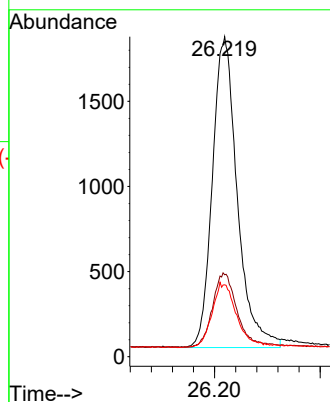
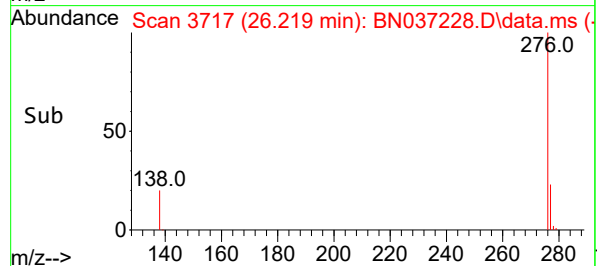
Tgt Ion:276 Resp: 5978

Ion Ratio Lower Upper

276 100

277 25.6 22.0 33.0

138 22.4 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037229.D
 Acq On : 13 Jun 2025 15:59
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

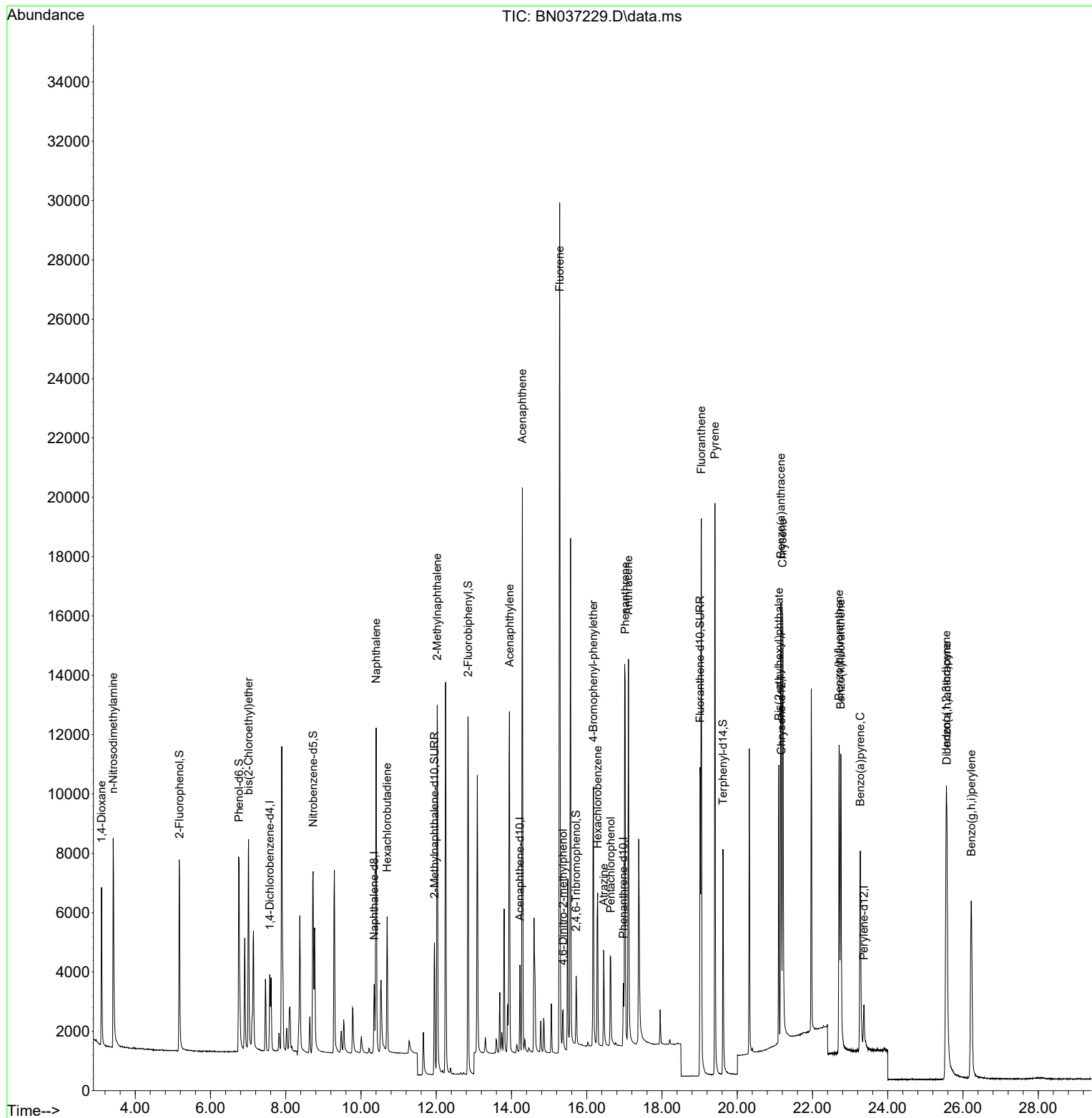
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1193	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2881	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1539	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2917	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2167	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2036	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	4755	1.623	ng	0.00
5) Phenol-d6	6.759	99	5480	1.774	ng	0.00
8) Nitrobenzene-d5	8.728	82	5073	1.782	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	6642	1.718	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1157	1.810	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	11216	1.734	ng	0.00
27) Fluoranthene-d10	19.012	212	12285	1.610	ng	0.00
31) Terphenyl-d14	19.621	244	8579	1.751	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2620	1.601	ng	93
3) n-Nitrosodimethylamine	3.415	42	6179	1.657	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	5181	1.873	ng	92
9) Naphthalene	10.404	128	13925	1.669	ng	96
10) Hexachlorobutadiene	10.693	225	3281	1.617	ng	# 96
12) 2-Methylnaphthalene	12.026	142	8865	1.748	ng	99
16) Acenaphthylene	13.946	152	12787	1.696	ng	99
17) Acenaphthene	14.288	154	8258	1.696	ng	99
18) Fluorene	15.282	166	10814	1.730	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	1171	1.596	ng	# 47
21) 4-Bromophenyl-phenylether	16.177	248	3248	1.709	ng	# 85
22) Hexachlorobenzene	16.289	284	3460	1.570	ng	98
23) Atrazine	16.450	200	2809	1.657	ng	90
24) Pentachlorophenol	16.636	266	1800	1.667	ng	97
25) Phenanthrene	17.021	178	15448	1.670	ng	99
26) Anthracene	17.108	178	14243	1.682	ng	100
28) Fluoranthene	19.045	202	17611	1.626	ng	99
30) Pyrene	19.407	202	17479	1.716	ng	100
32) Benzo(a)anthracene	21.162	228	13105	1.791	ng	97
33) Chrysene	21.207	228	14835	1.627	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	8716	1.599	ng	99
36) Indeno(1,2,3-cd)pyrene	25.555	276	13992	1.704	ng	97
37) Benzo(b)fluoranthene	22.708	252	13177	1.769	ng	# 87
38) Benzo(k)fluoranthene	22.752	252	14311	1.675	ng	# 88
39) Benzo(a)pyrene	23.269	252	11458	1.710	ng	# 81
40) Dibenzo(a,h)anthracene	25.570	278	11091	1.793	ng	# 83
41) Benzo(g,h,i)perylene	26.219	276	12677	1.665	ng	95

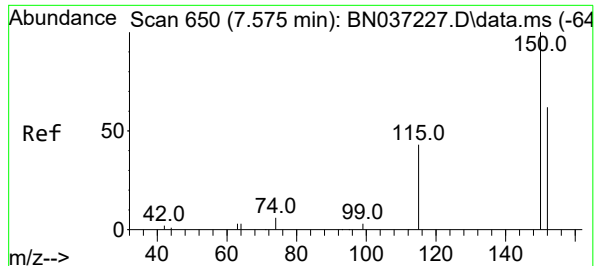
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037229.D
Acq On : 13 Jun 2025 15:59
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

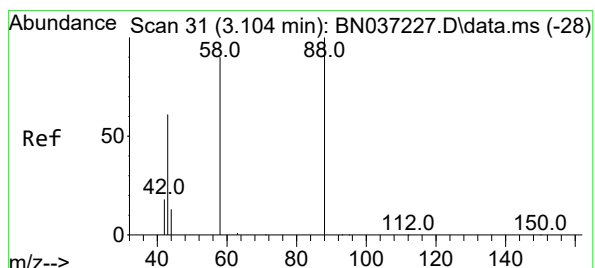
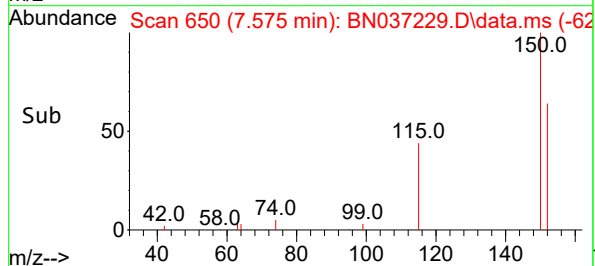
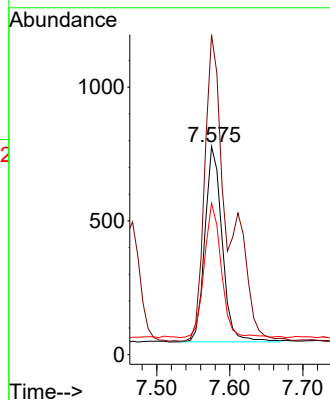
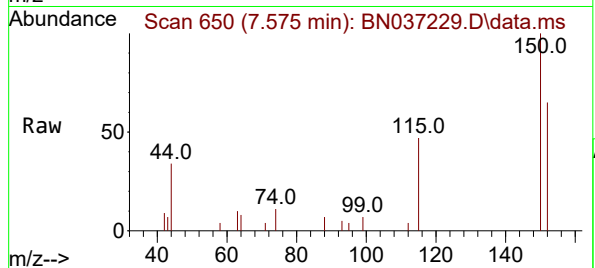




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

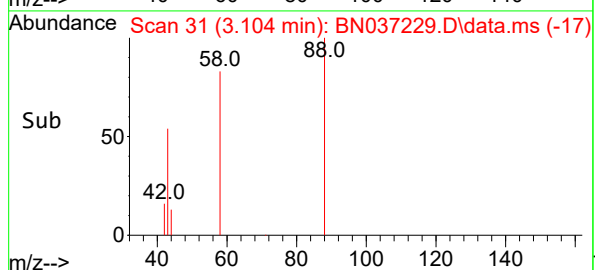
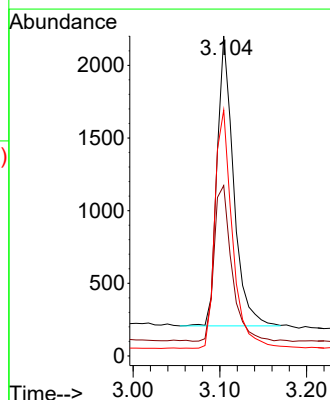
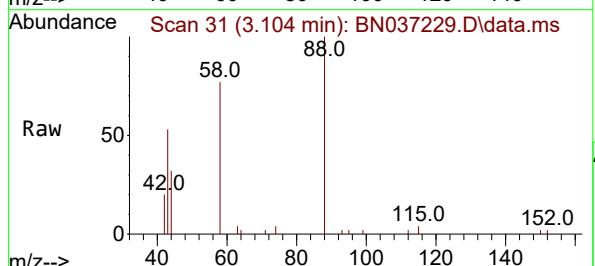
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

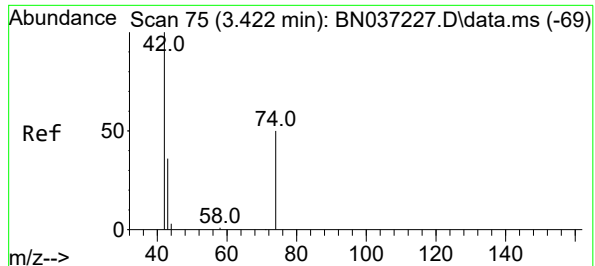
Tgt Ion:152 Resp: 1193
Ion Ratio Lower Upper
152 100
150 153.7 125.2 187.8
115 72.8 58.4 87.6



#2
1,4-Dioxane
Concen: 1.601 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 88 Resp: 2620
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 87.4 73.5 110.3

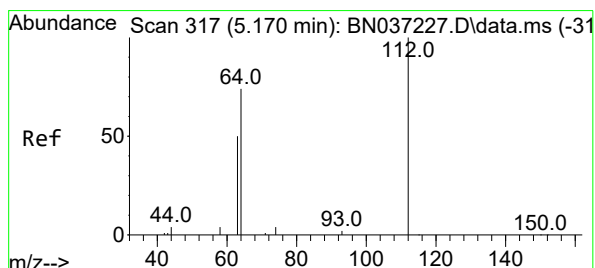
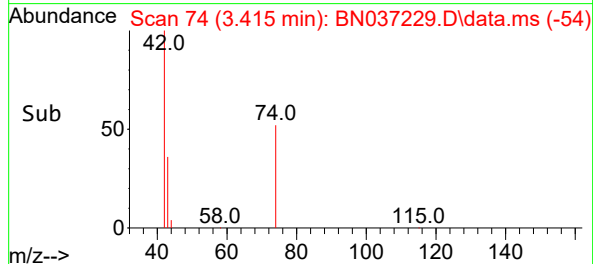
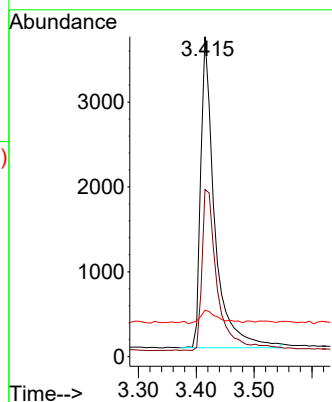
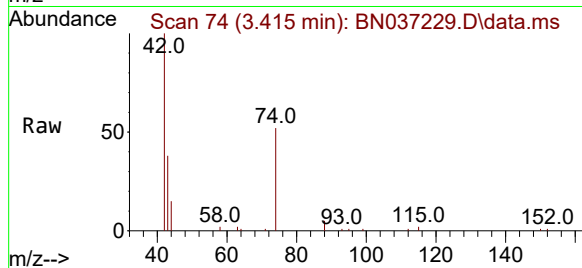




#3
n-Nitrosodimethylamine
Concen: 1.657 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

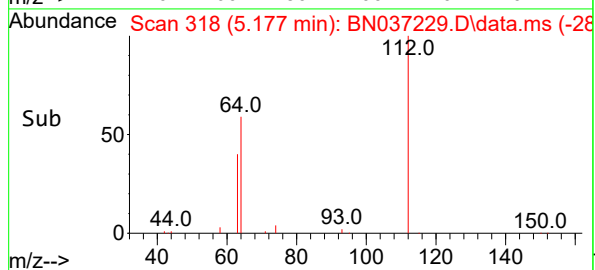
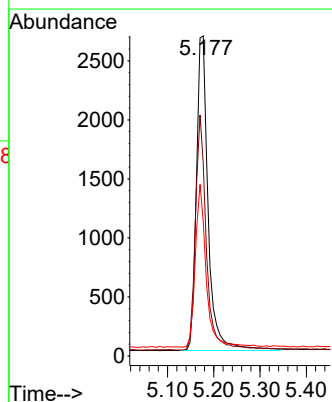
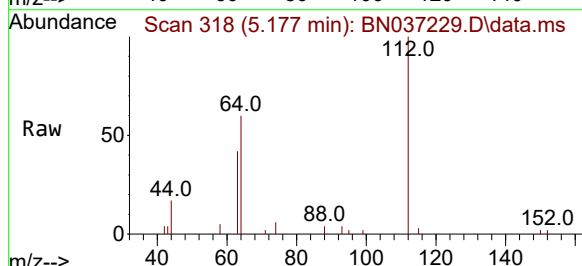
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

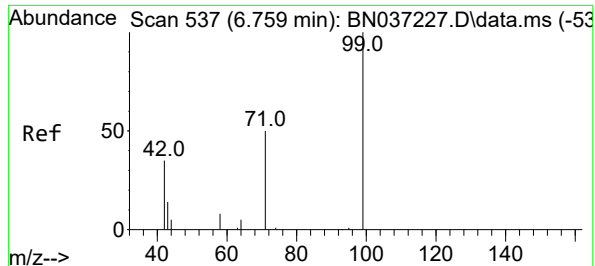
Tgt Ion: 42 Resp: 6179
Ion Ratio Lower Upper
42 100
74 57.5 44.6 66.8
44 5.7 3.5 5.3#



#4
2-Fluorophenol
Concen: 1.623 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 112 Resp: 4755
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.7 39.8 59.6





#5

Phenol-d6

Concen: 1.774 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

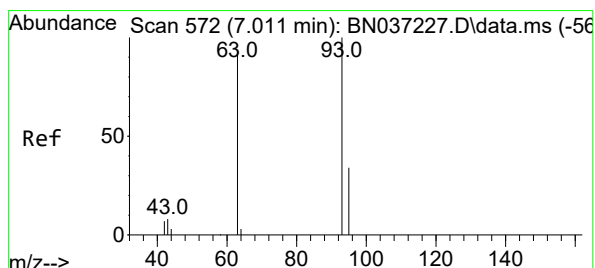
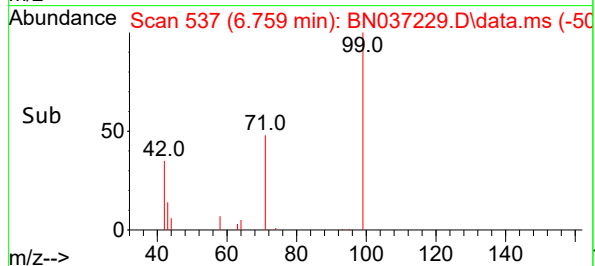
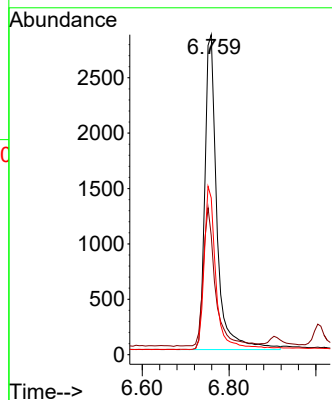
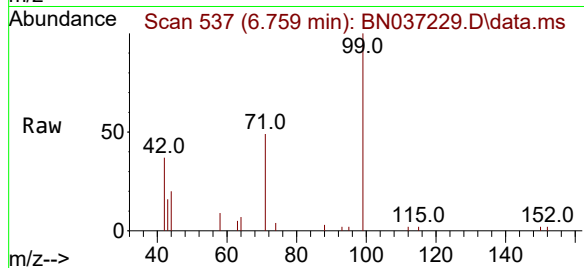
BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion: 99 Resp: 5480

Ion	Ratio	Lower	Upper
99	100		
42	44.0	36.2	54.4
71	50.7	42.4	63.6



#6

bis(2-Chloroethyl)ether

Concen: 1.873 ng

RT: 7.012 min Scan# 572

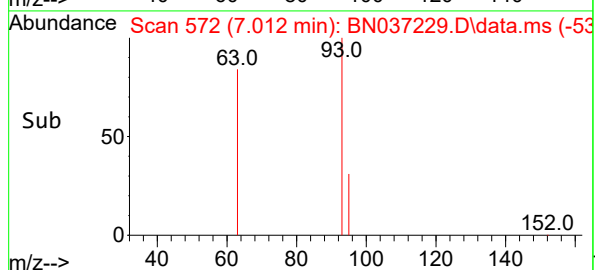
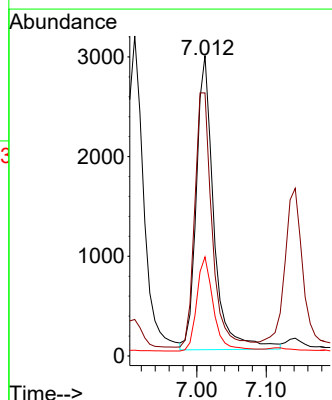
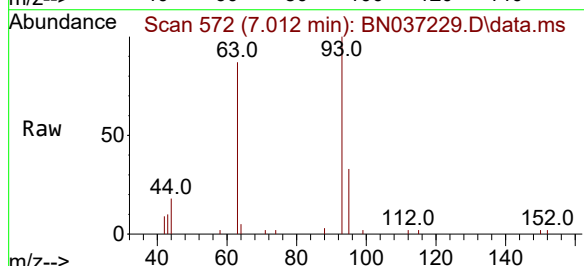
Delta R.T. 0.000 min

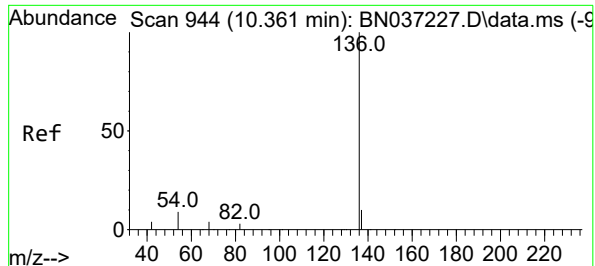
Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Tgt Ion: 93 Resp: 5181

Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5

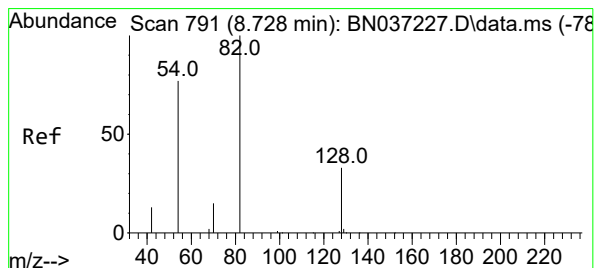
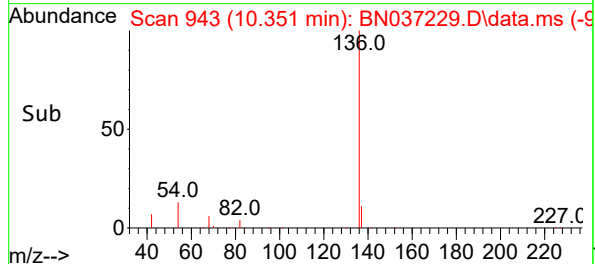
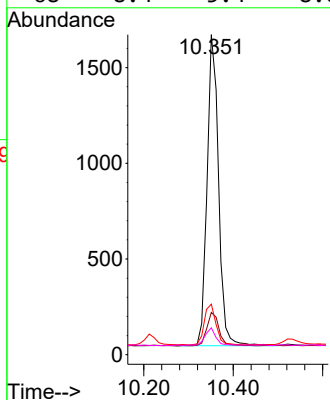
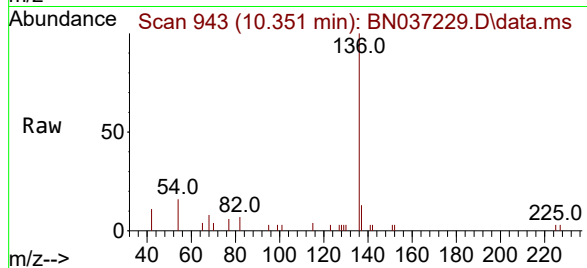




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

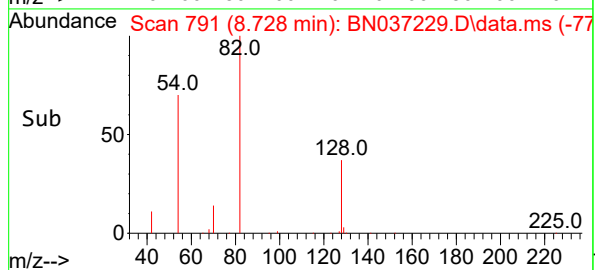
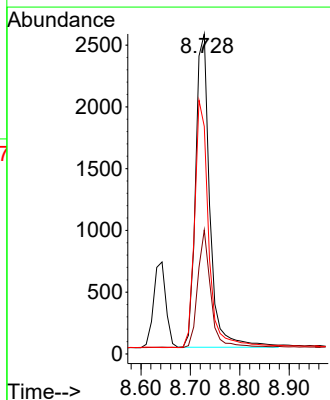
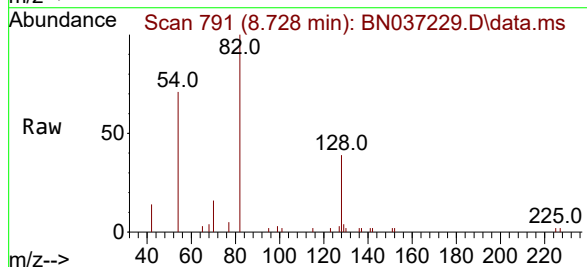
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

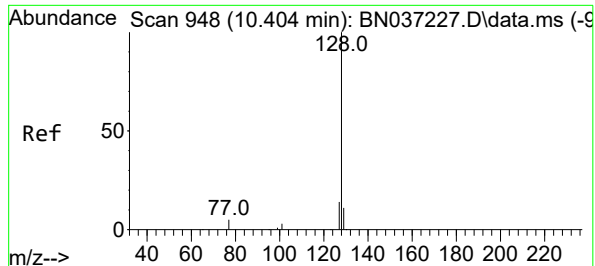
Tgt Ion:	136	Resp:	2881
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	15.8	9.2	13.8#
68	8.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 1.782 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:	82	Resp:	5073
Ion	Ratio	Lower	Upper
82	100		
128	38.7	31.2	46.8
54	71.1	63.3	94.9

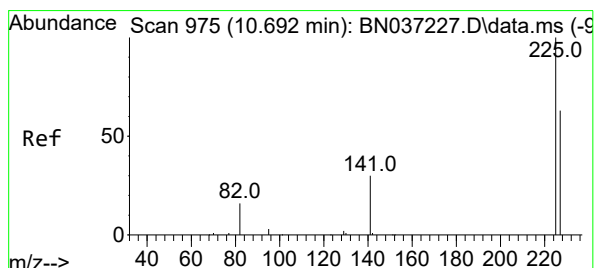
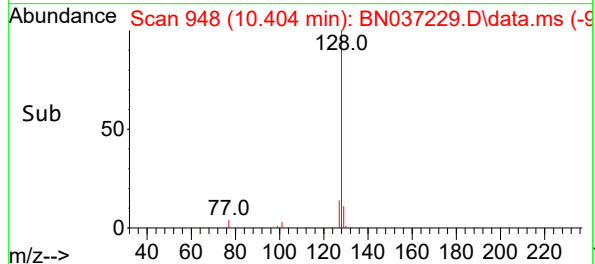
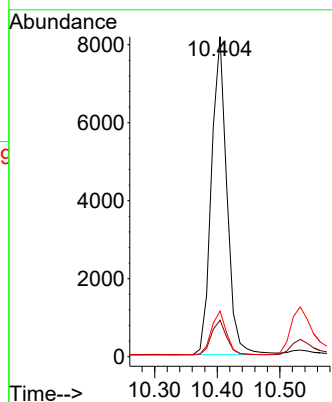
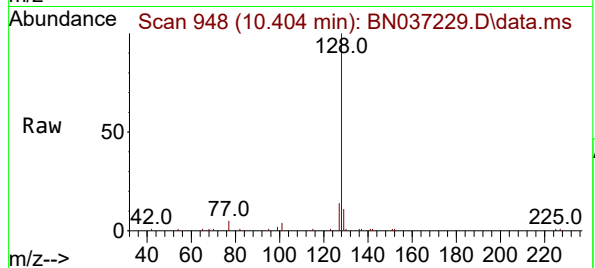




#9
Naphthalene
Concen: 1.669 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

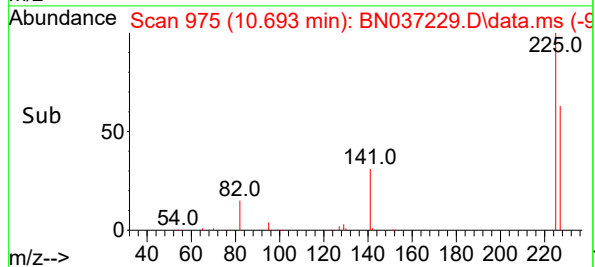
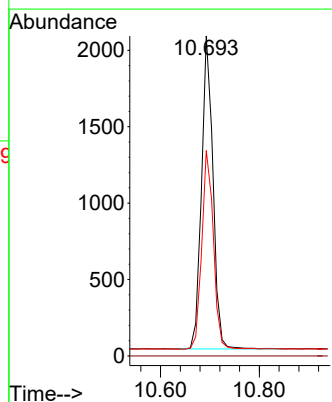
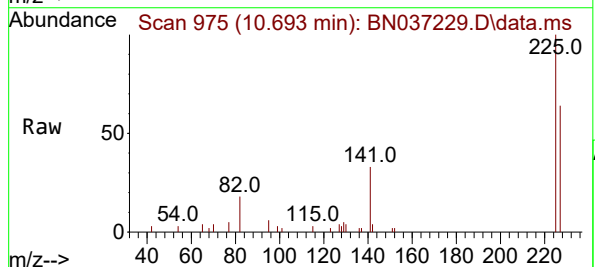
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

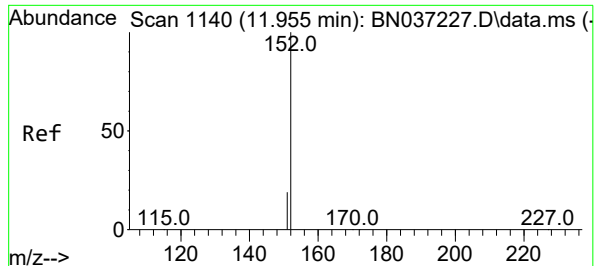
Tgt Ion:128 Resp: 13925
Ion Ratio Lower Upper
128 100
129 11.4 10.7 16.1
127 14.2 12.6 19.0



#10
Hexachlorobutadiene
Concen: 1.617 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:225 Resp: 3281
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 49.2 73.8

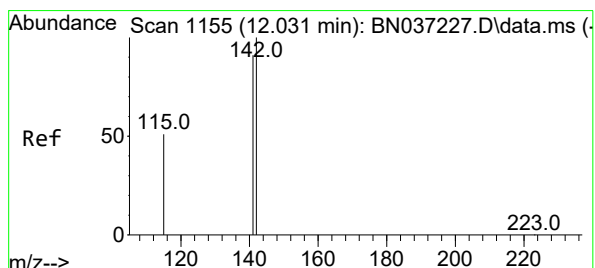
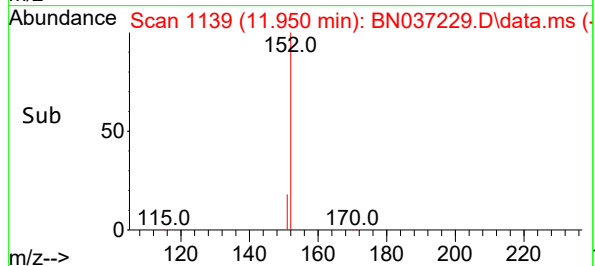
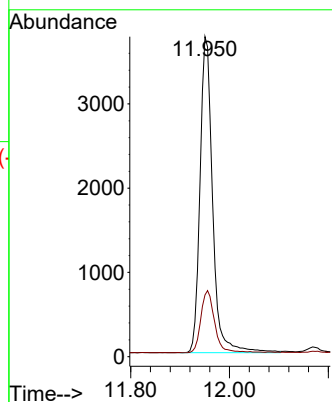
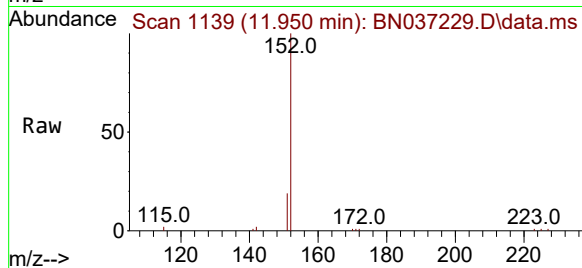




#11
2-Methylnaphthalene-d10
Concen: 1.718 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

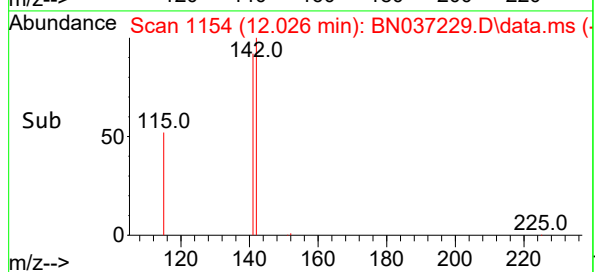
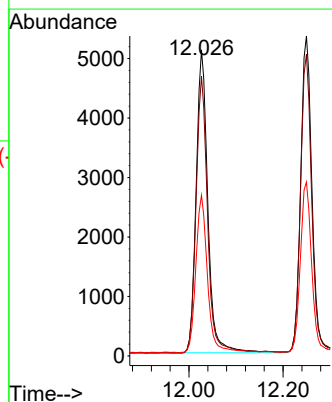
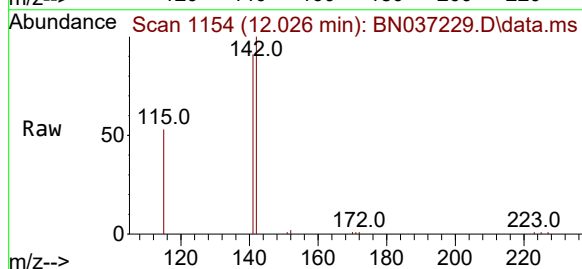
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

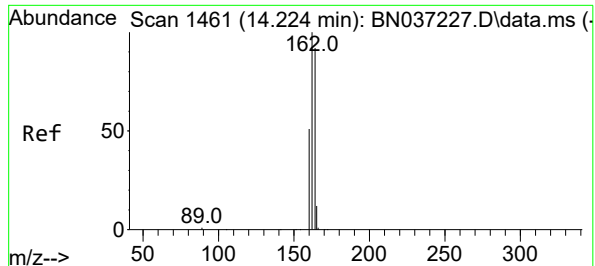
Tgt Ion:152 Resp: 6642
Ion Ratio Lower Upper
152 100
151 21.6 17.9 26.9



#12
2-Methylnaphthalene
Concen: 1.748 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:142 Resp: 8865
Ion Ratio Lower Upper
142 100
141 91.4 73.0 109.6
115 52.5 43.3 64.9

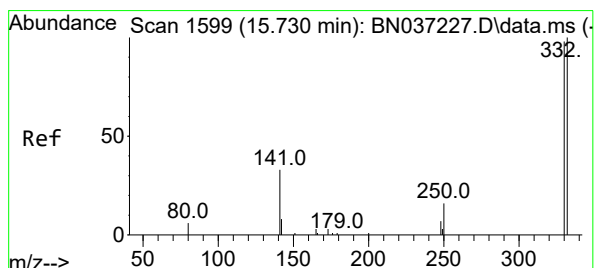
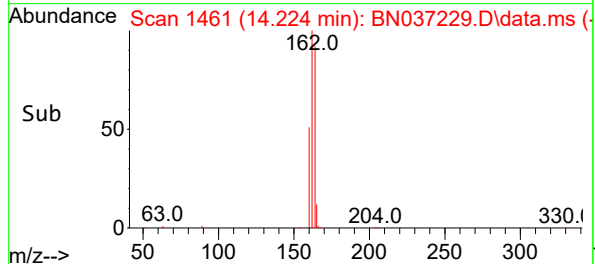
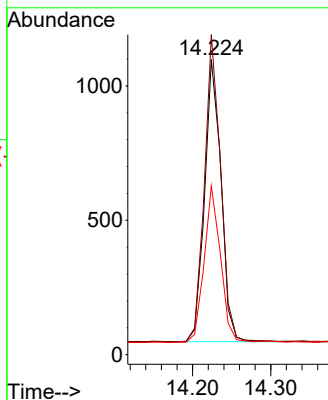
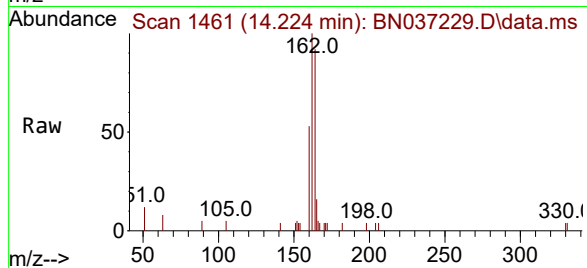




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

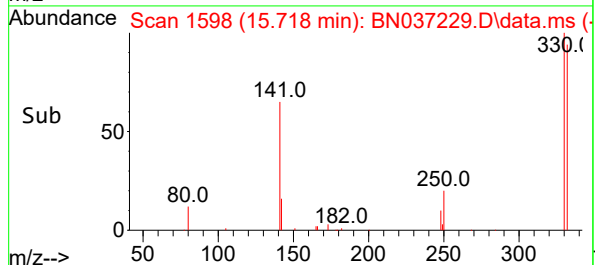
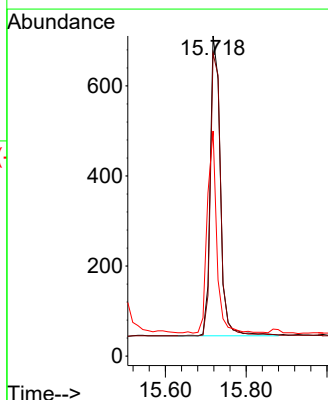
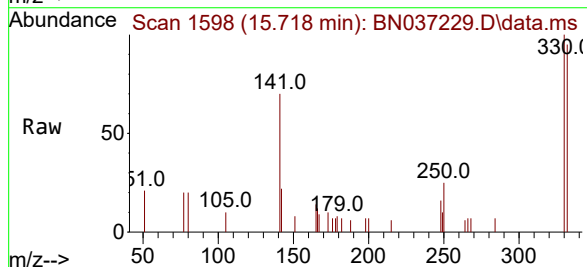
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

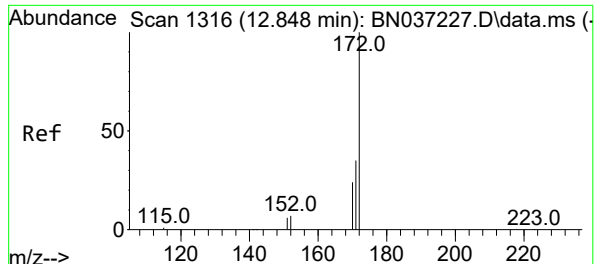
Tgt Ion:164 Resp: 1539
Ion Ratio Lower Upper
164 100
162 108.5 86.7 130.1
160 57.2 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 1.810 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:330 Resp: 1157
Ion Ratio Lower Upper
330 100
332 95.2 74.9 112.3
141 63.4 45.1 67.7

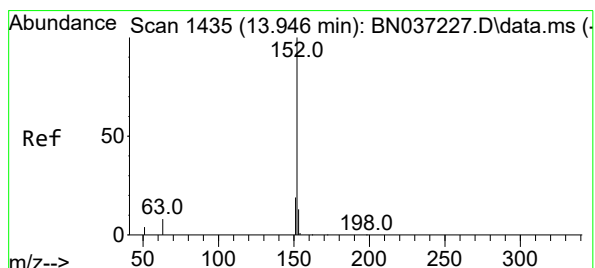
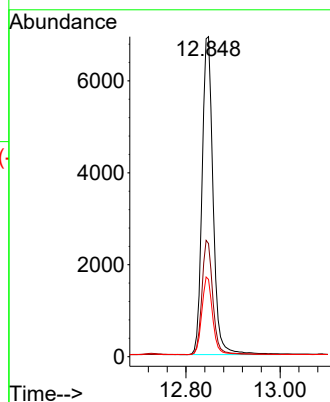
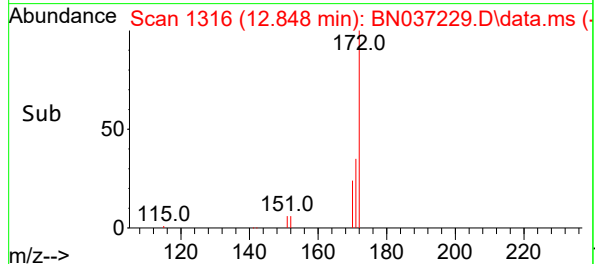
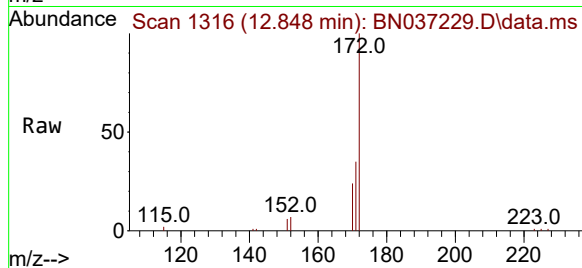




#15
2-Fluorobiphenyl
Concen: 1.734 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

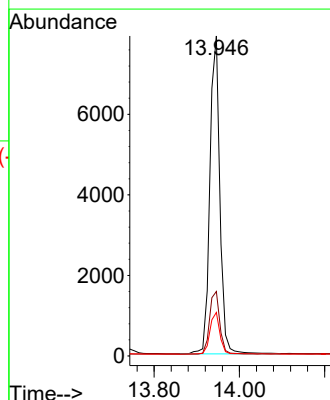
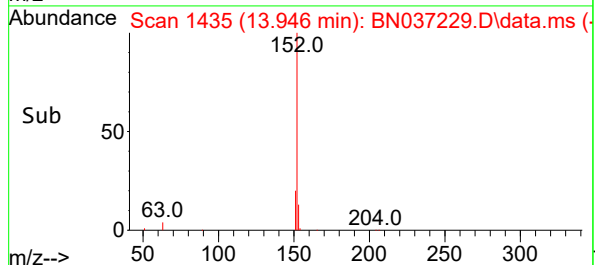
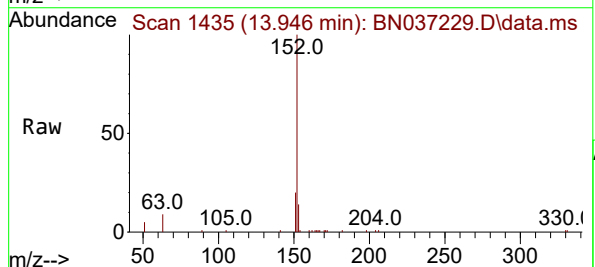
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

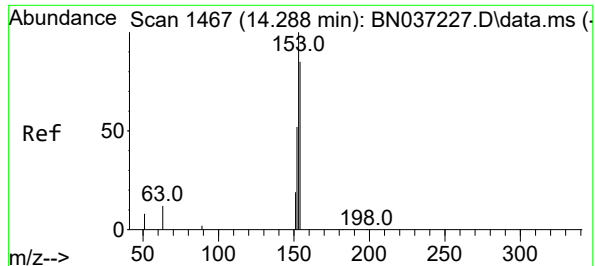
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.8	44.8
170	24.2	21.1	31.7



#16
Acenaphthylene
Concen: 1.696 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	13.1	10.7	16.1

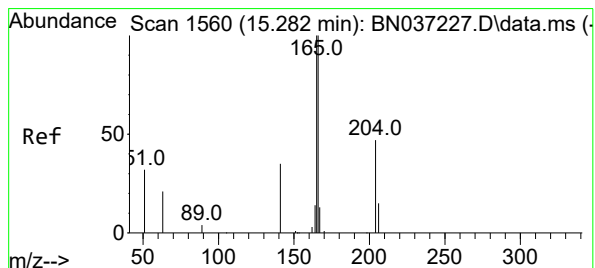
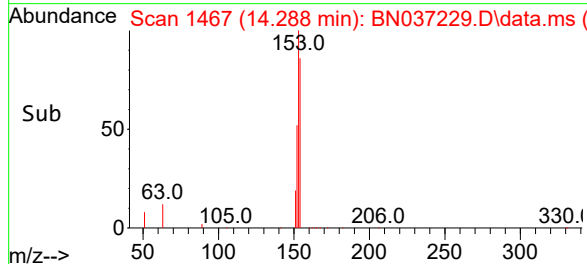
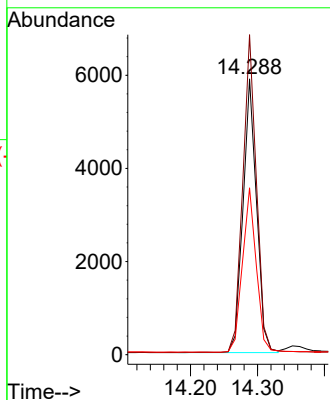
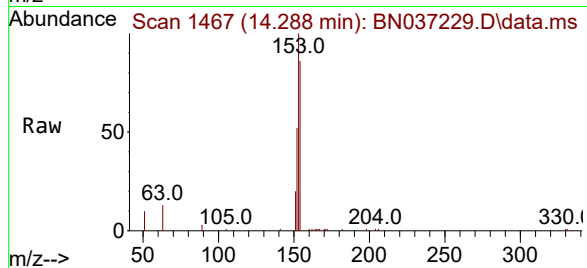




#17
Acenaphthene
Concen: 1.696 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

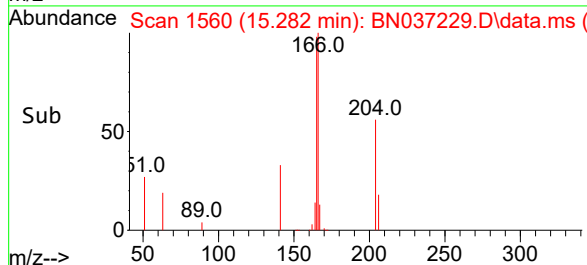
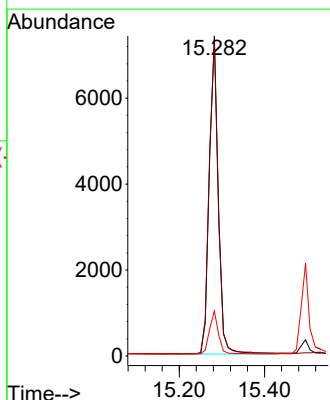
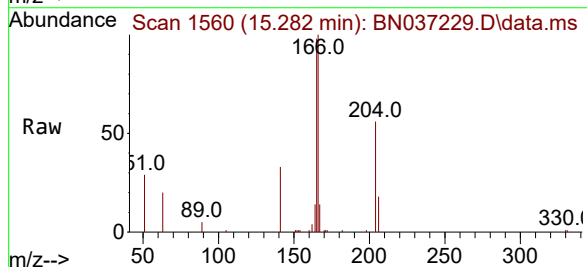
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

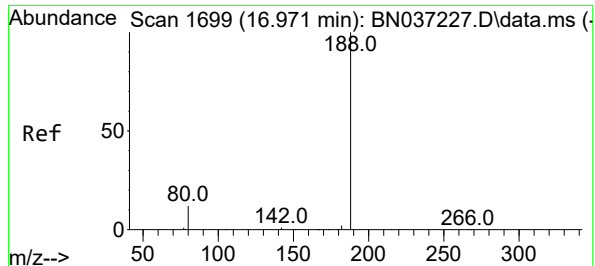
Tgt Ion:154 Resp: 8258
Ion Ratio Lower Upper
154 100
153 117.2 94.6 141.8
152 61.4 49.6 74.4



#18
Fluorene
Concen: 1.730 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:166 Resp: 10814
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

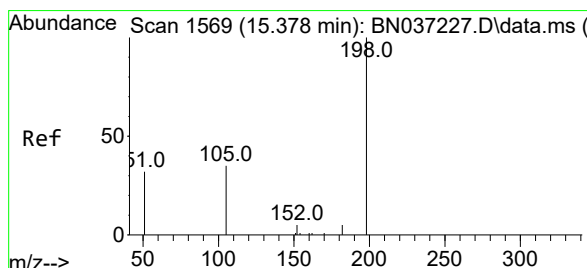
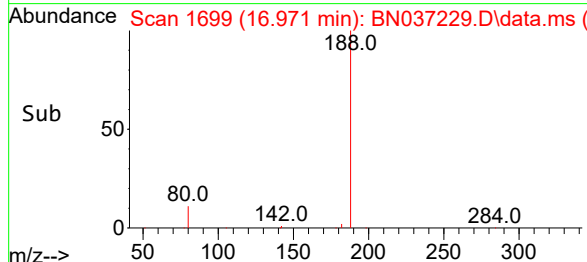
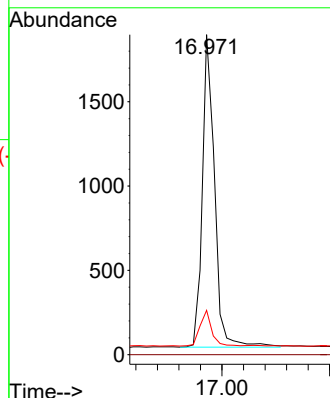
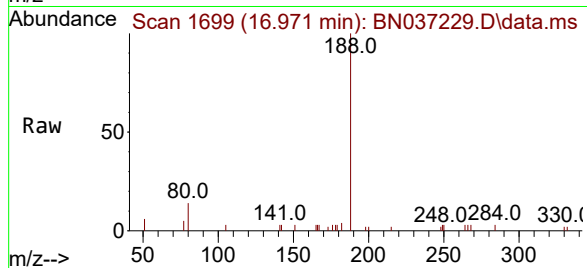
Tgt Ion:188 Resp: 2917

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.596 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

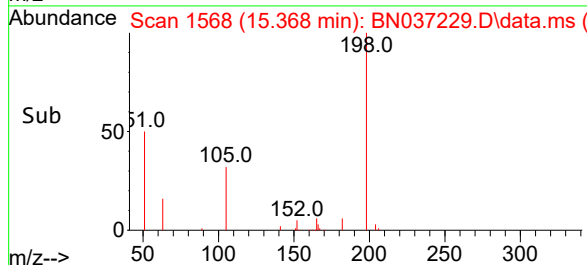
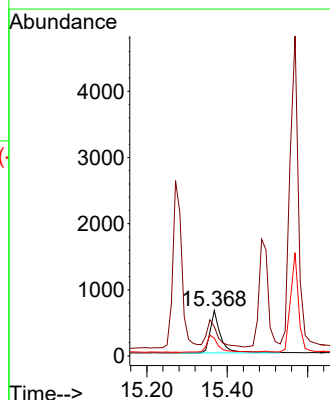
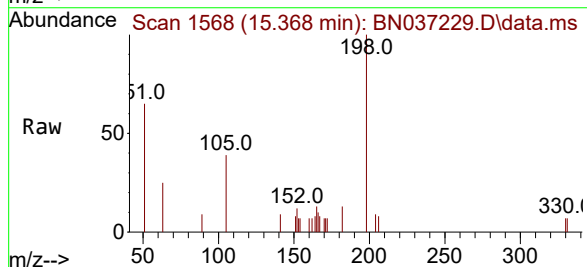
Tgt Ion:198 Resp: 1171

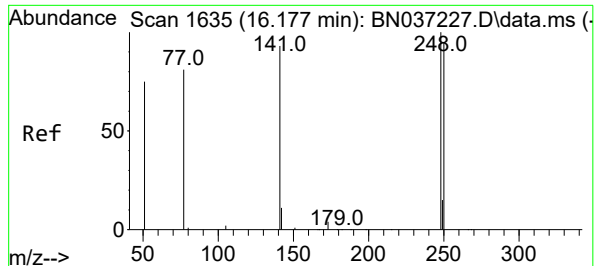
Ion Ratio Lower Upper

198 100

51 64.8 111.2 166.8#

105 39.0 54.0 81.0#

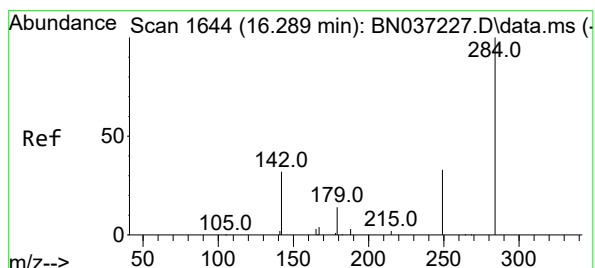
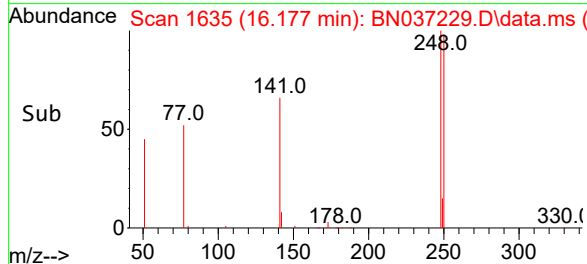
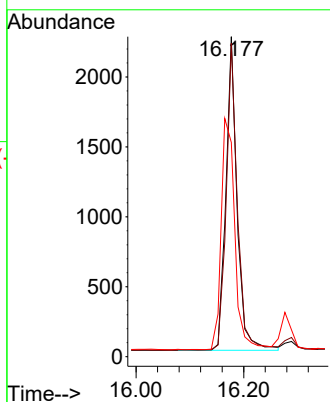
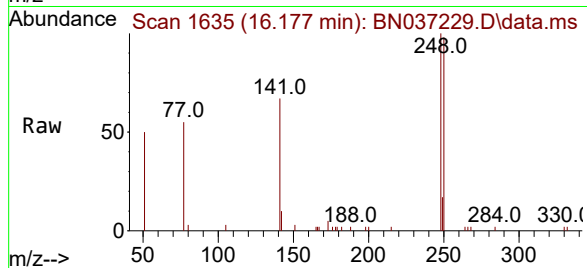




#21
4-Bromophenyl-phenylether
Concen: 1.709 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

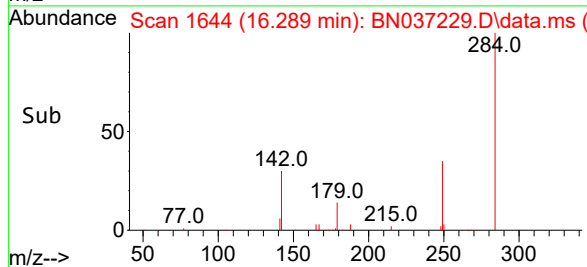
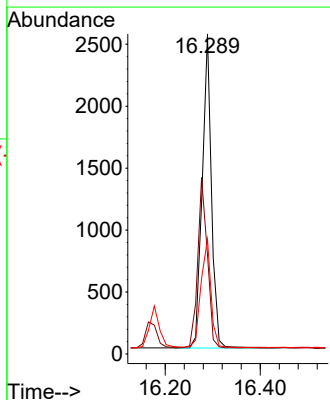
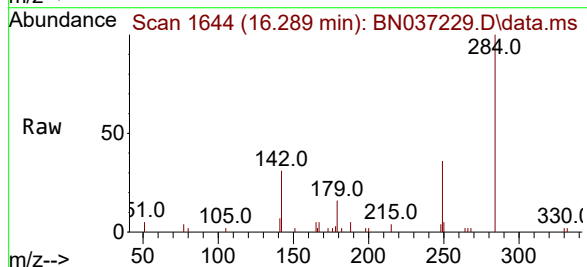
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

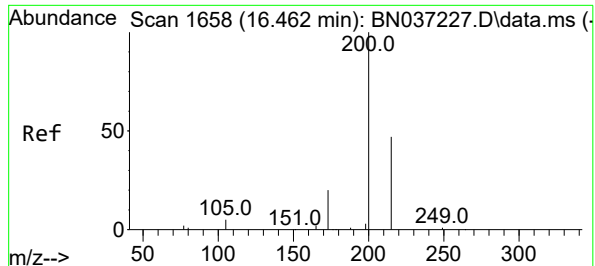
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.0	76.8	115.2
141	67.0	75.6	113.4#



#22
Hexachlorobenzene
Concen: 1.570 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.0	43.8	65.6
249	36.7	28.4	42.6

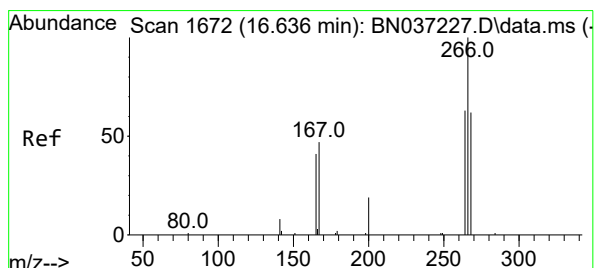
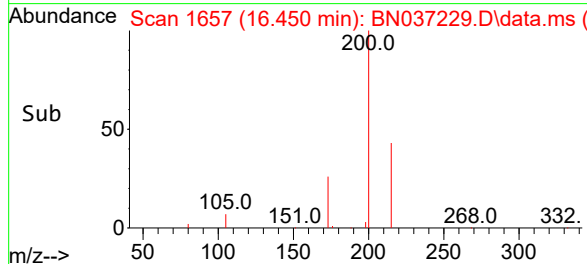
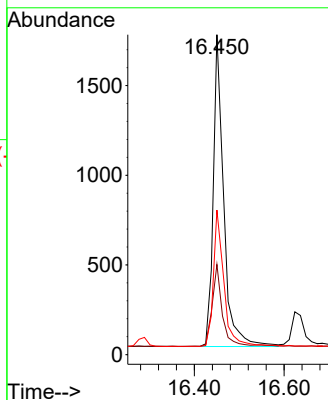
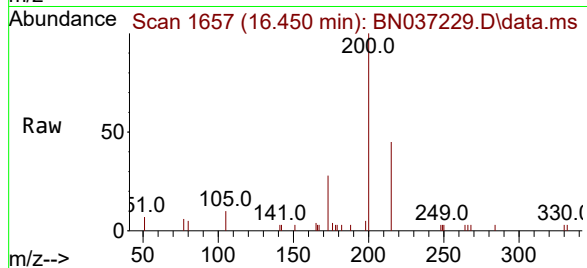




#23
Atrazine
Concen: 1.657 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

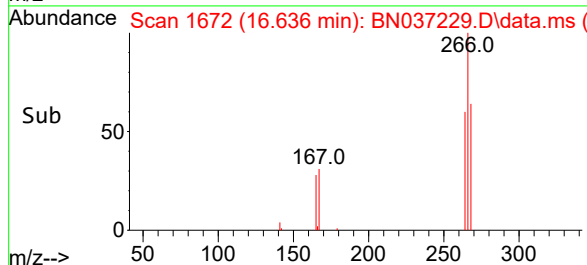
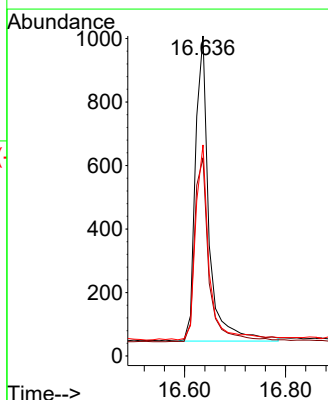
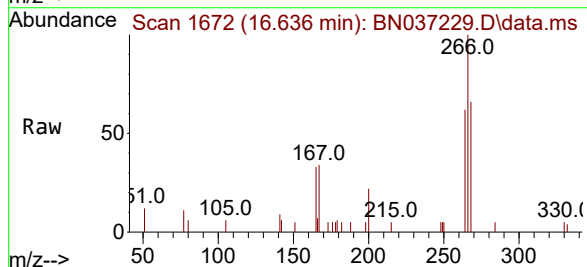
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

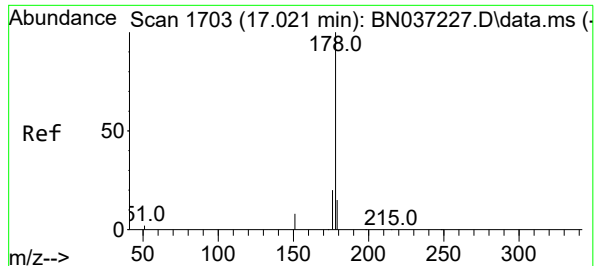
Tgt Ion	200	Resp	2809
Ion Ratio	100	Lower	Upper
173	28.2	25.1	37.7
215	45.2	43.7	65.5



#24
Pentachlorophenol
Concen: 1.667 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	266	Resp	1800
Ion Ratio	100	Lower	Upper
264	63.8	49.2	73.8
268	63.8	53.4	80.2

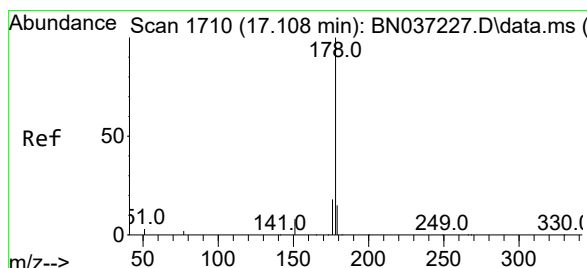
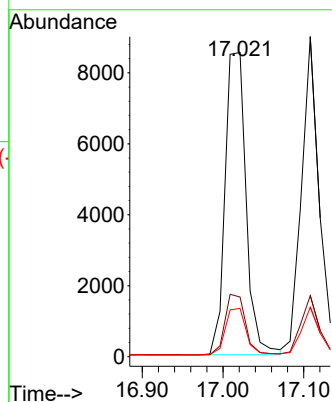
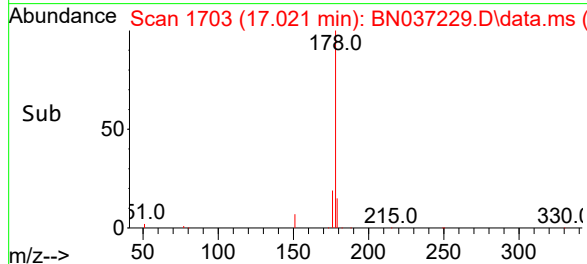
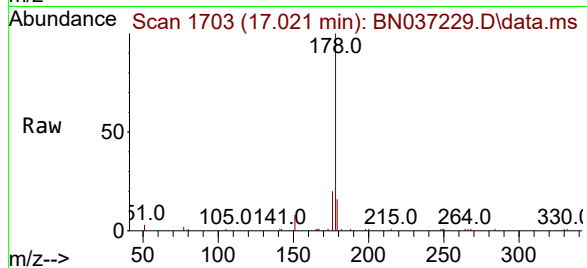




#25
Phenanthrene
Concen: 1.670 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

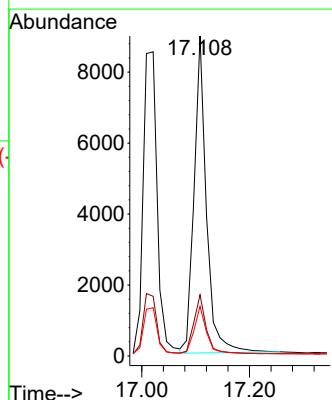
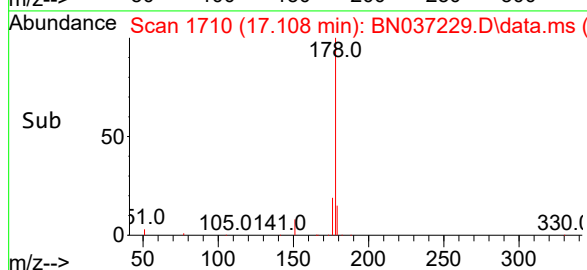
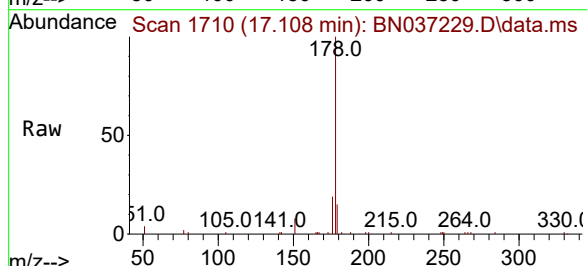
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

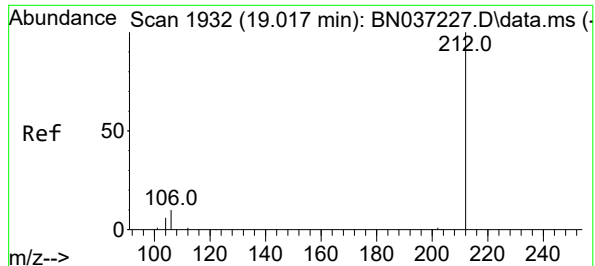
Tgt Ion:178 Resp: 15448
Ion Ratio Lower Upper
178 100
176 19.7 16.3 24.5
179 15.2 12.6 18.8



#26
Anthracene
Concen: 1.682 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:178 Resp: 14243
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.610 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

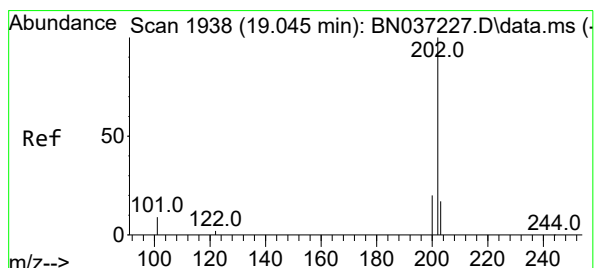
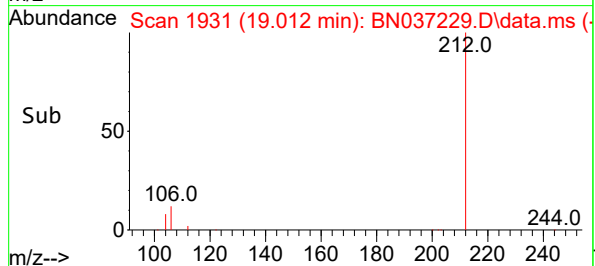
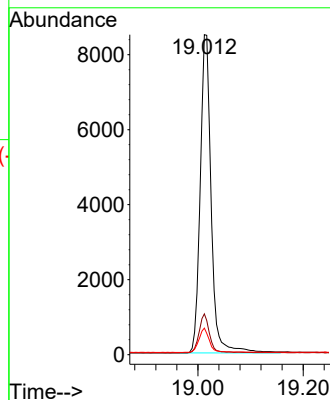
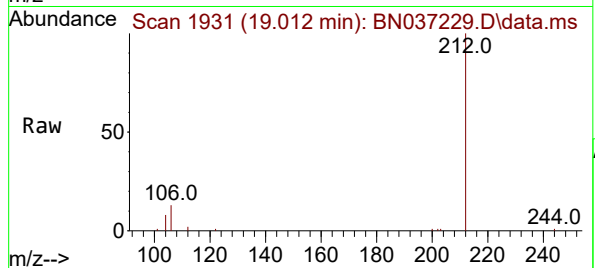
Tgt Ion:212 Resp: 12285

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

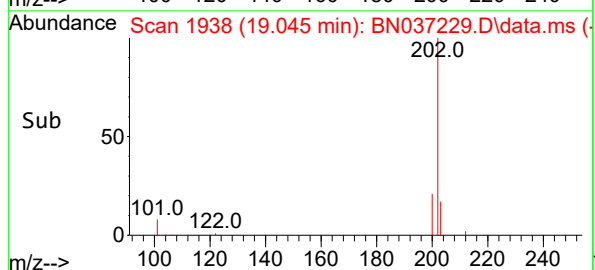
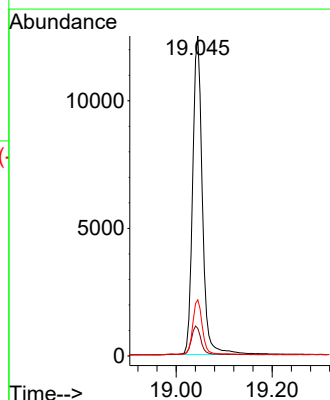
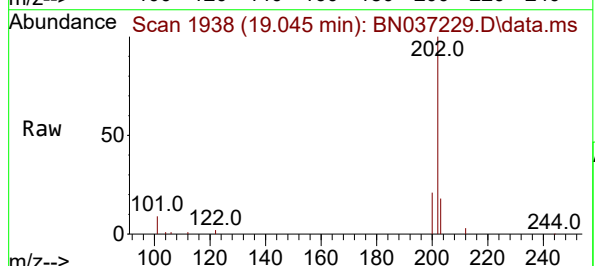
Tgt Ion:202 Resp: 17611

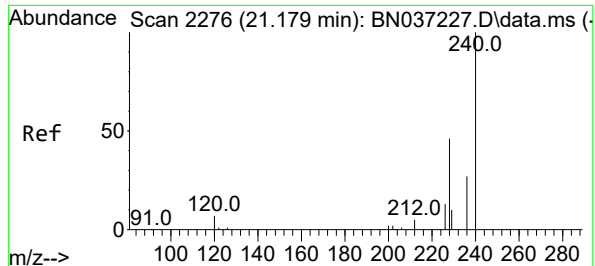
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 17.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

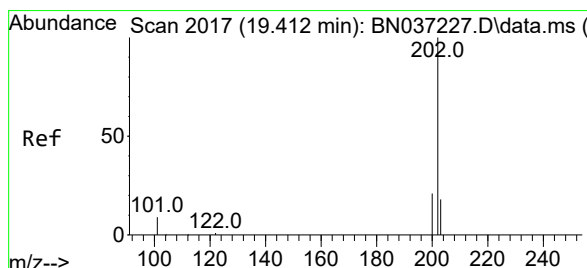
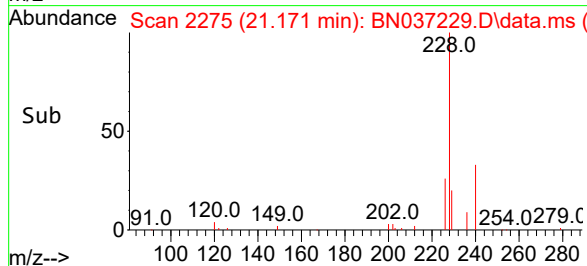
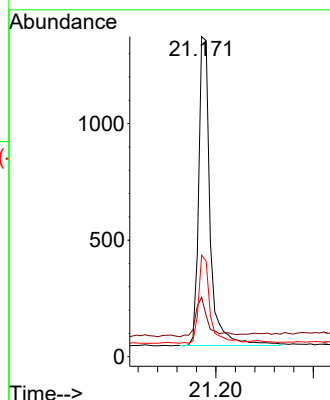
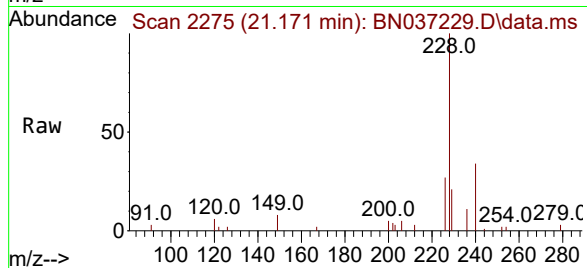
Tgt Ion:240 Resp: 2167

Ion Ratio Lower Upper

240 100

120 18.6 11.3 16.9#

236 31.8 24.4 36.6



#30

Pyrene

Concen: 1.716 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

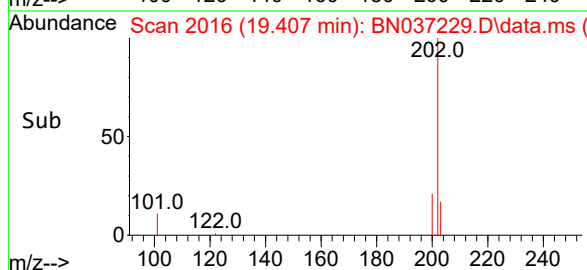
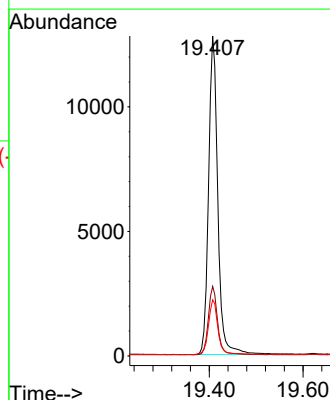
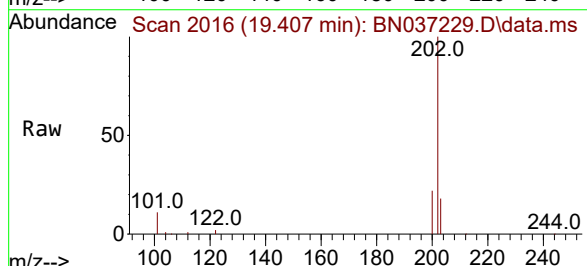
Tgt Ion:202 Resp: 17479

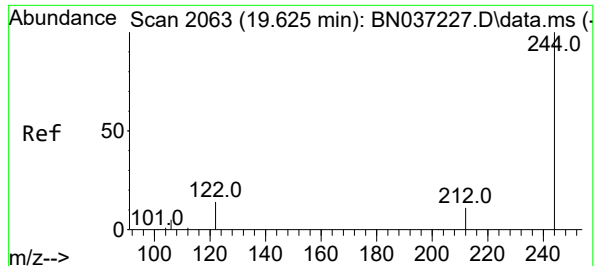
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.7 14.3 21.5

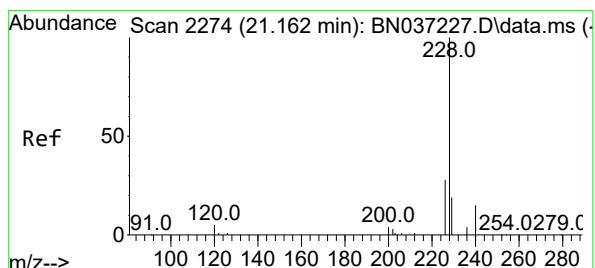
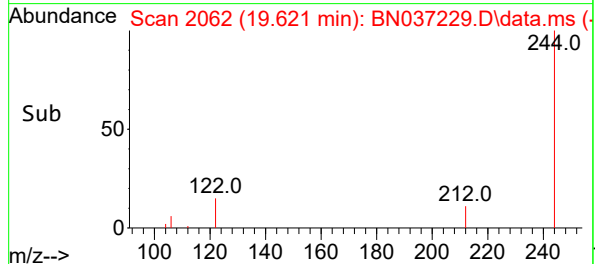
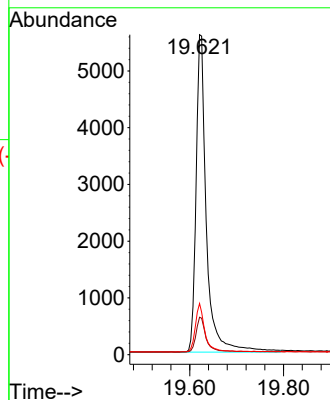
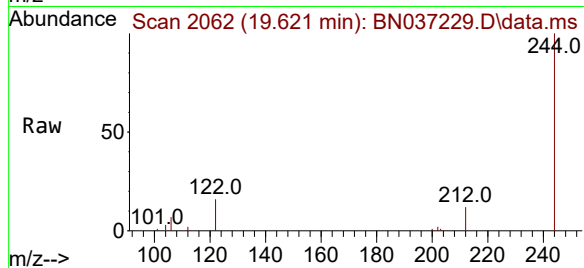




#31
Terphenyl-d14
Concen: 1.751 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

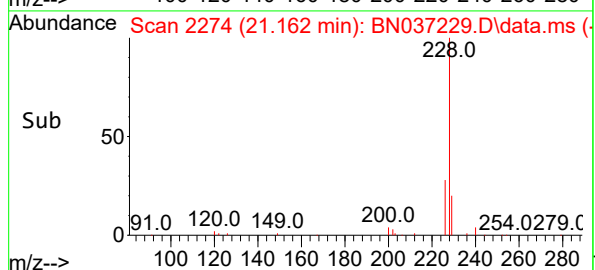
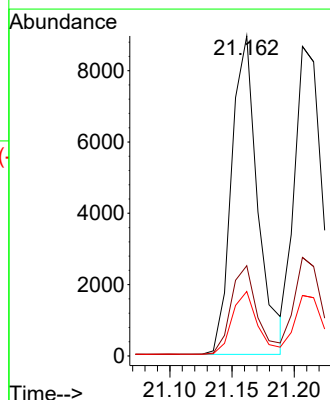
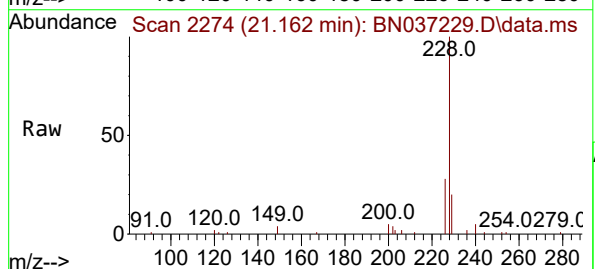
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

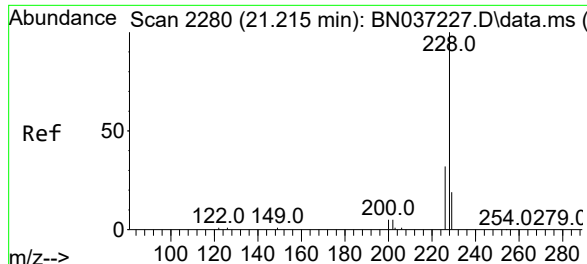
Tgt Ion:244 Resp: 8579
Ion Ratio Lower Upper
244 100
212 11.7 12.2 18.2#
122 16.0 14.3 21.5



#32
Benzo(a)anthracene
Concen: 1.791 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:228 Resp: 13105
Ion Ratio Lower Upper
228 100
226 28.2 23.8 35.8
229 20.1 17.0 25.4





#33

Chrysene

Concen: 1.627 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

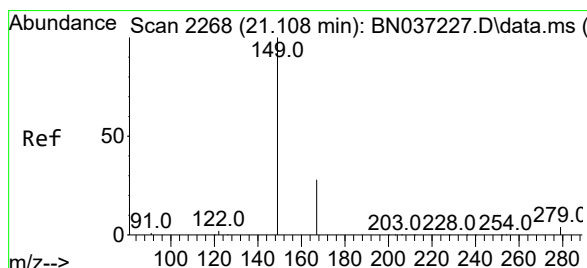
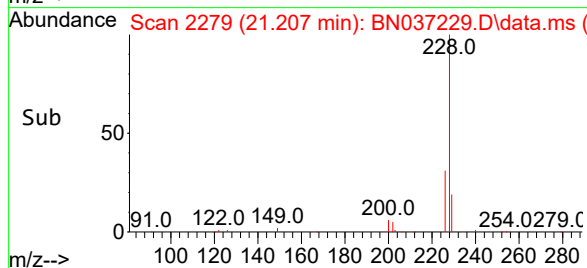
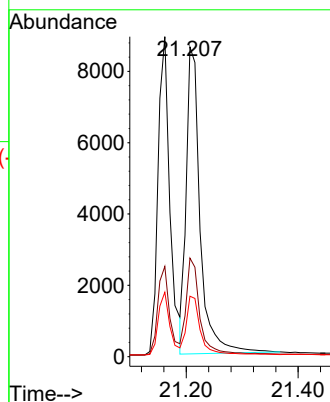
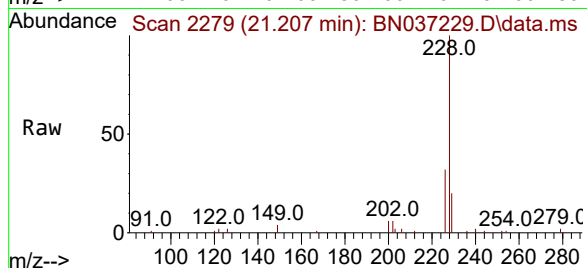
Tgt Ion:228 Resp: 14835

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 19.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.599 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

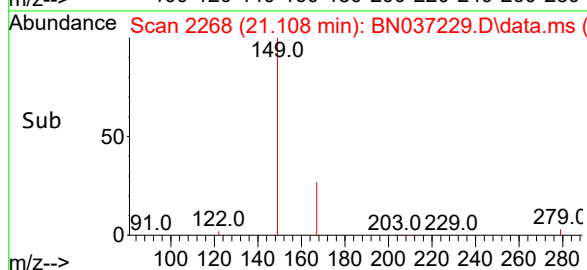
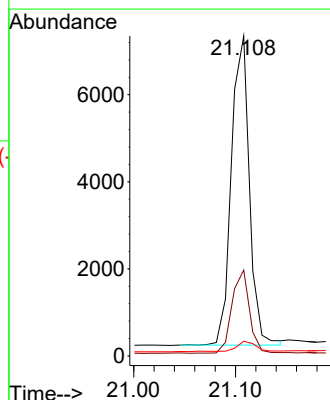
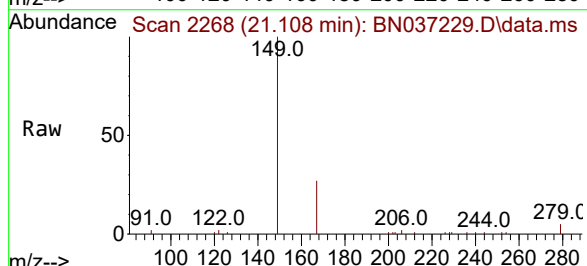
Tgt Ion:149 Resp: 8716

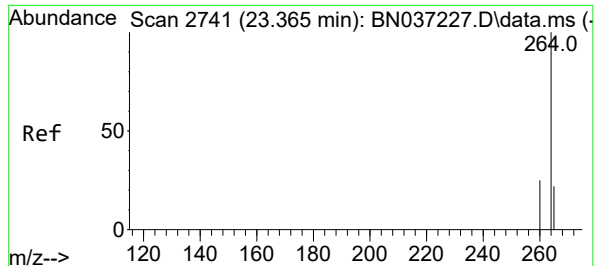
Ion Ratio Lower Upper

149 100

167 26.3 21.3 31.9

279 3.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

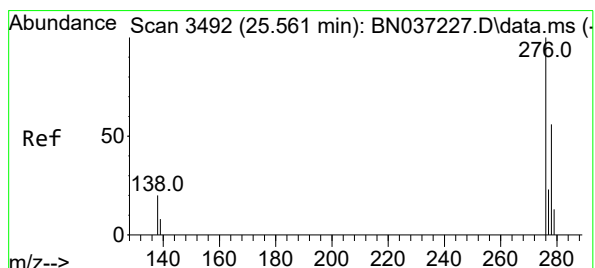
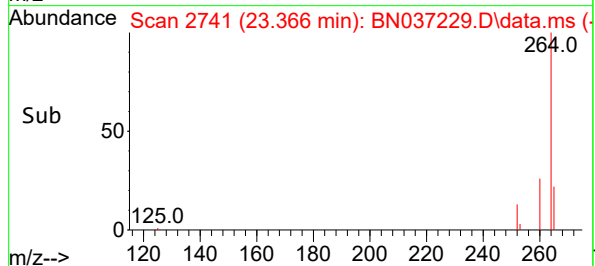
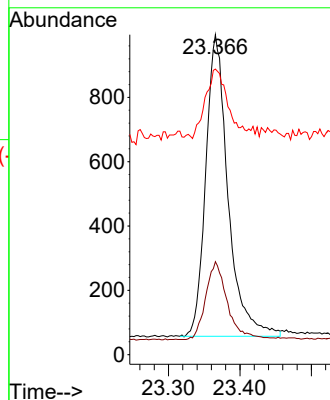
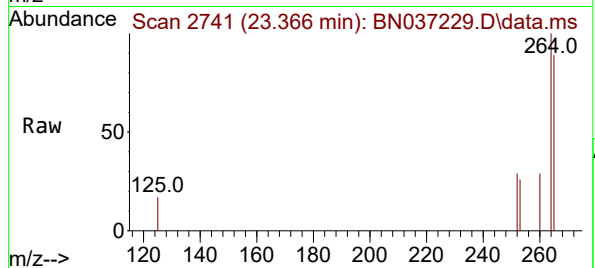
Tgt Ion:264 Resp: 2036

Ion Ratio Lower Upper

264 100

260 29.0 22.8 34.2

265 89.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.704 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

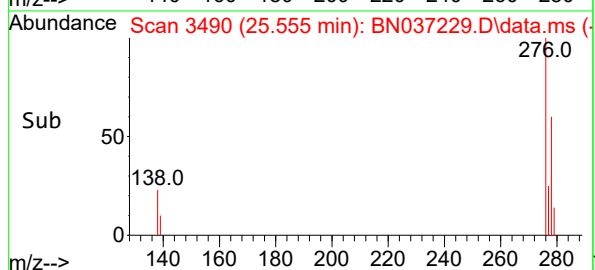
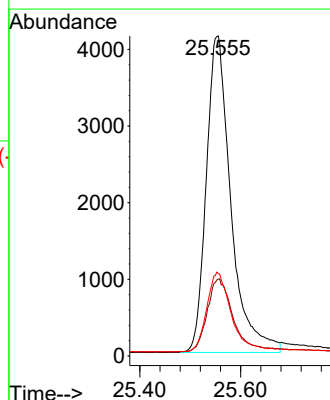
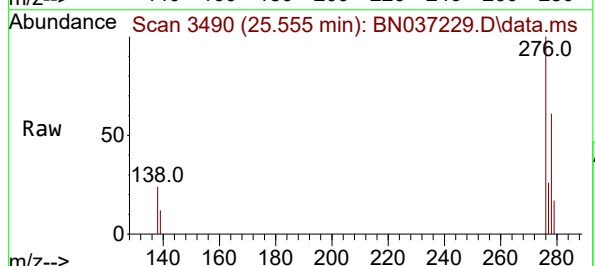
Tgt Ion:276 Resp: 13992

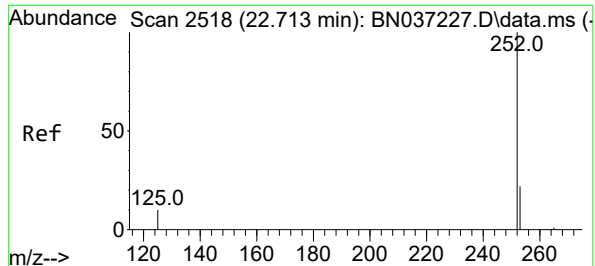
Ion Ratio Lower Upper

276 100

138 23.7 16.8 25.2

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.769 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

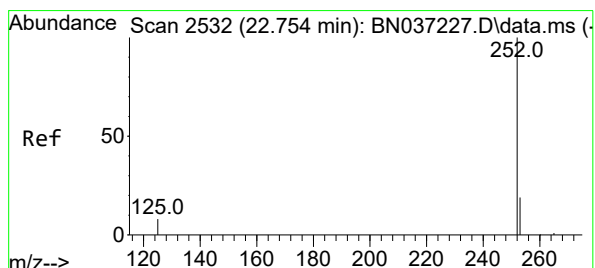
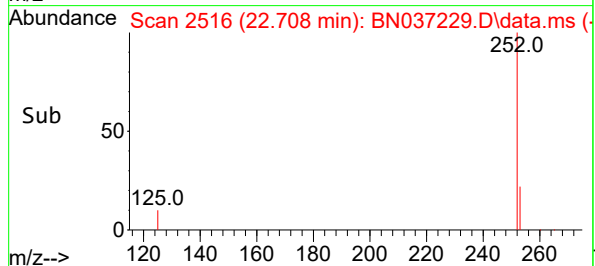
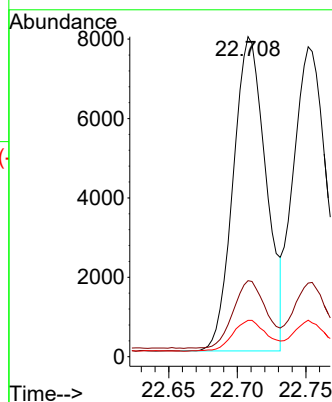
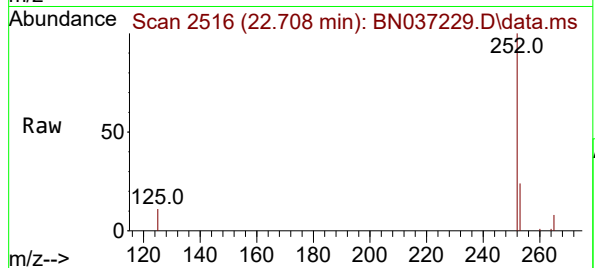
Tgt Ion:252 Resp: 13177

Ion Ratio Lower Upper

252 100

253 23.8 24.9 37.3#

125 11.4 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 1.675 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

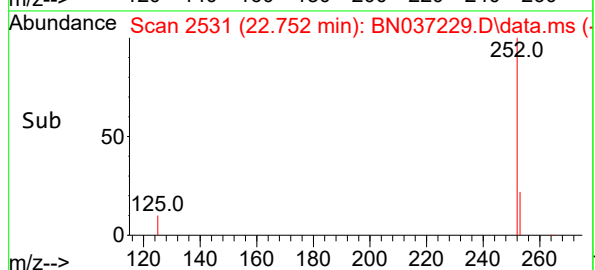
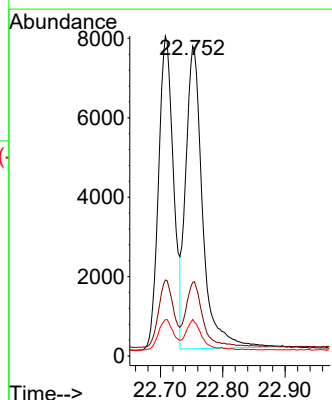
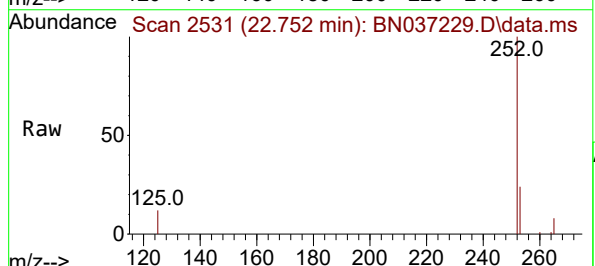
Tgt Ion:252 Resp: 14311

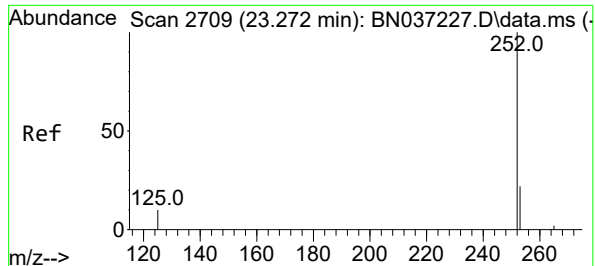
Ion Ratio Lower Upper

252 100

253 23.8 24.6 37.0#

125 11.8 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 1.710 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

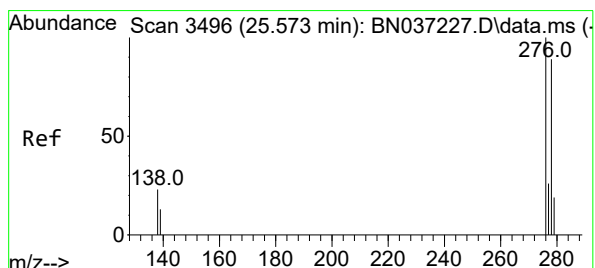
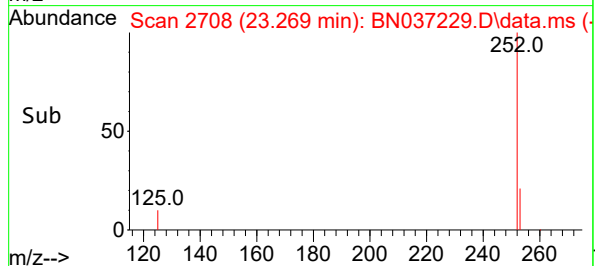
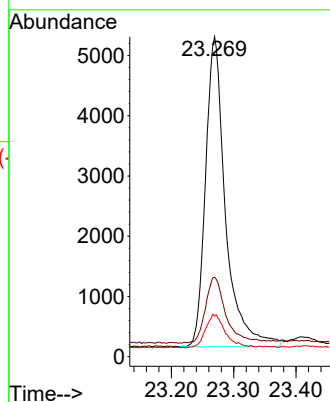
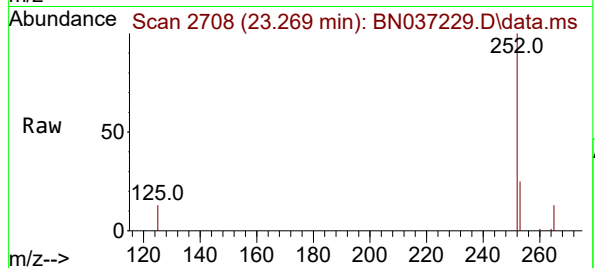
Tgt Ion:252 Resp: 11458

Ion Ratio Lower Upper

252 100

253 24.9 29.4 44.2#

125 12.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.793 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

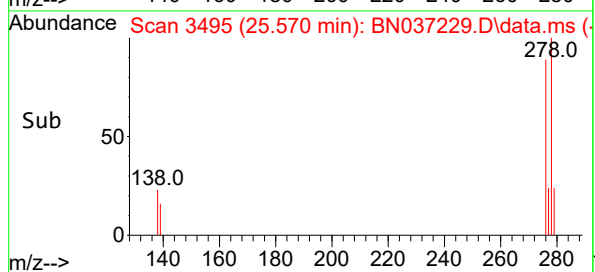
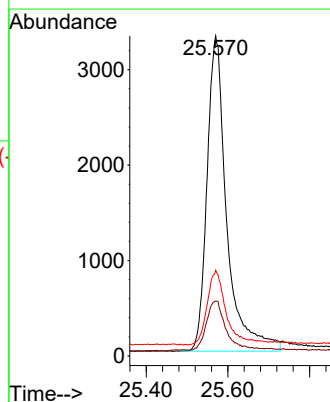
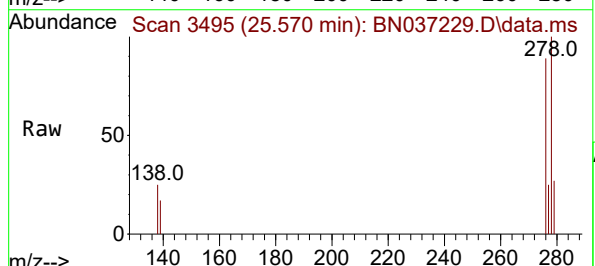
Tgt Ion:278 Resp: 11091

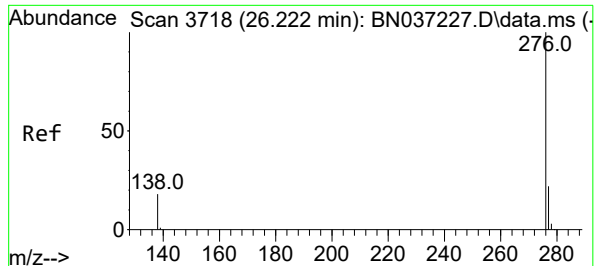
Ion Ratio Lower Upper

278 100

139 17.1 17.8 26.6#

279 26.8 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 1.665 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037229.D

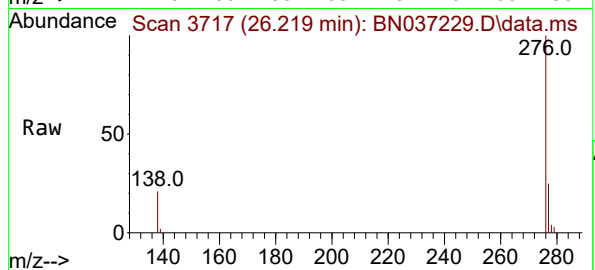
Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



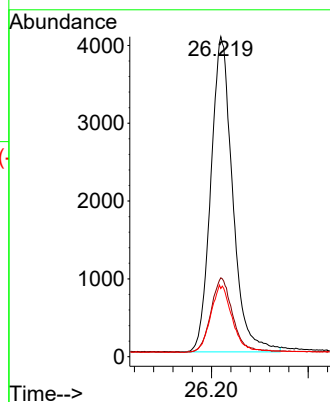
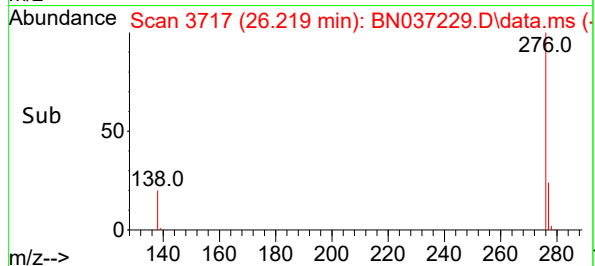
Tgt Ion:276 Resp: 12677

Ion Ratio Lower Upper

276 100

277 24.7 22.0 33.0

138 21.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037230.D
 Acq On : 13 Jun 2025 16:35
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

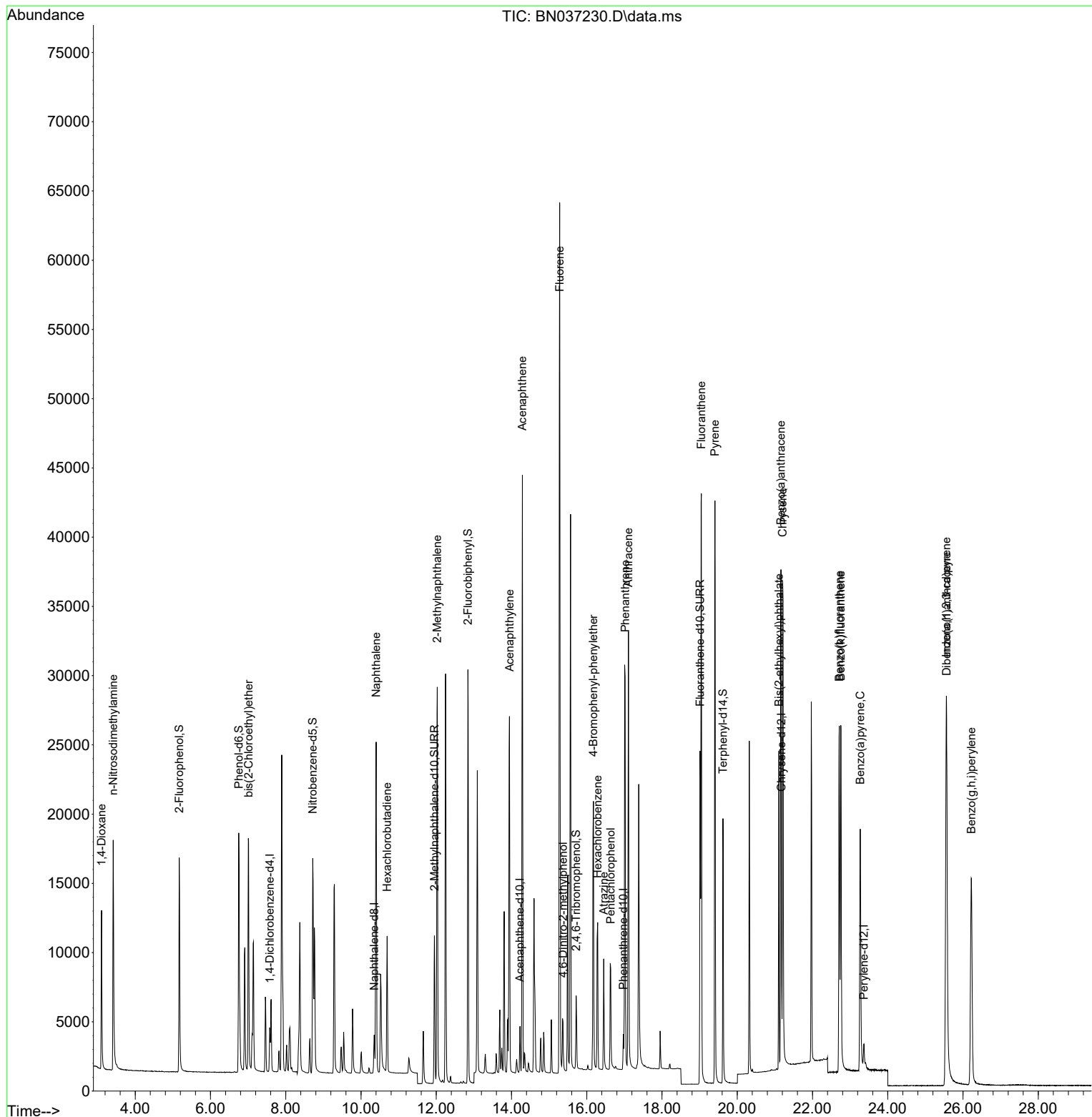
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1362	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3277	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1730	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3218	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2562	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2434	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	10792	3.226	ng	0.00
5) Phenol-d6	6.752	99	12700	3.602	ng	0.00
8) Nitrobenzene-d5	8.717	82	11592	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	14468	3.290	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	2530	3.521	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	24600	3.384	ng	0.00
27) Fluoranthene-d10	19.012	212	26844	3.188	ng	0.00
31) Terphenyl-d14	19.621	244	19247	3.323	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	5606	3.000	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.415	42	13425	3.153	ng	97
6) bis(2-Chloroethyl)ether	7.012	93	11592	3.671	ng	94
9) Naphthalene	10.404	128	30442	3.208	ng	95
10) Hexachlorobutadiene	10.693	225	6997	3.031	ng	# 98
12) 2-Methylnaphthalene	12.026	142	19566	3.392	ng	98
16) Acenaphthylene	13.946	152	28536	3.366	ng	99
17) Acenaphthene	14.288	154	18242	3.334	ng	98
18) Fluorene	15.282	166	23723	3.375	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	2836	3.223	ng	# 37
21) 4-Bromophenyl-phenylether	16.177	248	7106	3.389	ng	# 83
22) Hexachlorobenzene	16.289	284	7308	3.006	ng	97
23) Atrazine	16.450	200	6193	3.311	ng	88
24) Pentachlorophenol	16.636	266	4179	3.508	ng	98
25) Phenanthrene	17.021	178	34176	3.349	ng	99
26) Anthracene	17.108	178	32366	3.464	ng	99
28) Fluoranthene	19.045	202	38876	3.254	ng	98
30) Pyrene	19.407	202	38772	3.219	ng	100
32) Benzo(a)anthracene	21.162	228	30893	3.571	ng	96
33) Chrysene	21.207	228	33474	3.106	ng	97
34) Bis(2-ethylhexyl)phtha...	21.108	149	19300	2.996	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.556	276	34219	3.486	ng	# 94
37) Benzo(b)fluoranthene	22.711	252	30687	3.447	ng	# 85
38) Benzo(k)fluoranthene	22.752	252	33172	3.248	ng	# 85
39) Benzo(a)pyrene	23.269	252	26918	3.361	ng	# 79
40) Dibenzo(a,h)anthracene	25.564	278	27744	3.751	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	30489	3.350	ng	95

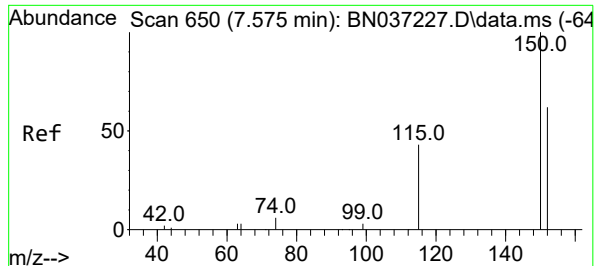
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037230.D
Acq On : 13 Jun 2025 16:35
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

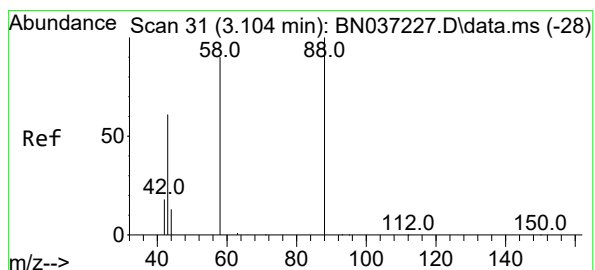
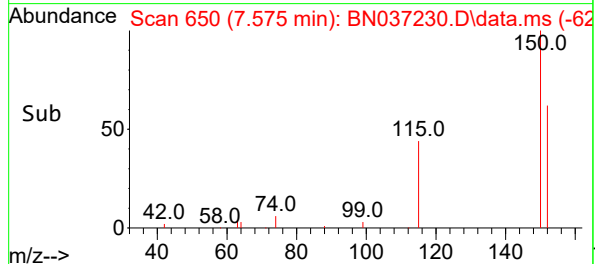
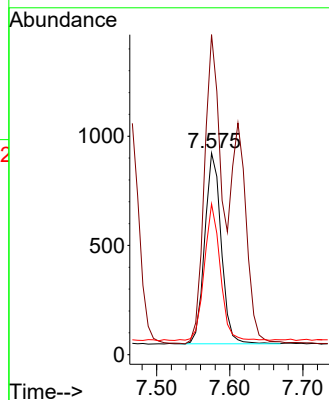
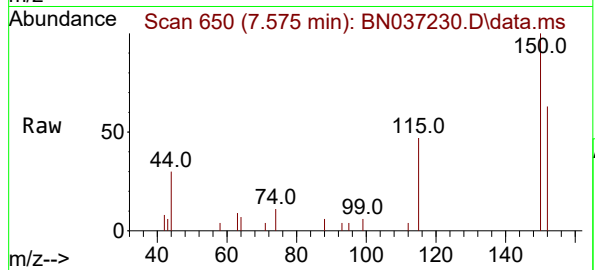




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

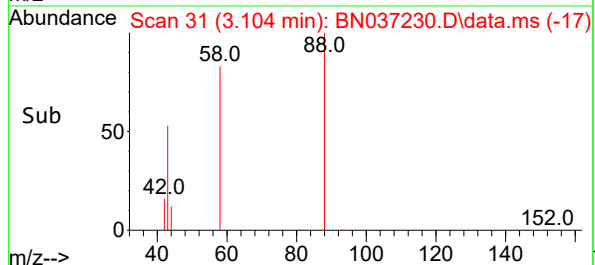
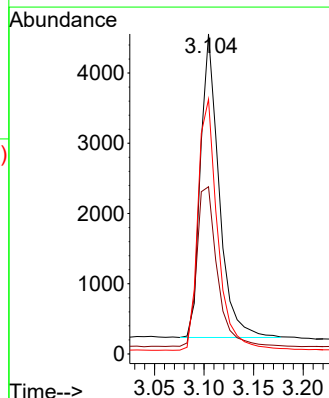
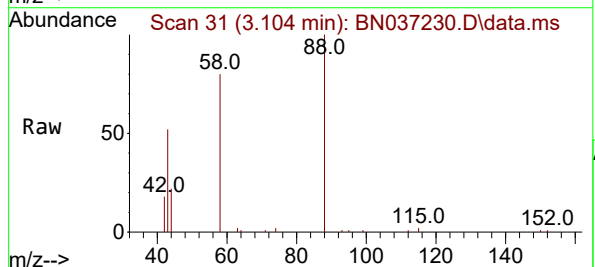
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

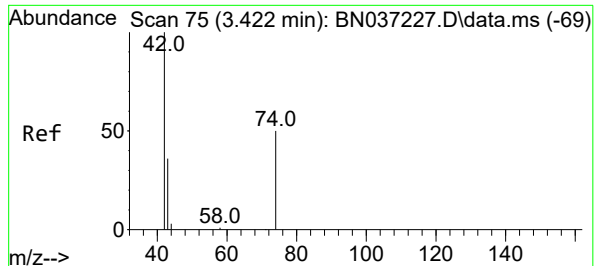
Tgt Ion:152 Resp: 1362
Ion Ratio Lower Upper
152 100
150 158.7 125.2 187.8
115 74.8 58.4 87.6



#2
1,4-Dioxane
Concen: 3.000 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 88 Resp: 5606
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 88.1 73.5 110.3

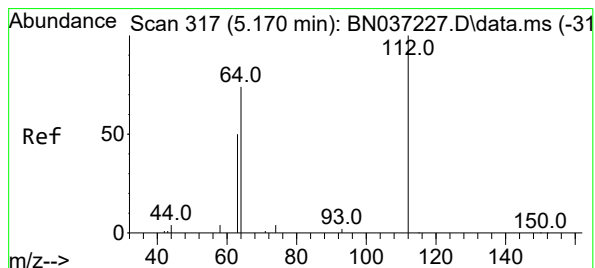
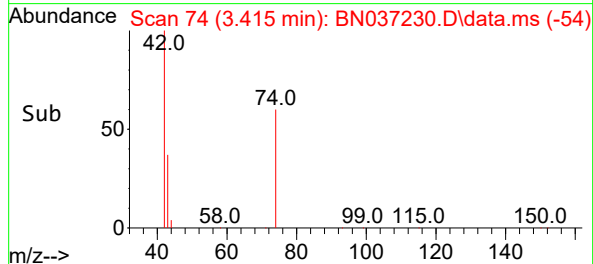
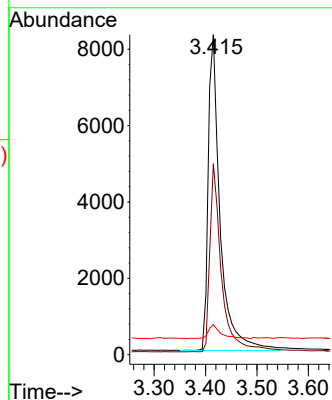
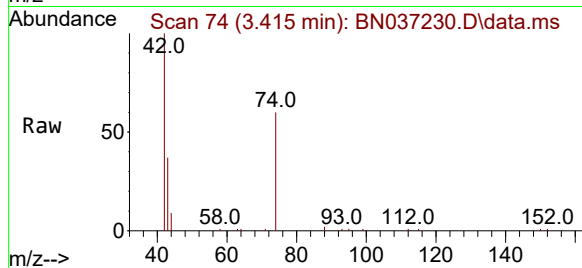




#3
n-Nitrosodimethylamine
Concen: 3.153 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

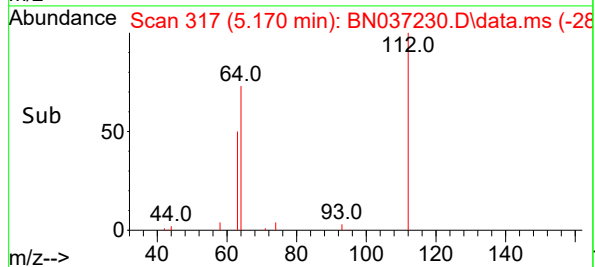
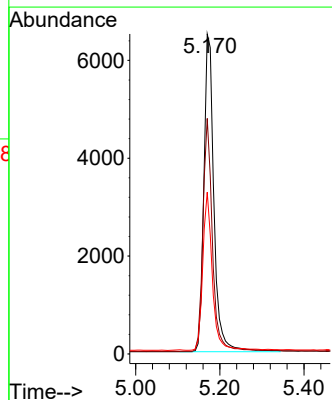
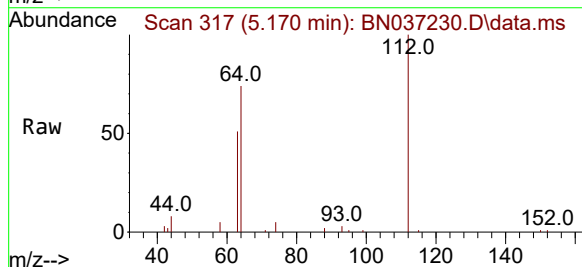
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

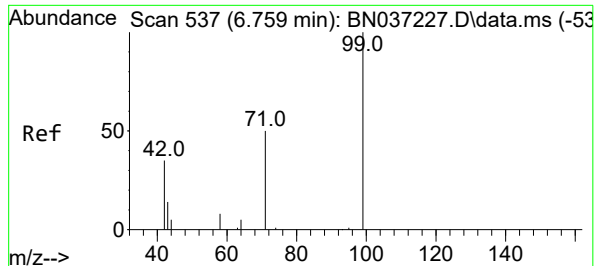
Tgt Ion: 42 Resp: 13425
Ion Ratio Lower Upper
42 100
74 58.0 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 3.226 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 112 Resp: 10792
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.3 39.8 59.6

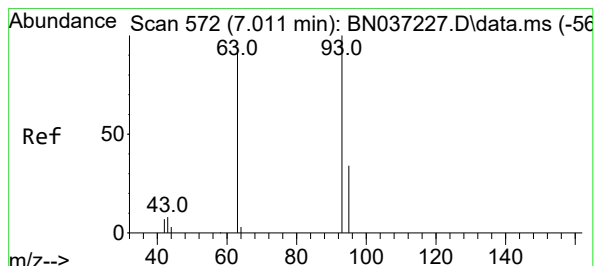
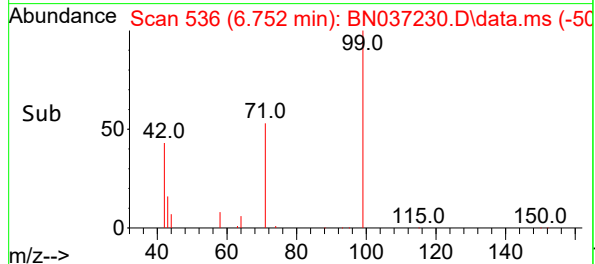
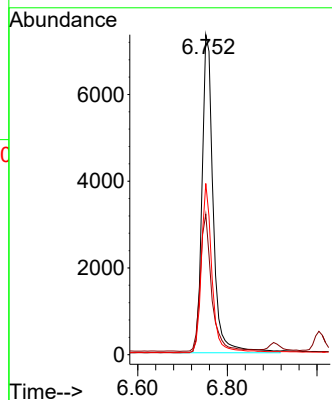
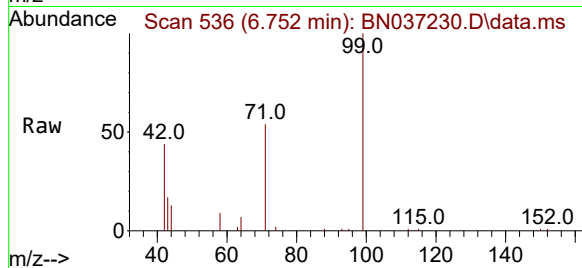




#5
Phenol-d6
Concen: 3.602 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

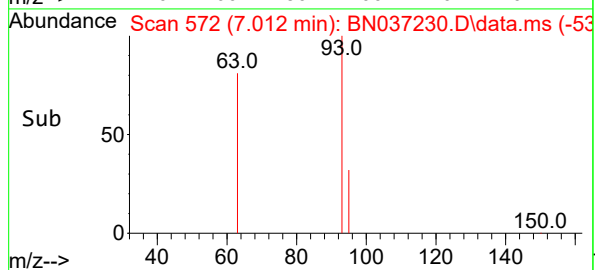
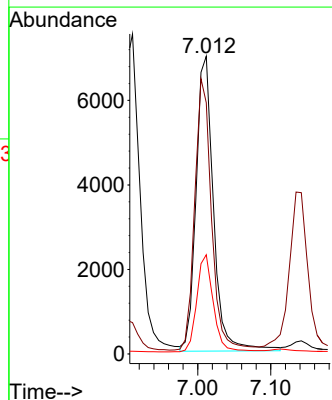
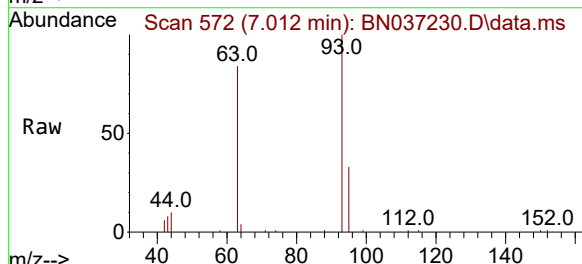
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

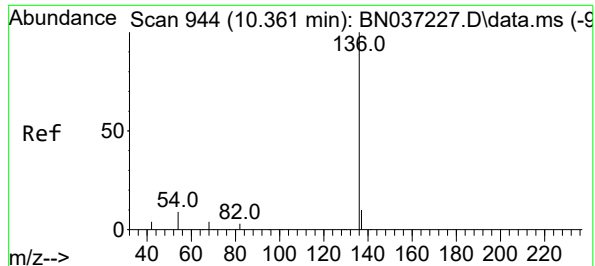
Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.5	36.2	54.4
71	51.2	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 3.671 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.1	75.2	112.8
95	31.1	28.3	42.5

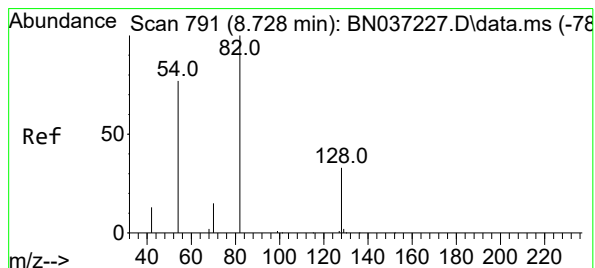
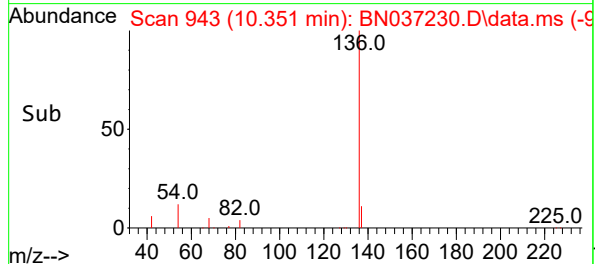
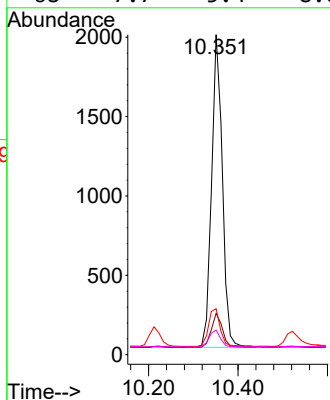
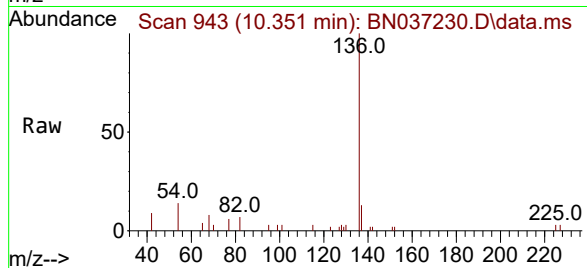




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

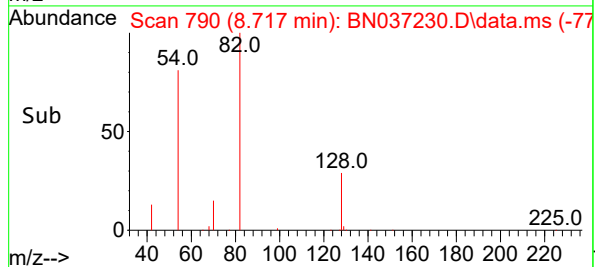
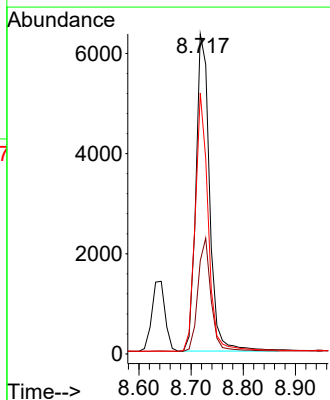
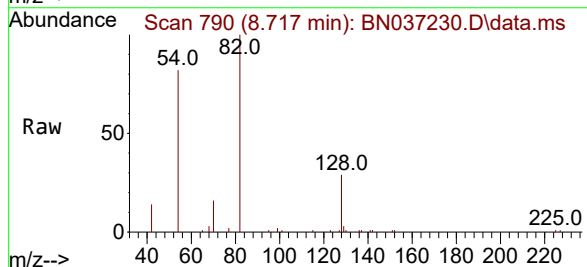
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

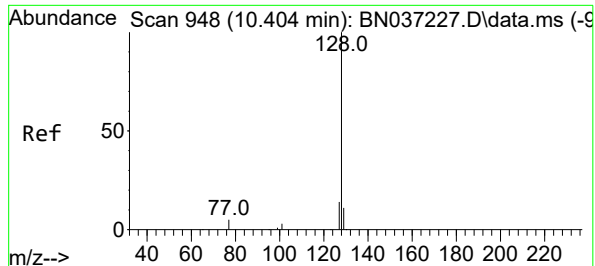
Tgt Ion:136	Resp:	3277
Ion	Ratio	Lower Upper
136	100	
137	12.9	10.6 15.8
54	14.4	9.2 13.8#
68	7.7	5.4 8.0



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 82	Resp:	11592
Ion	Ratio	Lower Upper
82	100	
128	29.1	31.2 46.8#
54	81.6	63.3 94.9

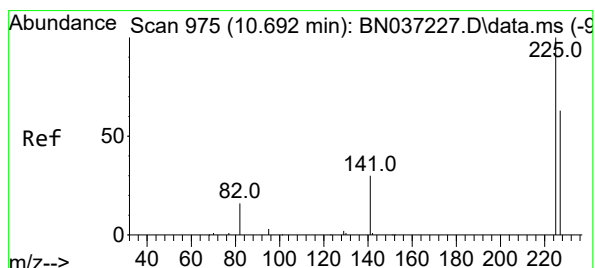
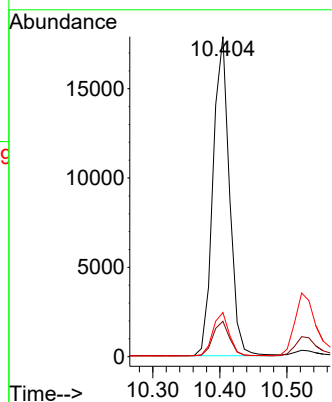
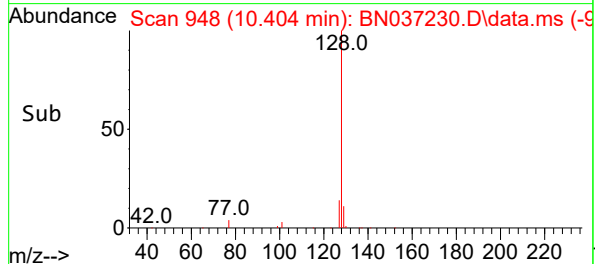
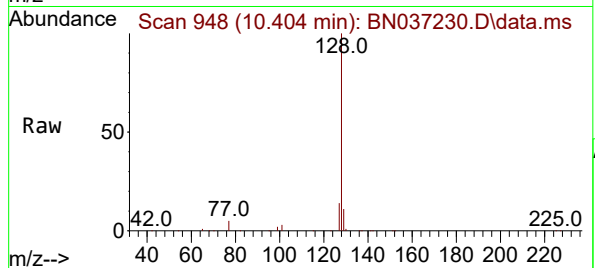




#9
Naphthalene
Concen: 3.208 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

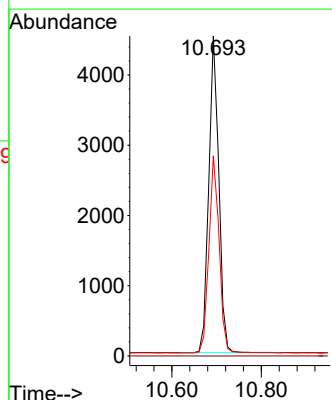
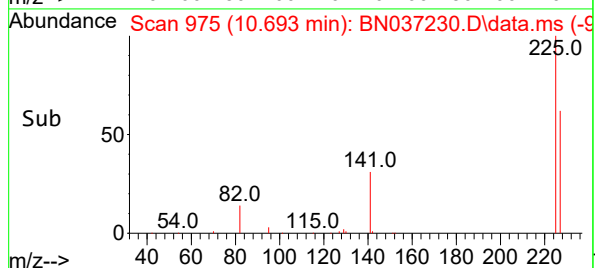
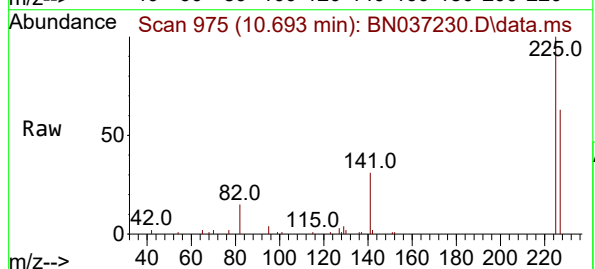
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

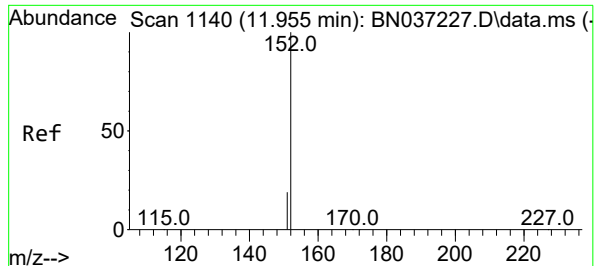
Tgt Ion:128 Resp: 30442
Ion Ratio Lower Upper
128 100
129 11.1 10.7 16.1
127 13.8 12.6 19.0



#10
Hexachlorobutadiene
Concen: 3.031 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:225 Resp: 6997
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 49.2 73.8

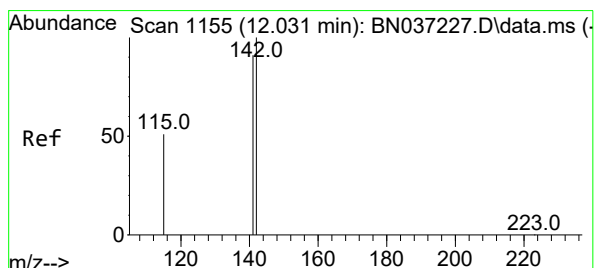
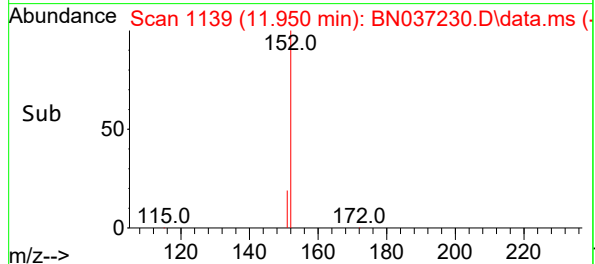
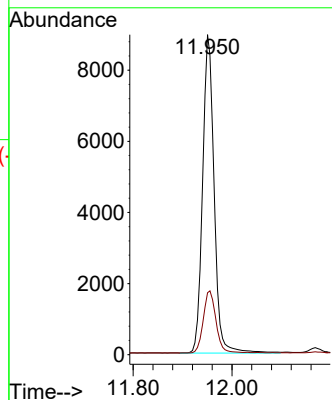
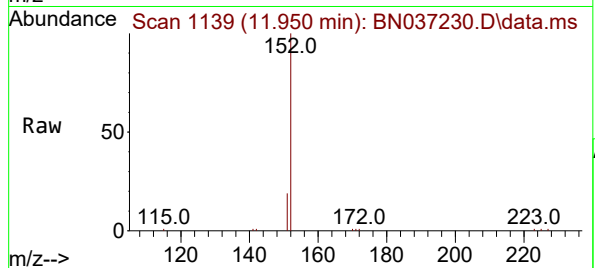




#11
2-Methylnaphthalene-d10
Concen: 3.290 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

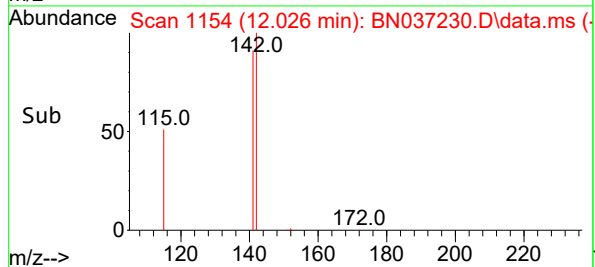
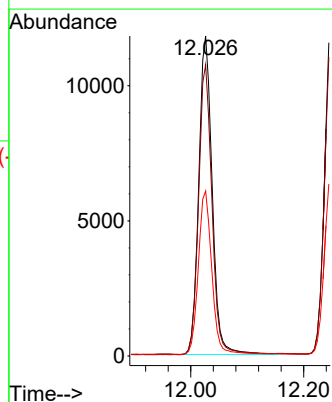
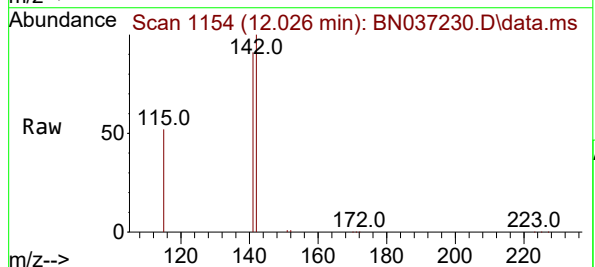
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

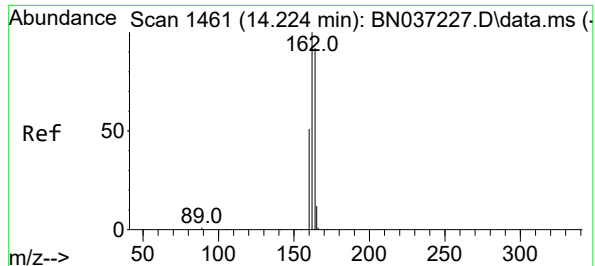
Tgt Ion:152 Resp: 14468
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 3.392 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:142 Resp: 19566
Ion Ratio Lower Upper
142 100
141 91.0 73.0 109.6
115 51.5 43.3 64.9

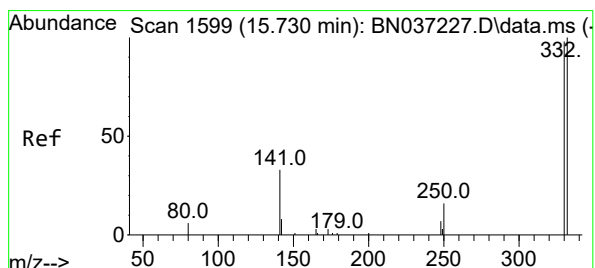
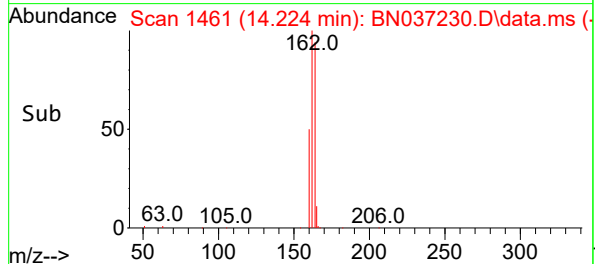
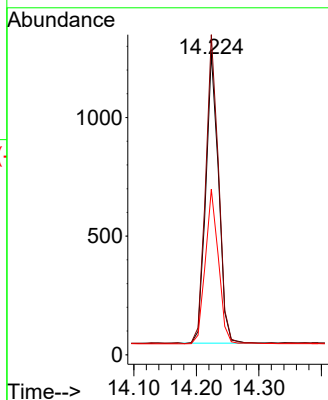
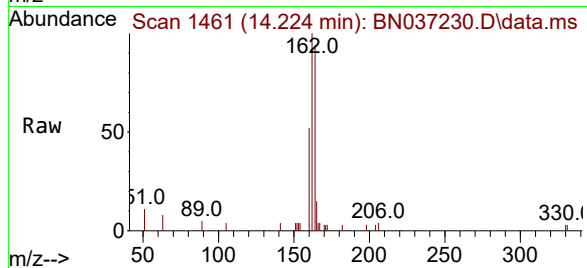




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

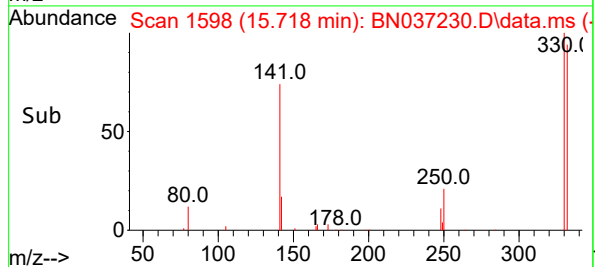
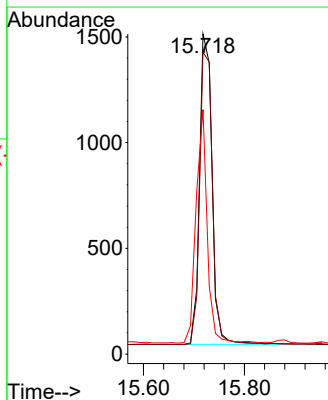
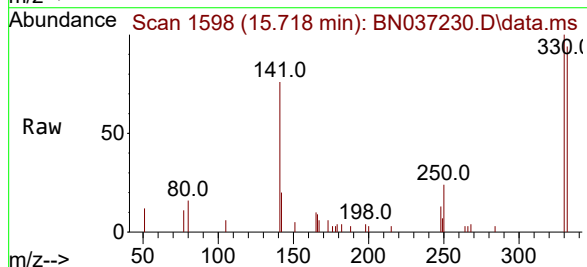
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

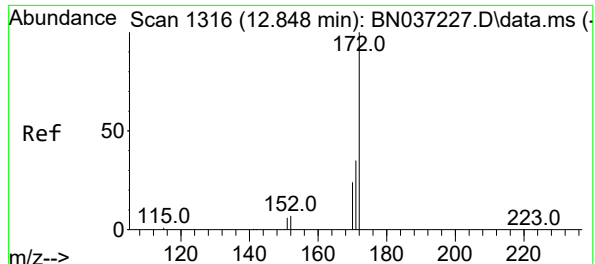
Tgt Ion:164 Resp: 1730
Ion Ratio Lower Upper
164 100
162 106.3 86.7 130.1
160 55.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 3.521 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:330 Resp: 2530
Ion Ratio Lower Upper
330 100
332 96.8 74.9 112.3
141 67.2 45.1 67.7

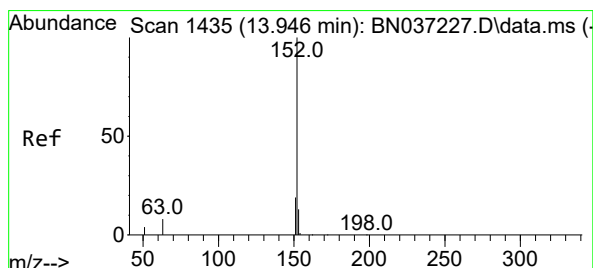
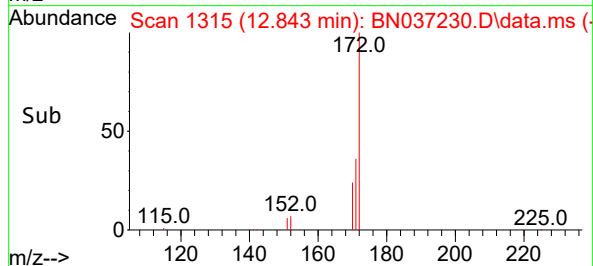
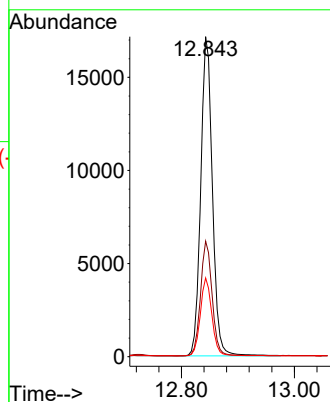
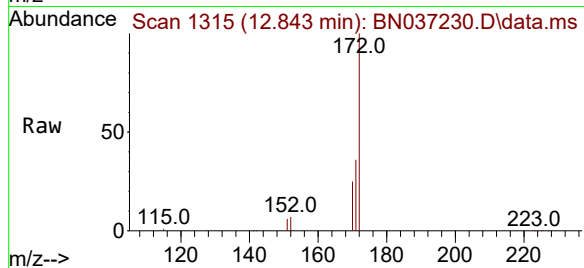




#15
2-Fluorobiphenyl
Concen: 3.384 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

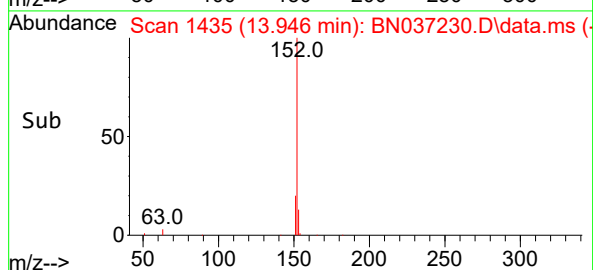
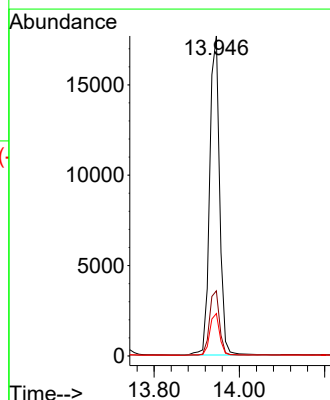
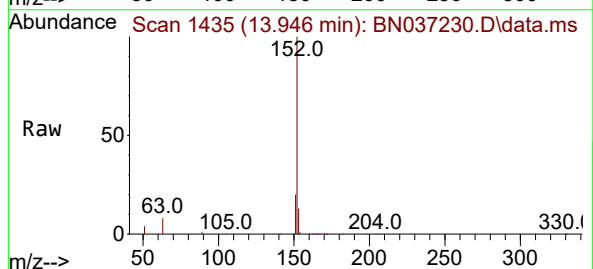
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

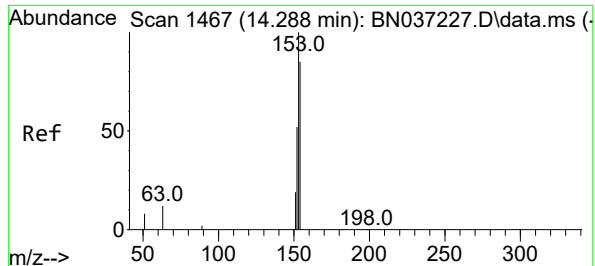
Tgt Ion:172 Resp: 24600
Ion Ratio Lower Upper
172 100
171 36.1 29.8 44.8
170 24.6 21.1 31.7



#16
Acenaphthylene
Concen: 3.366 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:152 Resp: 28536
Ion Ratio Lower Upper
152 100
151 20.3 15.7 23.5
153 12.9 10.7 16.1

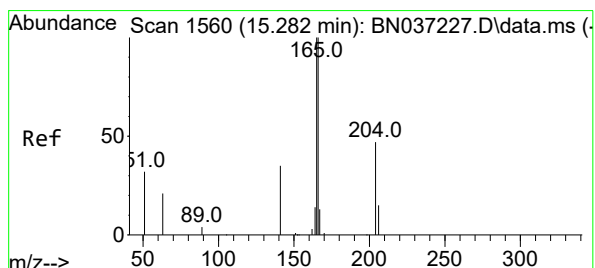
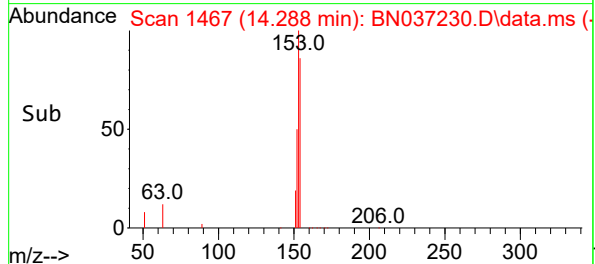
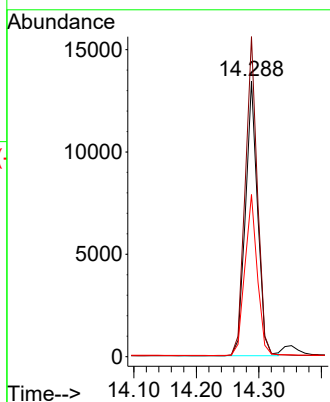
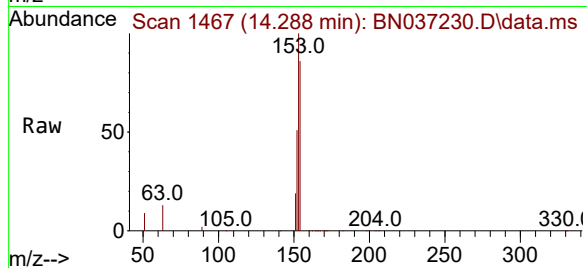




#17
Acenaphthene
Concen: 3.334 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

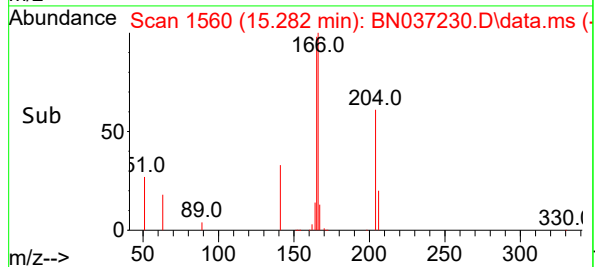
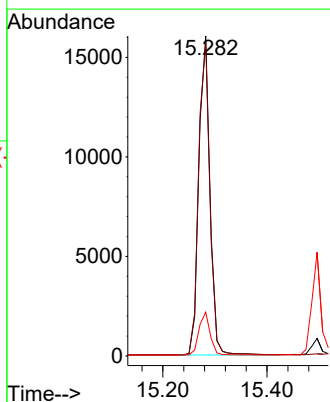
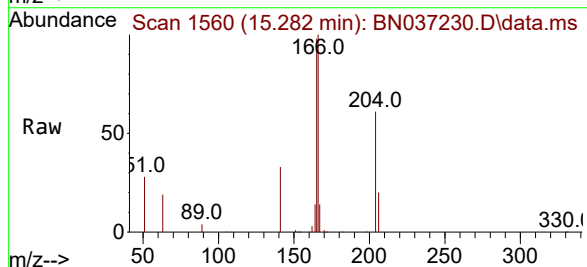
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

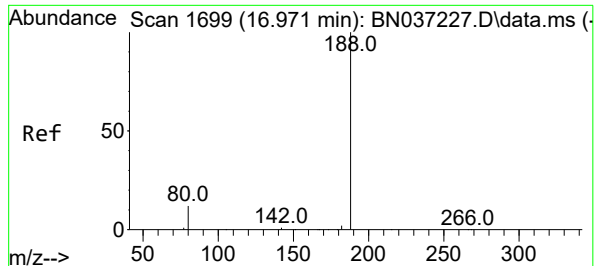
Tgt Ion:154 Resp: 18242
Ion Ratio Lower Upper
154 100
153 116.2 94.6 141.8
152 60.0 49.6 74.4



#18
Fluorene
Concen: 3.375 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:166 Resp: 23723
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.6
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

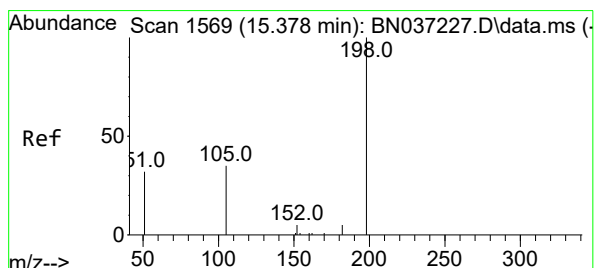
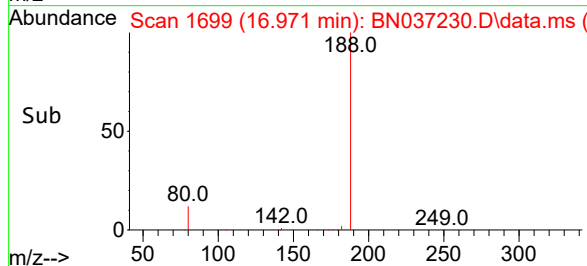
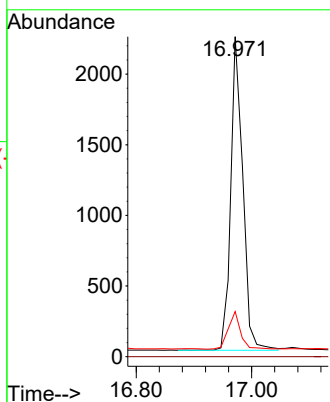
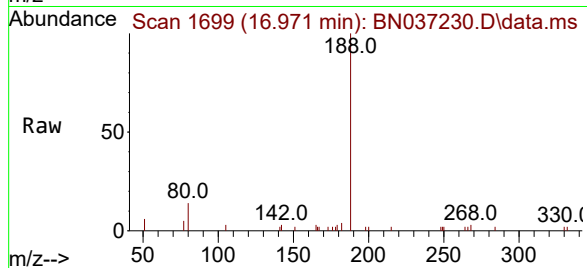
Tgt Ion:188 Resp: 3218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.223 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

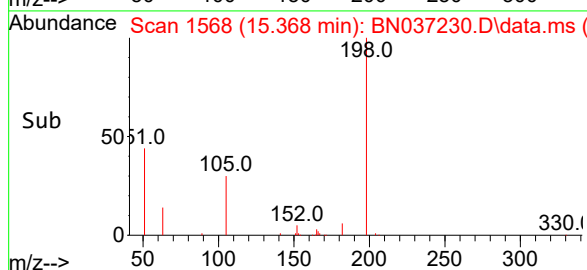
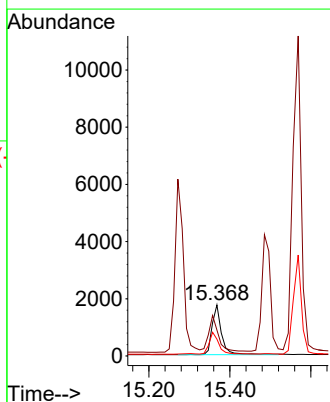
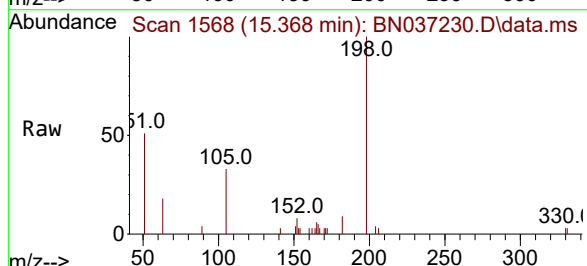
Tgt Ion:198 Resp: 2836

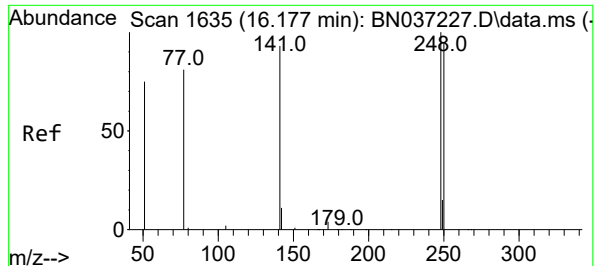
Ion Ratio Lower Upper

198 100

51 50.6 111.2 166.8#

105 32.9 54.0 81.0#

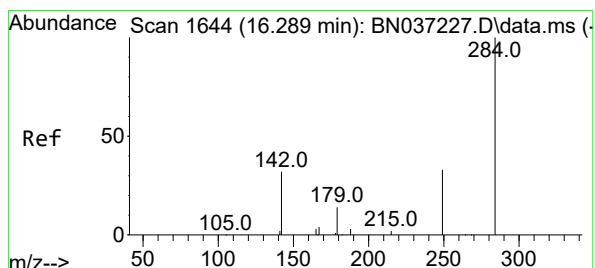
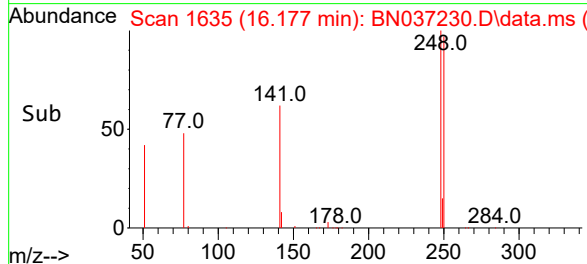
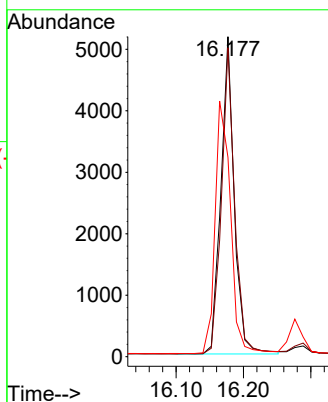
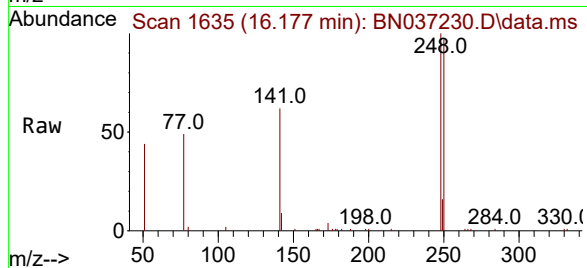




#21
4-Bromophenyl-phenylether
Concen: 3.389 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

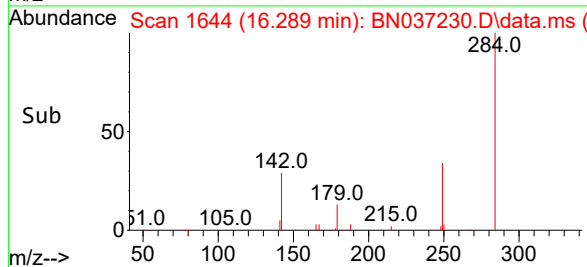
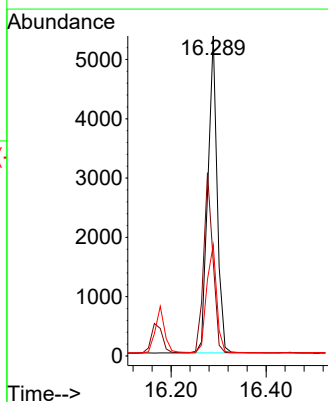
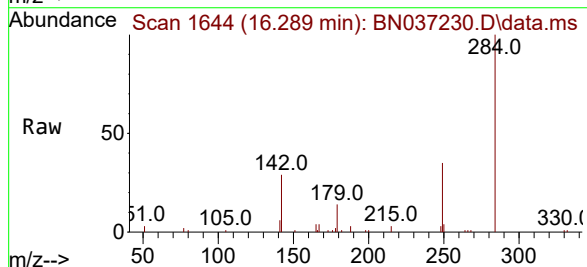
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

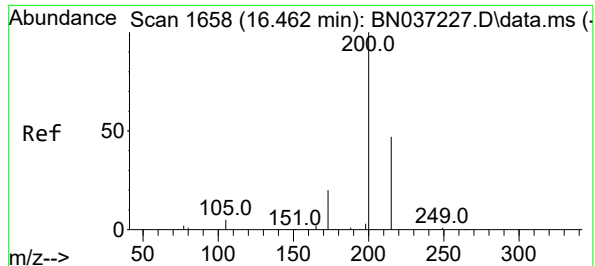
Tgt Ion:248 Resp: 7106
Ion Ratio Lower Upper
248 100
250 96.6 76.8 115.2
141 62.3 75.6 113.4#



#22
Hexachlorobenzene
Concen: 3.006 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:284 Resp: 7308
Ion Ratio Lower Upper
284 100
142 57.3 43.8 65.6
249 36.7 28.4 42.6

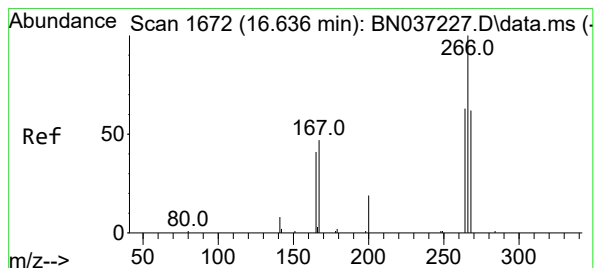
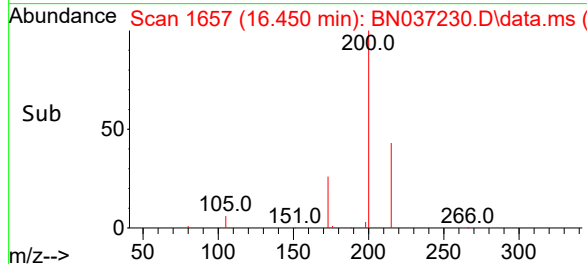
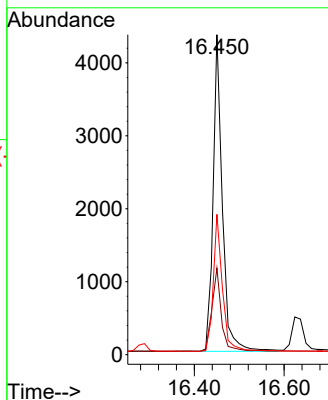
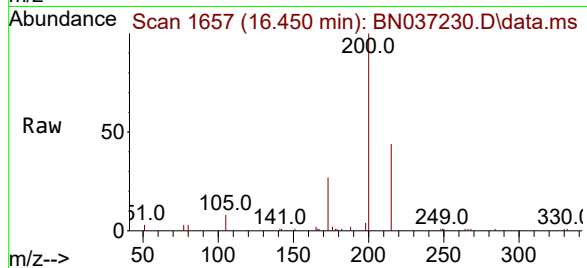




#23
Atrazine
Concen: 3.311 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

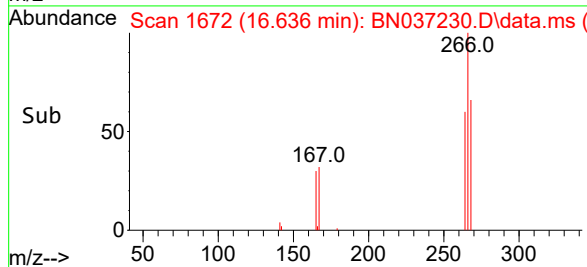
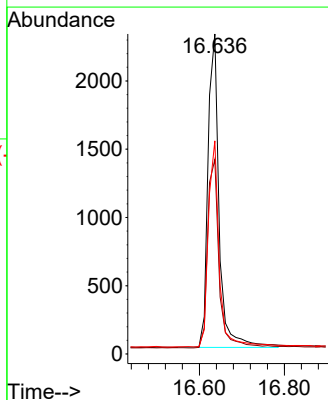
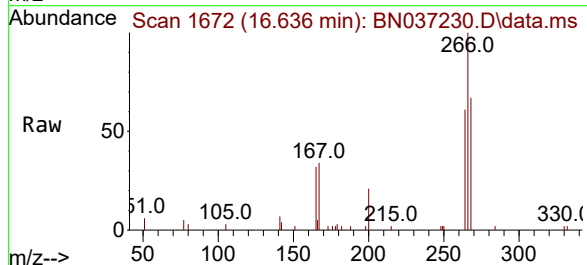
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

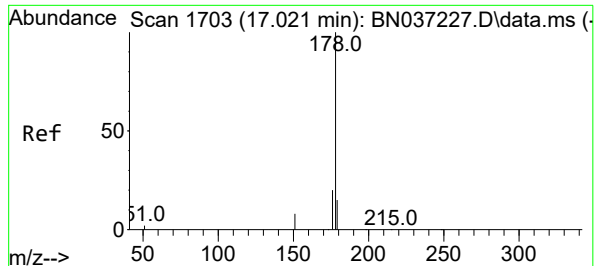
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	25.1	37.7
215	43.8	43.7	65.5



#24
Pentachlorophenol
Concen: 3.508 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.2	73.8
268	64.6	53.4	80.2

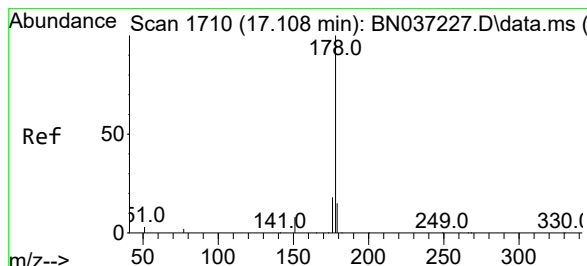
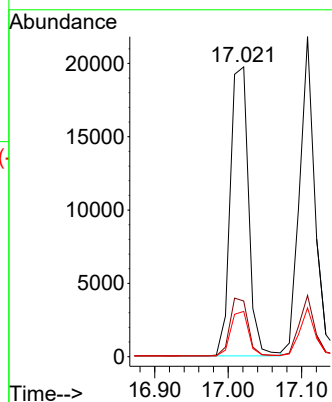
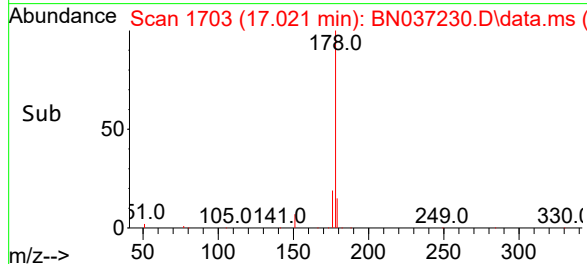
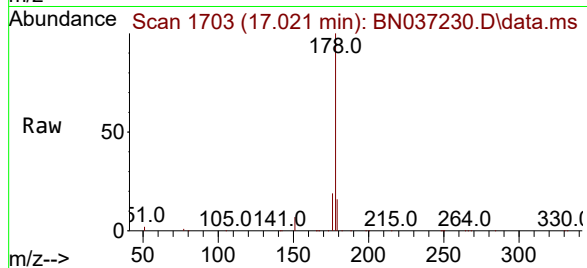




#25
Phenanthrene
Concen: 3.349 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

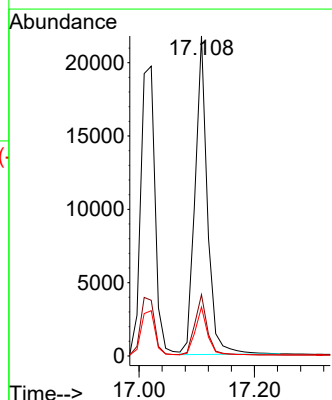
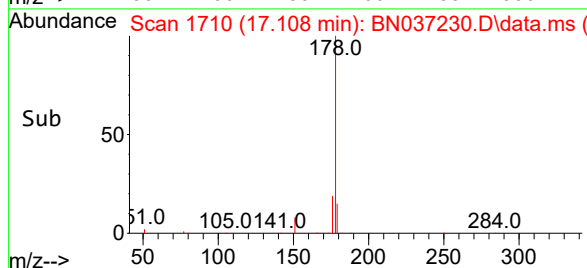
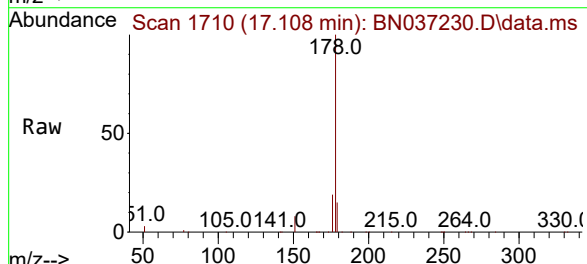
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

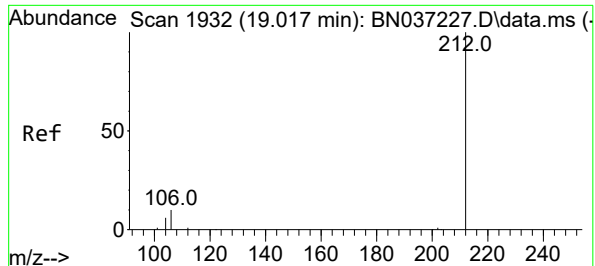
Tgt Ion:178 Resp: 34176
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.1 12.6 18.8



#26
Anthracene
Concen: 3.464 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:178 Resp: 32366
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.188 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

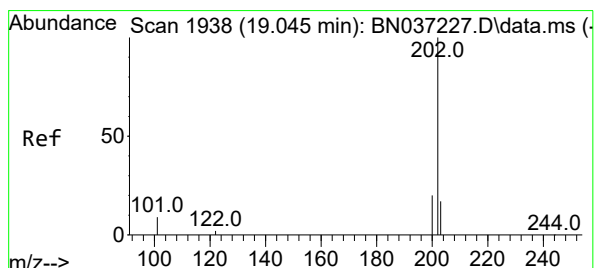
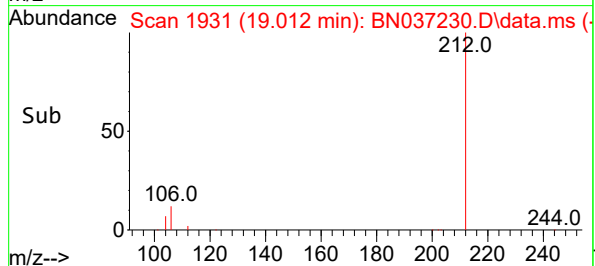
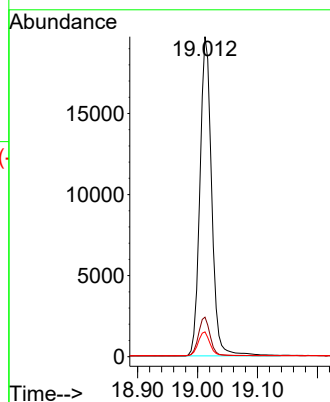
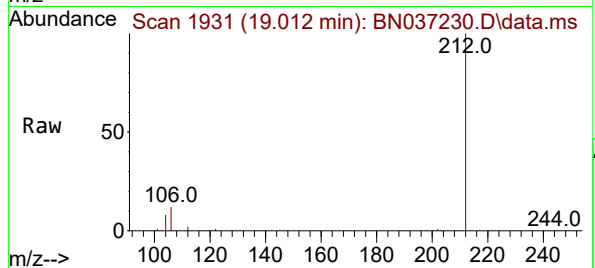
Tgt Ion:212 Resp: 26844

Ion Ratio Lower Upper

212 100

106 12.1 9.3 13.9

104 7.6 5.7 8.5



#28

Fluoranthene

Concen: 3.254 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

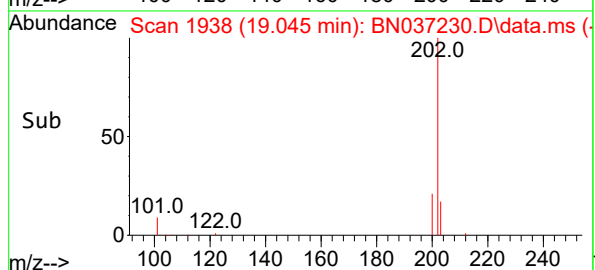
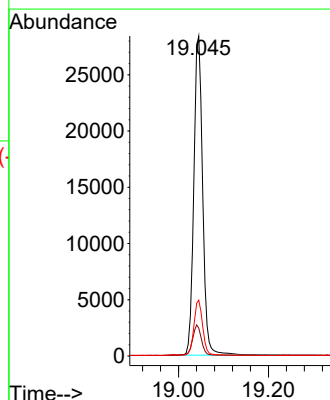
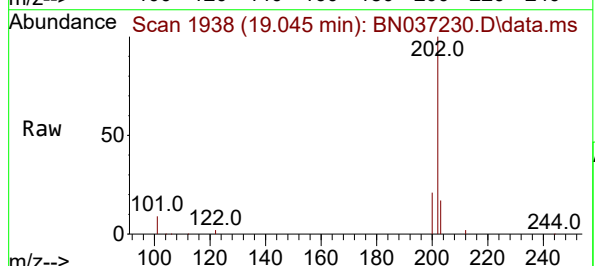
Tgt Ion:202 Resp: 38876

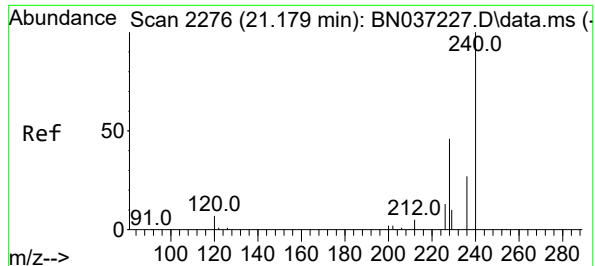
Ion Ratio Lower Upper

202 100

101 9.7 7.1 10.7

203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

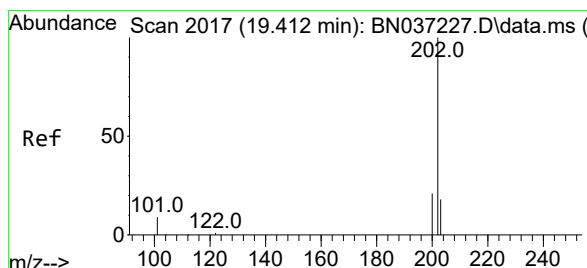
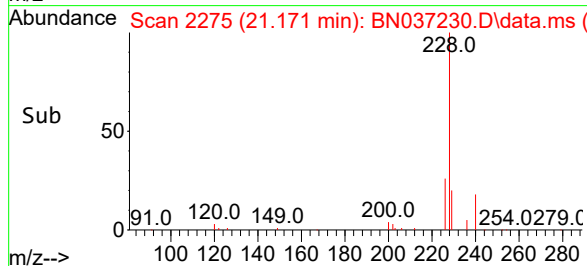
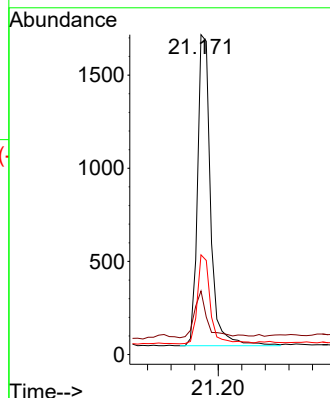
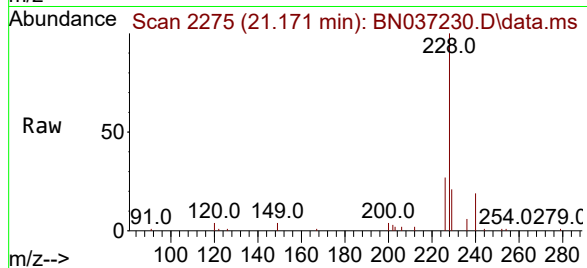
Tgt Ion:240 Resp: 2562

Ion Ratio Lower Upper

240 100

120 19.9 11.3 16.9#

236 31.2 24.4 36.6



#30

Pyrene

Concen: 3.219 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

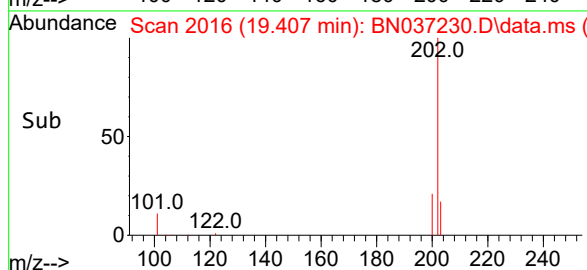
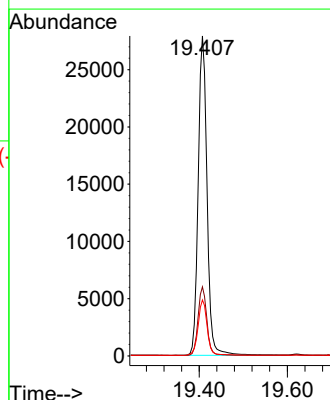
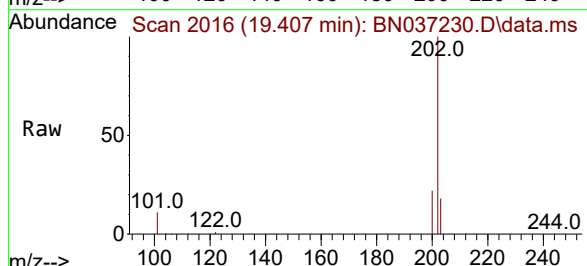
Tgt Ion:202 Resp: 38772

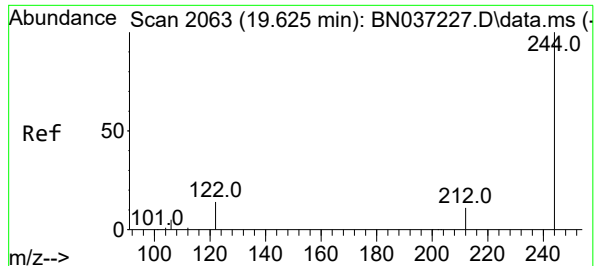
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

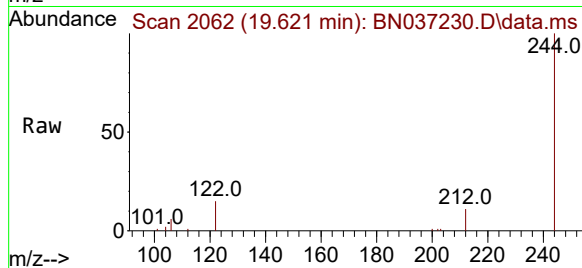
203 17.7 14.3 21.5



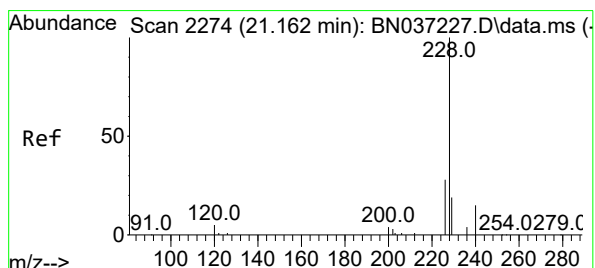
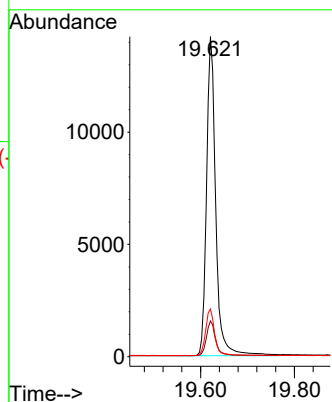
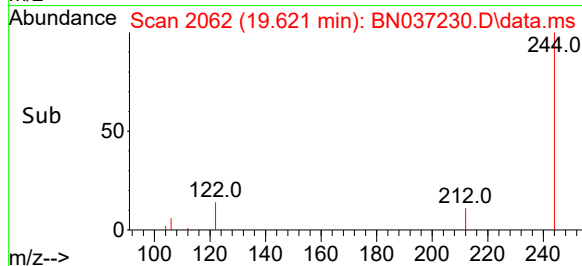


#31
Terphenyl-d14
Concen: 3.323 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

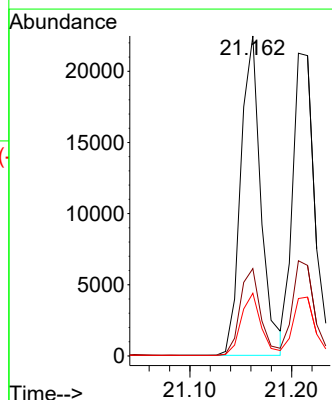
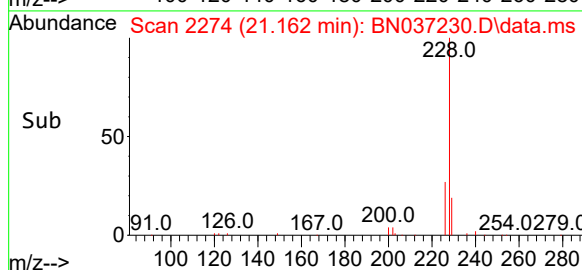
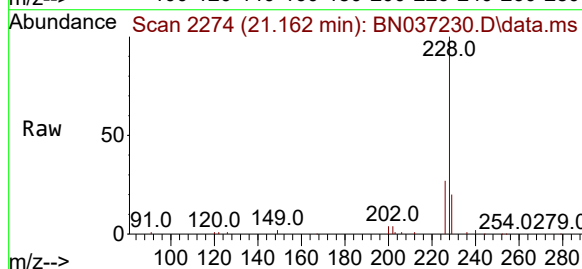


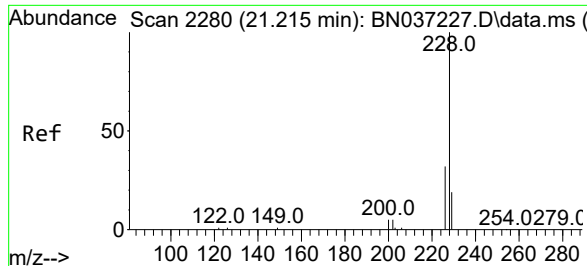
Tgt Ion:244 Resp: 19247
Ion Ratio Lower Upper
244 100
212 11.2 12.2 18.2#
122 14.9 14.3 21.5



#32
Benzo(a)anthracene
Concen: 3.571 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:228 Resp: 30893
Ion Ratio Lower Upper
228 100
226 27.3 23.8 35.8
229 19.6 17.0 25.4





#33

Chrysene

Concen: 3.106 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

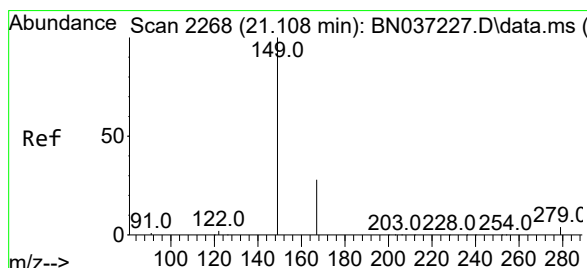
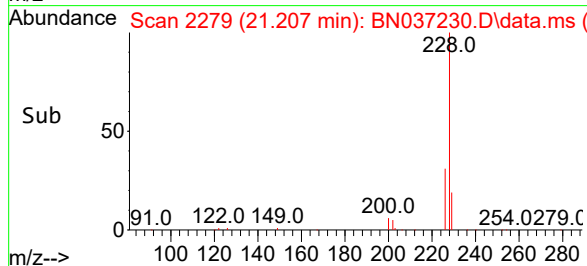
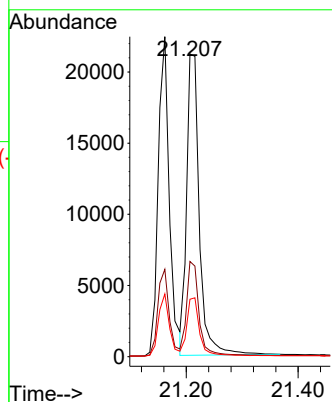
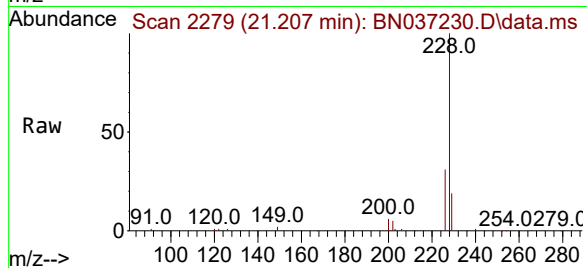
Tgt Ion:228 Resp: 33474

Ion Ratio Lower Upper

228 100

226 31.4 25.8 38.6

229 19.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.996 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

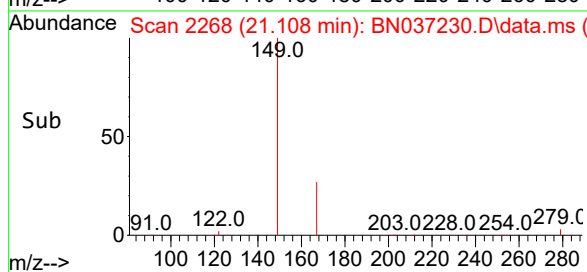
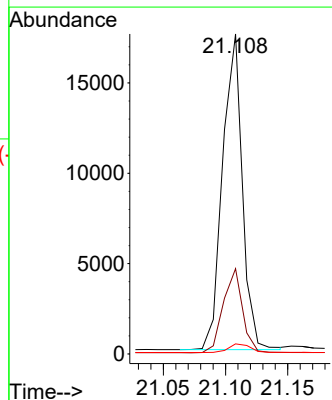
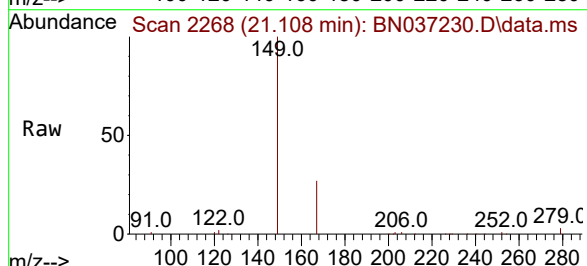
Tgt Ion:149 Resp: 19300

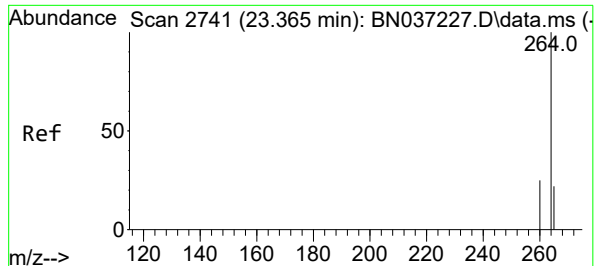
Ion Ratio Lower Upper

149 100

167 26.1 21.3 31.9

279 3.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037230.D

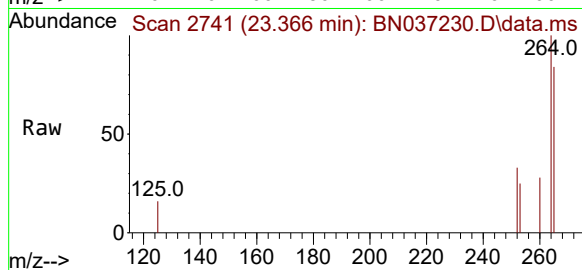
Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



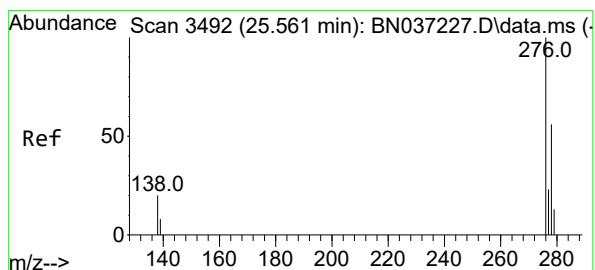
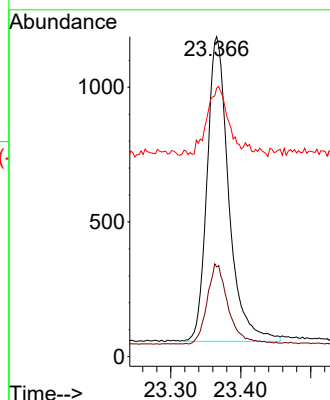
Tgt Ion:264 Resp: 2434

Ion Ratio Lower Upper

264 100

260 28.0 22.8 34.2

265 83.9 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.486 ng

RT: 25.556 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

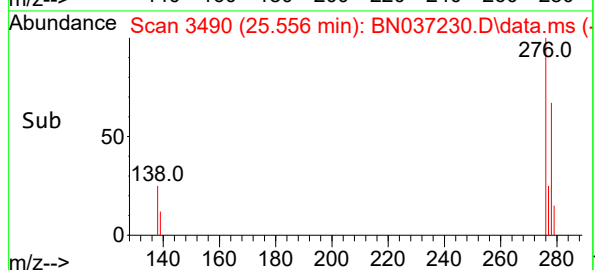
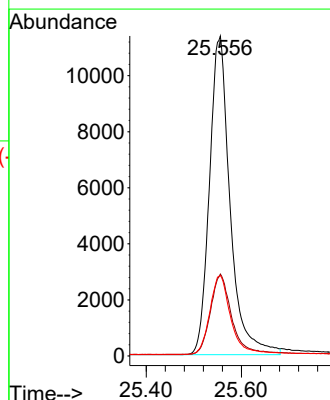
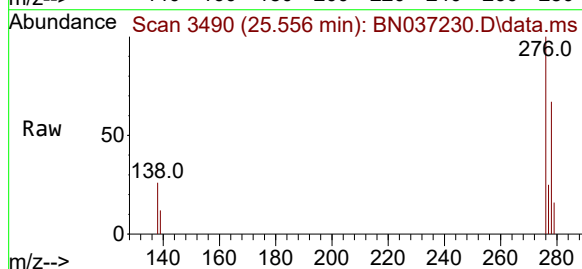
Tgt Ion:276 Resp: 34219

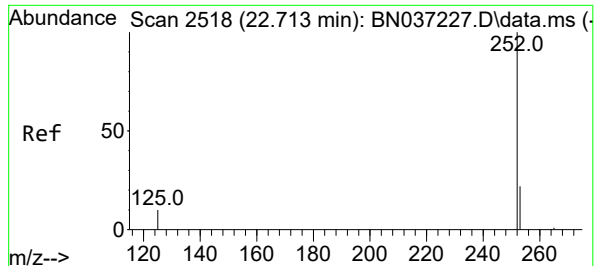
Ion Ratio Lower Upper

276 100

138 25.9 16.8 25.2#

277 25.3 19.5 29.3

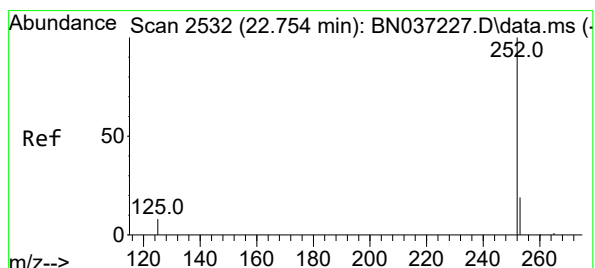
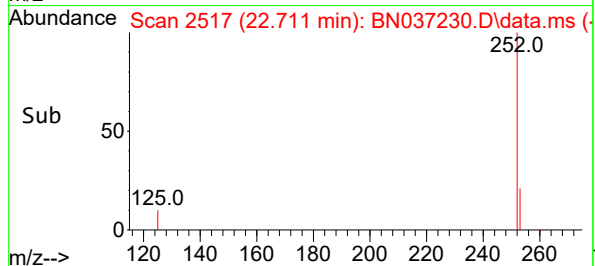
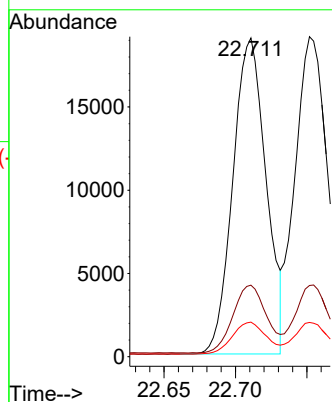
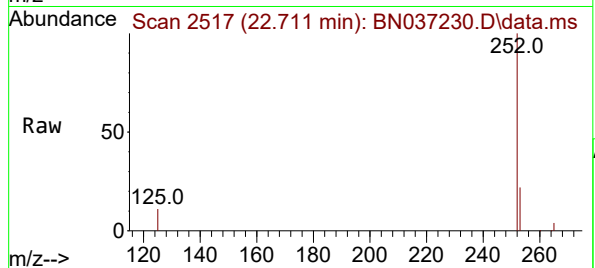




#37
Benzo(b)fluoranthene
Concen: 3.447 ng
RT: 22.711 min Scan# 2518
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

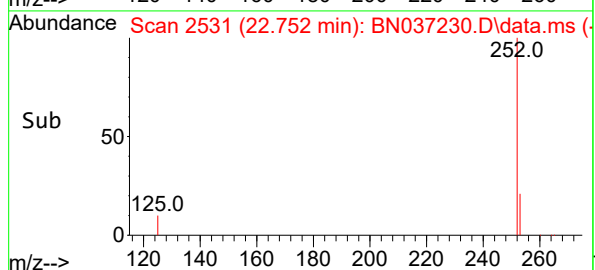
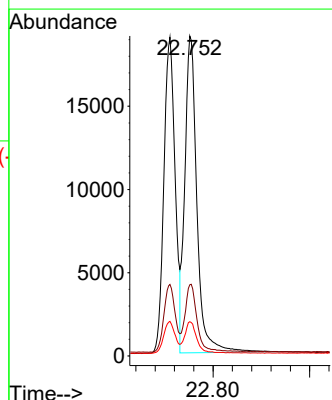
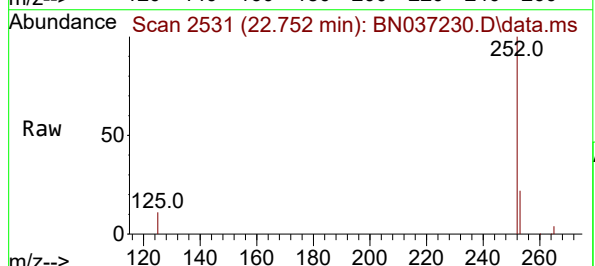
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

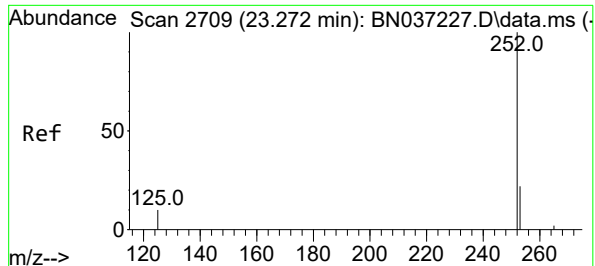
Tgt Ion:252 Resp: 30687
Ion Ratio Lower Upper
252 100
253 22.5 24.9 37.3#
125 10.8 12.9 19.3#



#38
Benzo(k)fluoranthene
Concen: 3.248 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:252 Resp: 33172
Ion Ratio Lower Upper
252 100
253 22.2 24.6 37.0#
125 10.7 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 3.361 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

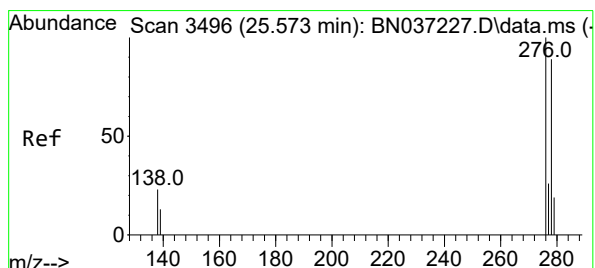
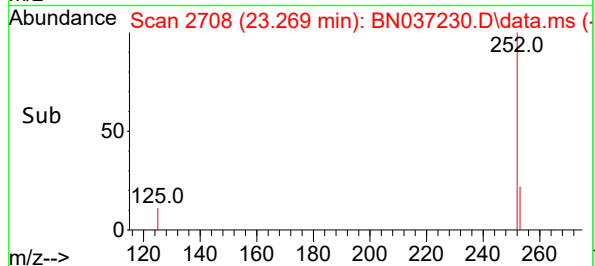
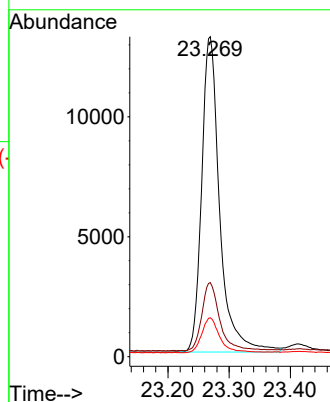
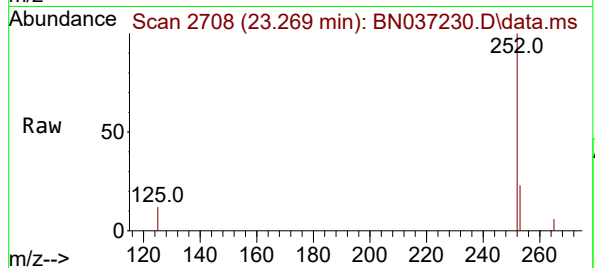
Tgt Ion:252 Resp: 26918

Ion Ratio Lower Upper

252 100

253 23.2 29.4 44.2#

125 12.2 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.751 ng

RT: 25.564 min Scan# 3493

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

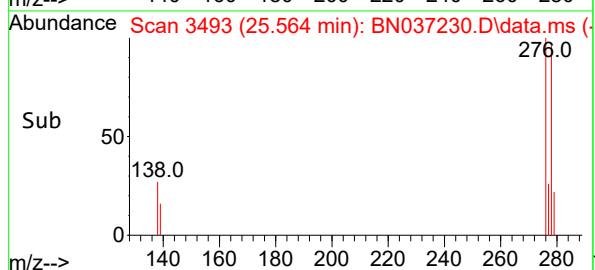
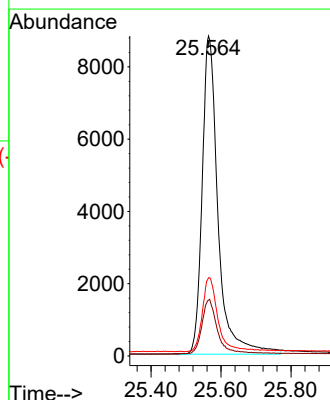
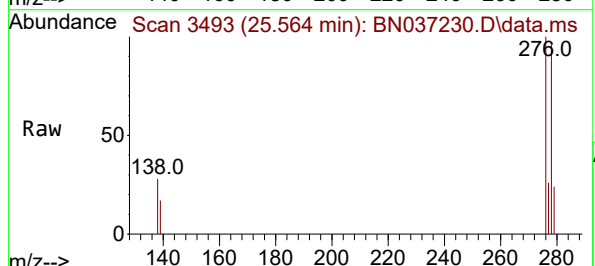
Tgt Ion:278 Resp: 27744

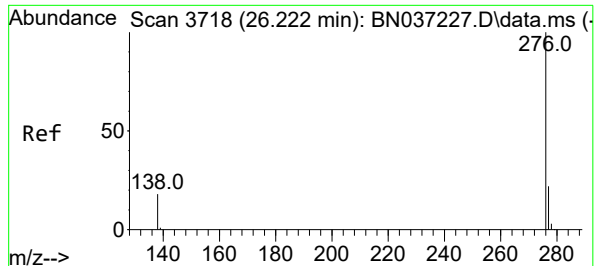
Ion Ratio Lower Upper

278 100

139 17.4 17.8 26.6#

279 24.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 3.350 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037230.D

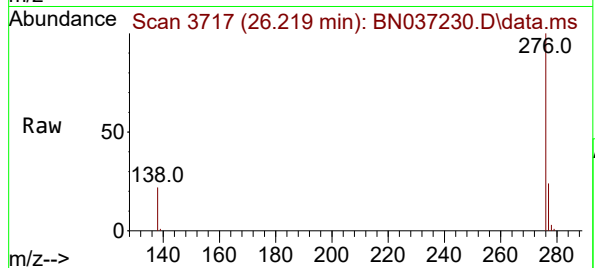
Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



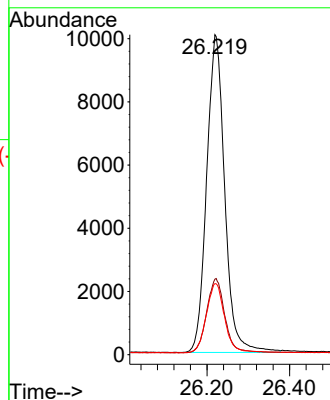
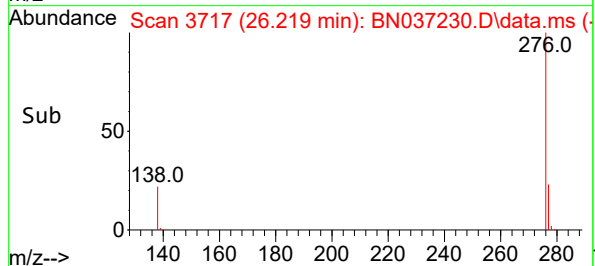
Tgt Ion:276 Resp: 30489

Ion Ratio Lower Upper

276 100

277 23.6 22.0 33.0

138 22.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037231.D
 Acq On : 13 Jun 2025 17:11
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

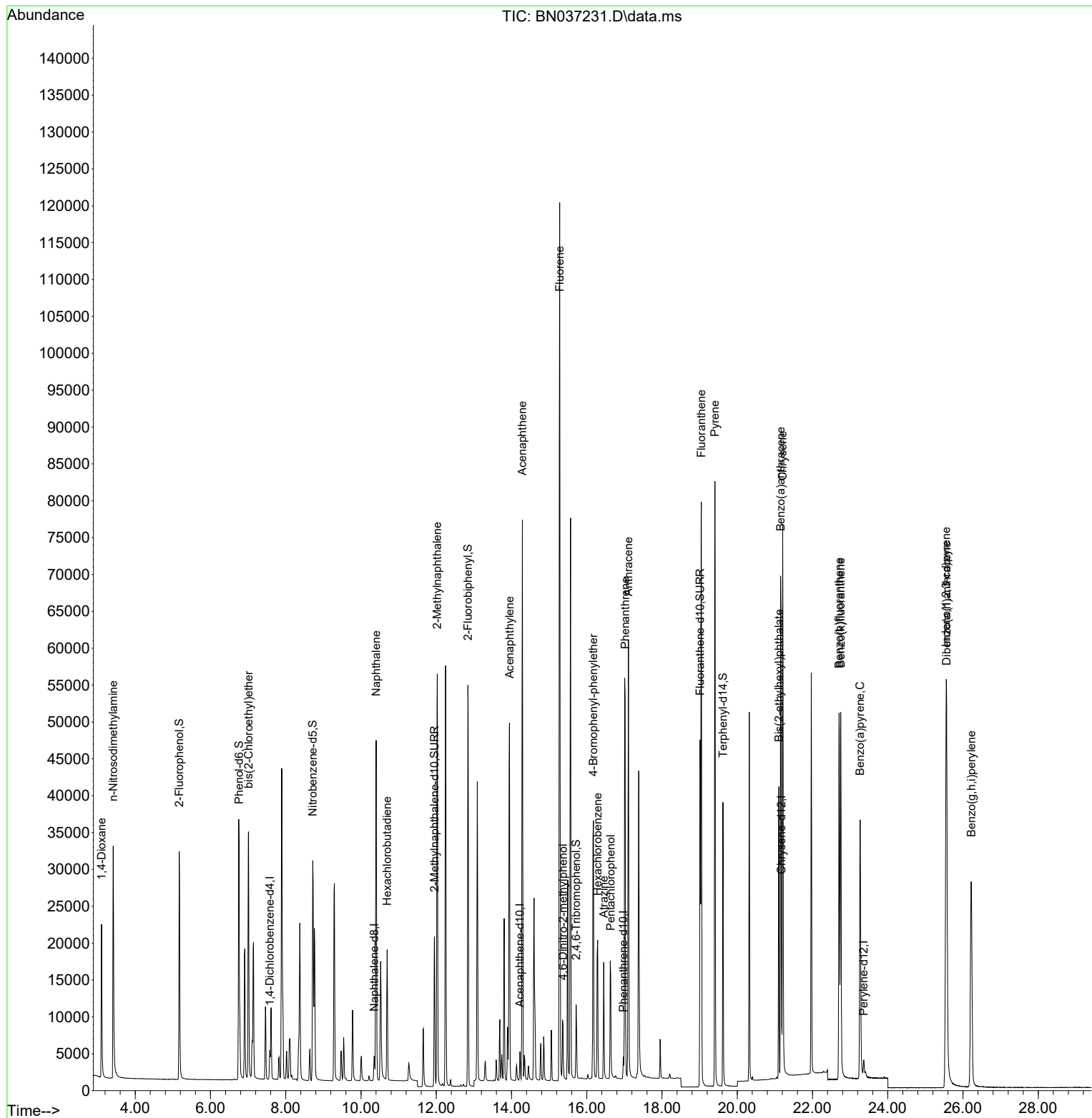
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1719	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3927	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2088	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3744	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3121	0.400	ng	0.00
35) Perylene-d12	23.360	264	2895	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	20890	4.948	ng	0.00
5) Phenol-d6	6.759	99	25211	5.666	ng	0.00
8) Nitrobenzene-d5	8.717	82	22243	5.731	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	27140	5.150	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	4635	5.344	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	44772	5.103	ng	0.00
27) Fluoranthene-d10	19.012	212	50205	5.125	ng	0.00
31) Terphenyl-d14	19.621	244	36062	5.111	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	10450	4.431	ng	92
3) n-Nitrosodimethylamine	3.415	42	24357	4.533	ng	94
6) bis(2-Chloroethyl)ether	7.012	93	22354	5.609	ng	94
9) Naphthalene	10.404	128	56880	5.002	ng	94
10) Hexachlorobutadiene	10.692	225	12686	4.586	ng	# 98
12) 2-Methylnaphthalene	12.026	142	36587	5.292	ng	98
16) Acenaphthylene	13.946	152	52739	5.154	ng	99
17) Acenaphthene	14.288	154	33323	5.045	ng	97
18) Fluorene	15.282	166	43051	5.075	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	5424	4.992	ng	# 36
21) 4-Bromophenyl-phenylether	16.177	248	12785	5.240	ng	# 81
22) Hexachlorobenzene	16.289	284	13054	4.616	ng	98
23) Atrazine	16.450	200	11399	5.239	ng	# 87
24) Pentachlorophenol	16.636	266	8014	5.782	ng	97
25) Phenanthrene	17.021	178	62123	5.232	ng	99
26) Anthracene	17.108	178	59009	5.429	ng	99
28) Fluoranthene	19.045	202	71952	5.177	ng	98
30) Pyrene	19.407	202	72342	4.930	ng	99
32) Benzo(a)anthracene	21.153	228	58498	5.551	ng	97
33) Chrysene	21.206	228	63057	4.803	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	37466	4.774	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.552	276	65610	5.620	ng	# 94
37) Benzo(b)fluoranthene	22.708	252	58631	5.536	ng	# 85
38) Benzo(k)fluoranthene	22.749	252	62537	5.148	ng	# 85
39) Benzo(a)pyrene	23.266	252	51138	5.368	ng	# 78
40) Dibenzo(a,h)anthracene	25.564	278	51648	5.871	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	56339	5.204	ng	96

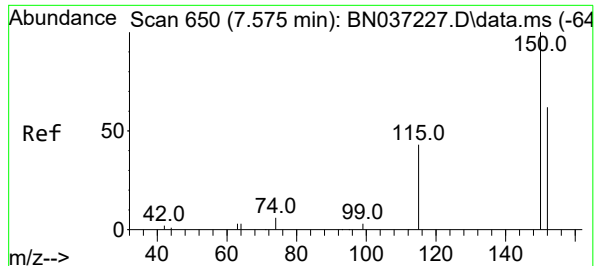
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037231.D
Acq On : 13 Jun 2025 17:11
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

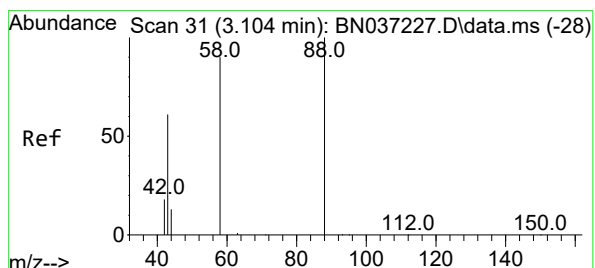
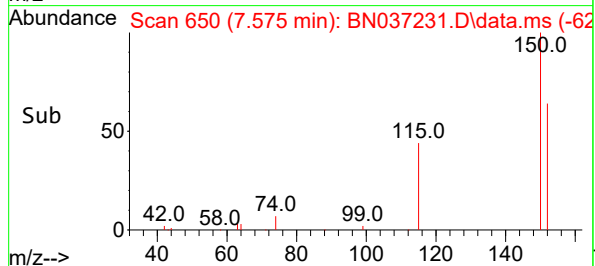
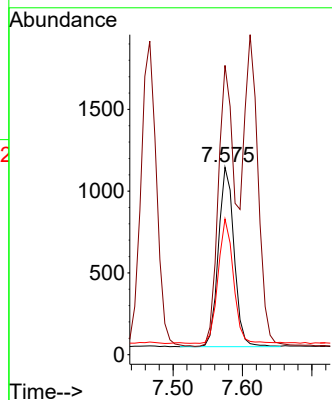
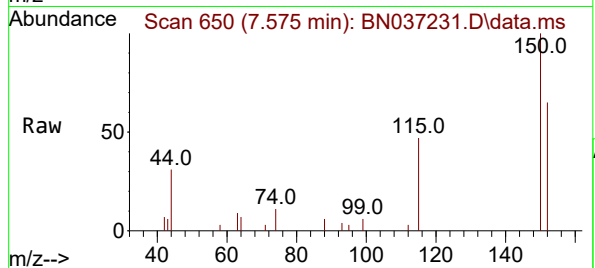




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

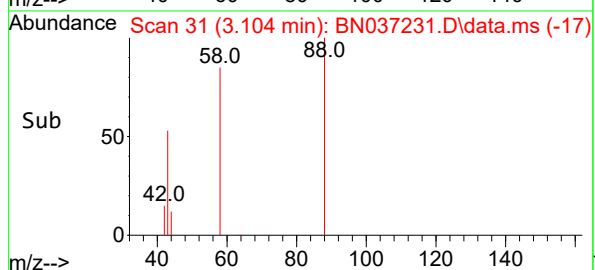
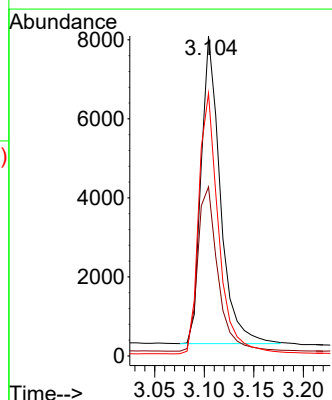
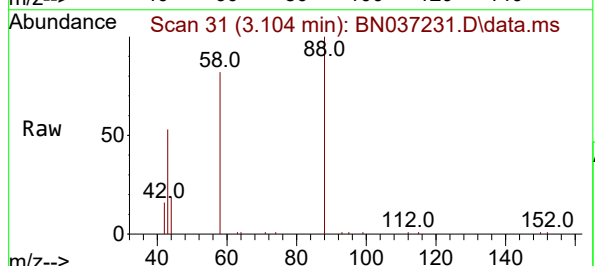
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 1719
Ion Ratio Lower Upper
152 100
150 154.4 125.2 187.8
115 72.4 58.4 87.6

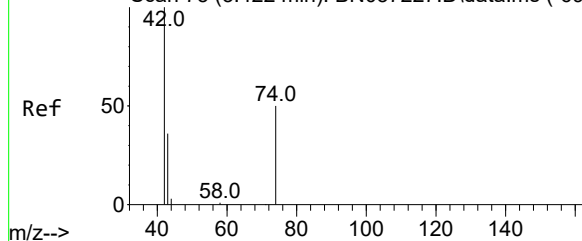


#2
1,4-Dioxane
Concen: 4.431 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

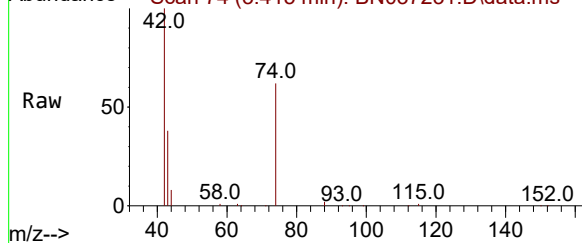
Tgt Ion: 88 Resp: 10450
Ion Ratio Lower Upper
88 100
43 56.4 52.6 79.0
58 87.7 73.5 110.3



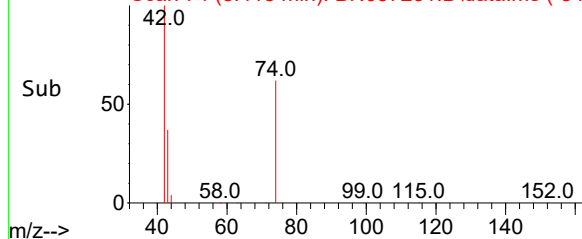
Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



Abundance Scan 74 (3.415 min): BN037231.D\data.ms



Abundance Scan 74 (3.415 min): BN037231.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 4.533 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

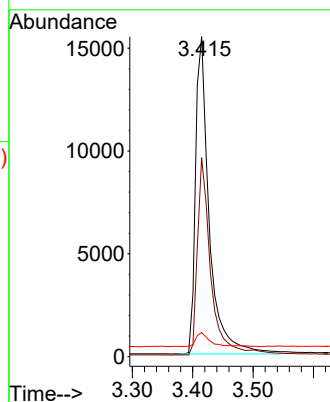
Tgt Ion: 42 Resp: 24357

Ion Ratio Lower Upper

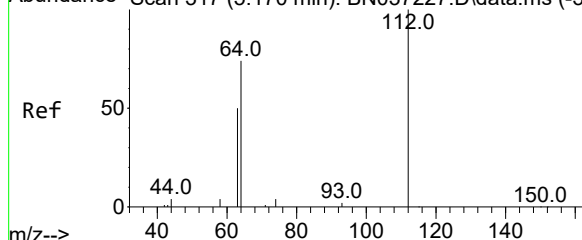
42 100

74 60.7 44.6 66.8

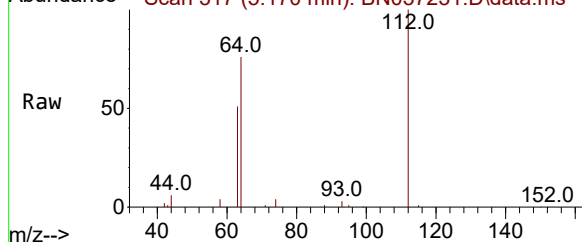
44 4.7 3.5 5.3



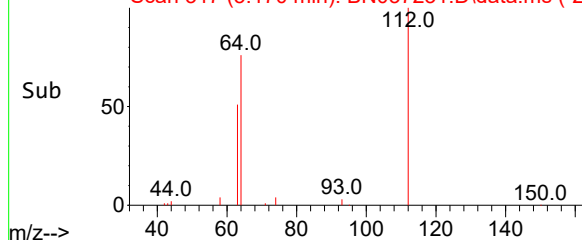
Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



Abundance Scan 317 (5.170 min): BN037231.D\data.ms



Abundance Scan 317 (5.170 min): BN037231.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 4.948 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

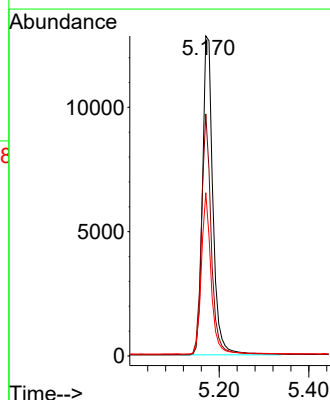
Tgt Ion: 112 Resp: 20890

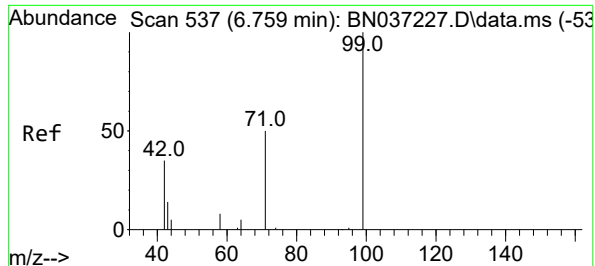
Ion Ratio Lower Upper

112 100

64 70.8 57.2 85.8

63 47.0 39.8 59.6

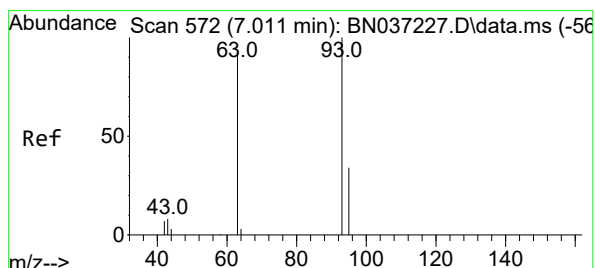
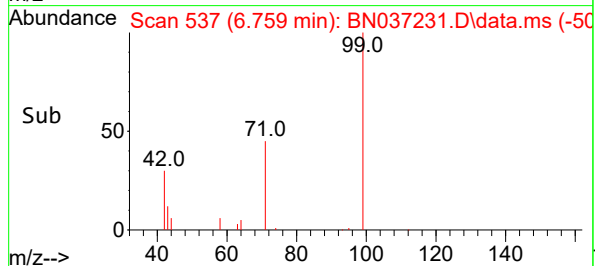
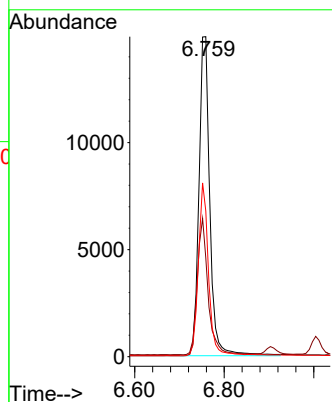
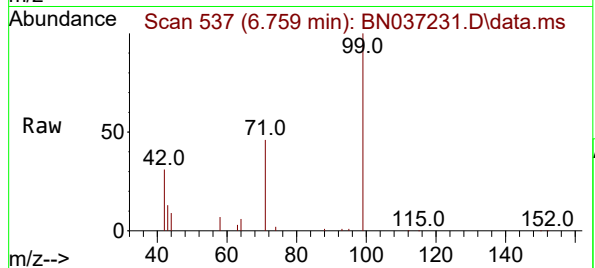




#5
Phenol-d6
Concen: 5.666 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

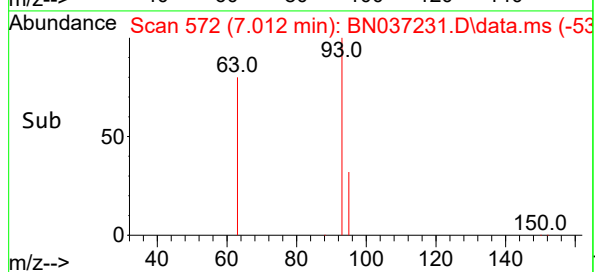
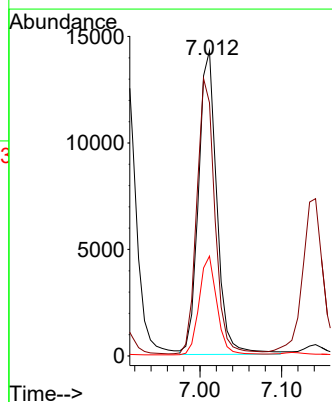
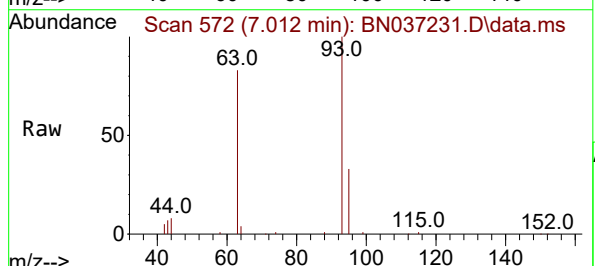
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

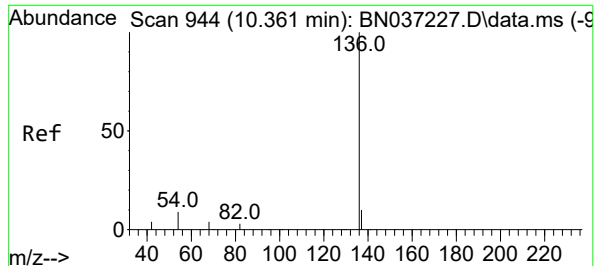
Tgt Ion: 99 Resp: 25211
Ion Ratio Lower Upper
99 100
42 42.3 36.2 54.4
71 50.9 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 5.609 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 93 Resp: 22354
Ion Ratio Lower Upper
93 100
63 88.9 75.2 112.8
95 31.6 28.3 42.5

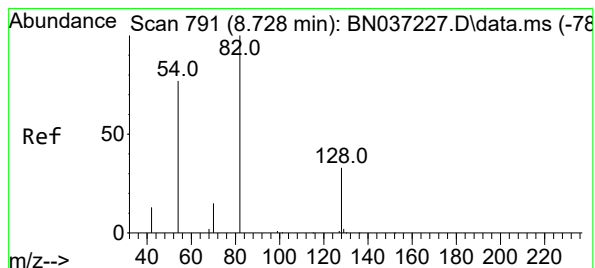
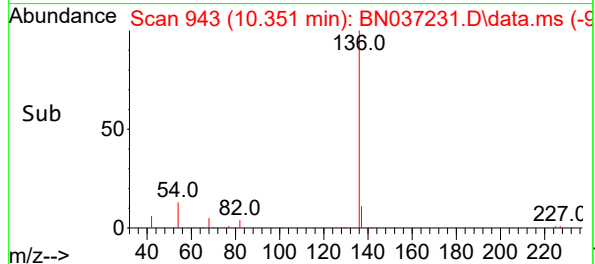
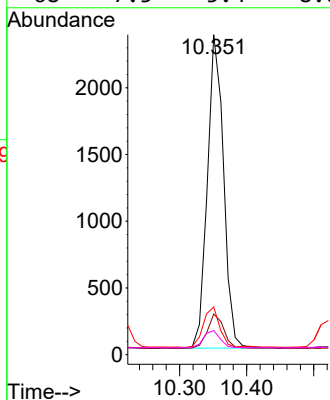
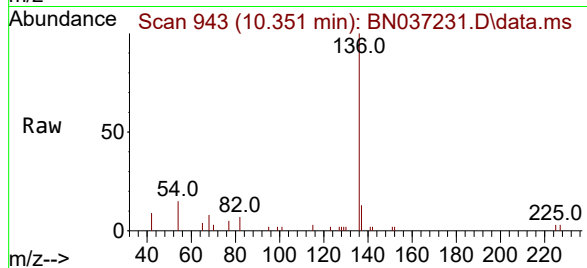




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

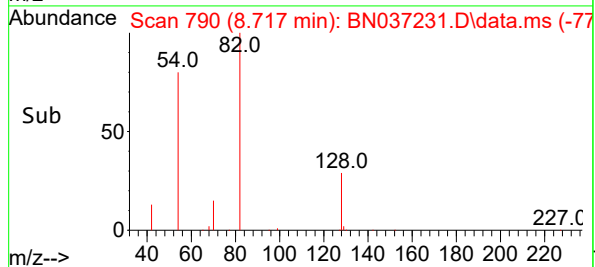
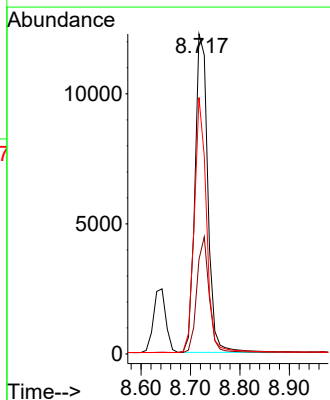
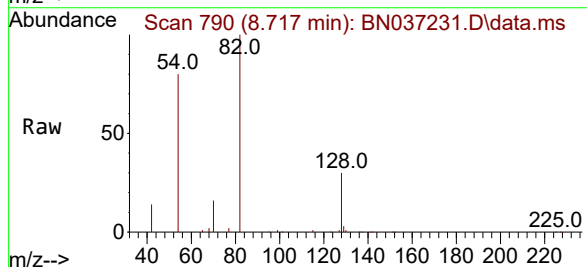
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

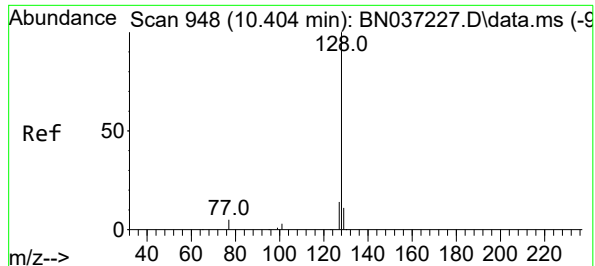
Tgt Ion:	136	Resp:	3927
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.6	15.8
54	14.9	9.2	13.8
68	7.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 5.731 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:	82	Resp:	22243
Ion	Ratio	Lower	Upper
82	100		
128	29.6	31.2	46.8
54	80.1	63.3	94.9

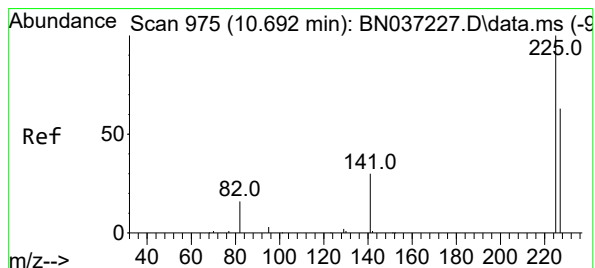
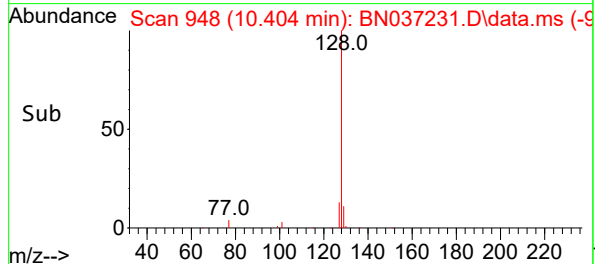
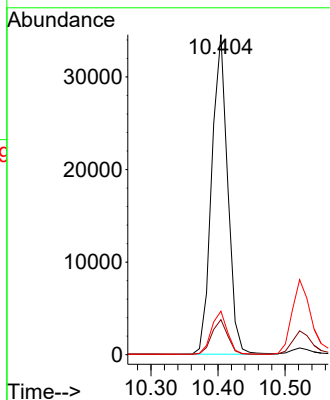
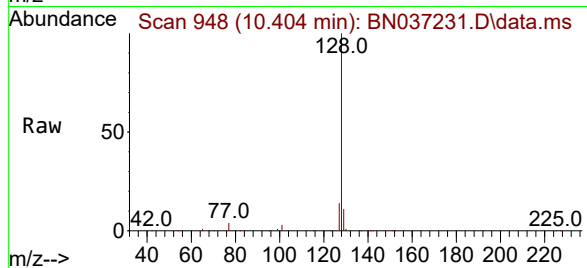




#9
Naphthalene
Concen: 5.002 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

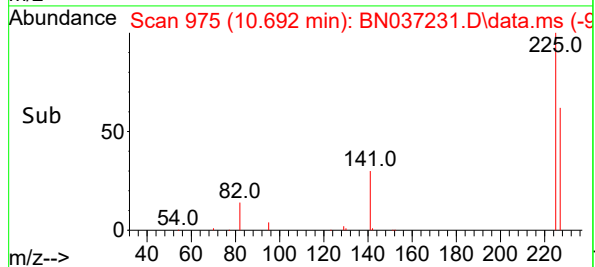
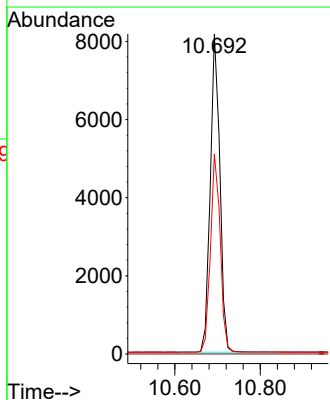
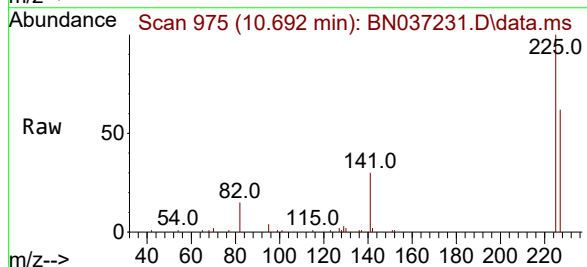
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

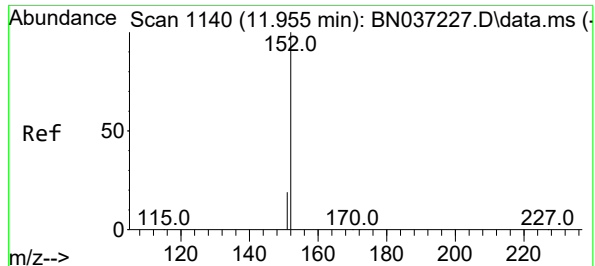
Tgt Ion	128	129	127
Resp:	56880		
Ion Ratio	100	10.9	13.6
Lower		10.7	12.6
Upper		16.1	19.0



#10
Hexachlorobutadiene
Concen: 4.586 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	225	223	227
Resp:	12686		
Ion Ratio	100	0.0	63.2
Lower		0.0	49.2
Upper		0.0	73.8

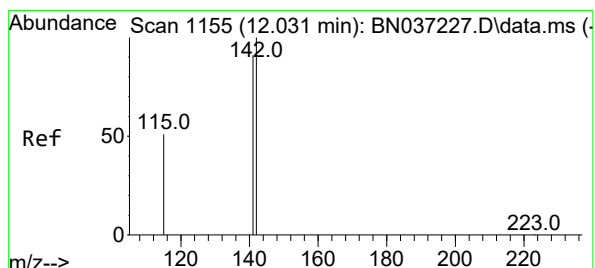
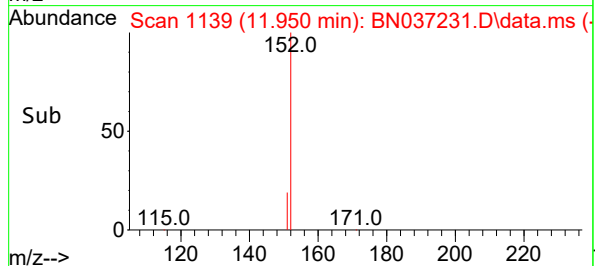
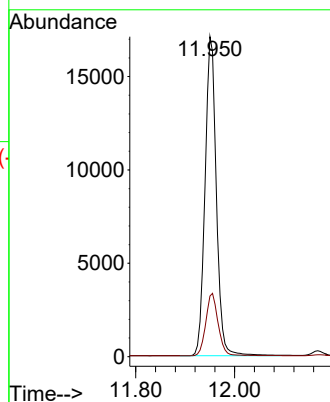
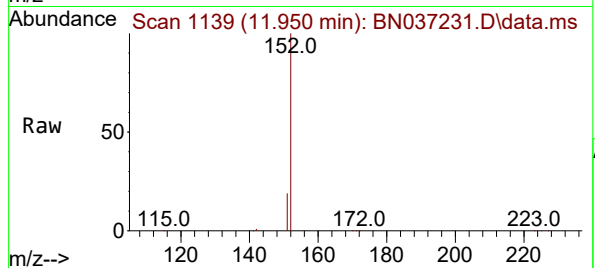




#11
2-Methylnaphthalene-d10
Concen: 5.150 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

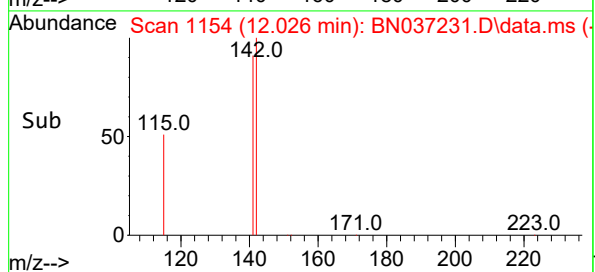
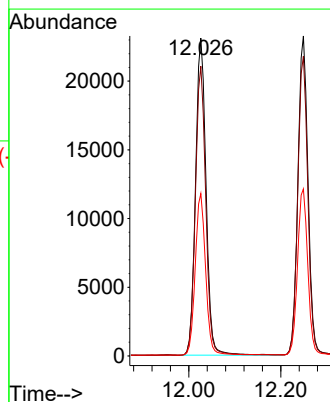
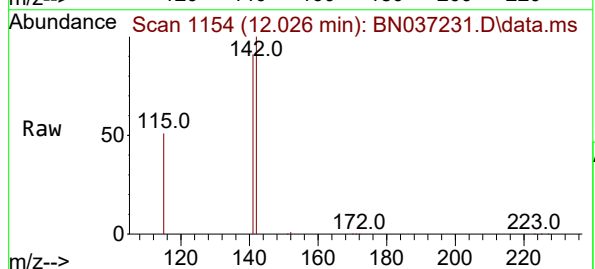
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

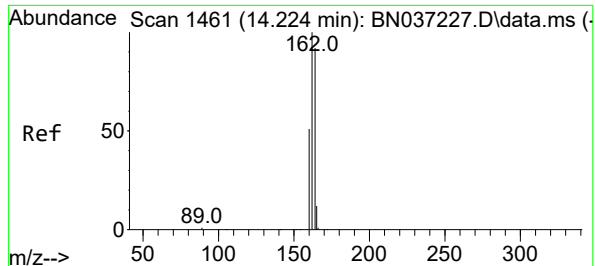
Tgt Ion:152 Resp: 27140
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 5.292 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:142 Resp: 36587
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.1 43.3 64.9

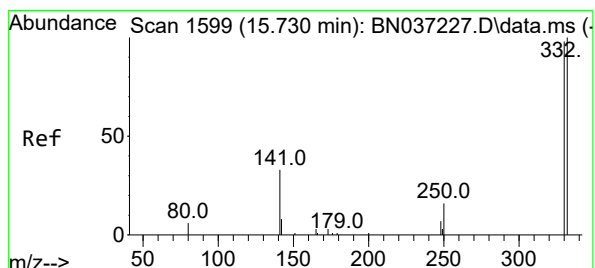
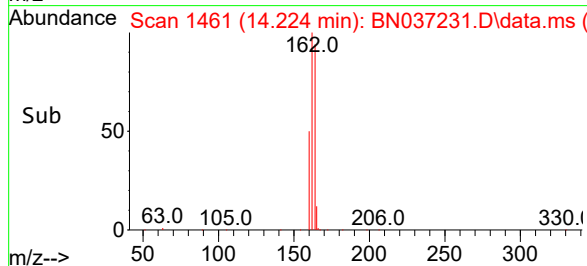
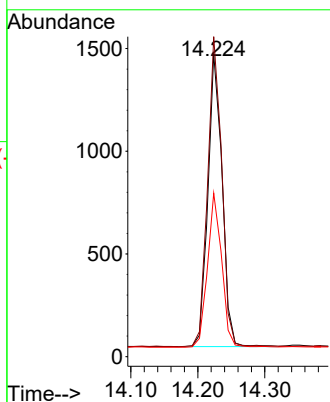
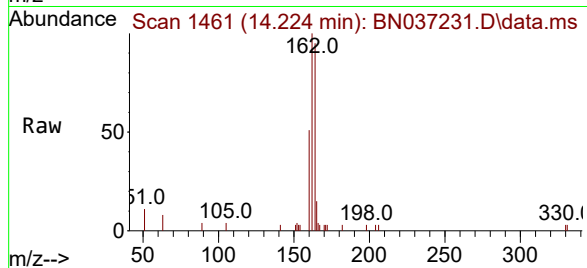




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

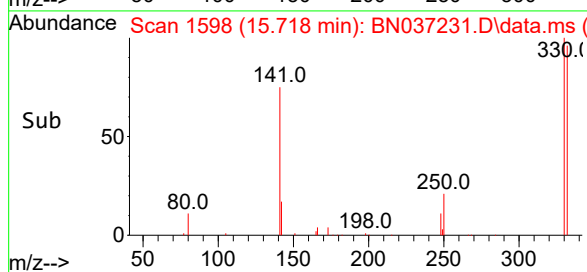
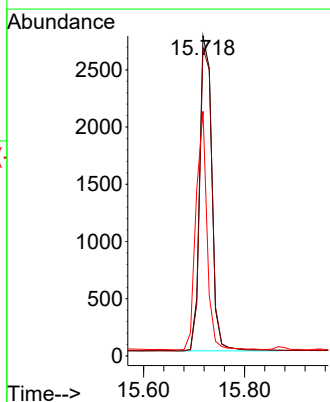
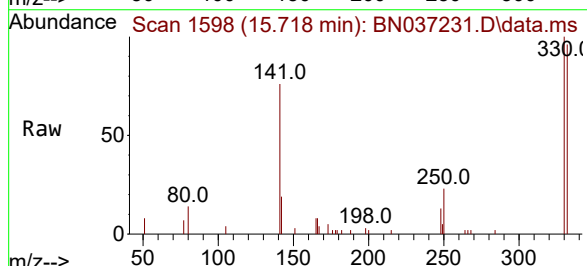
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

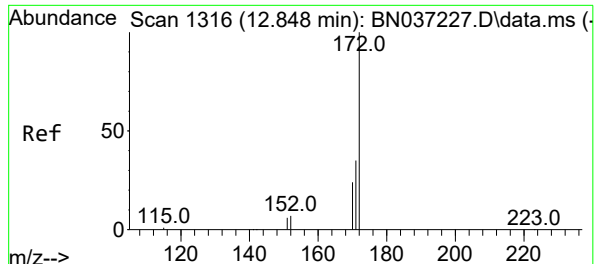
Tgt Ion:164 Resp: 2088
Ion Ratio Lower Upper
164 100
162 105.6 86.7 130.1
160 54.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 5.344 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:330 Resp: 4635
Ion Ratio Lower Upper
330 100
332 97.5 74.9 112.3
141 68.7 45.1 67.7#

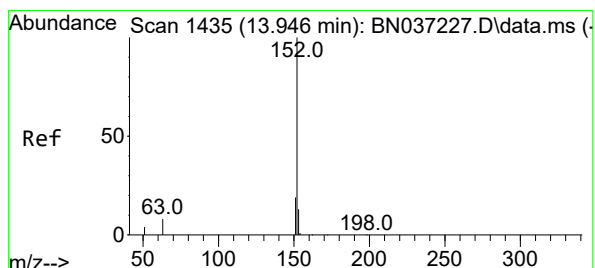
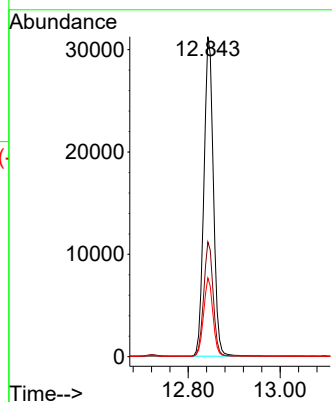
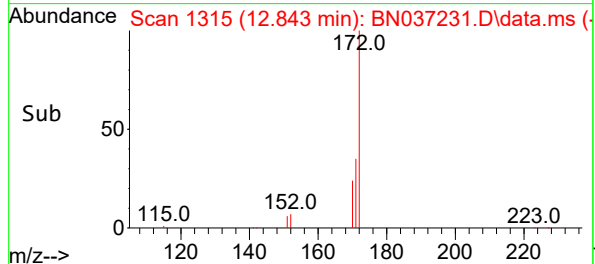
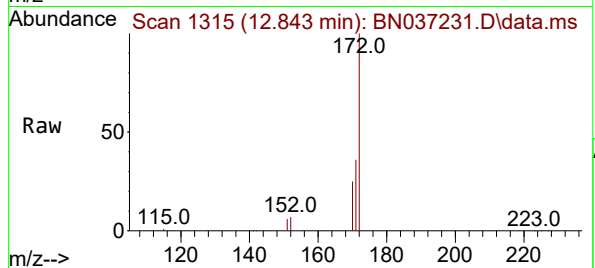




#15
2-Fluorobiphenyl
Concen: 5.103 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

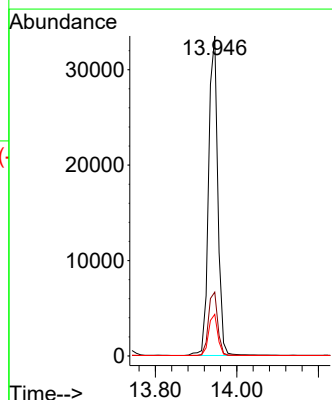
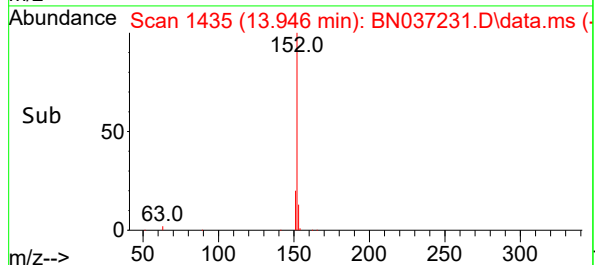
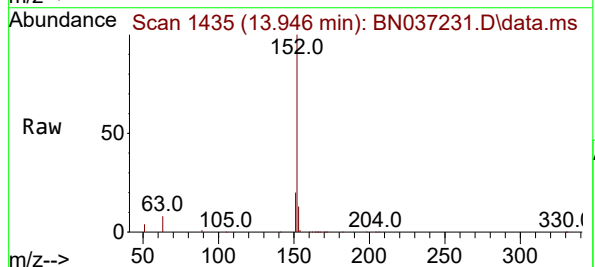
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

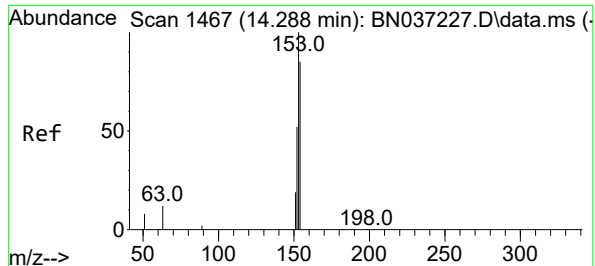
Tgt Ion:172 Resp: 44772
Ion Ratio Lower Upper
172 100
171 35.9 29.8 44.8
170 24.6 21.1 31.7



#16
Acenaphthylene
Concen: 5.154 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:152 Resp: 52739
Ion Ratio Lower Upper
152 100
151 20.1 15.7 23.5
153 12.9 10.7 16.1

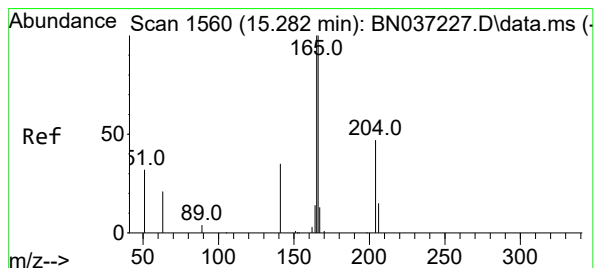
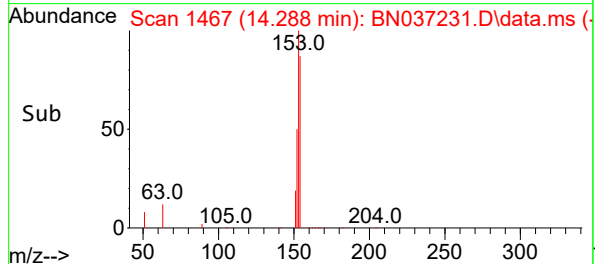
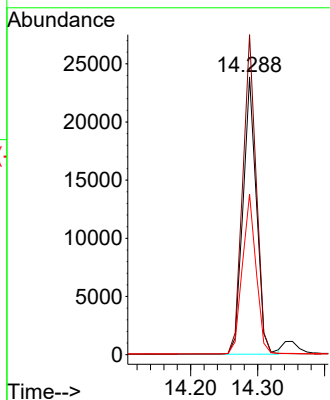
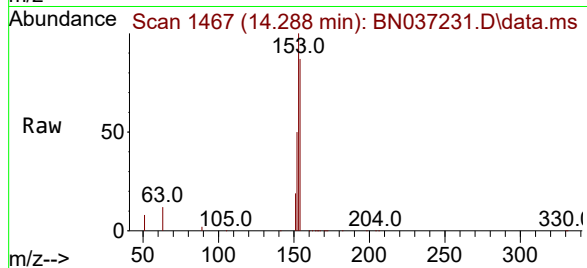




#17
Acenaphthene
Concen: 5.045 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

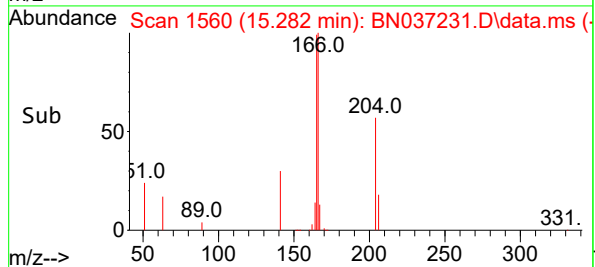
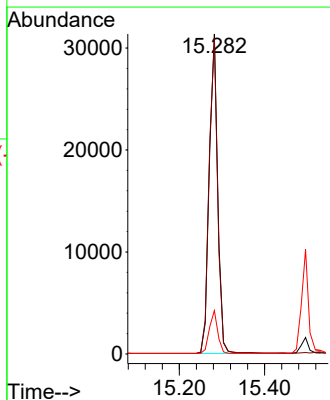
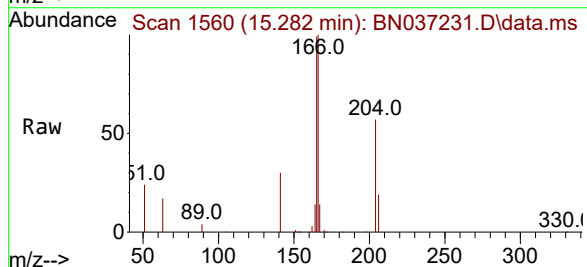
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

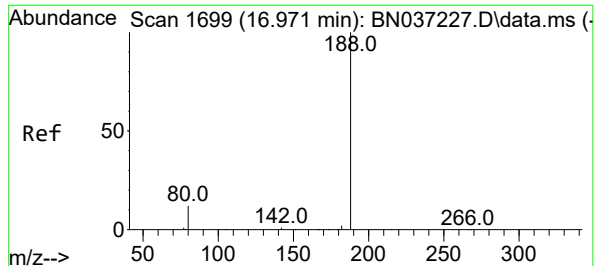
Tgt Ion:154 Resp: 33323
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 58.6 49.6 74.4



#18
Fluorene
Concen: 5.075 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:166 Resp: 43051
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.6
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

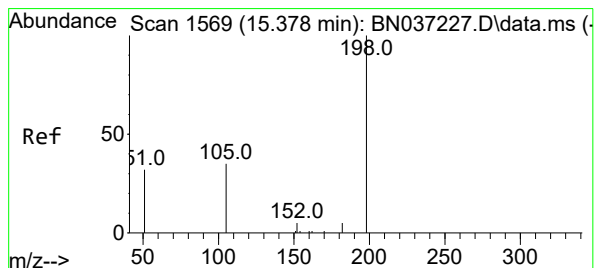
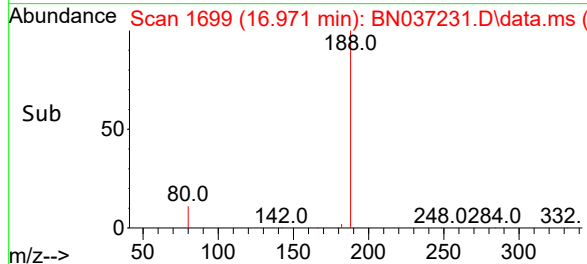
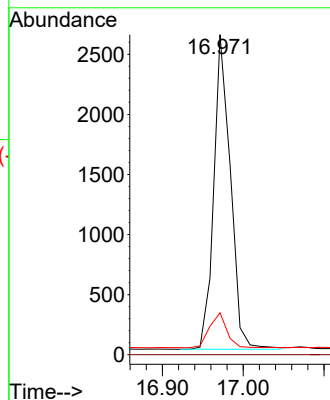
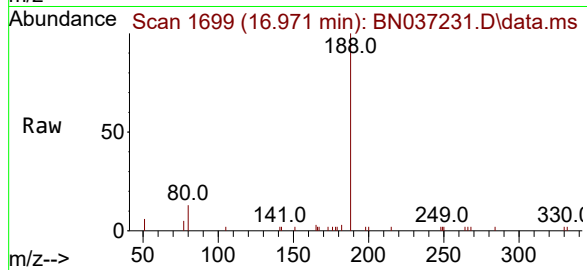
Tgt Ion:188 Resp: 3744

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.992 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

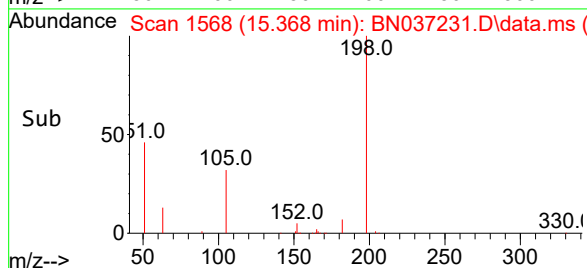
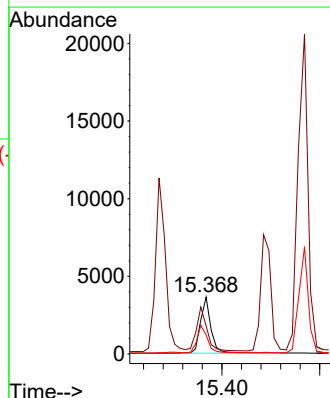
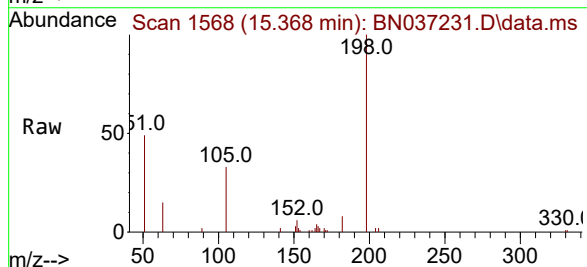
Tgt Ion:198 Resp: 5424

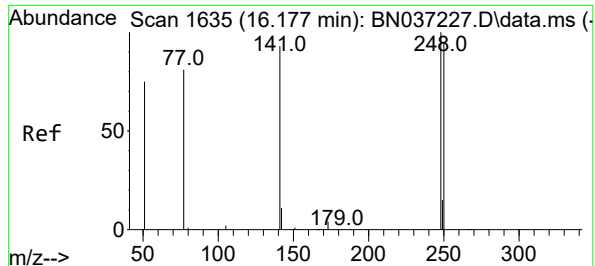
Ion Ratio Lower Upper

198 100

51 49.4 111.2 166.8#

105 33.2 54.0 81.0#

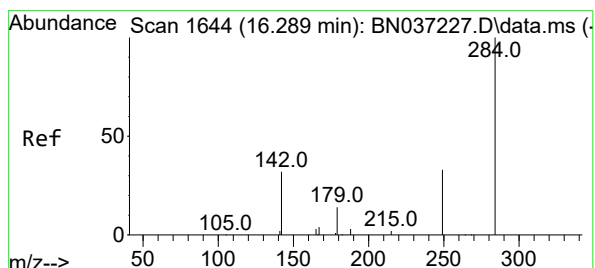
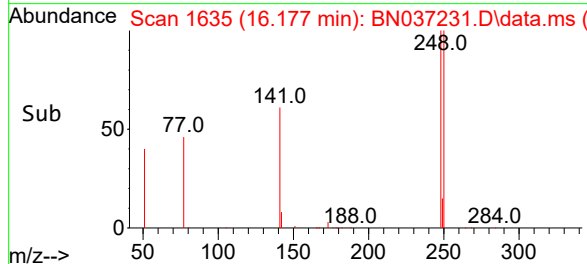
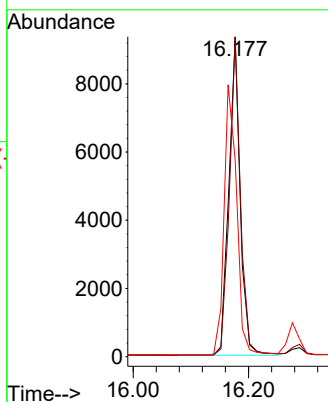
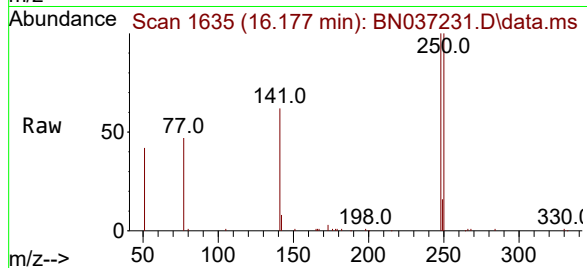




#21
4-Bromophenyl-phenylether
Concen: 5.240 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

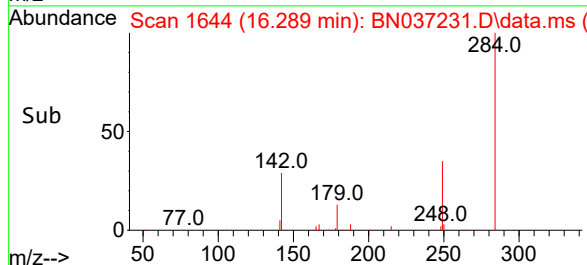
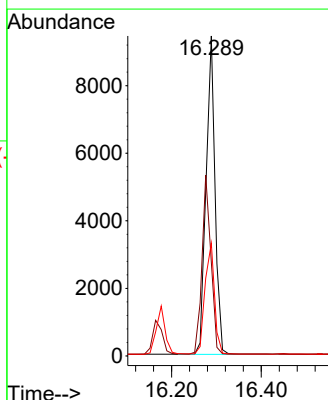
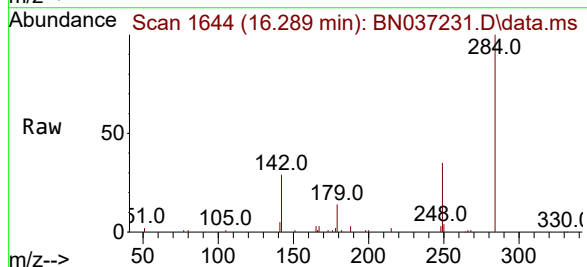
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

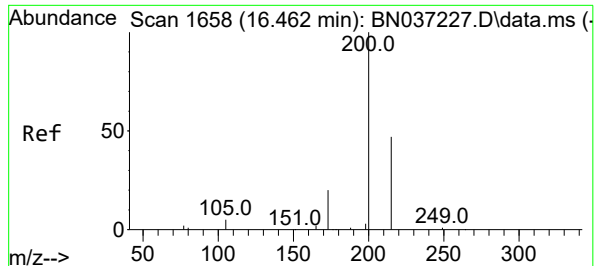
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	76.8	115.2
141	61.8	75.6	113.4#



#22
Hexachlorobenzene
Concen: 4.616 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.1	43.8	65.6
249	37.0	28.4	42.6

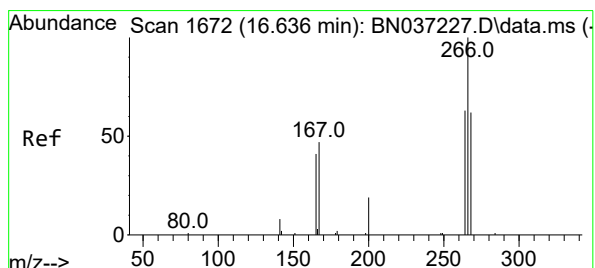
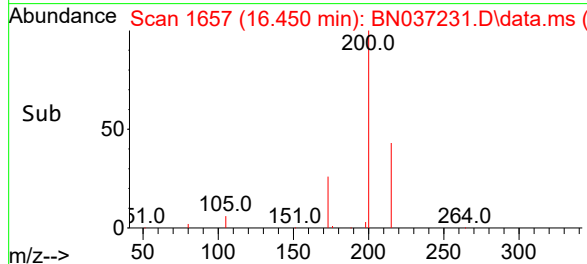
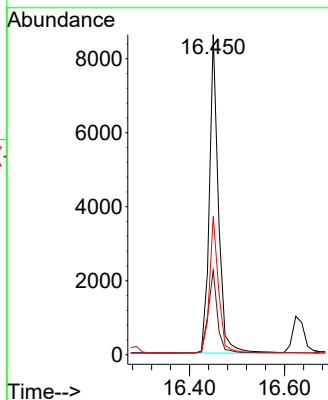
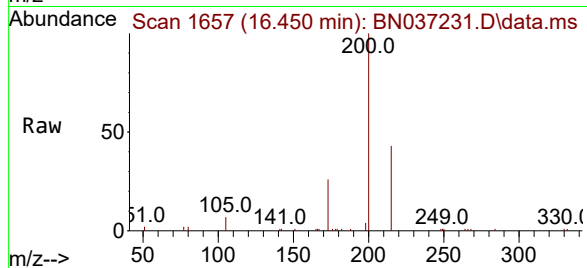




#23
Atrazine
Concen: 5.239 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

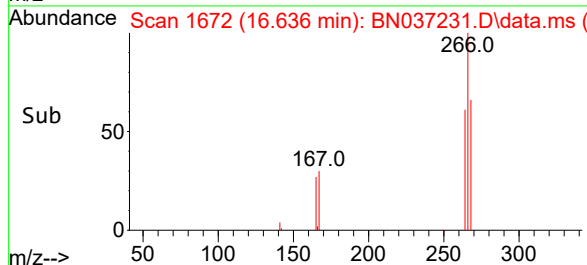
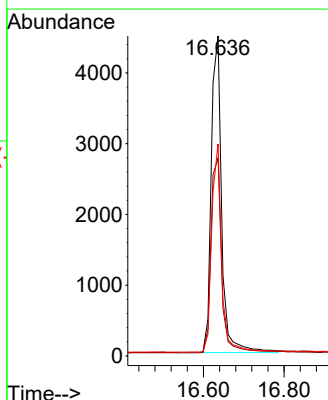
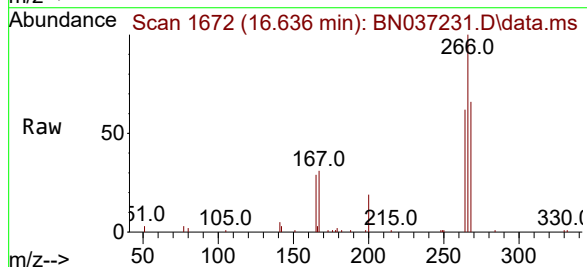
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

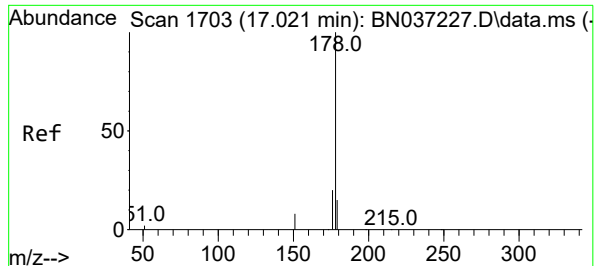
Tgt Ion:200 Resp: 11399
Ion Ratio Lower Upper
200 100
173 26.4 25.1 37.7
215 43.2 43.7 65.5#



#24
Pentachlorophenol
Concen: 5.782 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:266 Resp: 8014
Ion Ratio Lower Upper
266 100
264 63.1 49.2 73.8
268 63.1 53.4 80.2

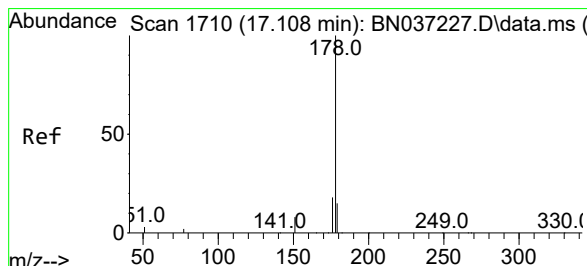
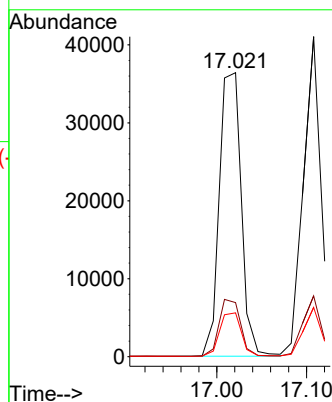
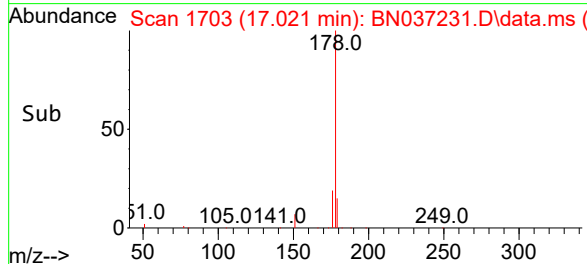
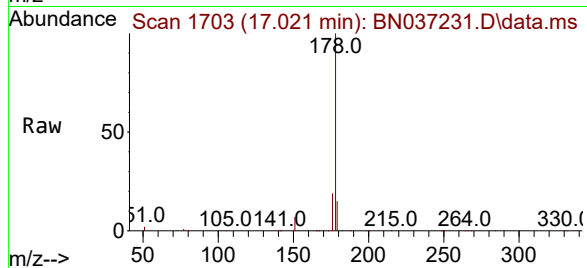




#25
Phenanthrene
Concen: 5.232 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

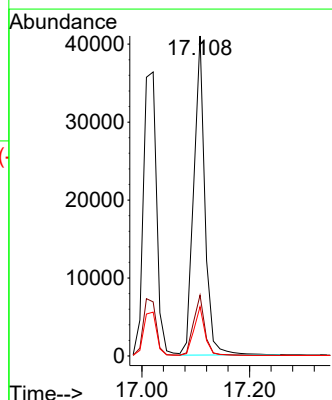
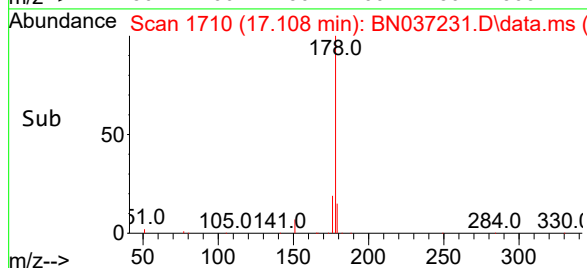
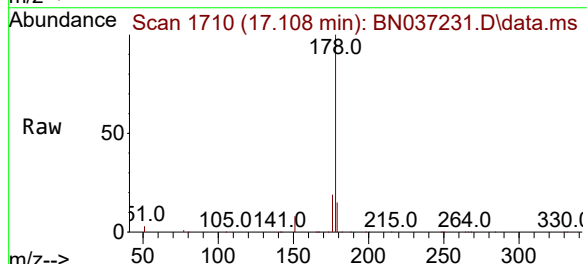
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

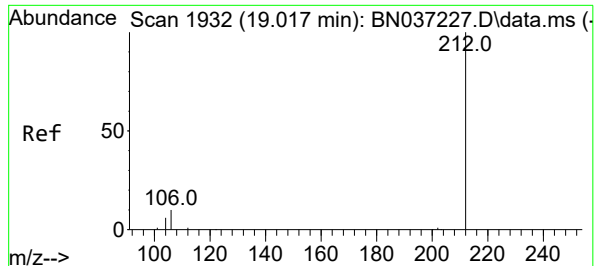
Tgt Ion:178 Resp: 62123
Ion Ratio Lower Upper
178 100
176 19.7 16.3 24.5
179 15.2 12.6 18.8



#26
Anthracene
Concen: 5.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:178 Resp: 59009
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.125 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

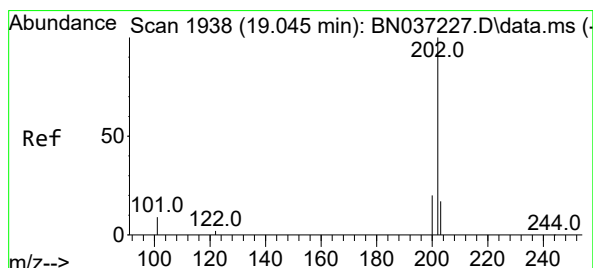
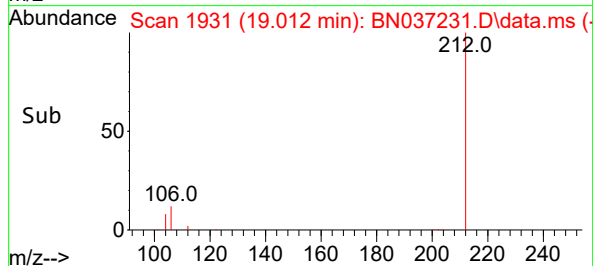
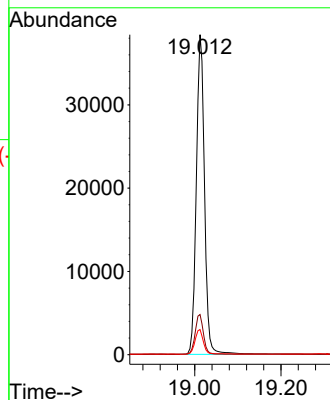
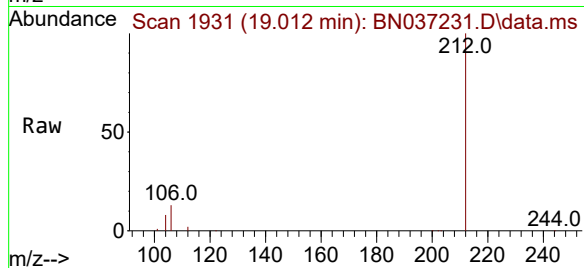
Tgt Ion:212 Resp: 50205

Ion Ratio Lower Upper

212 100

106 12.6 9.3 13.9

104 7.7 5.7 8.5



#28

Fluoranthene

Concen: 5.177 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

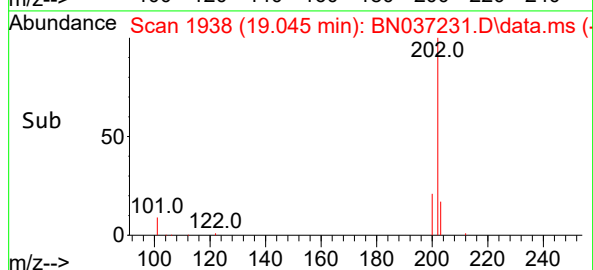
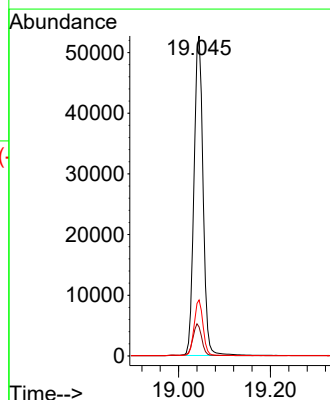
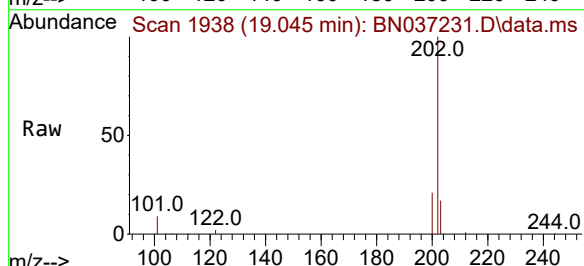
Tgt Ion:202 Resp: 71952

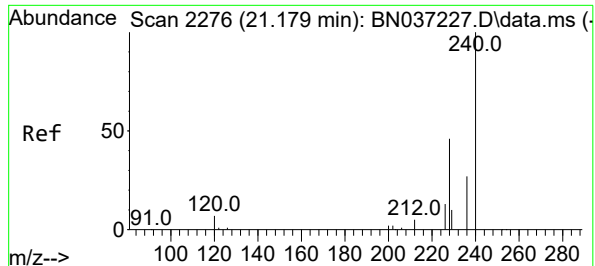
Ion Ratio Lower Upper

202 100

101 10.0 7.1 10.7

203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

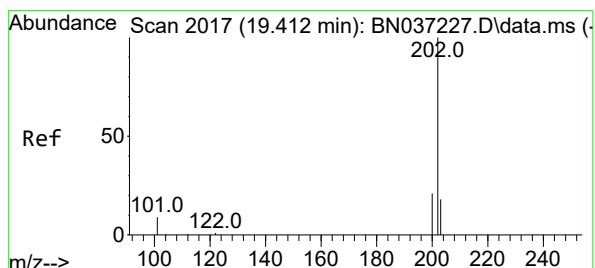
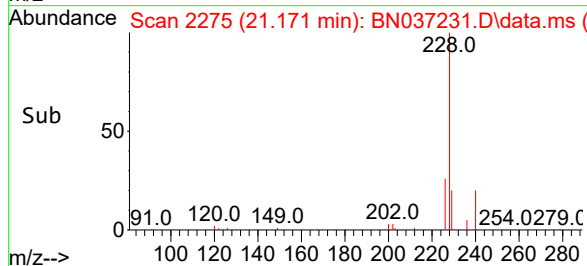
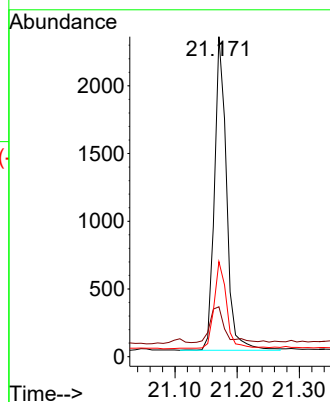
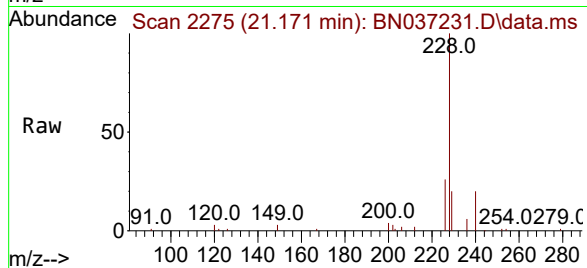
Tgt Ion:240 Resp: 3121

Ion Ratio Lower Upper

240 100

120 15.6 11.3 16.9

236 29.7 24.4 36.6



#30

Pyrene

Concen: 4.930 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

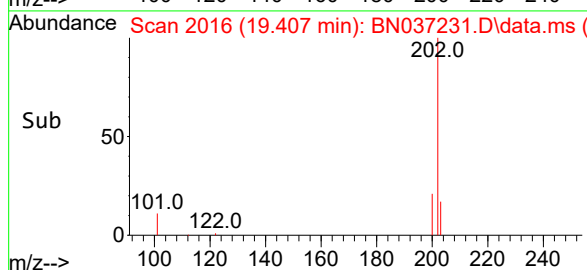
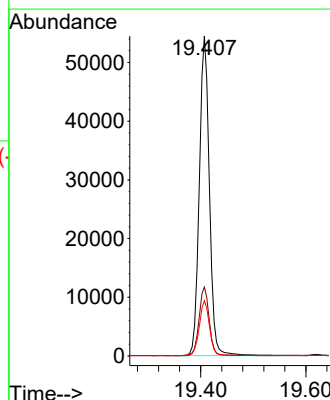
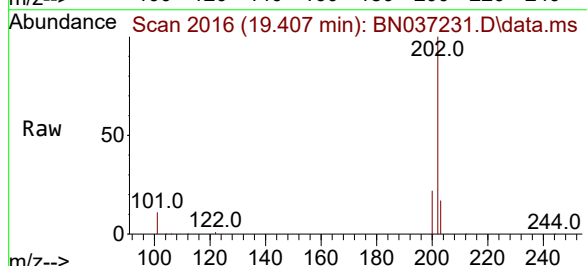
Tgt Ion:202 Resp: 72342

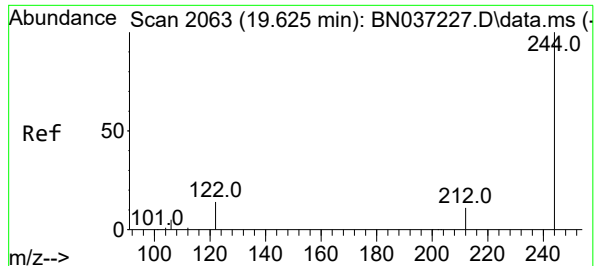
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.6 14.3 21.5

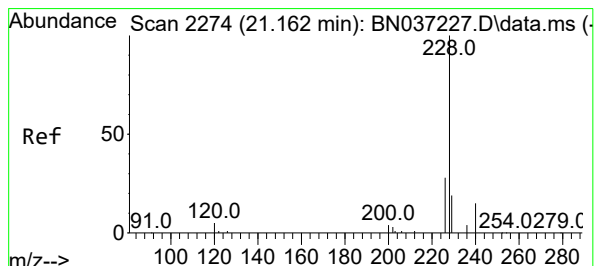
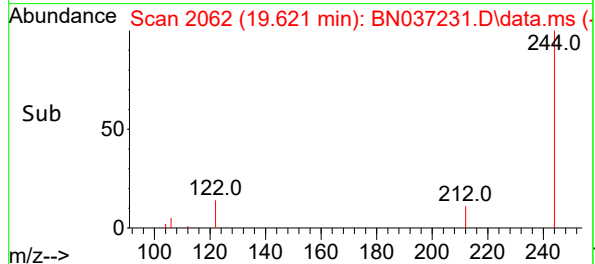
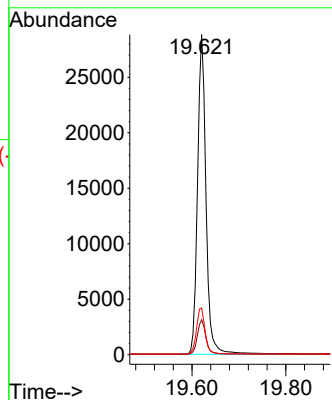
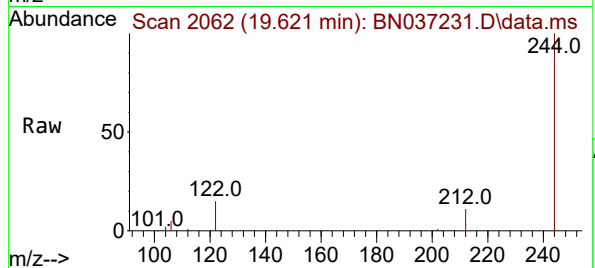




#31
Terphenyl-d14
Concen: 5.111 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

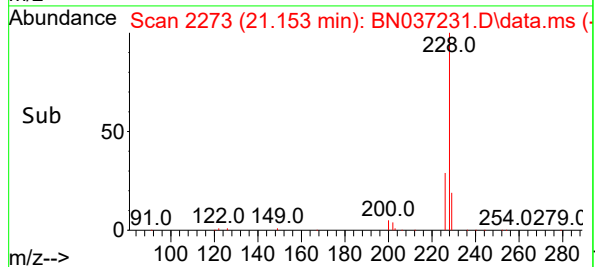
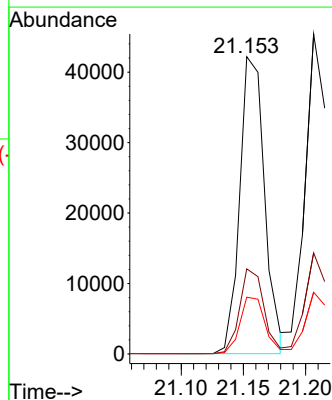
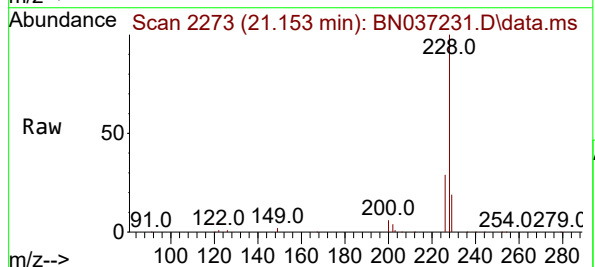
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

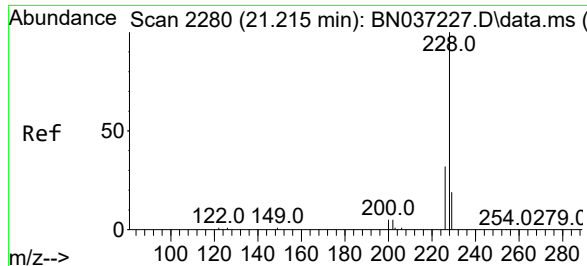
Tgt Ion:244 Resp: 36062
Ion Ratio Lower Upper
244 100
212 10.9 12.2 18.2#
122 14.6 14.3 21.5



#32
Benzo(a)anthracene
Concen: 5.551 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:228 Resp: 58498
Ion Ratio Lower Upper
228 100
226 28.6 23.8 35.8
229 19.1 17.0 25.4





#33

Chrysene

Concen: 4.803 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

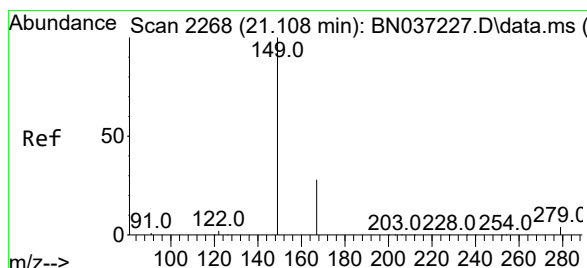
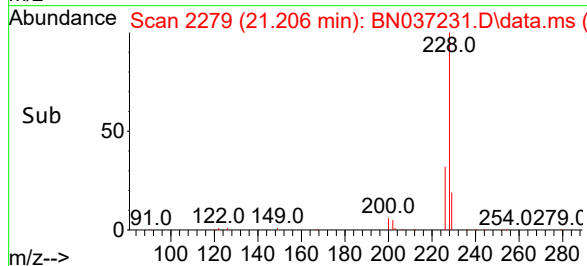
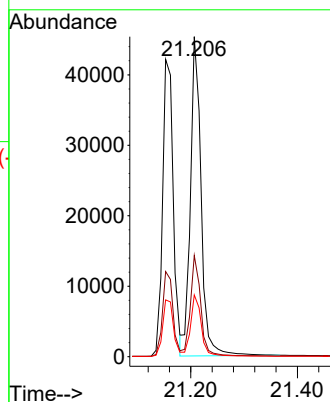
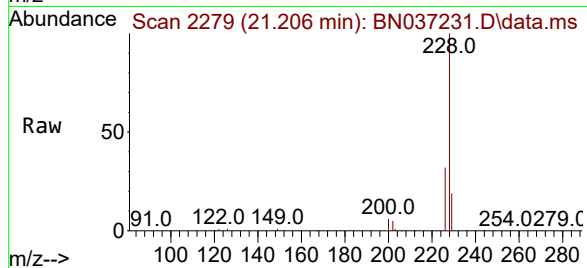
Tgt Ion:228 Resp: 63057

Ion Ratio Lower Upper

228 100

226 31.6 25.8 38.6

229 19.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.774 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

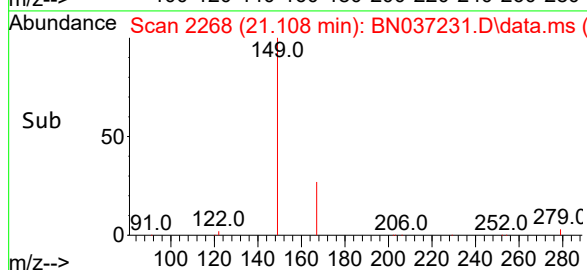
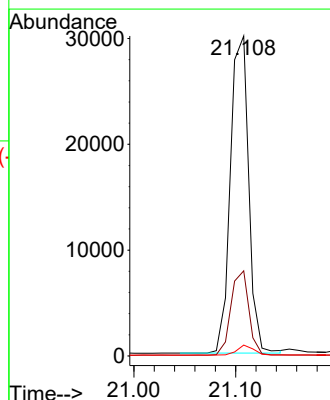
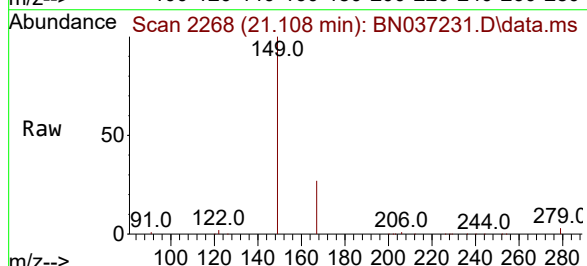
Tgt Ion:149 Resp: 37466

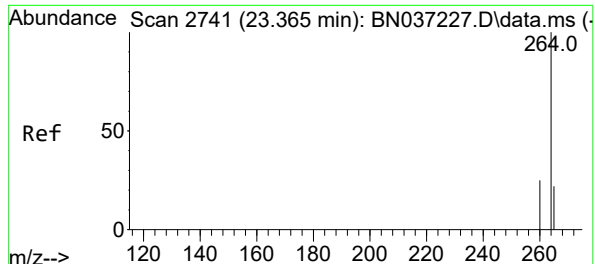
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 2.9 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

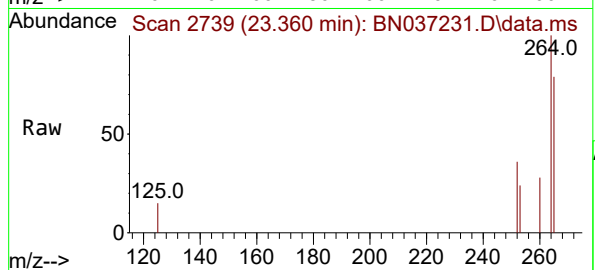
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



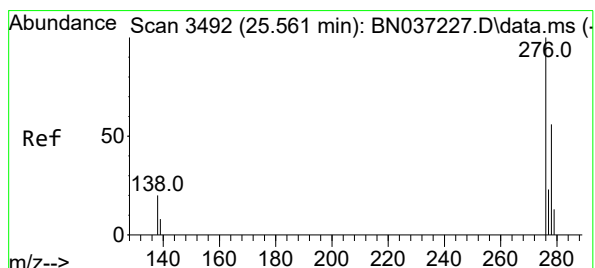
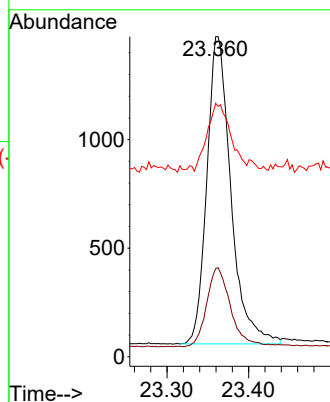
Tgt Ion:264 Resp: 2895

Ion Ratio Lower Upper

264 100

260 27.5 22.8 34.2

265 79.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.620 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

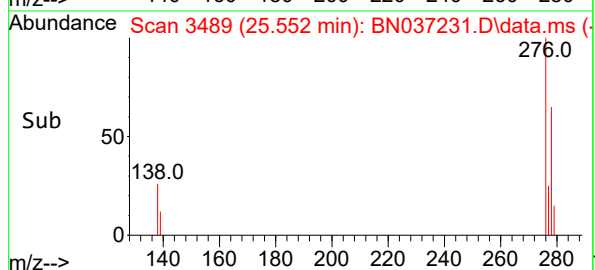
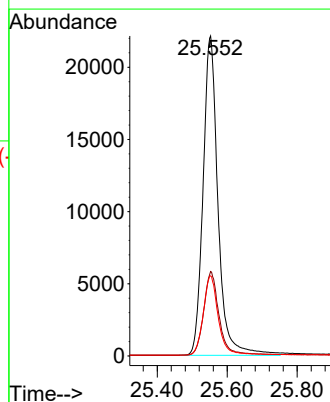
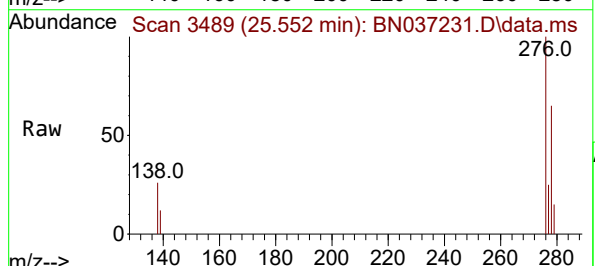
Tgt Ion:276 Resp: 65610

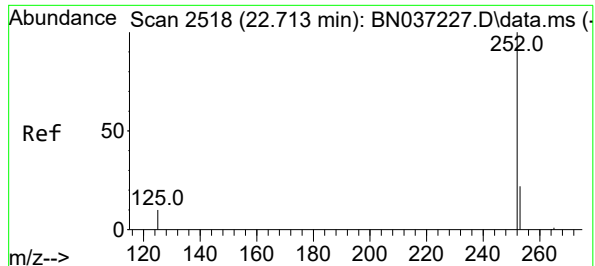
Ion Ratio Lower Upper

276 100

138 26.6 16.8 25.2#

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.536 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

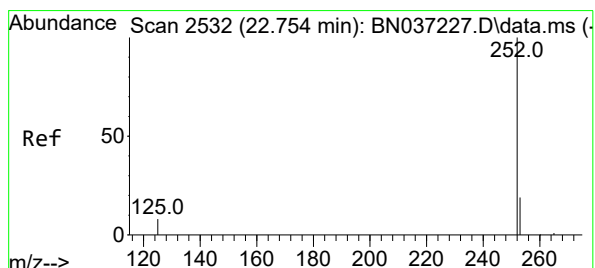
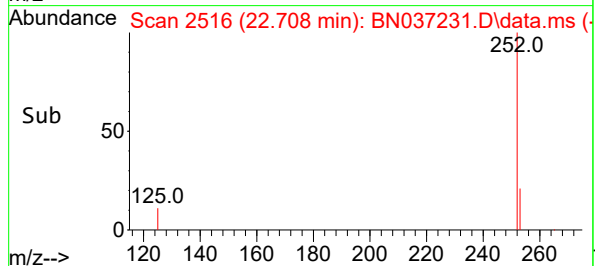
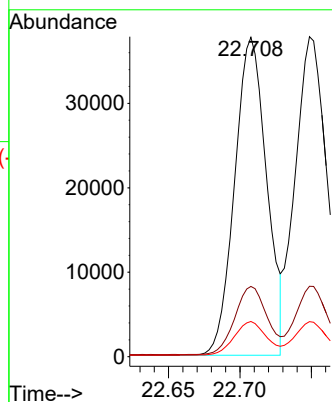
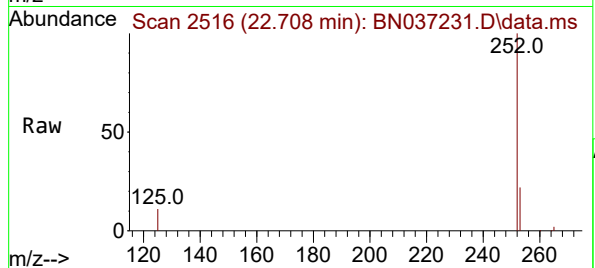
Tgt Ion:252 Resp: 58631

Ion Ratio Lower Upper

252 100

253 22.0 24.9 37.3#

125 11.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 5.148 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

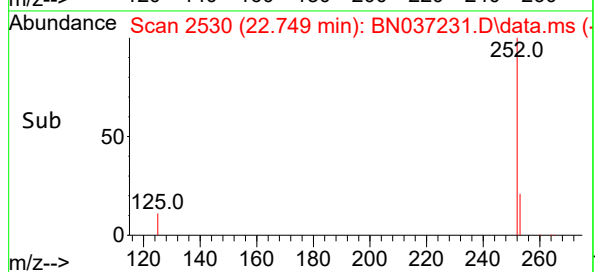
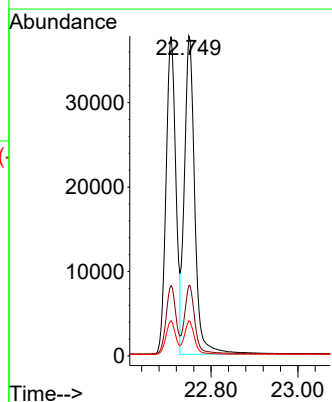
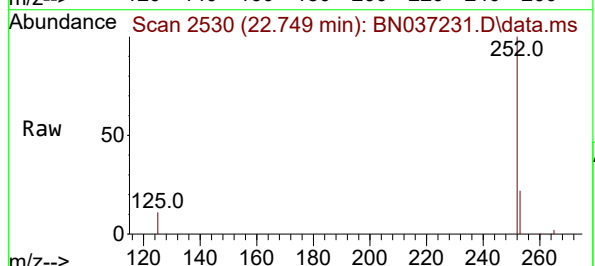
Tgt Ion:252 Resp: 62537

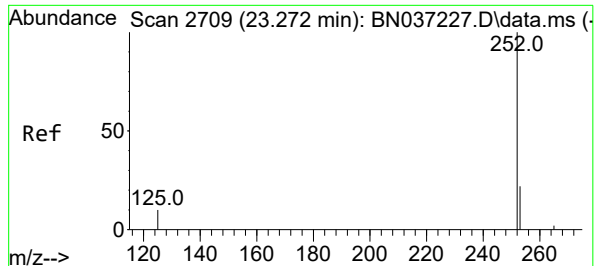
Ion Ratio Lower Upper

252 100

253 22.0 24.6 37.0#

125 11.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 5.368 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

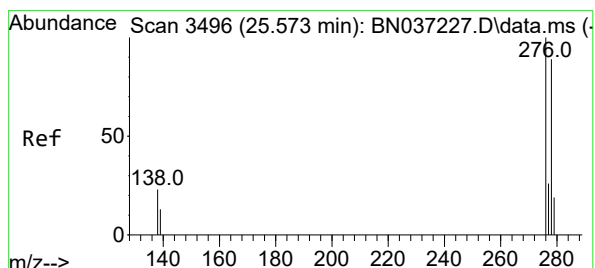
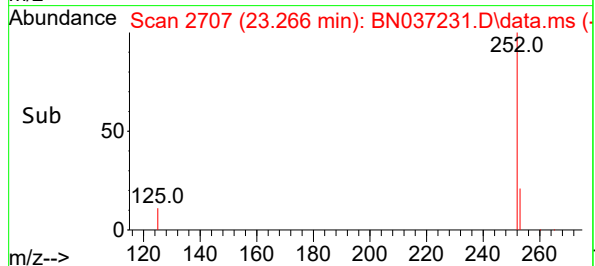
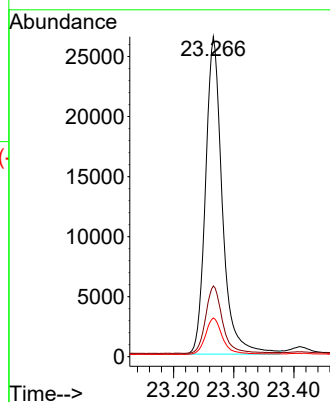
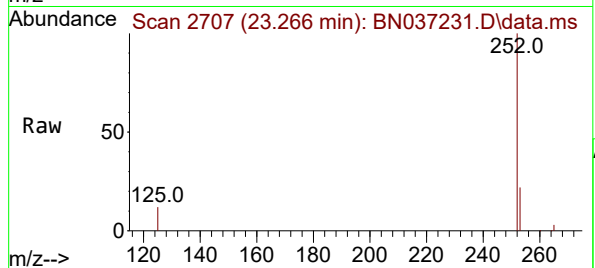
Tgt Ion:252 Resp: 51138

Ion Ratio Lower Upper

252 100

253 22.1 29.4 44.2#

125 12.1 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 5.871 ng

RT: 25.564 min Scan# 3493

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

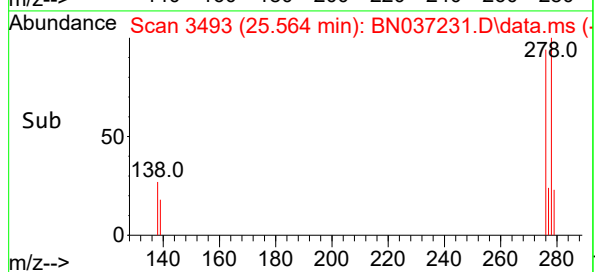
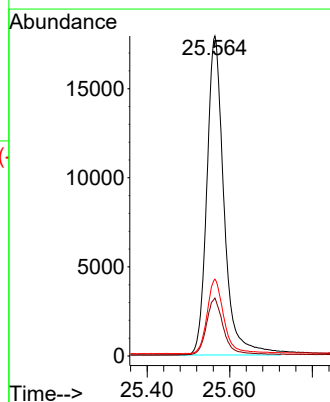
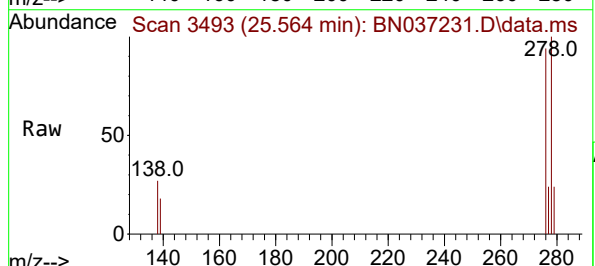
Tgt Ion:278 Resp: 51648

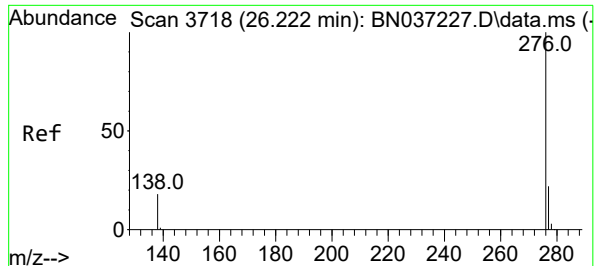
Ion Ratio Lower Upper

278 100

139 18.1 17.8 26.6

279 24.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 5.204 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037231.D

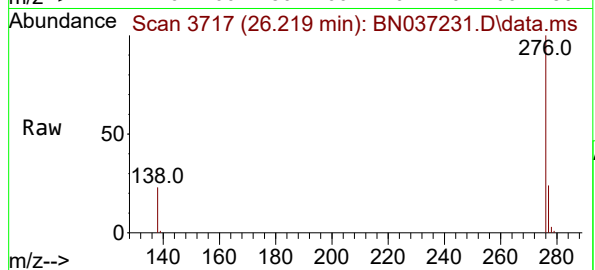
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



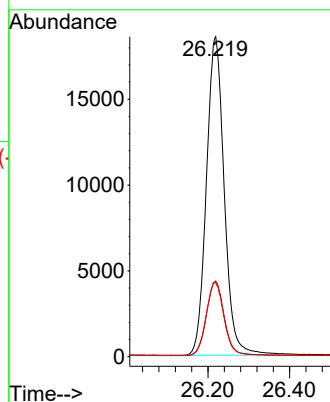
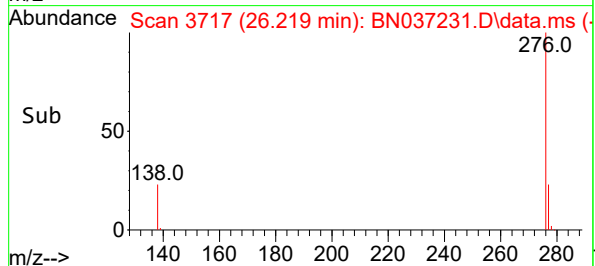
Tgt Ion:276 Resp: 56339

Ion Ratio Lower Upper

276 100

277 23.7 22.0 33.0

138 23.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

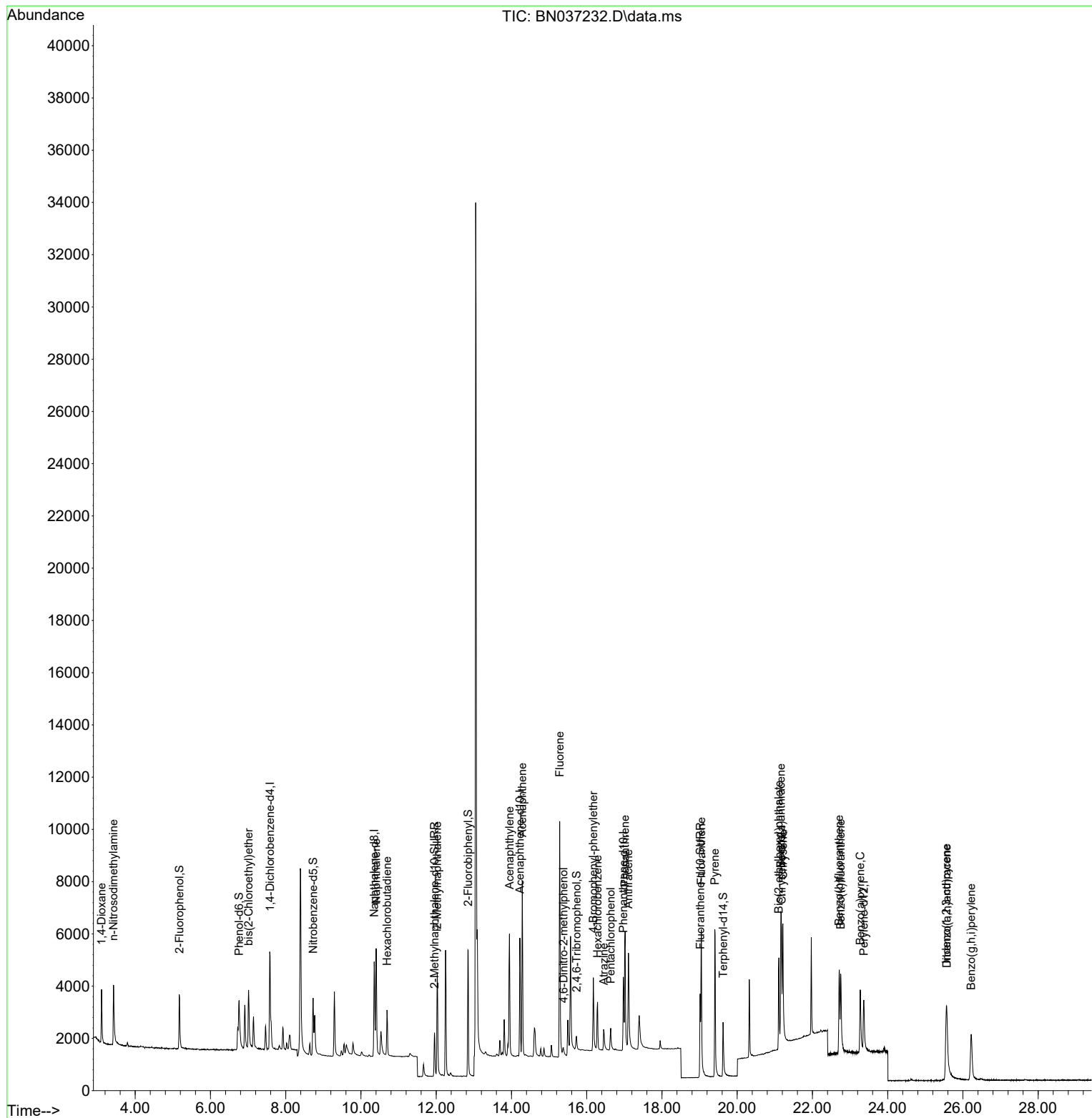
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1986	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4902	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2552	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4515	0.400	ng	0.00
29) Chrysene-d12	21.180	240	3230	0.400	ng	0.00
35) Perylene-d12	23.366	264	3076	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1716	0.352	ng	0.00
5) Phenol-d6	6.759	99	1849	0.360	ng	0.00
8) Nitrobenzene-d5	8.728	82	1988	0.410	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2615	0.398	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	327	0.308	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	4427	0.413	ng	0.00
27) Fluoranthene-d10	19.017	212	4358	0.369	ng	0.00
31) Terphenyl-d14	19.625	244	3044	0.417	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	1095	0.402	ng	91
3) n-Nitrosodimethylamine	3.422	42	2259	0.364	ng	# 91
6) bis(2-Chloroethyl)ether	7.012	93	2110	0.458	ng	89
9) Naphthalene	10.404	128	5483	0.386	ng	97
10) Hexachlorobutadiene	10.693	225	1319	0.382	ng	# 97
12) 2-Methylnaphthalene	12.026	142	3073	0.356	ng	99
16) Acenaphthylene	13.946	152	5109	0.409	ng	98
17) Acenaphthene	14.288	154	3050	0.378	ng	99
18) Fluorene	15.282	166	3826	0.369	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	326	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.177	248	1082	0.368	ng	97
22) Hexachlorobenzene	16.289	284	1296	0.380	ng	98
23) Atrazine	16.450	200	1004	0.383	ng	89
24) Pentachlorophenol	16.636	266	540	0.323	ng	95
25) Phenanthrene	17.021	178	5458	0.381	ng	99
26) Anthracene	17.108	178	4934	0.376	ng	100
28) Fluoranthene	19.045	202	5935	0.354	ng	98
30) Pyrene	19.407	202	5948	0.392	ng	100
32) Benzo(a)anthracene	21.162	228	4183	0.384	ng	99
33) Chrysene	21.215	228	5302	0.390	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3027	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.558	276	4825	0.389	ng	99
37) Benzo(b)fluoranthene	22.711	252	4122	0.366	ng	96
38) Benzo(k)fluoranthene	22.752	252	4721	0.363	ng	98
39) Benzo(a)pyrene	23.272	252	4086	0.404	ng	# 93
40) Dibenzo(a,h)anthracene	25.573	278	3443	0.365	ng	94
41) Benzo(g,h,i)perylene	26.219	276	4068	0.354	ng	97

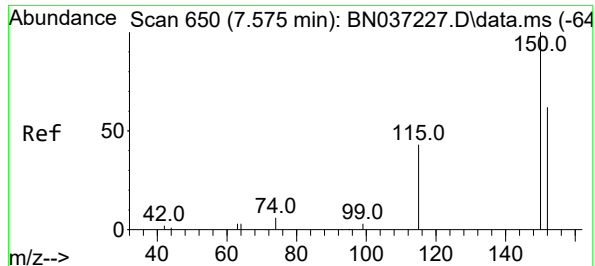
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

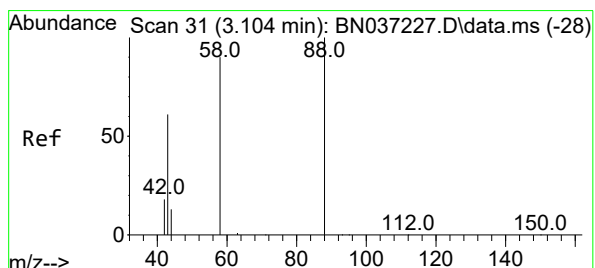
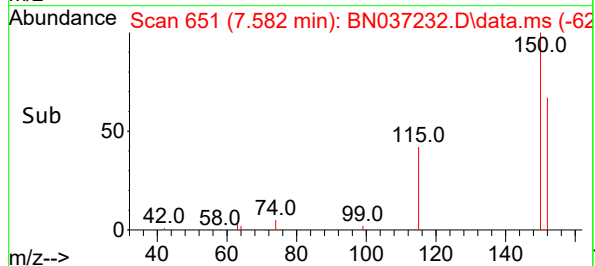
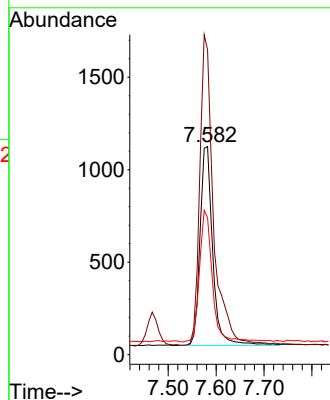
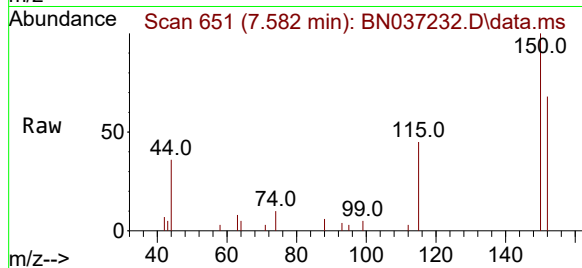




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

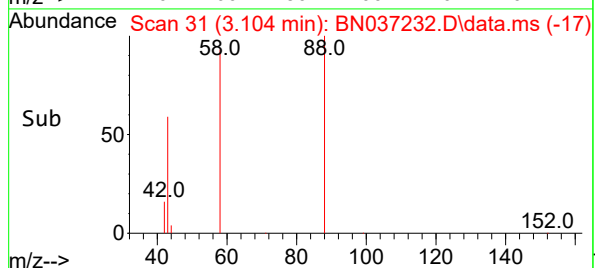
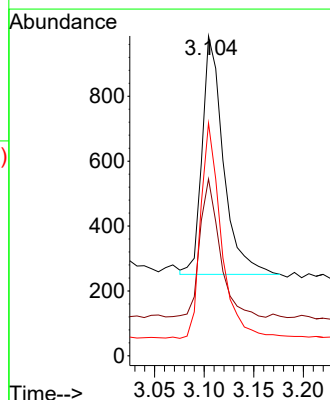
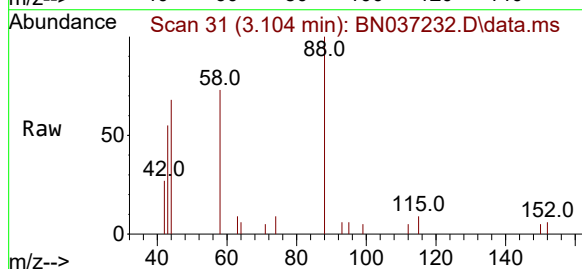
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

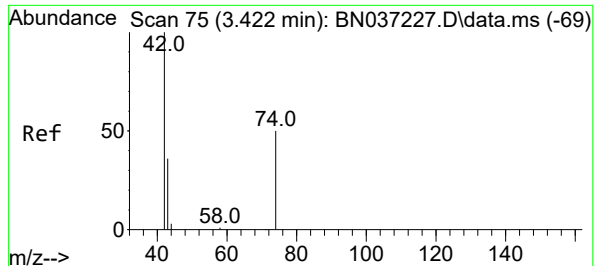
Tgt Ion:152 Resp: 1986
Ion Ratio Lower Upper
152 100
150 146.5 125.2 187.8
115 65.8 58.4 87.6



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 88 Resp: 1095
Ion Ratio Lower Upper
88 100
43 54.6 52.6 79.0
58 86.8 73.5 110.3

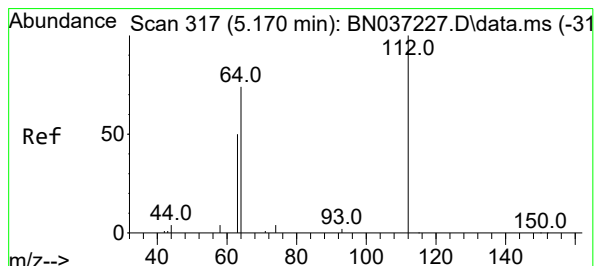
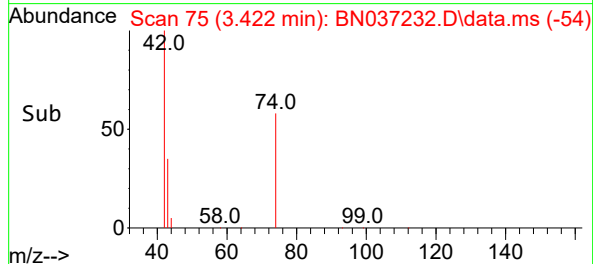
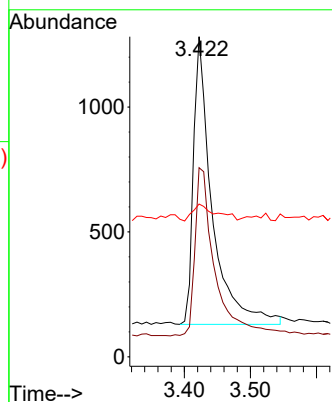
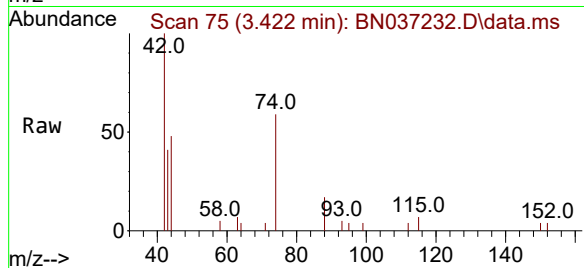




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

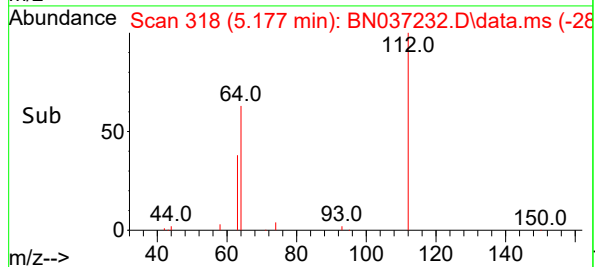
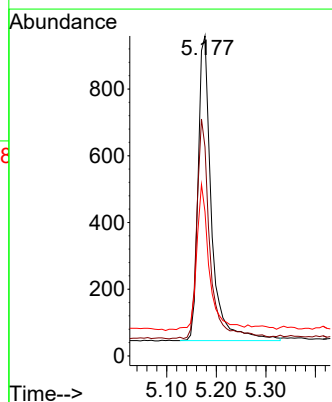
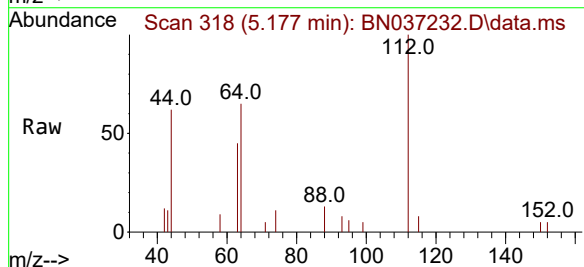
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

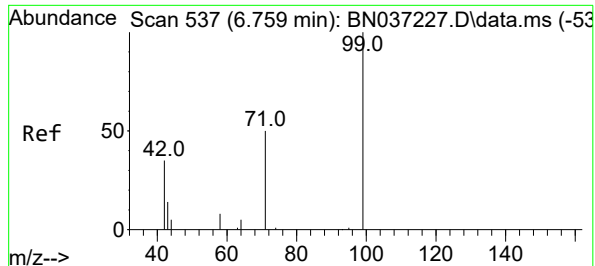
Tgt Ion: 42 Resp: 2259
Ion Ratio Lower Upper
42 100
74 62.0 44.6 66.8
44 7.5 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 112 Resp: 1716
Ion Ratio Lower Upper
112 100
64 70.6 57.2 85.8
63 45.6 39.8 59.6





#5

Phenol-d6

Concen: 0.360 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

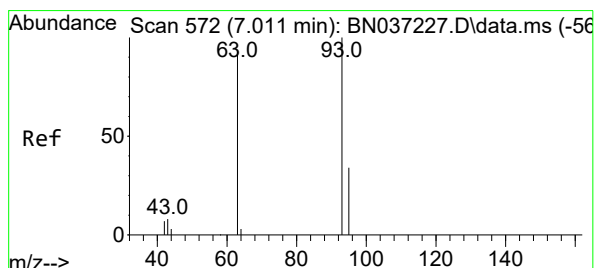
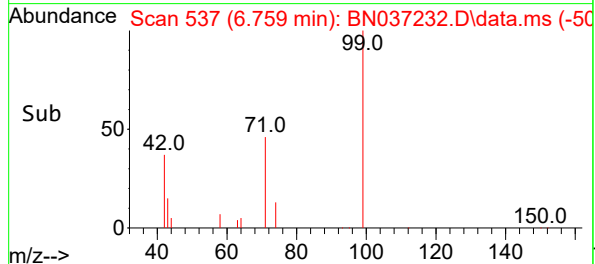
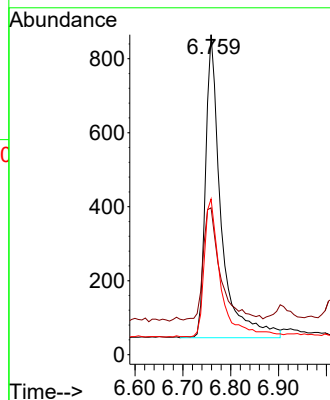
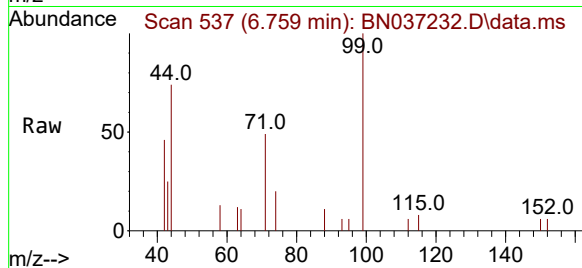
Tgt Ion: 99 Resp: 1849

Ion Ratio Lower Upper

99 100

42 40.9 36.2 54.4

71 48.2 42.4 63.6



#6

bis(2-Chloroethyl)ether

Concen: 0.458 ng

RT: 7.012 min Scan# 572

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

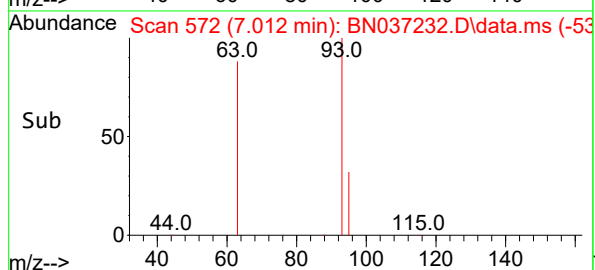
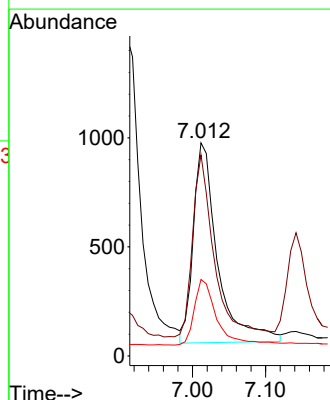
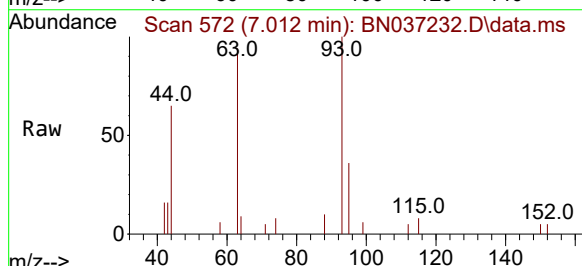
Tgt Ion: 93 Resp: 2110

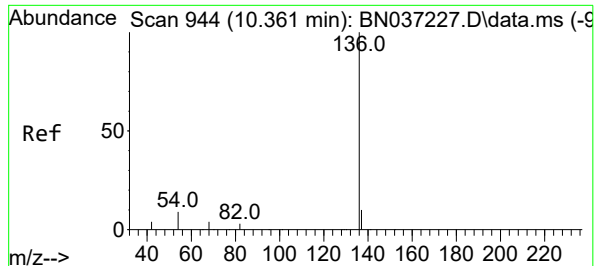
Ion Ratio Lower Upper

93 100

63 81.0 75.2 112.8

95 31.9 28.3 42.5

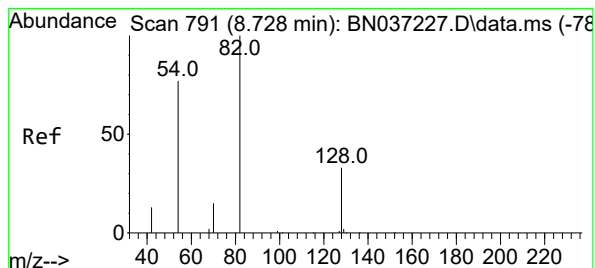
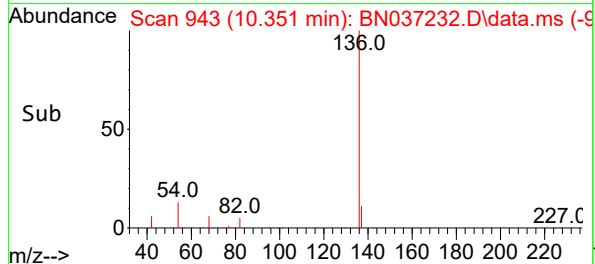
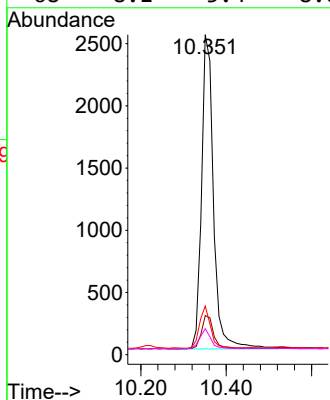
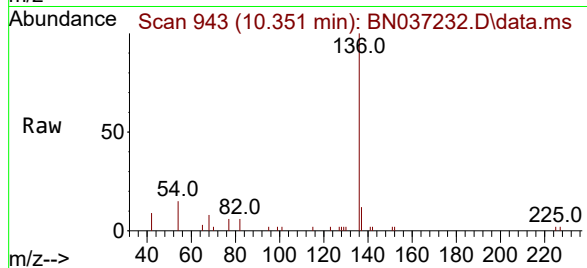




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

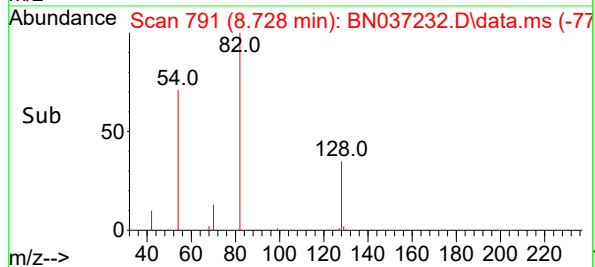
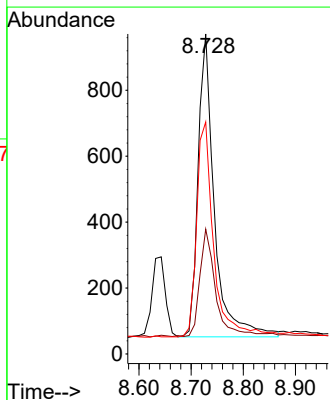
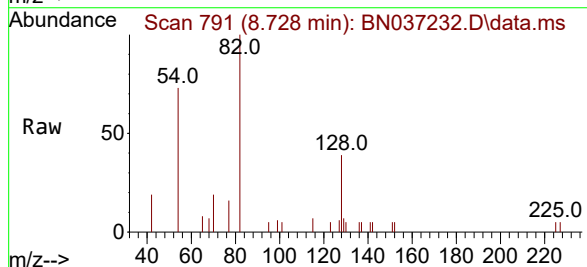
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

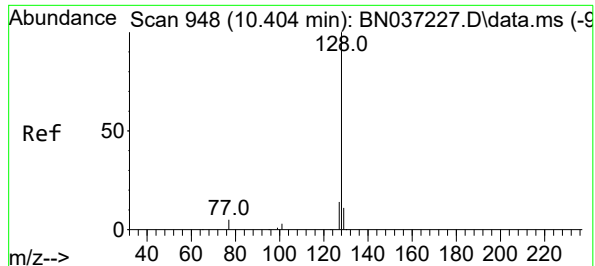
Tgt Ion:	136	Resp:	4902
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.6	15.8
54	15.2	9.2	13.8#
68	8.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.410 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	82	Resp:	1988
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	72.5	63.3	94.9

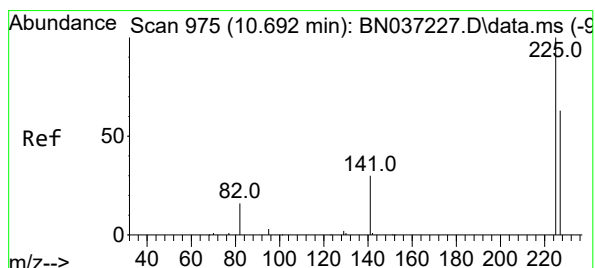
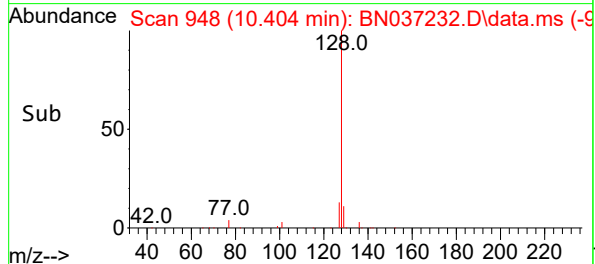
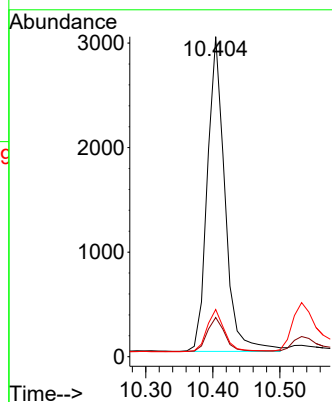
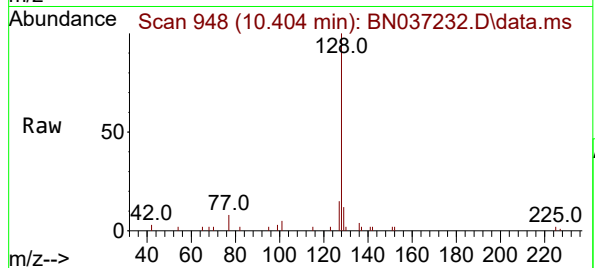




#9
Naphthalene
Concen: 0.386 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

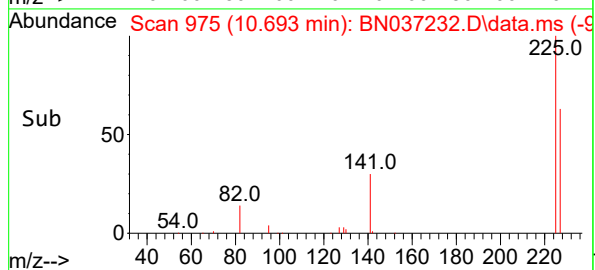
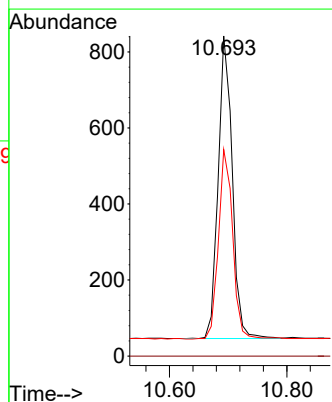
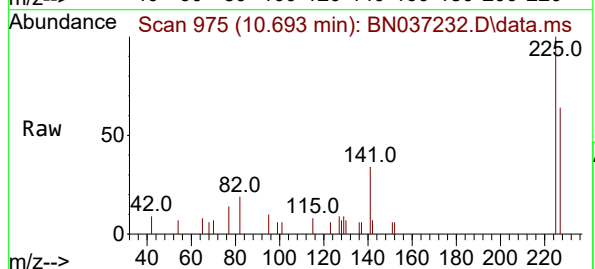
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

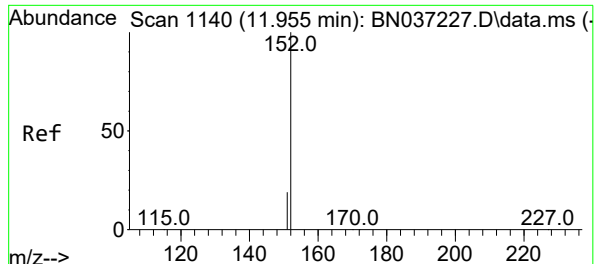
Tgt Ion:	128	Resp:	5483
Ion Ratio	Lower	Upper	
128	100		
129	12.3	10.7	16.1
127	14.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.382 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	225	Resp:	1319
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.6	49.2	73.8

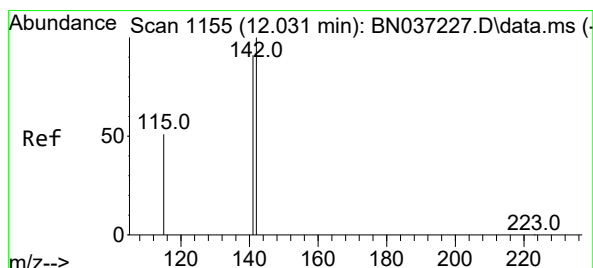
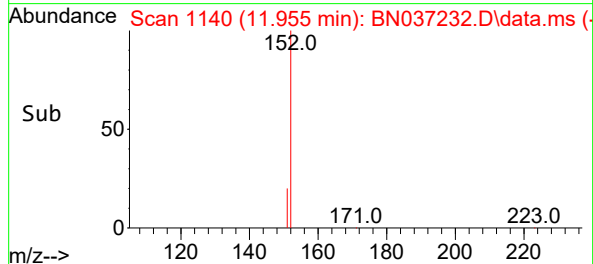
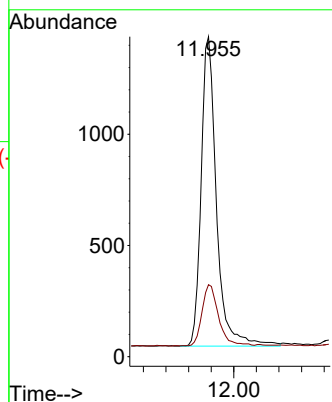
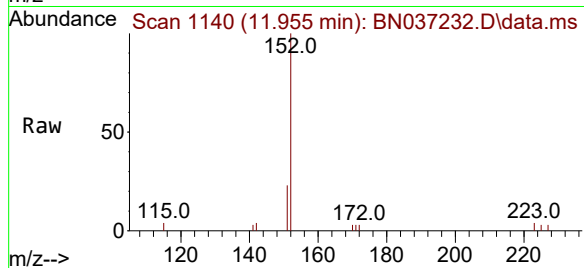




#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

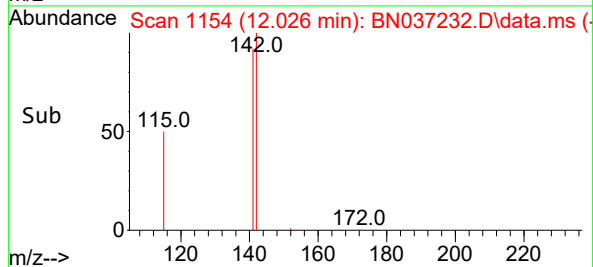
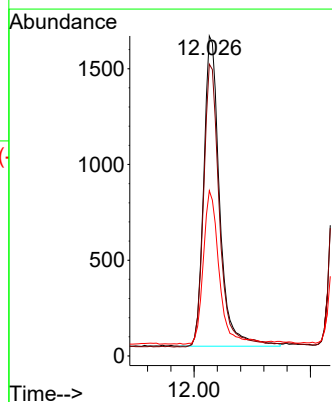
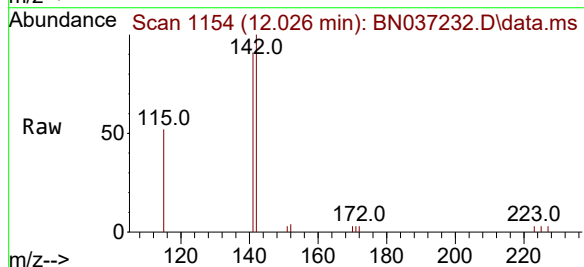
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

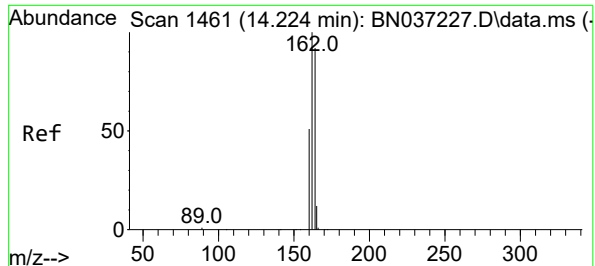
Tgt Ion:152 Resp: 2615
Ion Ratio Lower Upper
152 100
151 21.3 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:142 Resp: 3073
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.6 43.3 64.9

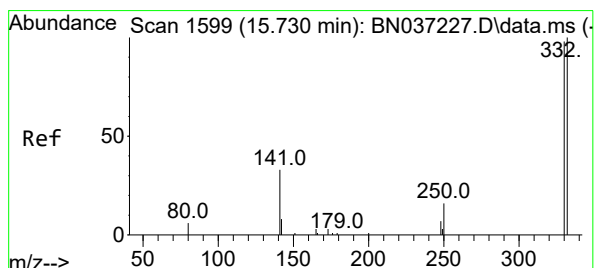
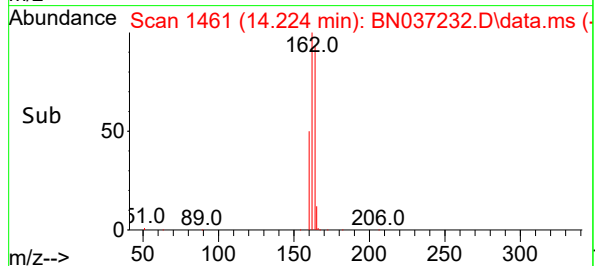
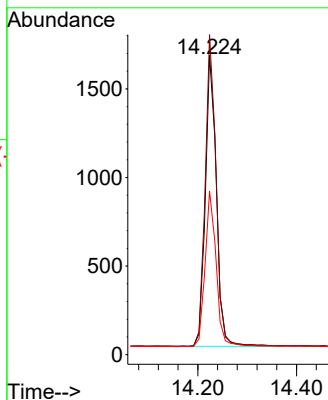
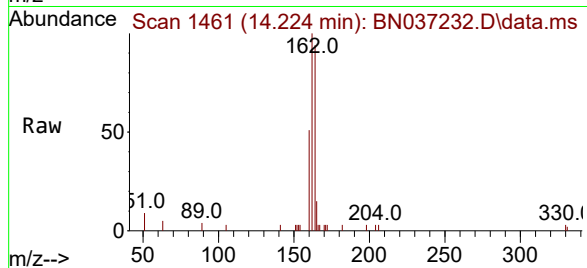




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

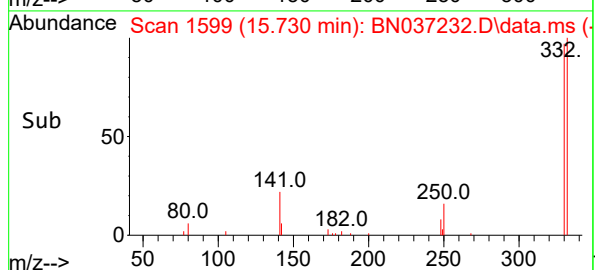
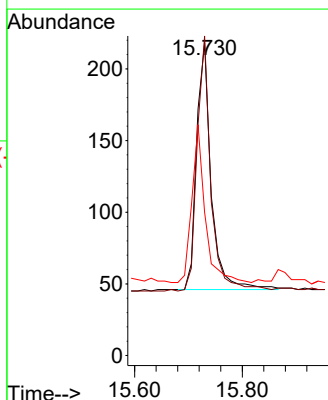
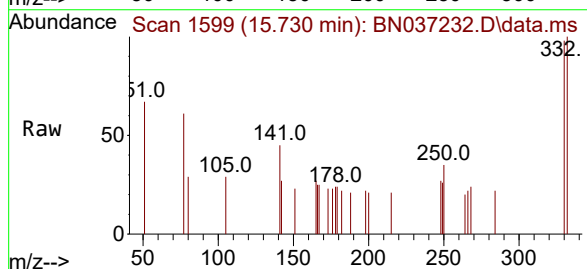
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

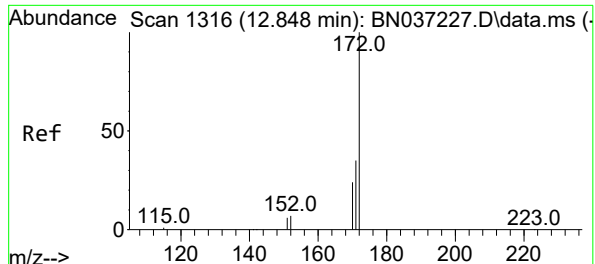
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.8	86.7	130.1
160	54.6	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.6	74.9	112.3
141	57.2	45.1	67.7

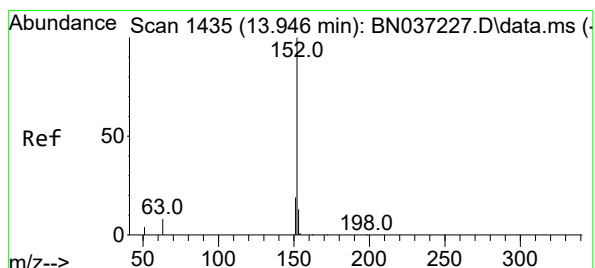
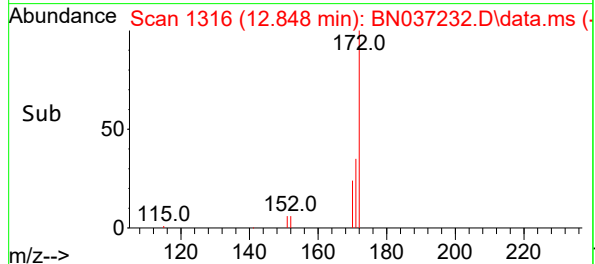
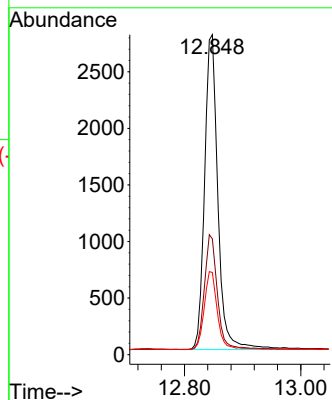
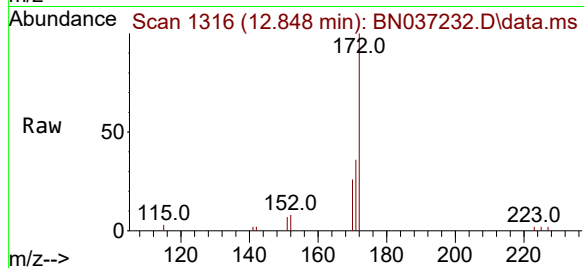




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

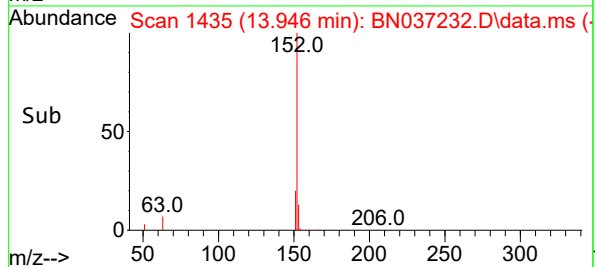
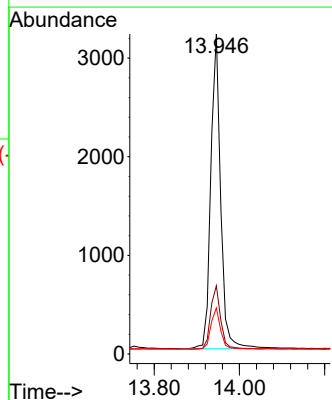
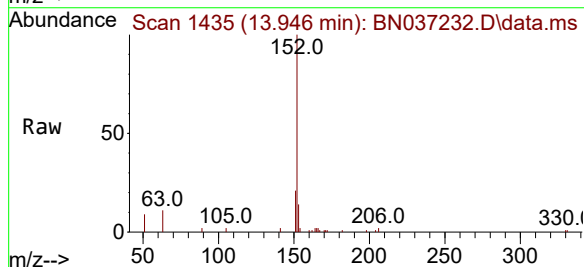
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

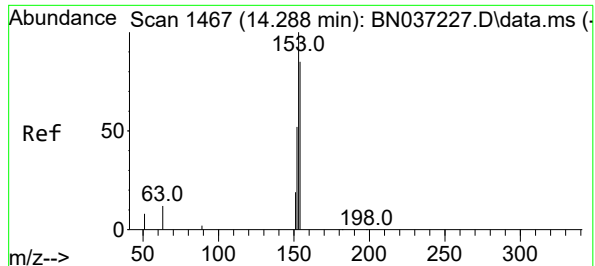
Tgt Ion:	172	Resp:	4427
Ion Ratio	Lower	Upper	
172	100		
171	36.2	29.8	44.8
170	25.7	21.1	31.7



#16
Acenaphthylene
Concen: 0.409 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	152	Resp:	5109
Ion Ratio	Lower	Upper	
152	100		
151	20.7	15.7	23.5
153	12.9	10.7	16.1

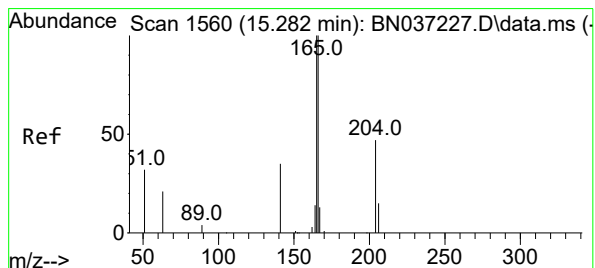
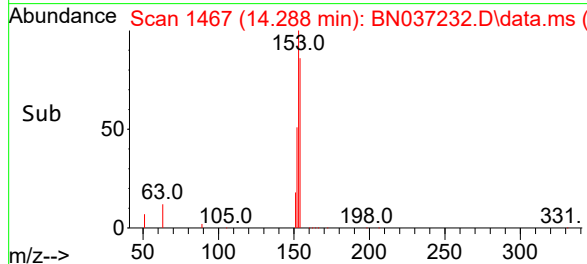
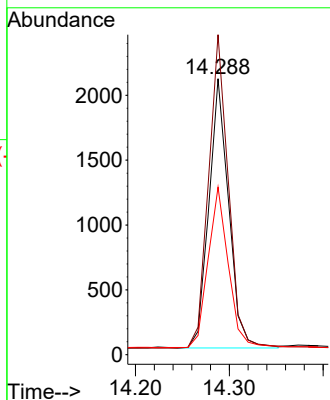
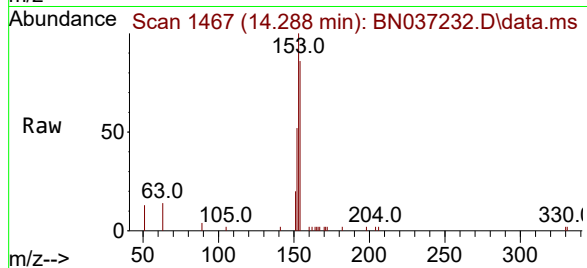




#17
Acenaphthene
Concen: 0.378 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

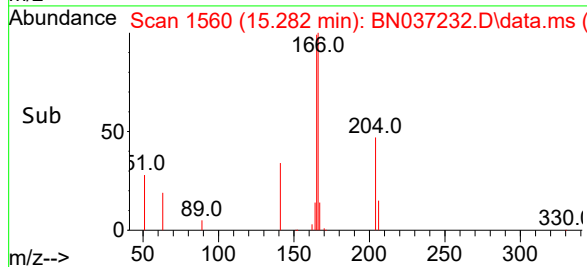
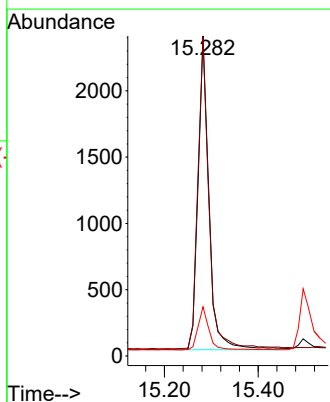
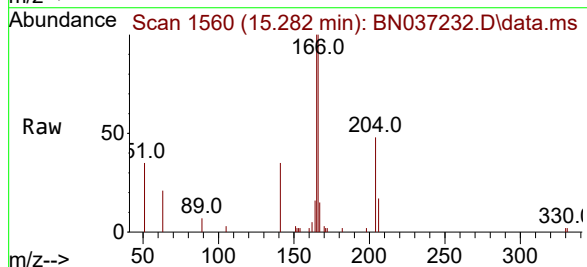
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

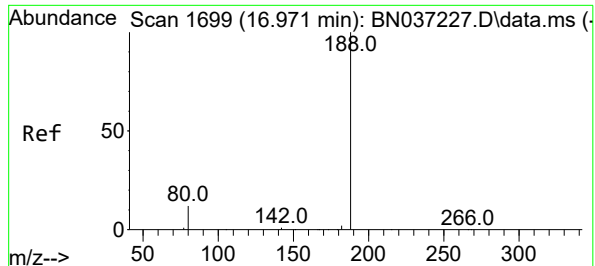
Tgt Ion:154 Resp: 3050
Ion Ratio Lower Upper
154 100
153 117.3 94.6 141.8
152 61.5 49.6 74.4



#18
Fluorene
Concen: 0.369 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:166 Resp: 3826
Ion Ratio Lower Upper
166 100
165 99.5 79.8 119.6
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

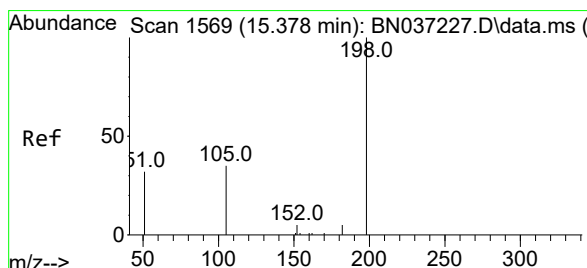
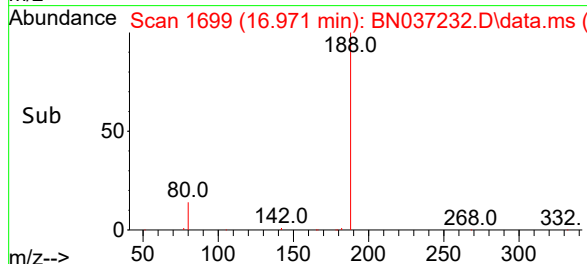
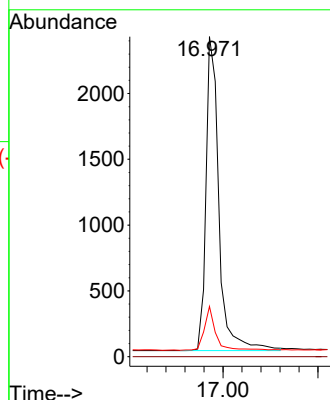
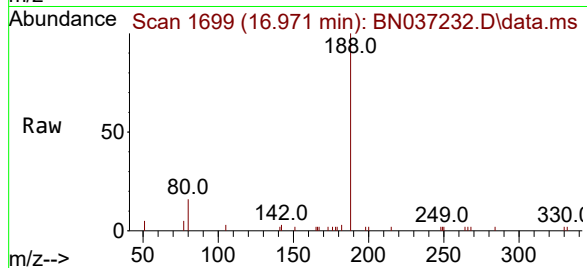
Tgt Ion:188 Resp: 4515

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

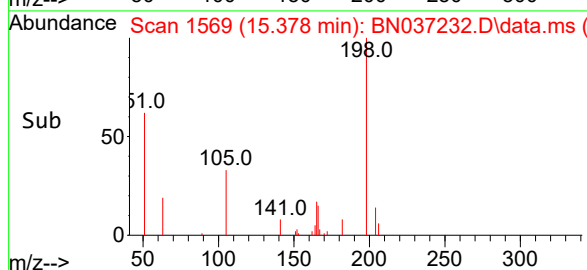
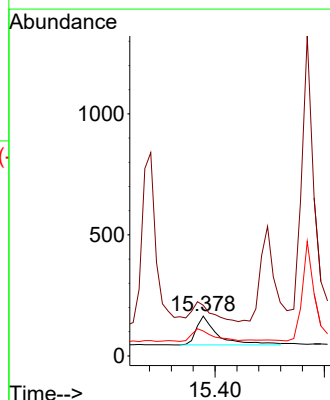
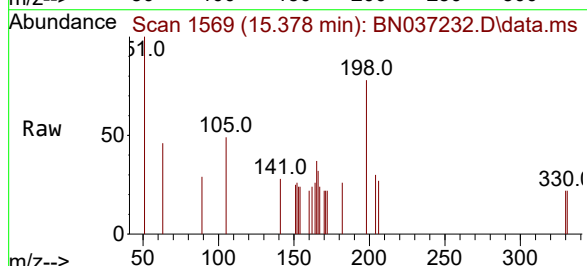
Tgt Ion:198 Resp: 326

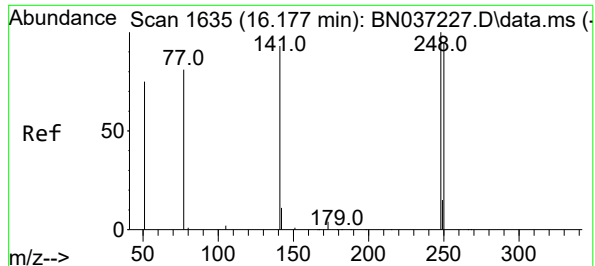
Ion Ratio Lower Upper

198 100

51 127.4 111.2 166.8

105 62.8 54.0 81.0

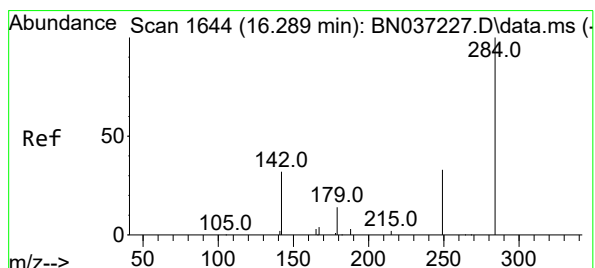
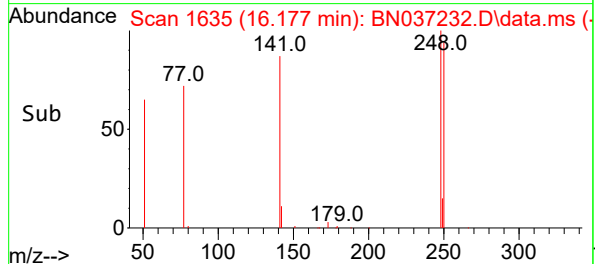
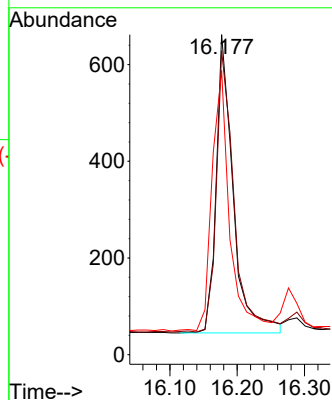
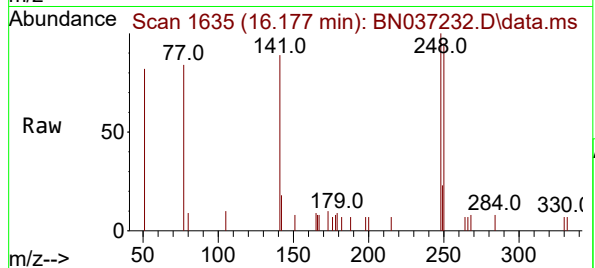




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

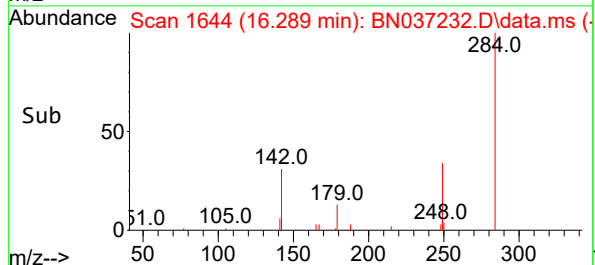
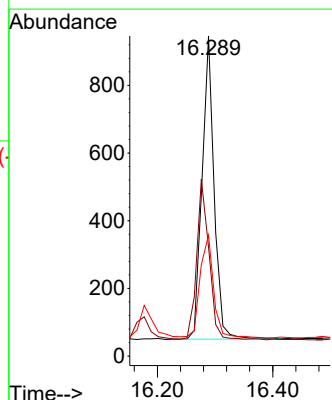
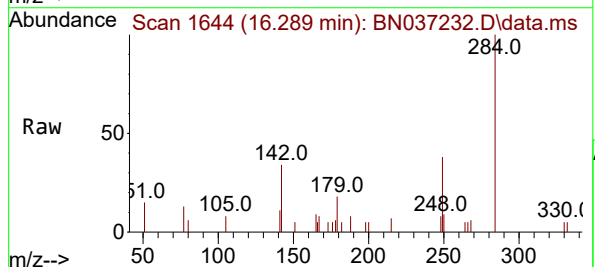
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

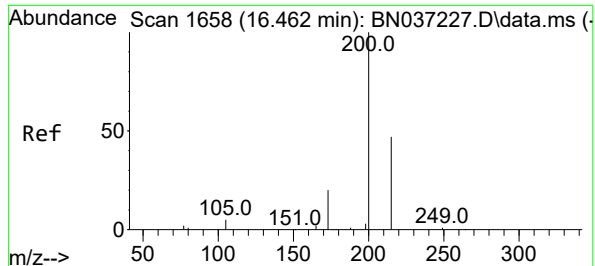
Tgt Ion:248 Resp: 1082
Ion Ratio Lower Upper
248 100
250 95.0 76.8 115.2
141 88.8 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:284 Resp: 1296
Ion Ratio Lower Upper
284 100
142 55.1 43.8 65.6
249 38.3 28.4 42.6

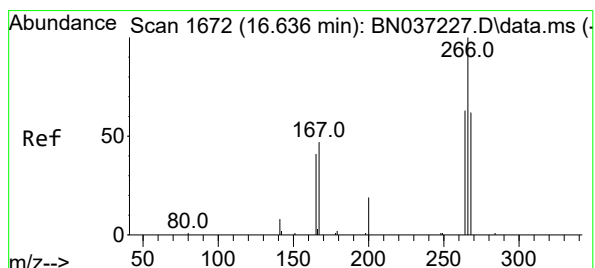
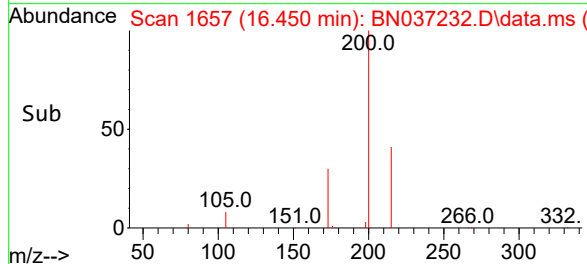
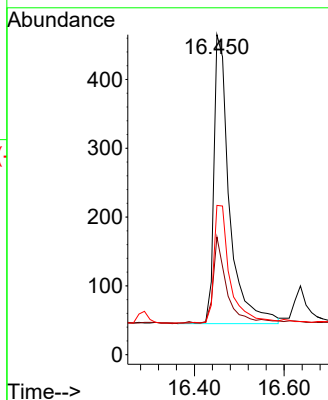
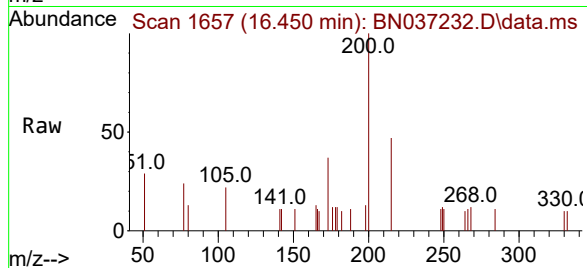




#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

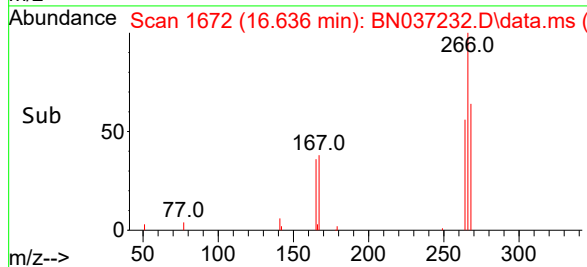
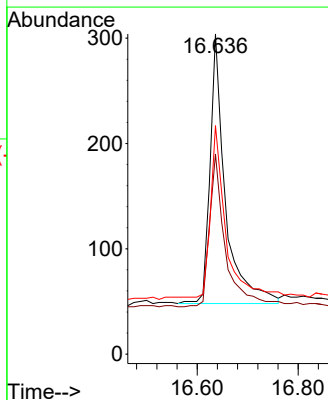
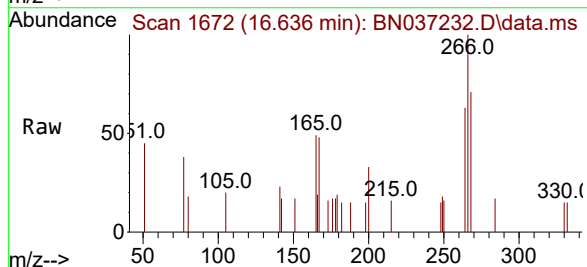
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

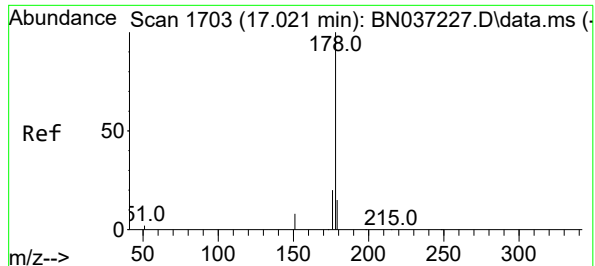
Tgt Ion	200	Resp	1004
Ion Ratio	100		
Lower	25.1		
Upper	37.7		
215	46.7		65.5



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	266	Resp	540
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	49.2		
Upper	73.8		
264	59.1		80.2

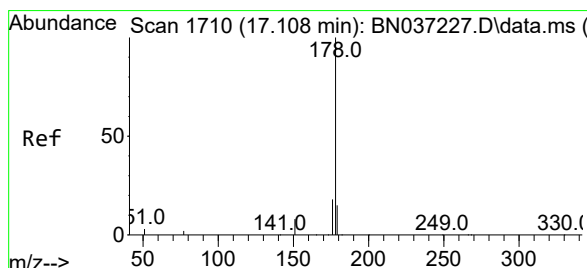
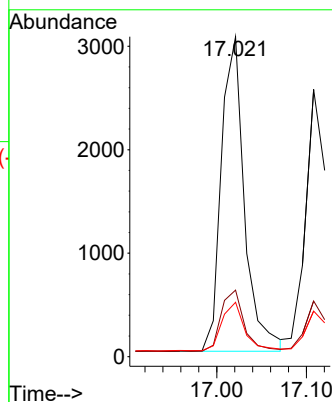
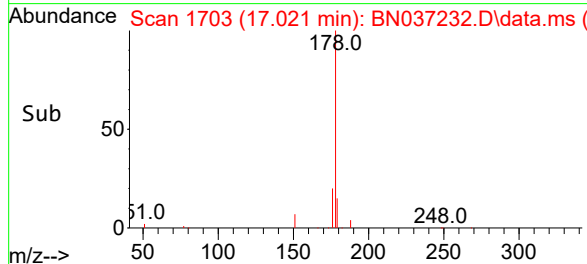
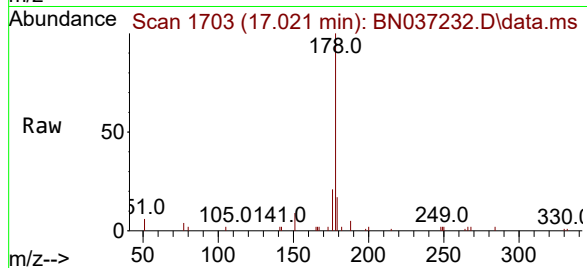




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

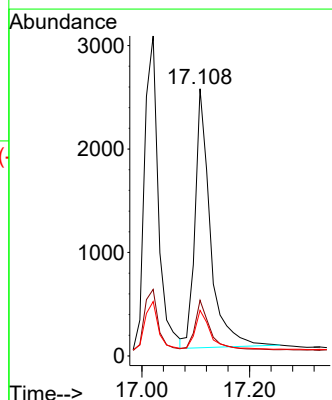
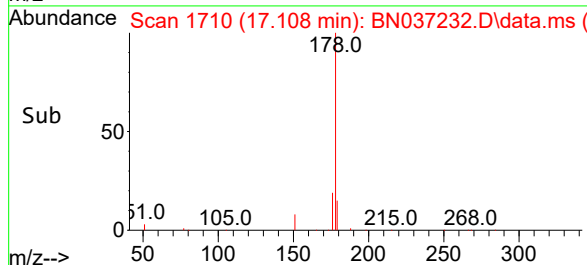
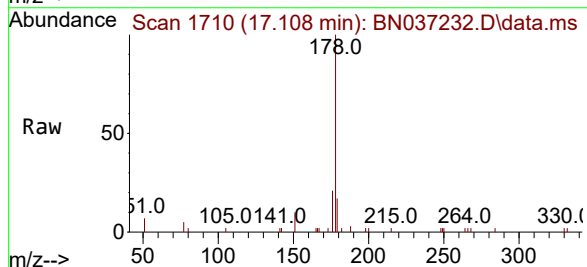
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

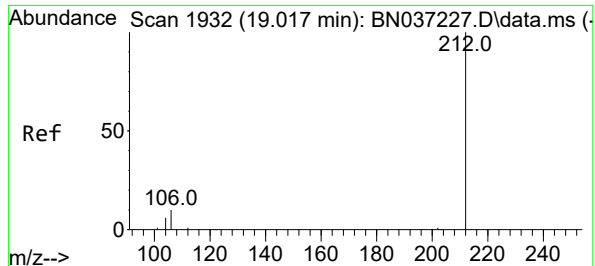
Tgt Ion:178 Resp: 5458
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.4 12.6 18.8



#26
Anthracene
Concen: 0.376 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:178 Resp: 4934
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

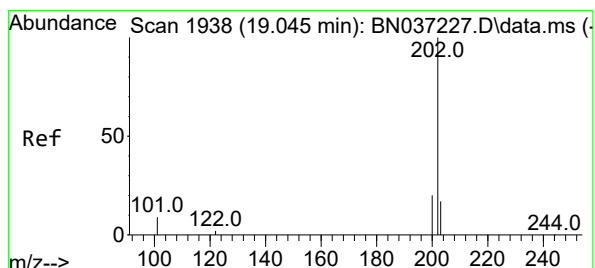
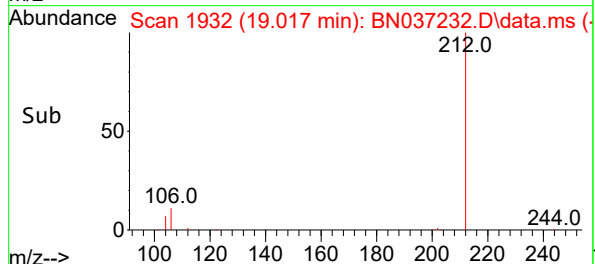
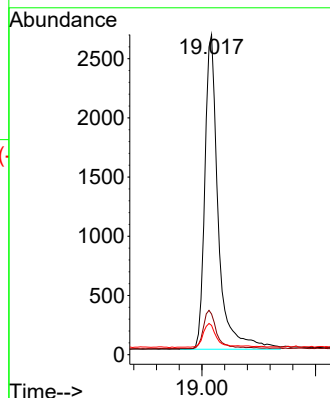
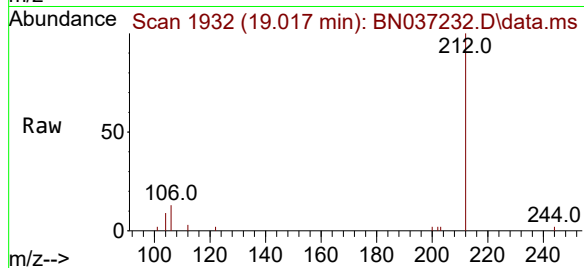
Tgt Ion:212 Resp: 4358

Ion Ratio Lower Upper

212 100

106 12.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 0.354 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

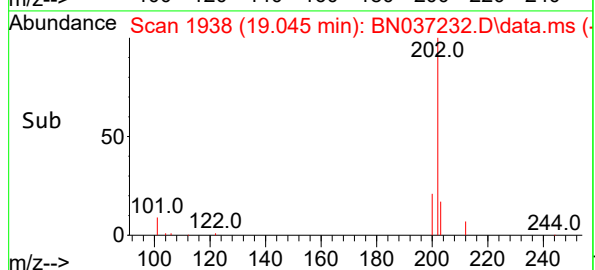
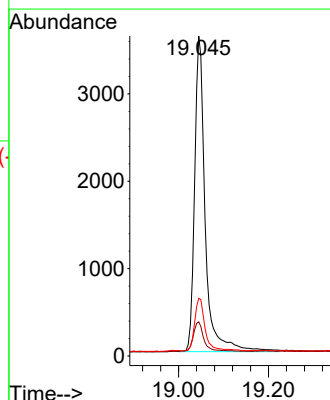
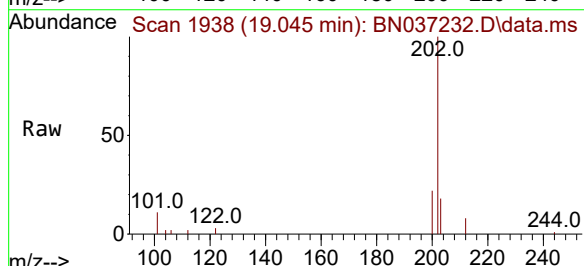
Tgt Ion:202 Resp: 5935

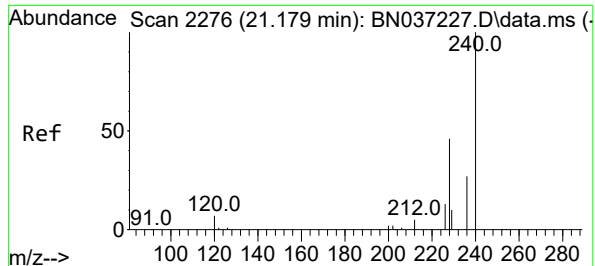
Ion Ratio Lower Upper

202 100

101 10.1 7.1 10.7

203 16.8 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

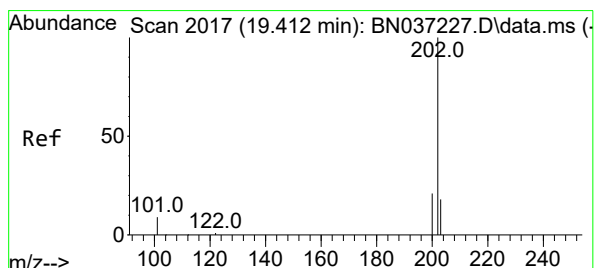
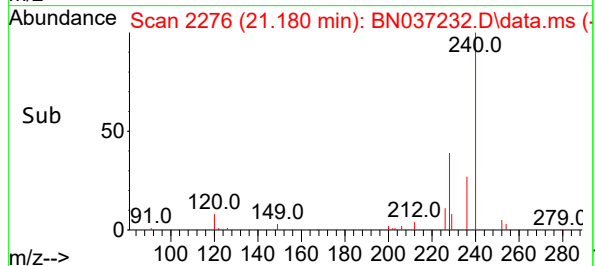
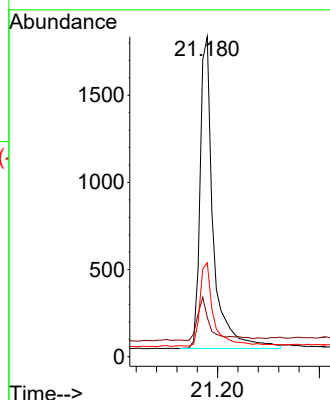
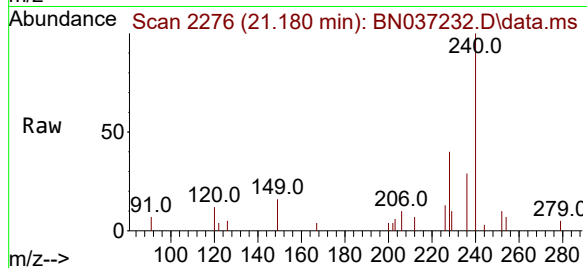
Tgt Ion:240 Resp: 3230

Ion Ratio Lower Upper

240 100

120 12.3 11.3 16.9

236 29.4 24.4 36.6



#30

Pyrene

Concen: 0.392 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

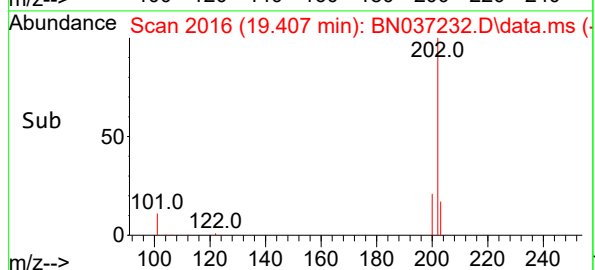
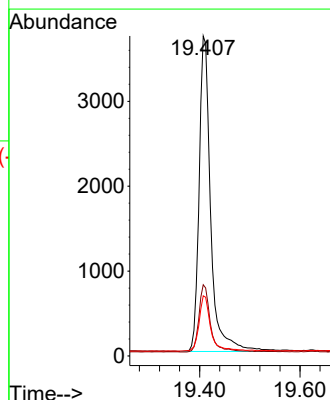
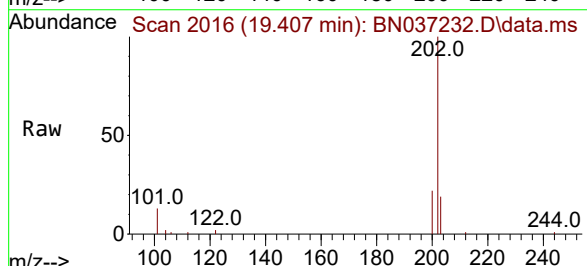
Tgt Ion:202 Resp: 5948

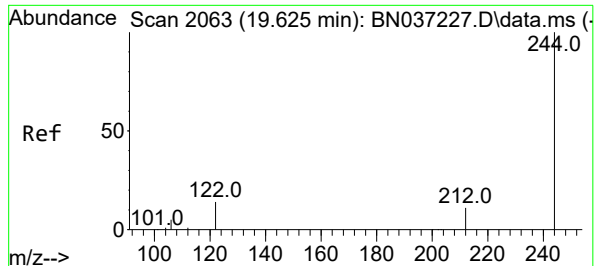
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.7 14.3 21.5

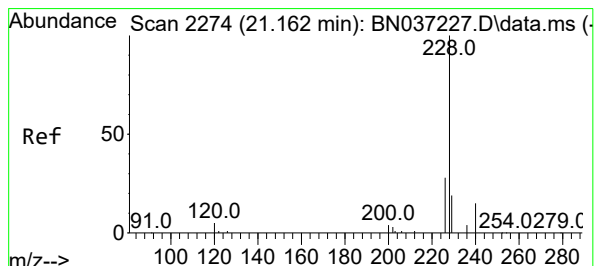
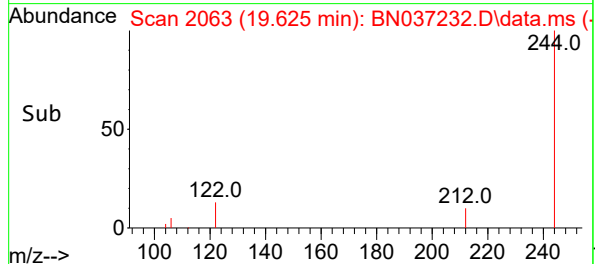
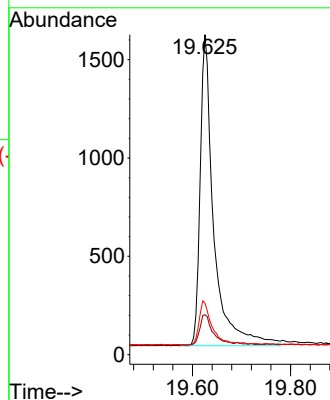
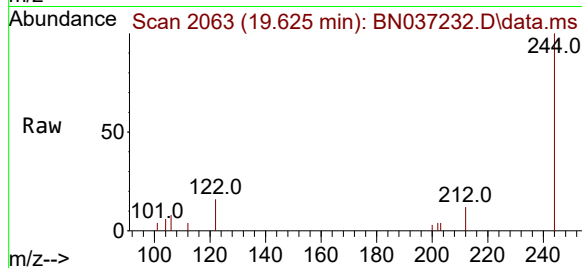




#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

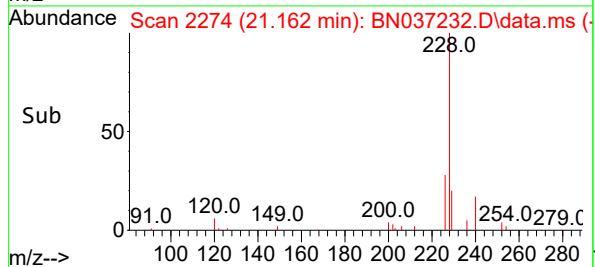
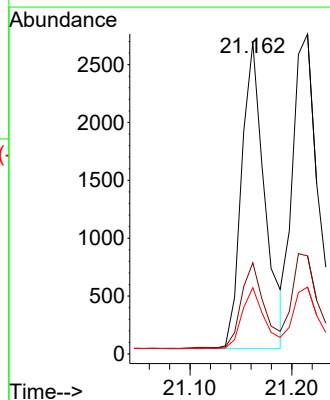
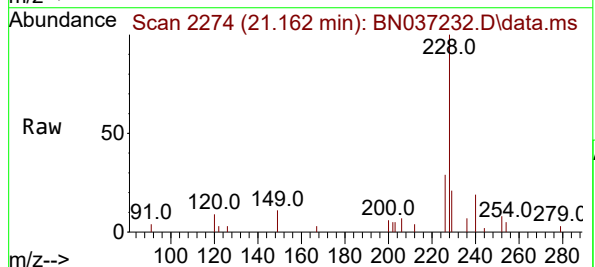
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

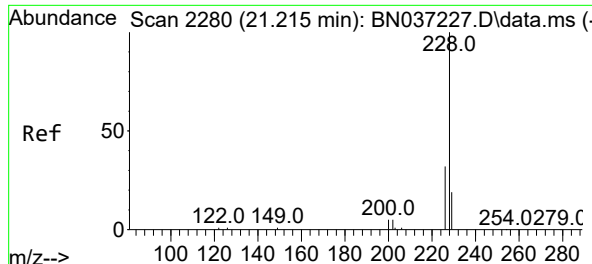
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.5	12.2	18.2
122	16.1	14.3	21.5



#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.8
229	21.2	17.0	25.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

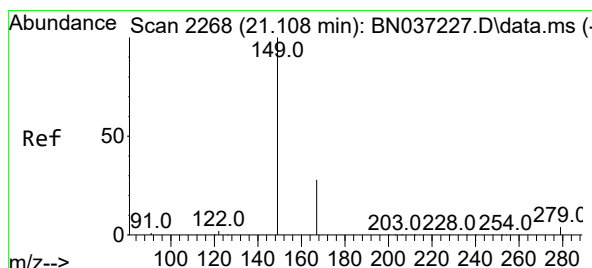
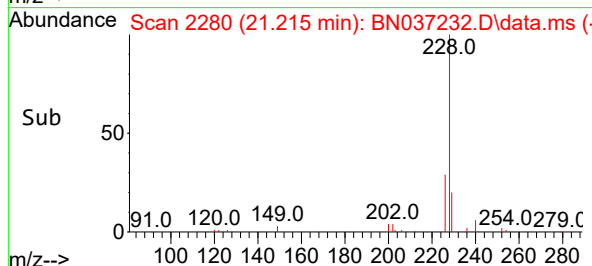
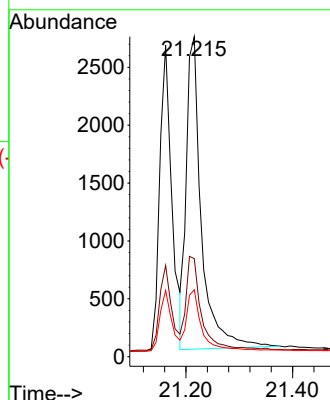
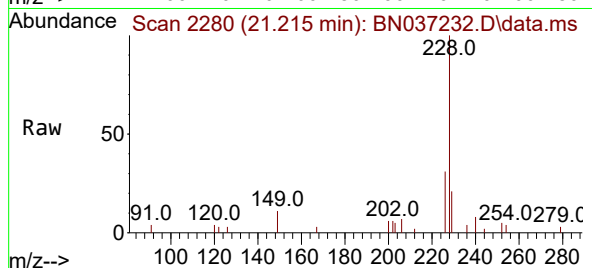
Tgt Ion:228 Resp: 5302

Ion Ratio Lower Upper

228 100

226 30.6 25.8 38.6

229 20.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.373 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

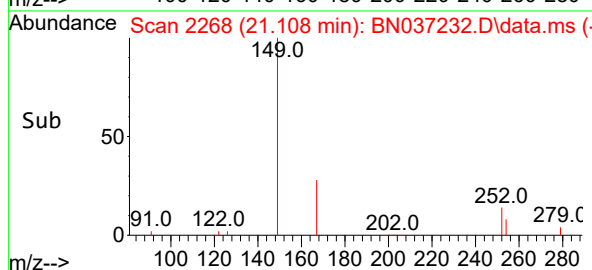
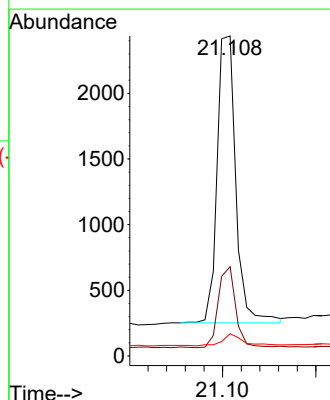
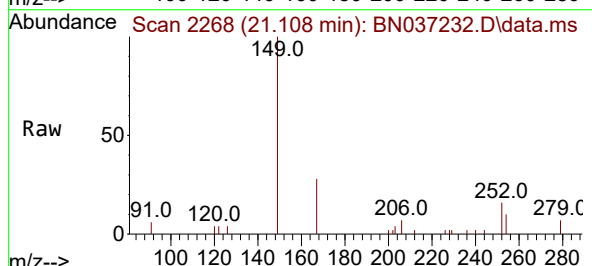
Tgt Ion:149 Resp: 3027

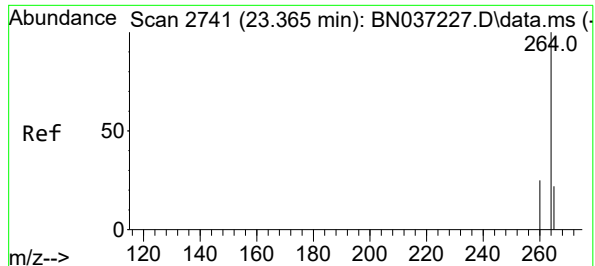
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

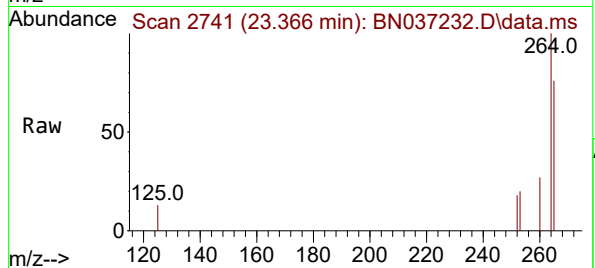
279 4.7 3.3 4.9



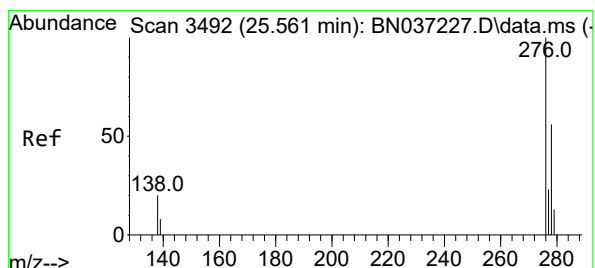
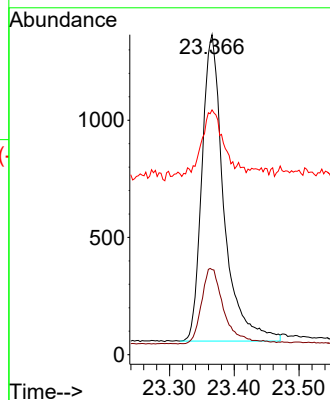
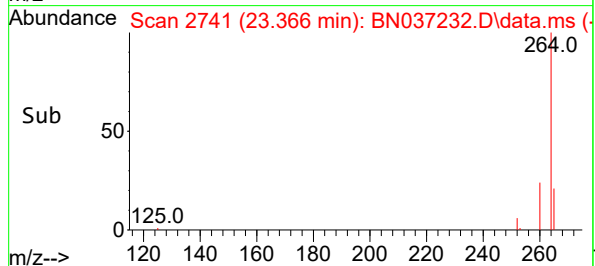


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

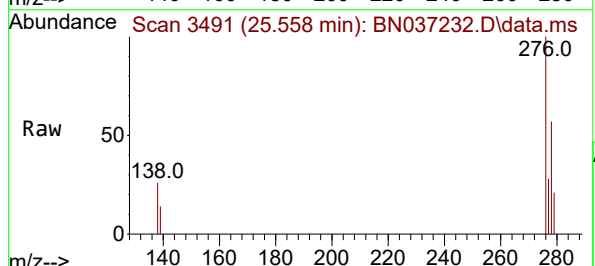
Instrument :
BNA_N
ClientSampleId :
ICVBN061325



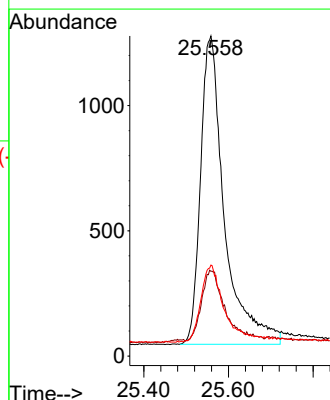
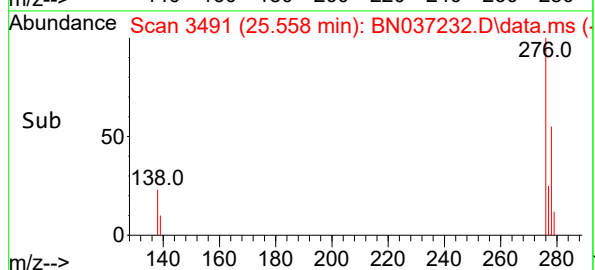
Tgt Ion:264 Resp: 3076
Ion Ratio Lower Upper
264 100
260 26.6 22.8 34.2
265 76.5 66.4 99.6

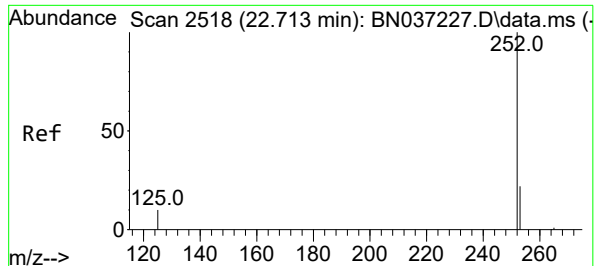


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.558 min Scan# 3491
Delta R.T. -0.003 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47



Tgt Ion:276 Resp: 4825
Ion Ratio Lower Upper
276 100
138 21.3 16.8 25.2
277 23.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037232.D

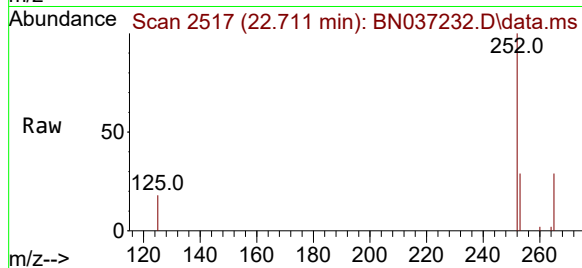
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



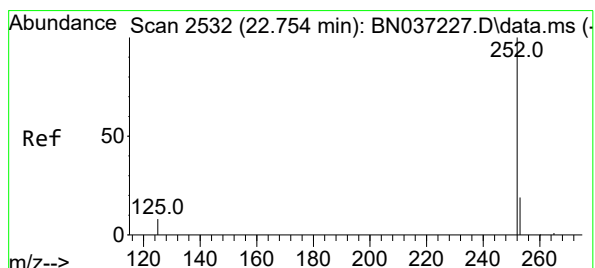
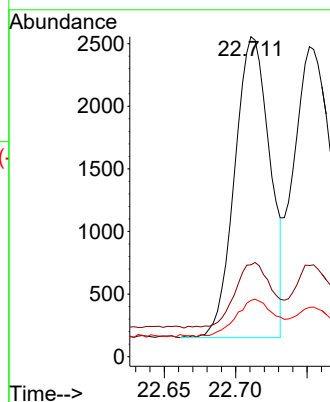
Tgt Ion:252 Resp: 4122

Ion Ratio Lower Upper

252 100

253 28.7 24.9 37.3

125 17.6 12.9 19.3



#38

Benzo(k)fluoranthene

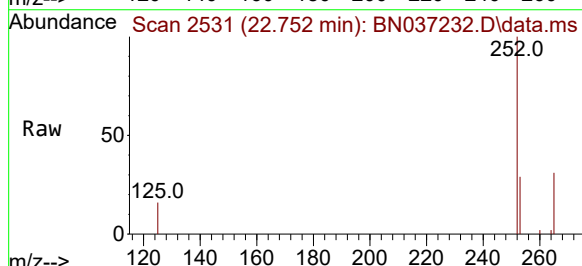
Concen: 0.363 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47



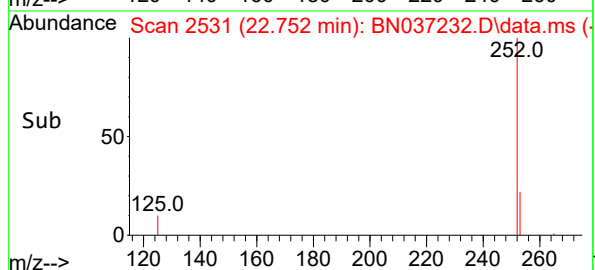
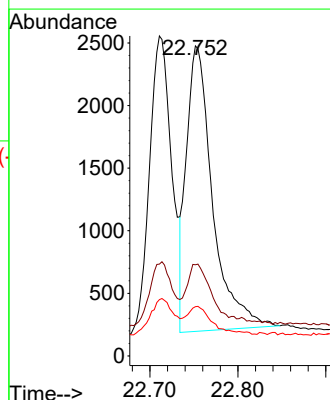
Tgt Ion:252 Resp: 4721

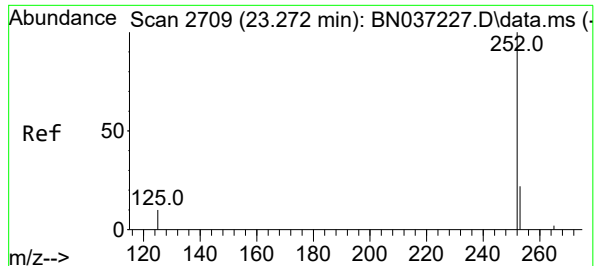
Ion Ratio Lower Upper

252 100

253 29.4 24.6 37.0

125 15.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

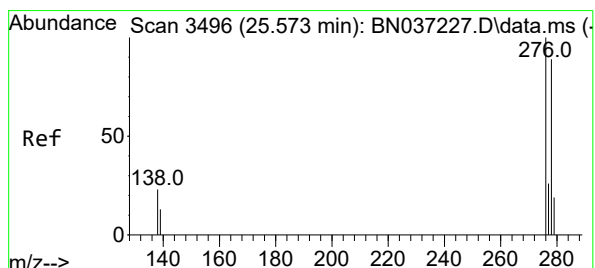
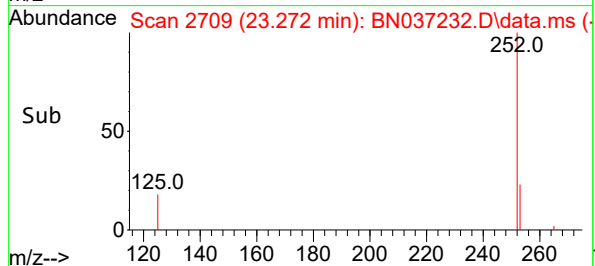
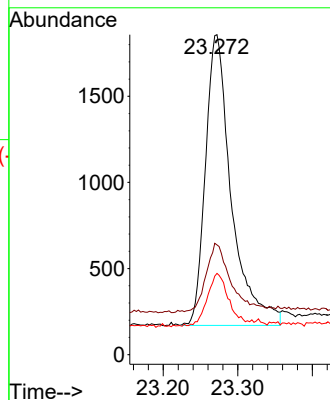
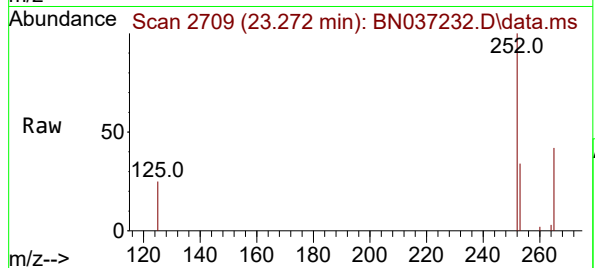
Tgt Ion:252 Resp: 4086

Ion Ratio Lower Upper

252 100

253 34.3 29.4 44.2

125 25.4 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

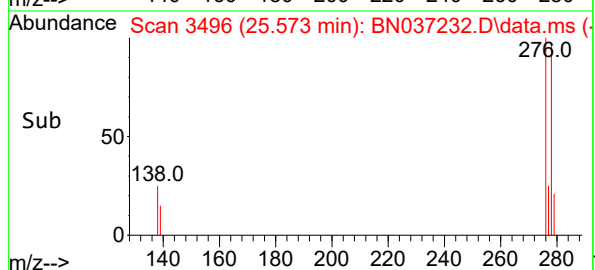
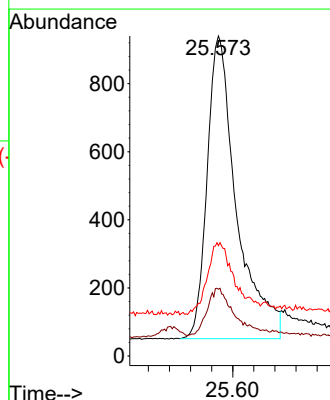
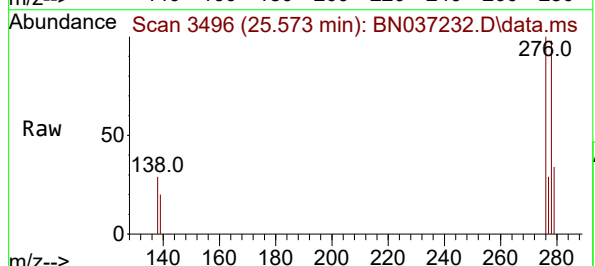
Tgt Ion:278 Resp: 3443

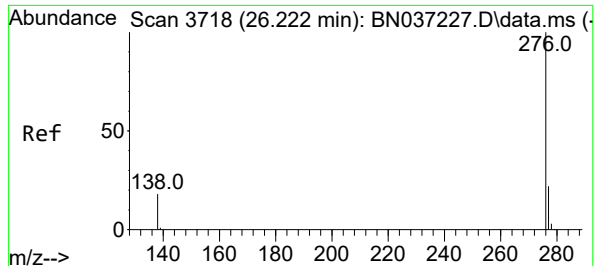
Ion Ratio Lower Upper

278 100

139 20.9 17.8 26.6

279 34.5 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037232.D

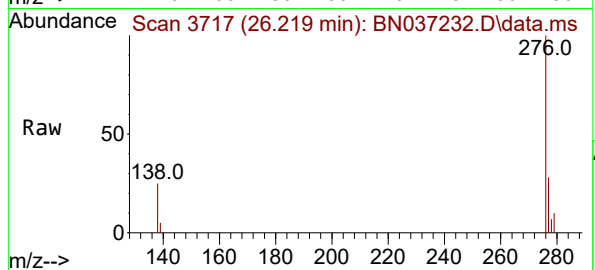
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



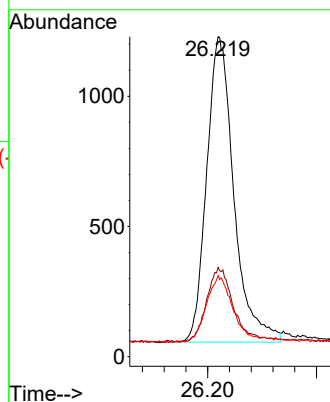
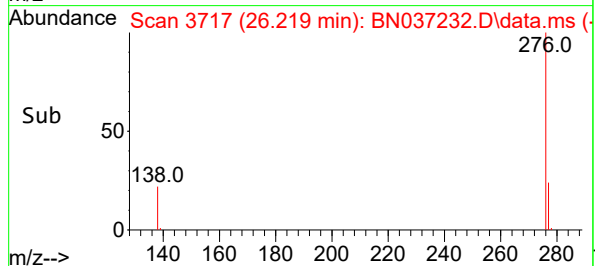
Tgt Ion:276 Resp: 4068

Ion Ratio Lower Upper

276 100

277 27.9 22.0 33.0

138 25.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	154#	0.00
2	1,4-Dioxane	0.549	0.551	-0.4	162#	0.00
3	n-Nitrosodimethylamine	1.250	1.137	9.0	137	0.00
4 S	2-Fluorophenol	0.982	0.864	12.0	142	0.00
5 S	Phenol-d6	1.035	0.931	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.927	1.062	-14.6	188#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	153#	-0.01
8 S	Nitrobenzene-d5	0.395	0.406	-2.8	161#	0.00
9	Naphthalene	1.158	1.119	3.4	151#	0.00
10	Hexachlorobutadiene	0.282	0.269	4.6	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.533	0.7	146	0.00
12	2-Methylnaphthalene	0.704	0.627	10.9	136	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.166	0.128	22.9	110	0.00
15 S	2-Fluorobiphenyl	1.681	1.735	-3.2	150	0.00
16	Acenaphthylene	1.960	2.002	-2.1	157#	0.00
17	Acenaphthene	1.265	1.195	5.5	142	0.00
18	Fluorene	1.625	1.499	7.8	138	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.072	21.7	155#	0.00
21	4-Bromophenyl-phenylether	0.261	0.240	8.0	139	0.00
22	Hexachlorobenzene	0.302	0.287	5.0	130	0.00
23	Atrazine	0.232	0.222	4.3	141	-0.01
24	Pentachlorophenol	0.148	0.120	18.9	136	0.00
25	Phenanthrene	1.269	1.209	4.7	144	0.00
26	Anthracene	1.161	1.093	5.9	143	0.00
27 SURR	Fluoranthene-d10	1.046	0.965	7.7	130	0.00
28	Fluoranthene	1.485	1.315	11.4	132	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	141	0.00
30	Pyrene	1.881	1.841	2.1	133	0.00
31 S	Terphenyl-d14	0.904	0.942	-4.2	141	0.00
32	Benzo(a)anthracene	1.351	1.295	4.1	149	0.00
33	Chrysene	1.683	1.641	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.937	6.9	129	0.00
35 I	Perylene-d12	1.000	1.000	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.569	2.7	149	0.00
37	Benzo(b)fluoranthene	1.463	1.340	8.4	139	0.00
38	Benzo(k)fluoranthene	1.689	1.535	9.1	135	0.00
39 C	Benzo(a)pyrene	1.316	1.328	-0.9	154#	0.00
40	Dibenzo(a,h)anthracene	1.227	1.119	8.8	153#	0.00
41	Benzo(g,h,i)perylene	1.496	1.322	11.6	131	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	154	0.00
2	1,4-Dioxane	0.400	0.402	-0.5	162	0.00
3	n-Nitrosodimethylamine	0.400	0.364	9.0	137	0.00
4 S	2-Fluorophenol	0.400	0.352	12.0	142	0.00
5 S	Phenol-d6	0.400	0.360	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.400	0.458	-14.5	188	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	153	-0.01
8 S	Nitrobenzene-d5	0.400	0.410	-2.5	161	0.00
9	Naphthalene	0.400	0.386	3.5	151	0.00
10	Hexachlorobutadiene	0.400	0.382	4.5	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	146	0.00
12	2-Methylnaphthalene	0.400	0.356	11.0	136	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.400	0.308	23.0	110	0.00
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	150	0.00
16	Acenaphthylene	0.400	0.409	-2.2	157	0.00
17	Acenaphthene	0.400	0.378	5.5	142	0.00
18	Fluorene	0.400	0.369	7.8	138	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.392	2.0	155	0.00
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	139	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	130	0.00
23	Atrazine	0.400	0.383	4.3	141	-0.01
24	Pentachlorophenol	0.400	0.323	19.3	136	0.00
25	Phenanthrene	0.400	0.381	4.8	144	0.00
26	Anthracene	0.400	0.376	6.0	143	0.00
27 SURR	Fluoranthene-d10	0.400	0.369	7.8	130	0.00
28	Fluoranthene	0.400	0.354	11.5	132	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	141	0.00
30	Pyrene	0.400	0.392	2.0	133	0.00
31 S	Terphenyl-d14	0.400	0.417	-4.2	141	0.00
32	Benzo(a)anthracene	0.400	0.384	4.0	149	0.00
33	Chrysene	0.400	0.390	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.373	6.8	129	0.00
35 I	Perylene-d12	0.400	0.400	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	149	0.00
37	Benzo(b)fluoranthene	0.400	0.366	8.5	139	0.00
38	Benzo(k)fluoranthene	0.400	0.363	9.3	135	0.00
39 C	Benzo(a)pyrene	0.400	0.404	-1.0	154	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	153	0.00
41	Benzo(g,h,i)perylene	0.400	0.354	11.5	131	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/13/2025 23:55

Lab File ID: BN037240.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.559		4.1	20.0
Fluoranthene-d10	1.047	1.058		1.1	20.0
2-Fluorophenol	0.982	0.884		-10.0	20.0
Phenol-d6	1.035	0.970		-6.3	20.0
Nitrobenzene-d5	0.395	0.404		2.3	20.0
2-Fluorobiphenyl	1.681	1.759		4.6	20.0
2,4,6-Tribromophenol	0.166	0.171		3.0	20.0
Terphenyl-d14	0.904	0.889		-1.7	20.0
1,4-Dioxane	0.549	0.484		-11.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037240.D
 Acq On : 13 Jun 2025 23:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

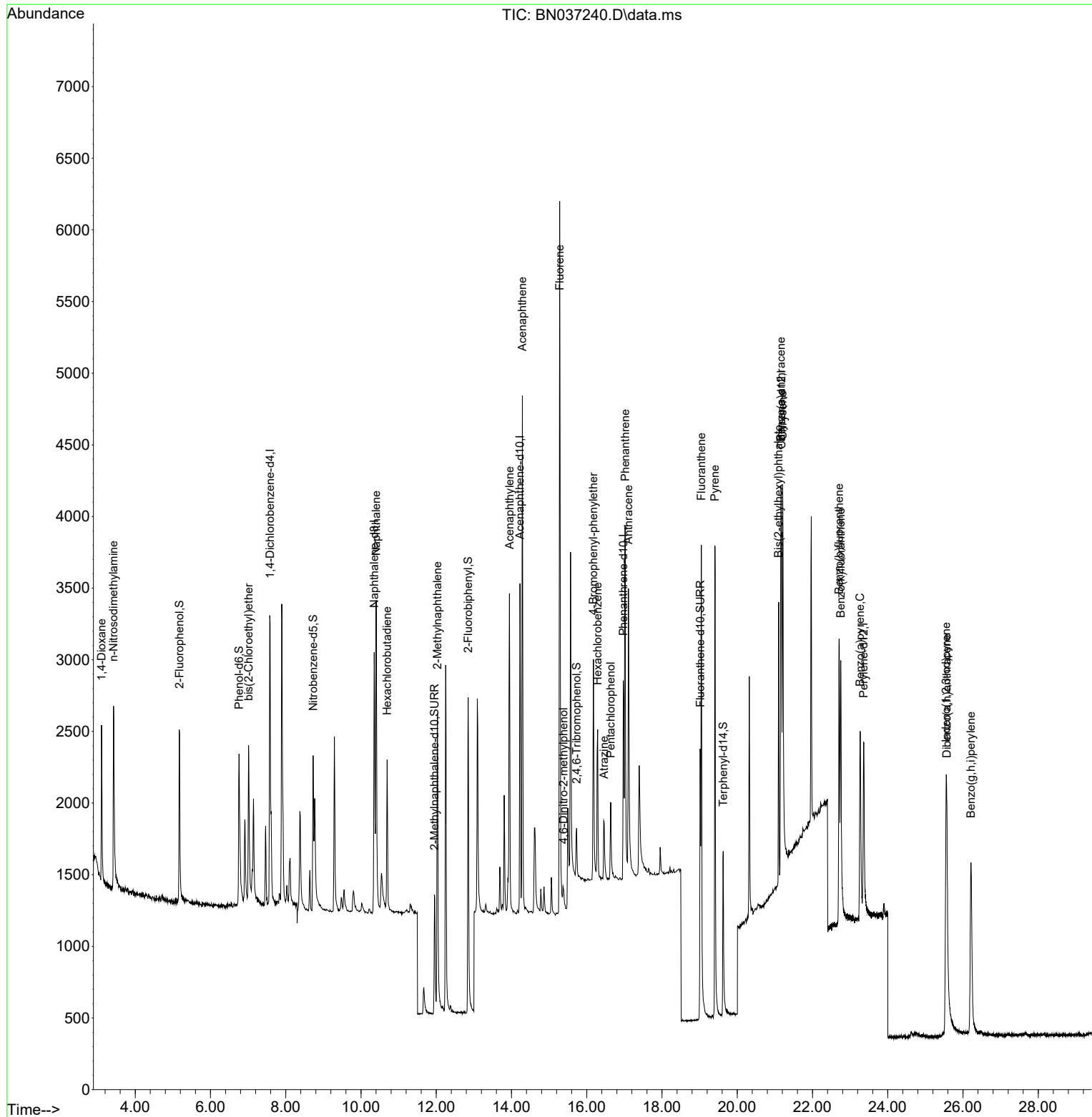
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1101	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2581	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1319	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2396	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1787	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1797	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	973	0.360	ng	0.00
5) Phenol-d6	6.759	99	1068	0.375	ng	0.00
8) Nitrobenzene-d5	8.728	82	1042	0.408	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1443	0.417	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	226	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.419	ng	0.00
27) Fluoranthene-d10	19.017	212	2535	0.404	ng	0.00
31) Terphenyl-d14	19.625	244	1588	0.393	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	533	0.353	ng	99
3) n-Nitrosodimethylamine	3.422	42	1393	0.405	ng	# 94
6) bis(2-Chloroethyl)ether	7.012	93	1005	0.394	ng	92
9) Naphthalene	10.404	128	2951	0.395	ng	98
10) Hexachlorobutadiene	10.693	225	755	0.415	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1743	0.384	ng	99
16) Acenaphthylene	13.946	152	2529	0.391	ng	98
17) Acenaphthene	14.288	154	1605	0.385	ng	98
18) Fluorene	15.282	166	2071	0.386	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	193	0.423	ng	93
21) 4-Bromophenyl-phenylether	16.177	248	591	0.379	ng	97
22) Hexachlorobenzene	16.289	284	711	0.393	ng	95
23) Atrazine	16.463	200	518	0.372	ng	97
24) Pentachlorophenol	16.636	266	337	0.380	ng	96
25) Phenanthrene	17.021	178	2895	0.381	ng	98
26) Anthracene	17.108	178	2630	0.378	ng	98
28) Fluoranthene	19.045	202	3316	0.373	ng	98
30) Pyrene	19.407	202	3339	0.397	ng	98
32) Benzo(a)anthracene	21.162	228	2395	0.397	ng	99
33) Chrysene	21.207	228	2954	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1731	0.385	ng	100
36) Indeno(1,2,3-cd)pyrene	25.550	276	2982	0.412	ng	98
37) Benzo(b)fluoranthene	22.708	252	2552	0.388	ng	97
38) Benzo(k)fluoranthene	22.749	252	2779	0.366	ng	96
39) Benzo(a)pyrene	23.266	252	2340	0.396	ng	# 94
40) Dibenzo(a,h)anthracene	25.570	278	2263	0.411	ng	98
41) Benzo(g,h,i)perylene	26.210	276	2727	0.406	ng	99

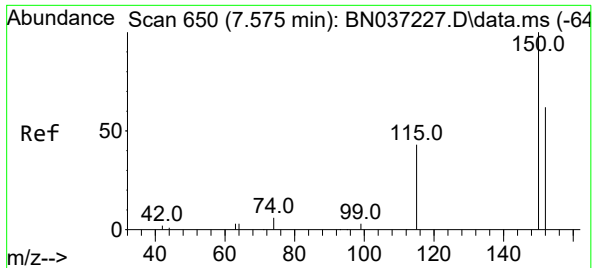
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

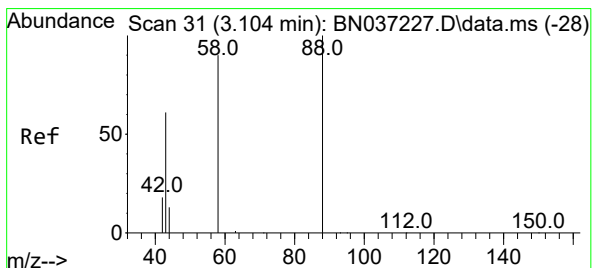
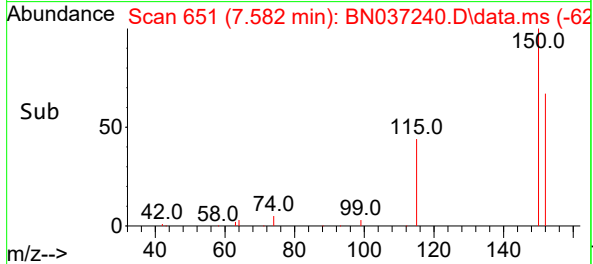
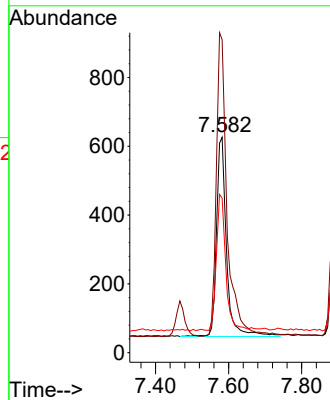
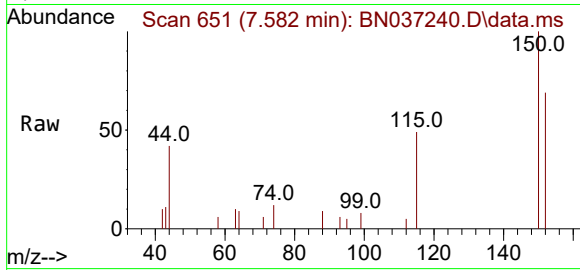




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

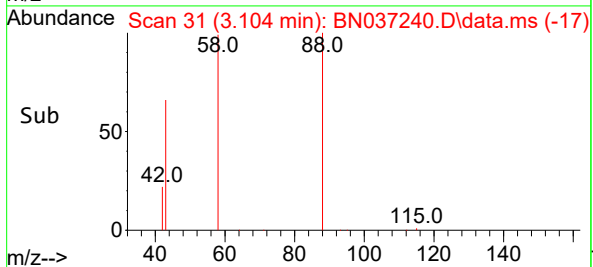
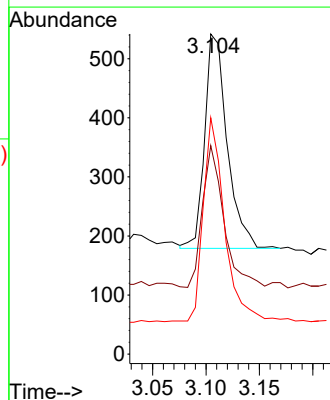
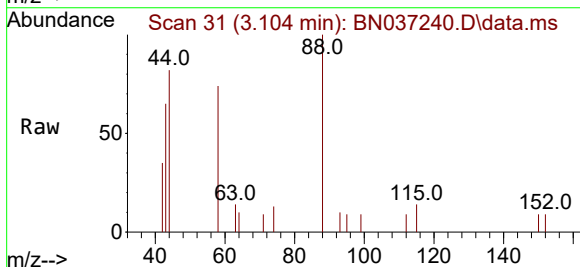
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1101
Ion Ratio Lower Upper
152 100
150 145.4 125.2 187.8
115 71.7 58.4 87.6

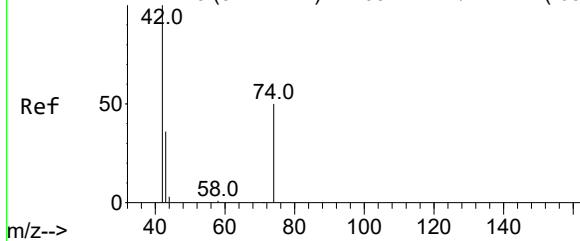


#2
1,4-Dioxane
Concen: 0.353 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion: 88 Resp: 533
Ion Ratio Lower Upper
88 100
43 65.1 52.6 79.0
58 90.2 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.405 ng

RT: 3.422 min Scan# 71

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1393

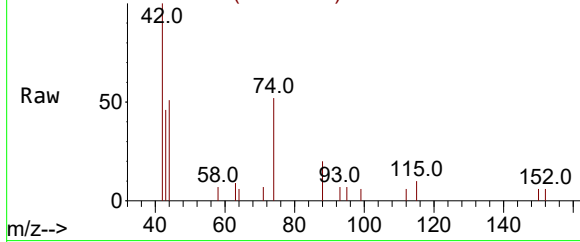
Ion Ratio Lower Upper

42 100

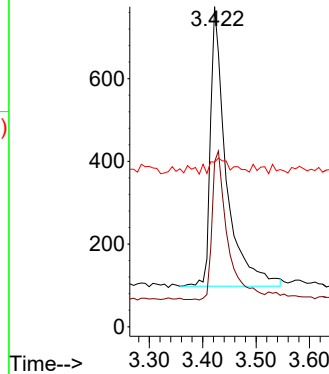
74 51.8 44.6 66.8

44 8.1 3.5 5.3#

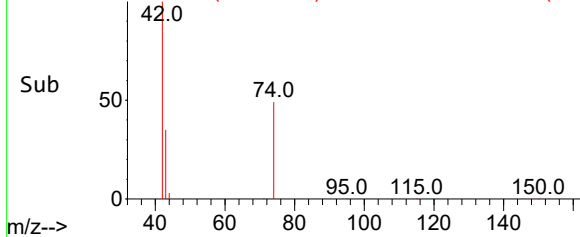
Abundance Scan 75 (3.422 min): BN037240.D\data.ms



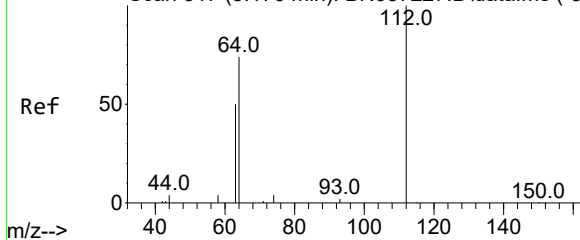
Abundance



Abundance Scan 75 (3.422 min): BN037240.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.360 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Tgt Ion: 112 Resp: 973

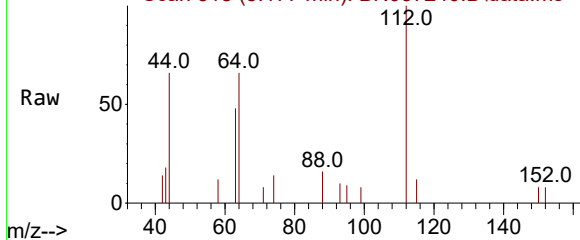
Ion Ratio Lower Upper

112 100

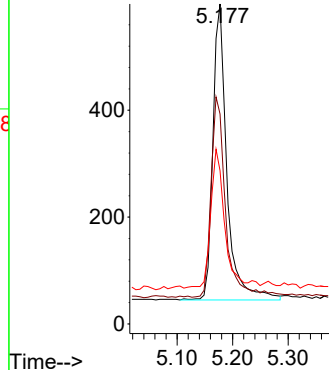
64 71.5 57.2 85.8

63 46.1 39.8 59.6

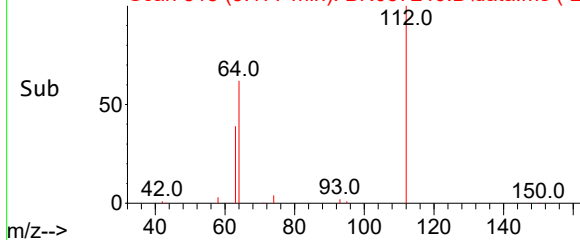
Abundance Scan 318 (5.177 min): BN037240.D\data.ms

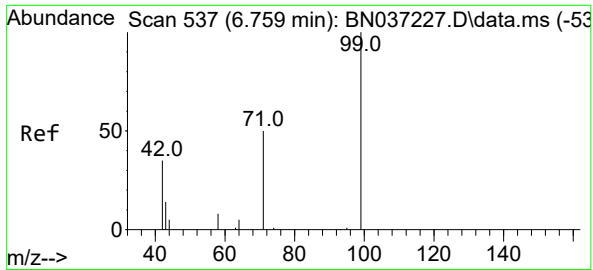


Abundance



Abundance Scan 318 (5.177 min): BN037240.D\data.ms (-28)

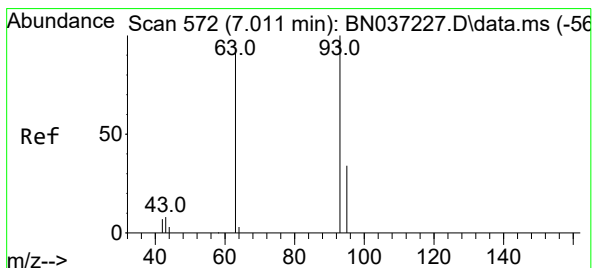
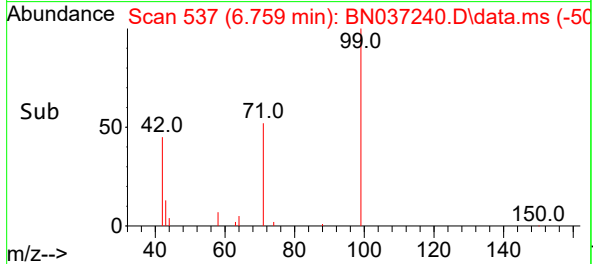
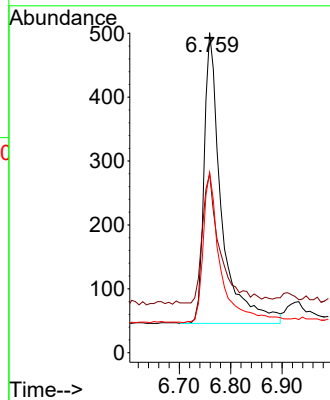
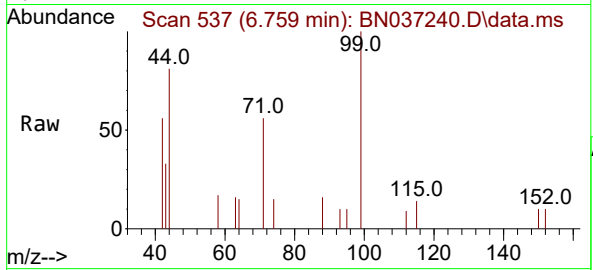




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

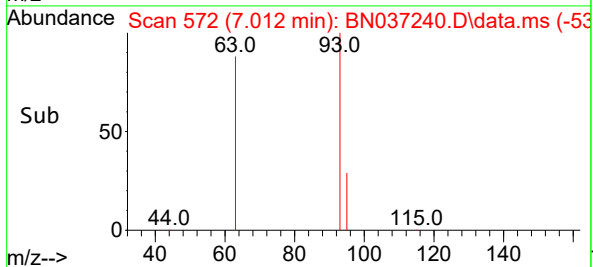
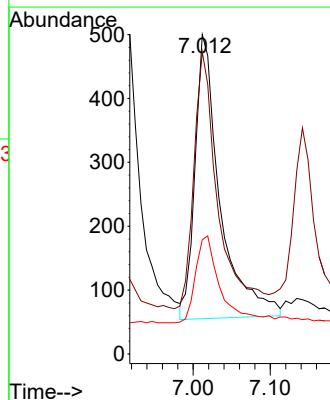
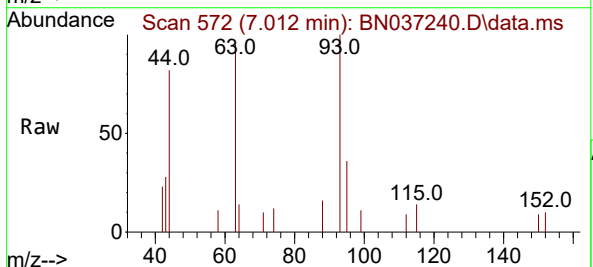
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

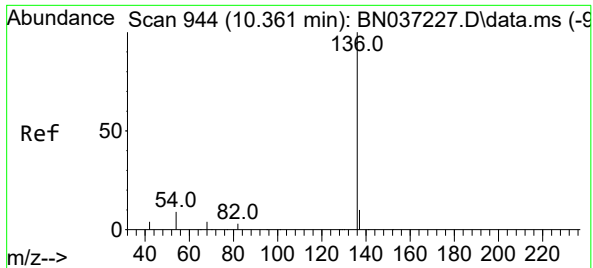
Tgt Ion	Ratio	Lower	Upper
99	100		
42	45.7	36.2	54.4
71	52.2	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5

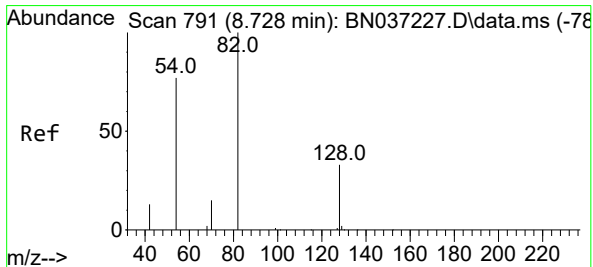
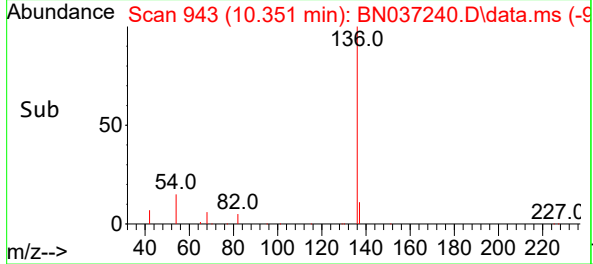
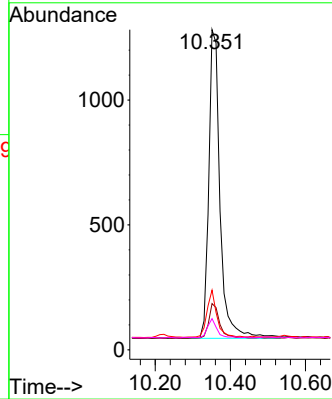
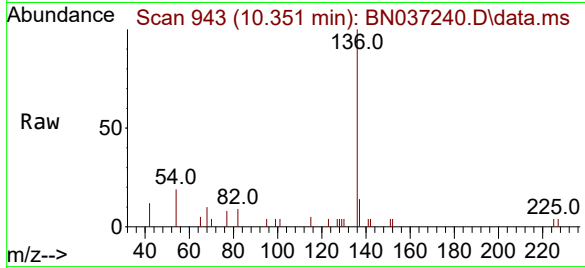




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

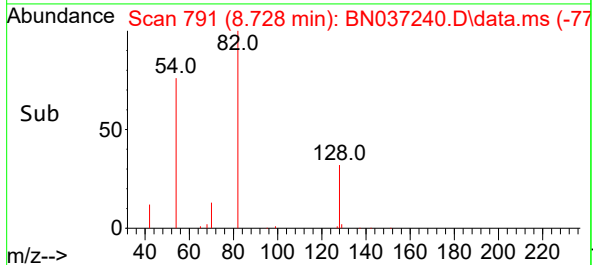
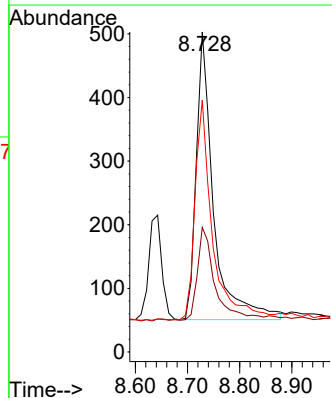
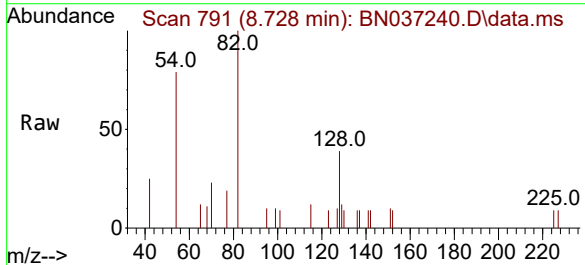
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

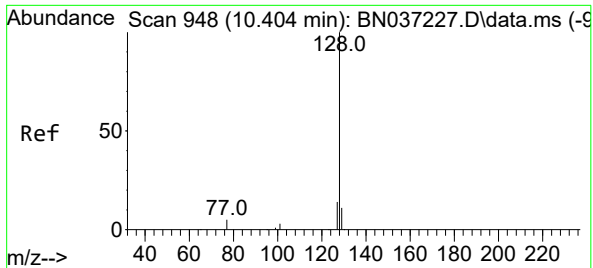
Tgt Ion:	136	Resp:	2581
Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.6	15.8
54	18.6	9.2	13.8#
68	9.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	82	Resp:	1042
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	78.7	63.3	94.9



#9
Naphthalene

Concen: 0.395 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

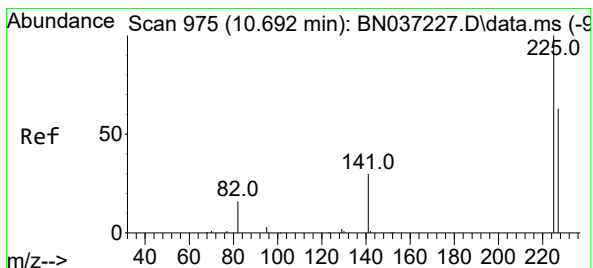
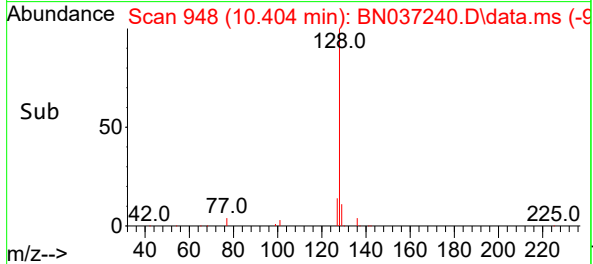
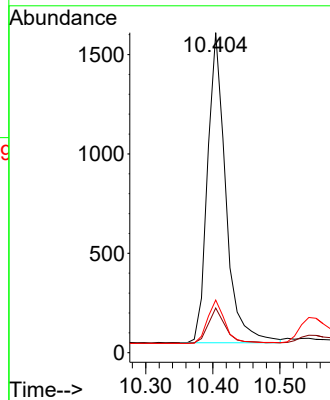
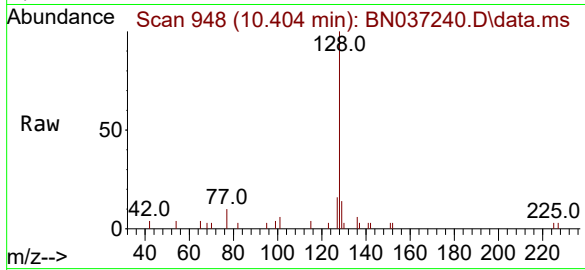
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	128	Resp:	2951
Ion	Ratio	Lower	Upper
128	100		
129	14.0	10.7	16.1
127	16.5	12.6	19.0



#10

Hexachlorobutadiene

Concen: 0.415 ng

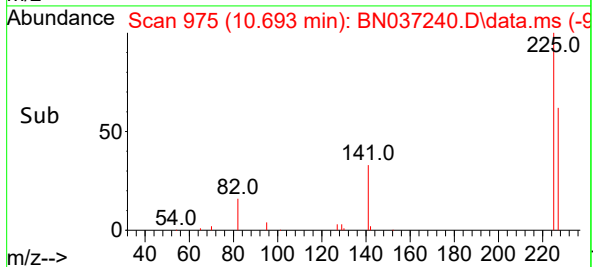
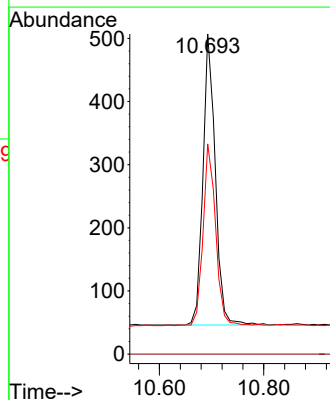
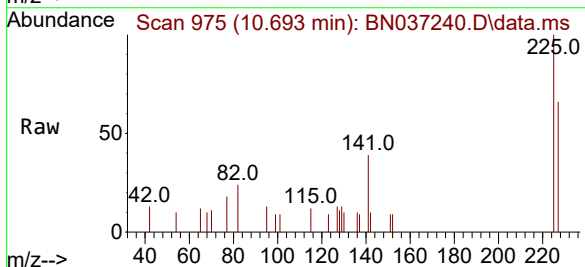
RT: 10.693 min Scan# 975

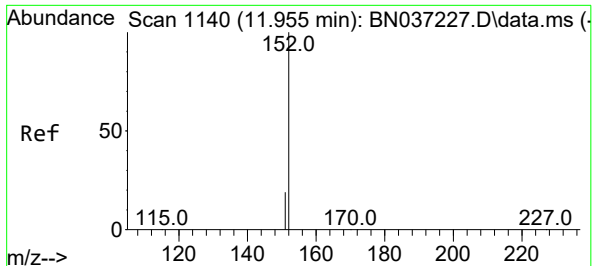
Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Tgt Ion:	225	Resp:	755
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8

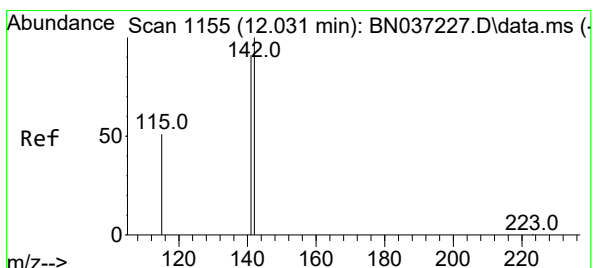
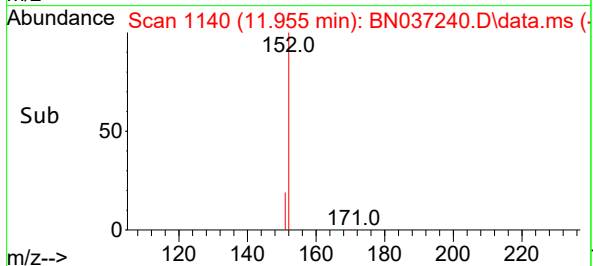
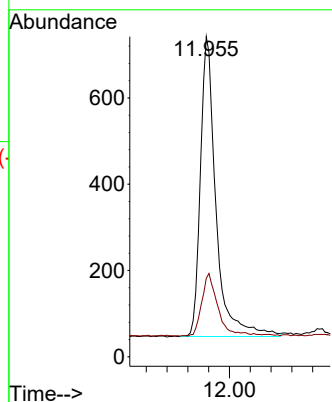
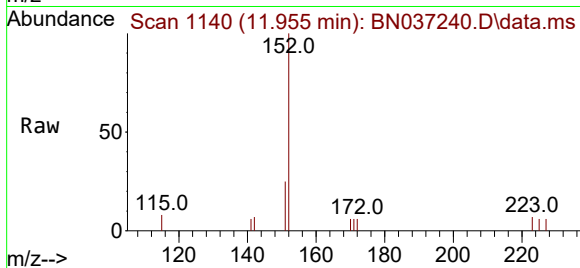




#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

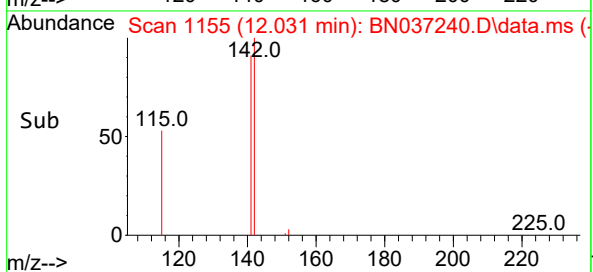
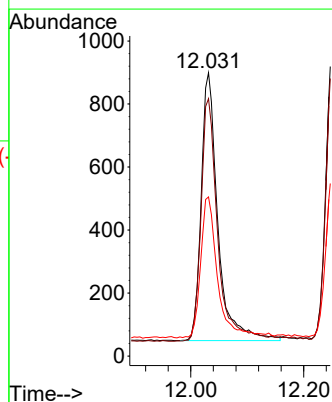
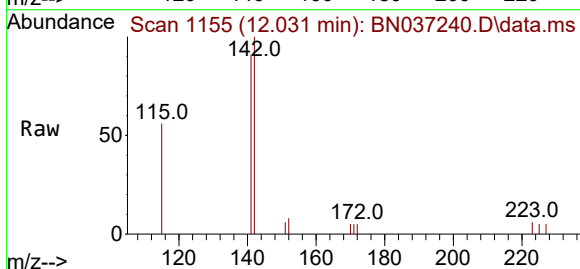
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

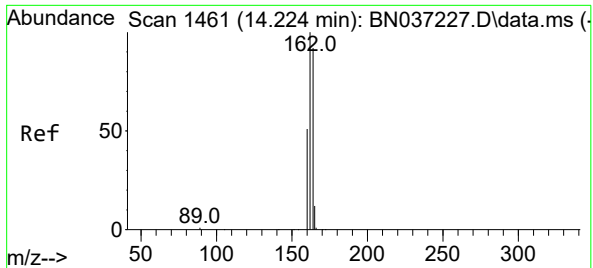
Tgt Ion:152 Resp: 1443
Ion Ratio Lower Upper
152 100
151 20.9 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:142 Resp: 1743
Ion Ratio Lower Upper
142 100
141 90.9 73.0 109.6
115 56.2 43.3 64.9

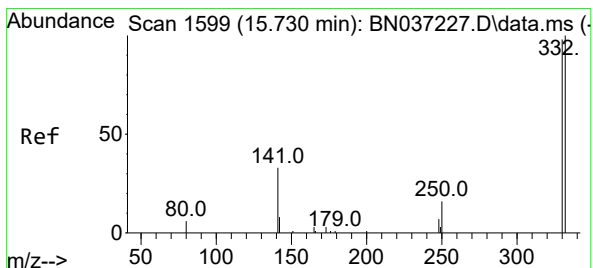
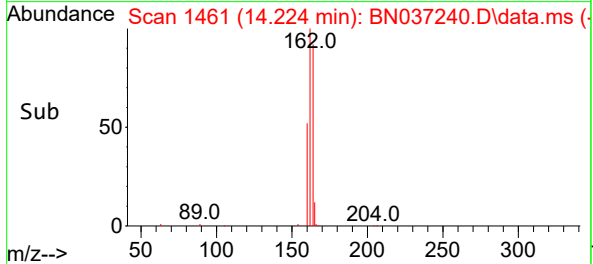
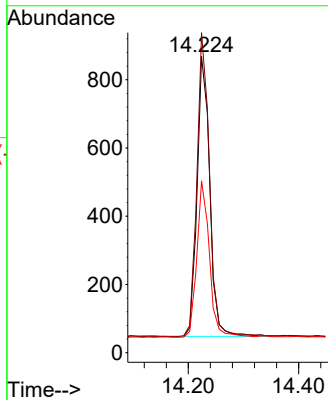
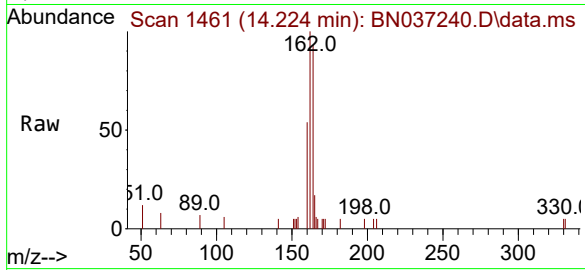




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

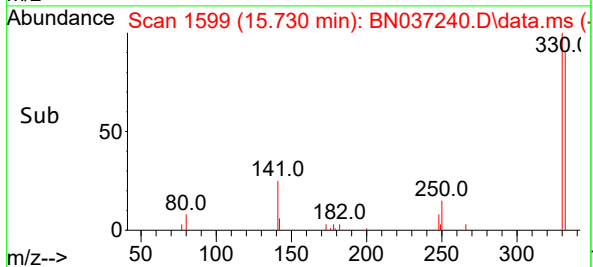
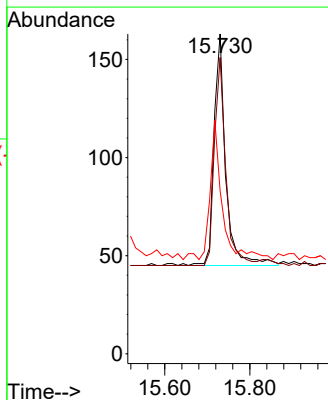
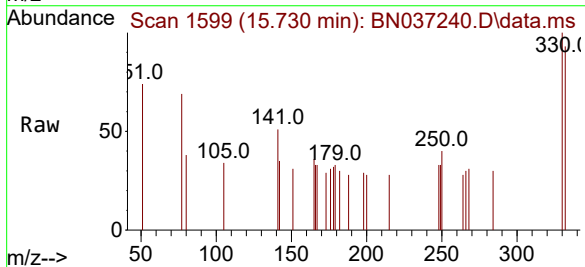
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

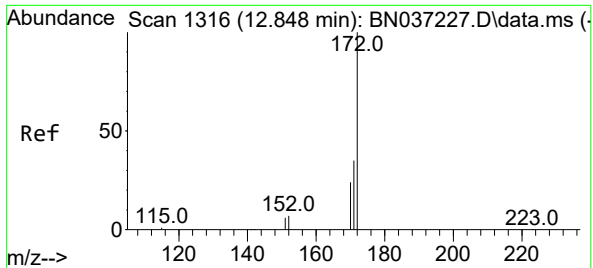
Tgt Ion:164 Resp: 1319
Ion Ratio Lower Upper
164 100
162 108.1 86.7 130.1
160 58.1 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:330 Resp: 226
Ion Ratio Lower Upper
330 100
332 86.7 74.9 112.3
141 62.4 45.1 67.7

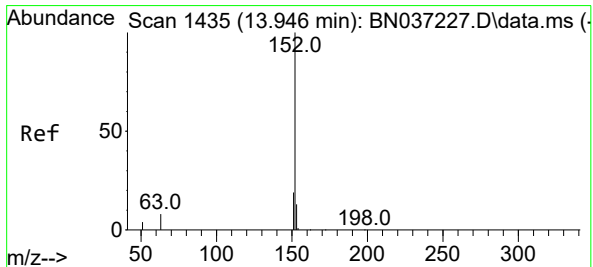
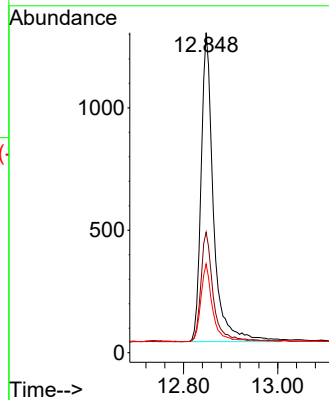
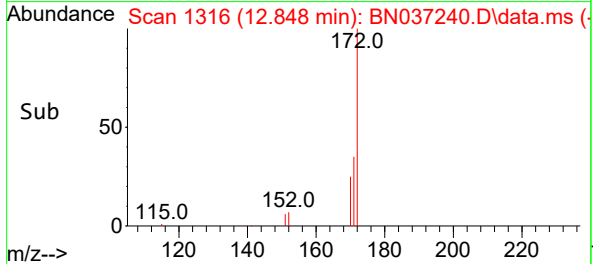
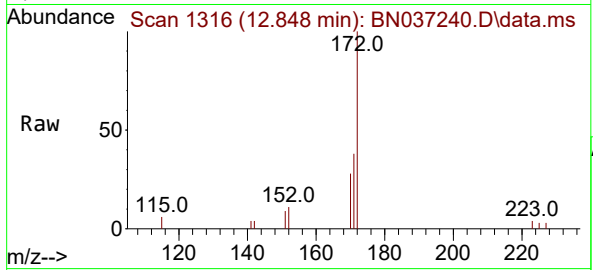




#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

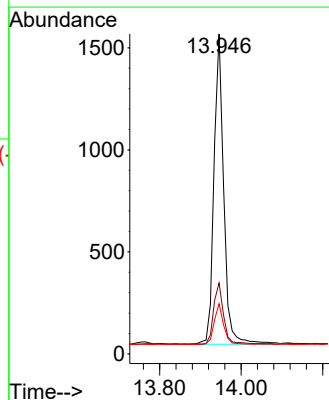
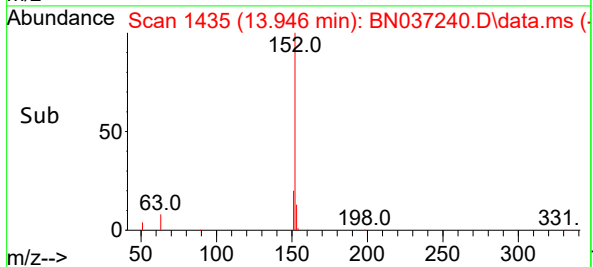
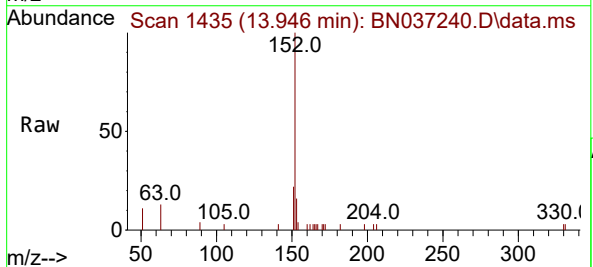
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

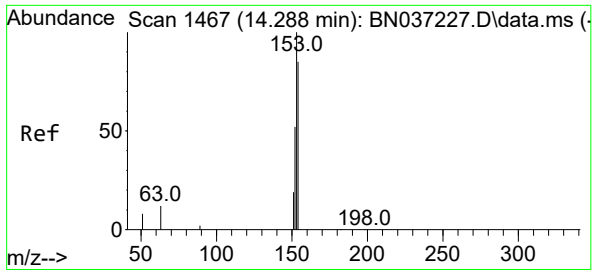
Tgt Ion:172 Resp: 2320
Ion Ratio Lower Upper
172 100
171 37.6 29.8 44.8
170 27.8 21.1 31.7



#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:152 Resp: 2529
Ion Ratio Lower Upper
152 100
151 20.8 15.7 23.5
153 12.9 10.7 16.1

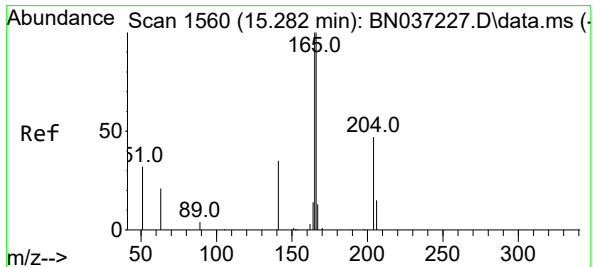
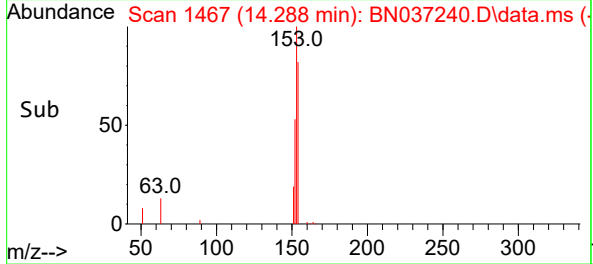
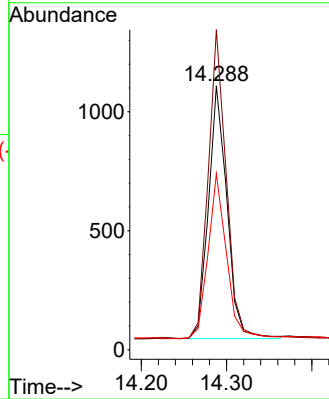
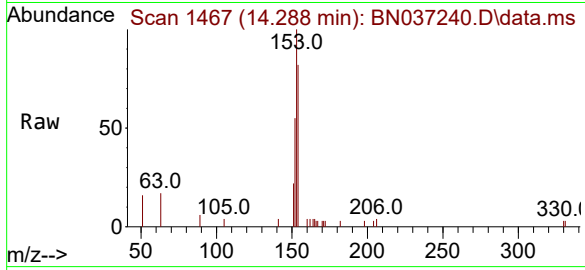




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

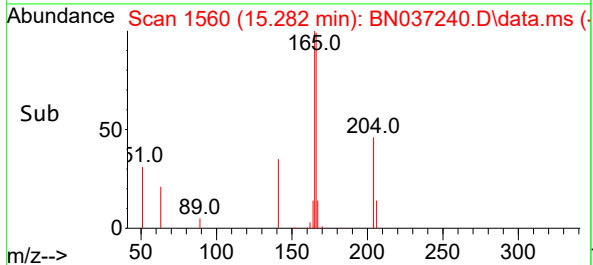
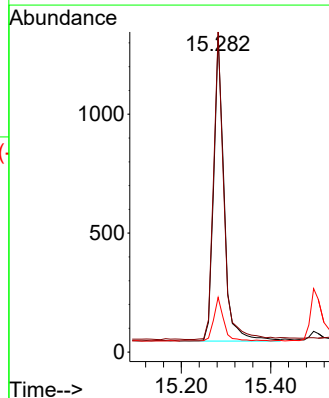
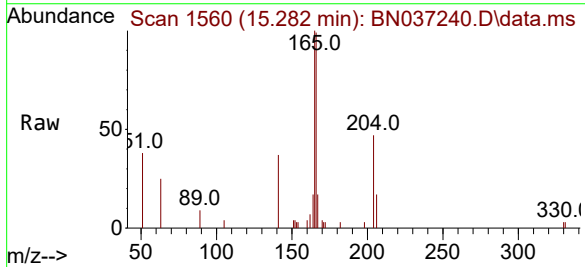
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

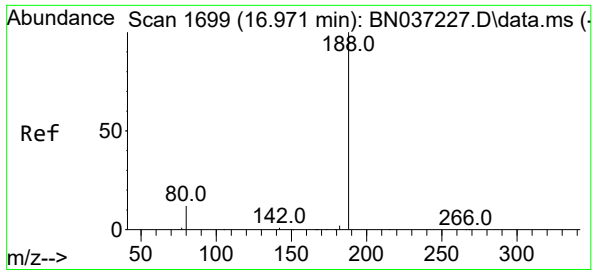
Tgt Ion:154 Resp: 1605
Ion Ratio Lower Upper
154 100
153 120.3 94.6 141.8
152 64.7 49.6 74.4



#18
Fluorene
Concen: 0.386 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:166 Resp: 2071
Ion Ratio Lower Upper
166 100
165 99.7 79.8 119.6
167 13.4 10.8 16.2

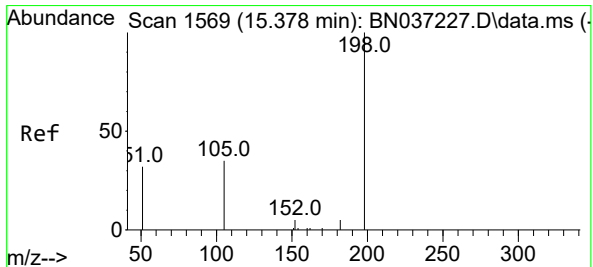
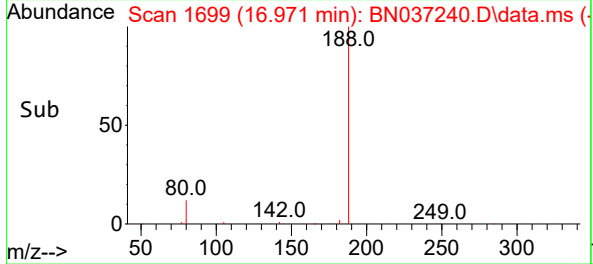
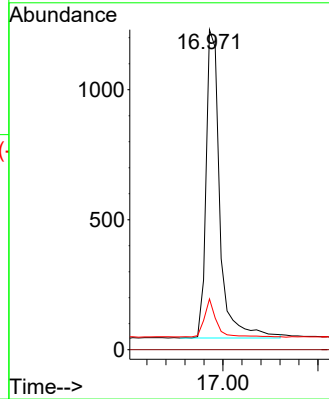
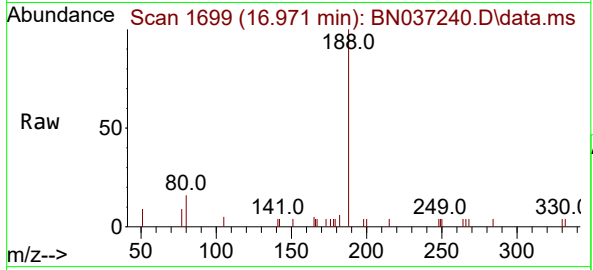




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

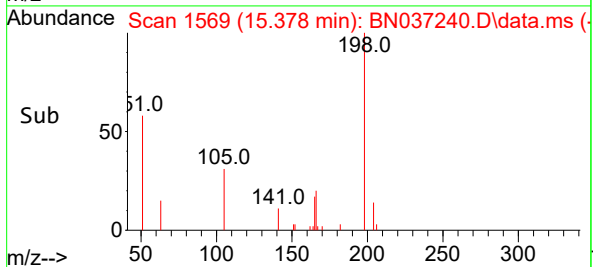
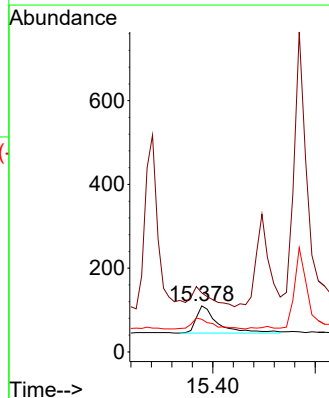
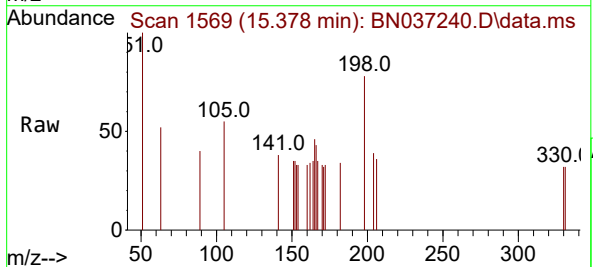
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

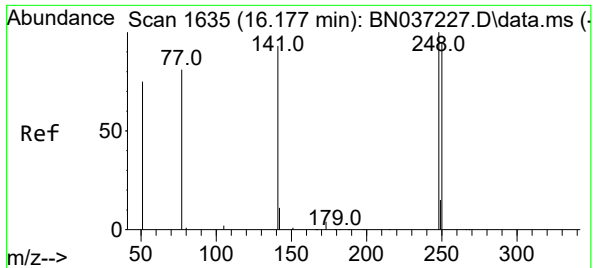
Tgt Ion:188 Resp: 2396
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.8 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:198 Resp: 193
Ion Ratio Lower Upper
198 100
51 128.2 111.2 166.8
105 70.9 54.0 81.0

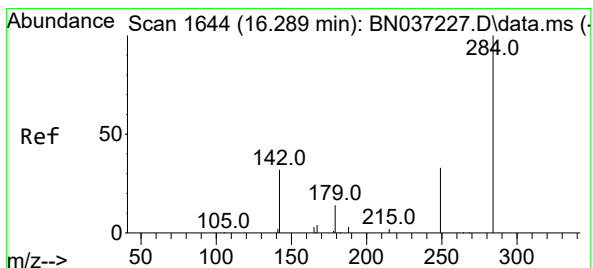
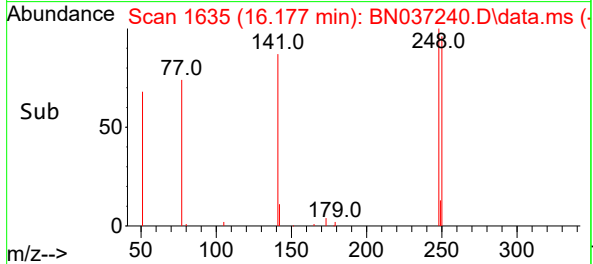
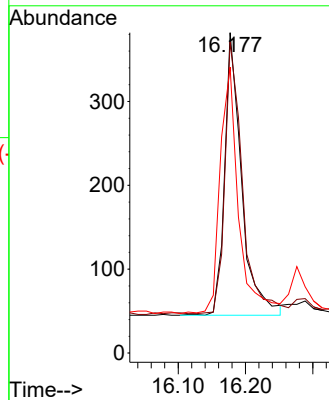
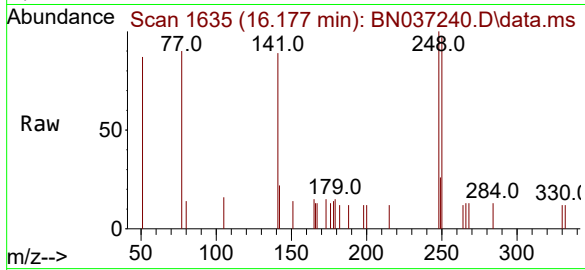




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

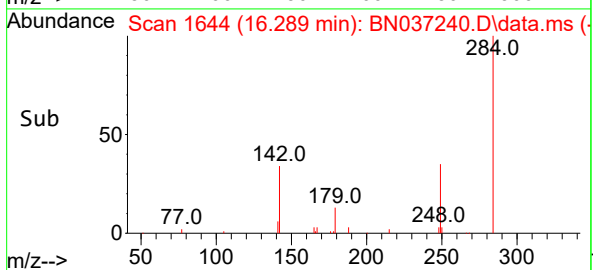
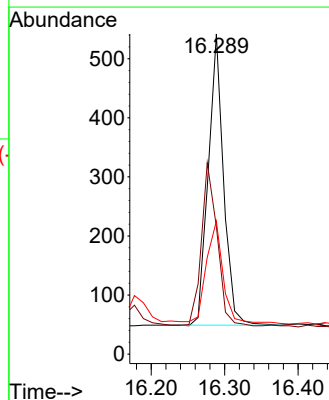
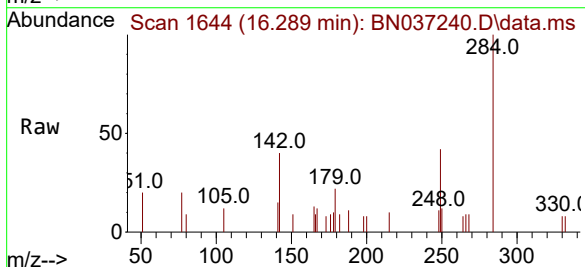
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

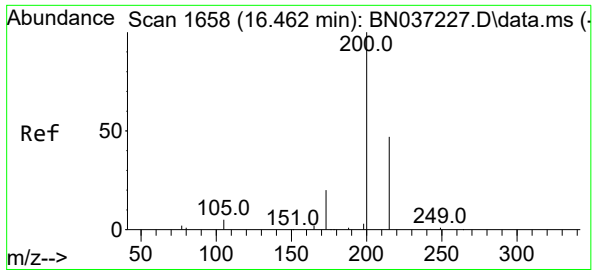
Tgt Ion:	248	Resp:	591
Ion	Ratio	Lower	Upper
248	100		
250	97.1	76.8	115.2
141	89.3	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	284	Resp:	711
Ion	Ratio	Lower	Upper
284	100		
142	57.4	43.8	65.6
249	39.7	28.4	42.6





#23

Atrazine

Concen: 0.372 ng

RT: 16.463 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

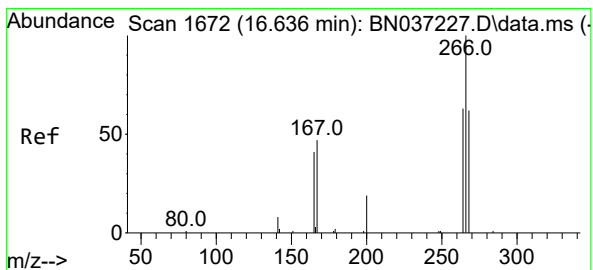
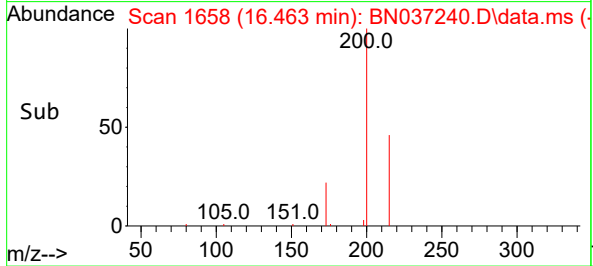
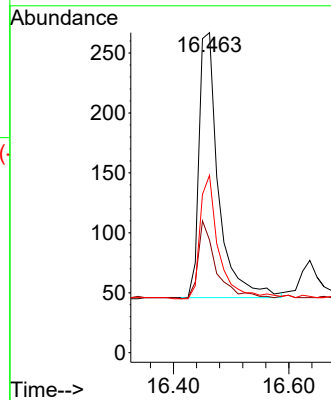
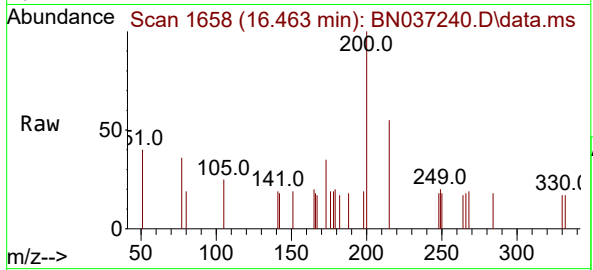
Tgt Ion:200 Resp: 518

Ion Ratio Lower Upper

200 100

173 35.2 25.1 37.7

215 55.4 43.7 65.5



#24

Pentachlorophenol

Concen: 0.380 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

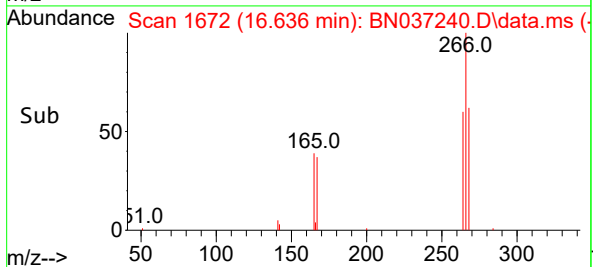
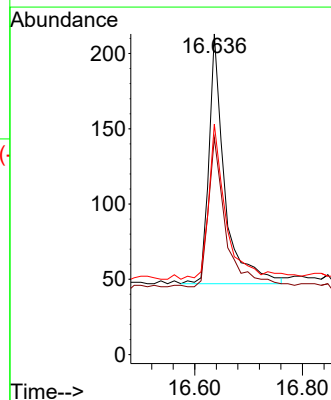
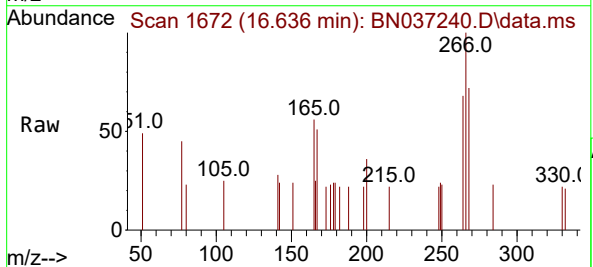
Tgt Ion:266 Resp: 337

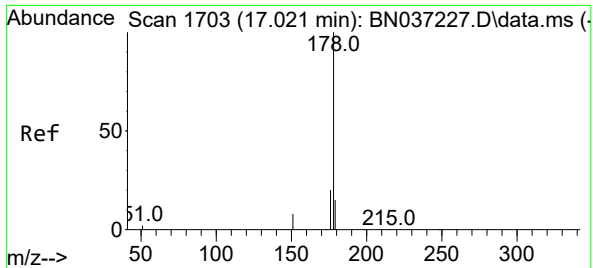
Ion Ratio Lower Upper

266 100

264 66.2 49.2 73.8

268 68.8 53.4 80.2

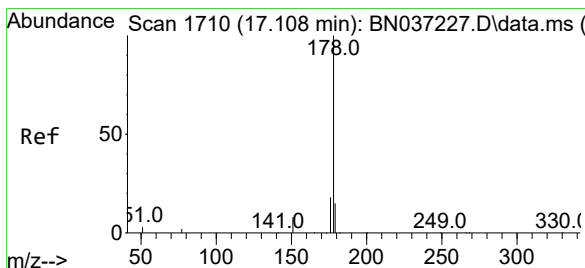
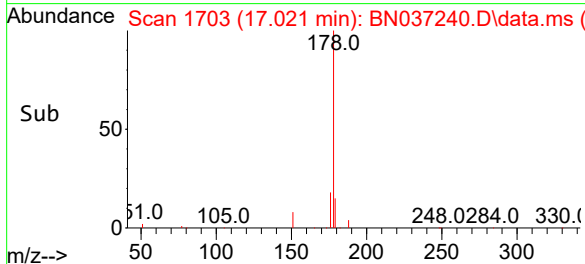
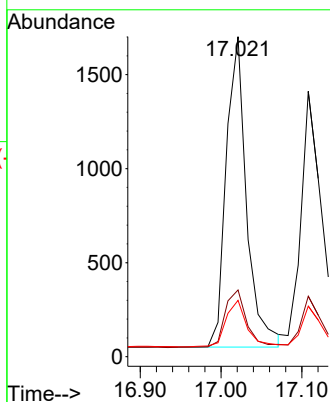
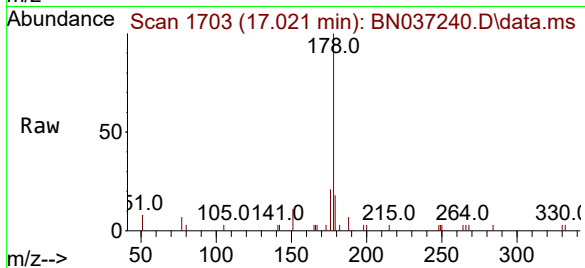




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

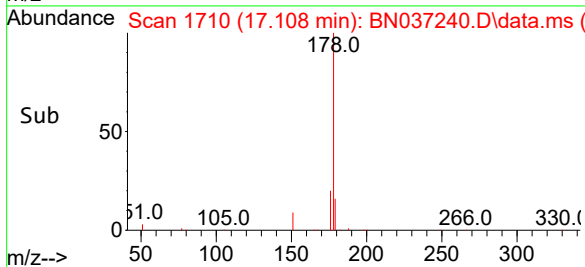
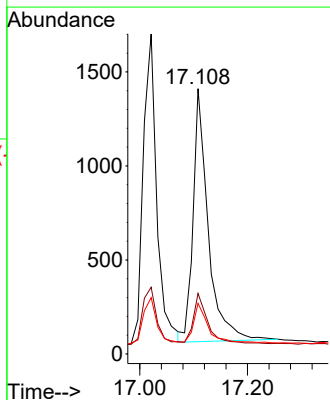
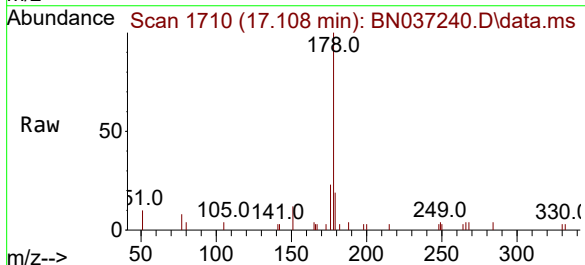
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

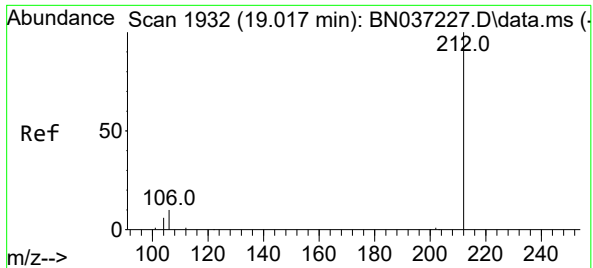
Tgt Ion:178 Resp: 2895
Ion Ratio Lower Upper
178 100
176 19.4 16.3 24.5
179 15.4 12.6 18.8



#26
Anthracene
Concen: 0.378 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:178 Resp: 2630
Ion Ratio Lower Upper
178 100
176 19.9 15.1 22.7
179 15.9 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.404 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

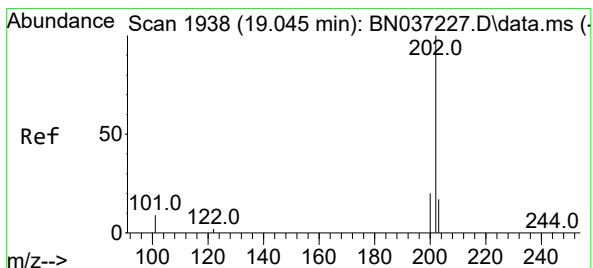
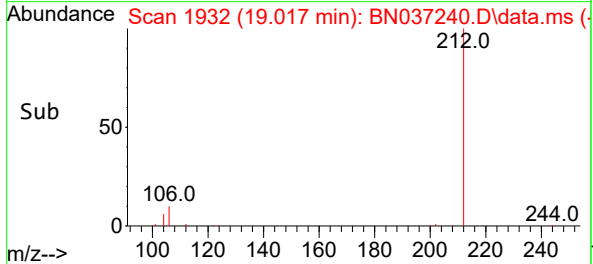
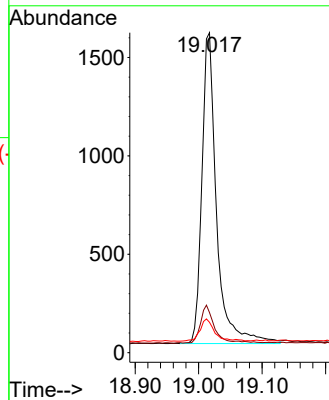
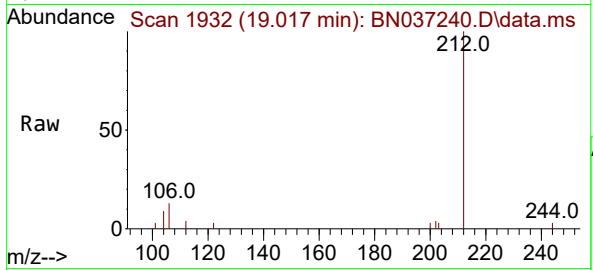
Tgt Ion:212 Resp: 2535

Ion Ratio Lower Upper

212 100

106 11.5 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

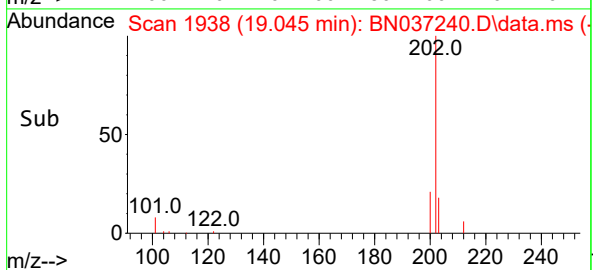
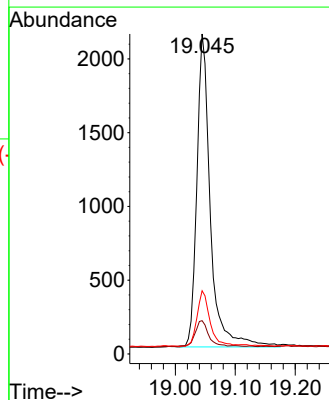
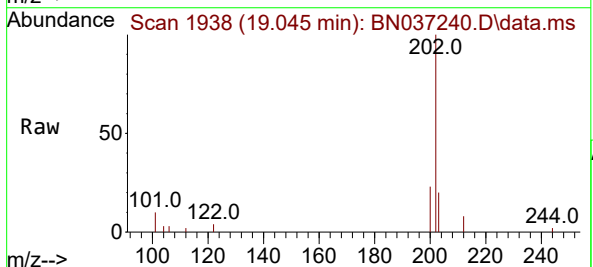
Tgt Ion:202 Resp: 3316

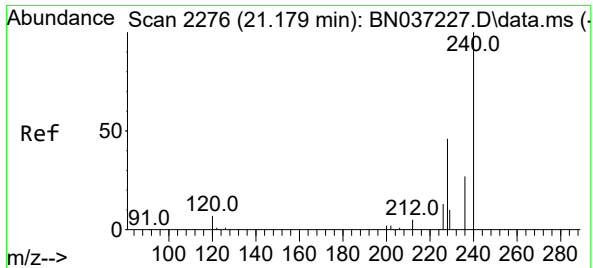
Ion Ratio Lower Upper

202 100

101 8.7 7.1 10.7

203 17.3 13.0 19.6

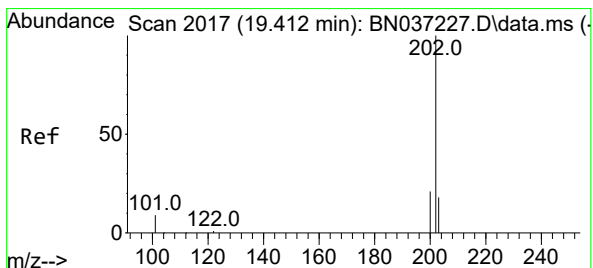
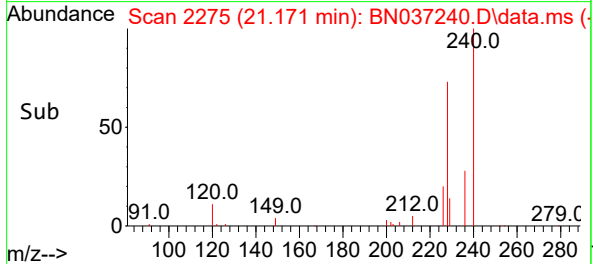
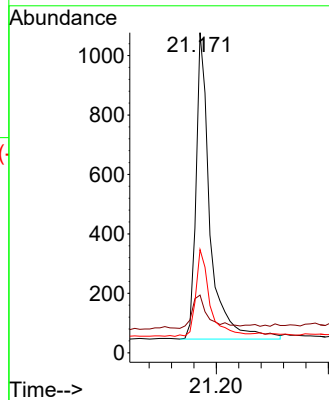
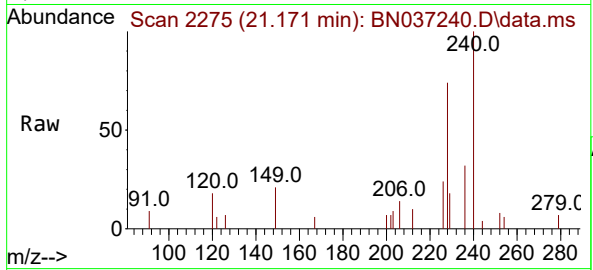




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

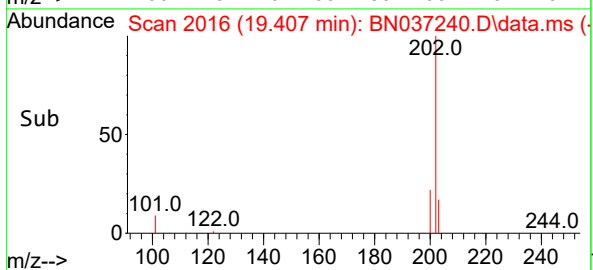
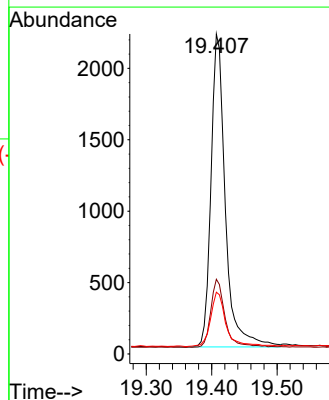
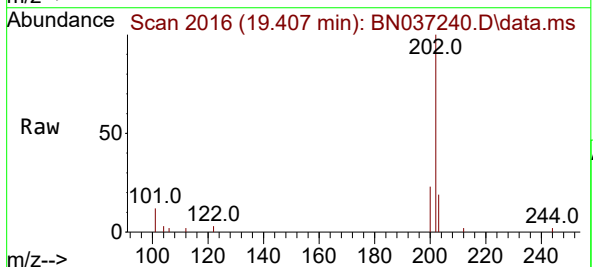
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

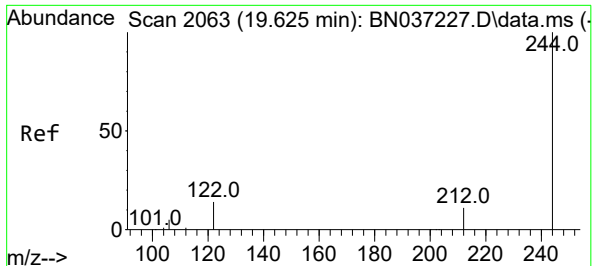
Tgt Ion:240 Resp: 1787
Ion Ratio Lower Upper
240 100
120 18.0 11.3 16.9#
236 32.2 24.4 36.6



#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:202 Resp: 3339
Ion Ratio Lower Upper
202 100
200 22.0 17.2 25.8
203 18.8 14.3 21.5

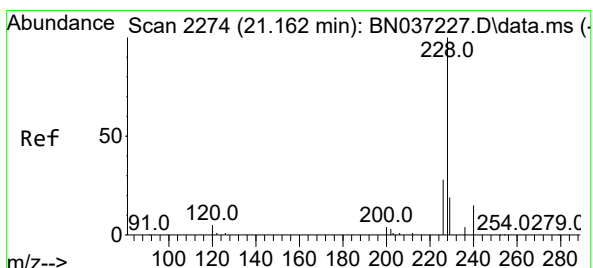
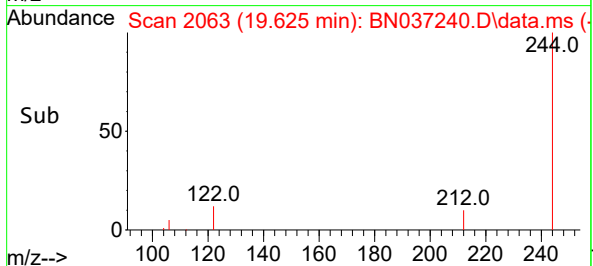
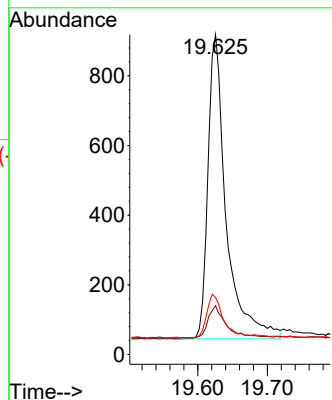
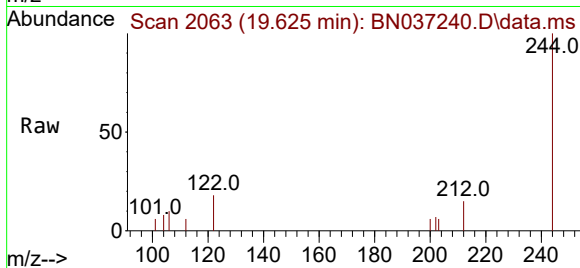




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

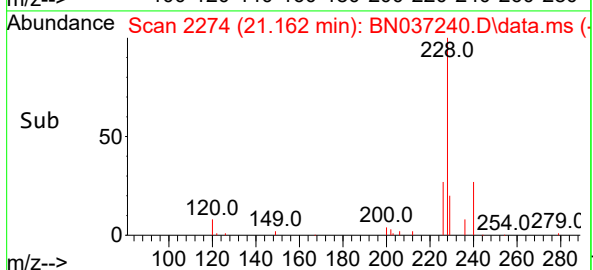
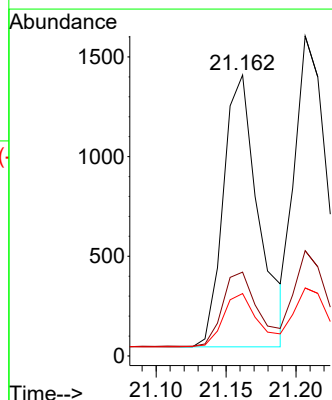
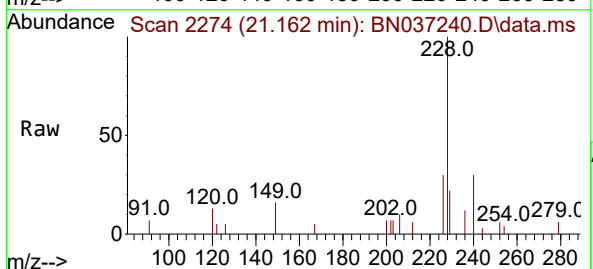
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

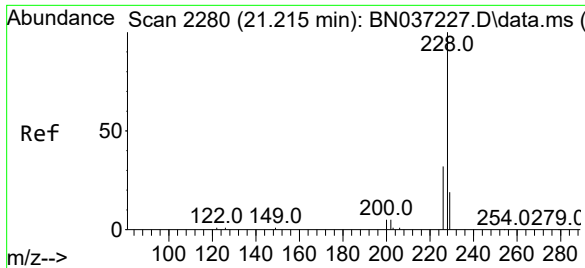
Tgt Ion:244	Resp:	1588
Ion Ratio	Lower	Upper
244	100	
212	15.3	12.2 18.2
122	17.8	14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.397 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:228	Resp:	2395
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.8 35.8
229	22.2	17.0 25.4





#33

Chrysene

Concen: 0.393 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

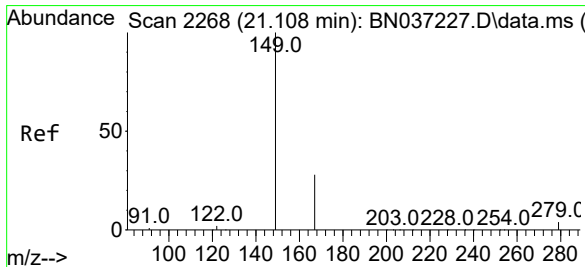
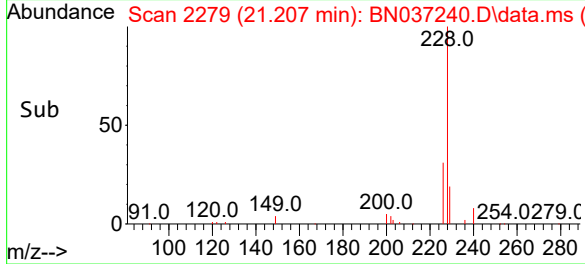
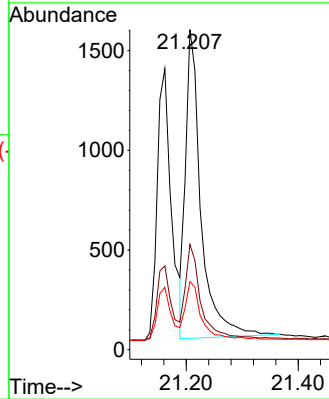
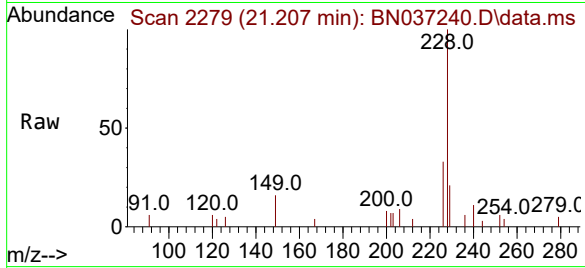
Tgt Ion:228 Resp: 2954

Ion Ratio Lower Upper

228 100

226 32.9 25.8 38.6

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.385 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

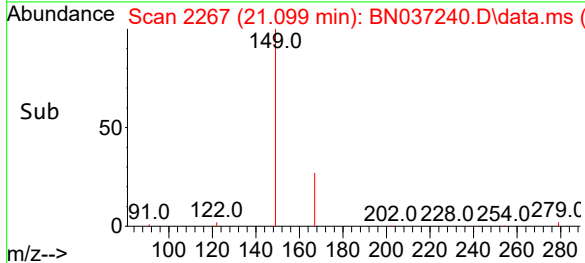
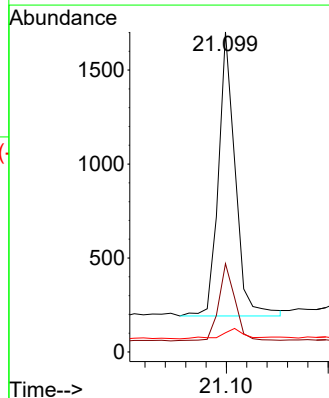
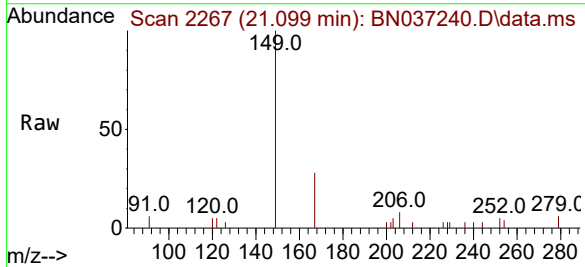
Tgt Ion:149 Resp: 1731

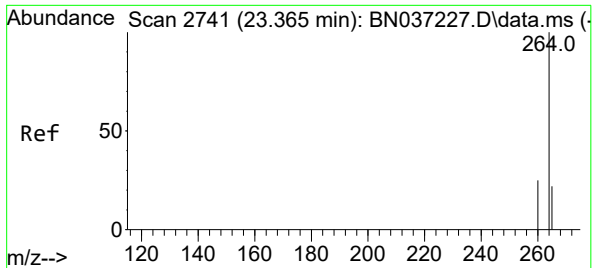
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.7 3.3 4.9

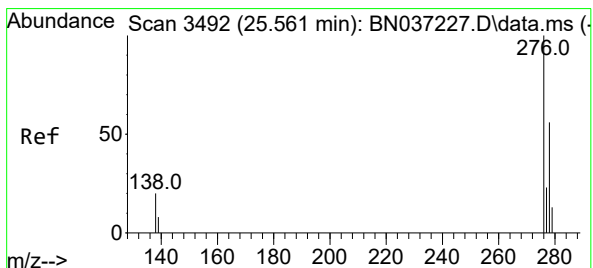
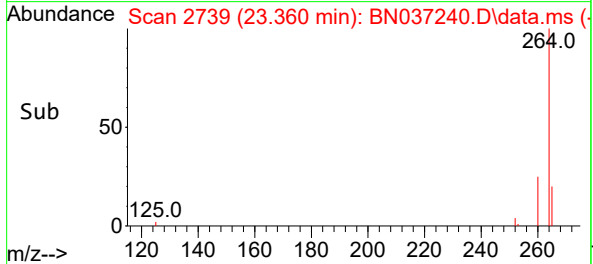
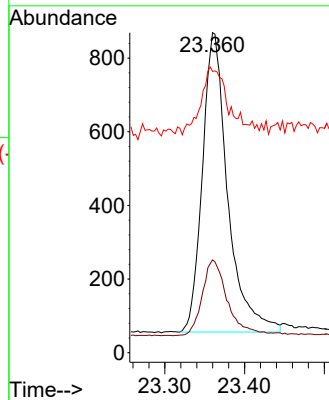
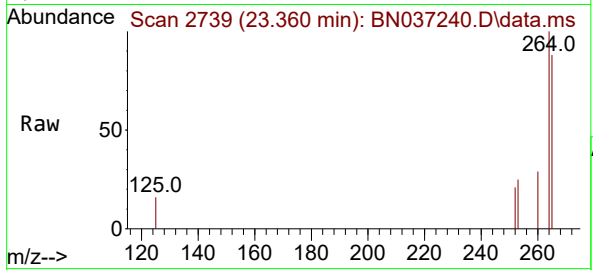




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

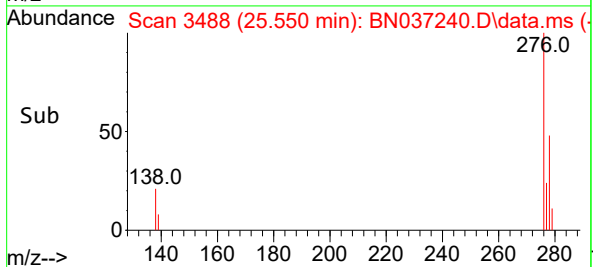
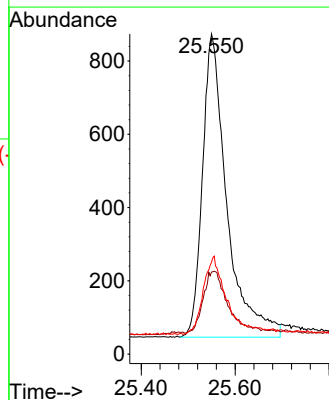
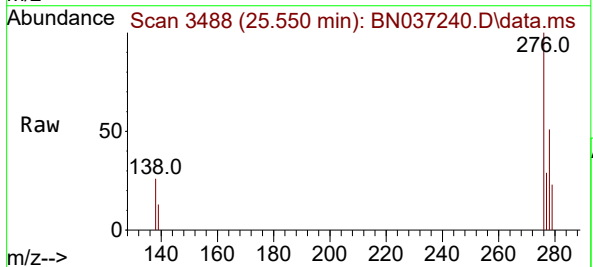
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

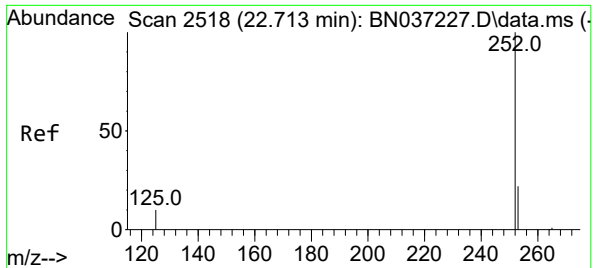
Tgt Ion:264 Resp: 1797
Ion Ratio Lower Upper
264 100
260 29.0 22.8 34.2
265 87.9 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.550 min Scan# 3488
Delta R.T. -0.011 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:276 Resp: 2982
Ion Ratio Lower Upper
276 100
138 20.1 16.8 25.2
277 23.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

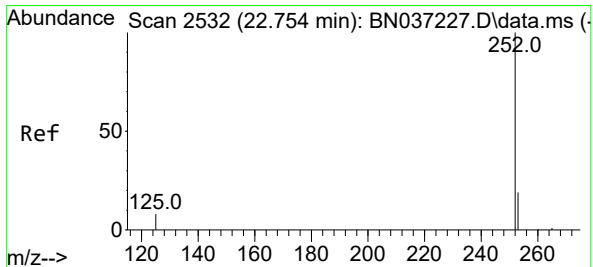
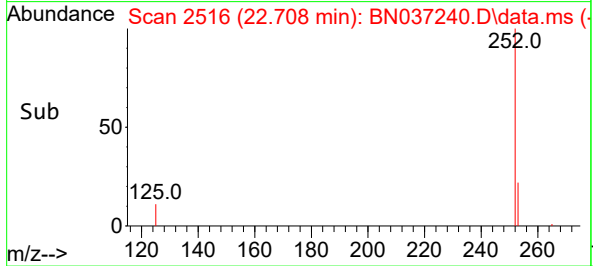
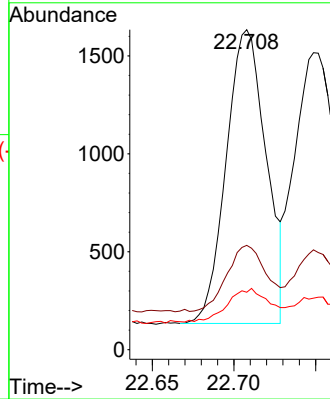
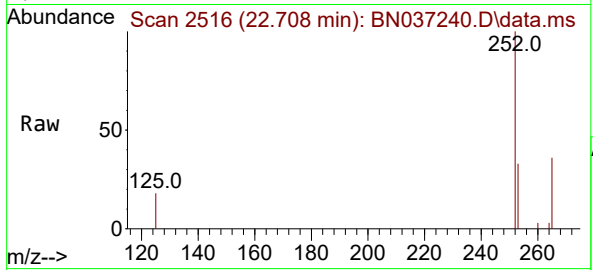
Tgt Ion:252 Resp: 2552

Ion Ratio Lower Upper

252 100

253 32.6 24.9 37.3

125 17.9 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.366 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

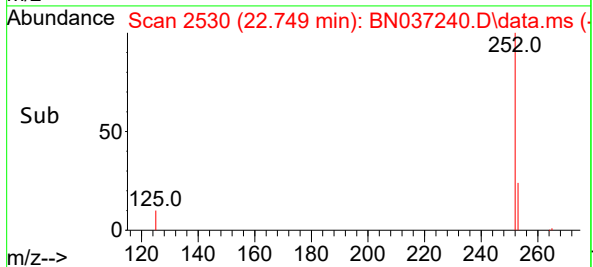
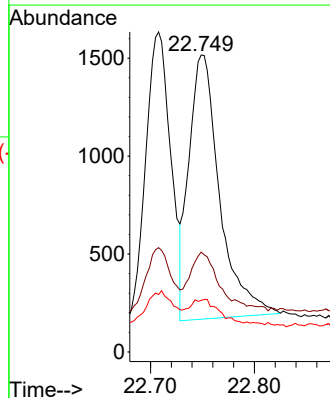
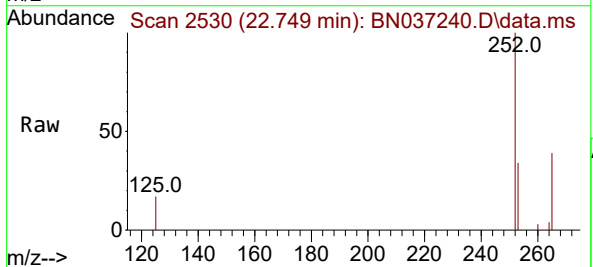
Tgt Ion:252 Resp: 2779

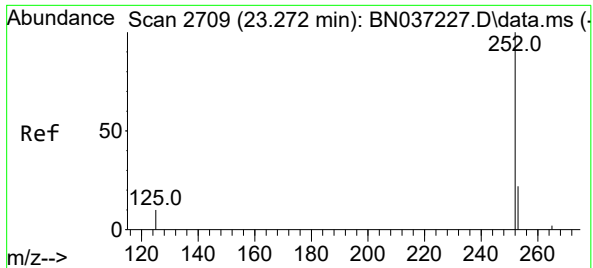
Ion Ratio Lower Upper

252 100

253 33.6 24.6 37.0

125 17.3 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037240.D

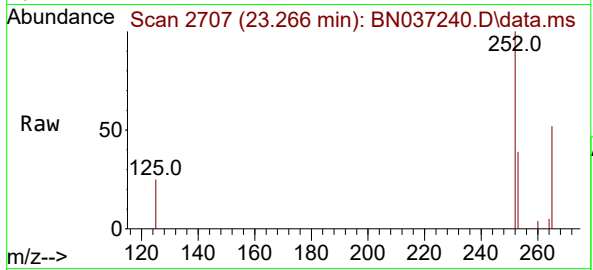
Acq: 13 Jun 2025 23:55

Instrument :

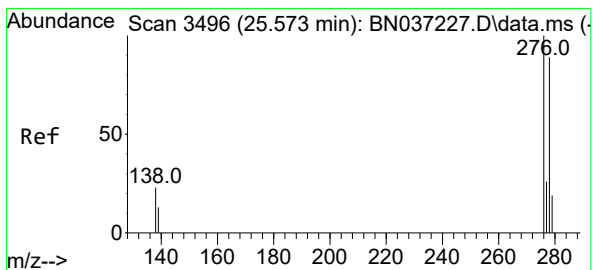
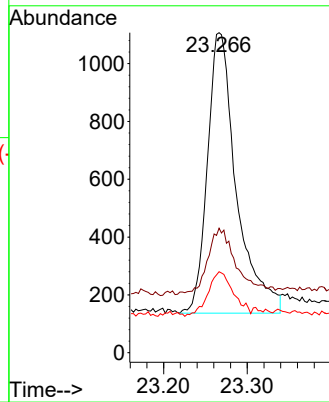
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	252	Resp:	2340
Ion Ratio	Lower	Upper	
252	100		
253	38.9	29.4	44.2
125	25.3	16.2	24.2



#40

Dibenzo(a,h)anthracene

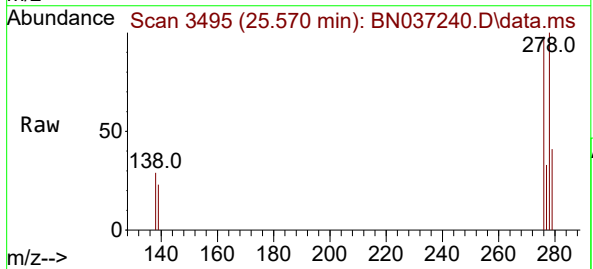
Concen: 0.411 ng

RT: 25.570 min Scan# 3495

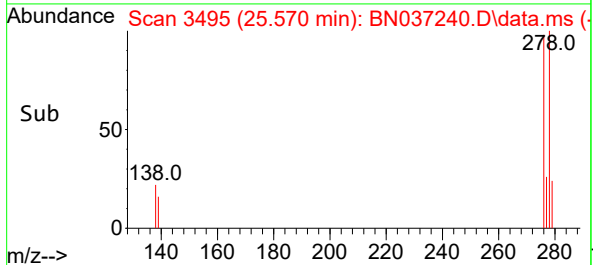
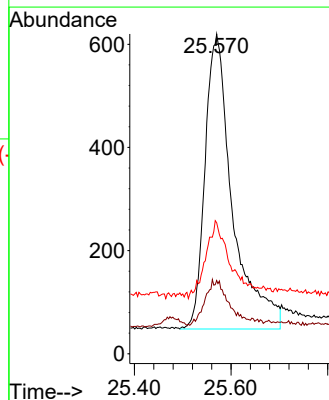
Delta R.T. -0.003 min

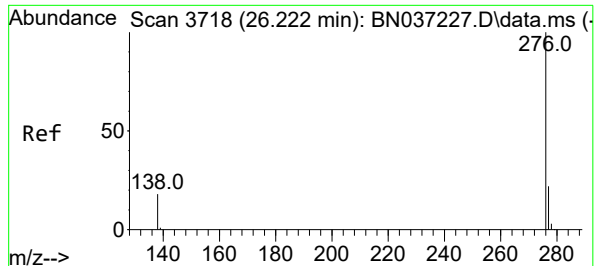
Lab File: BN037240.D

Acq: 13 Jun 2025 23:55



Tgt Ion:	278	Resp:	2263
Ion Ratio	Lower	Upper	
278	100		
139	22.9	17.8	26.6
279	41.0	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037240.D

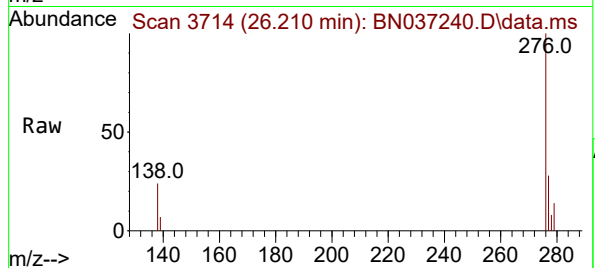
Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



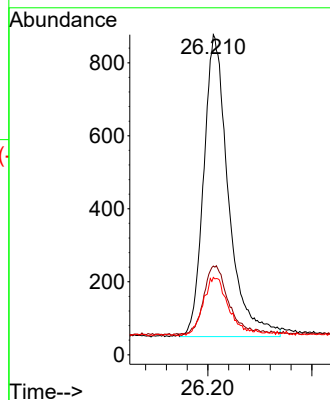
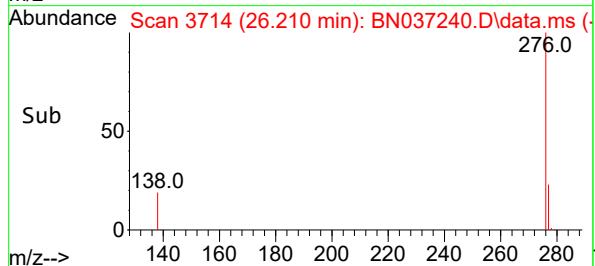
Tgt Ion:276 Resp: 2727

Ion Ratio Lower Upper

276 100

277 27.7 22.0 33.0

138 24.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037240.D
 Acq On : 13 Jun 2025 23:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	86	0.00
2	1,4-Dioxane	0.549	0.484	11.8	79	0.00
3	n-Nitrosodimethylamine	1.250	1.265	-1.2	85	0.00
4 S	2-Fluorophenol	0.982	0.884	10.0	80	0.00
5 S	Phenol-d6	1.035	0.970	6.3	86	0.00
6	bis(2-Chloroethyl)ether	0.927	0.913	1.5	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.395	0.404	-2.3	84	0.00
9	Naphthalene	1.158	1.143	1.3	81	0.00
10	Hexachlorobutadiene	0.282	0.293	-3.9	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.559	-4.1	81	0.00
12	2-Methylnaphthalene	0.704	0.675	4.1	77	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.166	0.171	-3.0	76	0.00
15 S	2-Fluorobiphenyl	1.681	1.759	-4.6	79	0.00
16	Acenaphthylene	1.960	1.917	2.2	78	0.00
17	Acenaphthene	1.265	1.217	3.8	74	0.00
18	Fluorene	1.625	1.570	3.4	75	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21	4-Bromophenyl-phenylether	0.261	0.247	5.4	76	0.00
22	Hexachlorobenzene	0.302	0.297	1.7	72	0.00
23	Atrazine	0.232	0.216	6.9	73	0.00
24	Pentachlorophenol	0.148	0.141	4.7	85	0.00
25	Phenanthrene	1.269	1.208	4.8	76	0.00
26	Anthracene	1.161	1.098	5.4	76	0.00
27 SURR	Fluoranthene-d10	1.046	1.058	-1.1	75	0.00
28	Fluoranthene	1.485	1.384	6.8	74	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30	Pyrene	1.881	1.868	0.7	74	0.00
31 S	Terphenyl-d14	0.904	0.889	1.7	74	0.00
32	Benzo(a)anthracene	1.351	1.340	0.8	86	0.00
33	Chrysene	1.683	1.653	1.8	76	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.969	3.7	74	0.00
35 I	Perylene-d12	1.000	1.000	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.659	-2.9	92	-0.01
37	Benzo(b)fluoranthene	1.463	1.420	2.9	86	0.00
38	Benzo(k)fluoranthene	1.689	1.546	8.5	79	0.00
39 C	Benzo(a)pyrene	1.316	1.302	1.1	88	0.00
40	Dibenzo(a,h)anthracene	1.227	1.259	-2.6	100	0.00
41	Benzo(g,h,i)perylene	1.496	1.518	-1.5	88	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037240.D
 Acq On : 13 Jun 2025 23:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	86	0.00
2	1,4-Dioxane	0.400	0.353	11.8	79	0.00
3	n-Nitrosodimethylamine	0.400	0.405	-1.3	85	0.00
4 S	2-Fluorophenol	0.400	0.360	10.0	80	0.00
5 S	Phenol-d6	0.400	0.375	6.3	86	0.00
6	bis(2-Chloroethyl)ether	0.400	0.394	1.5	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.400	0.408	-2.0	84	0.00
9	Naphthalene	0.400	0.395	1.3	81	0.00
10	Hexachlorobutadiene	0.400	0.415	-3.7	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.417	-4.2	81	0.00
12	2-Methylnaphthalene	0.400	0.384	4.0	77	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.413	-3.2	76	0.00
15 S	2-Fluorobiphenyl	0.400	0.419	-4.7	79	0.00
16	Acenaphthylene	0.400	0.391	2.3	78	0.00
17	Acenaphthene	0.400	0.385	3.8	74	0.00
18	Fluorene	0.400	0.386	3.5	75	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	75	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	76	0.00
22	Hexachlorobenzene	0.400	0.393	1.8	72	0.00
23	Atrazine	0.400	0.372	7.0	73	0.00
24	Pentachlorophenol	0.400	0.380	5.0	85	0.00
25	Phenanthrene	0.400	0.381	4.8	76	0.00
26	Anthracene	0.400	0.378	5.5	76	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	75	0.00
28	Fluoranthene	0.400	0.373	6.8	74	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30	Pyrene	0.400	0.397	0.8	74	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	74	0.00
32	Benzo(a)anthracene	0.400	0.397	0.8	86	0.00
33	Chrysene	0.400	0.393	1.8	76	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	74	0.00
35 I	Perylene-d12	0.400	0.400	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	92	-0.01
37	Benzo(b)fluoranthene	0.400	0.388	3.0	86	0.00
38	Benzo(k)fluoranthene	0.400	0.366	8.5	79	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	100	0.00
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	88	-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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 10:10

Lab File ID: BN037257.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.557		3.7	50.0
Fluoranthene-d10	1.047	1.058		1.1	50.0
2-Fluorophenol	0.982	0.966		-1.6	50.0
Phenol-d6	1.035	1.004		-3.0	50.0
Nitrobenzene-d5	0.395	0.401		1.5	50.0
2-Fluorobiphenyl	1.681	1.713		1.9	50.0
2,4,6-Tribromophenol	0.166	0.169		1.8	50.0
Terphenyl-d14	0.904	0.905		0.1	50.0
1,4-Dioxane	0.549	0.503		-8.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037257.D
 Acq On : 14 Jun 2025 10:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 16 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

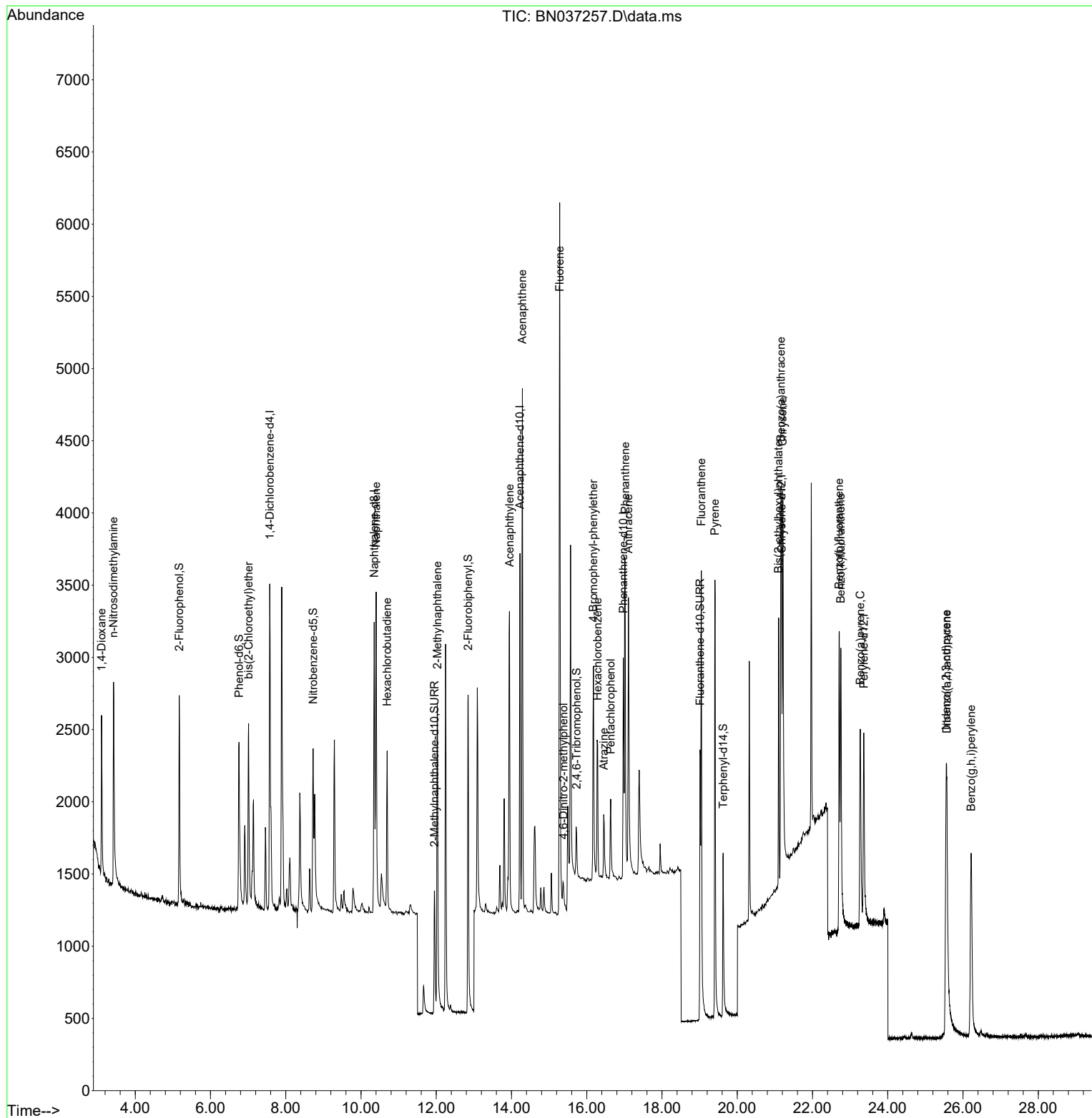
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1123	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2673	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1354	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2362	0.400	ng	0.00
29) Chrysene-d12	21.179	240	1800	0.400	ng	0.00
35) Perylene-d12	23.362	264	1888	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1085	0.393	ng	0.00
5) Phenol-d6	6.759	99	1128	0.388	ng	0.00
8) Nitrobenzene-d5	8.728	82	1072	0.406	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1489	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	229	0.407	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.408	ng	0.00
27) Fluoranthene-d10	19.012	212	2499	0.404	ng	0.00
31) Terphenyl-d14	19.625	244	1629	0.400	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	565	0.367	ng	97
3) n-Nitrosodimethylamine	3.422	42	1468	0.418	ng	# 95
6) bis(2-Chloroethyl)ether	7.011	93	1041	0.400	ng	93
9) Naphthalene	10.404	128	3065	0.396	ng	99
10) Hexachlorobutadiene	10.692	225	789	0.419	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1789	0.380	ng	98
16) Acenaphthylene	13.946	152	2535	0.382	ng	99
17) Acenaphthene	14.288	154	1658	0.387	ng	100
18) Fluorene	15.282	166	2058	0.374	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	192	0.426	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	592	0.385	ng	91
22) Hexachlorobenzene	16.289	284	720	0.404	ng	99
23) Atrazine	16.450	200	530	0.386	ng	# 93
24) Pentachlorophenol	16.636	266	343	0.392	ng	99
25) Phenanthrene	17.021	178	2864	0.382	ng	99
26) Anthracene	17.108	178	2628	0.383	ng	98
28) Fluoranthene	19.045	202	3275	0.373	ng	99
30) Pyrene	19.407	202	3356	0.397	ng	99
32) Benzo(a)anthracene	21.162	228	2378	0.391	ng	99
33) Chrysene	21.206	228	3069	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1780	0.393	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	3254	0.427	ng	97
37) Benzo(b)fluoranthene	22.708	252	2661	0.385	ng	99
38) Benzo(k)fluoranthene	22.751	252	2970	0.373	ng	98
39) Benzo(a)pyrene	23.269	252	2477	0.399	ng	# 95
40) Dibenzo(a,h)anthracene	25.570	278	2342	0.404	ng	97
41) Benzo(g,h,i)perylene	26.213	276	2869	0.406	ng	98

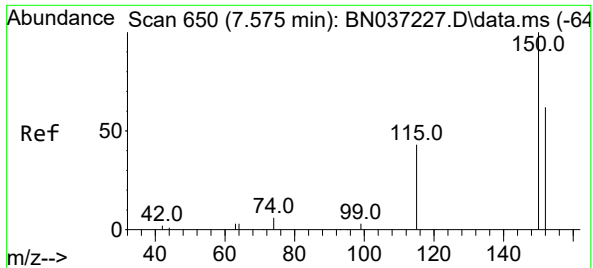
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

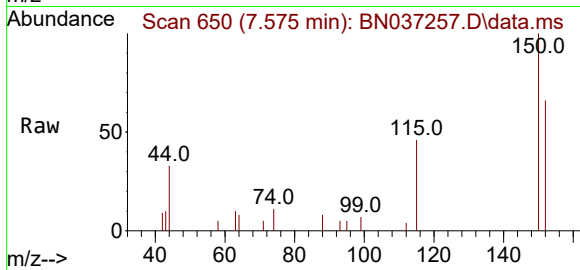
Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



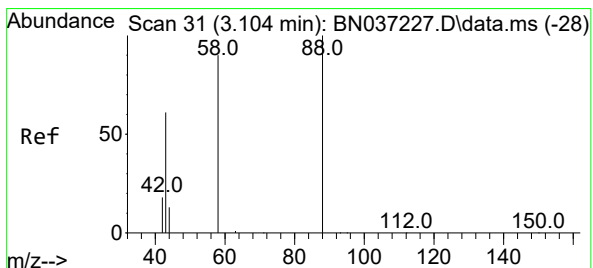
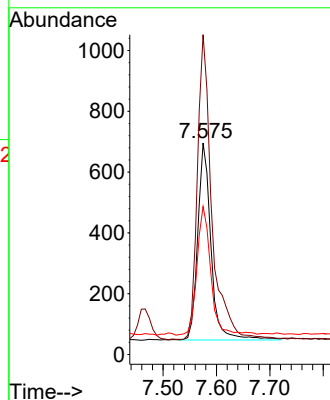
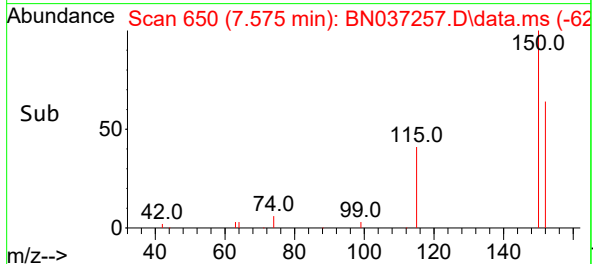


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

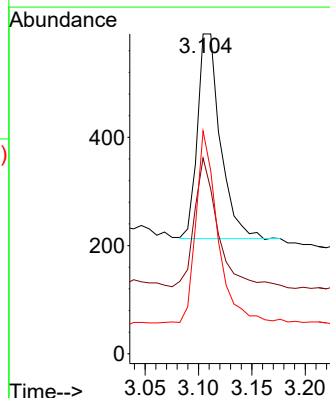
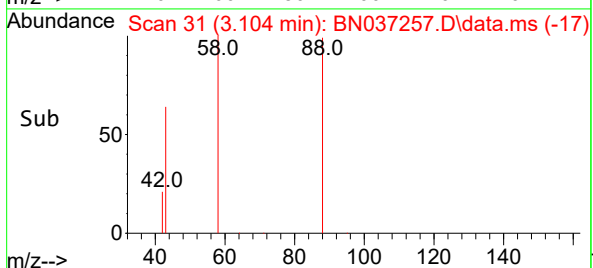
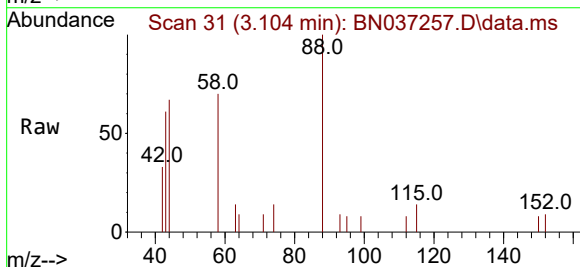


Tgt Ion:152 Resp: 1123
Ion Ratio Lower Upper
152 100
150 151.1 125.2 187.8
115 70.0 58.4 87.6

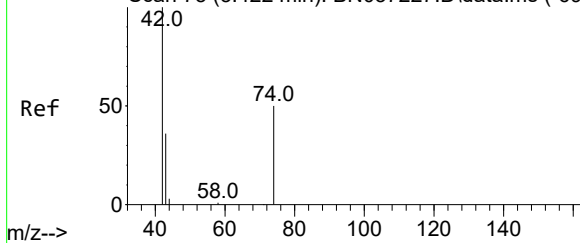


#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion: 88 Resp: 565
Ion Ratio Lower Upper
88 100
43 63.7 52.6 79.0
58 89.4 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.418 ng

RT: 3.422 min Scan# 75

Delta R.T. -0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1468

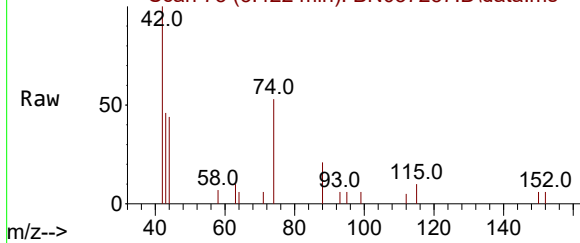
Ion Ratio Lower Upper

42 100

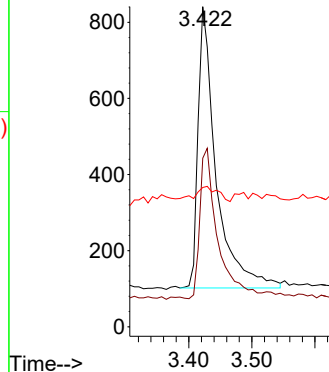
74 52.7 44.6 66.8

44 7.5 3.5 5.3#

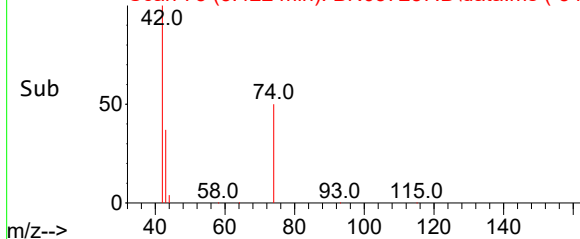
Abundance Scan 75 (3.422 min): BN037257.D\data.ms



Abundance

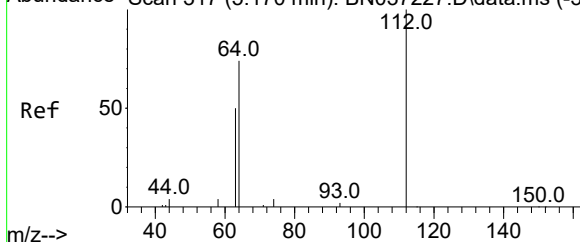


Abundance Scan 75 (3.422 min): BN037257.D\data.ms (-54)



Time-->

Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.393 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Tgt Ion: 112 Resp: 1085

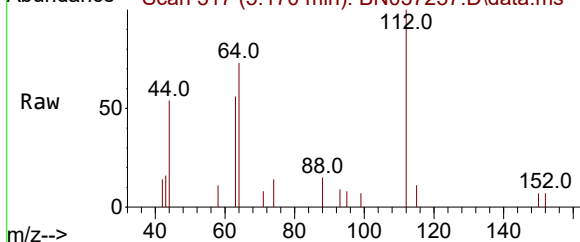
Ion Ratio Lower Upper

112 100

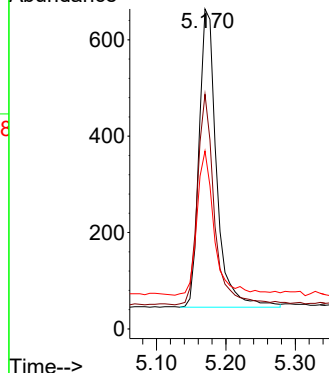
64 68.8 57.2 85.8

63 48.2 39.8 59.6

Abundance Scan 317 (5.170 min): BN037257.D\data.ms

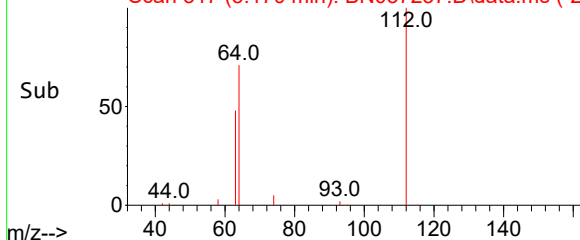


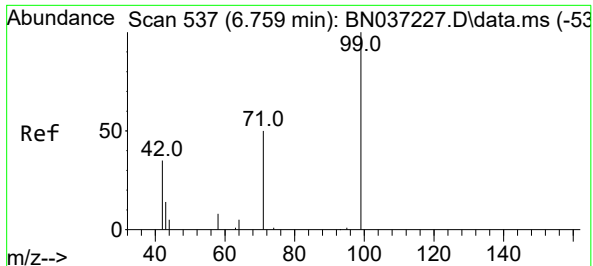
Abundance



Time-->

Abundance Scan 317 (5.170 min): BN037257.D\data.ms (-28)

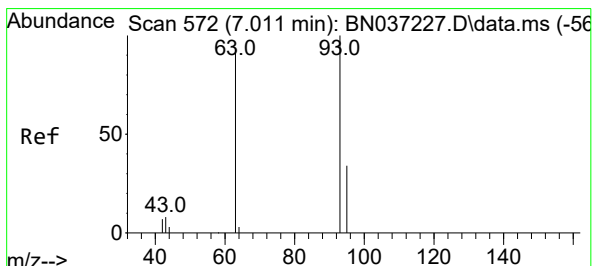
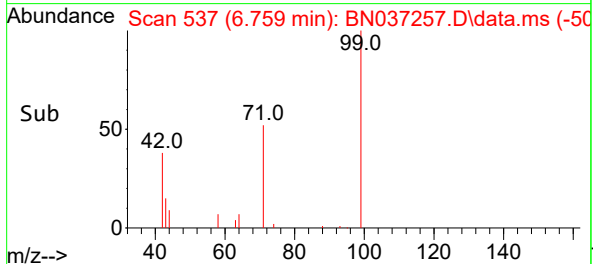
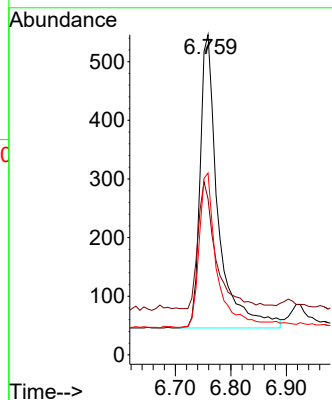
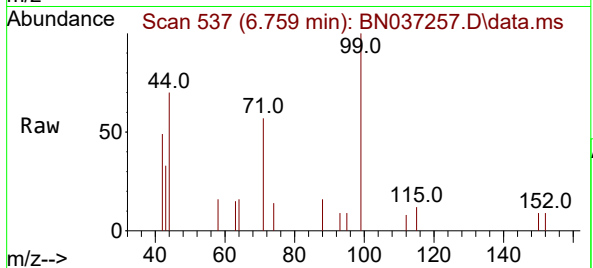




#5
Phenol-d6
Concen: 0.388 ng
RT: 6.759 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

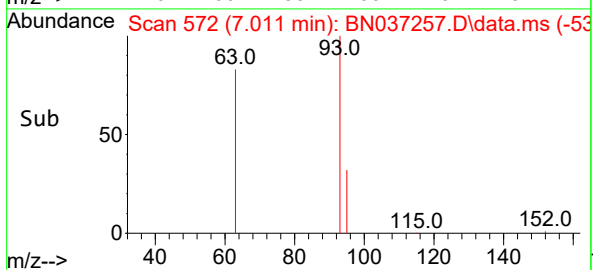
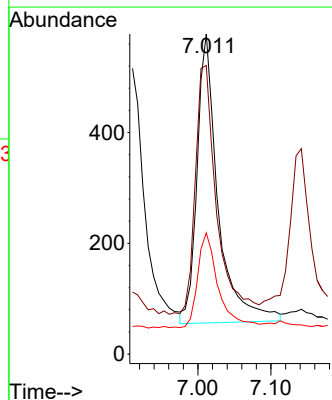
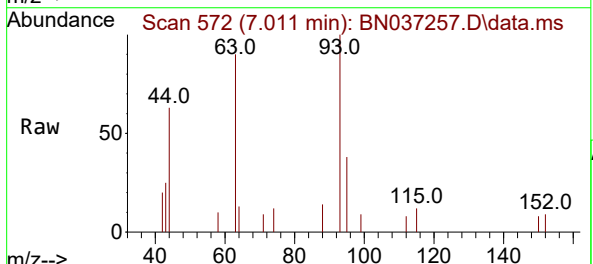
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

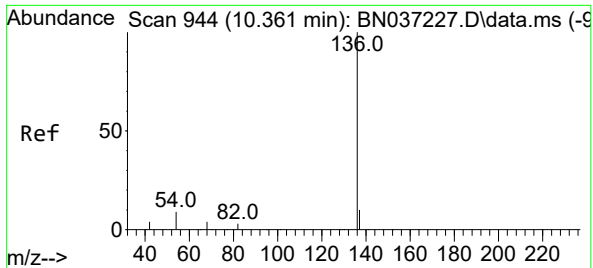
Tgt Ion	Ratio	Lower	Upper
99	100		
42	43.6	36.2	54.4
71	51.4	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.400 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.9	75.2	112.8
95	31.9	28.3	42.5

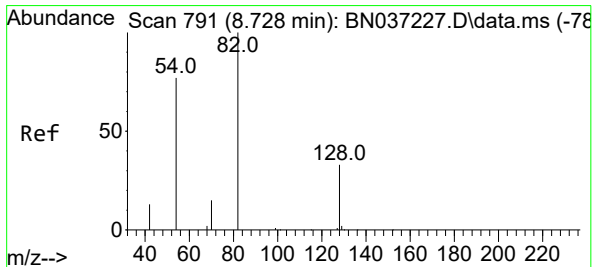
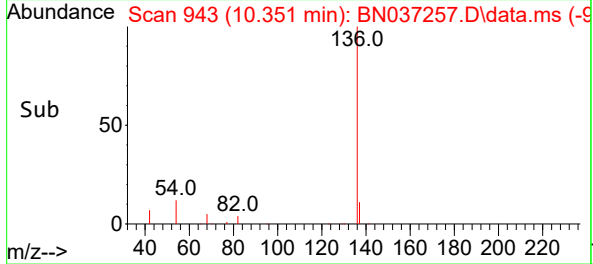
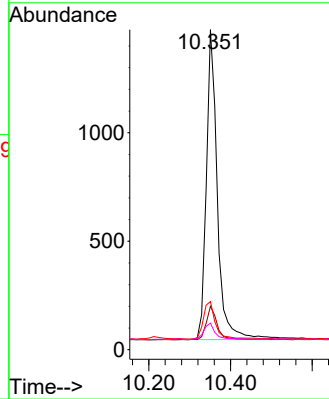
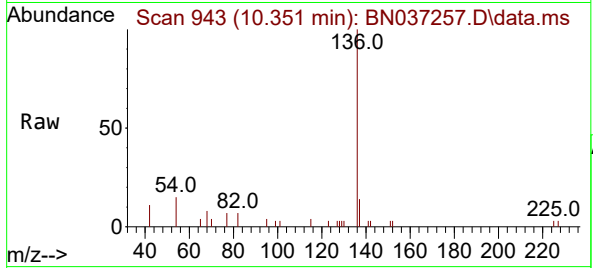




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

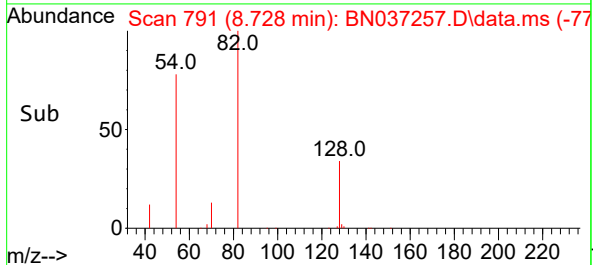
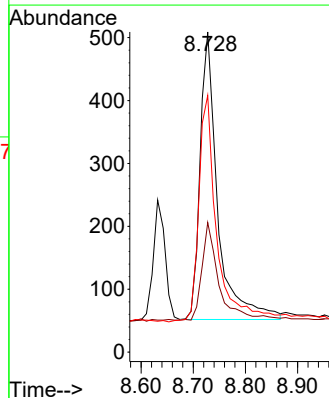
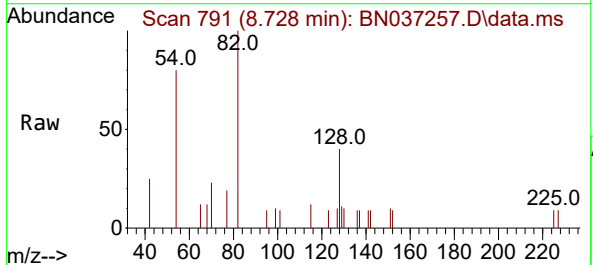
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

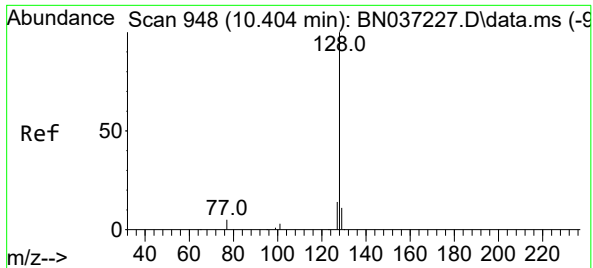
Tgt Ion:	136	Resp:	2673
Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.6	15.8
54	15.1	9.2	13.8#
68	8.3	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.406 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:	82	Resp:	1072
Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.2	46.8
54	80.2	63.3	94.9

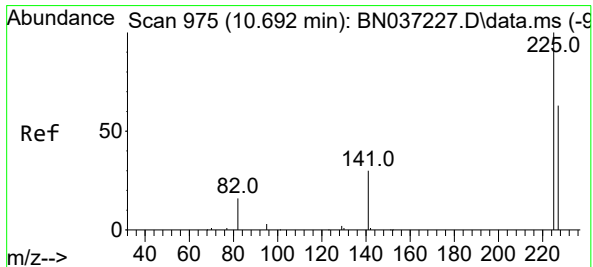
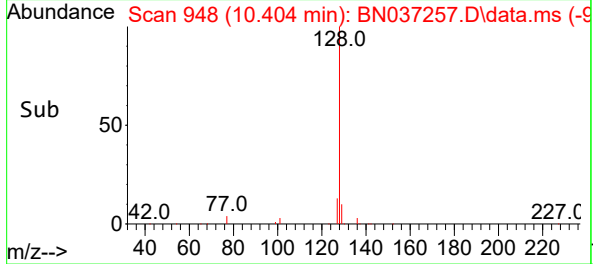
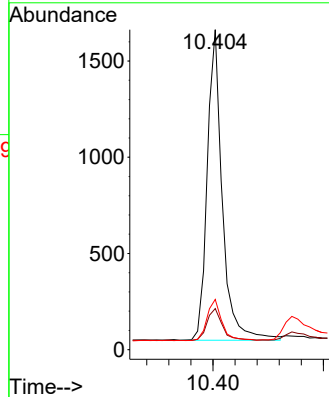
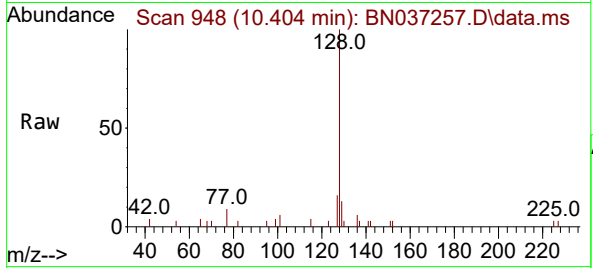




#9
Naphthalene
Concen: 0.396 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

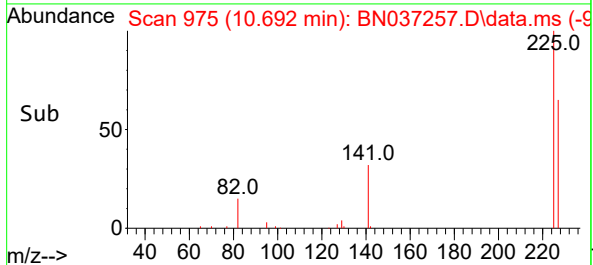
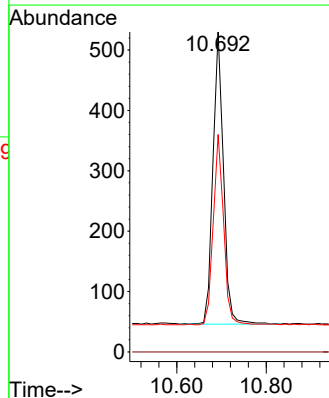
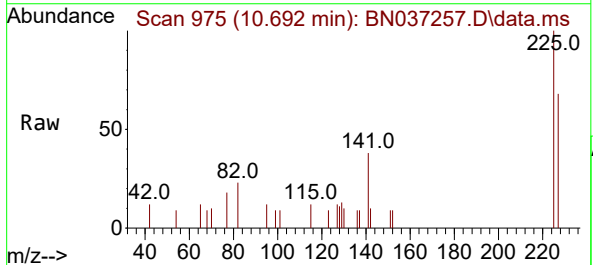
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

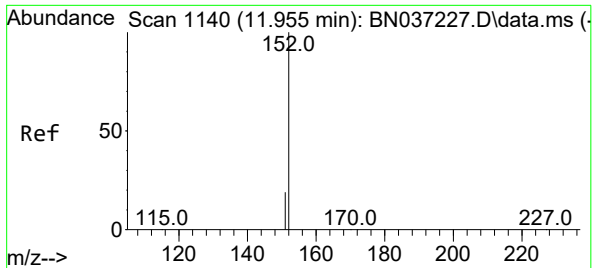
Tgt Ion:	128	Resp:	3065
Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	15.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:	225	Resp:	789
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8

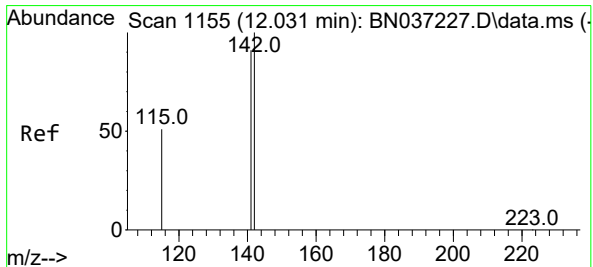
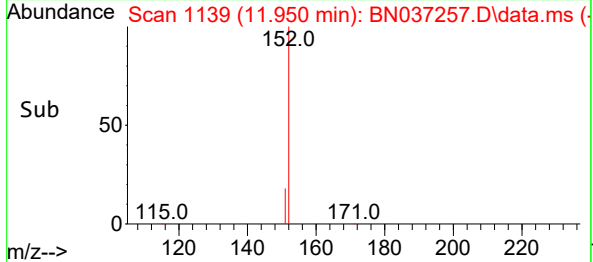
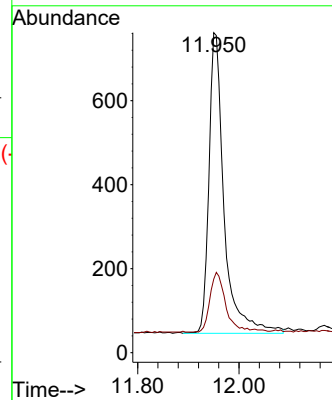
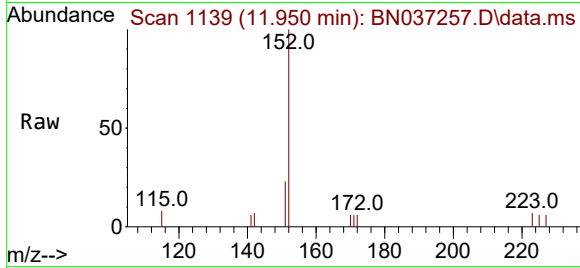




#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

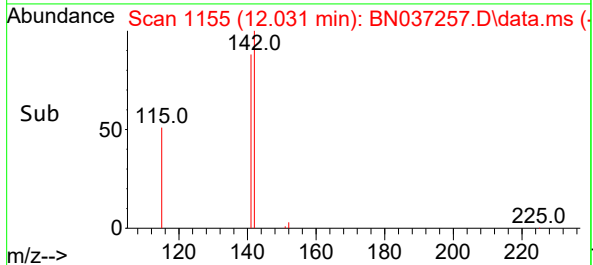
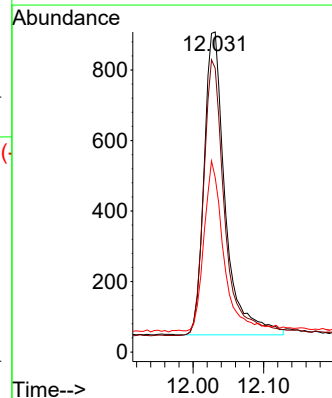
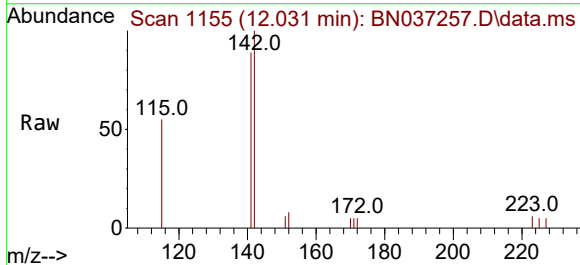
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

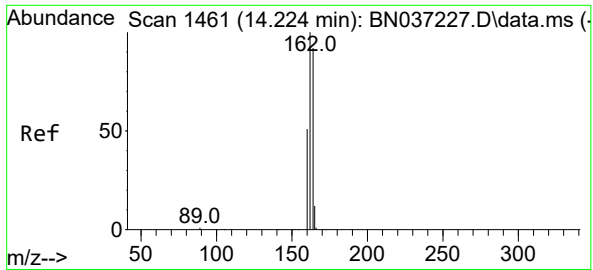
Tgt Ion:152 Resp: 1489
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:142 Resp: 1789
Ion Ratio Lower Upper
142 100
141 88.7 73.0 109.6
115 54.5 43.3 64.9

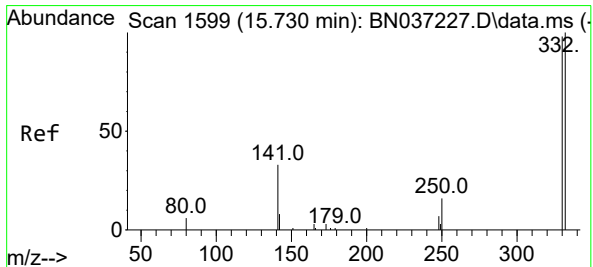
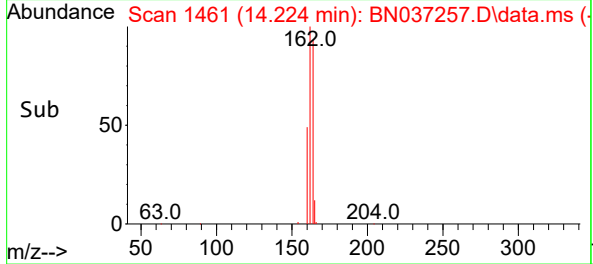
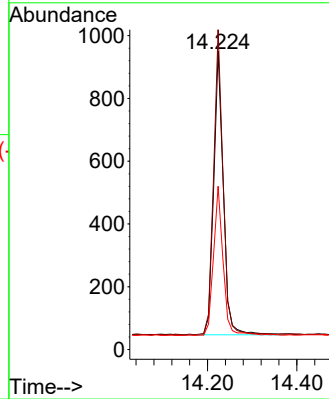
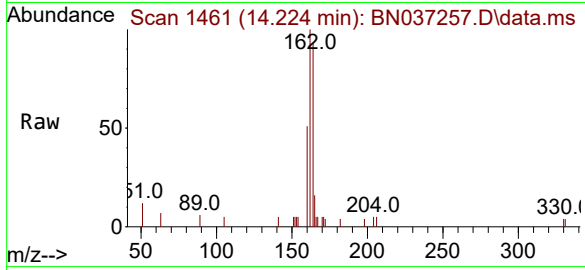




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

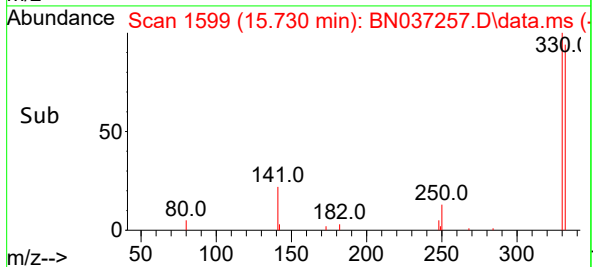
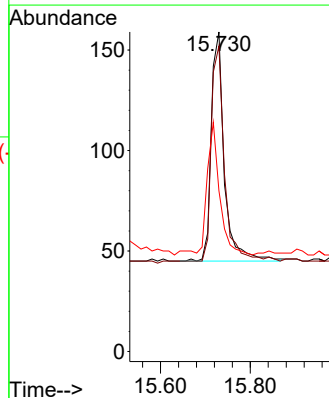
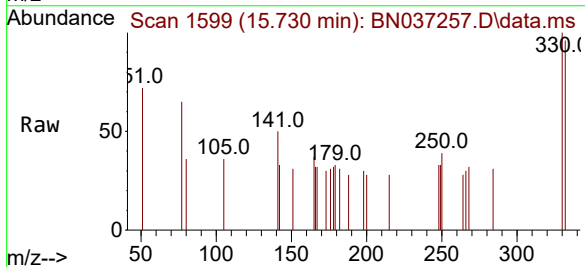
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

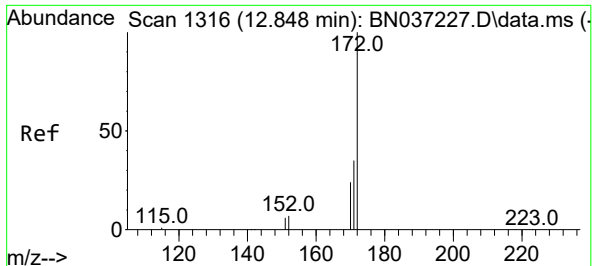
Tgt Ion	164	162	160
Resp:	1354		
Ion Ratio	100	107.2	54.7
Lower		86.7	45.8
Upper		130.1	68.6



#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion	330	332	141
Resp:	229		
Ion Ratio	100	94.8	57.2
Lower		74.9	45.1
Upper		112.3	67.7

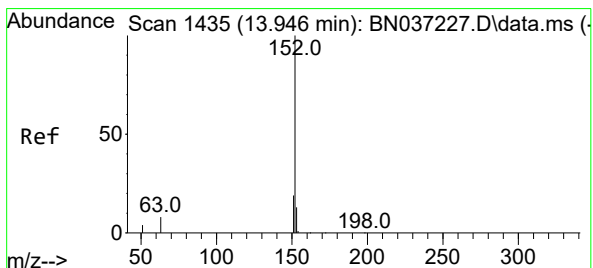
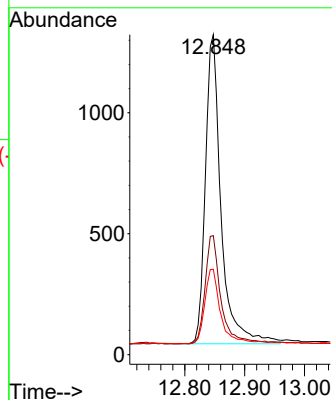
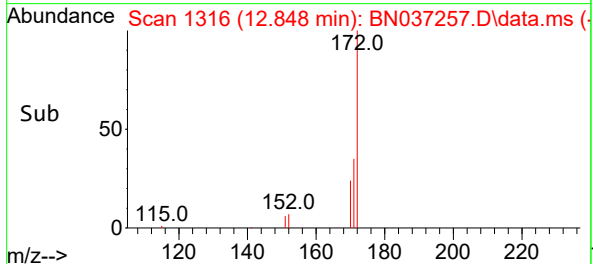
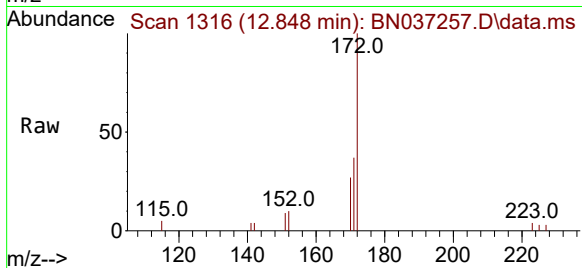




#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.848 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

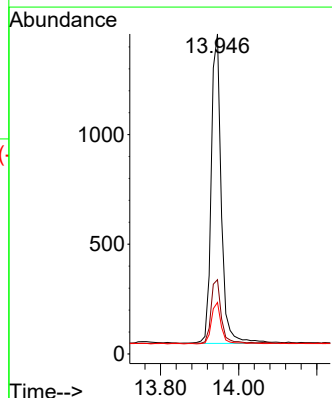
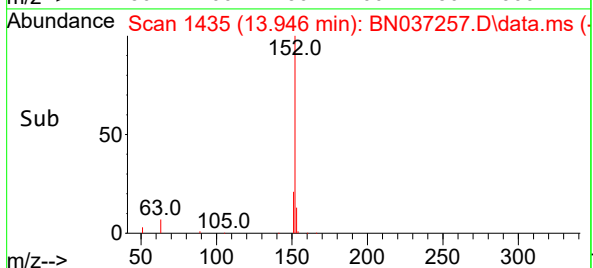
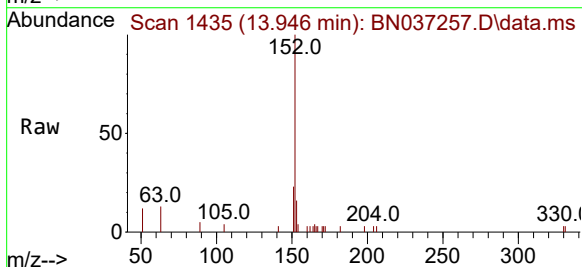
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

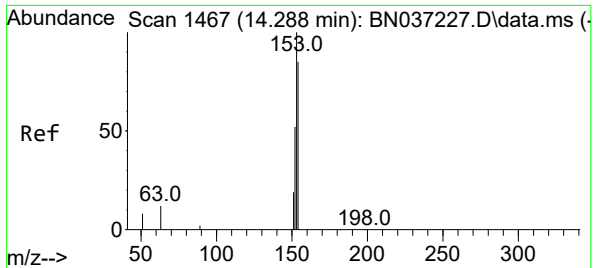
Tgt Ion:172 Resp: 2320
Ion Ratio Lower Upper
172 100
171 37.2 29.8 44.8
170 26.7 21.1 31.7



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:152 Resp: 2535
Ion Ratio Lower Upper
152 100
151 20.5 15.7 23.5
153 13.2 10.7 16.1

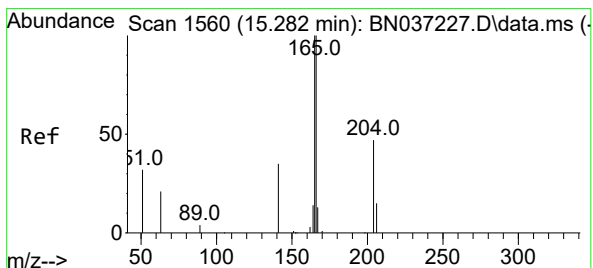
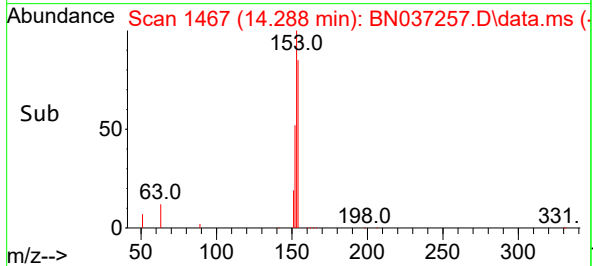
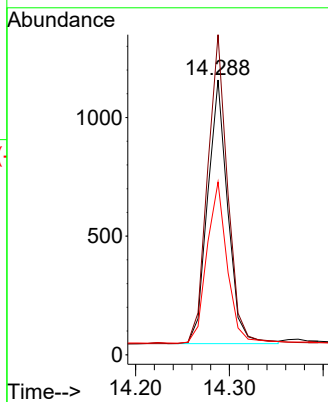
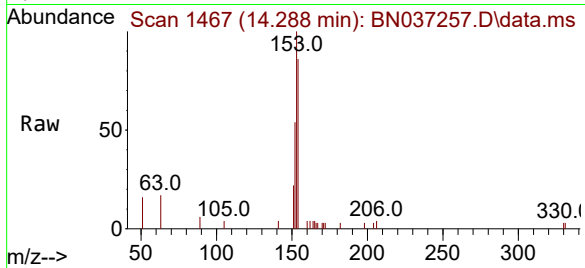




#17
Acenaphthene
Concen: 0.387 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

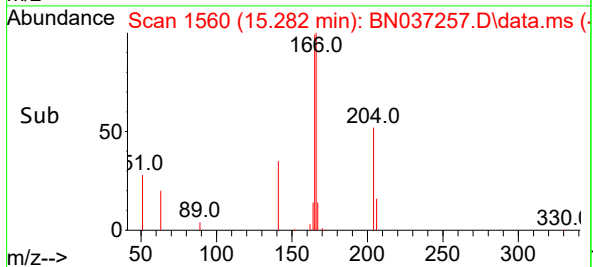
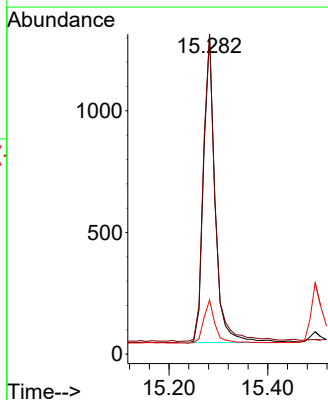
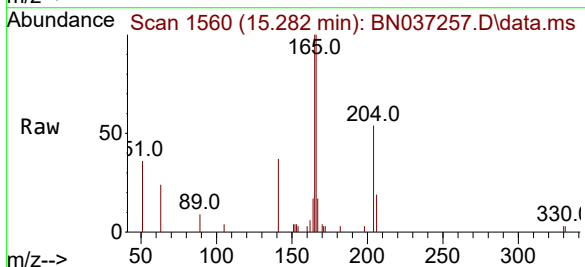
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

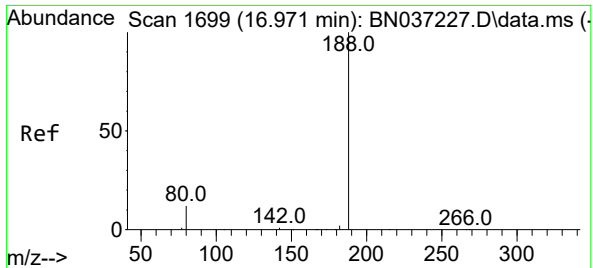
Tgt Ion:154 Resp: 1658
Ion Ratio Lower Upper
154 100
153 117.9 94.6 141.8
152 62.4 49.6 74.4



#18
Fluorene
Concen: 0.374 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:166 Resp: 2058
Ion Ratio Lower Upper
166 100
165 102.0 79.8 119.6
167 14.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

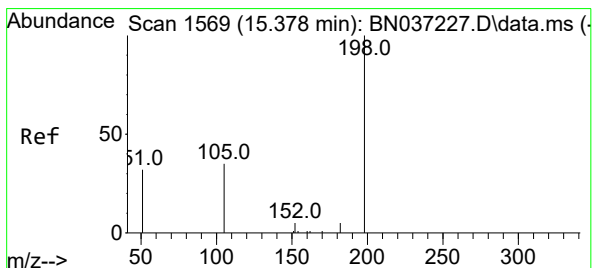
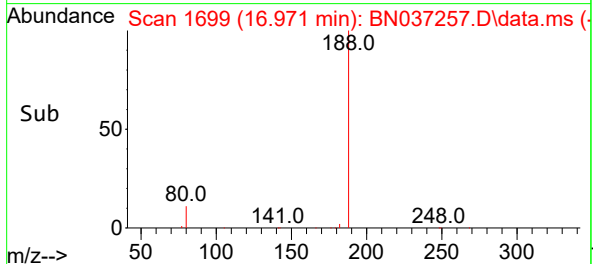
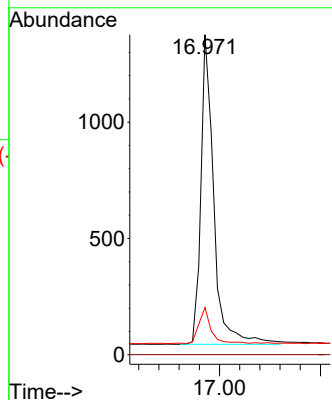
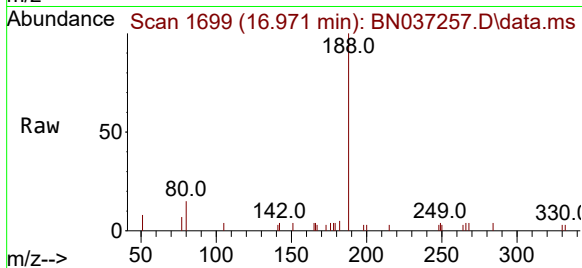
Tgt Ion:188 Resp: 2362

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.426 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

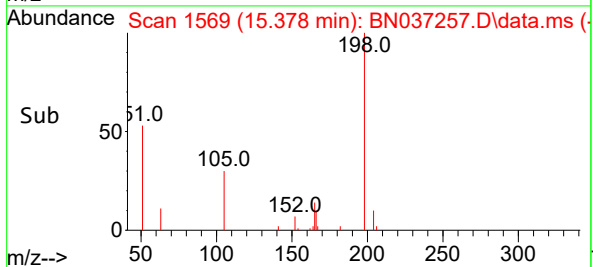
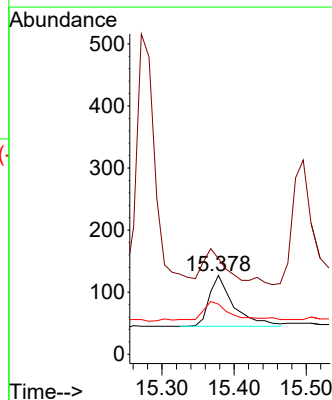
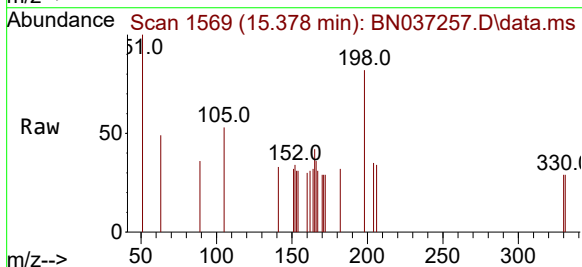
Tgt Ion:198 Resp: 192

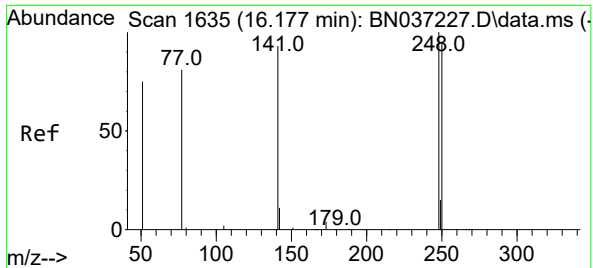
Ion Ratio Lower Upper

198 100

51 121.3 111.2 166.8

105 63.8 54.0 81.0

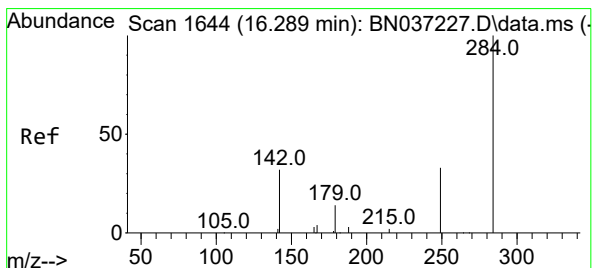
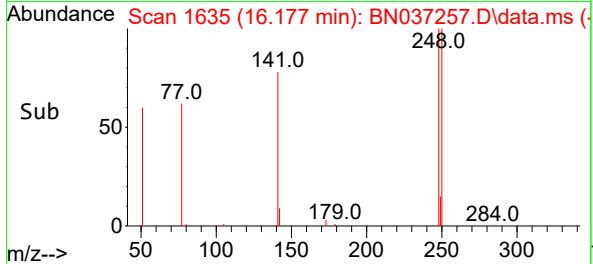
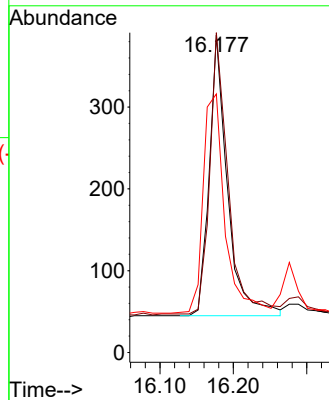
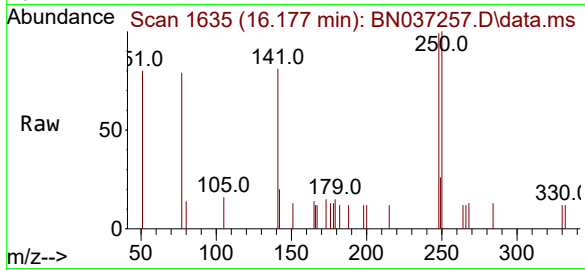




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

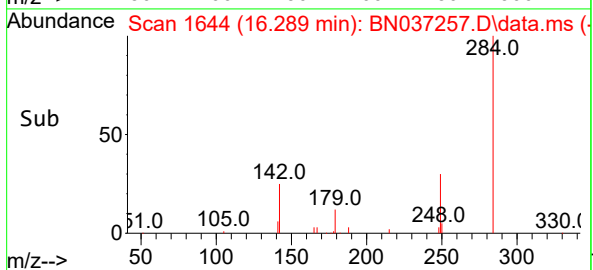
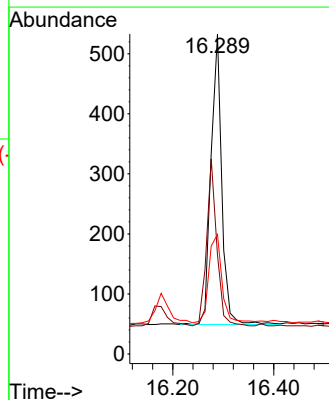
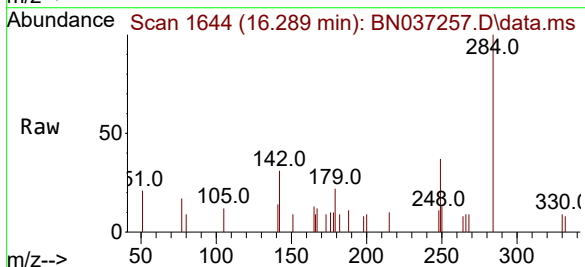
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

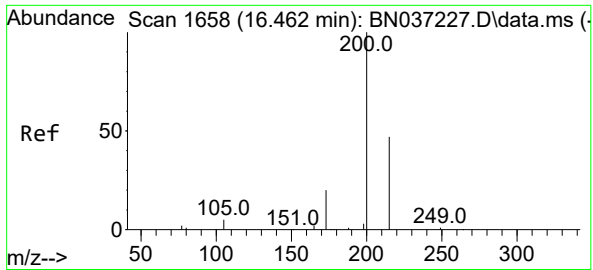
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	76.8	115.2
141	81.4	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.0	43.8	65.6
249	36.7	28.4	42.6





#23

Atrazine

Concen: 0.386 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

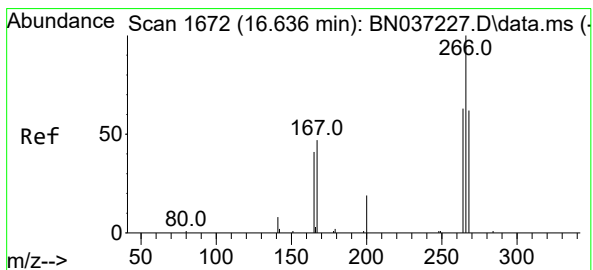
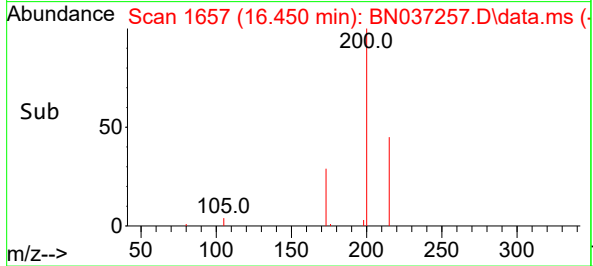
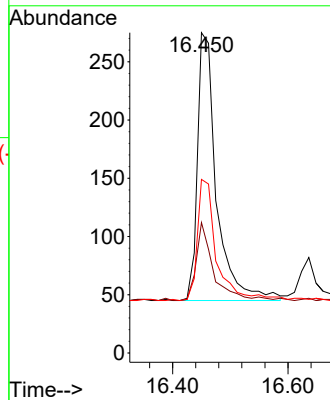
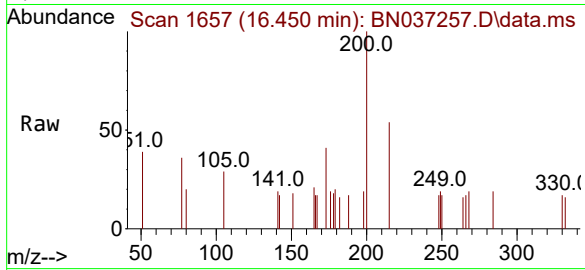
Tgt Ion:200 Resp: 530

Ion Ratio Lower Upper

200 100

173 40.7 25.1 37.7#

215 54.2 43.7 65.5



#24

Pentachlorophenol

Concen: 0.392 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

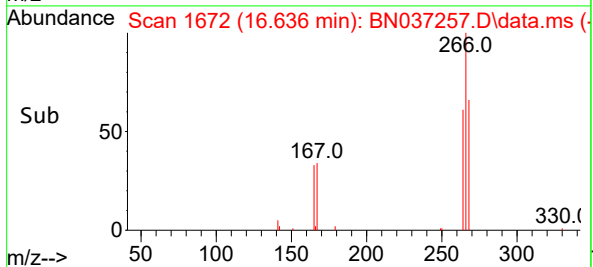
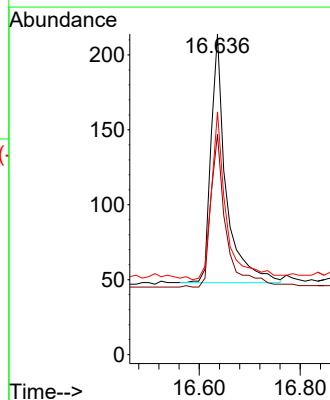
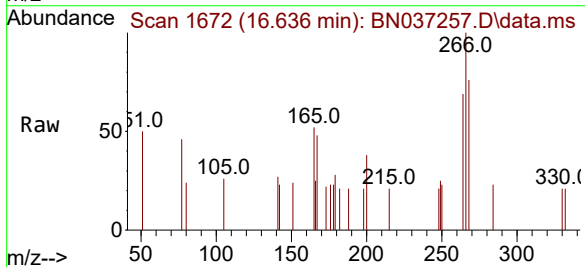
Tgt Ion:266 Resp: 343

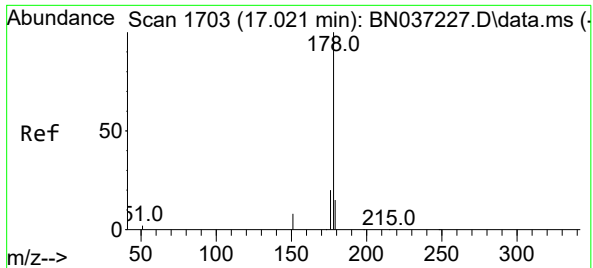
Ion Ratio Lower Upper

266 100

264 62.7 49.2 73.8

268 67.6 53.4 80.2

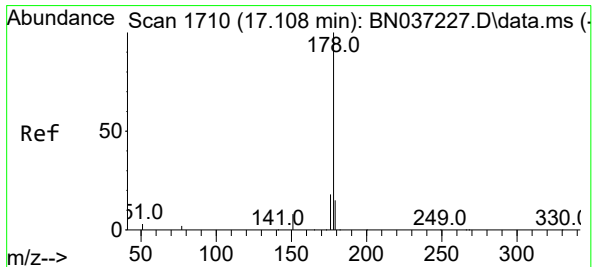
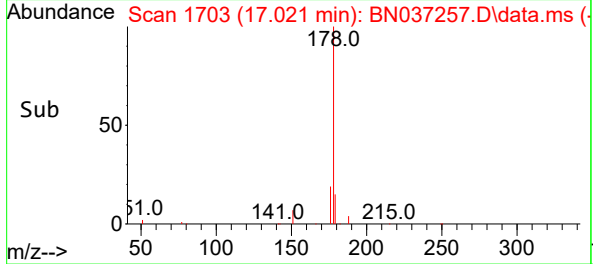
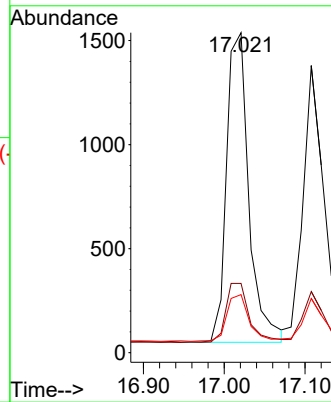
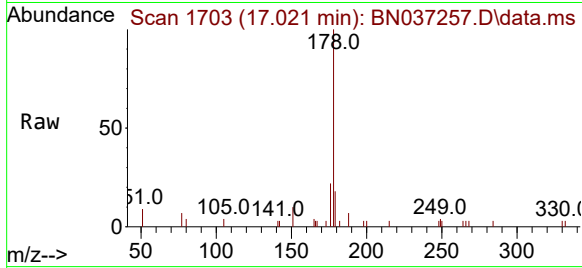




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

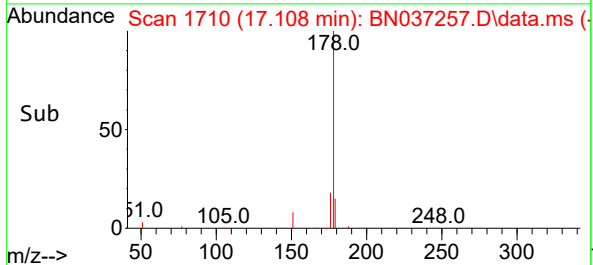
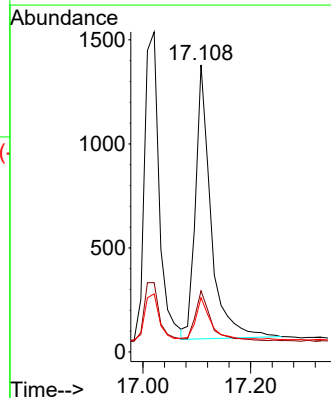
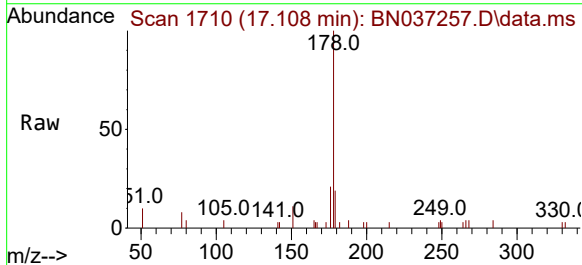
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

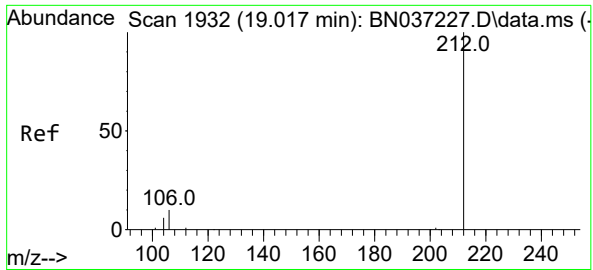
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.3	24.5
179	14.8	12.6	18.8



#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.1	22.7
179	14.5	12.4	18.6

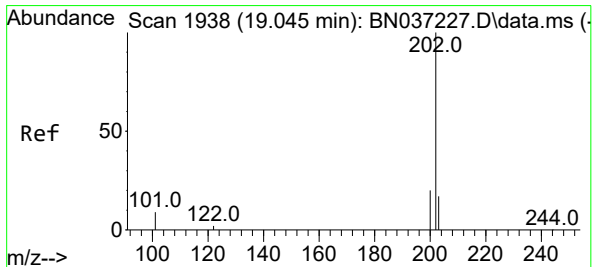
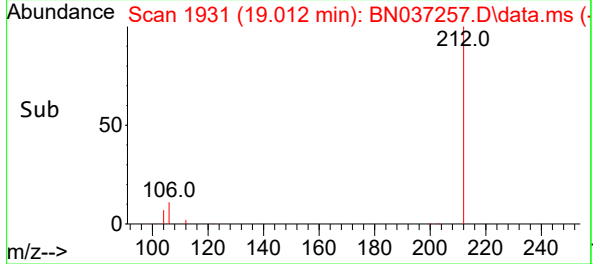
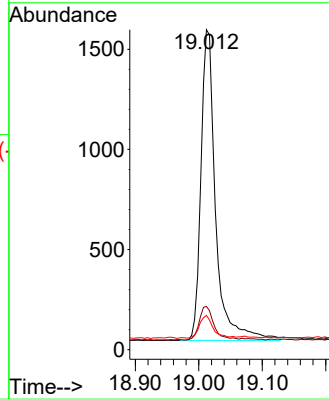
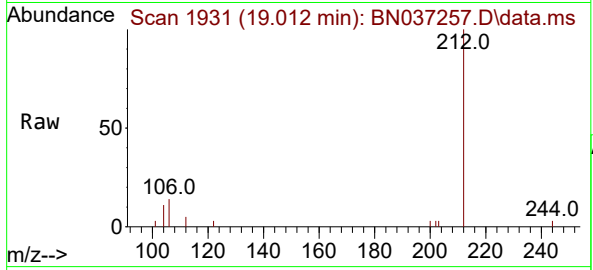




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

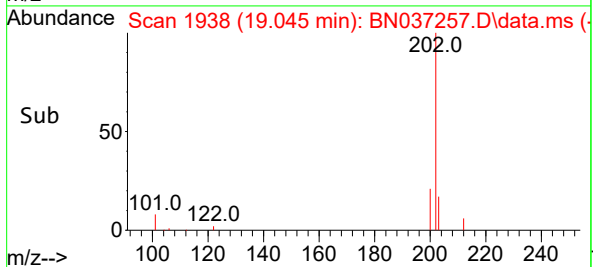
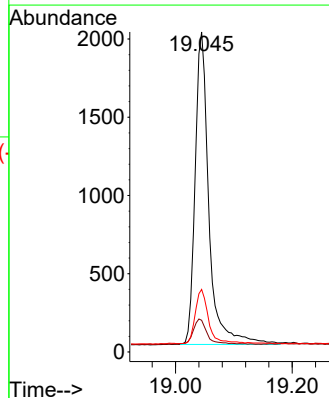
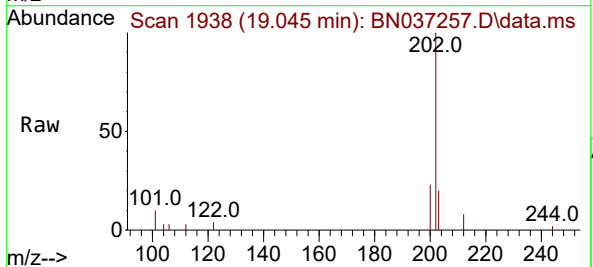
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

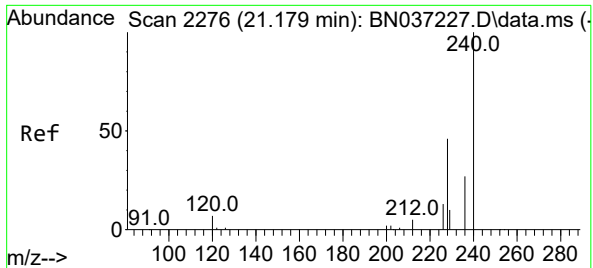
Tgt Ion:212 Resp: 2499
Ion Ratio Lower Upper
212 100
106 10.8 9.3 13.9
104 7.0 5.7 8.5



#28
Fluoranthene
Concen: 0.373 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:202 Resp: 3275
Ion Ratio Lower Upper
202 100
101 8.4 7.1 10.7
203 16.9 13.0 19.6

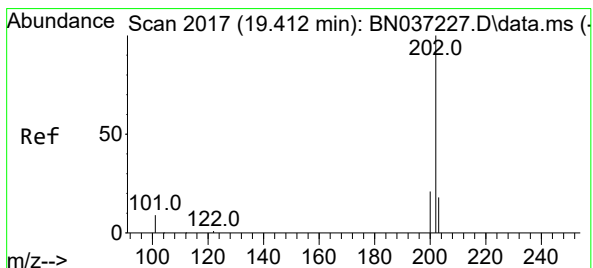
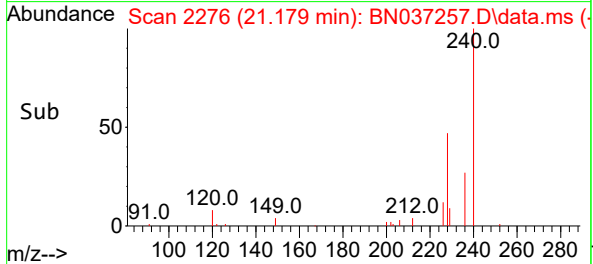
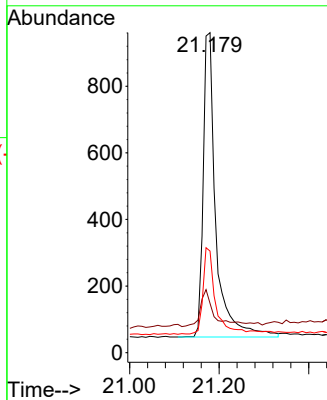
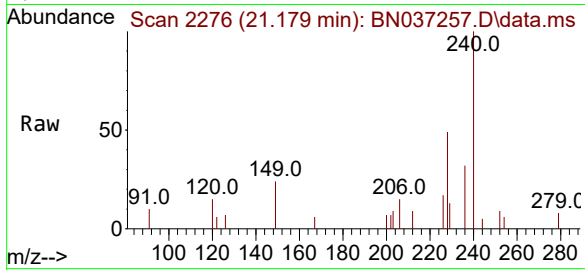




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 2117
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

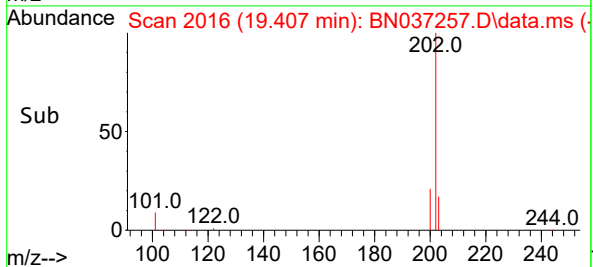
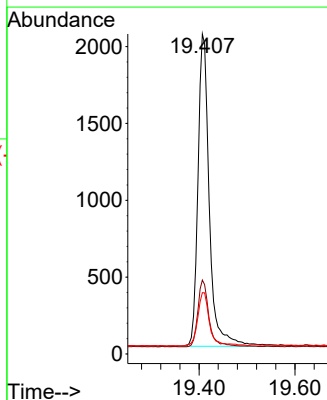
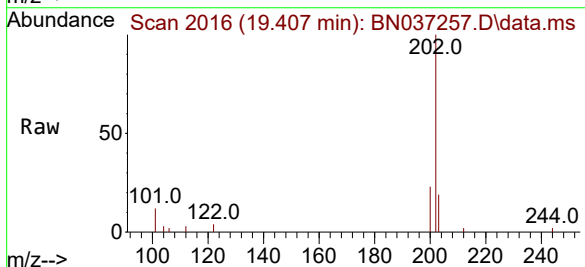
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

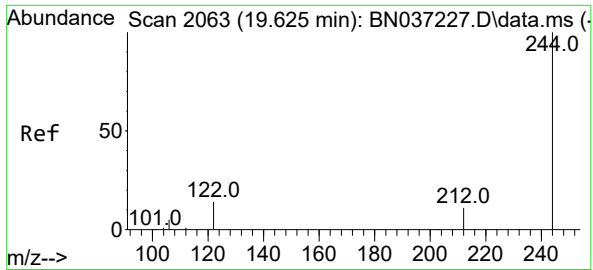
Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.4	11.3	16.9
236	31.7	24.4	36.6



#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

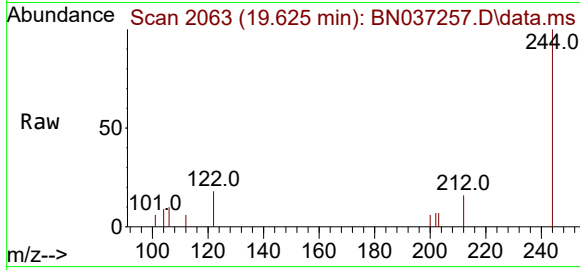
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.2	25.8
203	17.7	14.3	21.5



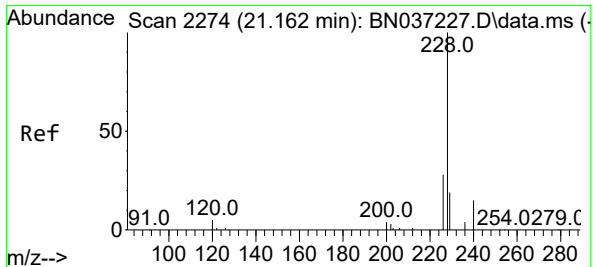
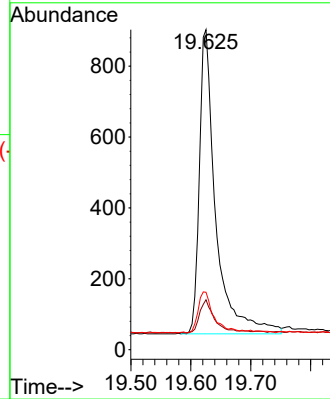
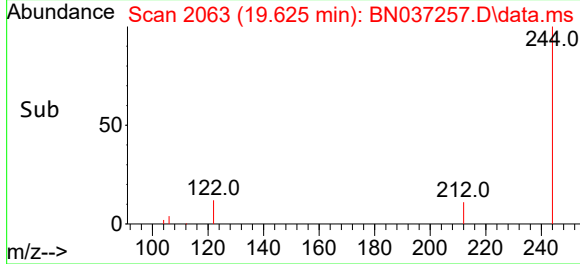


#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

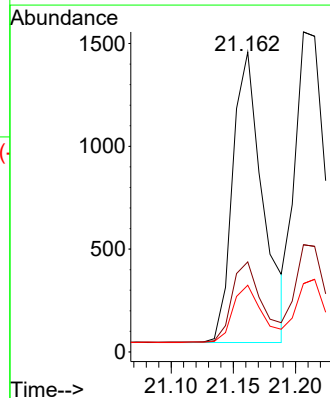
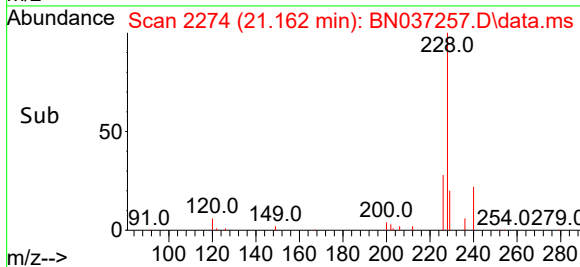
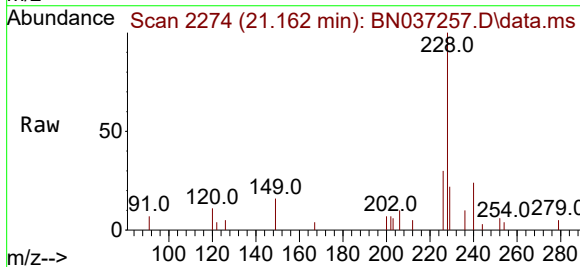


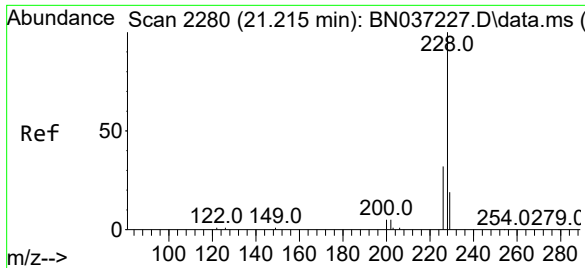
Tgt Ion:244 Resp: 1629
Ion Ratio Lower Upper
244 100
212 15.6 12.2 18.2
122 17.9 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.391 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:228 Resp: 2378
Ion Ratio Lower Upper
228 100
226 30.0 23.8 35.8
229 22.2 17.0 25.4





#33

Chrysene

Concen: 0.405 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

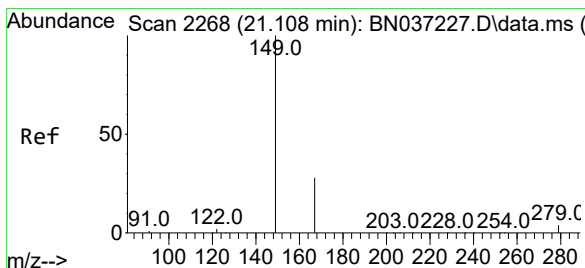
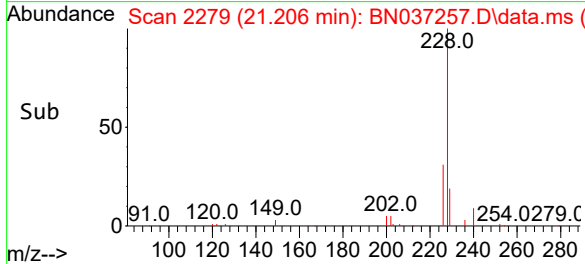
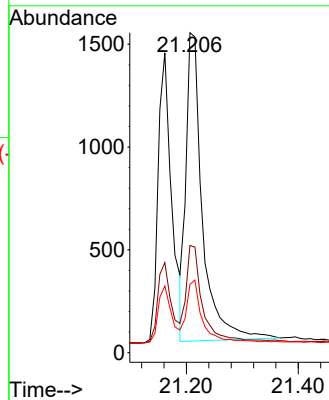
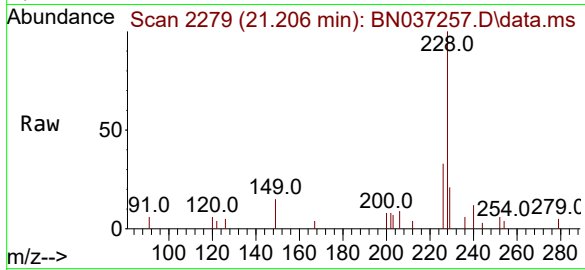
Tgt Ion:228 Resp: 3069

Ion Ratio Lower Upper

228 100

226 33.5 25.8 38.6

229 21.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.393 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

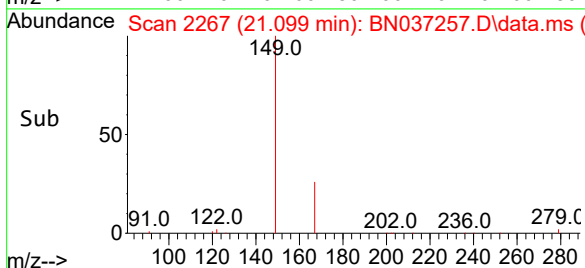
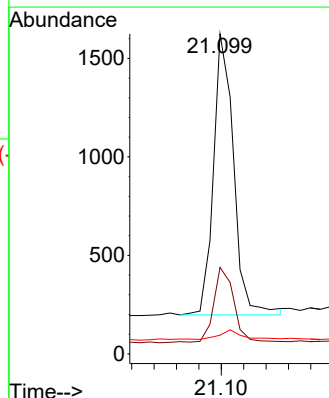
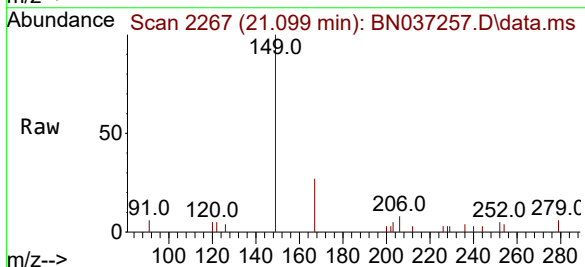
Tgt Ion:149 Resp: 1780

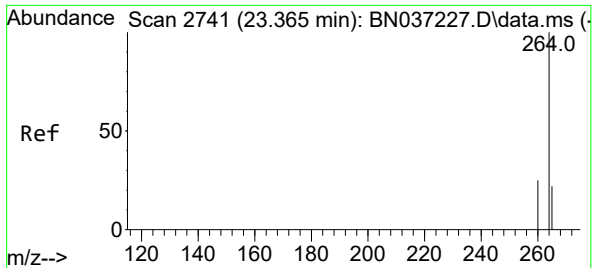
Ion Ratio Lower Upper

149 100

167 26.7 21.3 31.9

279 3.5 3.3 4.9

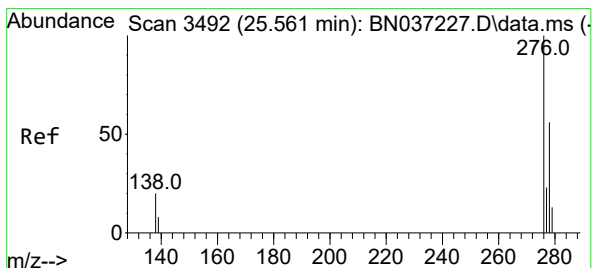
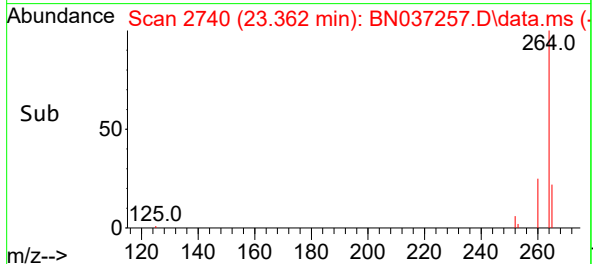
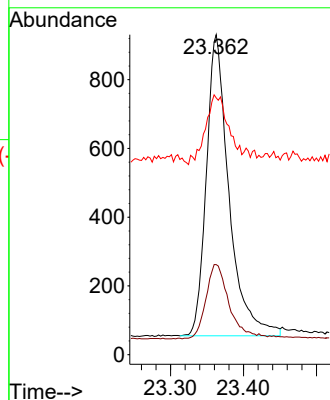
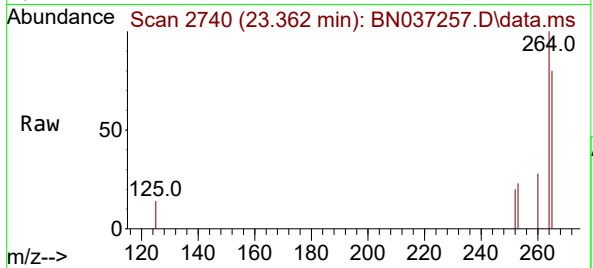




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

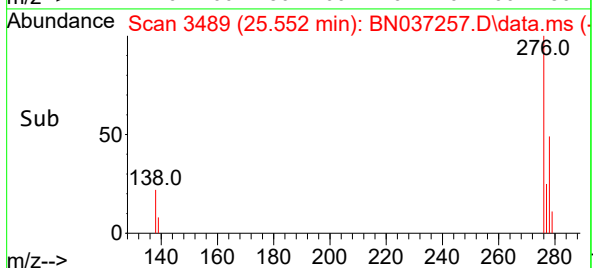
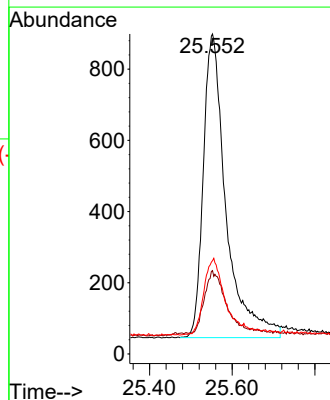
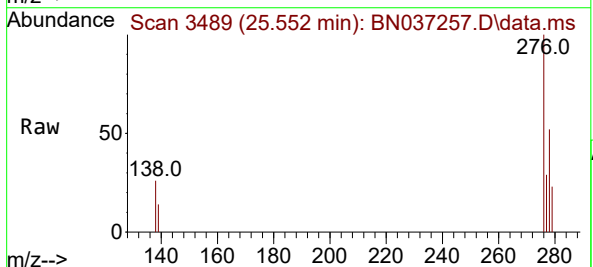
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

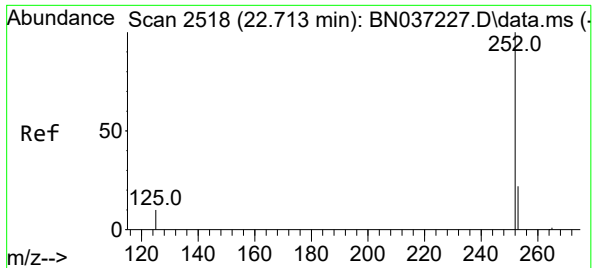
Tgt Ion:264 Resp: 1888
Ion Ratio Lower Upper
264 100
260 28.1 22.8 34.2
265 80.2 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:276 Resp: 3254
Ion Ratio Lower Upper
276 100
138 19.4 16.8 25.2
277 22.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.385 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

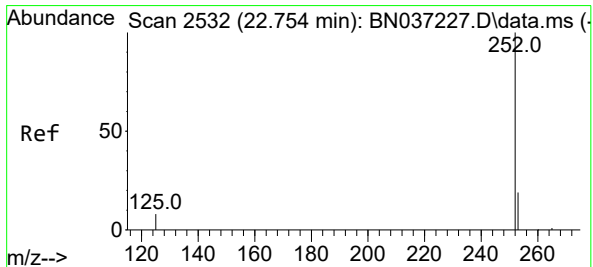
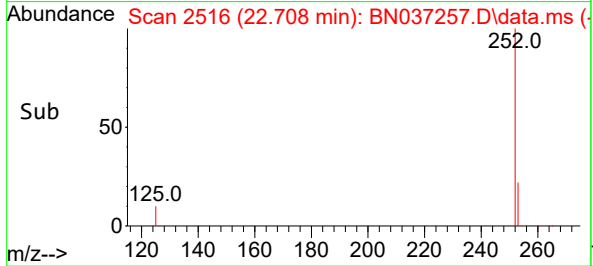
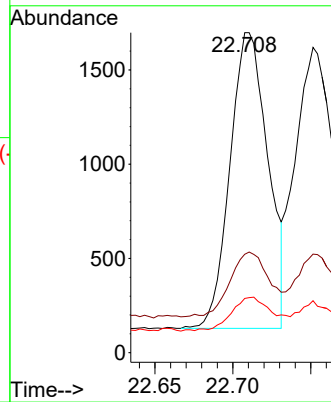
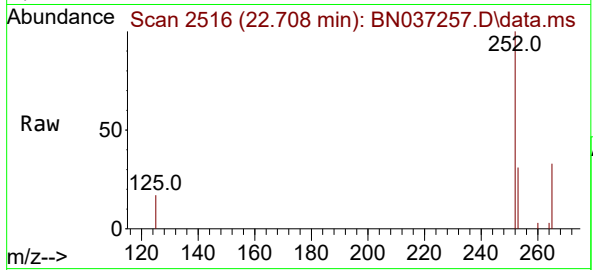
Tgt Ion:252 Resp: 2661

Ion Ratio Lower Upper

252 100

253 30.7 24.9 37.3

125 17.0 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.373 ng

RT: 22.751 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

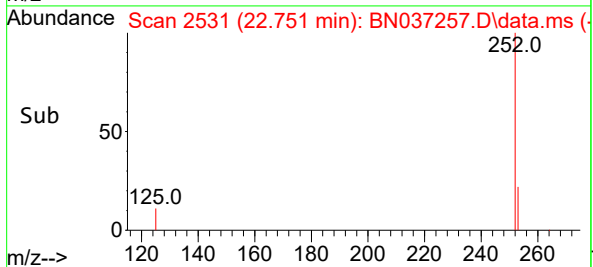
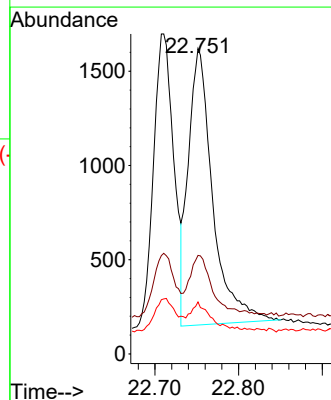
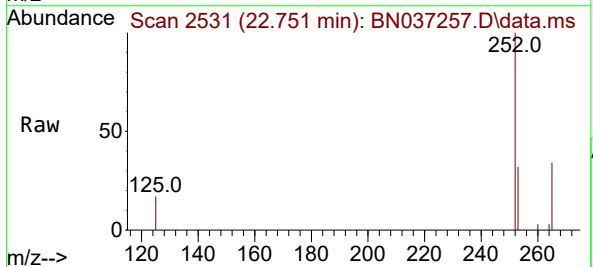
Tgt Ion:252 Resp: 2970

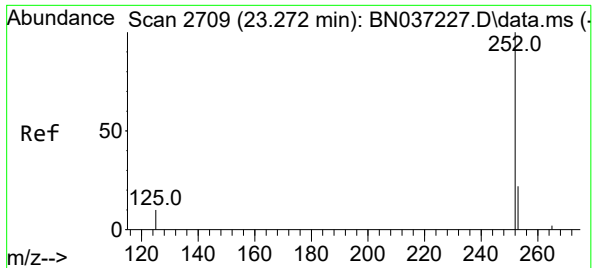
Ion Ratio Lower Upper

252 100

253 32.3 24.6 37.0

125 17.0 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

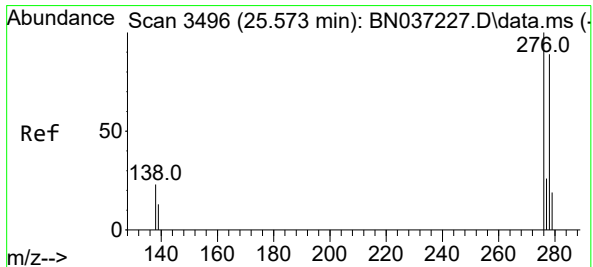
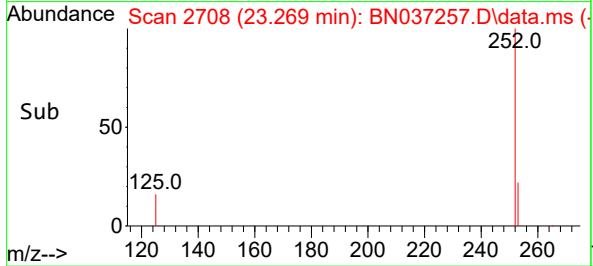
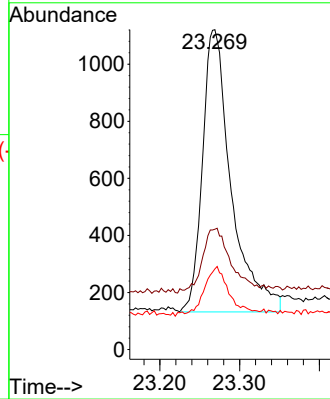
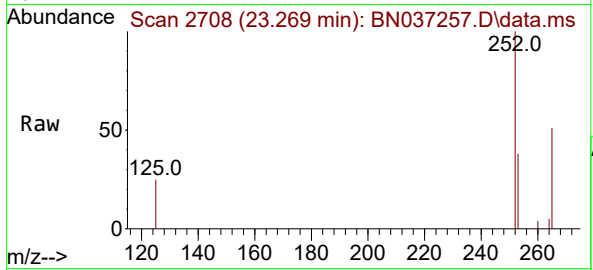
Tgt Ion:252 Resp: 2477

Ion Ratio Lower Upper

252 100

253 37.6 29.4 44.2

125 25.2 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.404 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

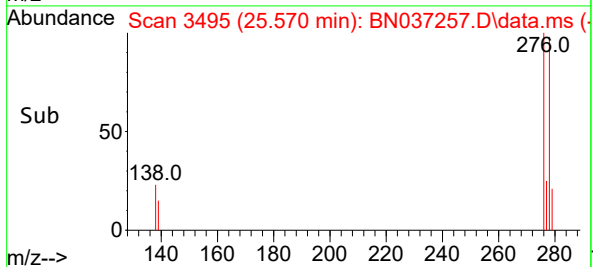
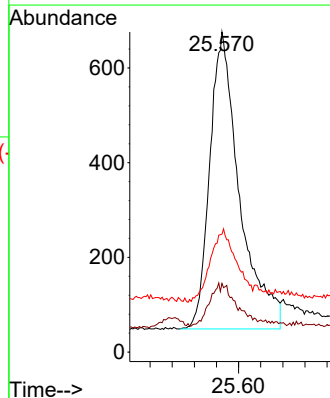
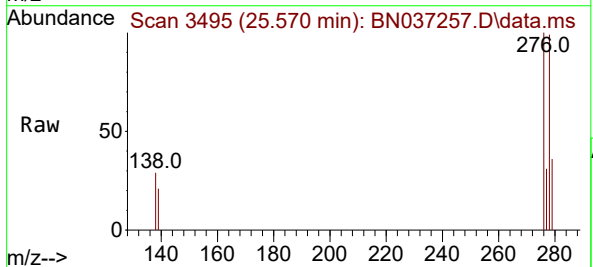
Tgt Ion:278 Resp: 2342

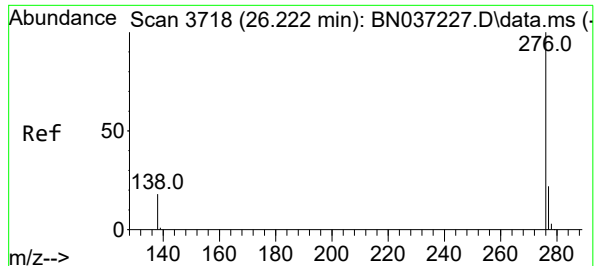
Ion Ratio Lower Upper

278 100

139 21.4 17.8 26.6

279 36.8 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.213 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037257.D

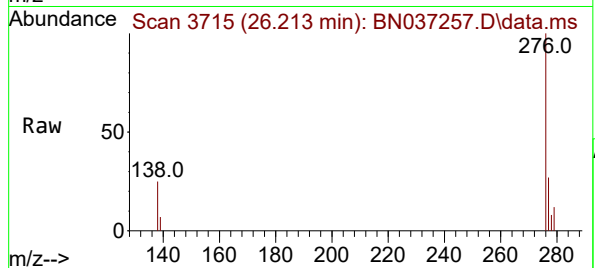
Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



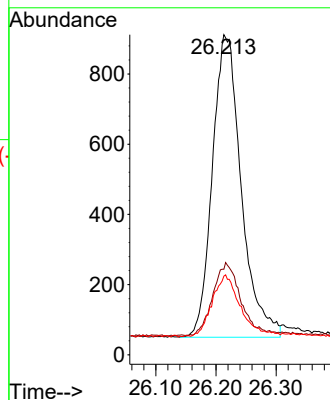
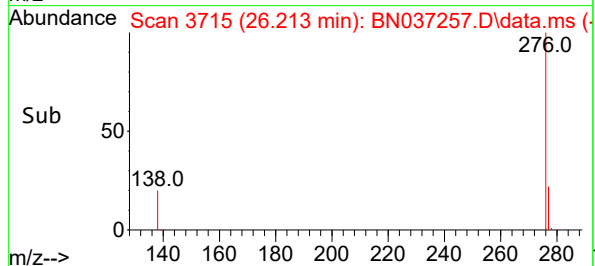
Tgt Ion:276 Resp: 2869

Ion Ratio Lower Upper

276 100

277 26.8 22.0 33.0

138 24.6 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037257.D
 Acq On : 14 Jun 2025 10:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	87	0.00
2	1,4-Dioxane	0.549	0.503	8.4	84	0.00
3	n-Nitrosodimethylamine	1.250	1.307	-4.6	89	0.00
4 S	2-Fluorophenol	0.982	0.966	1.6	90	0.00
5 S	Phenol-d6	1.035	1.004	3.0	91	0.00
6	bis(2-Chloroethyl)ether	0.927	0.927	0.0	93	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.395	0.401	-1.5	87	0.00
9	Naphthalene	1.158	1.147	0.9	84	0.00
10	Hexachlorobutadiene	0.282	0.295	-4.6	82	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.557	-3.7	83	0.00
12	2-Methylnaphthalene	0.704	0.669	5.0	79	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.166	0.169	-1.8	77	0.00
15 S	2-Fluorobiphenyl	1.681	1.713	-1.9	79	0.00
16	Acenaphthylene	1.960	1.872	4.5	78	0.00
17	Acenaphthene	1.265	1.225	3.2	77	0.00
18	Fluorene	1.625	1.520	6.5	74	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21	4-Bromophenyl-phenylether	0.261	0.251	3.8	76	0.00
22	Hexachlorobenzene	0.302	0.305	-1.0	72	0.00
23	Atrazine	0.232	0.224	3.4	75	-0.01
24	Pentachlorophenol	0.148	0.145	2.0	86	0.00
25	Phenanthrene	1.269	1.213	4.4	76	0.00
26	Anthracene	1.161	1.113	4.1	76	0.00
27 SURR	Fluoranthene-d10	1.046	1.058	-1.1	74	0.00
28	Fluoranthene	1.485	1.387	6.6	73	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	79	0.00
30	Pyrene	1.881	1.864	0.9	75	0.00
31 S	Terphenyl-d14	0.904	0.905	-0.1	75	0.00
32	Benzo(a)anthracene	1.351	1.321	2.2	85	0.00
33	Chrysene	1.683	1.705	-1.3	79	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.989	1.7	76	0.00
35 I	Perylene-d12	1.000	1.000	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.724	-6.9	100	0.00
37	Benzo(b)fluoranthene	1.463	1.409	3.7	90	0.00
38	Benzo(k)fluoranthene	1.689	1.573	6.9	85	0.00
39 C	Benzo(a)pyrene	1.316	1.312	0.3	93	0.00
40	Dibenzo(a,h)anthracene	1.227	1.240	-1.1	104	0.00
41	Benzo(g,h,i)perylene	1.496	1.520	-1.6	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037257.D
 Acq On : 14 Jun 2025 10:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	87	0.00
2	1,4-Dioxane	0.400	0.367	8.3	84	0.00
3	n-Nitrosodimethylamine	0.400	0.418	-4.5	89	0.00
4 S	2-Fluorophenol	0.400	0.393	1.8	90	0.00
5 S	Phenol-d6	0.400	0.388	3.0	91	0.00
6	bis(2-Chloroethyl)ether	0.400	0.400	0.0	93	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.400	0.406	-1.5	87	0.00
9	Naphthalene	0.400	0.396	1.0	84	0.00
10	Hexachlorobutadiene	0.400	0.419	-4.7	82	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.415	-3.7	83	0.00
12	2-Methylnaphthalene	0.400	0.380	5.0	79	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.400	0.407	-1.7	77	0.00
15 S	2-Fluorobiphenyl	0.400	0.408	-2.0	79	0.00
16	Acenaphthylene	0.400	0.382	4.5	78	0.00
17	Acenaphthene	0.400	0.387	3.3	77	0.00
18	Fluorene	0.400	0.374	6.5	74	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.426	-6.5	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	76	0.00
22	Hexachlorobenzene	0.400	0.404	-1.0	72	0.00
23	Atrazine	0.400	0.386	3.5	75	-0.01
24	Pentachlorophenol	0.400	0.392	2.0	86	0.00
25	Phenanthrene	0.400	0.382	4.5	76	0.00
26	Anthracene	0.400	0.383	4.3	76	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	74	0.00
28	Fluoranthene	0.400	0.373	6.8	73	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	79	0.00
30	Pyrene	0.400	0.397	0.8	75	0.00
31 S	Terphenyl-d14	0.400	0.400	0.0	75	0.00
32	Benzo(a)anthracene	0.400	0.391	2.3	85	0.00
33	Chrysene	0.400	0.405	-1.3	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.393	1.8	76	0.00
35 I	Perylene-d12	0.400	0.400	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.427	-6.7	100	0.00
37	Benzo(b)fluoranthene	0.400	0.385	3.8	90	0.00
38	Benzo(k)fluoranthene	0.400	0.373	6.8	85	0.00
39 C	Benzo(a)pyrene	0.400	0.399	0.3	93	0.00
40	Dibenzo(a,h)anthracene	0.400	0.404	-1.0	104	0.00
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	93	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 13:23

Lab File ID: BN037259.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.549		2.2	20.0
Fluoranthene-d10	1.047	1.028		-1.7	20.0
2-Fluorophenol	0.982	0.983		0.1	20.0
Phenol-d6	1.035	1.050		1.4	20.0
Nitrobenzene-d5	0.395	0.417		5.6	20.0
2-Fluorobiphenyl	1.681	1.791		6.5	20.0
2,4,6-Tribromophenol	0.166	0.181		9.0	20.0
Terphenyl-d14	0.904	0.907		0.3	20.0
1,4-Dioxane	0.549	0.538		-2.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037259.D
 Acq On : 14 Jun 2025 13:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

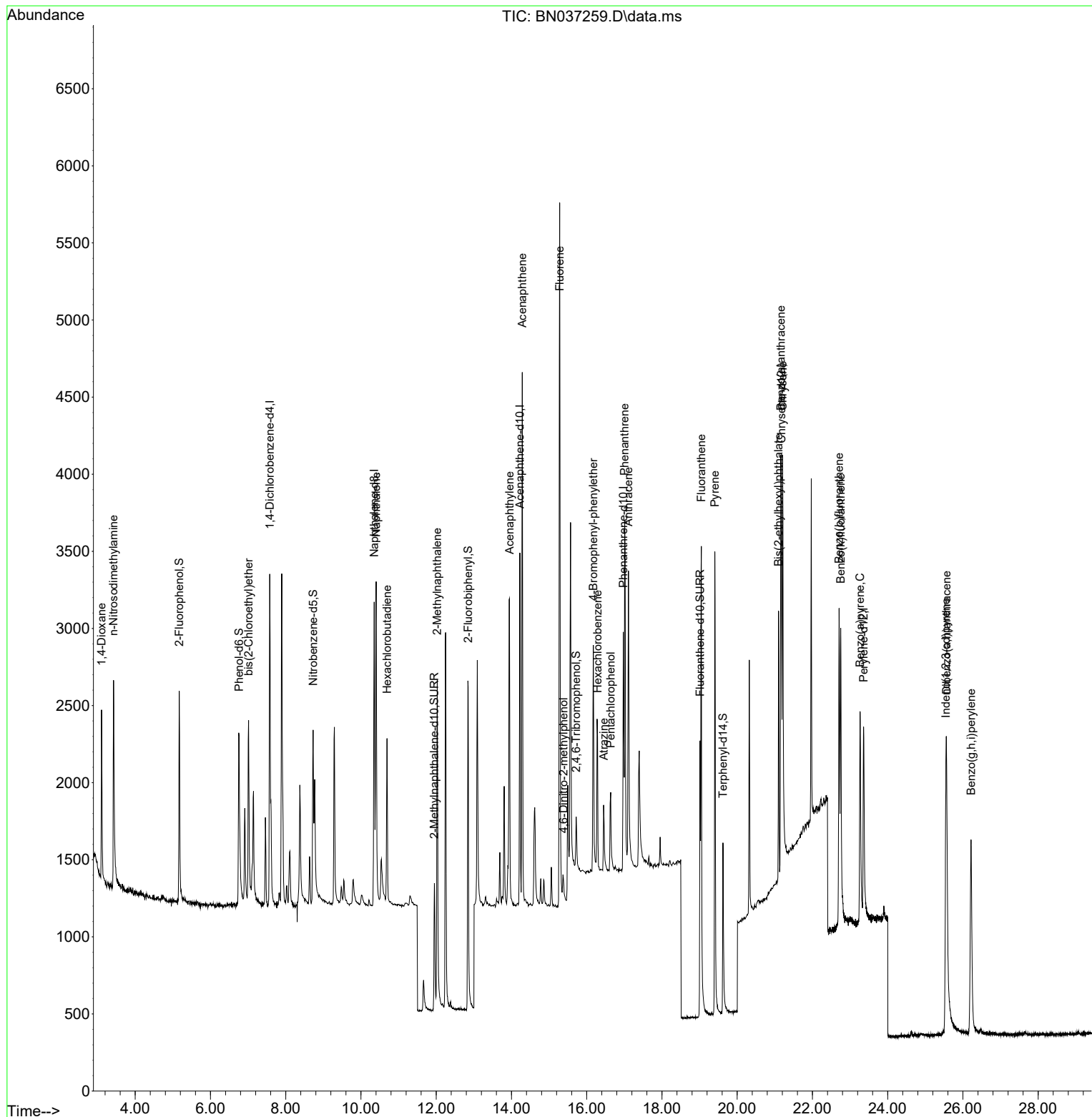
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1044	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2562	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1268	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2318	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1702	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1789	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1026	0.400	ng	0.00
5) Phenol-d6	6.759	99	1096	0.406	ng	0.00
8) Nitrobenzene-d5	8.728	82	1069	0.422	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1407	0.409	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	230	0.437	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	2271	0.426	ng	0.00
27) Fluoranthene-d10	19.012	212	2382	0.393	ng	0.00
31) Terphenyl-d14	19.621	244	1544	0.401	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	562	0.392	ng	92
3) n-Nitrosodimethylamine	3.422	42	1426	0.437	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	1026	0.424	ng	94
9) Naphthalene	10.404	128	2969	0.400	ng	100
10) Hexachlorobutadiene	10.693	225	761	0.422	ng	# 97
12) 2-Methylnaphthalene	12.026	142	1778	0.394	ng	97
16) Acenaphthylene	13.946	152	2462	0.396	ng	99
17) Acenaphthene	14.288	154	1581	0.394	ng	98
18) Fluorene	15.282	166	1985	0.385	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	199	0.443	ng	90
21) 4-Bromophenyl-phenylether	16.177	248	578	0.383	ng	88
22) Hexachlorobenzene	16.289	284	670	0.383	ng	94
23) Atrazine	16.450	200	489	0.363	ng	# 95
24) Pentachlorophenol	16.636	266	367	0.428	ng	94
25) Phenanthrene	17.009	178	2788	0.379	ng	98
26) Anthracene	17.108	178	2496	0.371	ng	99
28) Fluoranthene	19.045	202	3112	0.362	ng	98
30) Pyrene	19.407	202	3140	0.392	ng	100
32) Benzo(a)anthracene	21.162	228	2322	0.404	ng	99
33) Chrysene	21.206	228	2833	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1690	0.395	ng	98
36) Indeno(1,2,3-cd)pyrene	25.547	276	3038	0.421	ng	99
37) Benzo(b)fluoranthene	22.708	252	2598	0.397	ng	99
38) Benzo(k)fluoranthene	22.752	252	2852	0.378	ng	99
39) Benzo(a)pyrene	23.266	252	2372	0.403	ng	96
40) Dibenzo(a,h)anthracene	25.561	278	2198	0.401	ng	97
41) Benzo(g,h,i)perylene	26.216	276	2747	0.411	ng	97

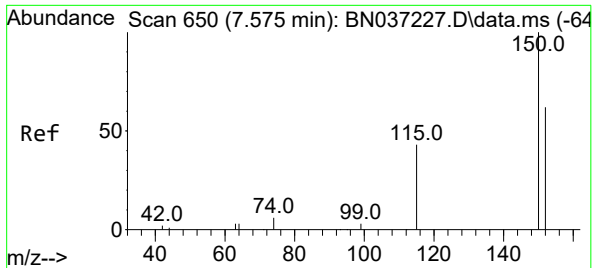
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037259.D
 Acq On : 14 Jun 2025 13:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

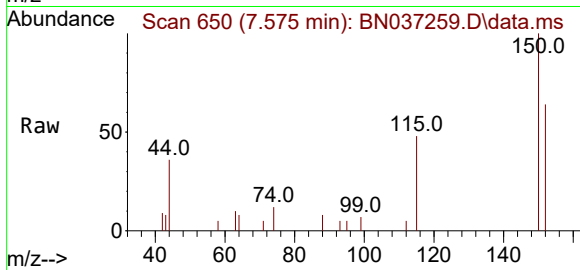
Quant Time: Jun 16 02:42:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration



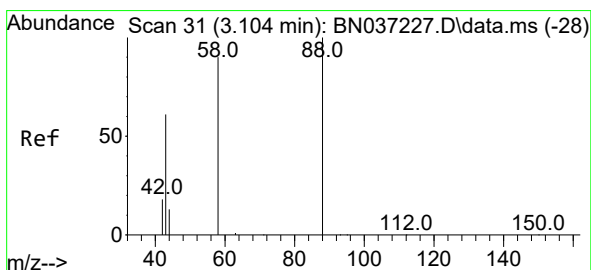
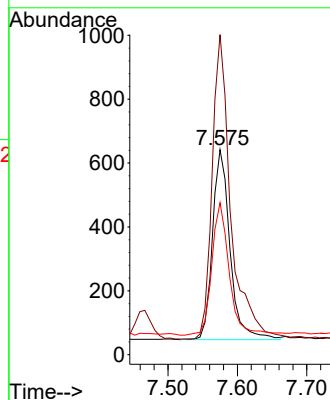
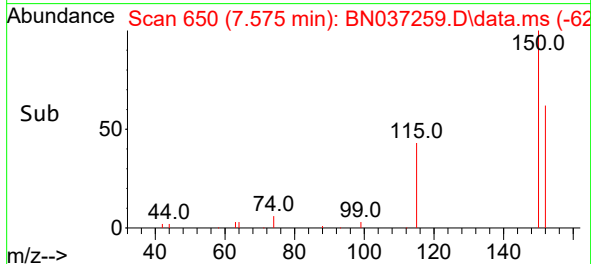


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037259.D
 Acq: 14 Jun 2025 13:23

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

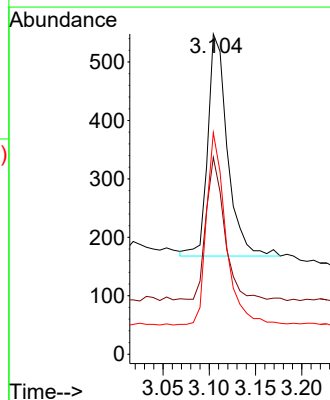
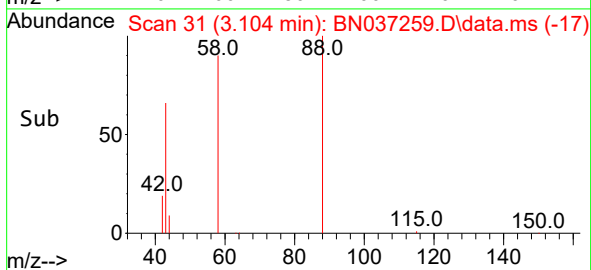
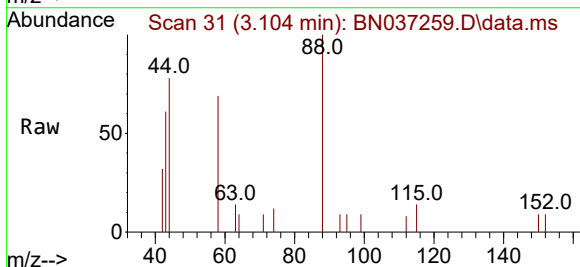


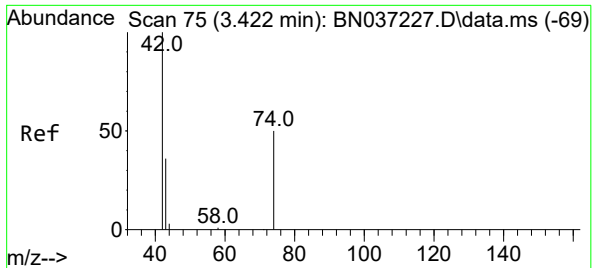
Tgt Ion:152 Resp: 1044
 Ion Ratio Lower Upper
 152 100
 150 156.1 125.2 187.8
 115 74.1 58.4 87.6



#2
 1,4-Dioxane
 Concen: 0.392 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037259.D
 Acq: 14 Jun 2025 13:23

Tgt Ion: 88 Resp: 562
 Ion Ratio Lower Upper
 88 100
 43 59.3 52.6 79.0
 58 85.2 73.5 110.3

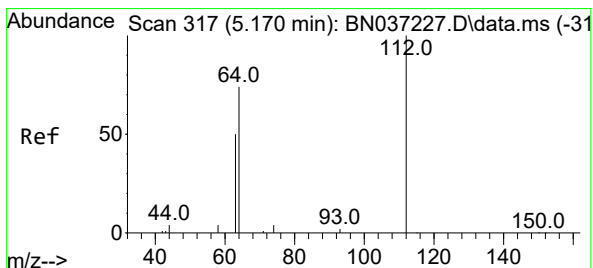
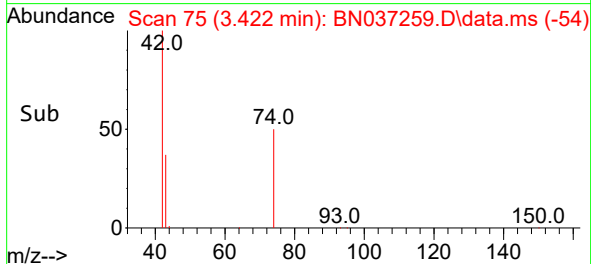
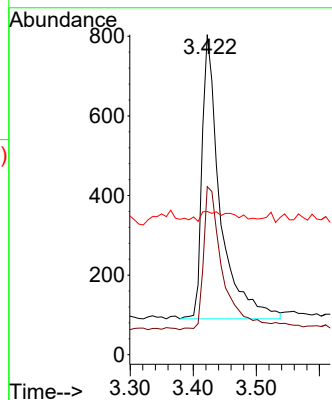
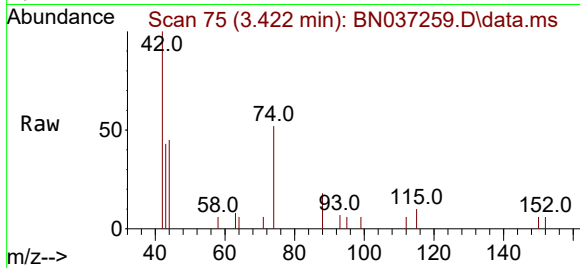




#3
n-Nitrosodimethylamine
Concen: 0.437 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

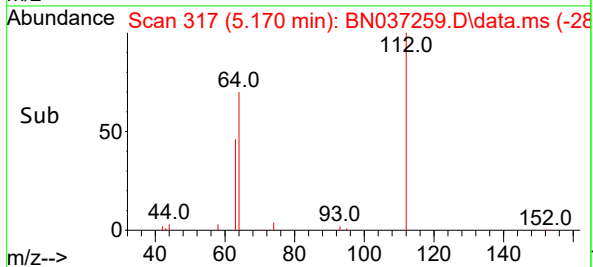
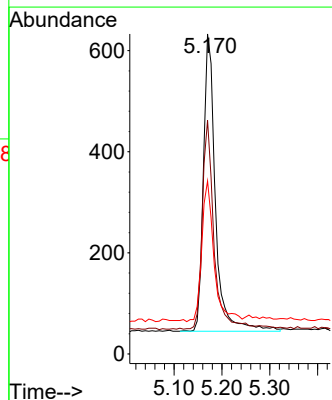
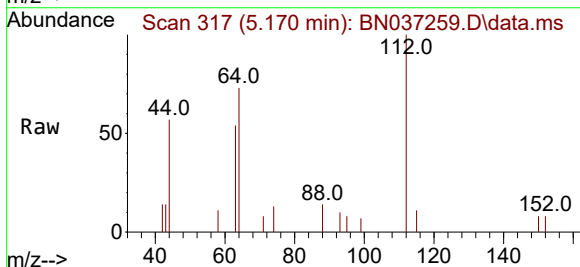
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

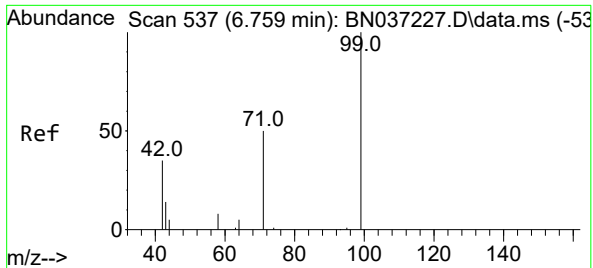
Tgt Ion: 42 Resp: 1426
Ion Ratio Lower Upper
42 100
74 53.4 44.6 66.8
44 2.7 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion: 112 Resp: 1026
Ion Ratio Lower Upper
112 100
64 68.1 57.2 85.8
63 47.9 39.8 59.6

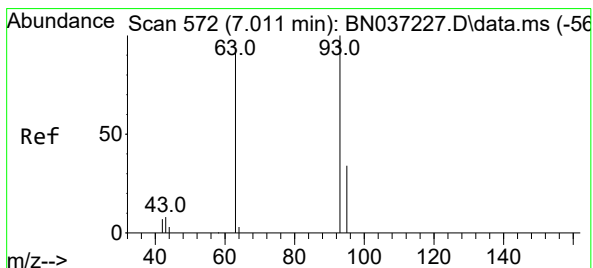
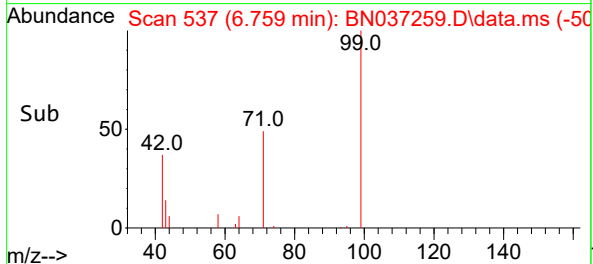
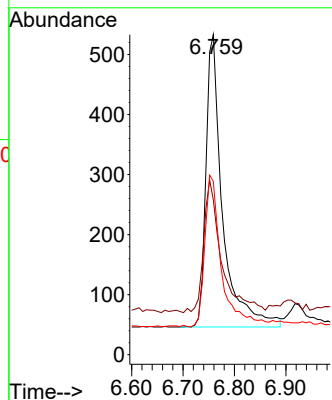
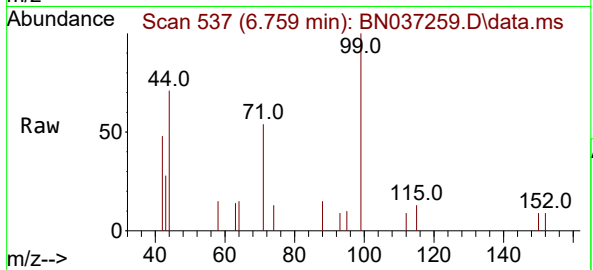




#5
Phenol-d6
Concen: 0.406 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

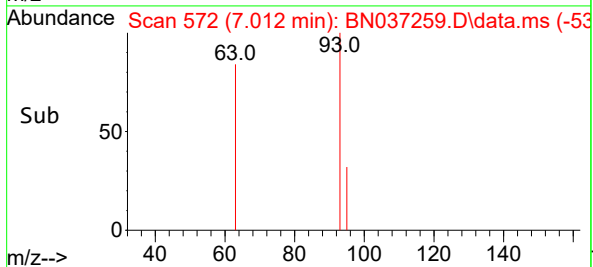
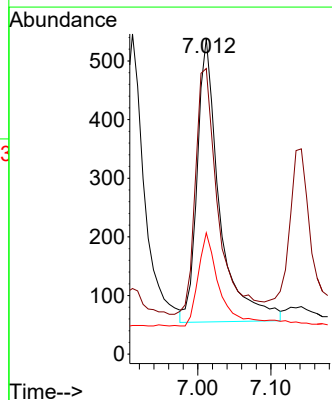
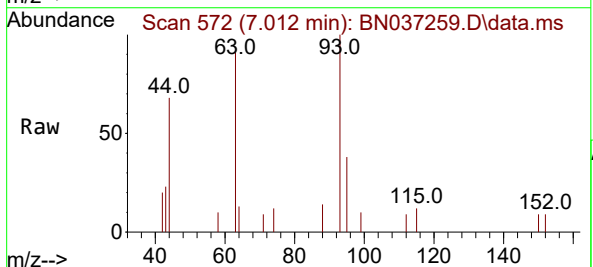
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

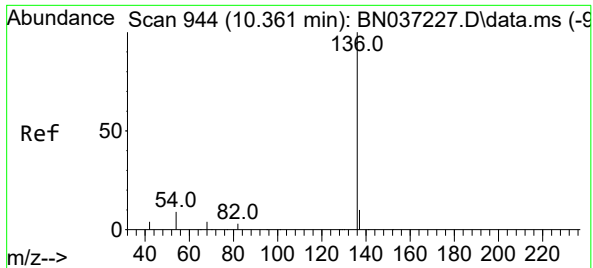
Tgt Ion	Ratio	Lower	Upper
99	100		
42	48.5	36.2	54.4
71	52.5	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.424 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.1	75.2	112.8
95	31.0	28.3	42.5

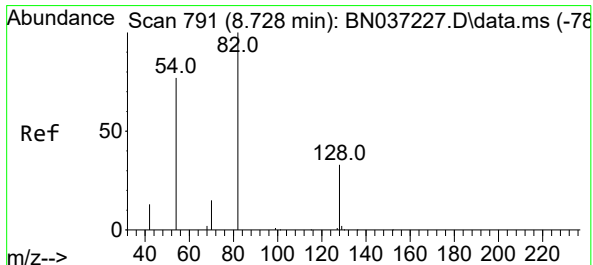
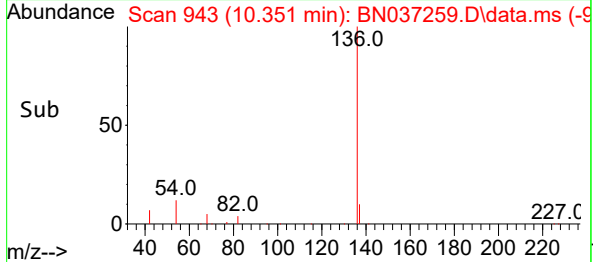
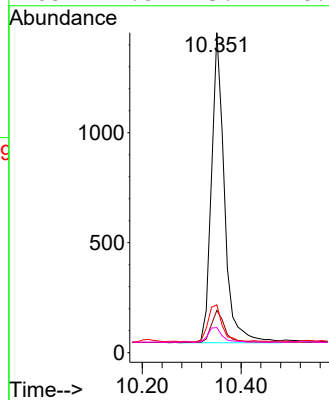
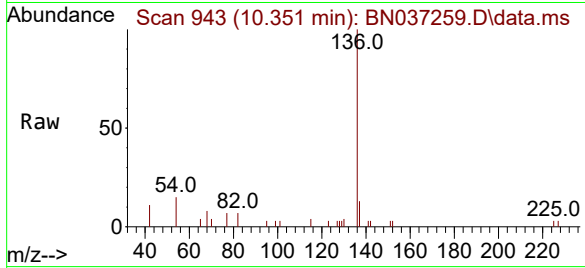




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

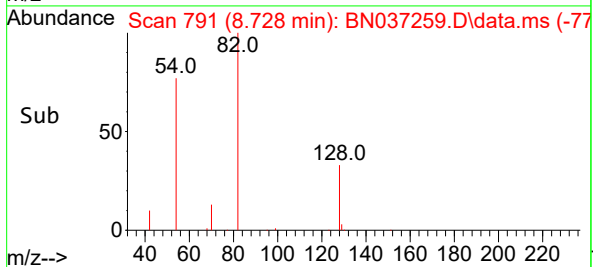
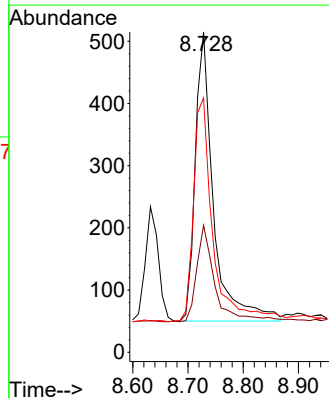
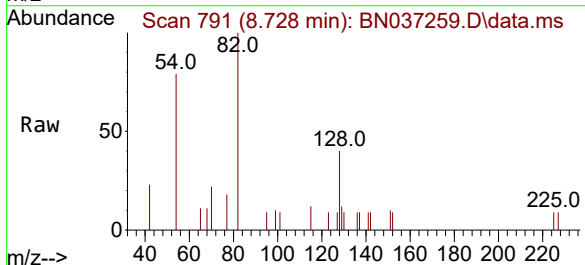
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

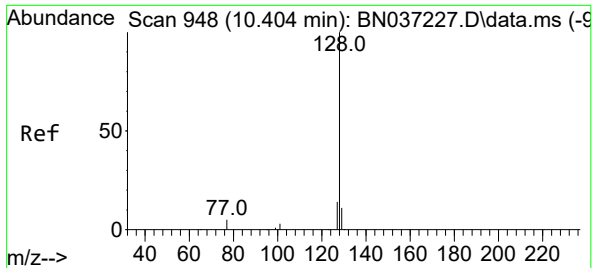
Tgt Ion:	136	Resp:	2562
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	14.9	9.2	13.8
68	7.8	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.422 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:	82	Resp:	1069
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.2	46.8
54	79.4	63.3	94.9

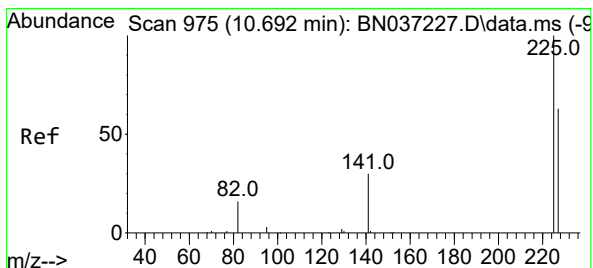
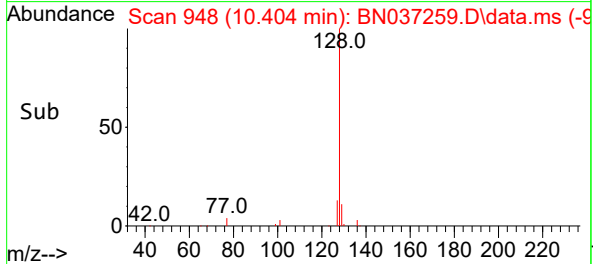
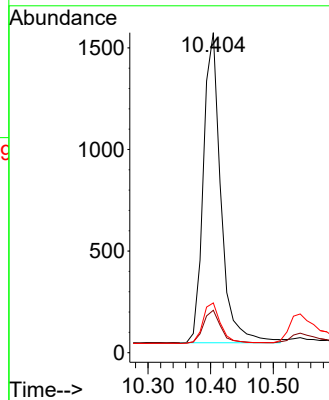
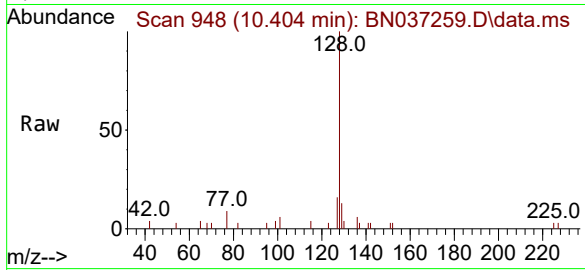




#9
Naphthalene
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

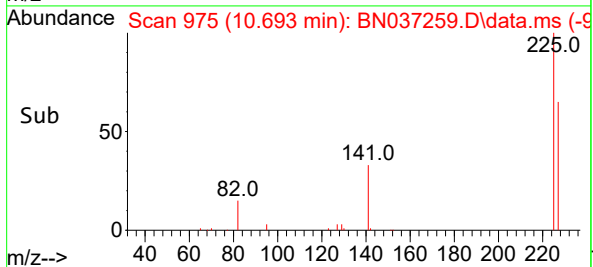
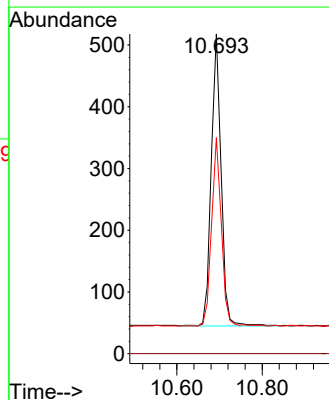
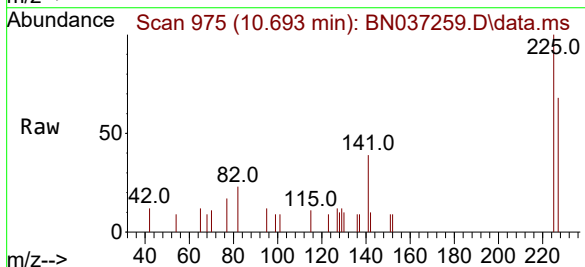
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

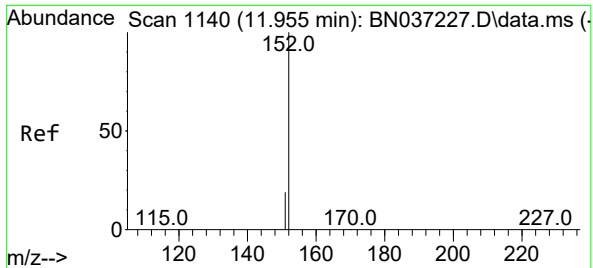
Tgt Ion:	128	Resp:	2969
Ion	Ratio	Lower	Upper
128	100		
129	13.3	10.7	16.1
127	15.6	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.422 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:	225	Resp:	761
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	49.2	73.8

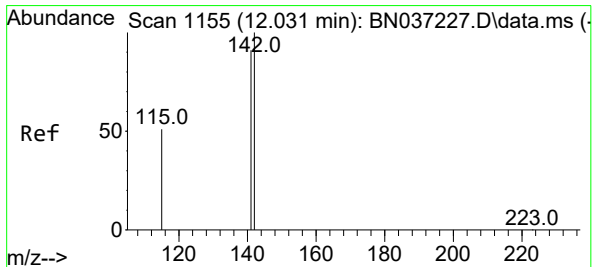
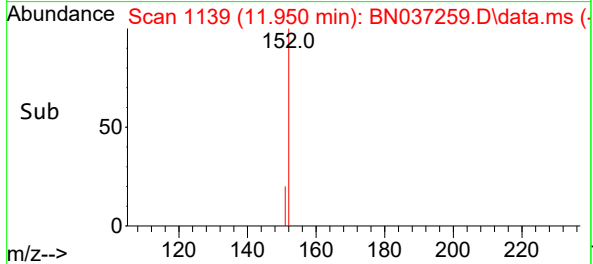
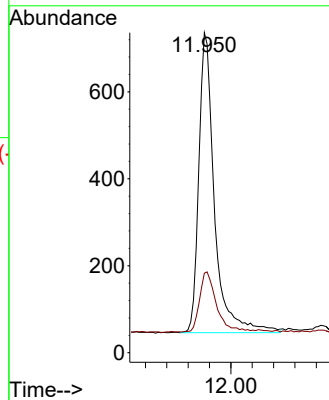
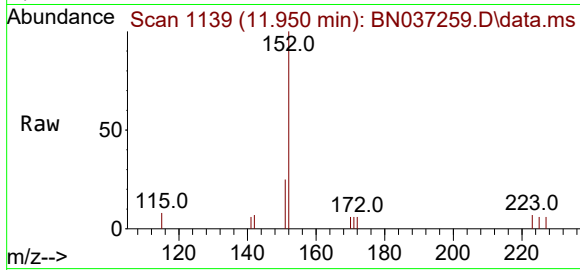




#11
2-Methylnaphthalene-d10
Concen: 0.409 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

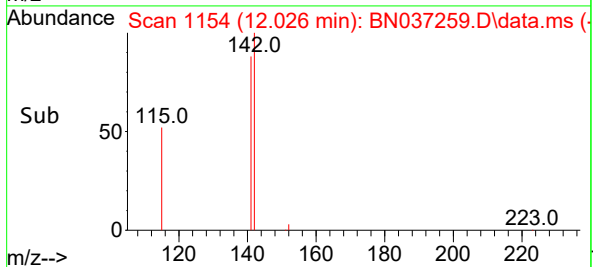
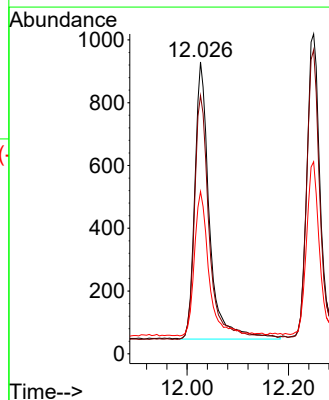
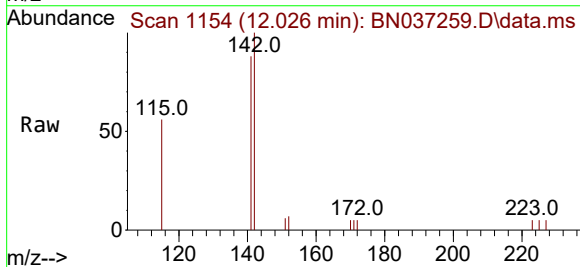
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

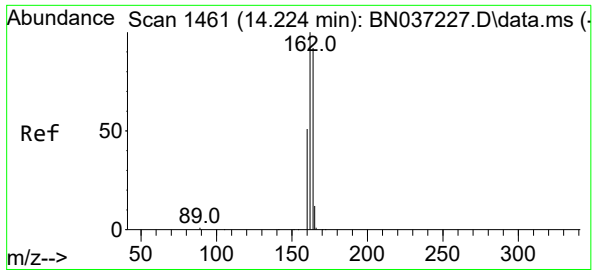
Tgt Ion:152 Resp: 1407
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:142 Resp: 1778
Ion Ratio Lower Upper
142 100
141 88.5 73.0 109.6
115 55.6 43.3 64.9

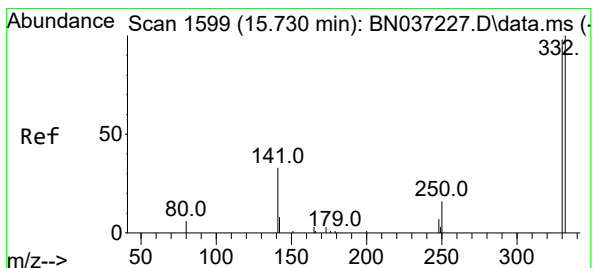
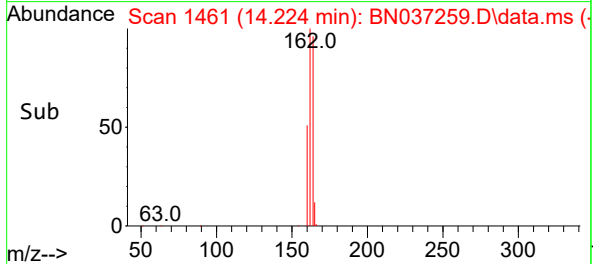
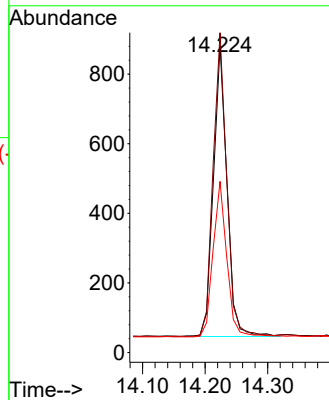
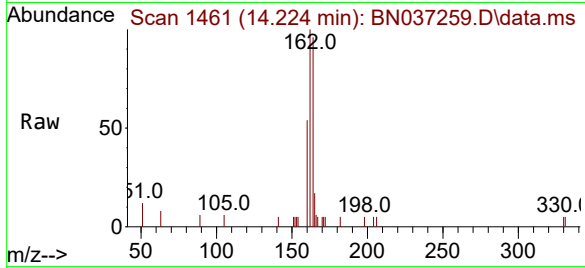




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

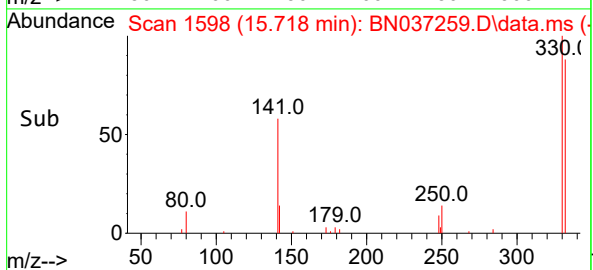
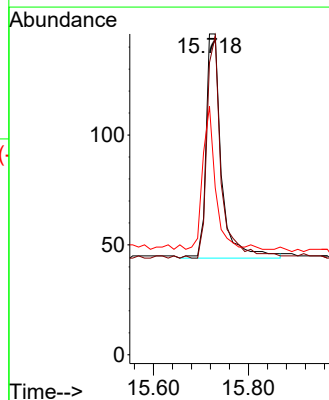
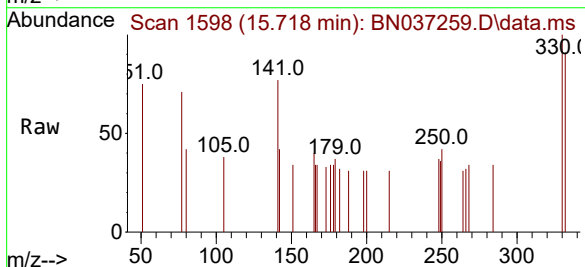
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

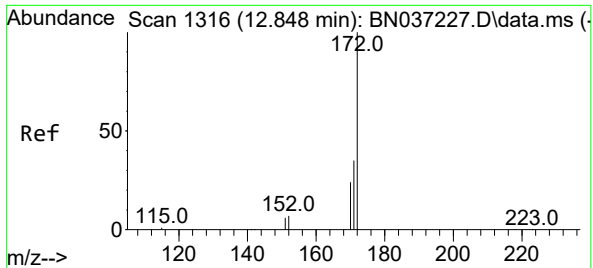
Tgt Ion:164 Resp: 1268
Ion Ratio Lower Upper
164 100
162 104.2 86.7 130.1
160 55.8 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.437 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:330 Resp: 230
Ion Ratio Lower Upper
330 100
332 92.2 74.9 112.3
141 52.6 45.1 67.7

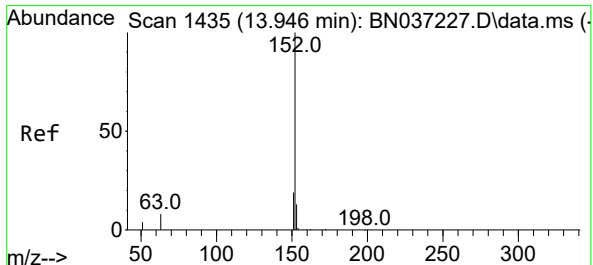
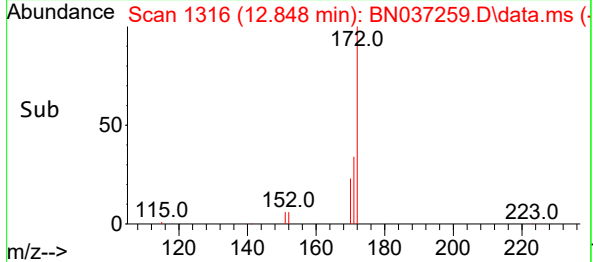
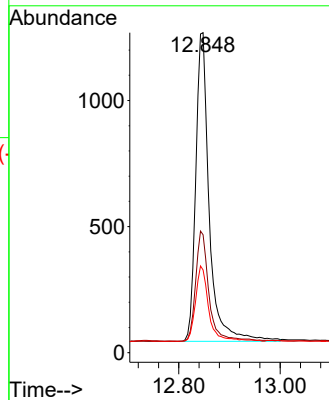
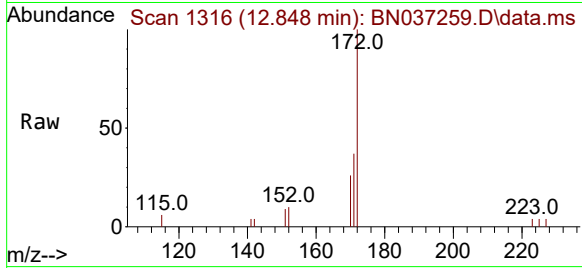




#15
2-Fluorobiphenyl
Concen: 0.426 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

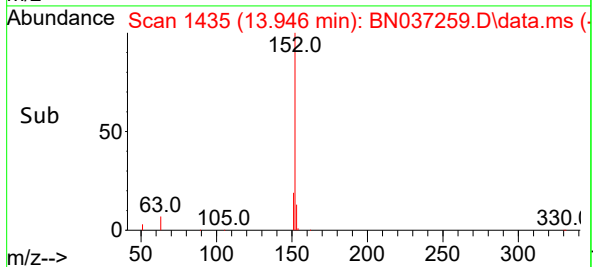
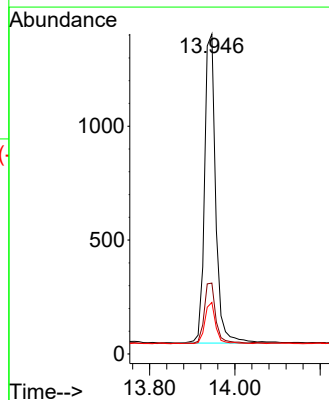
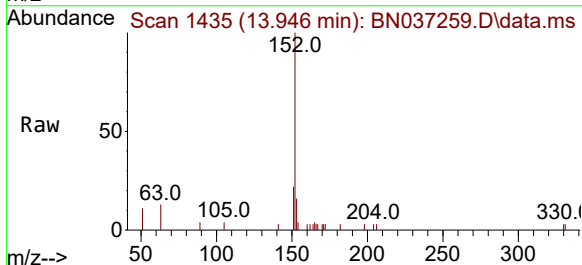
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

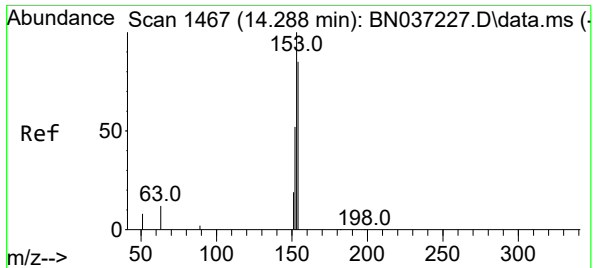
Tgt Ion:	172	Resp:	2271
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.8	44.8
170	25.8	21.1	31.7



#16
Acenaphthylene
Concen: 0.396 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:	152	Resp:	2462
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.3	10.7	16.1

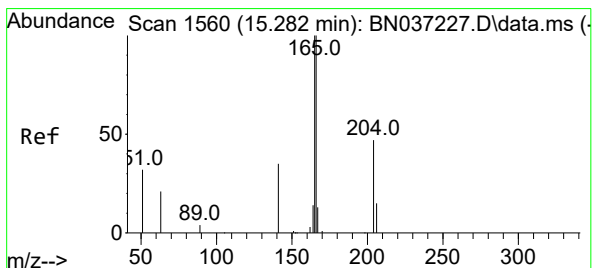
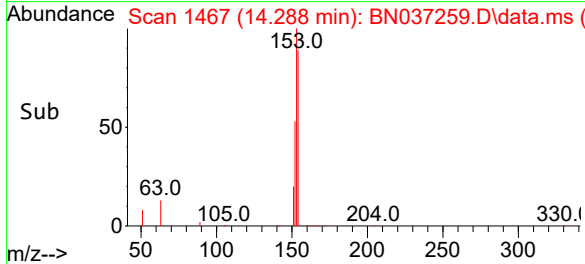
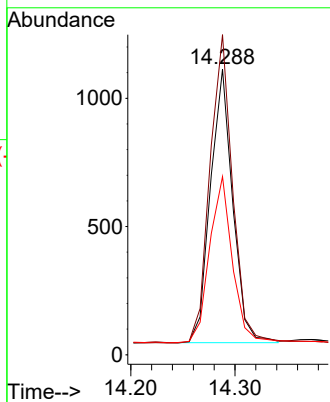
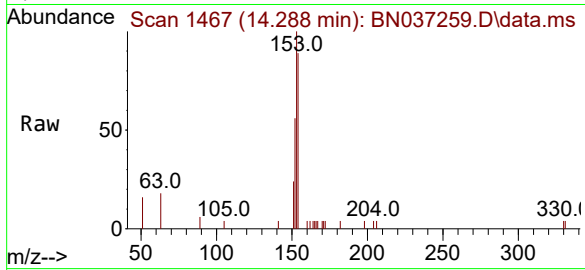




#17
Acenaphthene
Concen: 0.394 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

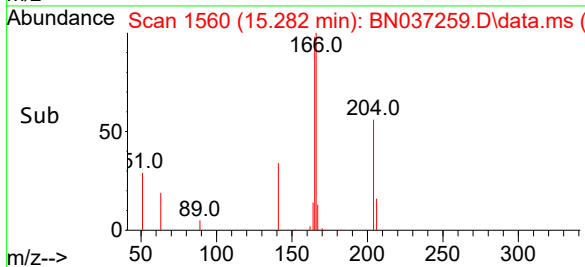
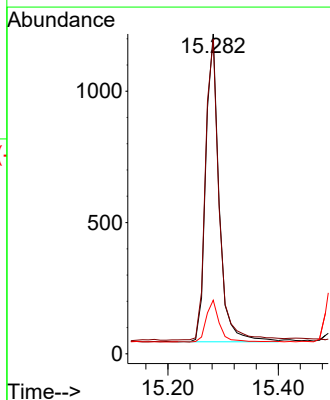
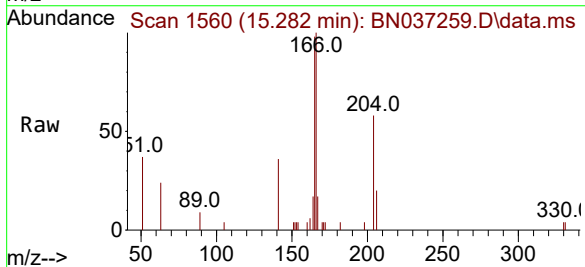
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

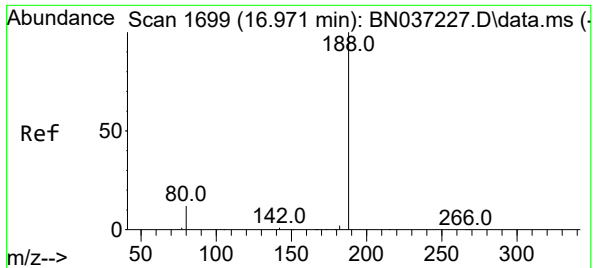
Tgt Ion:154 Resp: 1581
Ion Ratio Lower Upper
154 100
153 115.4 94.6 141.8
152 63.3 49.6 74.4



#18
Fluorene
Concen: 0.385 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:166 Resp: 1985
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

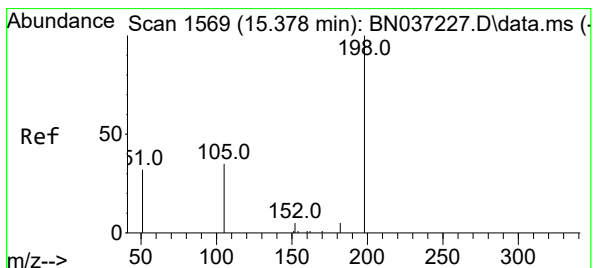
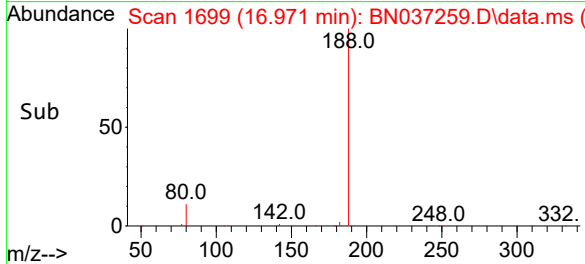
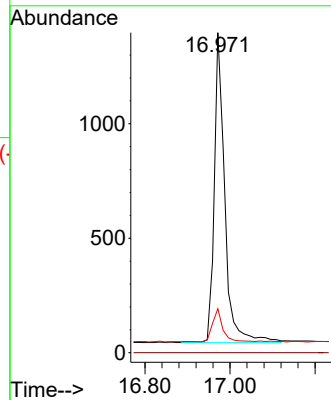
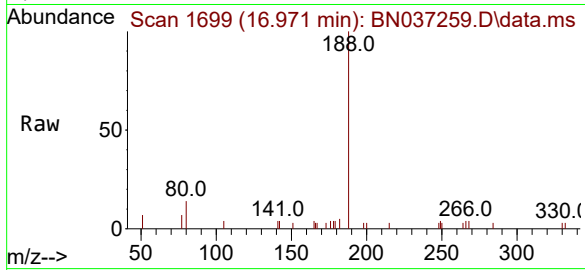
Tgt Ion:188 Resp: 2318

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.443 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

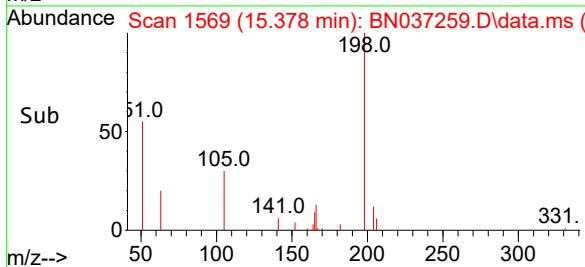
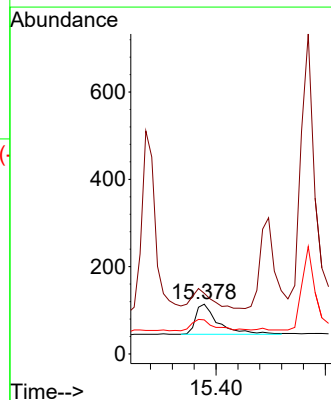
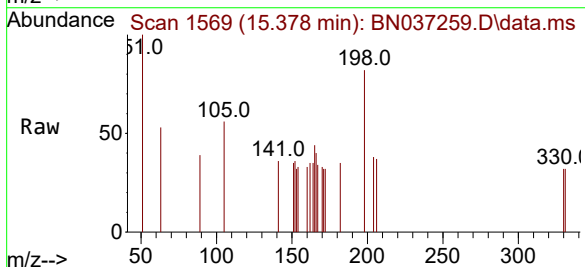
Tgt Ion:198 Resp: 199

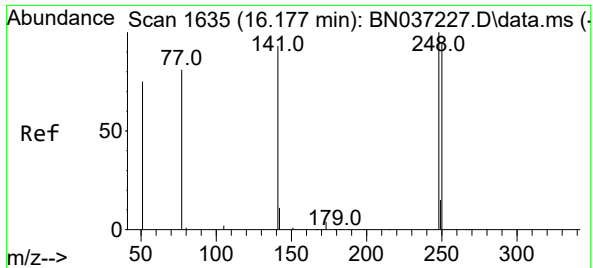
Ion Ratio Lower Upper

198 100

51 121.9 111.2 166.8

105 68.4 54.0 81.0

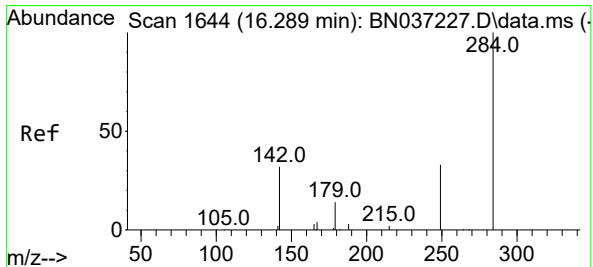
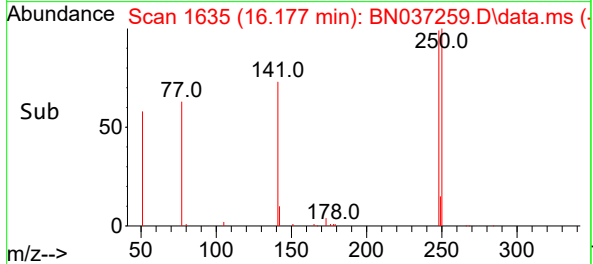
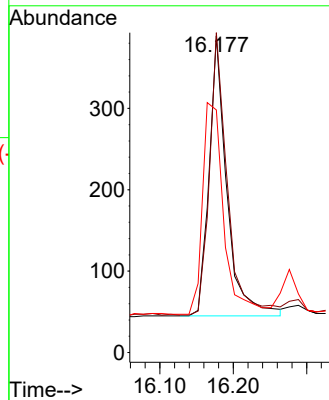
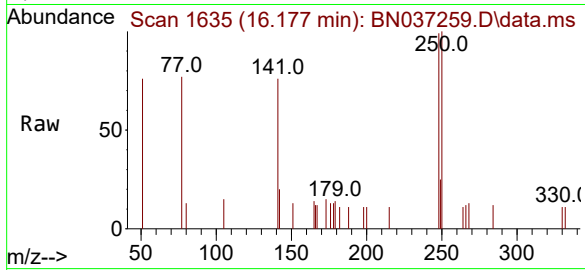




#21
4-Bromophenyl-phenylether
Concen: 0.383 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

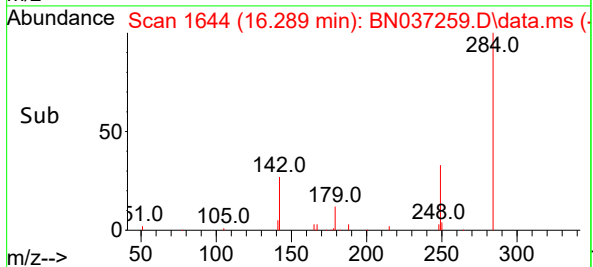
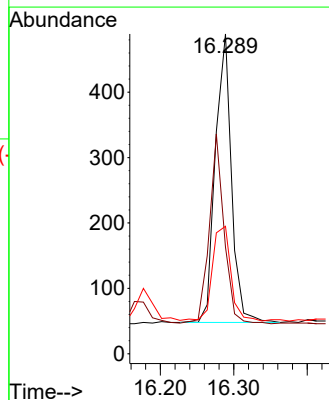
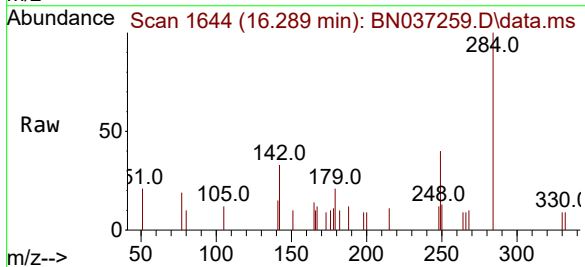
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

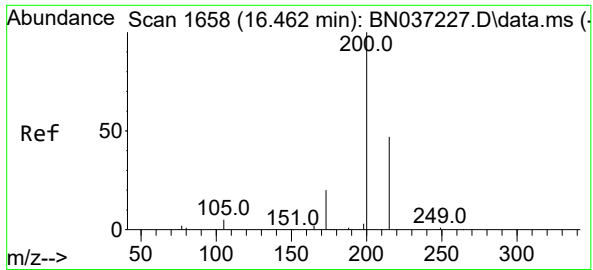
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.0	76.8	115.2
141	76.6	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion	Ratio	Lower	Upper
284	100		
142	60.3	43.8	65.6
249	37.5	28.4	42.6





#23

Atrazine

Concen: 0.363 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

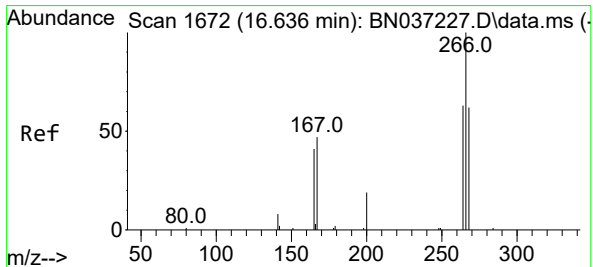
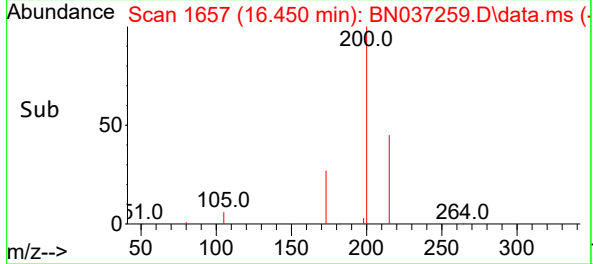
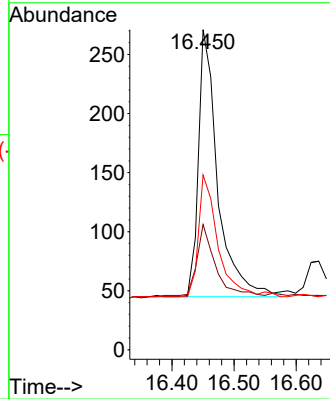
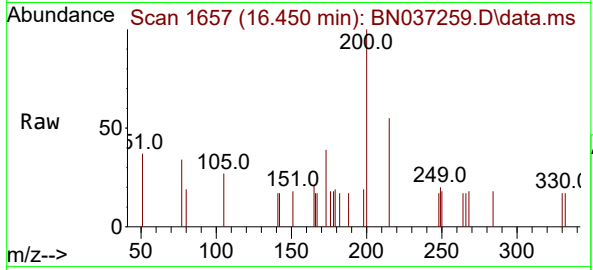
Tgt Ion:200 Resp: 489

Ion Ratio Lower Upper

200 100

173 39.1 25.1 37.7#

215 54.6 43.7 65.5



#24

Pentachlorophenol

Concen: 0.428 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

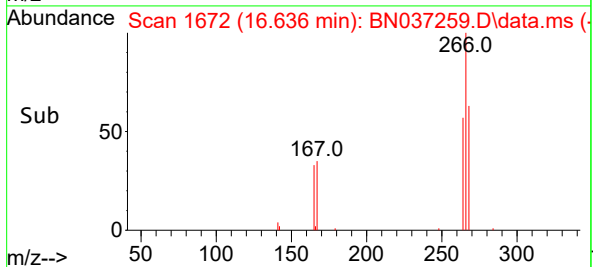
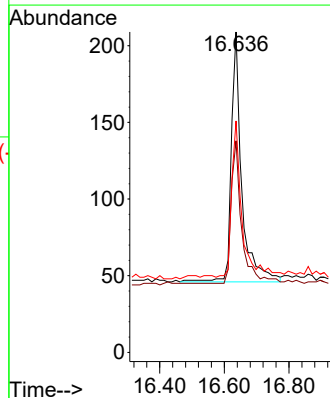
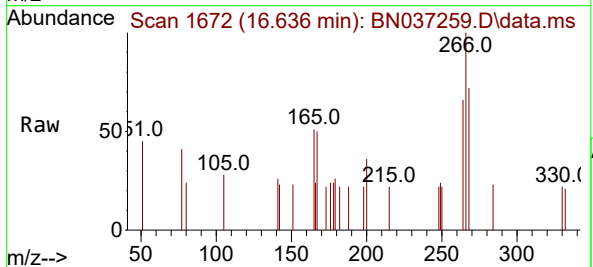
Tgt Ion:266 Resp: 367

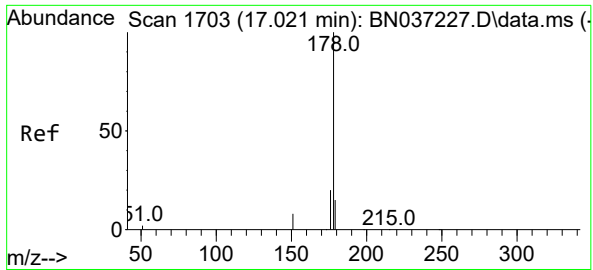
Ion Ratio Lower Upper

266 100

264 56.9 49.2 73.8

268 62.1 53.4 80.2

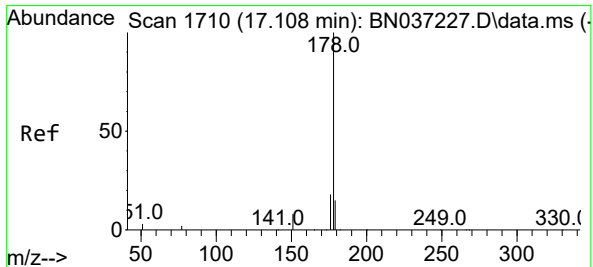
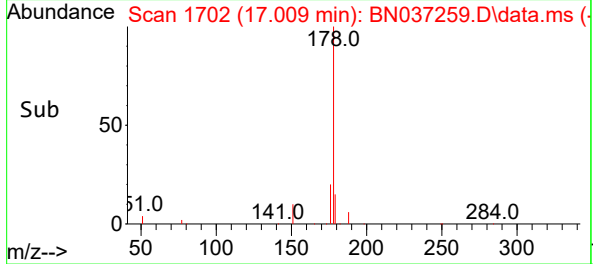
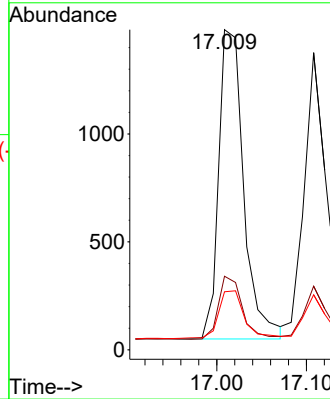
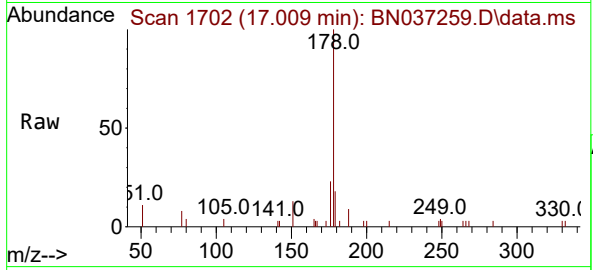




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

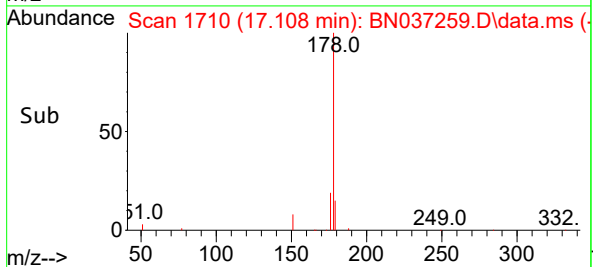
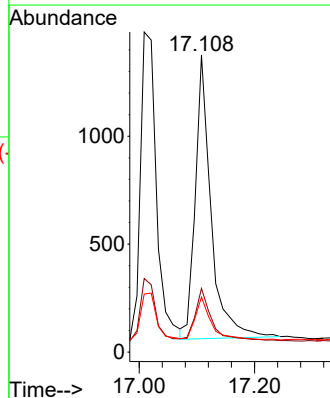
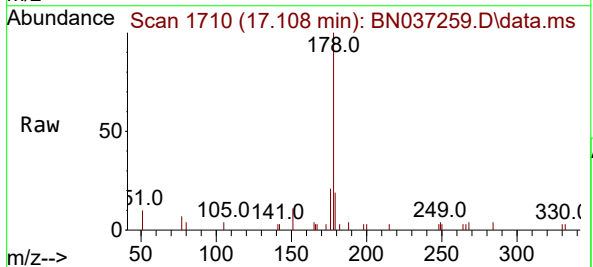
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

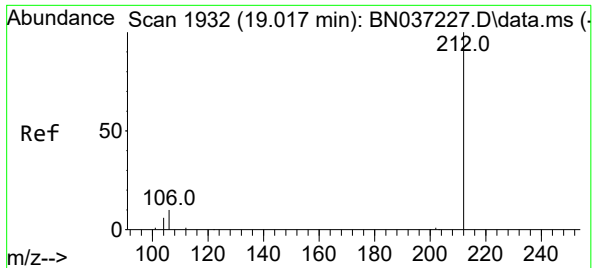
Tgt Ion:178 Resp: 2788
Ion Ratio Lower Upper
178 100
176 19.5 16.3 24.5
179 16.3 12.6 18.8



#26
Anthracene
Concen: 0.371 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:178 Resp: 2496
Ion Ratio Lower Upper
178 100
176 19.5 15.1 22.7
179 16.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

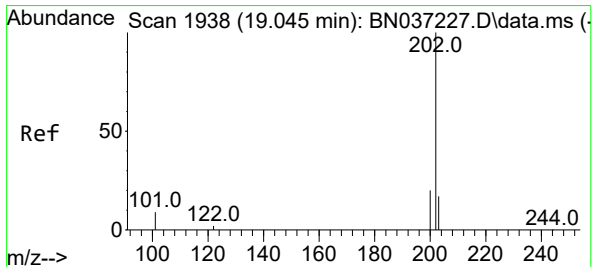
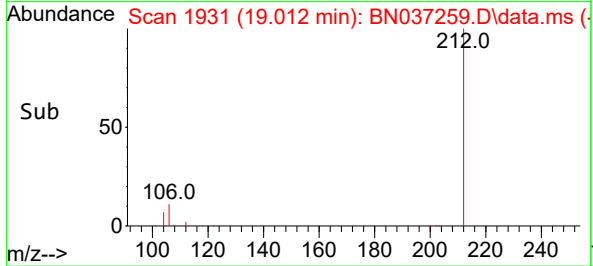
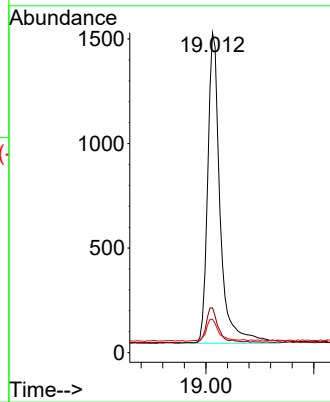
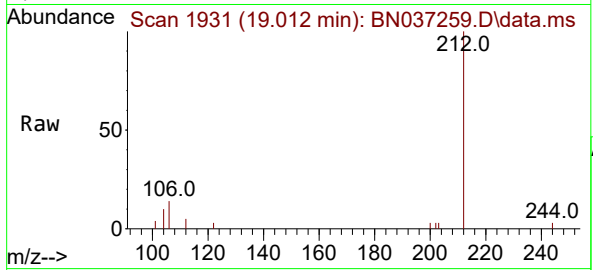
Tgt Ion:212 Resp: 2382

Ion Ratio Lower Upper

212 100

106 11.0 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

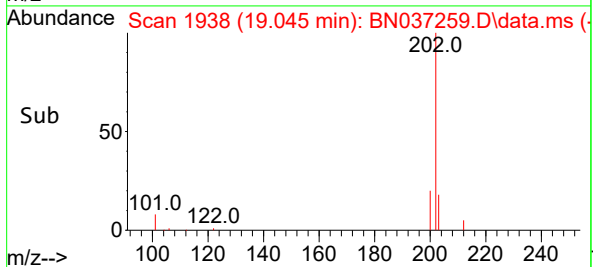
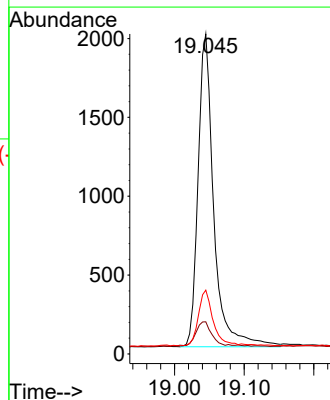
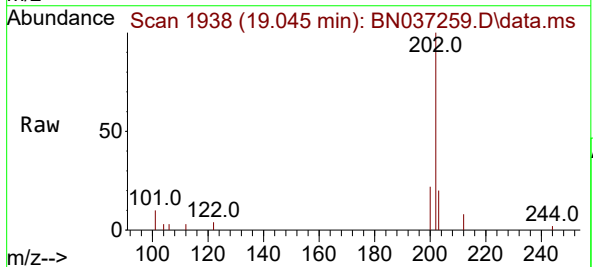
Tgt Ion:202 Resp: 3112

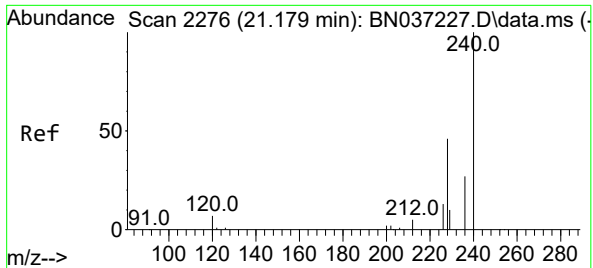
Ion Ratio Lower Upper

202 100

101 8.5 7.1 10.7

203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

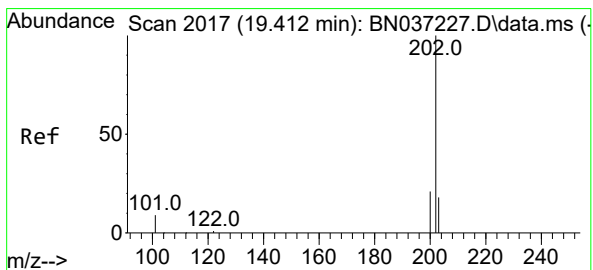
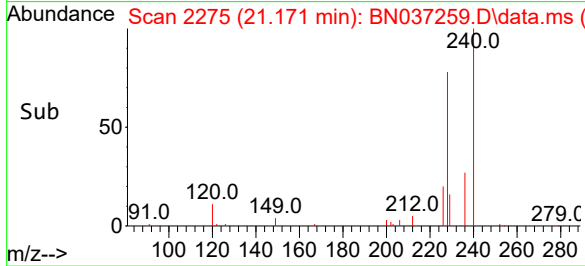
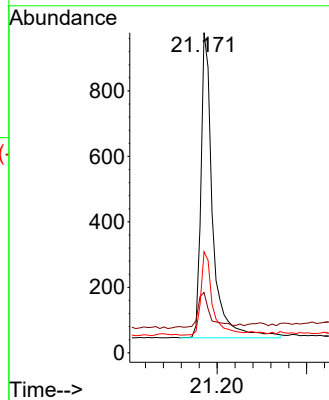
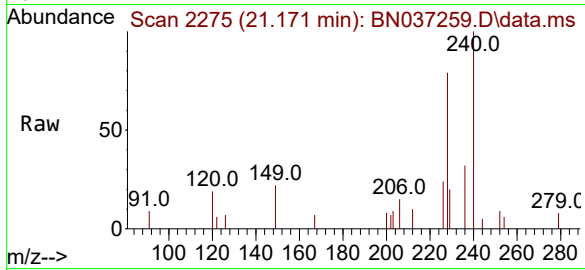
Tgt Ion:240 Resp: 1702

Ion Ratio Lower Upper

240 100

120 18.8 11.3 16.9#

236 31.6 24.4 36.6



#30

Pyrene

Concen: 0.392 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

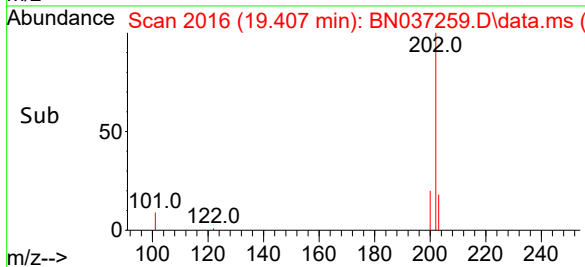
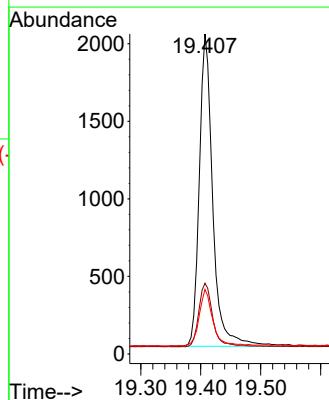
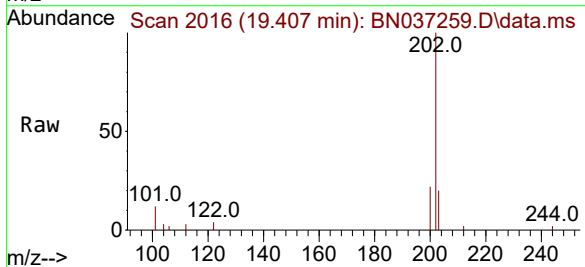
Tgt Ion:202 Resp: 3140

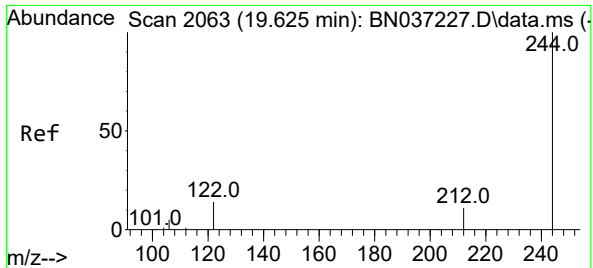
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 18.3 14.3 21.5

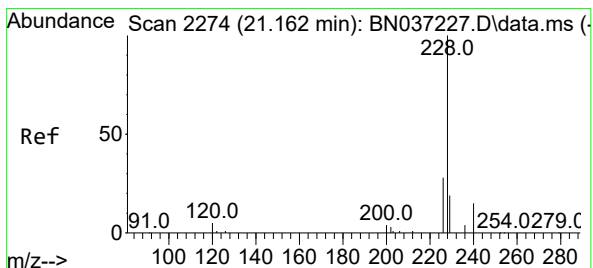
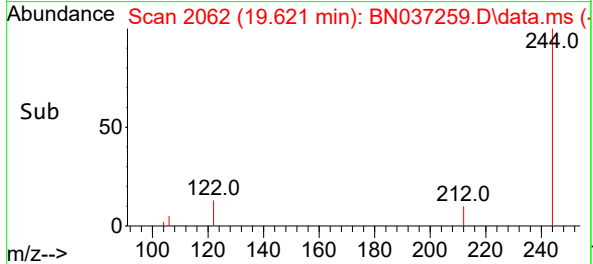
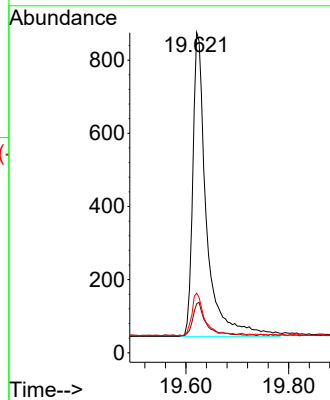
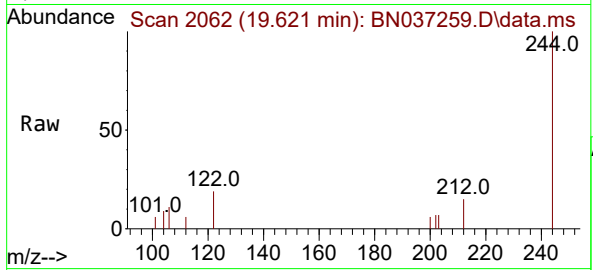




#31
Terphenyl-d14
Concen: 0.401 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

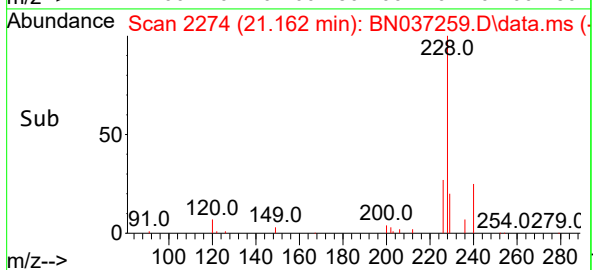
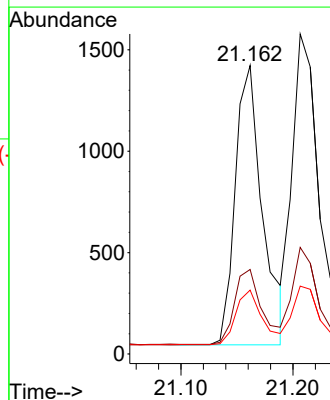
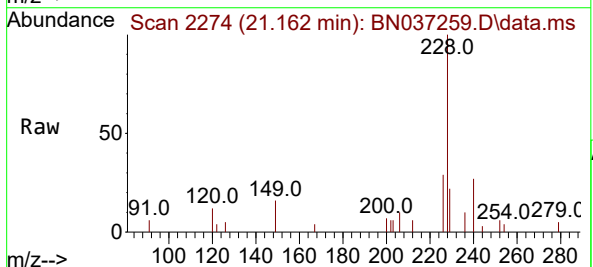
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

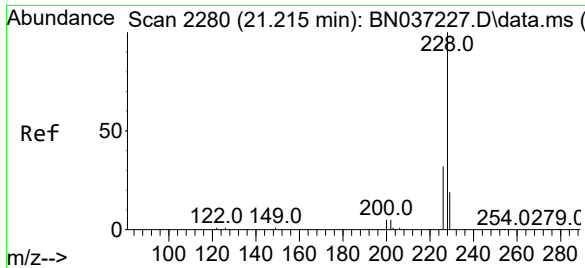
Tgt Ion:244 Resp: 1544
Ion Ratio Lower Upper
244 100
212 15.3 12.2 18.2
122 18.6 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:228 Resp: 2322
Ion Ratio Lower Upper
228 100
226 29.3 23.8 35.8
229 22.1 17.0 25.4

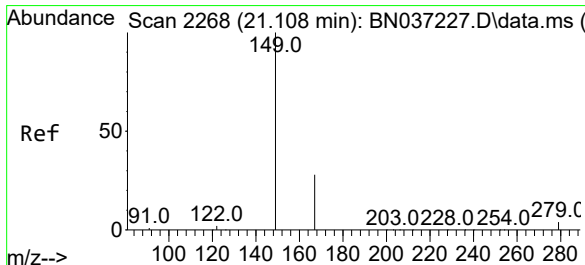
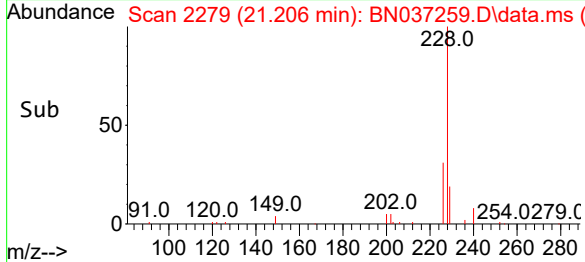
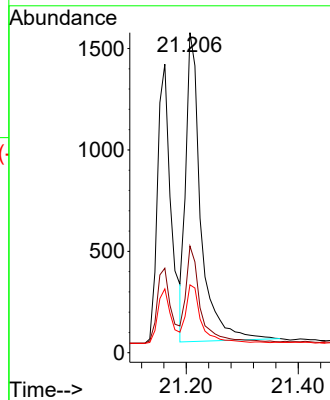
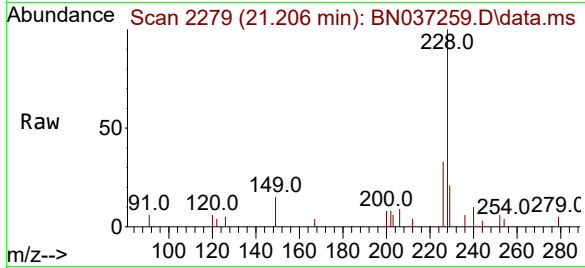




#33
Chrysene
Concen: 0.396 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

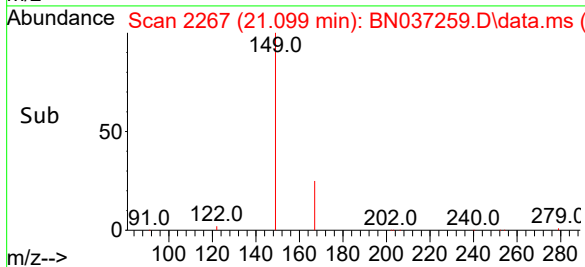
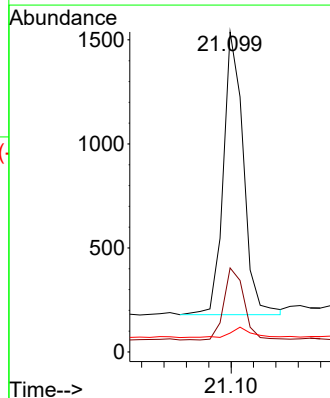
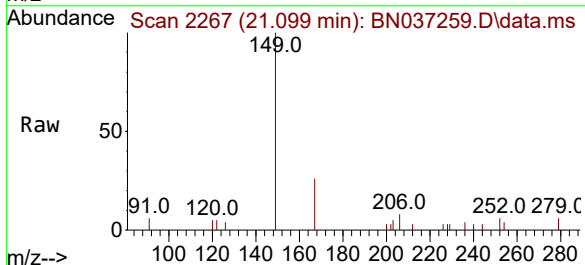
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

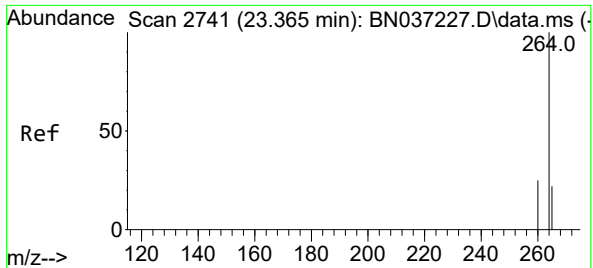
Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.3	25.8	38.6
229	21.2	17.0	25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.395 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

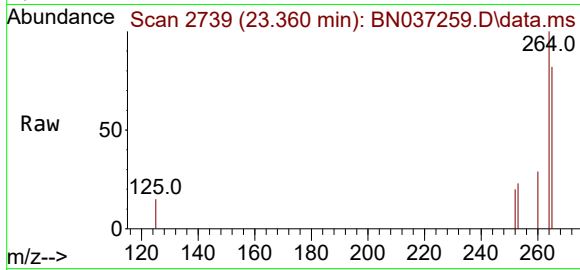
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.6	21.3	31.9
279	4.0	3.3	4.9



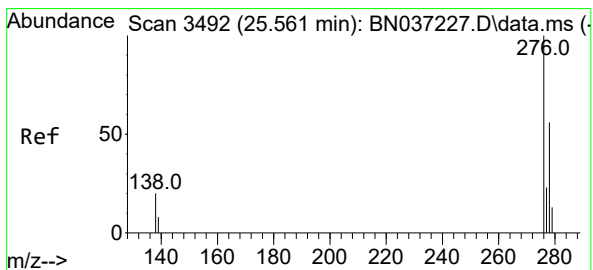
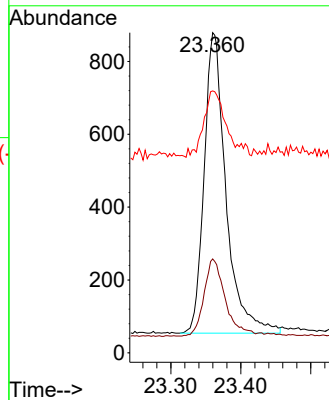
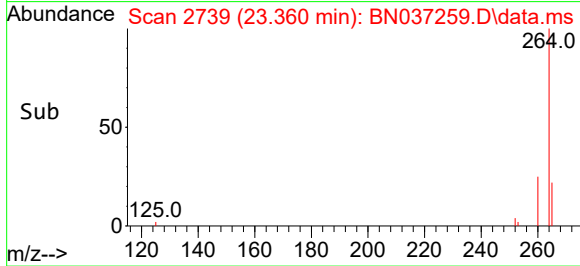


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

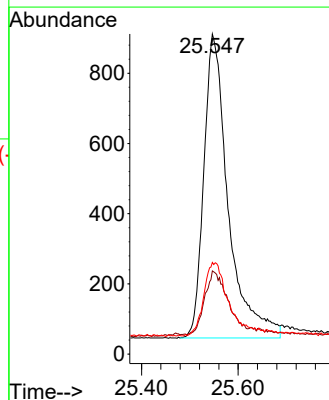
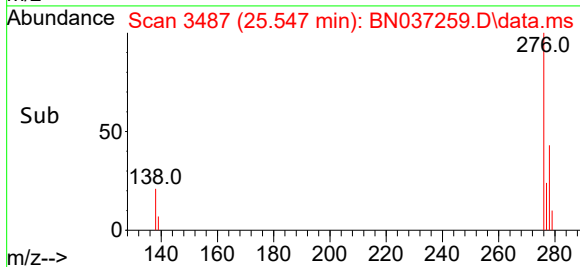
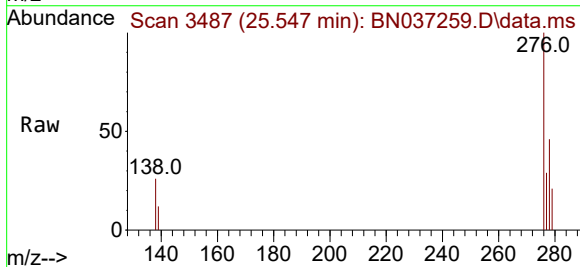


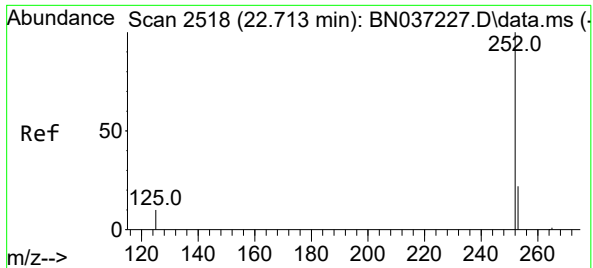
Tgt Ion:264 Resp: 1789
Ion Ratio Lower Upper
264 100
260 29.4 22.8 34.2
265 81.8 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.421 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.014 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:276 Resp: 3038
Ion Ratio Lower Upper
276 100
138 20.2 16.8 25.2
277 23.9 19.5 29.3

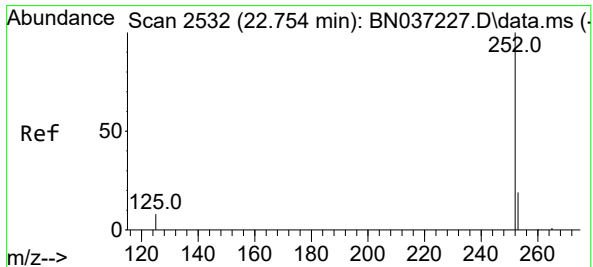
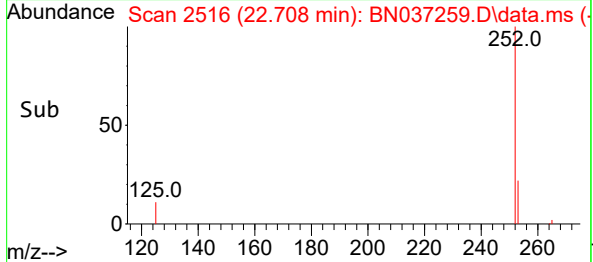
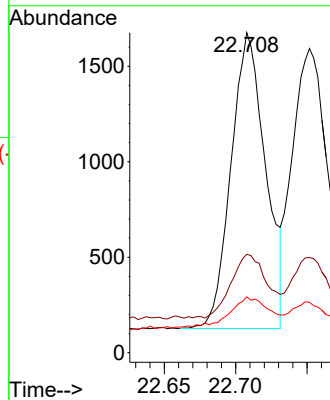
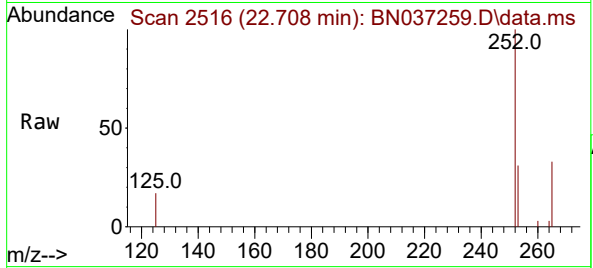




#37
Benzo(b)fluoranthene
Concen: 0.397 ng
RT: 22.708 min Scan# 2516
Delta R.T. -0.006 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

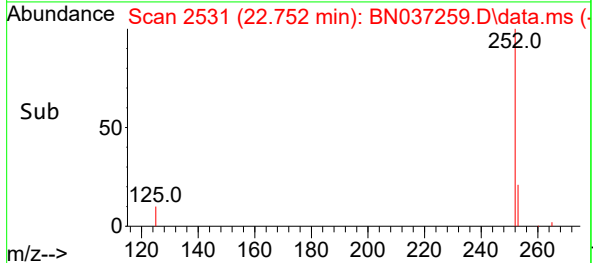
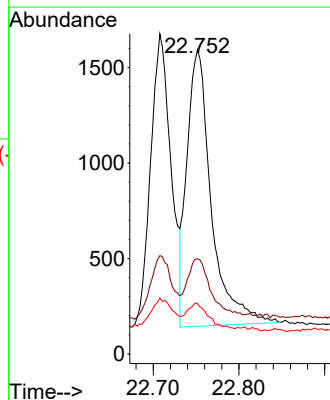
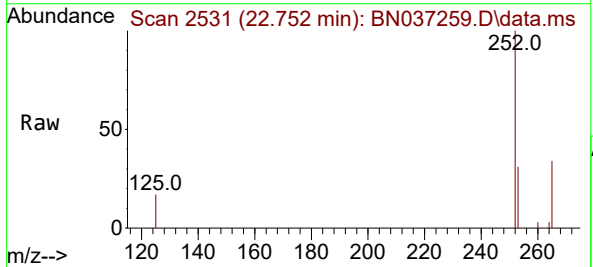
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

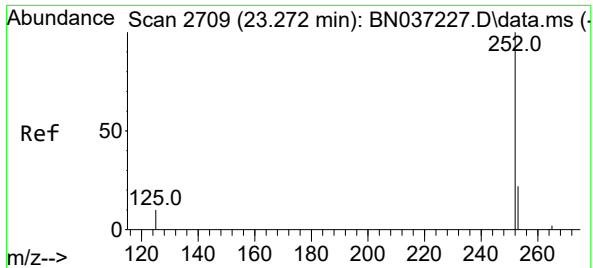
Tgt Ion:252 Resp: 2598
Ion Ratio Lower Upper
252 100
253 30.8 24.9 37.3
125 17.5 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.378 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037259.D
Acq: 14 Jun 2025 13:23

Tgt Ion:252 Resp: 2852
Ion Ratio Lower Upper
252 100
253 31.3 24.6 37.0
125 16.6 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

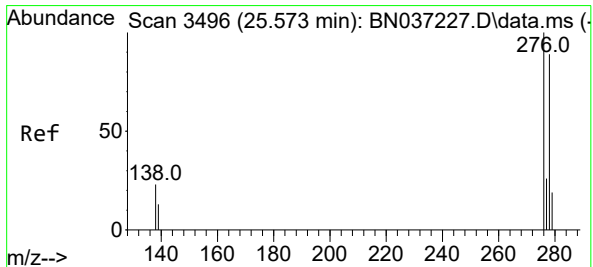
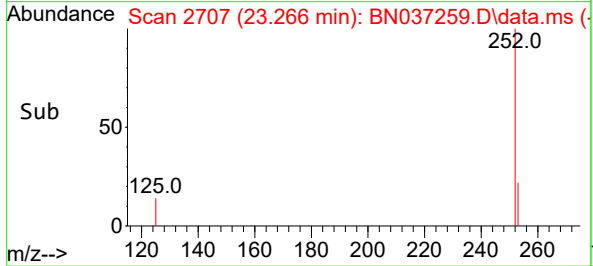
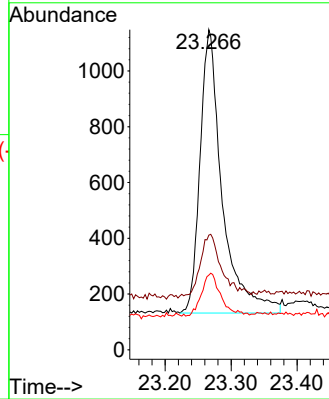
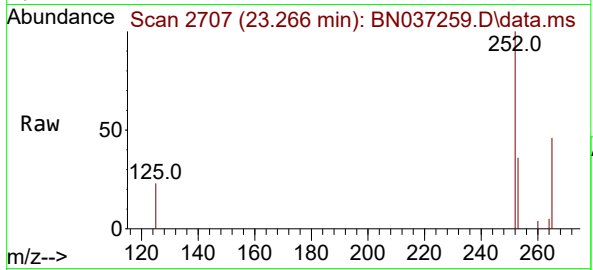
Tgt Ion:252 Resp: 2372

Ion Ratio Lower Upper

252 100

253 35.8 29.4 44.2

125 23.3 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BN037259.D

Acq: 14 Jun 2025 13:23

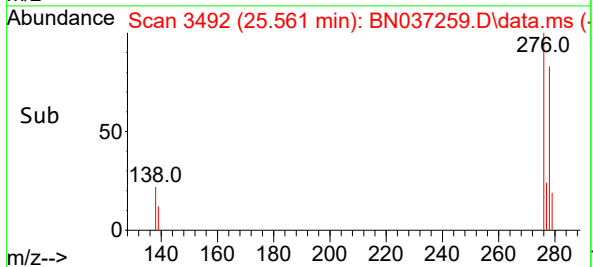
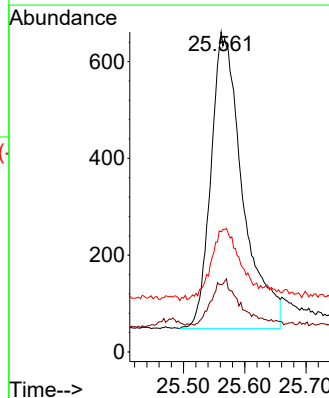
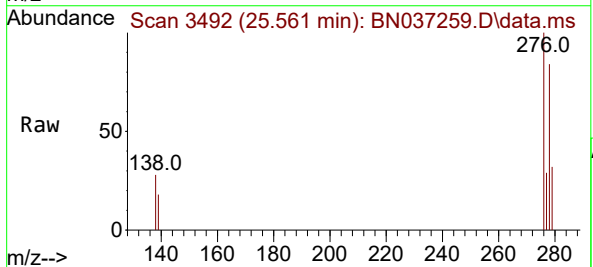
Tgt Ion:278 Resp: 2198

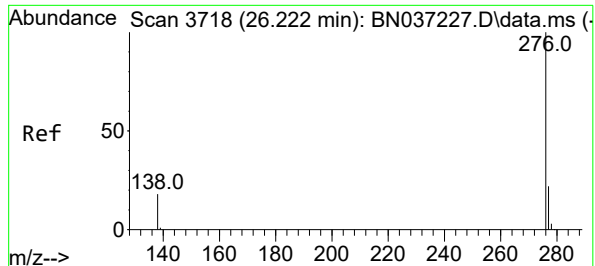
Ion Ratio Lower Upper

278 100

139 21.0 17.8 26.6

279 37.5 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 26.216 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037259.D

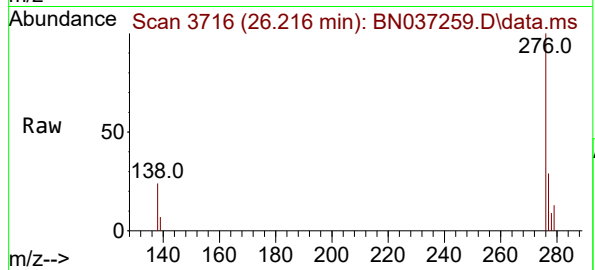
Acq: 14 Jun 2025 13:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



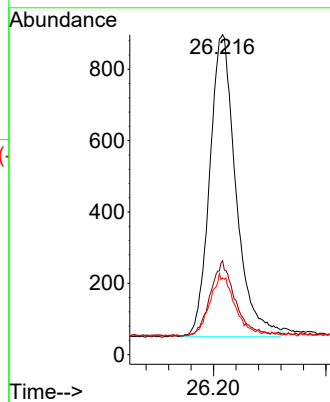
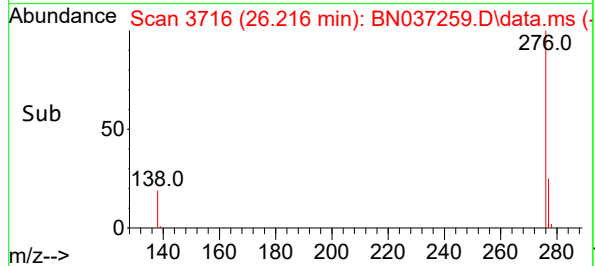
Tgt Ion:276 Resp: 2747

Ion Ratio Lower Upper

276 100

277 29.3 22.0 33.0

138 24.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037259.D
 Acq On : 14 Jun 2025 13:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	81	0.00
2	1,4-Dioxane	0.549	0.538	2.0	83	0.00
3	n-Nitrosodimethylamine	1.250	1.366	-9.3	87	0.00
4 S	2-Fluorophenol	0.982	0.983	-0.1	85	0.00
5 S	Phenol-d6	1.035	1.050	-1.4	88	0.00
6	bis(2-Chloroethyl)ether	0.927	0.983	-6.0	92	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.395	0.417	-5.6	87	0.00
9	Naphthalene	1.158	1.159	-0.1	82	0.00
10	Hexachlorobutadiene	0.282	0.297	-5.3	79	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.549	-2.2	79	0.00
12	2-Methylnaphthalene	0.704	0.694	1.4	79	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	73	0.00
14 S	2,4,6-Tribromophenol	0.166	0.181	-9.0	77	-0.01
15 S	2-Fluorobiphenyl	1.681	1.791	-6.5	77	0.00
16	Acenaphthylene	1.960	1.942	0.9	76	0.00
17	Acenaphthene	1.265	1.247	1.4	73	0.00
18	Fluorene	1.625	1.565	3.7	72	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	73	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.086	6.5	94	0.00
21	4-Bromophenyl-phenylether	0.261	0.249	4.6	74	0.00
22	Hexachlorobenzene	0.302	0.289	4.3	67	0.00
23	Atrazine	0.232	0.211	9.1	69	-0.01
24	Pentachlorophenol	0.148	0.158	-6.8	92	0.00
25	Phenanthrene	1.269	1.203	5.2	74	-0.01
26	Anthracene	1.161	1.077	7.2	72	0.00
27 SURR	Fluoranthene-d10	1.046	1.028	1.7	71	0.00
28	Fluoranthene	1.485	1.343	9.6	69	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	75	0.00
30	Pyrene	1.881	1.845	1.9	70	0.00
31 S	Terphenyl-d14	0.904	0.907	-0.3	71	0.00
32	Benzo(a)anthracene	1.351	1.364	-1.0	83	0.00
33	Chrysene	1.683	1.665	1.1	73	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.993	1.3	72	0.00
35 I	Perylene-d12	1.000	1.000	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.698	-5.3	94	-0.01
37	Benzo(b)fluoranthene	1.463	1.452	0.8	88	0.00
38	Benzo(k)fluoranthene	1.689	1.594	5.6	81	0.00
39 C	Benzo(a)pyrene	1.316	1.326	-0.8	89	0.00
40	Dibenzo(a,h)anthracene	1.227	1.229	-0.2	97	-0.01
41	Benzo(g,h,i)perylene	1.496	1.535	-2.6	89	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037259.D
 Acq On : 14 Jun 2025 13:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:42:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	81	0.00
2	1,4-Dioxane	0.400	0.392	2.0	83	0.00
3	n-Nitrosodimethylamine	0.400	0.437	-9.2	87	0.00
4 S	2-Fluorophenol	0.400	0.400	0.0	85	0.00
5 S	Phenol-d6	0.400	0.406	-1.5	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.424	-6.0	92	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.400	0.422	-5.5	87	0.00
9	Naphthalene	0.400	0.400	0.0	82	0.00
10	Hexachlorobutadiene	0.400	0.422	-5.5	79	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.409	-2.2	79	0.00
12	2-Methylnaphthalene	0.400	0.394	1.5	79	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	73	0.00
14 S	2,4,6-Tribromophenol	0.400	0.437	-9.2	77	-0.01
15 S	2-Fluorobiphenyl	0.400	0.426	-6.5	77	0.00
16	Acenaphthylene	0.400	0.396	1.0	76	0.00
17	Acenaphthene	0.400	0.394	1.5	73	0.00
18	Fluorene	0.400	0.385	3.8	72	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	73	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.443	-10.7	94	0.00
21	4-Bromophenyl-phenylether	0.400	0.383	4.3	74	0.00
22	Hexachlorobenzene	0.400	0.383	4.3	67	0.00
23	Atrazine	0.400	0.363	9.3	69	-0.01
24	Pentachlorophenol	0.400	0.428	-7.0	92	0.00
25	Phenanthrene	0.400	0.379	5.3	74	-0.01
26	Anthracene	0.400	0.371	7.3	72	0.00
27 SURR	Fluoranthene-d10	0.400	0.393	1.8	71	0.00
28	Fluoranthene	0.400	0.362	9.5	69	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	75	0.00
30	Pyrene	0.400	0.392	2.0	70	0.00
31 S	Terphenyl-d14	0.400	0.401	-0.3	71	0.00
32	Benzo(a)anthracene	0.400	0.404	-1.0	83	0.00
33	Chrysene	0.400	0.396	1.0	73	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.395	1.3	72	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.421	-5.2	94	-0.01
37	Benzo(b)fluoranthene	0.400	0.397	0.8	88	0.00
38	Benzo(k)fluoranthene	0.400	0.378	5.5	81	0.00
39 C	Benzo(a)pyrene	0.400	0.403	-0.8	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.401	-0.3	97	-0.01
41	Benzo(g,h,i)perylene	0.400	0.411	-2.7	89	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 20:36

Lab File ID: BN037271.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.576		7.3	50.0
Fluoranthene-d10	1.047	1.069		2.2	50.0
2-Fluorophenol	0.982	0.935		-4.8	50.0
Phenol-d6	1.035	1.035		0.0	50.0
Nitrobenzene-d5	0.395	0.414		4.8	50.0
2-Fluorobiphenyl	1.681	1.725		2.6	50.0
2,4,6-Tribromophenol	0.166	0.164		-1.2	50.0
Terphenyl-d14	0.904	0.930		2.9	50.0
1,4-Dioxane	0.549	0.489		-10.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037271.D
 Acq On : 14 Jun 2025 20:36
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 16 02:45:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

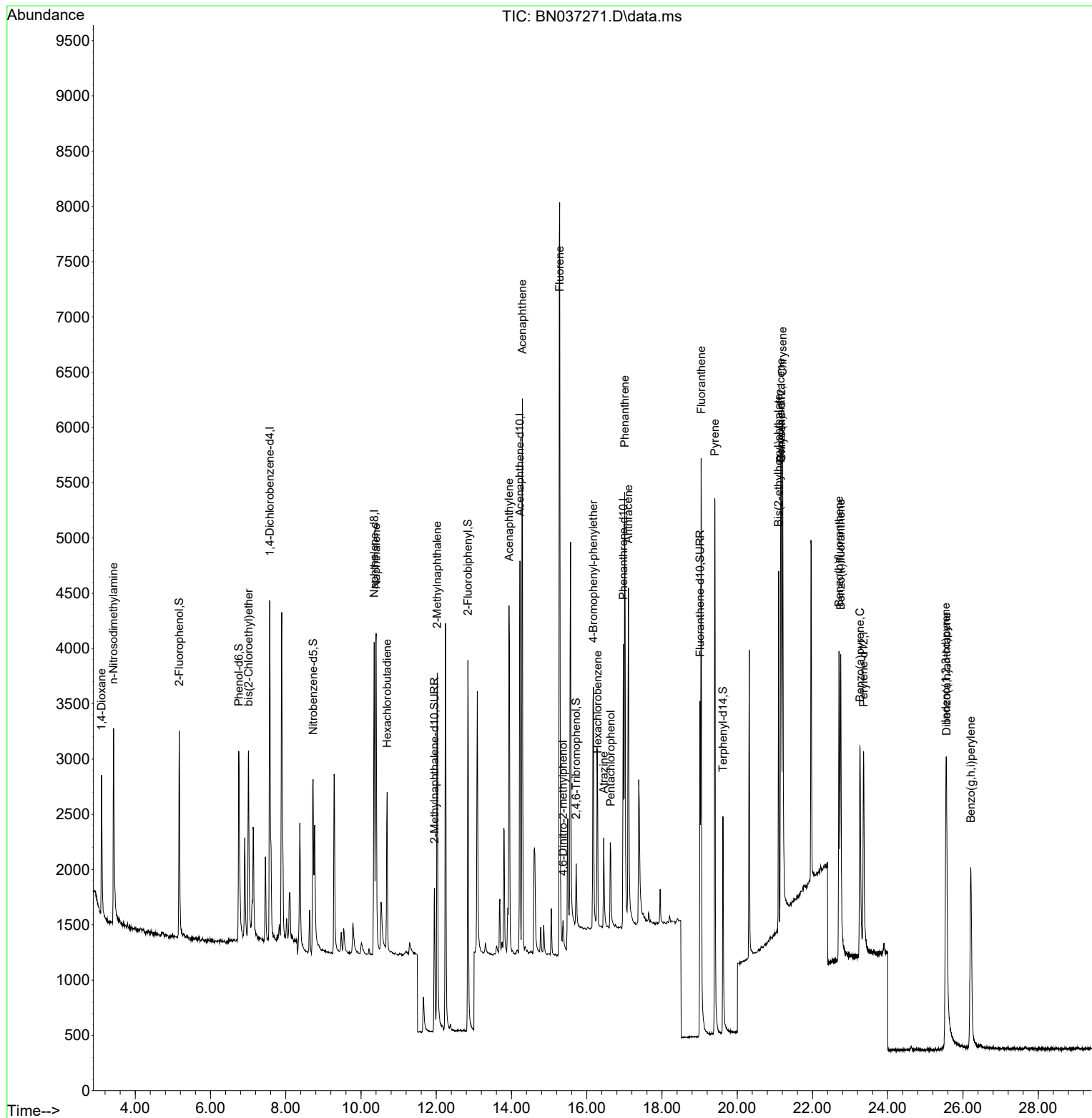
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1498	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3700	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1979	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3588	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2692	0.400	ng	0.00
35) Perylene-d12	23.357	264	2531	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1401	0.381	ng	0.00
5) Phenol-d6	6.752	99	1550	0.400	ng	0.00
8) Nitrobenzene-d5	8.728	82	1531	0.419	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	2132	0.429	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	325	0.395	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3413	0.410	ng	0.00
27) Fluoranthene-d10	19.012	212	3834	0.408	ng	0.00
31) Terphenyl-d14	19.621	244	2504	0.411	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	732	0.356	ng	95
3) n-Nitrosodimethylamine	3.422	42	1876	0.401	ng	99
6) bis(2-Chloroethyl)ether	7.012	93	1530	0.441	ng	89
9) Naphthalene	10.404	128	4283	0.400	ng	99
10) Hexachlorobutadiene	10.693	225	1093	0.419	ng	# 100
12) 2-Methylnaphthalene	12.026	142	2597	0.399	ng	97
16) Acenaphthylene	13.935	152	3671	0.379	ng	99
17) Acenaphthene	14.288	154	2389	0.382	ng	99
18) Fluorene	15.282	166	3061	0.381	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	271	0.404	ng	93
21) 4-Bromophenyl-phenylether	16.177	248	920	0.393	ng	# 84
22) Hexachlorobenzene	16.289	284	1060	0.391	ng	96
23) Atrazine	16.450	200	816	0.391	ng	94
24) Pentachlorophenol	16.636	266	503	0.379	ng	99
25) Phenanthrene	17.009	178	4398	0.386	ng	99
26) Anthracene	17.108	178	3988	0.383	ng	100
28) Fluoranthene	19.040	202	5054	0.379	ng	99
30) Pyrene	19.407	202	5049	0.399	ng	100
32) Benzo(a)anthracene	21.153	228	3437	0.378	ng	100
33) Chrysene	21.207	228	4510	0.398	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2710	0.400	ng	98
36) Indeno(1,2,3-cd)pyrene	25.547	276	3975	0.389	ng	99
37) Benzo(b)fluoranthene	22.705	252	3621	0.391	ng	98
38) Benzo(k)fluoranthene	22.749	252	3967	0.371	ng	96
39) Benzo(a)pyrene	23.260	252	3312	0.398	ng	95
40) Dibenzo(a,h)anthracene	25.561	278	3030	0.390	ng	94
41) Benzo(g,h,i)perylene	26.208	276	3692	0.390	ng	99

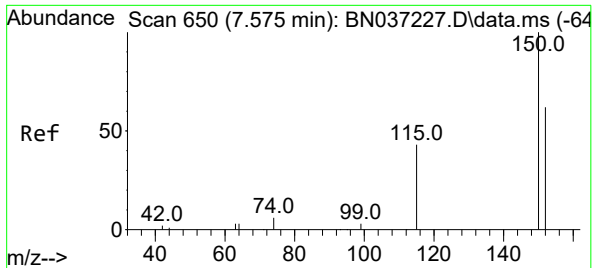
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037271.D
Acq On : 14 Jun 2025 20:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 16 02:45:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

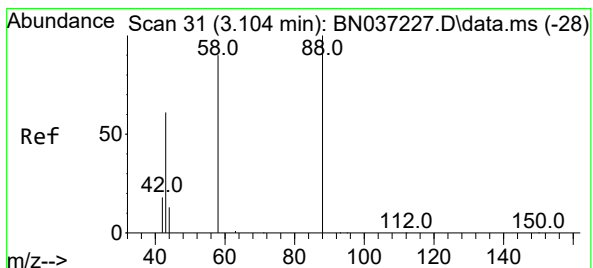
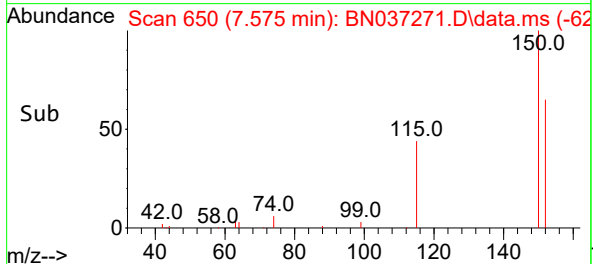
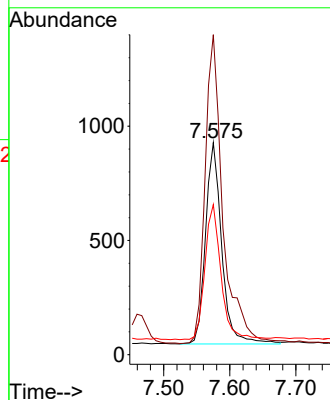
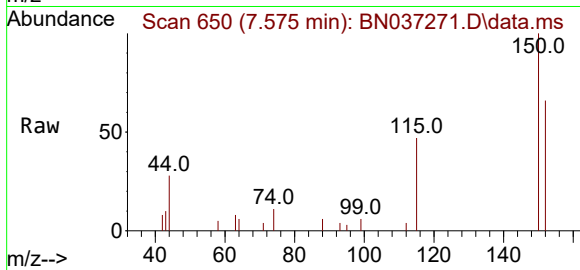




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037271.D
 Acq: 14 Jun 2025 20:36

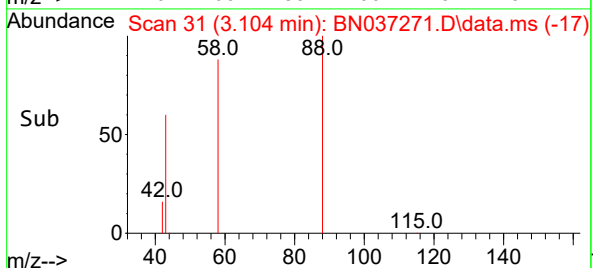
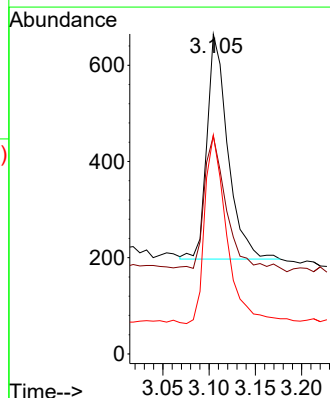
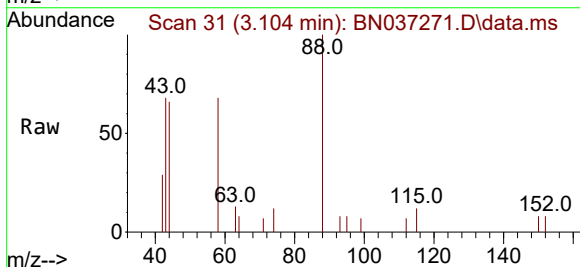
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion:152 Resp: 1498
 Ion Ratio Lower Upper
 152 100
 150 151.0 125.2 187.8
 115 70.8 58.4 87.6

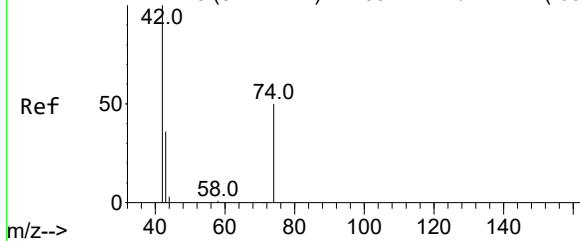


#2
 1,4-Dioxane
 Concen: 0.356 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037271.D
 Acq: 14 Jun 2025 20:36

Tgt Ion: 88 Resp: 732
 Ion Ratio Lower Upper
 88 100
 43 59.4 52.6 79.0
 58 89.2 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.401 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1876

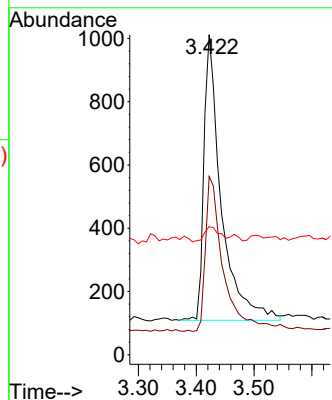
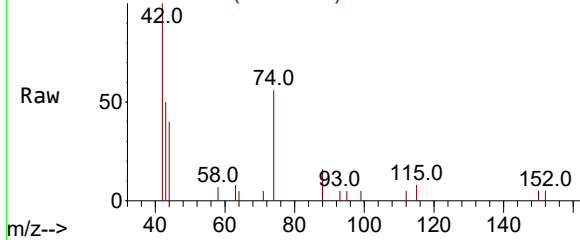
Ion Ratio Lower Upper

42 100

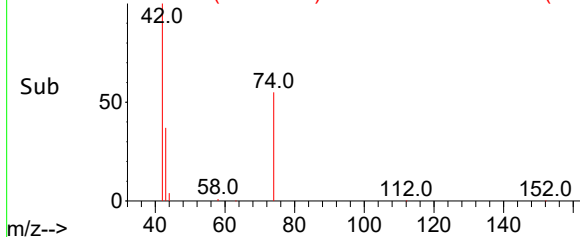
74 56.1 44.6 66.8

44 4.6 3.5 5.3

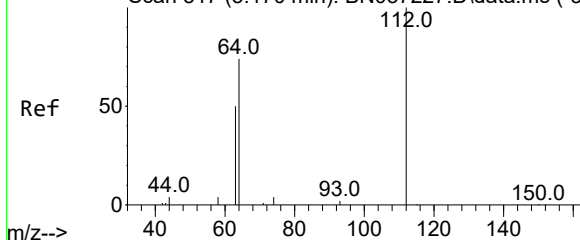
Abundance Scan 75 (3.422 min): BN037271.D\data.ms



Abundance Scan 75 (3.422 min): BN037271.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.381 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Tgt Ion: 112 Resp: 1401

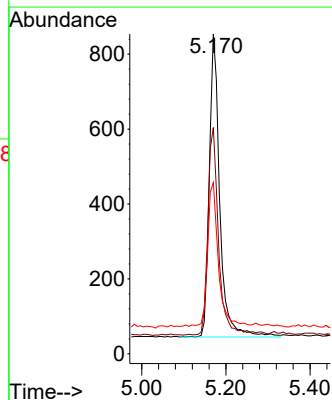
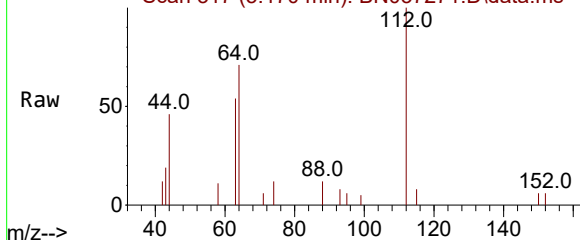
Ion Ratio Lower Upper

112 100

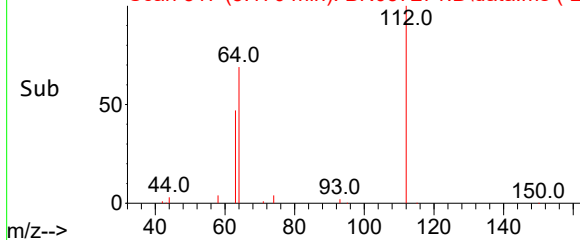
64 68.4 57.2 85.8

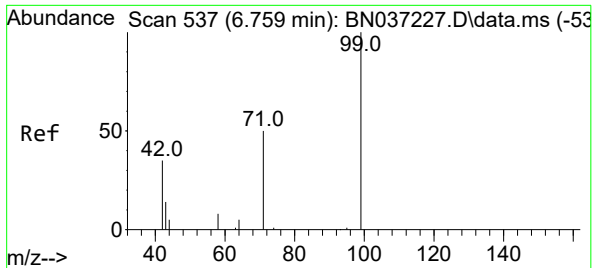
63 48.5 39.8 59.6

Abundance Scan 317 (5.170 min): BN037271.D\data.ms



Abundance Scan 317 (5.170 min): BN037271.D\data.ms (-28)

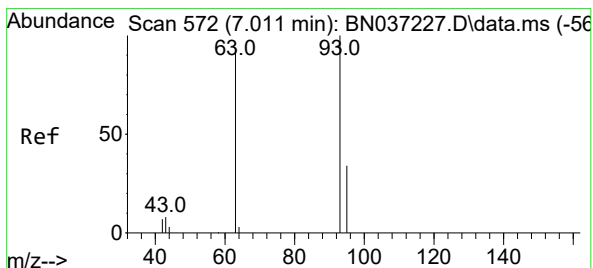
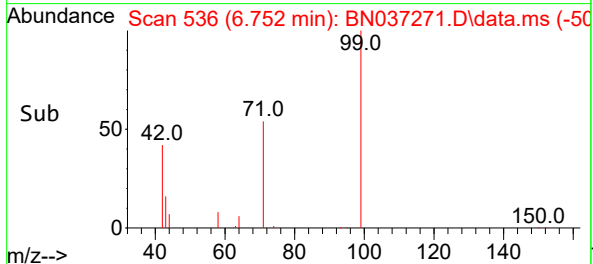
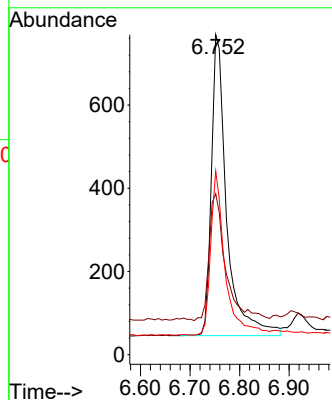
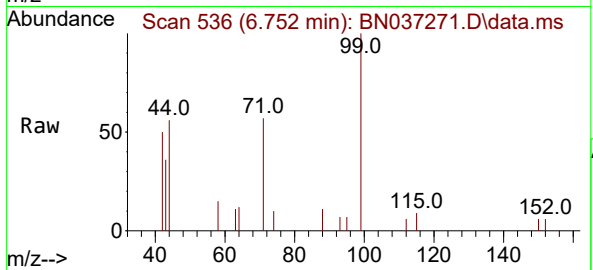




#5
Phenol-d6
Concen: 0.400 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

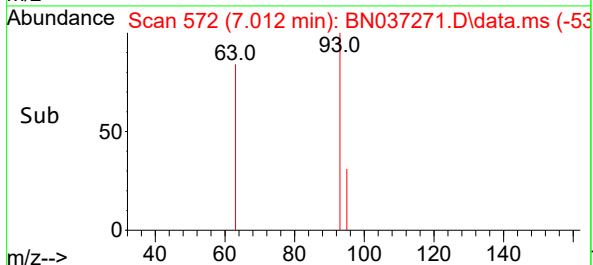
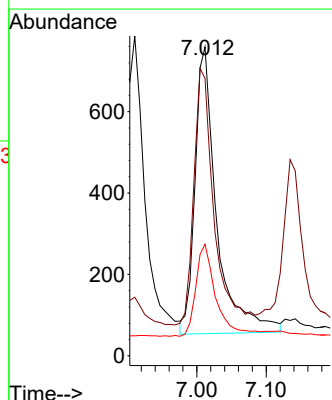
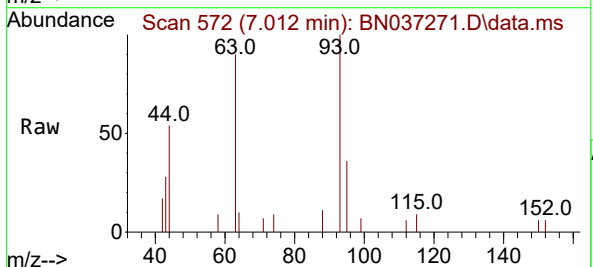
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

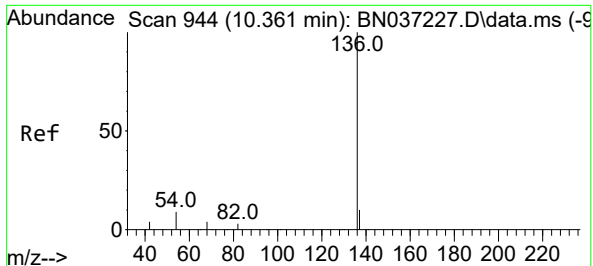
Tgt Ion: 99 Resp: 1550
Ion Ratio Lower Upper
99 100
42 45.9 36.2 54.4
71 51.2 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.441 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion: 93 Resp: 1530
Ion Ratio Lower Upper
93 100
63 82.7 75.2 112.8
95 30.0 28.3 42.5

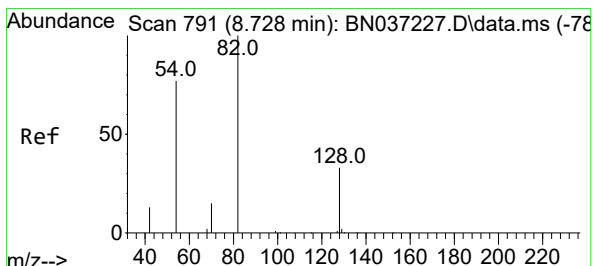
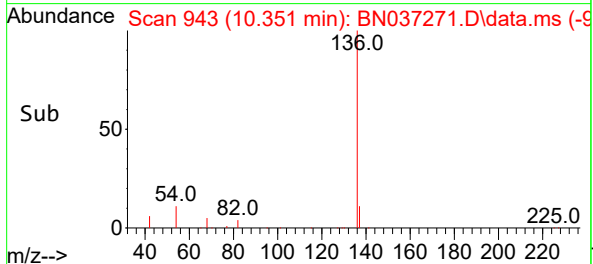
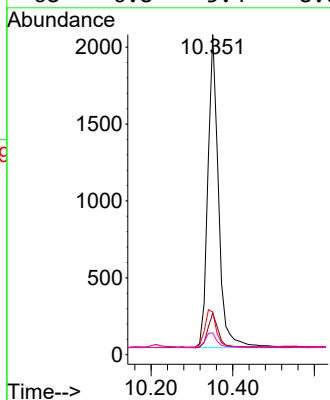
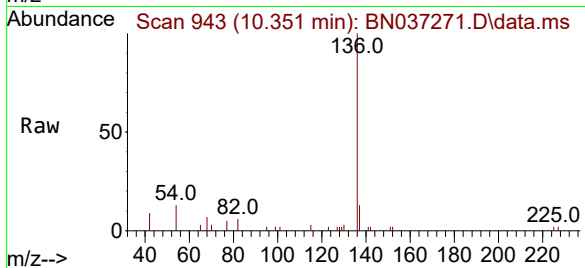




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

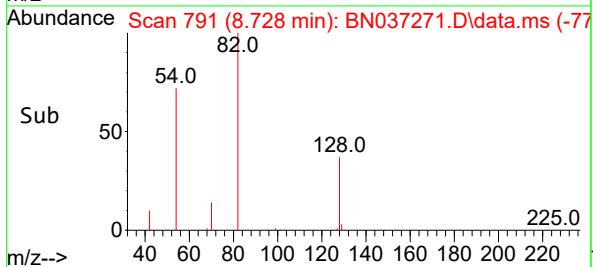
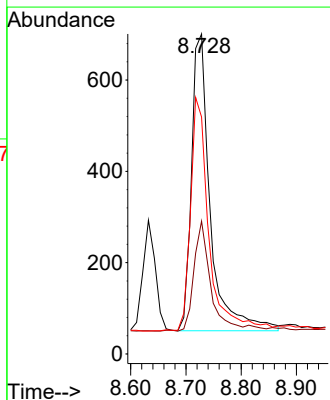
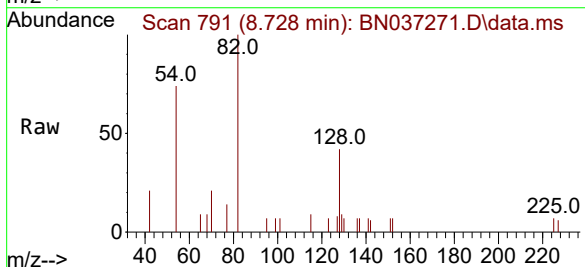
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

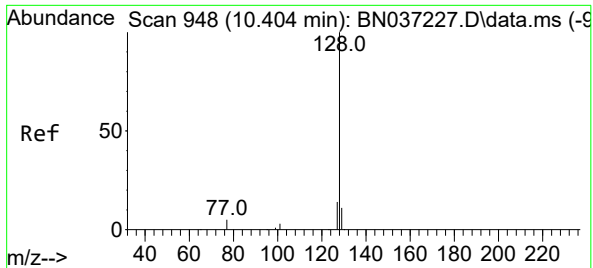
Tgt Ion:	136	Resp:	3700
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	13.4	9.2	13.8
68	6.8	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.419 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:	82	Resp:	1531
Ion	Ratio	Lower	Upper
82	100		
128	41.5	31.2	46.8
54	74.0	63.3	94.9

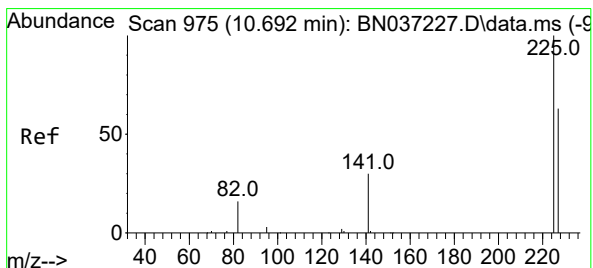
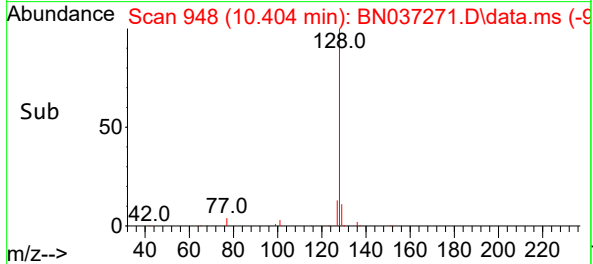
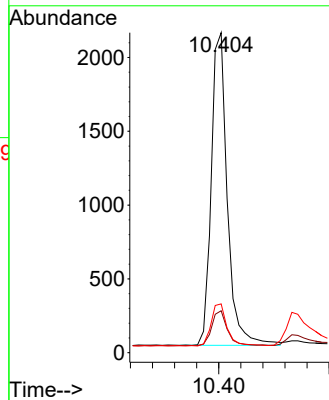
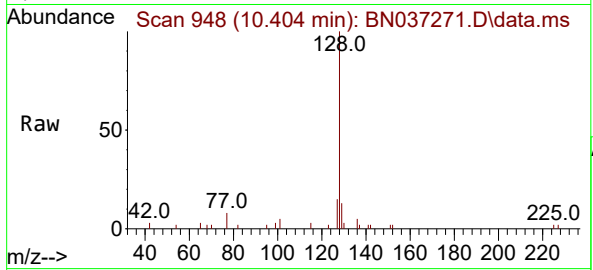




#9
Naphthalene
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

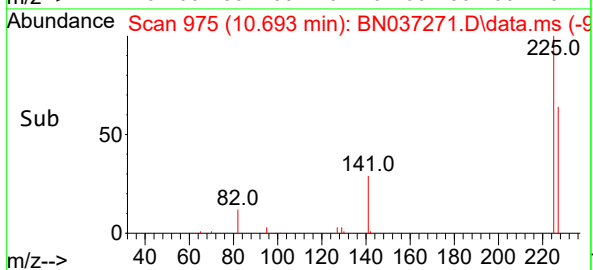
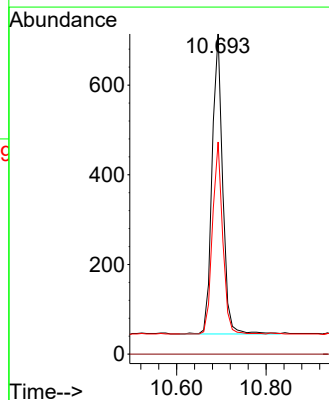
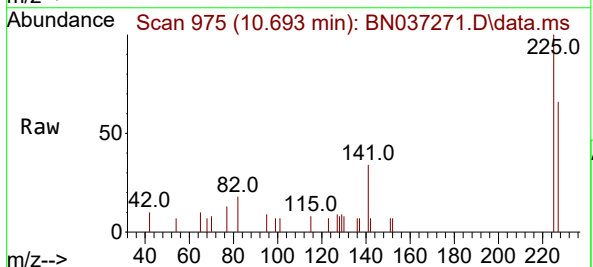
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

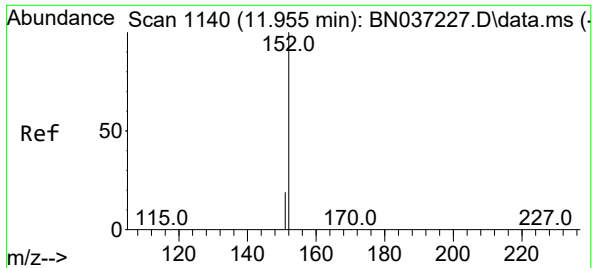
Tgt Ion:	128	Resp:	4283
Ion Ratio	Lower	Upper	
128	100		
129	13.1	10.7	16.1
127	15.3	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:	225	Resp:	1093
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	61.8	49.2	73.8

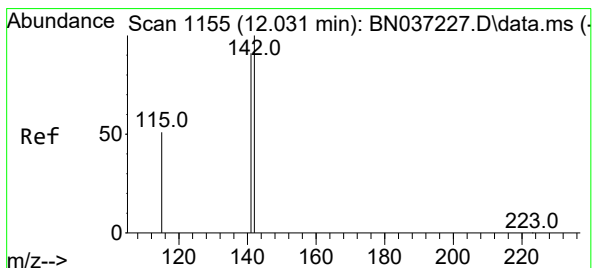
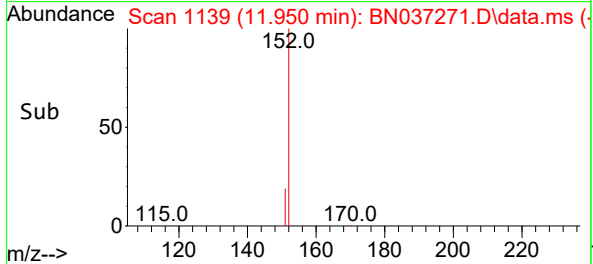
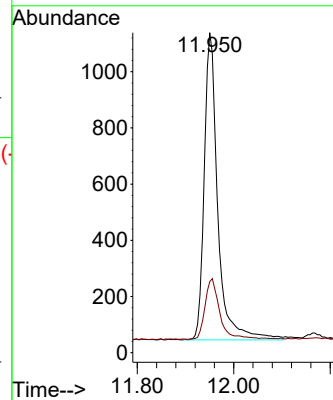
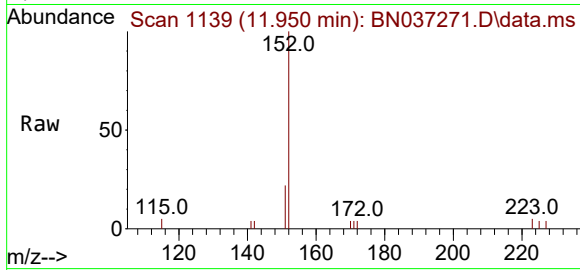




#11
2-Methylnaphthalene-d10
Concen: 0.429 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

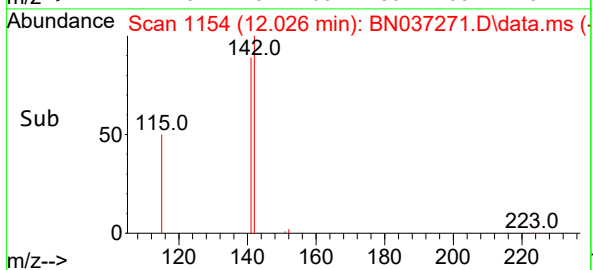
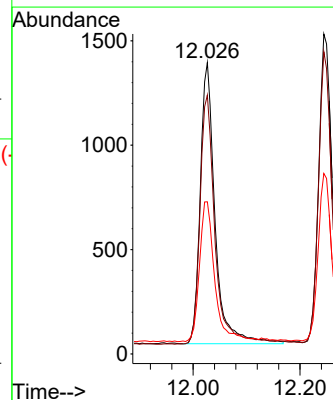
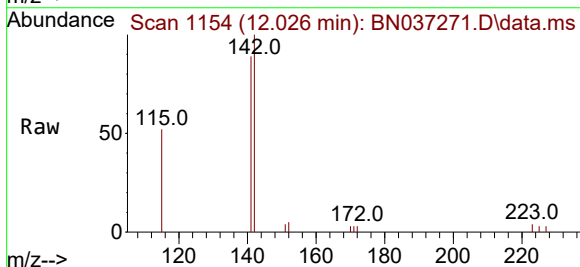
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

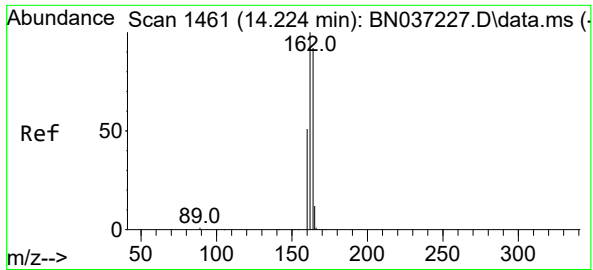
Tgt Ion:152 Resp: 2132
Ion Ratio Lower Upper
152 100
151 21.2 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.399 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:142 Resp: 2597
Ion Ratio Lower Upper
142 100
141 88.8 73.0 109.6
115 52.2 43.3 64.9

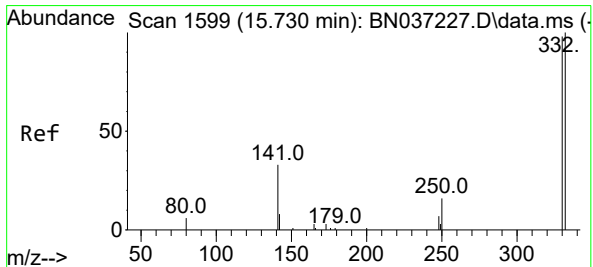
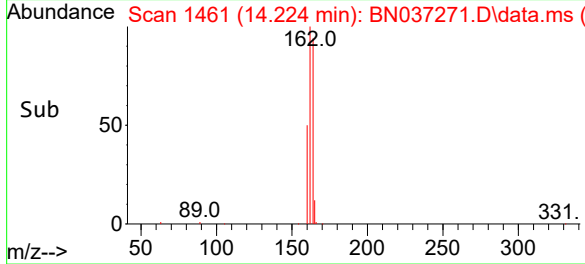
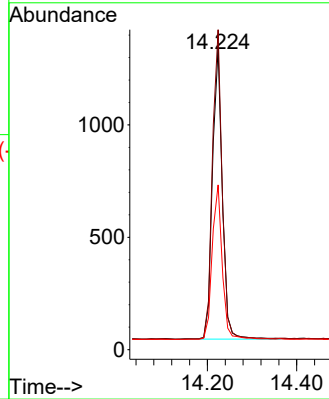
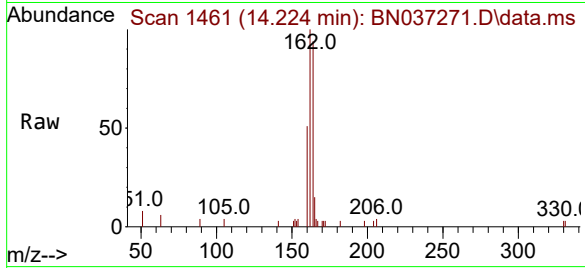




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

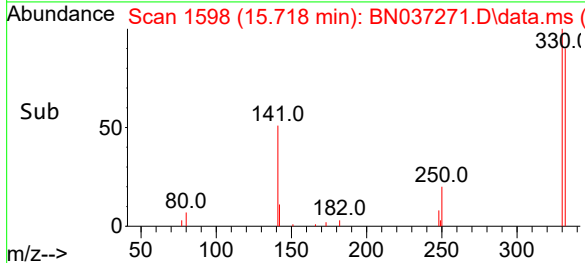
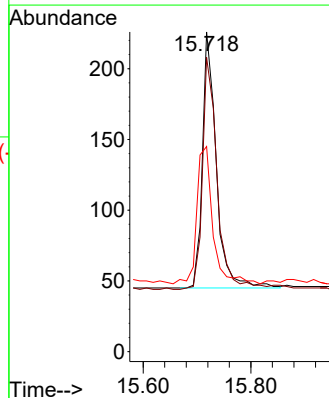
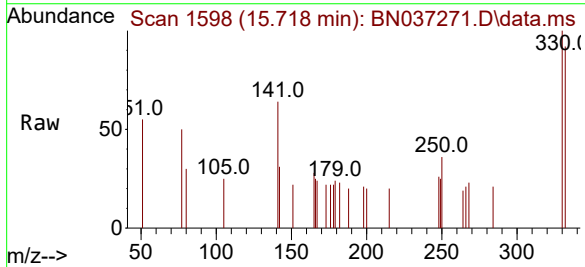
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

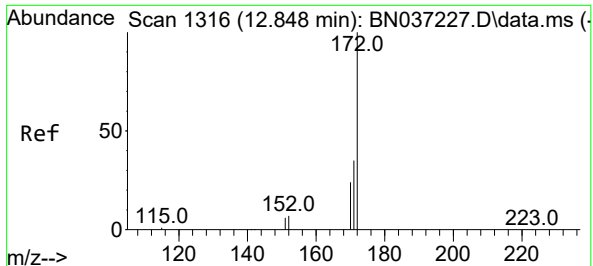
Tgt Ion:164 Resp: 1979
Ion Ratio Lower Upper
164 100
162 106.4 86.7 130.1
160 54.8 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:330 Resp: 325
Ion Ratio Lower Upper
330 100
332 95.4 74.9 112.3
141 61.2 45.1 67.7

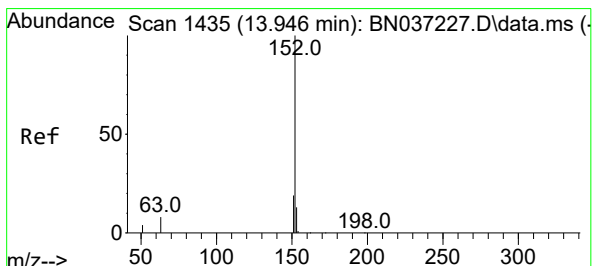
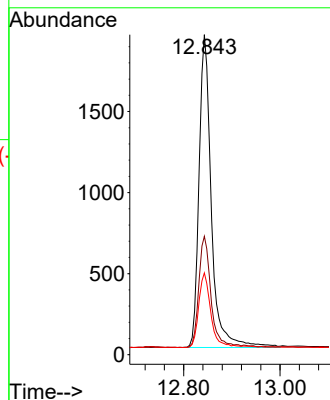
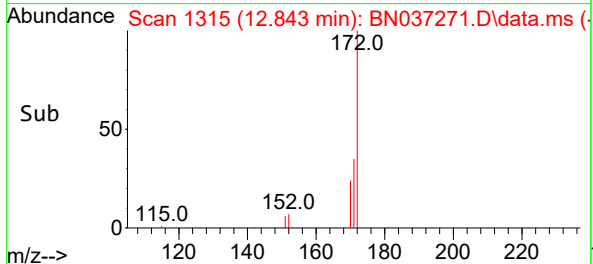
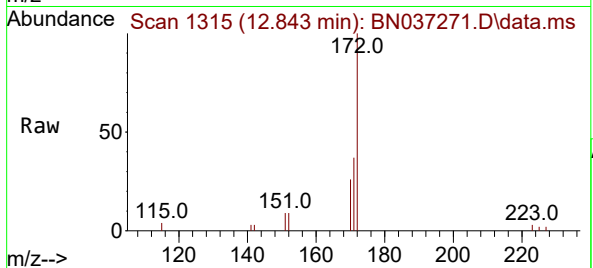




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

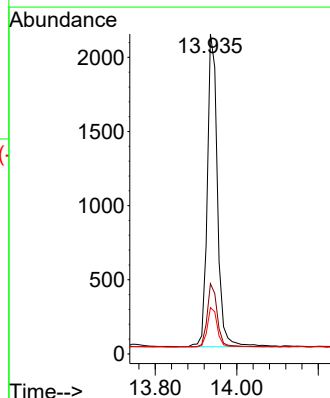
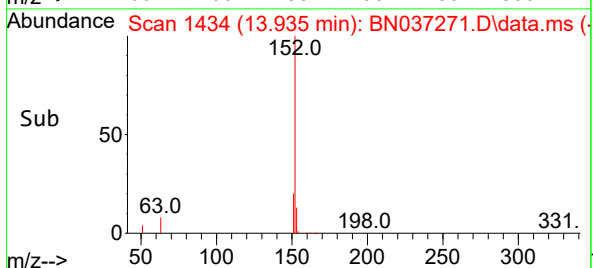
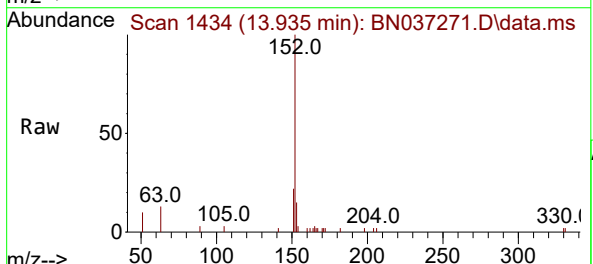
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

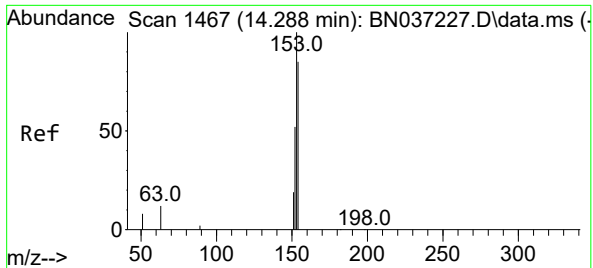
Tgt Ion:172 Resp: 3413
Ion Ratio Lower Upper
172 100
171 37.0 29.8 44.8
170 25.6 21.1 31.7



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:152 Resp: 3671
Ion Ratio Lower Upper
152 100
151 19.8 15.7 23.5
153 12.9 10.7 16.1

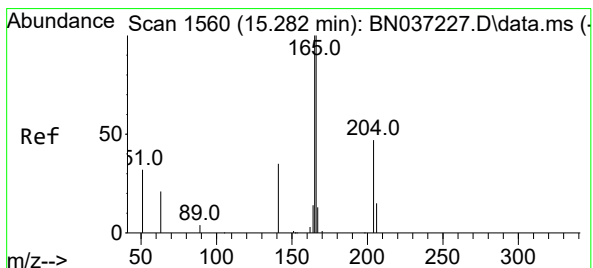
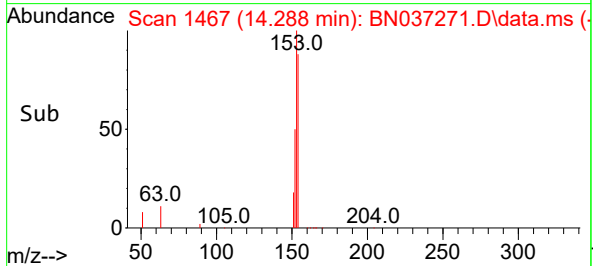
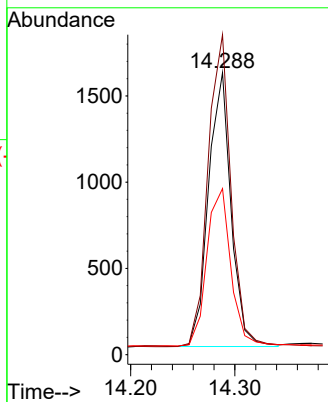
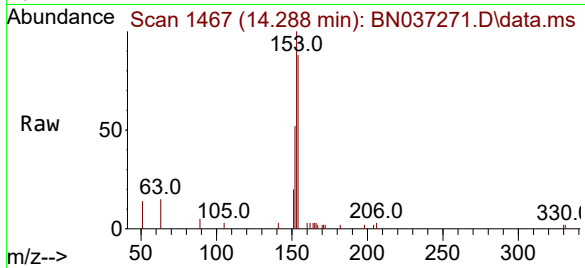




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

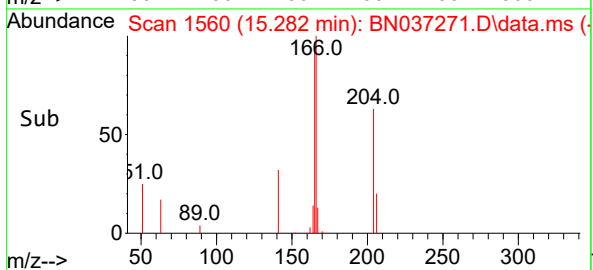
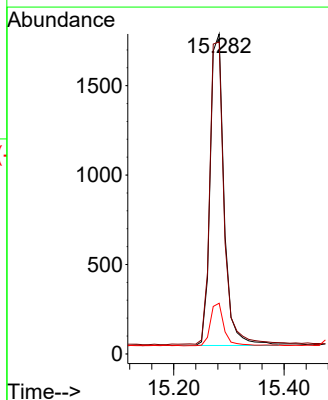
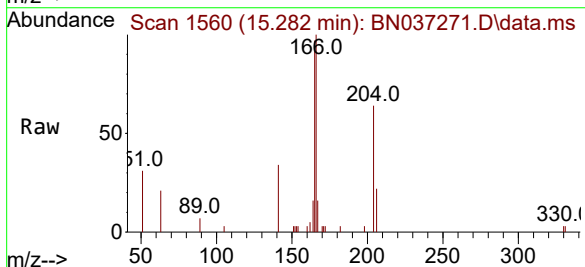
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

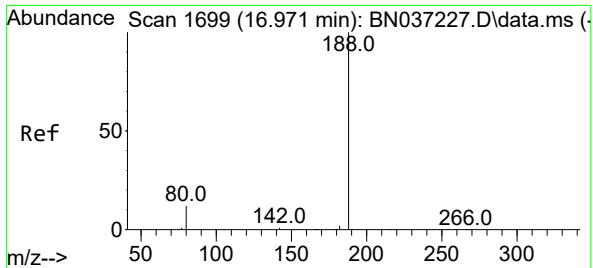
Tgt Ion:154 Resp: 2389
Ion Ratio Lower Upper
154 100
153 117.5 94.6 141.8
152 61.7 49.6 74.4



#18
Fluorene
Concen: 0.381 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:166 Resp: 3061
Ion Ratio Lower Upper
166 100
165 100.6 79.8 119.6
167 13.6 10.8 16.2

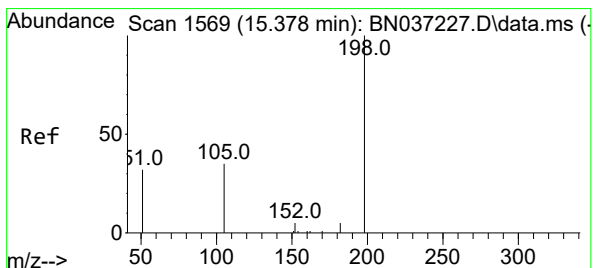
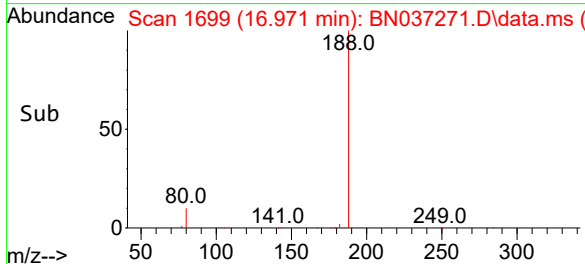
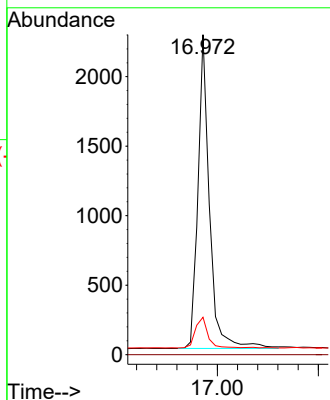
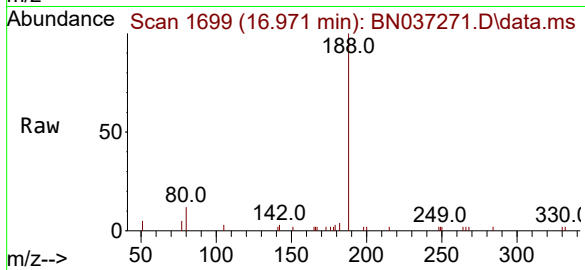




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

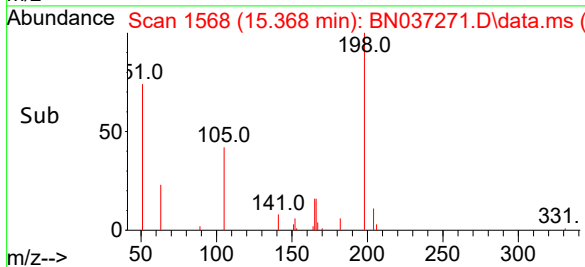
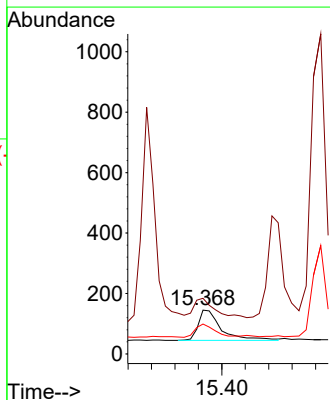
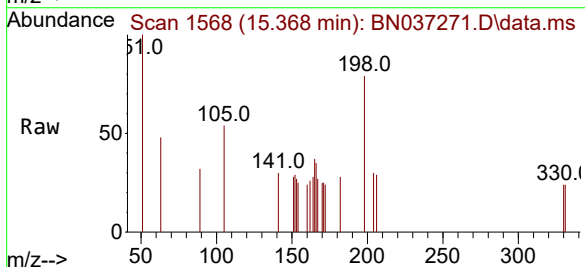
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

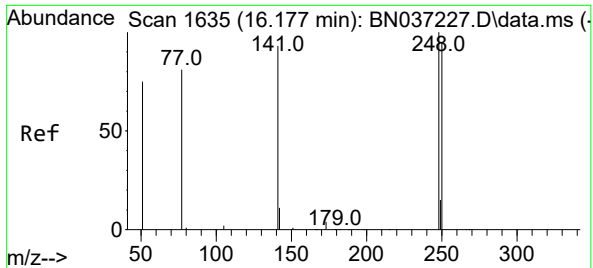
Tgt Ion:188 Resp: 3588
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.7 12.2 18.4#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.404 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.010 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:198 Resp: 271
Ion Ratio Lower Upper
198 100
51 126.9 111.2 166.8
105 68.3 54.0 81.0

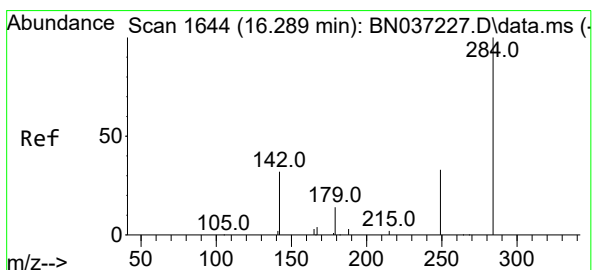
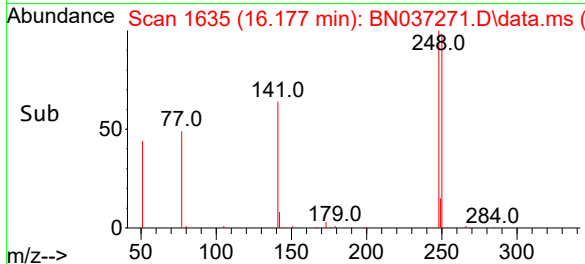
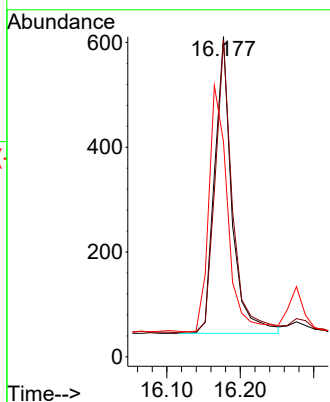
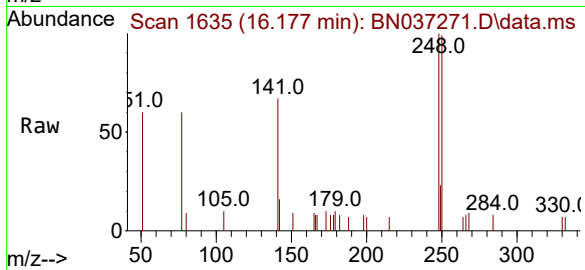




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

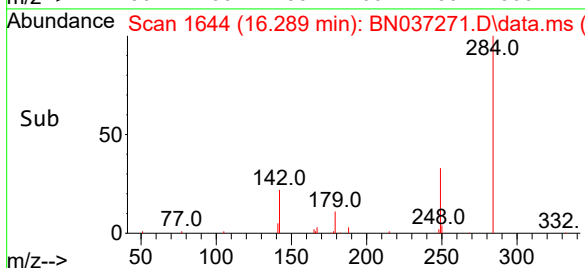
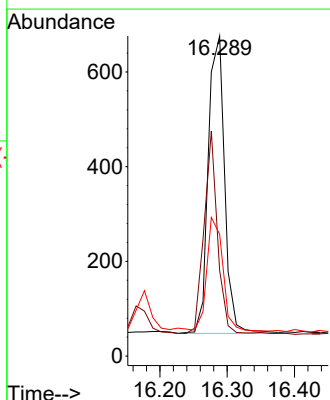
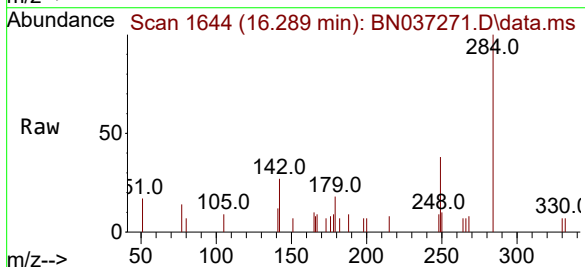
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

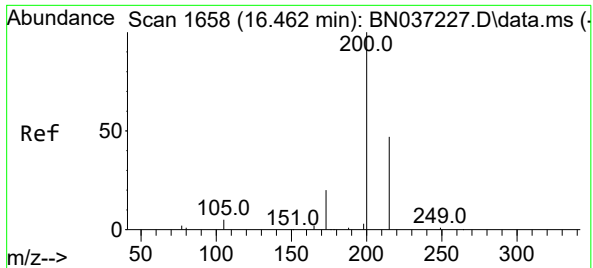
Tgt Ion:248 Resp: 920
Ion Ratio Lower Upper
248 100
250 98.9 76.8 115.2
141 67.1 75.6 113.4#



#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:284 Resp: 1060
Ion Ratio Lower Upper
284 100
142 57.3 43.8 65.6
249 38.2 28.4 42.6

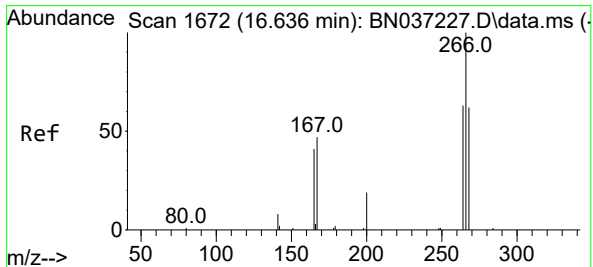
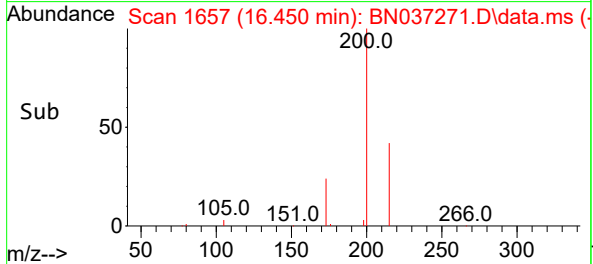
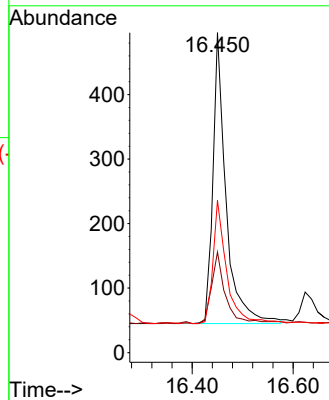
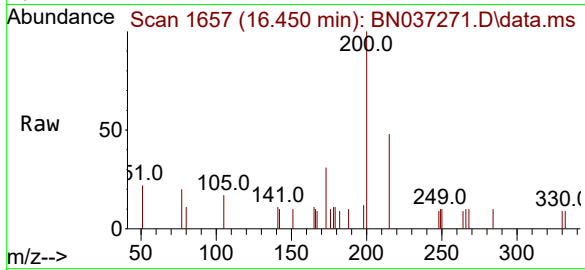




#23
Atrazine
Concen: 0.391 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

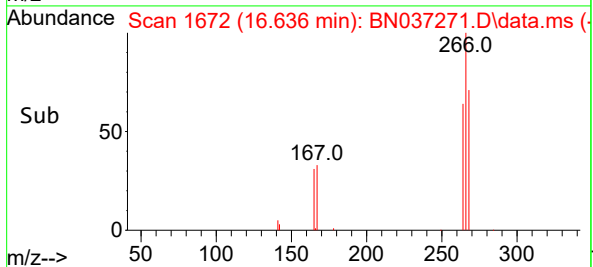
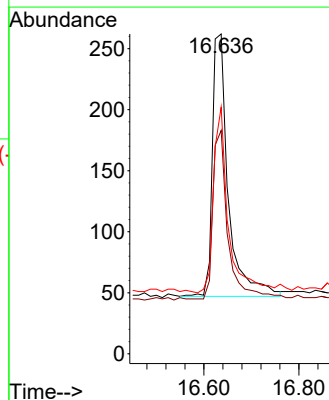
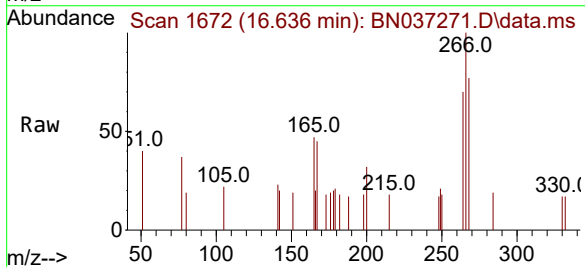
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

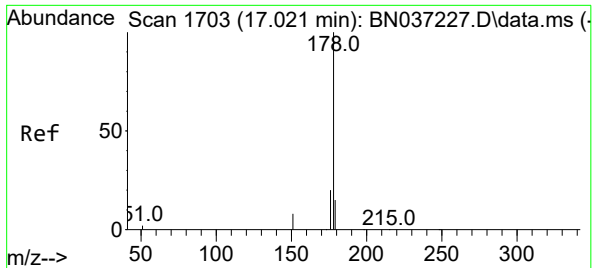
Tgt Ion:200 Resp: 816
Ion Ratio Lower Upper
200 100
173 31.5 25.1 37.7
215 47.6 43.7 65.5



#24
Pentachlorophenol
Concen: 0.379 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:266 Resp: 503
Ion Ratio Lower Upper
266 100
264 60.0 49.2 73.8
268 67.4 53.4 80.2

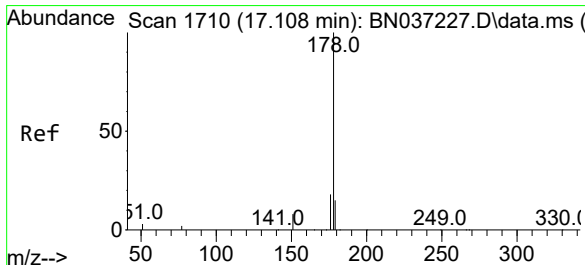
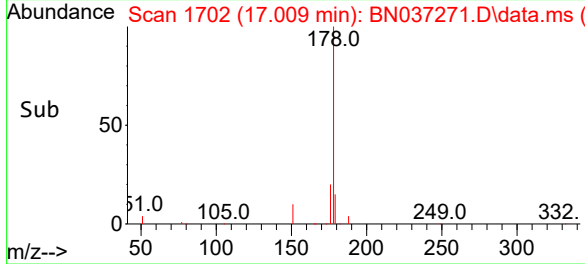
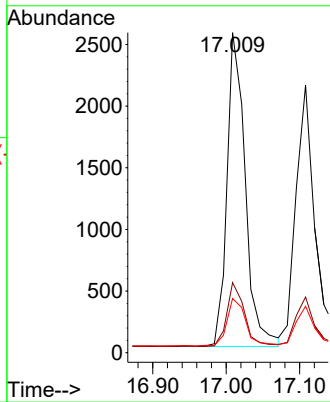
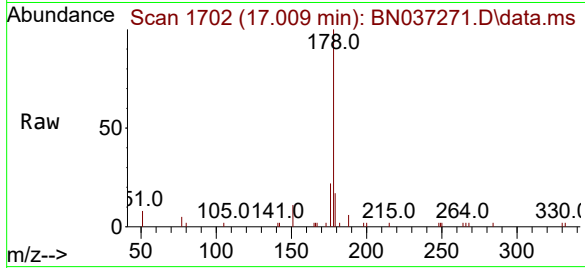




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

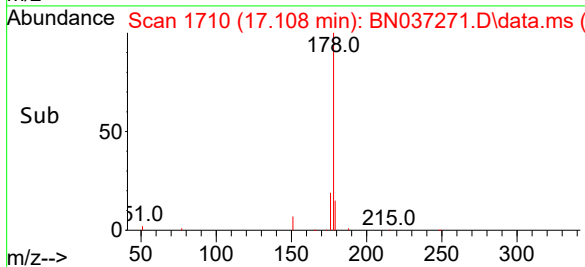
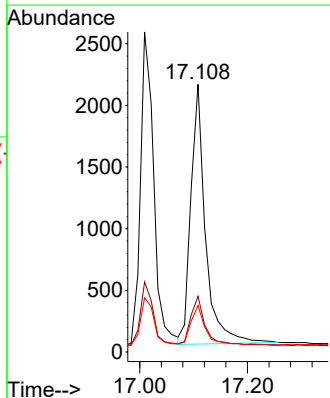
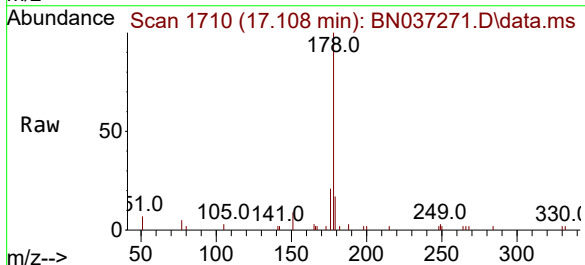
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

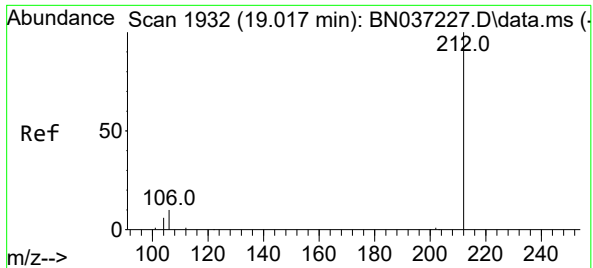
Tgt Ion:178 Resp: 4398
Ion Ratio Lower Upper
178 100
176 19.7 16.3 24.5
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:178 Resp: 3988
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.408 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.004 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

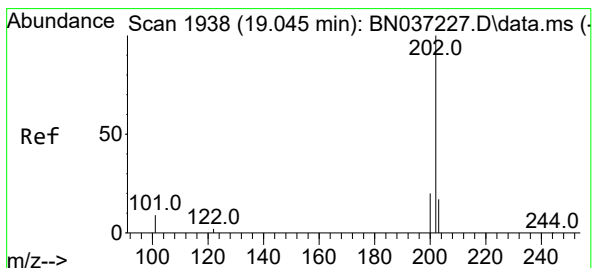
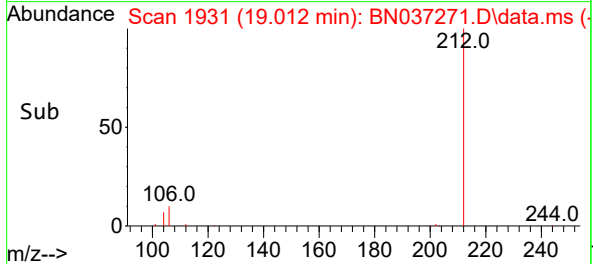
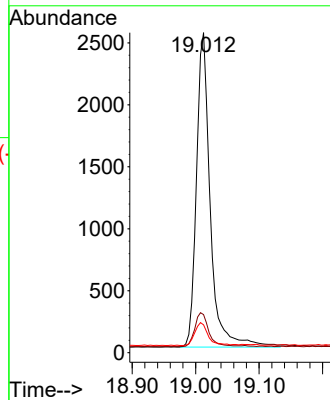
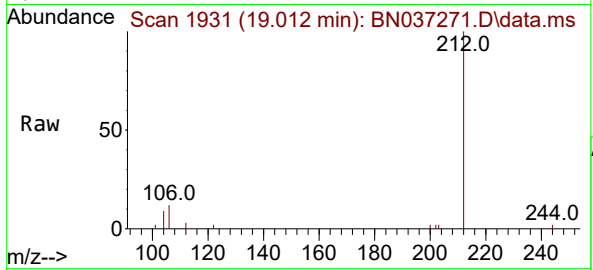
Tgt Ion:212 Resp: 3834

Ion Ratio Lower Upper

212 100

106 10.9 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.379 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.004 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

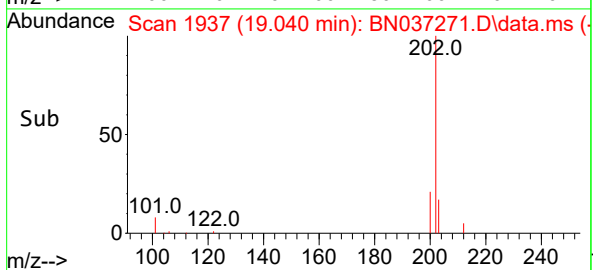
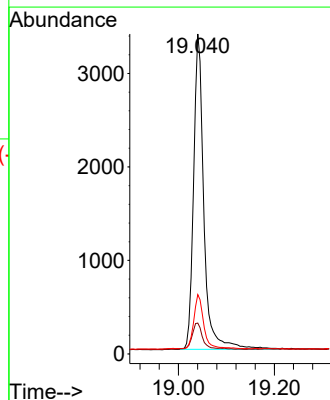
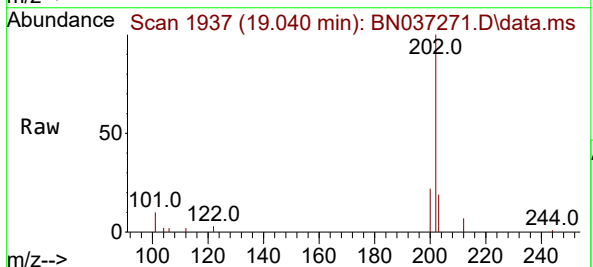
Tgt Ion:202 Resp: 5054

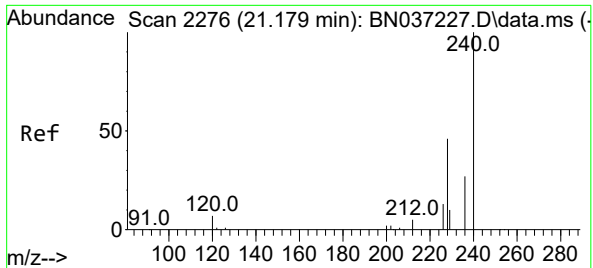
Ion Ratio Lower Upper

202 100

101 9.2 7.1 10.7

203 16.6 13.0 19.6

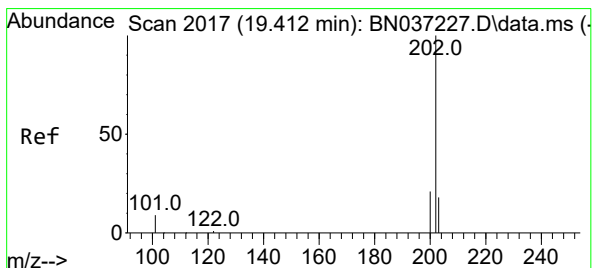
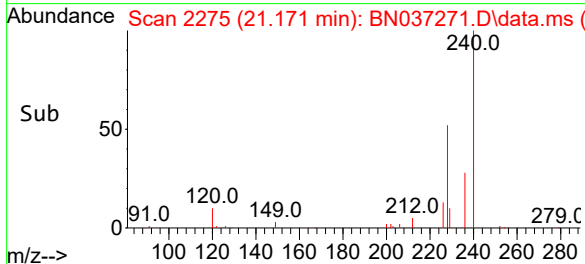
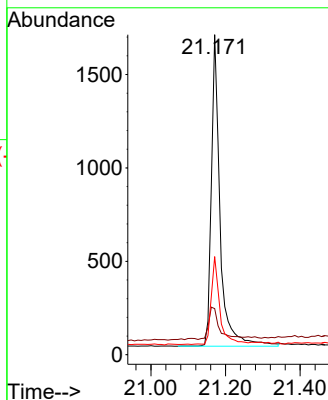
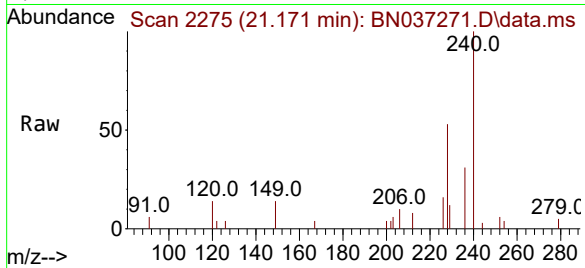




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

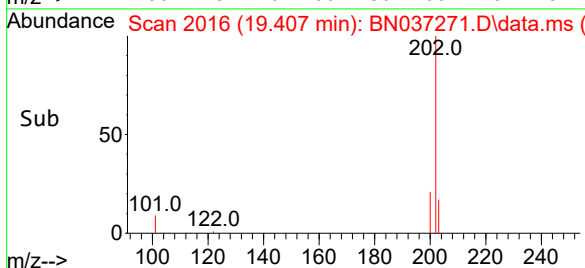
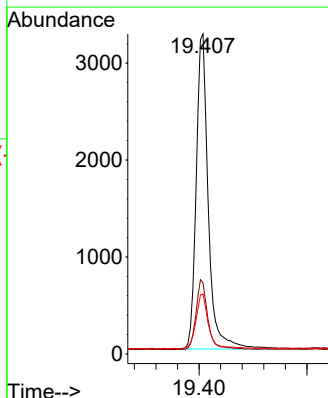
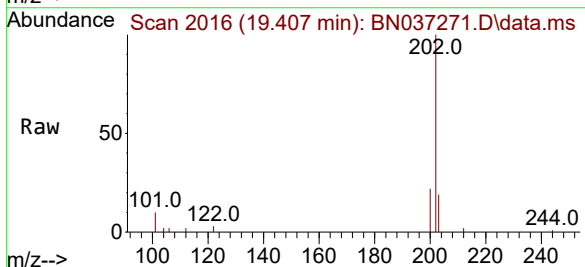
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

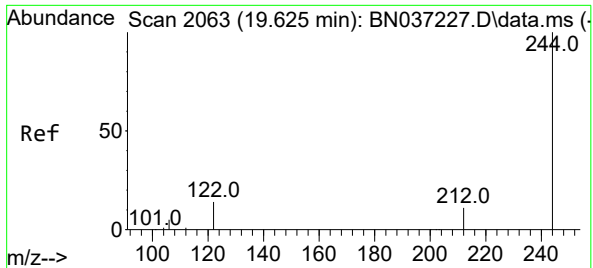
Tgt Ion:240 Resp: 2692
Ion Ratio Lower Upper
240 100
120 14.4 11.3 16.9
236 30.6 24.4 36.6



#30
Pyrene
Concen: 0.399 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:202 Resp: 5049
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 18.2 14.3 21.5

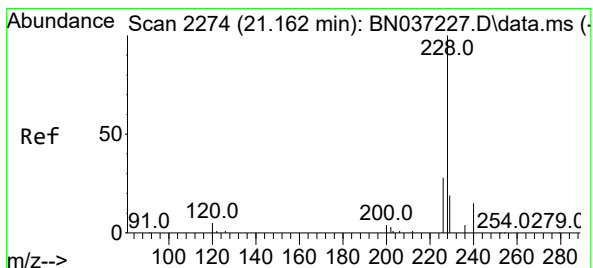
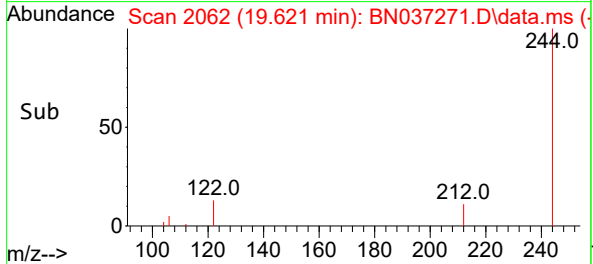
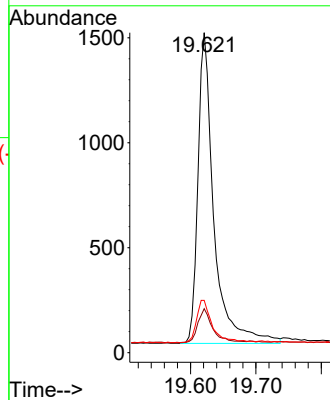
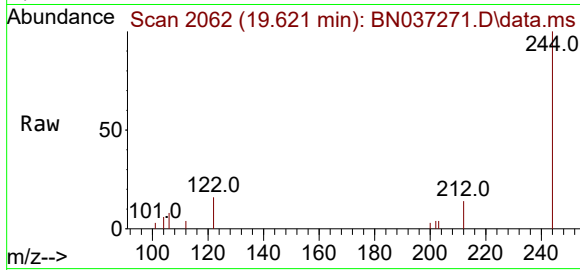




#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

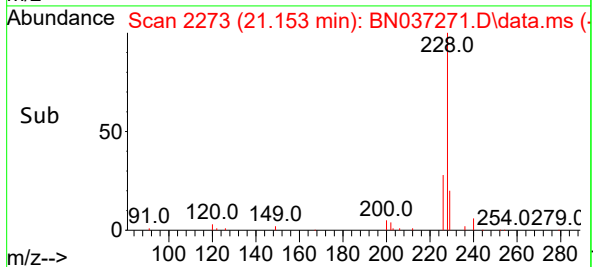
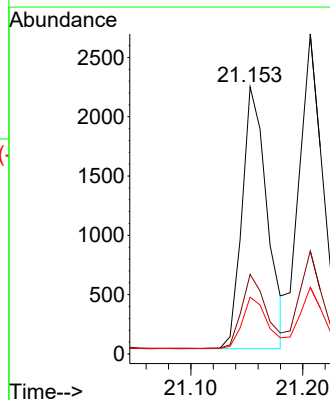
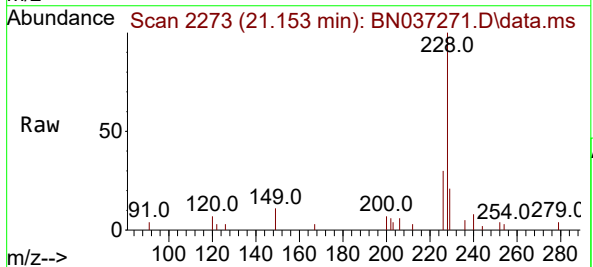
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

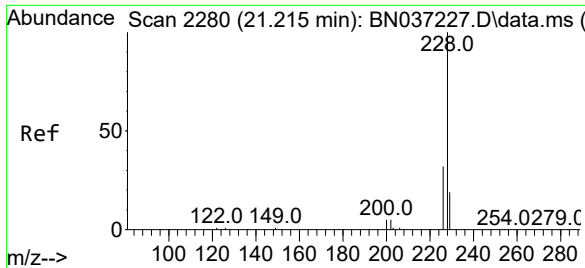
Tgt Ion:244 Resp: 2504
Ion Ratio Lower Upper
244 100
212 13.7 12.2 18.2
122 16.3 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:228 Resp: 3437
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.8
229 21.3 17.0 25.4





#33

Chrysene

Concen: 0.398 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

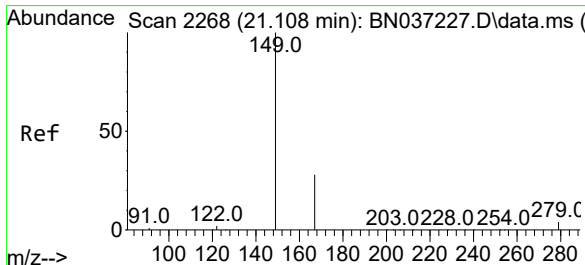
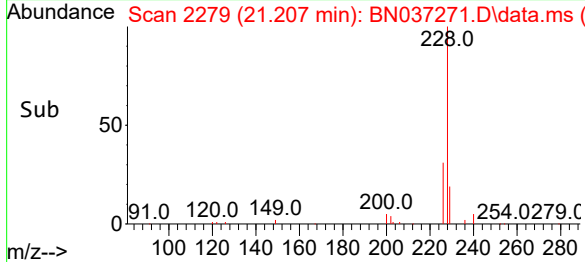
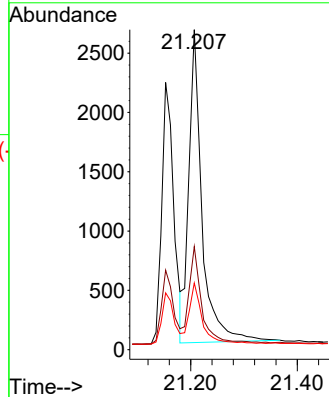
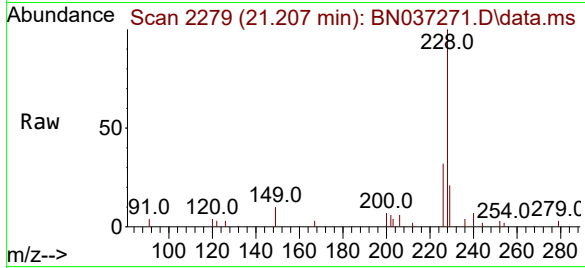
Tgt Ion:228 Resp: 4510

Ion Ratio Lower Upper

228 100

226 32.2 25.8 38.6

229 20.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.400 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

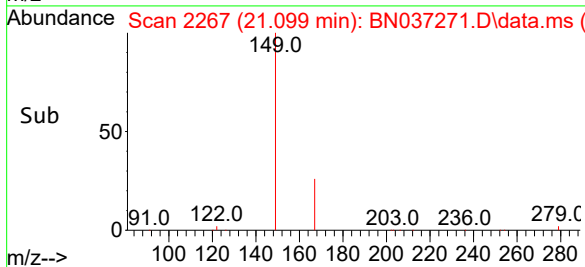
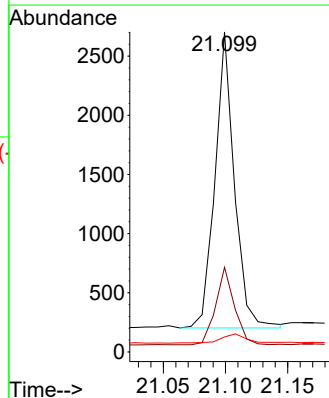
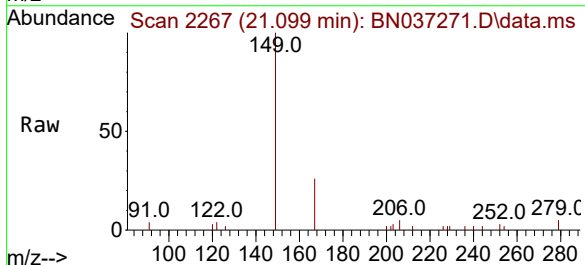
Tgt Ion:149 Resp: 2710

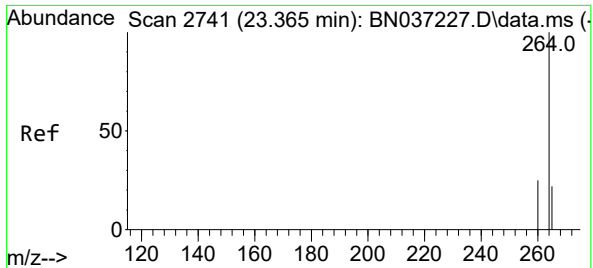
Ion Ratio Lower Upper

149 100

167 25.2 21.3 31.9

279 4.0 3.3 4.9

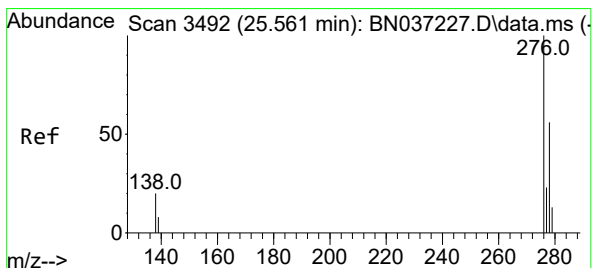
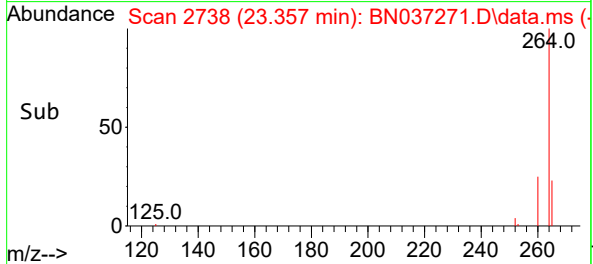
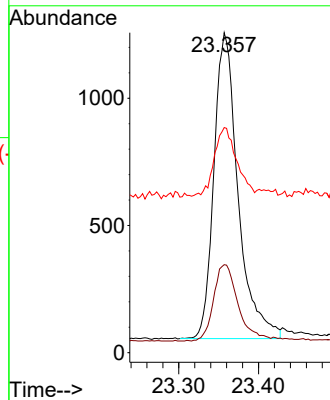
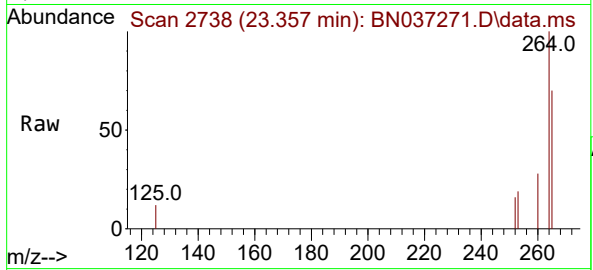




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

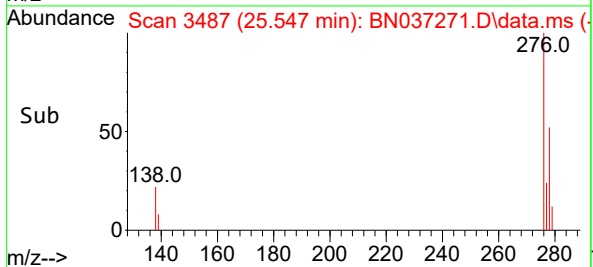
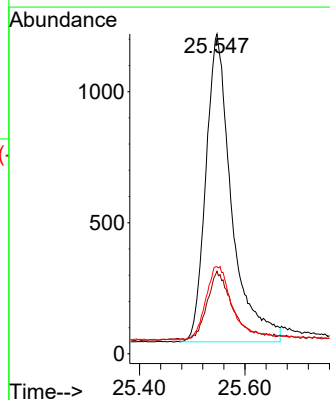
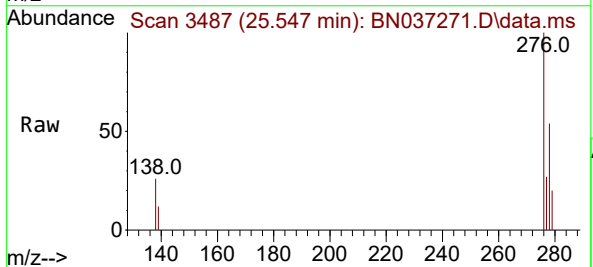
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

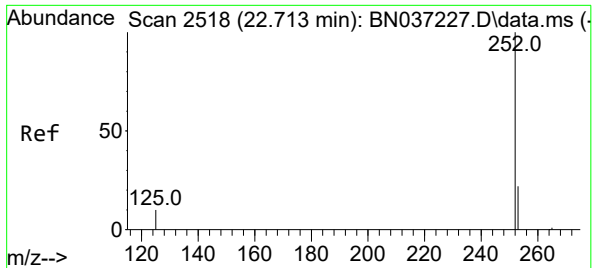
Tgt Ion:264 Resp: 2531
Ion Ratio Lower Upper
264 100
260 27.5 22.8 34.2
265 70.3 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.014 min
Lab File: BN037271.D
Acq: 14 Jun 2025 20:36

Tgt Ion:276 Resp: 3975
Ion Ratio Lower Upper
276 100
138 20.7 16.8 25.2
277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.391 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

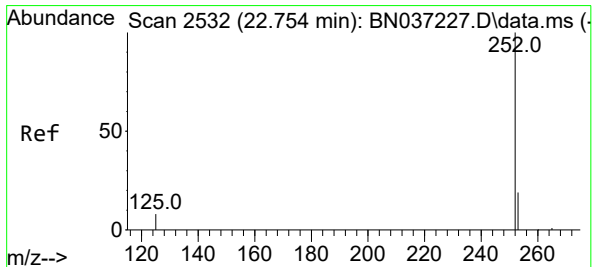
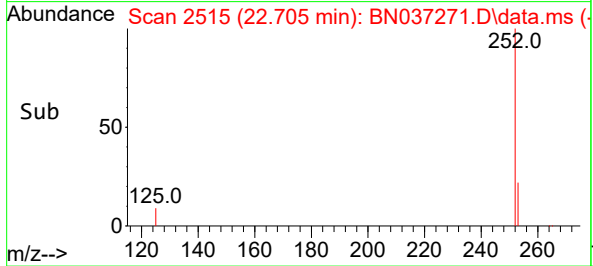
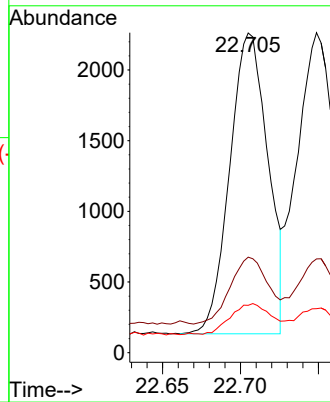
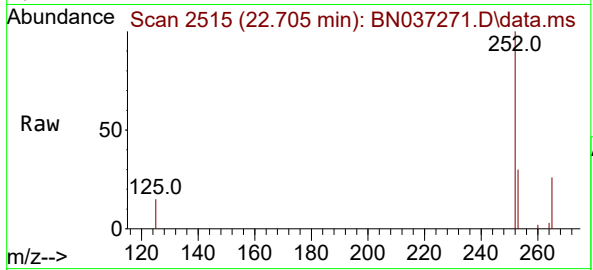
Tgt Ion:252 Resp: 3621

Ion Ratio Lower Upper

252 100

253 29.9 24.9 37.3

125 14.8 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.371 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

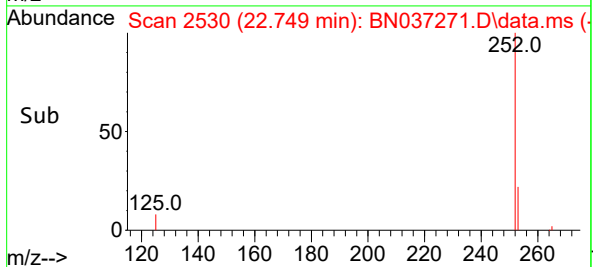
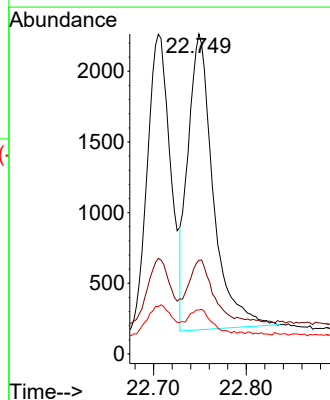
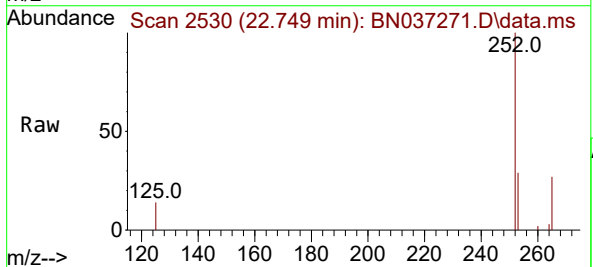
Tgt Ion:252 Resp: 3967

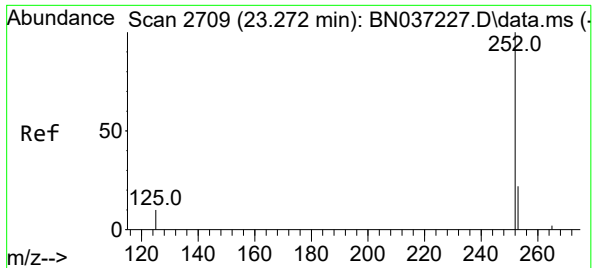
Ion Ratio Lower Upper

252 100

253 29.3 24.6 37.0

125 13.7 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.398 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

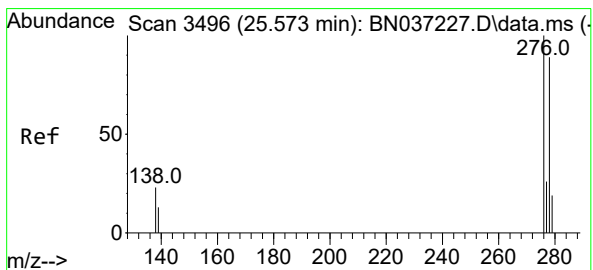
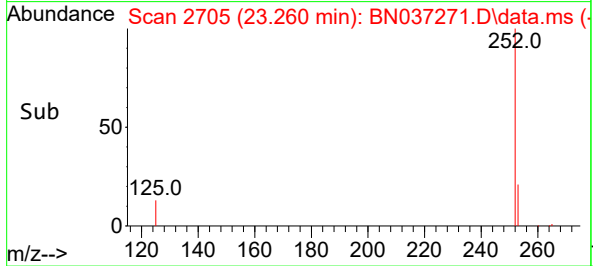
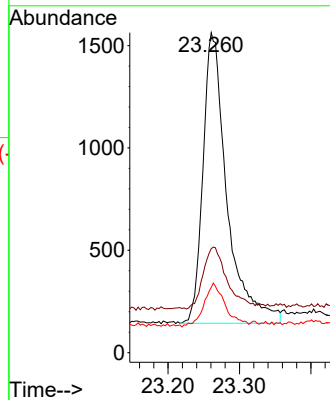
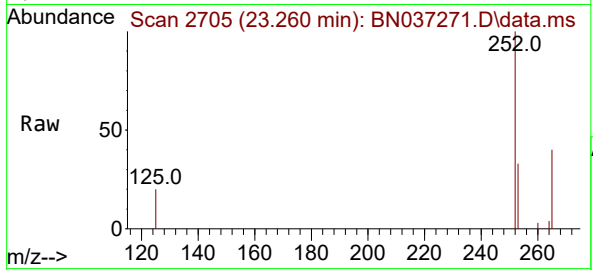
Tgt Ion:252 Resp: 3312

Ion Ratio Lower Upper

252 100

253 32.5 29.4 44.2

125 20.4 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.011 min

Lab File: BN037271.D

Acq: 14 Jun 2025 20:36

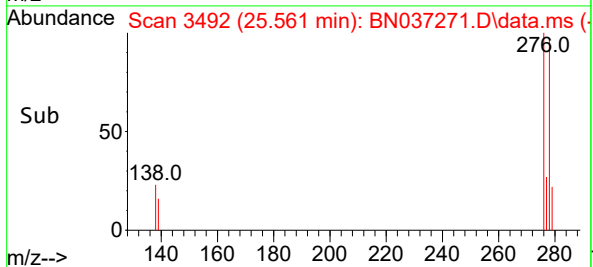
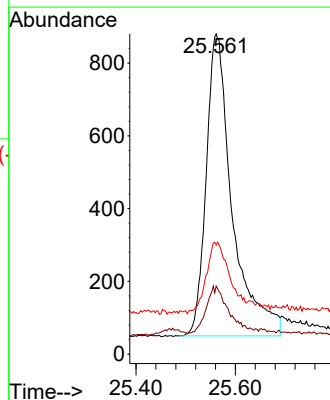
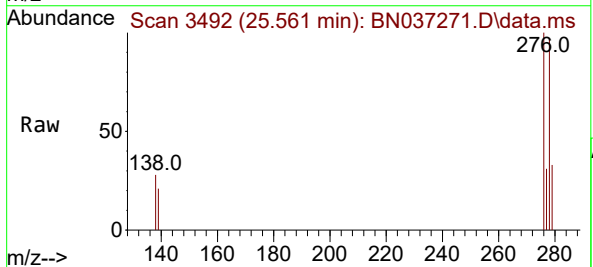
Tgt Ion:278 Resp: 3030

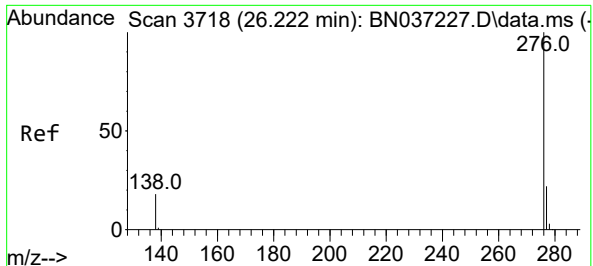
Ion Ratio Lower Upper

278 100

139 21.3 17.8 26.6

279 34.1 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.390 ng

RT: 26.208 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037271.D

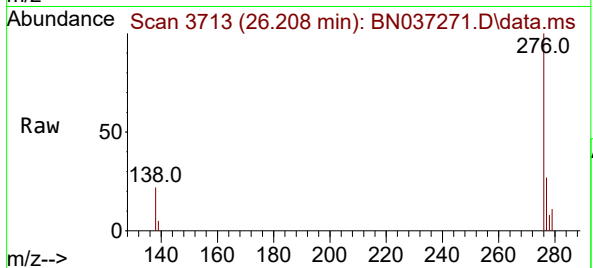
Acq: 14 Jun 2025 20:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



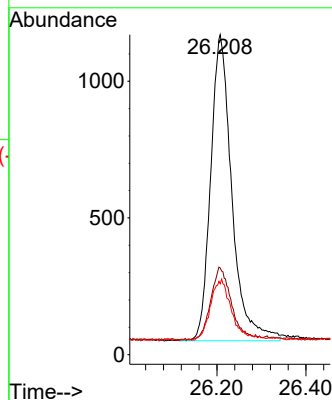
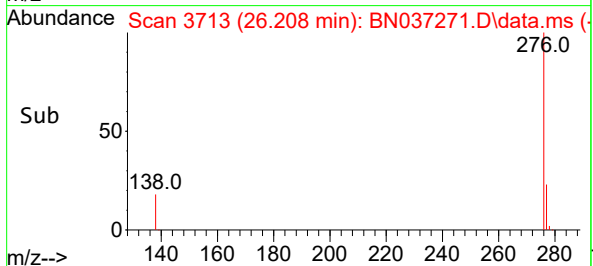
Tgt Ion:276 Resp: 3692

Ion Ratio Lower Upper

276 100

277 27.1 22.0 33.0

138 22.1 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037271.D
 Acq On : 14 Jun 2025 20:36
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:45:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	0.549	0.489	10.9	108	0.00
3	n-Nitrosodimethylamine	1.250	1.252	-0.2	114	0.00
4 S	2-Fluorophenol	0.982	0.935	4.8	116	0.00
5 S	Phenol-d6	1.035	1.035	0.0	125	0.00
6	bis(2-Chloroethyl)ether	0.927	1.021	-10.1	137	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	115	-0.01
8 S	Nitrobenzene-d5	0.395	0.414	-4.8	124	0.00
9	Naphthalene	1.158	1.158	0.0	118	0.00
10	Hexachlorobutadiene	0.282	0.295	-4.6	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.576	-7.3	119	0.00
12	2-Methylnaphthalene	0.704	0.702	0.3	115	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
14 S	2,4,6-Tribromophenol	0.166	0.164	1.2	109	-0.01
15 S	2-Fluorobiphenyl	1.681	1.725	-2.6	116	0.00
16	Acenaphthylene	1.960	1.855	5.4	113	-0.01
17	Acenaphthene	1.265	1.207	4.6	111	0.00
18	Fluorene	1.625	1.547	4.8	111	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.076	17.4	128	-0.01
21	4-Bromophenyl-phenylether	0.261	0.256	1.9	118	0.00
22	Hexachlorobenzene	0.302	0.295	2.3	107	0.00
23	Atrazine	0.232	0.227	2.2	115	-0.01
24	Pentachlorophenol	0.148	0.140	5.4	127	0.00
25	Phenanthrene	1.269	1.226	3.4	116	-0.01
26	Anthracene	1.161	1.111	4.3	116	0.00
27 SURR	Fluoranthene-d10	1.046	1.069	-2.2	114	0.00
28	Fluoranthene	1.485	1.409	5.1	112	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	118	0.00
30	Pyrene	1.881	1.876	0.3	113	0.00
31 S	Terphenyl-d14	0.904	0.930	-2.9	116	0.00
32	Benzo(a)anthracene	1.351	1.277	5.5	123	0.00
33	Chrysene	1.683	1.675	0.5	117	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	1.007	-0.1	116	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.571	2.6	123	-0.01
37	Benzo(b)fluoranthene	1.463	1.431	2.2	122	0.00
38	Benzo(k)fluoranthene	1.689	1.567	7.2	113	0.00
39 C	Benzo(a)pyrene	1.316	1.309	0.5	125	-0.01
40	Dibenzo(a,h)anthracene	1.227	1.197	2.4	134	-0.01
41	Benzo(g,h,i)perylene	1.496	1.459	2.5	119	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037271.D
 Acq On : 14 Jun 2025 20:36
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 02:45:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	0.356	11.0	108	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	114	0.00
4 S	2-Fluorophenol	0.400	0.381	4.8	116	0.00
5 S	Phenol-d6	0.400	0.400	0.0	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.441	-10.2	137	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	115	-0.01
8 S	Nitrobenzene-d5	0.400	0.419	-4.7	124	0.00
9	Naphthalene	0.400	0.400	0.0	118	0.00
10	Hexachlorobutadiene	0.400	0.419	-4.7	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.429	-7.2	119	0.00
12	2-Methylnaphthalene	0.400	0.399	0.3	115	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	114	0.00
14 S	2,4,6-Tribromophenol	0.400	0.395	1.3	109	-0.01
15 S	2-Fluorobiphenyl	0.400	0.410	-2.5	116	0.00
16	Acenaphthylene	0.400	0.379	5.3	113	-0.01
17	Acenaphthene	0.400	0.382	4.5	111	0.00
18	Fluorene	0.400	0.381	4.8	111	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	112	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.404	-1.0	128	-0.01
21	4-Bromophenyl-phenylether	0.400	0.393	1.8	118	0.00
22	Hexachlorobenzene	0.400	0.391	2.3	107	0.00
23	Atrazine	0.400	0.391	2.3	115	-0.01
24	Pentachlorophenol	0.400	0.379	5.3	127	0.00
25	Phenanthrene	0.400	0.386	3.5	116	-0.01
26	Anthracene	0.400	0.383	4.3	116	0.00
27 SURR	Fluoranthene-d10	0.400	0.408	-2.0	114	0.00
28	Fluoranthene	0.400	0.379	5.3	112	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	118	0.00
30	Pyrene	0.400	0.399	0.3	113	0.00
31 S	Terphenyl-d14	0.400	0.411	-2.7	116	0.00
32	Benzo(a)anthracene	0.400	0.378	5.5	123	0.00
33	Chrysene	0.400	0.398	0.5	117	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.400	0.0	116	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	123	-0.01
37	Benzo(b)fluoranthene	0.400	0.391	2.3	122	0.00
38	Benzo(k)fluoranthene	0.400	0.371	7.3	113	0.00
39 C	Benzo(a)pyrene	0.400	0.398	0.5	125	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.390	2.5	134	-0.01
41	Benzo(g,h,i)perylene	0.400	0.390	2.5	119	-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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/16/2025 10:23

Lab File ID: BN037284.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.560		4.3	20.0
Fluoranthene-d10	1.047	1.053		0.7	20.0
2-Fluorophenol	0.982	0.918		-6.5	20.0
Phenol-d6	1.035	1.022		-1.3	20.0
Nitrobenzene-d5	0.395	0.424		7.3	20.0
2-Fluorobiphenyl	1.681	1.751		4.2	20.0
2,4,6-Tribromophenol	0.166	0.178		7.2	20.0
Terphenyl-d14	0.904	0.946		4.6	20.0
1,4-Dioxane	0.549	0.530		-3.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037284.D
 Acq On : 16 Jun 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

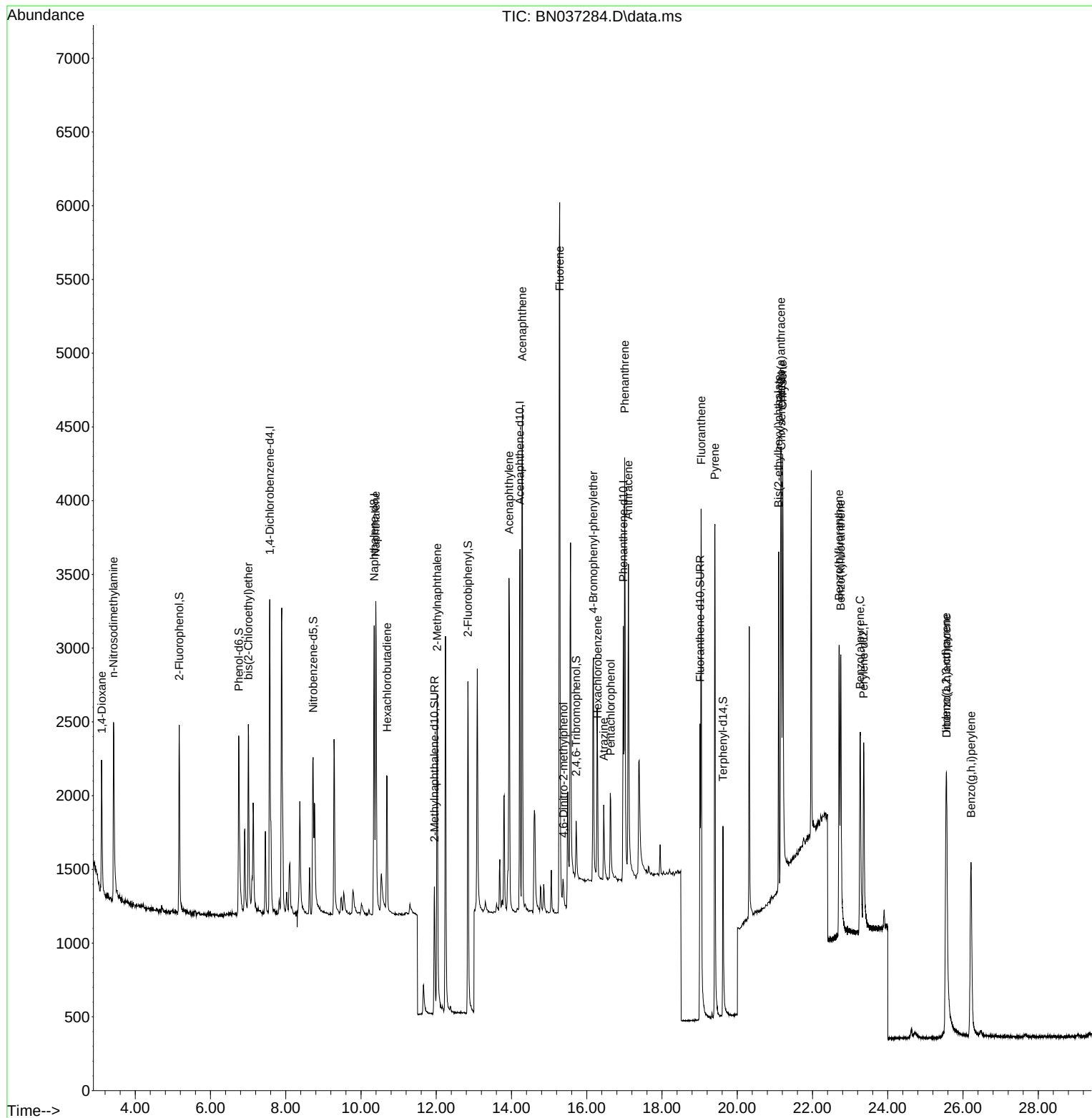
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1056	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2600	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1364	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2522	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	1830	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1806	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	969	0.374	ng	0.00
5) Phenol-d6	6.752	99	1079	0.395	ng	0.00
8) Nitrobenzene-d5	8.728	82	1102	0.429	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1456	0.417	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	243	0.429	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2388	0.417	ng	0.00
27) Fluoranthene-d10	19.012	212	2655	0.402	ng	0.00
31) Terphenyl-d14	19.621	244	1731	0.418	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.112	88	560	0.387	ng	90
3) n-Nitrosodimethylamine	3.422	42	1389	0.421	ng	# 93
6) bis(2-Chloroethyl)ether	7.005	93	1037	0.424	ng	92
9) Naphthalene	10.394	128	2984	0.396	ng	99
10) Hexachlorobutadiene	10.693	225	747	0.408	ng	# 94
12) 2-Methylnaphthalene	12.026	142	1824	0.398	ng	99
16) Acenaphthylene	13.935	152	2640	0.395	ng	100
17) Acenaphthene	14.288	154	1681	0.390	ng	99
18) Fluorene	15.282	166	2137	0.386	ng	97
20) 4,6-Dinitro-2-methylph...	15.379	198	220	0.449	ng	88
21) 4-Bromophenyl-phenylether	16.177	248	666	0.405	ng	# 84
22) Hexachlorobenzene	16.289	284	769	0.404	ng	97
23) Atrazine	16.450	200	556	0.379	ng	95
24) Pentachlorophenol	16.636	266	387	0.415	ng	95
25) Phenanthrene	17.009	178	3070	0.384	ng	99
26) Anthracene	17.108	178	2780	0.380	ng	99
28) Fluoranthene	19.040	202	3477	0.371	ng	99
30) Pyrene	19.407	202	3532	0.411	ng	100
32) Benzo(a)anthracene	21.162	228	2471	0.400	ng	99
33) Chrysene	21.207	228	3003	0.390	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2037	0.443	ng	98
36) Indeno(1,2,3-cd)pyrene	25.553	276	2942	0.404	ng	96
37) Benzo(b)fluoranthene	22.708	252	2557	0.387	ng	99
38) Benzo(k)fluoranthene	22.752	252	2890	0.379	ng	98
39) Benzo(a)pyrene	23.263	252	2325	0.391	ng	# 94
40) Dibenzo(a,h)anthracene	25.564	278	2093	0.378	ng	97
41) Benzo(g,h,i)perylene	26.213	276	2630	0.389	ng	98

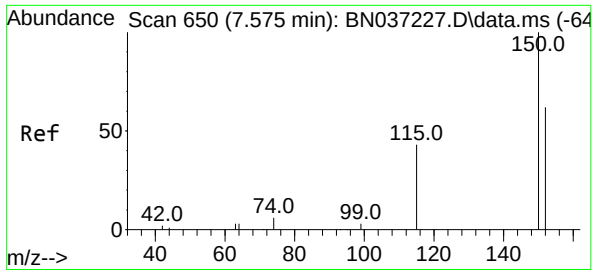
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037284.D
Acq On : 16 Jun 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

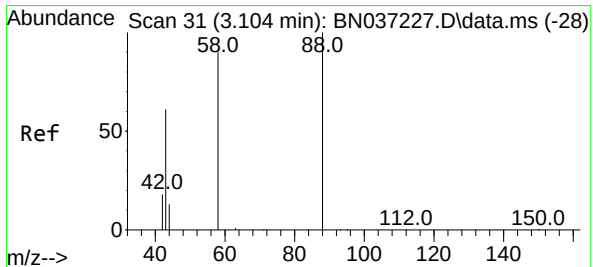
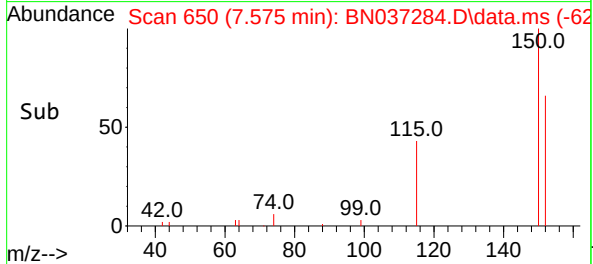
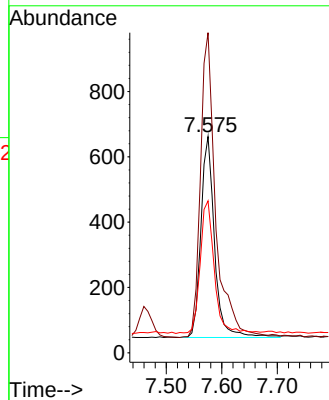
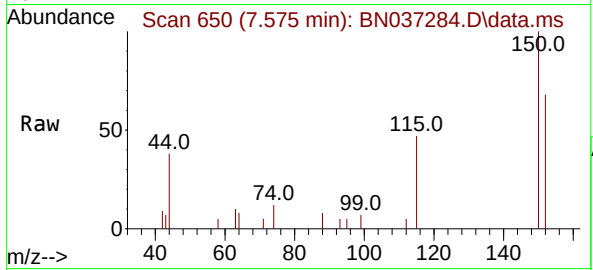




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

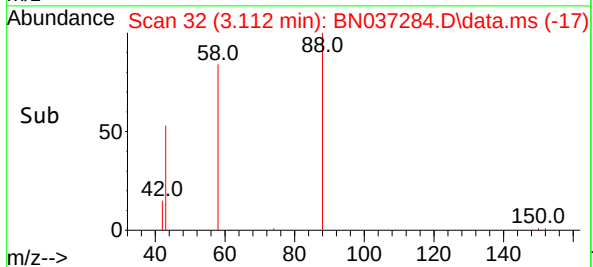
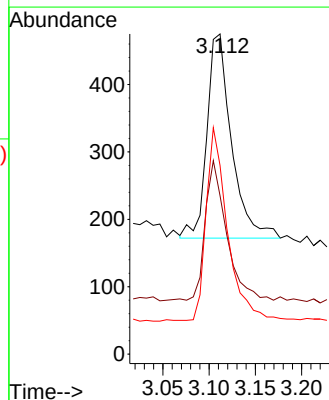
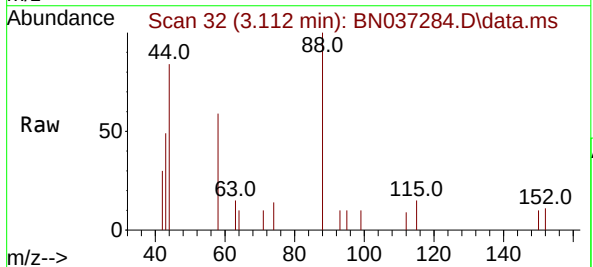
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1056
Ion Ratio Lower Upper
152 100
150 148.0 125.2 187.8
115 70.2 58.4 87.6

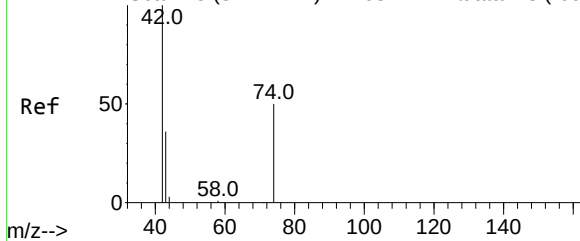


#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.112 min Scan# 32
Delta R.T. 0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion: 88 Resp: 560
Ion Ratio Lower Upper
88 100
43 59.1 52.6 79.0
58 81.6 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.421 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1389

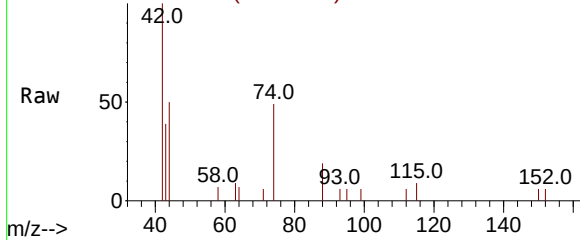
Ion Ratio Lower Upper

42 100

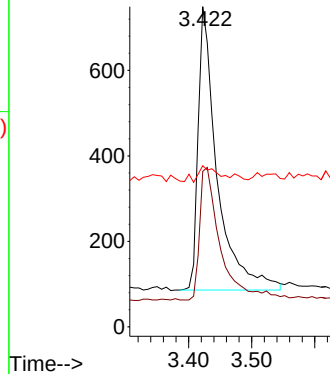
74 50.5 44.6 66.8

44 5.7 3.5 5.3#

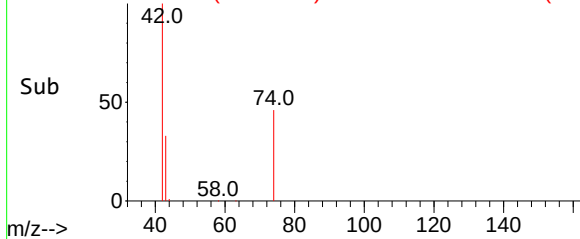
Abundance Scan 75 (3.422 min): BN037284.D\data.ms



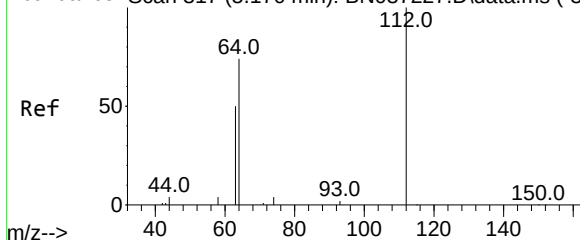
Abundance



Abundance Scan 75 (3.422 min): BN037284.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.374 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Tgt Ion: 112 Resp: 969

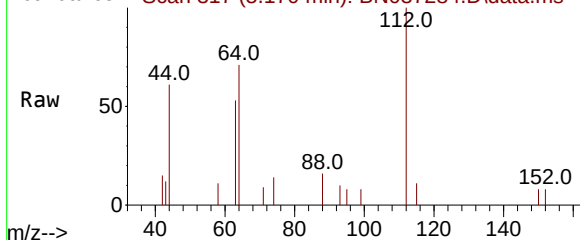
Ion Ratio Lower Upper

112 100

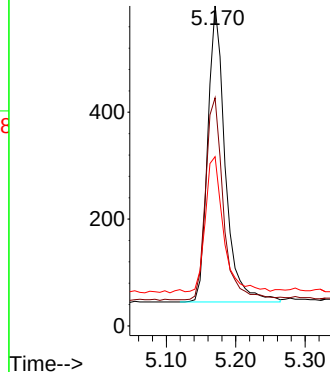
64 69.3 57.2 85.8

63 47.0 39.8 59.6

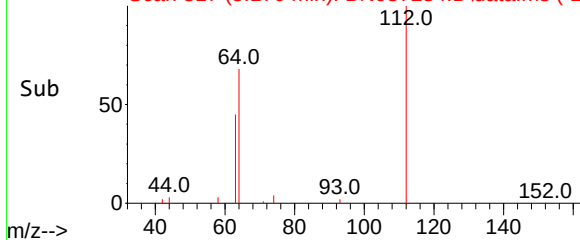
Abundance Scan 317 (5.170 min): BN037284.D\data.ms

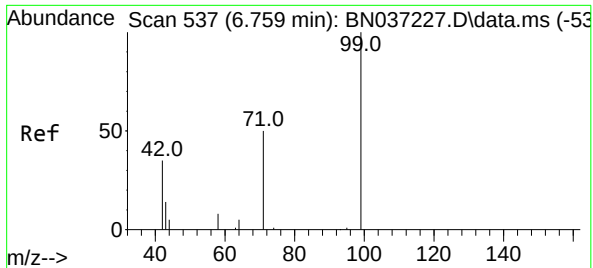


Abundance



Abundance Scan 317 (5.170 min): BN037284.D\data.ms (-28)

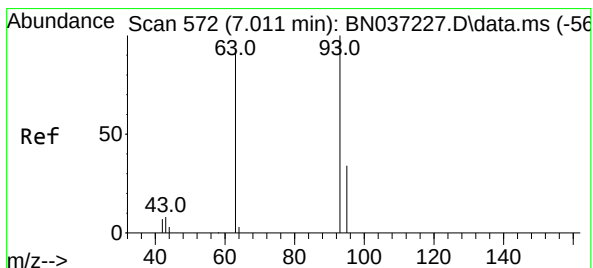
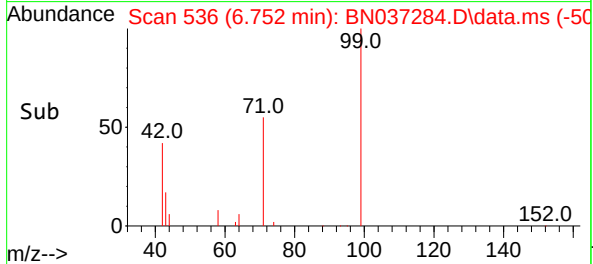
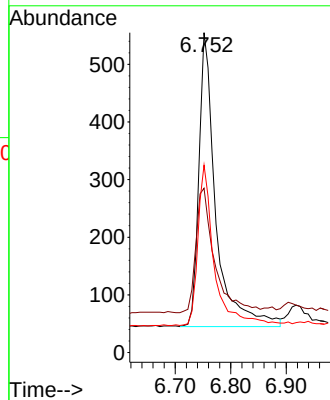
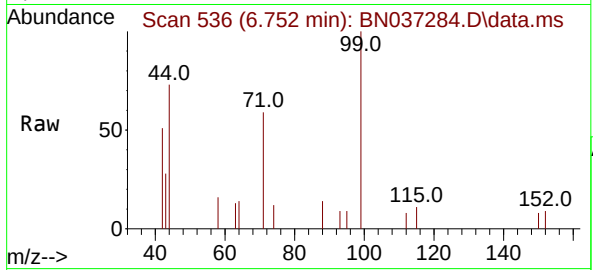




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

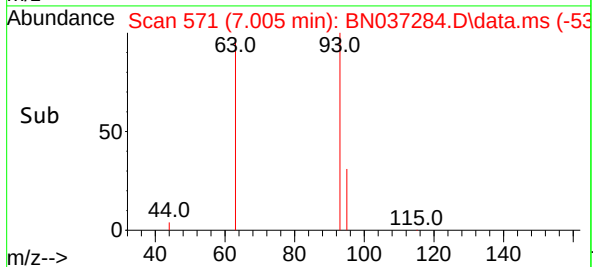
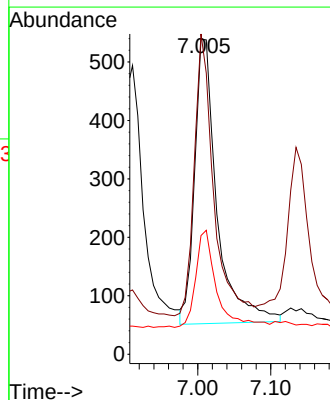
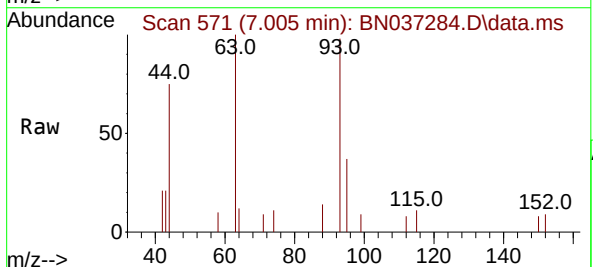
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

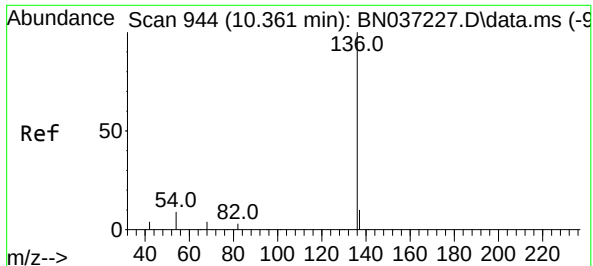
Tgt Ion	Ratio	Lower	Upper
99	100		
42	46.8	36.2	54.4
71	52.6	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.424 ng
RT: 7.005 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion	Ratio	Lower	Upper
93	100		
63	85.1	75.2	112.8
95	31.8	28.3	42.5

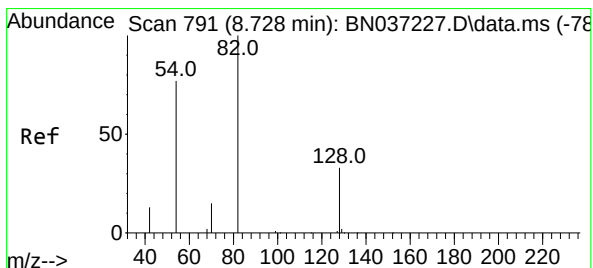
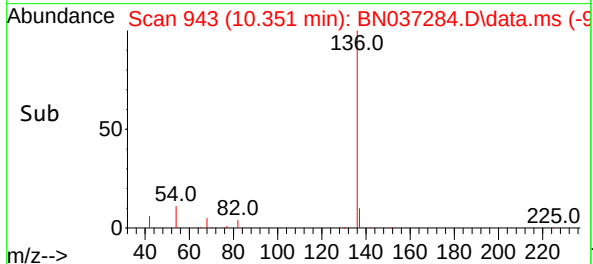
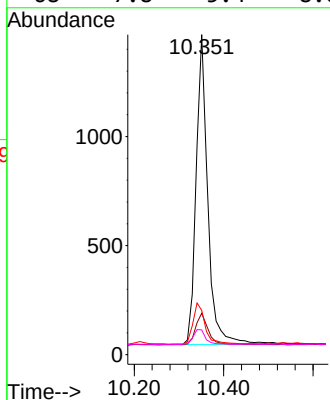
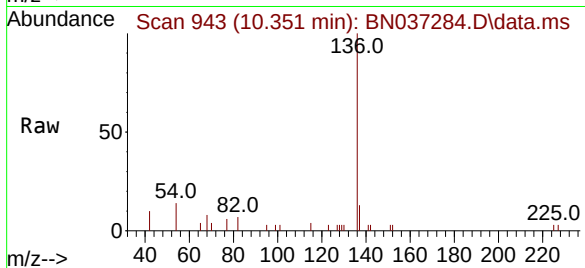




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

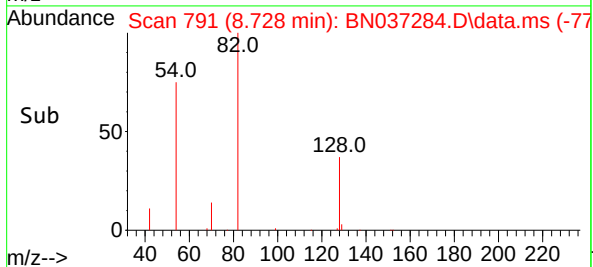
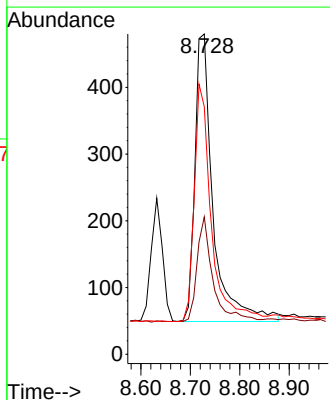
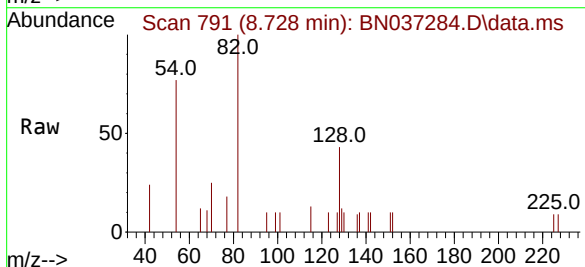
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

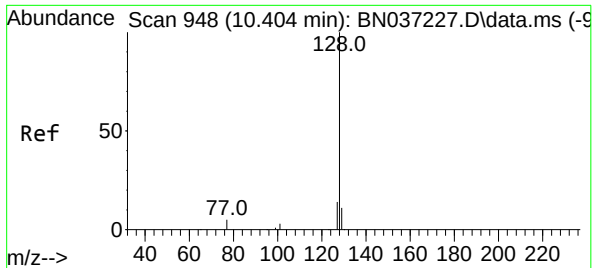
Tgt Ion:	136	Resp:	2600
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.6	15.8
54	13.8	9.2	13.8
68	7.8	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.429 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:	82	Resp:	1102
Ion	Ratio	Lower	Upper
82	100		
128	42.9	31.2	46.8
54	77.3	63.3	94.9

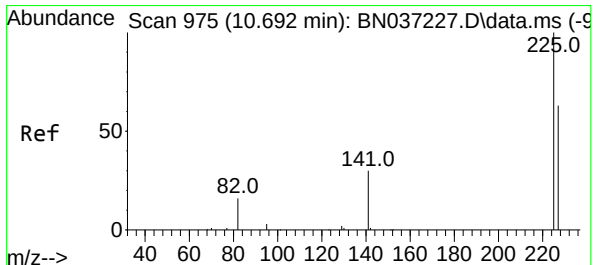
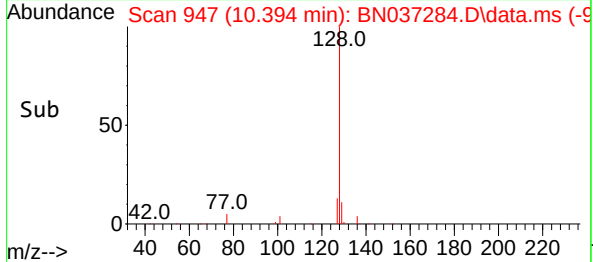
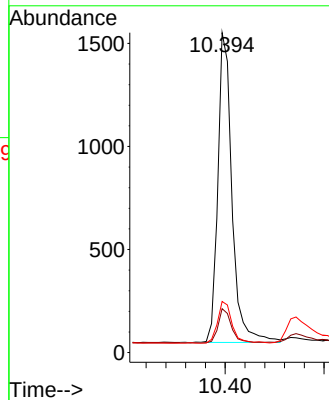
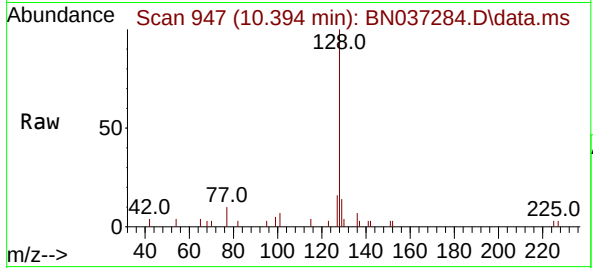




#9
Naphthalene
Concen: 0.396 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

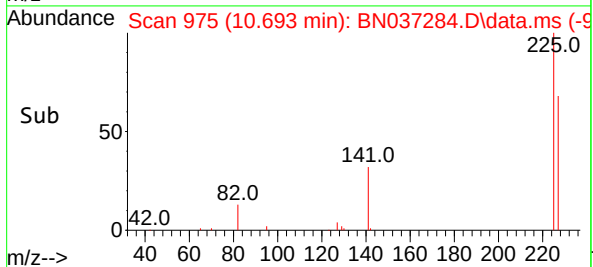
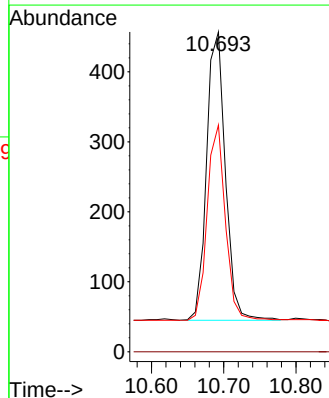
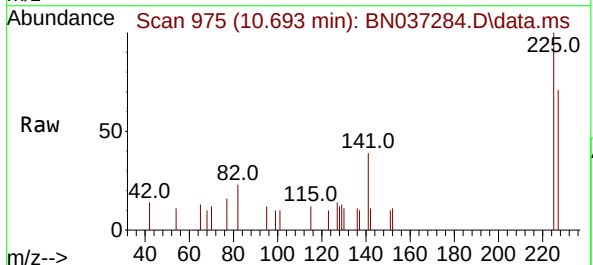
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

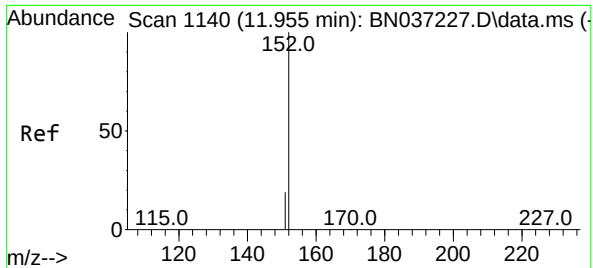
Tgt Ion:	128	Resp:	2984
Ion	Ratio	Lower	Upper
128	100		
129	13.7	10.7	16.1
127	16.0	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:	225	Resp:	747
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.7	49.2	73.8

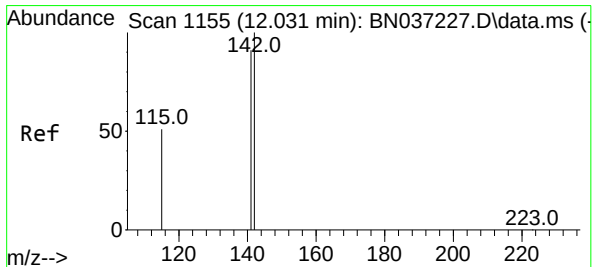
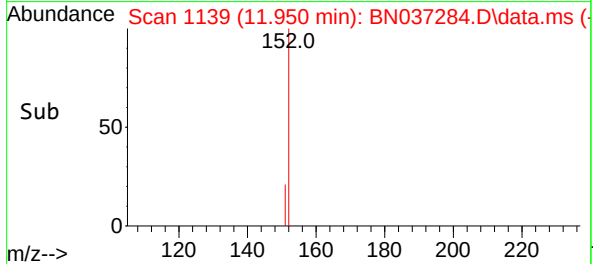
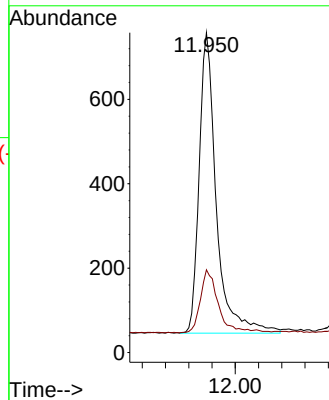
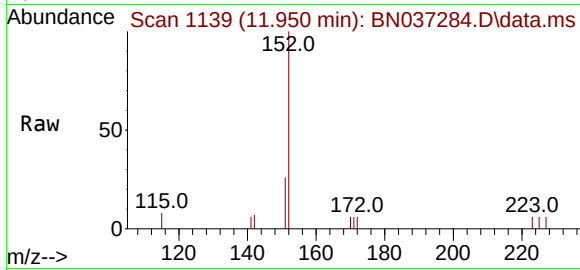




#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

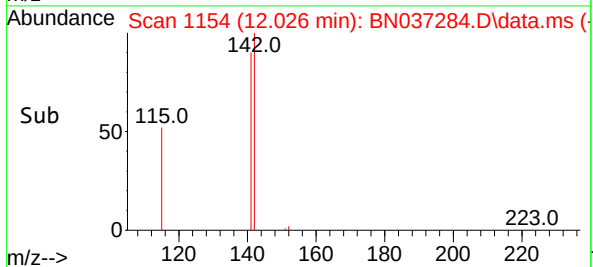
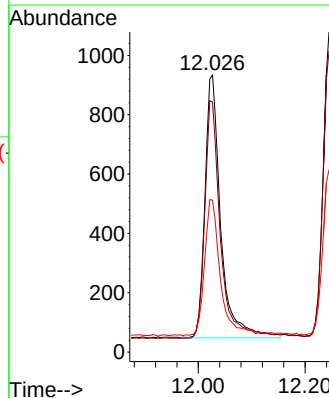
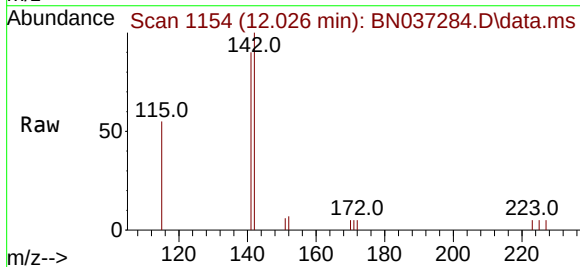
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

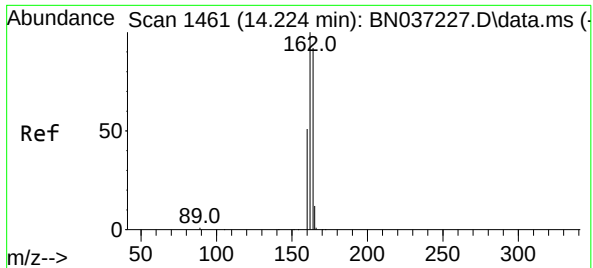
Tgt Ion:152 Resp: 1456
Ion Ratio Lower Upper
152 100
151 22.0 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.398 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:142 Resp: 1824
Ion Ratio Lower Upper
142 100
141 90.3 73.0 109.6
115 54.8 43.3 64.9

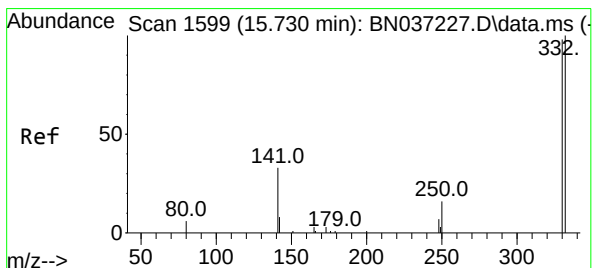
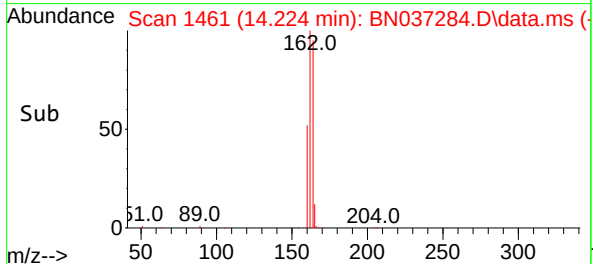
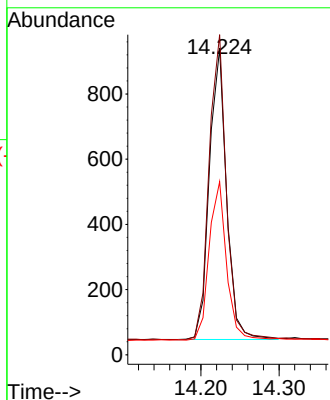
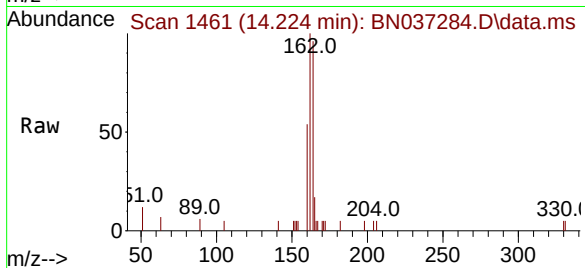




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

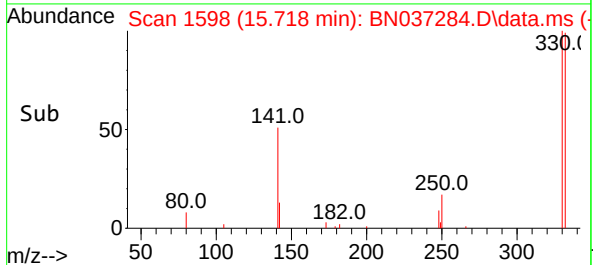
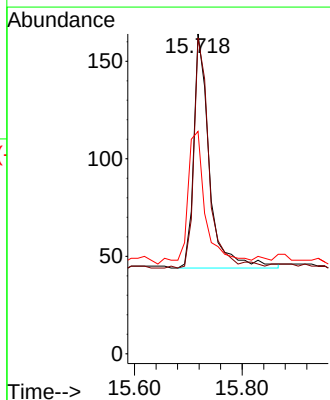
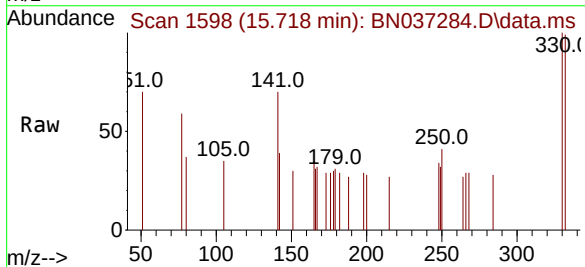
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

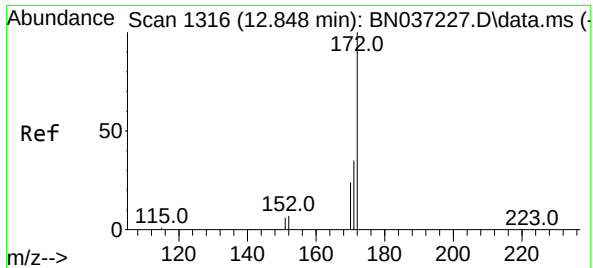
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.7	130.1
160	56.5	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.429 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	74.9	112.3
141	65.4	45.1	67.7

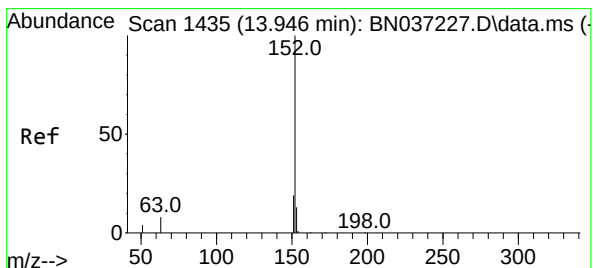
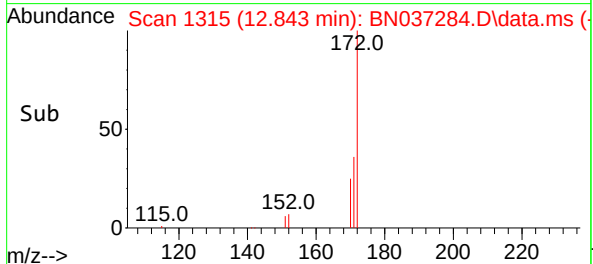
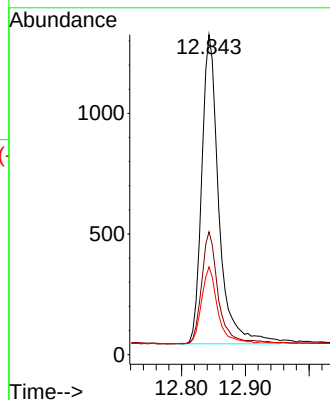
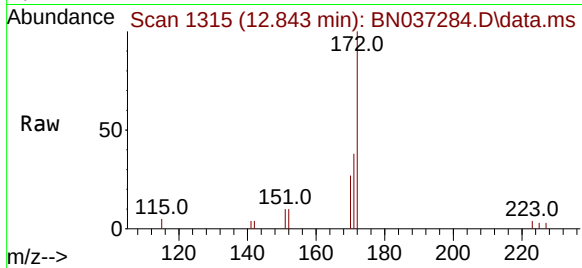




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

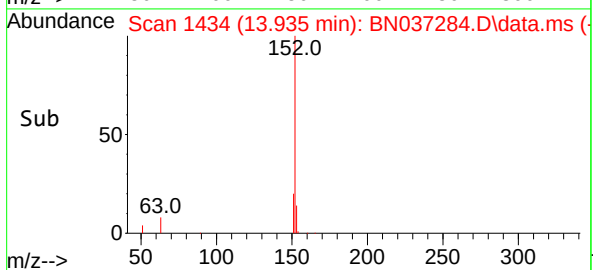
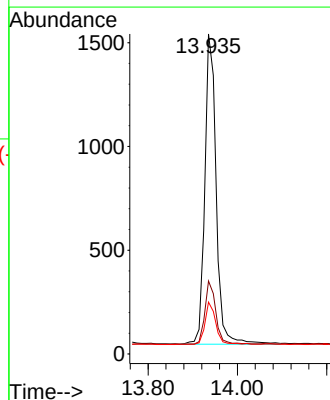
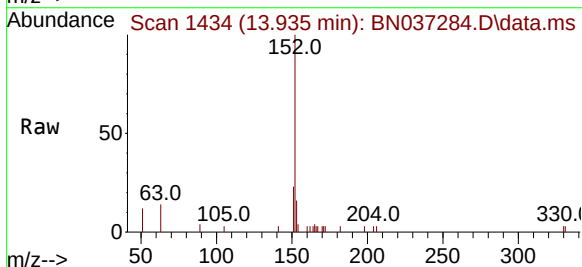
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

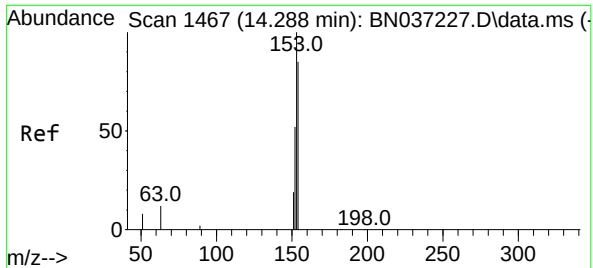
Tgt Ion:172 Resp: 2388
Ion Ratio Lower Upper
172 100
171 38.4 29.8 44.8
170 27.4 21.1 31.7



#16
Acenaphthylene
Concen: 0.395 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.010 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:152 Resp: 2640
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 13.0 10.7 16.1

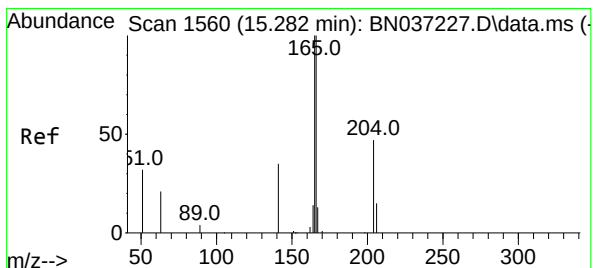
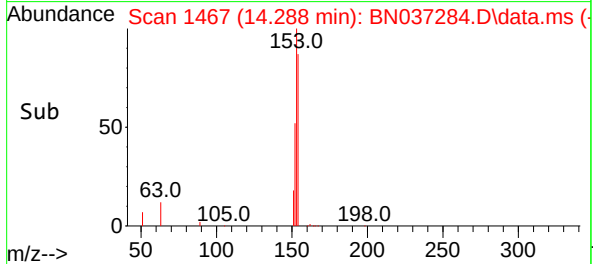
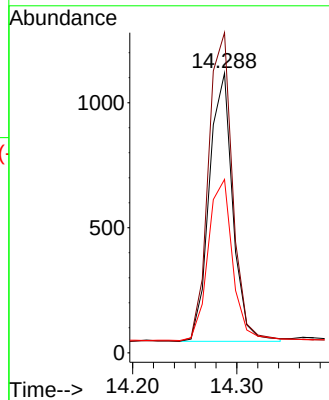
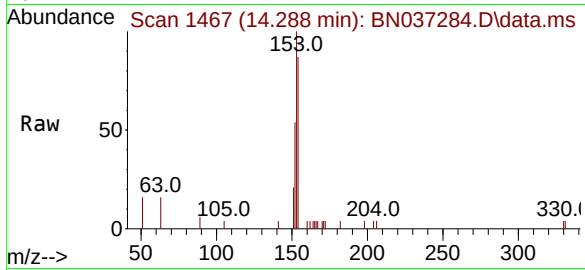




#17
Acenaphthene
Concen: 0.390 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

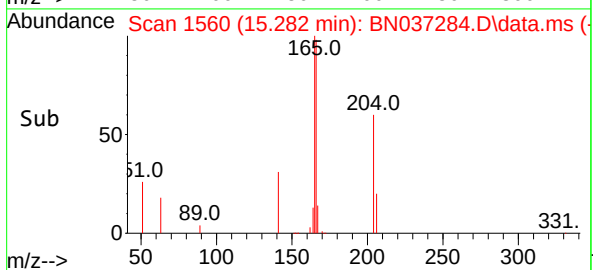
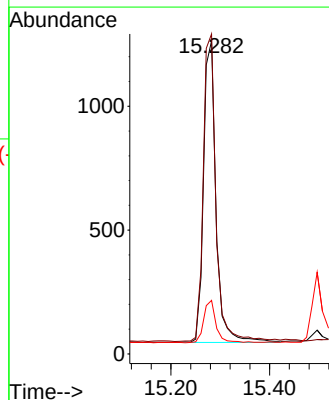
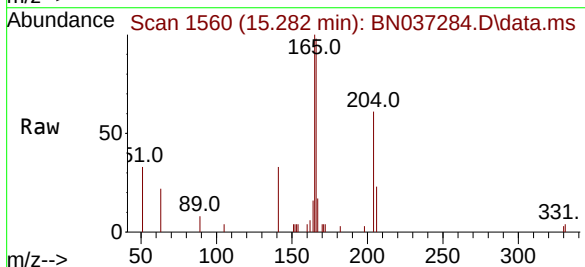
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

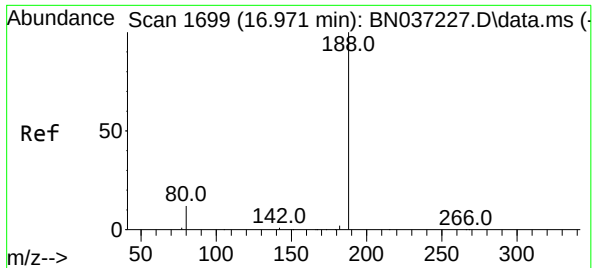
Tgt Ion:154 Resp: 1681
Ion Ratio Lower Upper
154 100
153 119.0 94.6 141.8
152 63.5 49.6 74.4



#18
Fluorene
Concen: 0.386 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:166 Resp: 2137
Ion Ratio Lower Upper
166 100
165 103.3 79.8 119.6
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

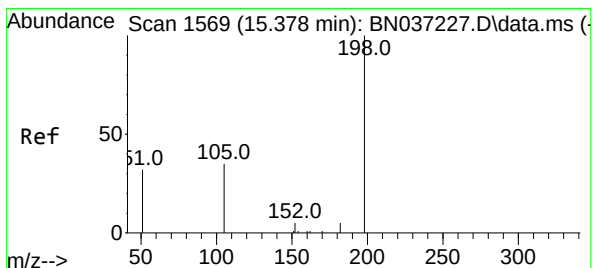
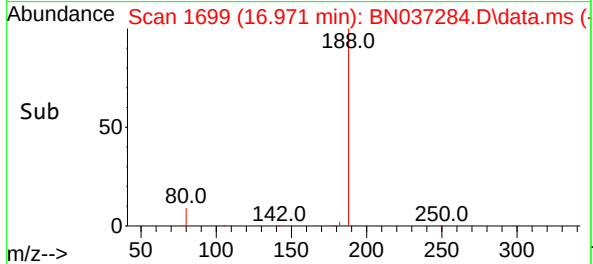
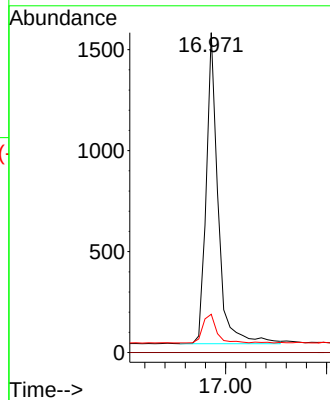
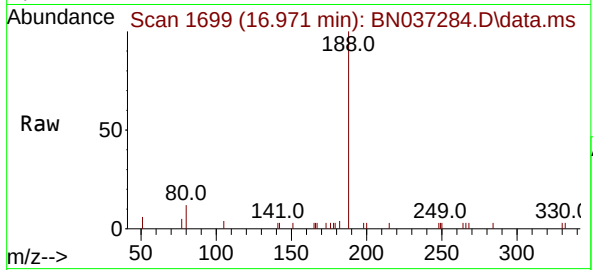
Tgt Ion:188 Resp: 2522

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.0 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.449 ng

RT: 15.379 min Scan# 1569

Delta R.T. 0.001 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

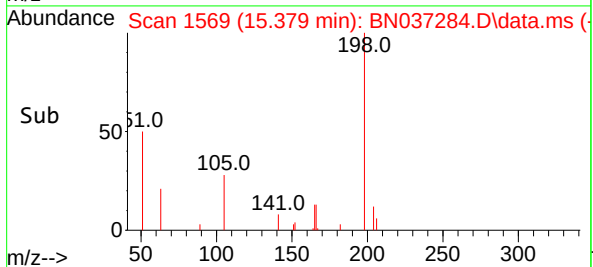
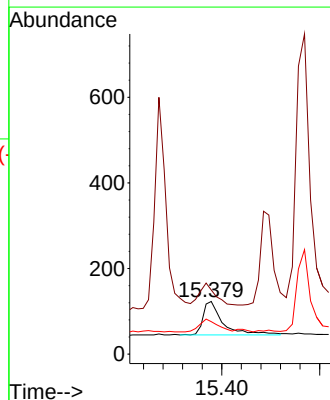
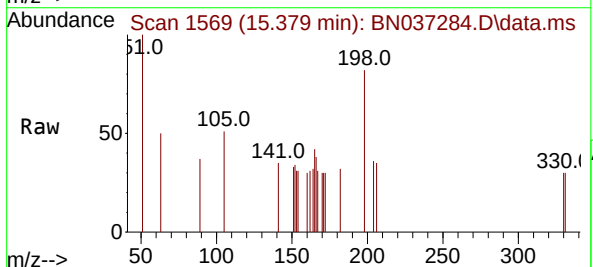
Tgt Ion:198 Resp: 220

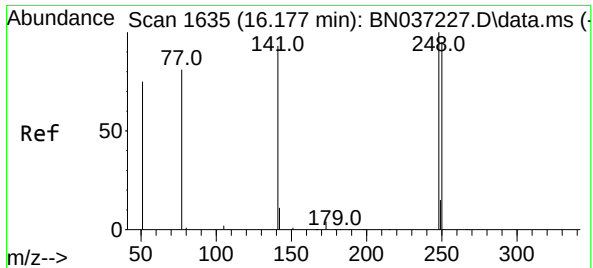
Ion Ratio Lower Upper

198 100

51 122.0 111.2 166.8

105 61.8 54.0 81.0

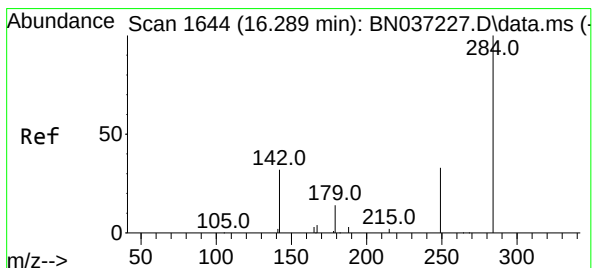
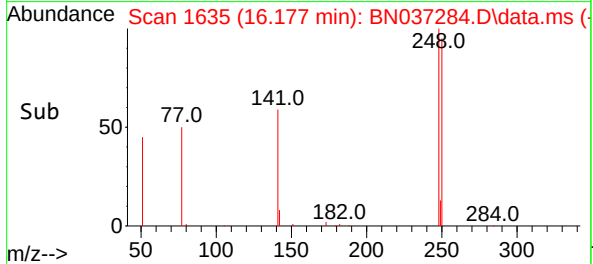
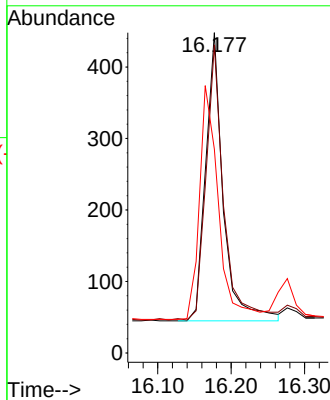
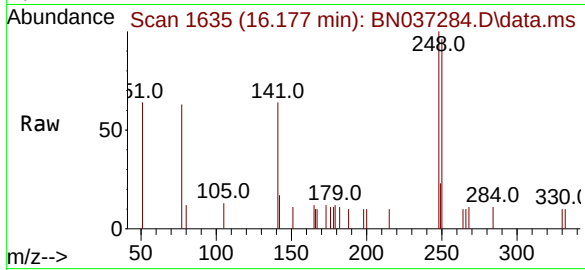




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

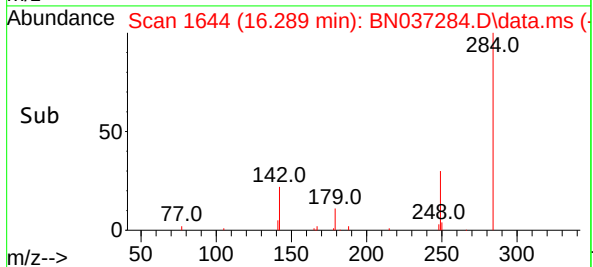
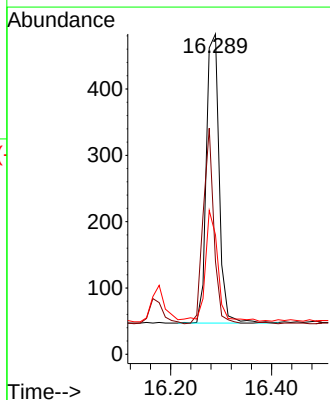
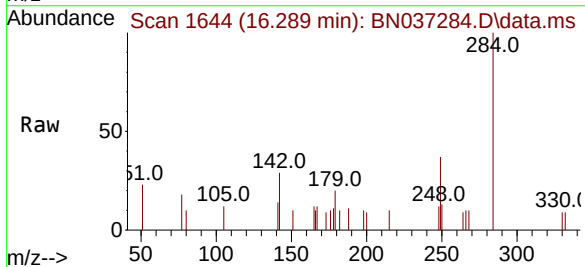
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

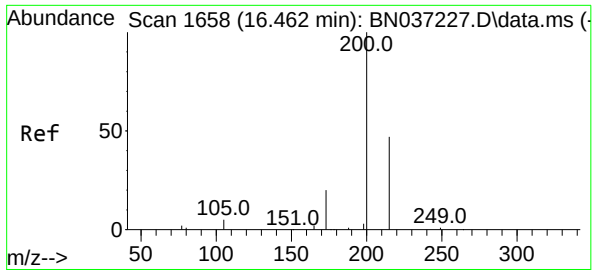
Tgt Ion:248 Resp: 666
Ion Ratio Lower Upper
248 100
250 96.2 76.8 115.2
141 63.6 75.6 113.4#



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:284 Resp: 769
Ion Ratio Lower Upper
284 100
142 57.1 43.8 65.6
249 37.5 28.4 42.6

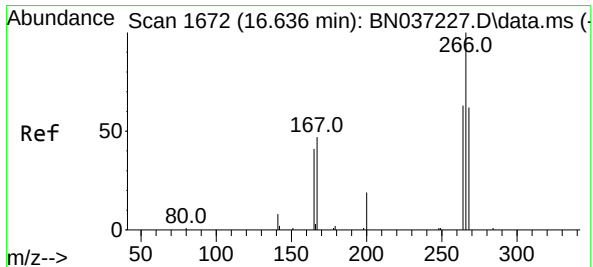
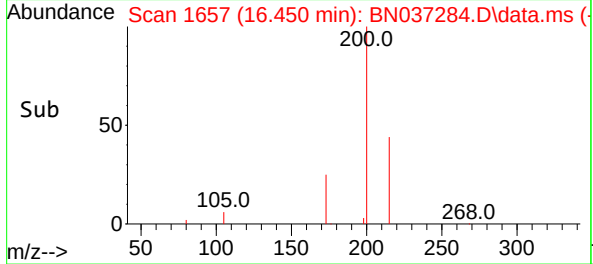
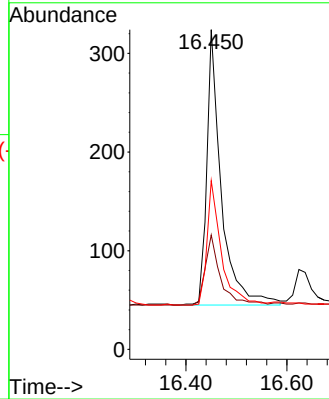
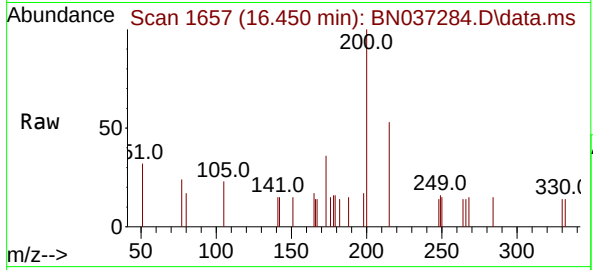




#23
Atrazine
Concen: 0.379 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

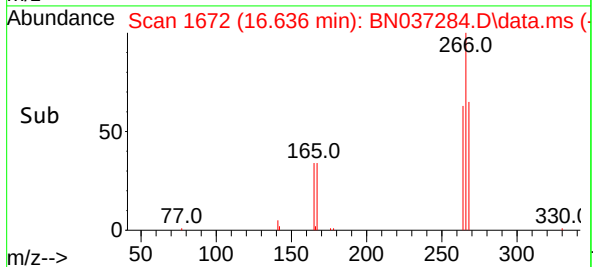
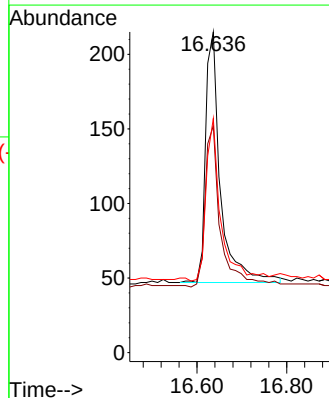
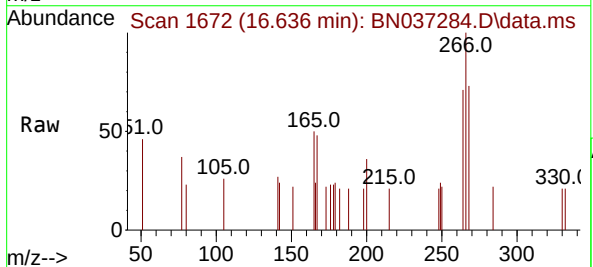
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

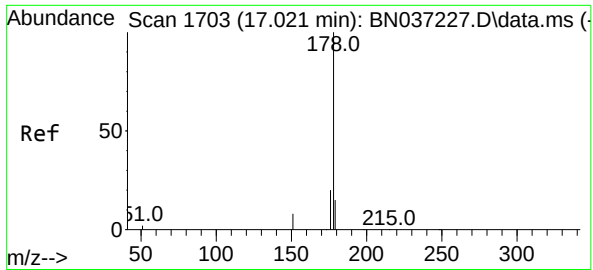
Tgt Ion:200 Resp: 556
Ion Ratio Lower Upper
200 100
173 35.8 25.1 37.7
215 52.8 43.7 65.5



#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:266 Resp: 387
Ion Ratio Lower Upper
266 100
264 67.2 49.2 73.8
268 64.9 53.4 80.2

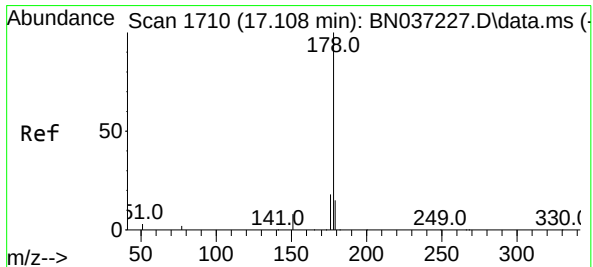
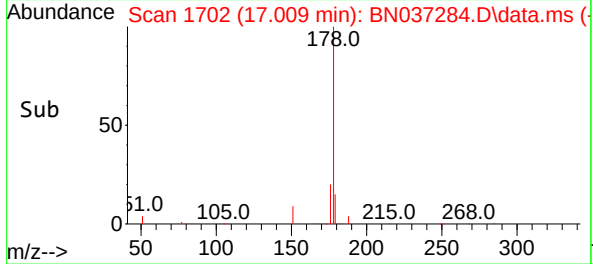
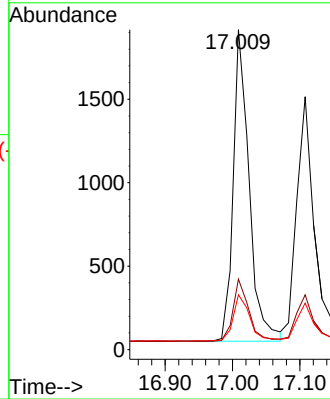
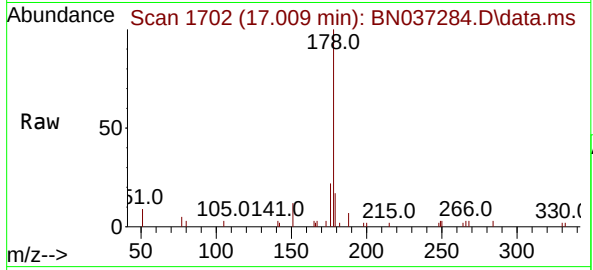




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

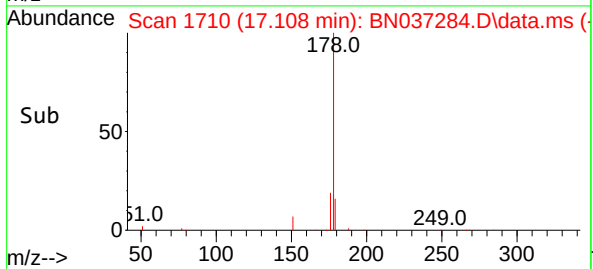
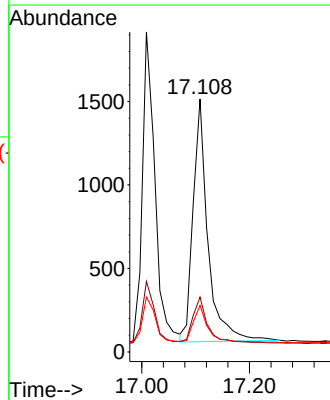
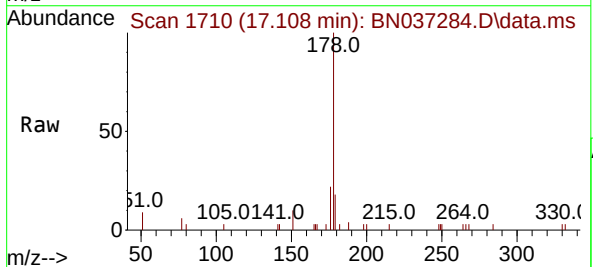
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

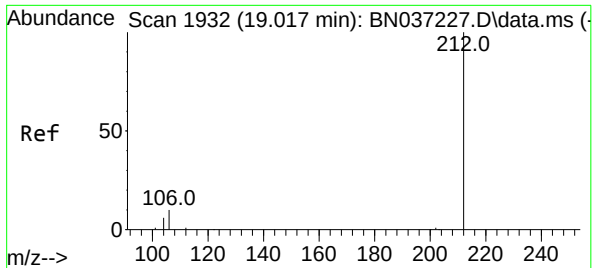
Tgt Ion:178 Resp: 3070
Ion Ratio Lower Upper
178 100
176 19.6 16.3 24.5
179 15.9 12.6 18.8



#26
Anthracene
Concen: 0.380 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:178 Resp: 2780
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.004 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

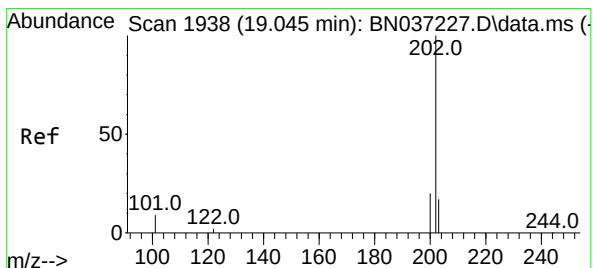
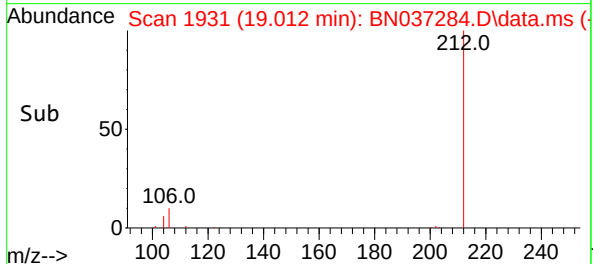
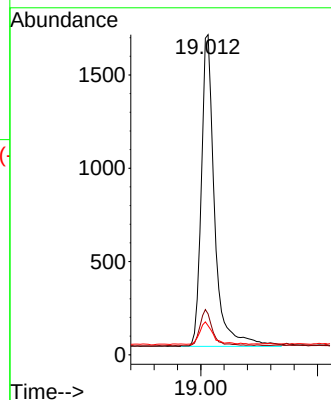
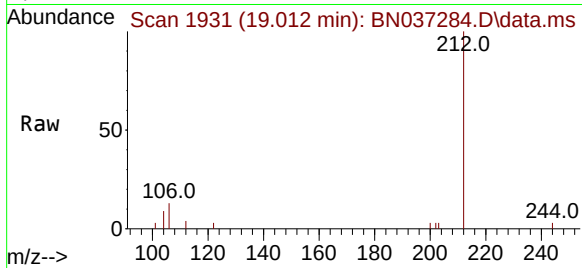
Tgt Ion:212 Resp: 2655

Ion Ratio Lower Upper

212 100

106 11.0 9.3 13.9

104 7.0 5.7 8.5



#28

Fluoranthene

Concen: 0.371 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.004 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

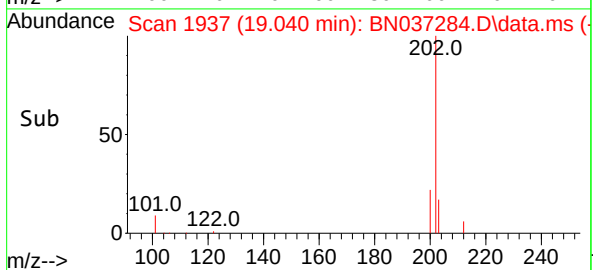
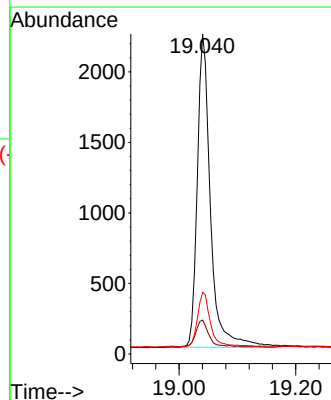
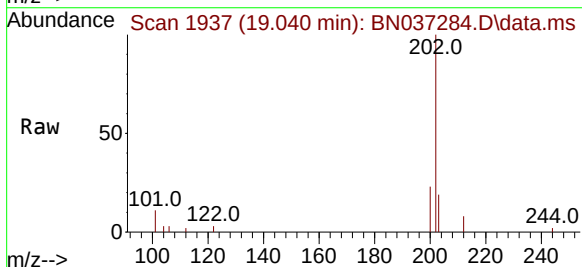
Tgt Ion:202 Resp: 3477

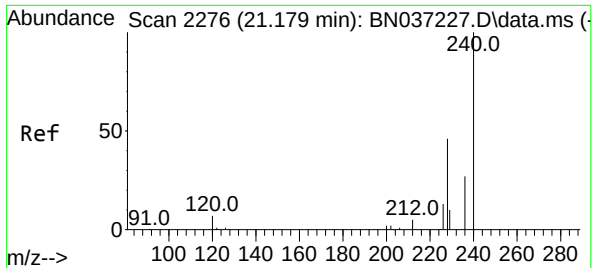
Ion Ratio Lower Upper

202 100

101 9.0 7.1 10.7

203 16.7 13.0 19.6

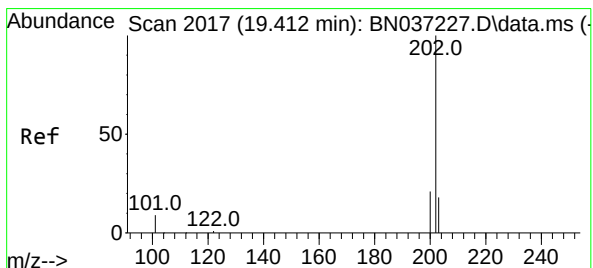
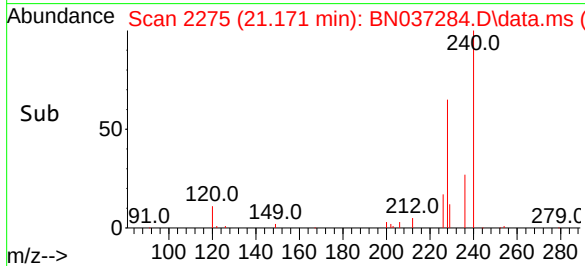
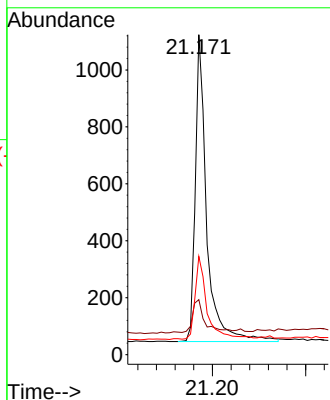
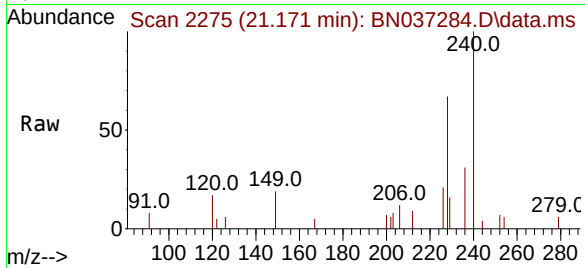




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

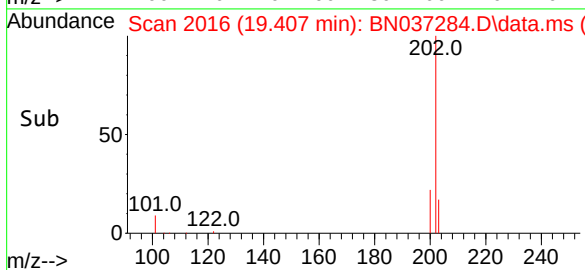
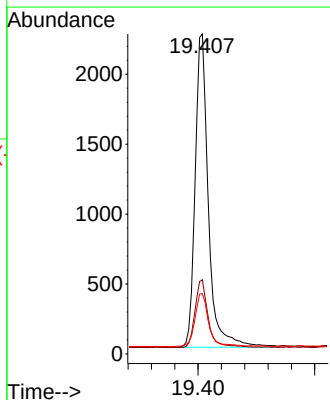
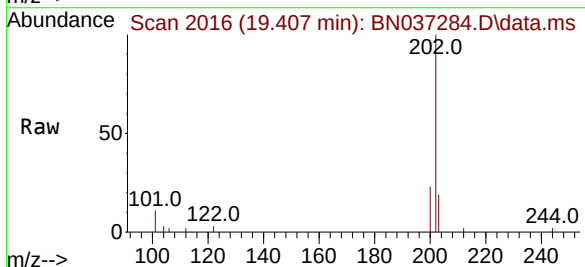
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

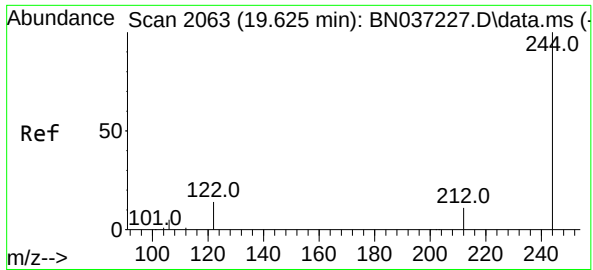
Tgt Ion:240 Resp: 1830
Ion Ratio Lower Upper
240 100
120 17.2 11.3 16.9#
236 30.7 24.4 36.6



#30
Pyrene
Concen: 0.411 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:202 Resp: 3532
Ion Ratio Lower Upper
202 100
200 21.3 17.2 25.8
203 17.9 14.3 21.5

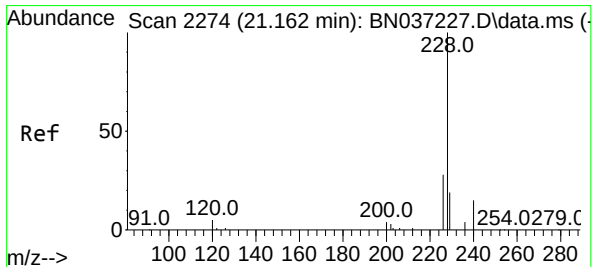
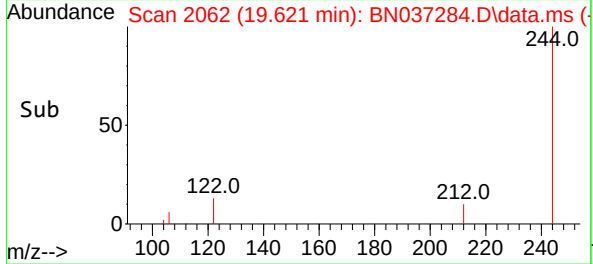
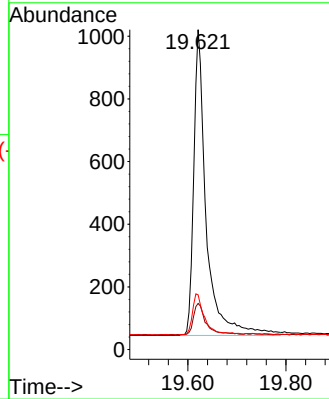
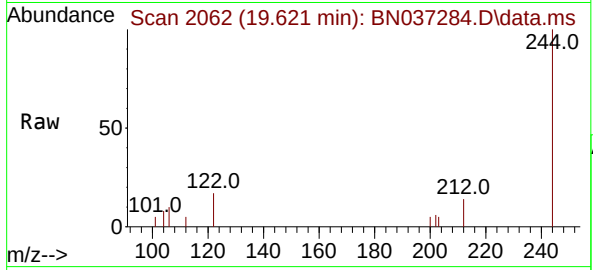




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

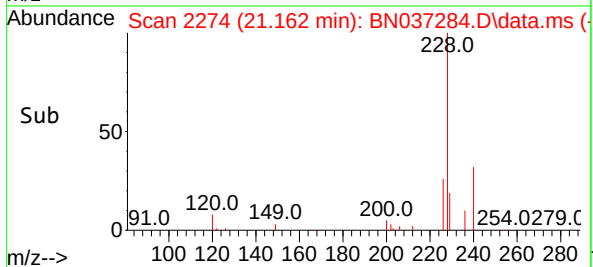
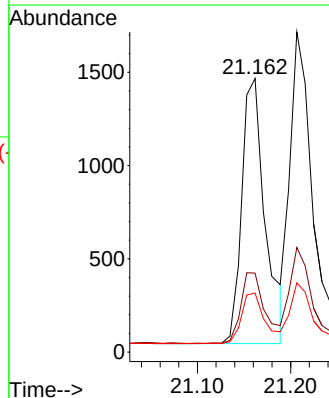
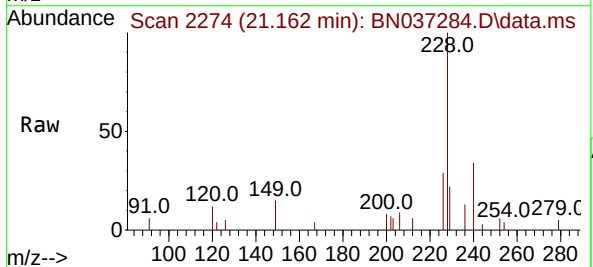
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

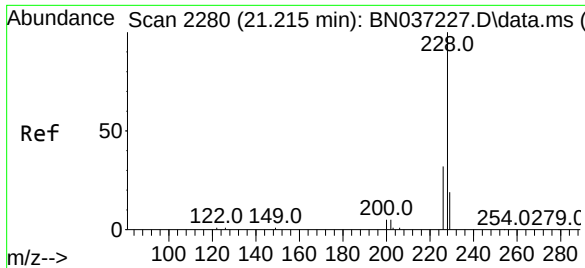
Tgt Ion:244 Resp: 1731
Ion Ratio Lower Upper
244 100
212 14.4 12.2 18.2
122 17.1 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:228 Resp: 2471
Ion Ratio Lower Upper
228 100
226 28.9 23.8 35.8
229 21.6 17.0 25.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

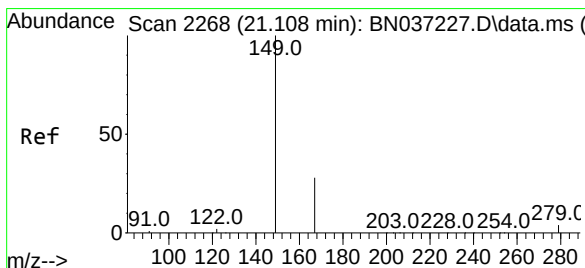
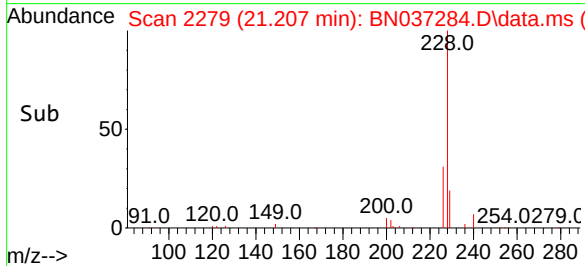
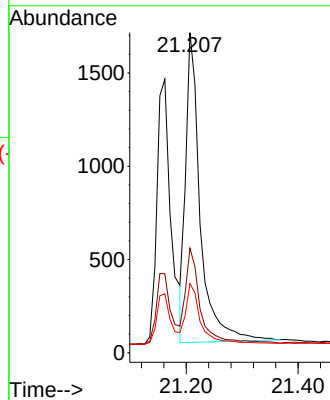
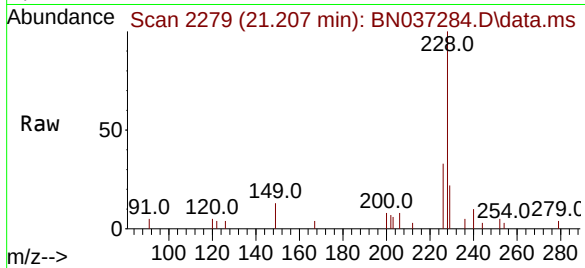
Tgt Ion:228 Resp: 3003

Ion Ratio Lower Upper

228 100

226 32.7 25.8 38.6

229 21.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.443 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

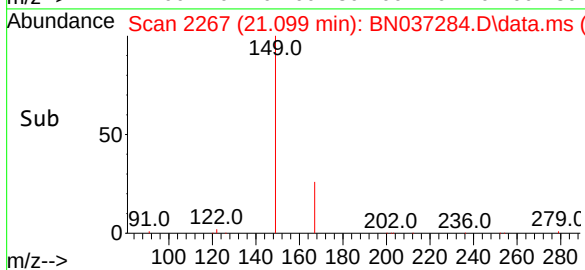
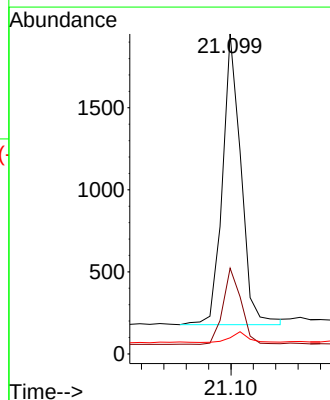
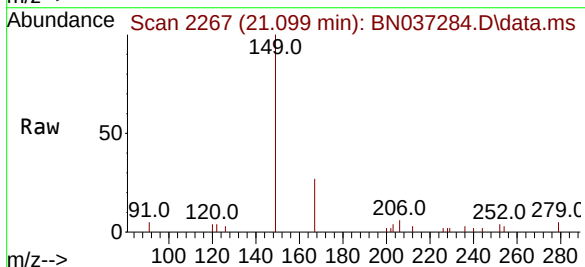
Tgt Ion:149 Resp: 2037

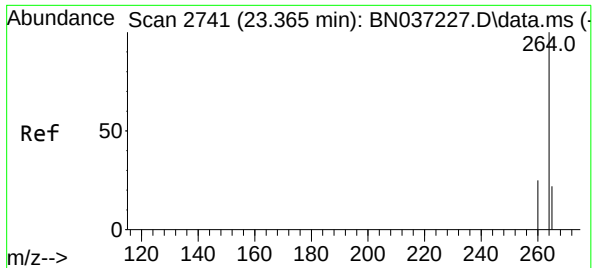
Ion Ratio Lower Upper

149 100

167 25.8 21.3 31.9

279 3.4 3.3 4.9

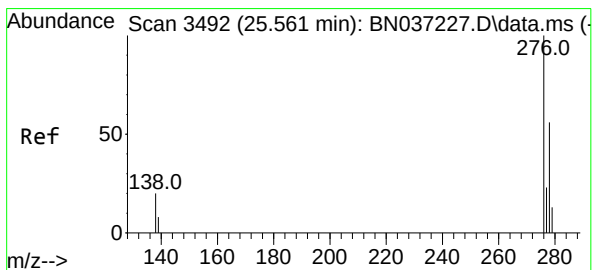
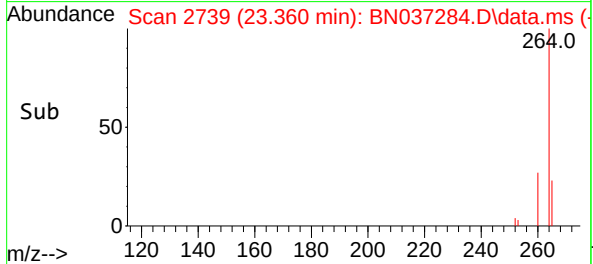
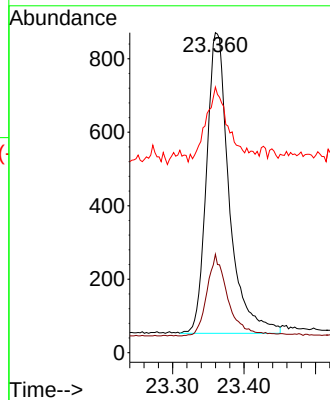
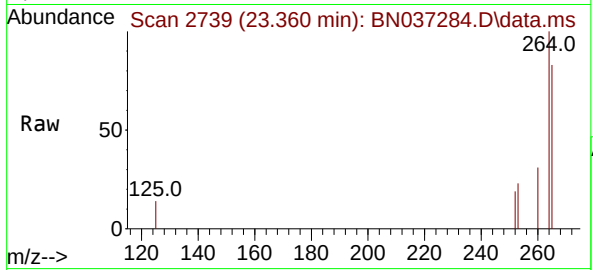




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

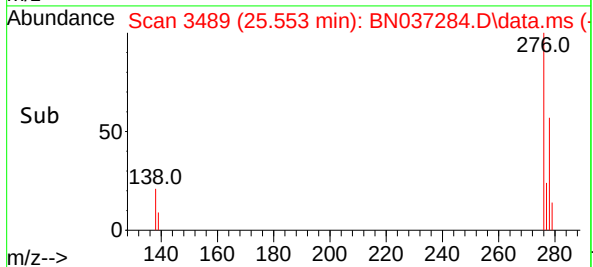
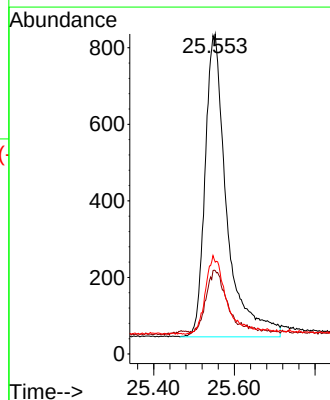
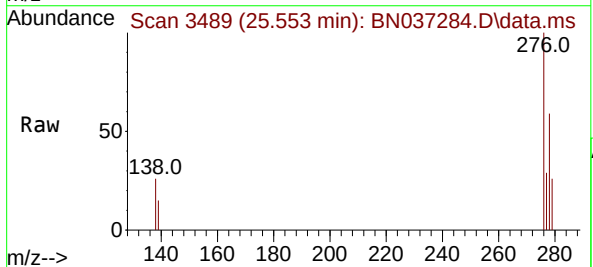
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

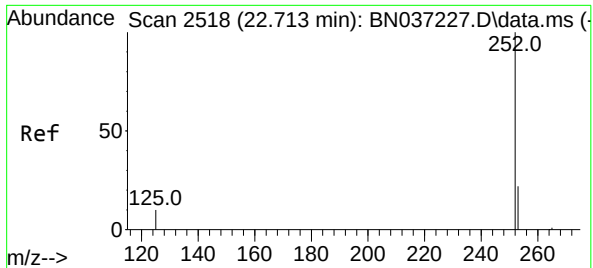
Tgt Ion:264 Resp: 1806
Ion Ratio Lower Upper
264 100
260 30.8 22.8 34.2
265 83.0 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.008 min
Lab File: BN037284.D
Acq: 16 Jun 2025 10:23

Tgt Ion:276 Resp: 2942
Ion Ratio Lower Upper
276 100
138 18.6 16.8 25.2
277 23.3 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.387 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

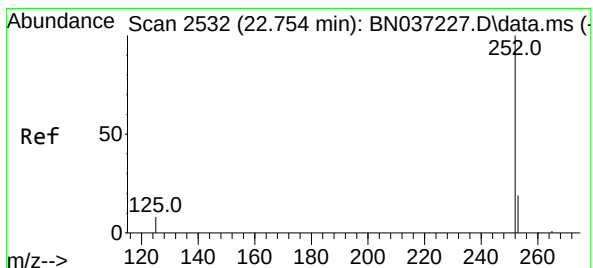
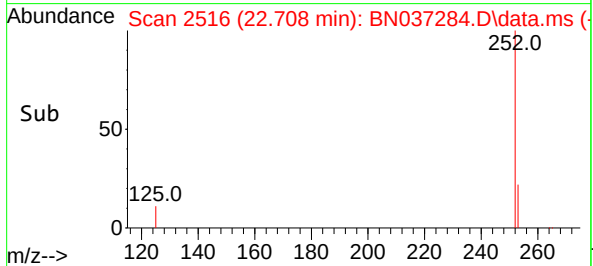
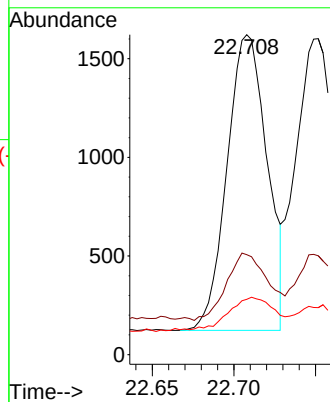
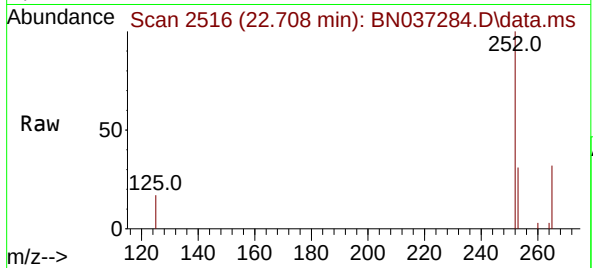
Tgt Ion:252 Resp: 2557

Ion Ratio Lower Upper

252 100

253 31.3 24.9 37.3

125 17.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

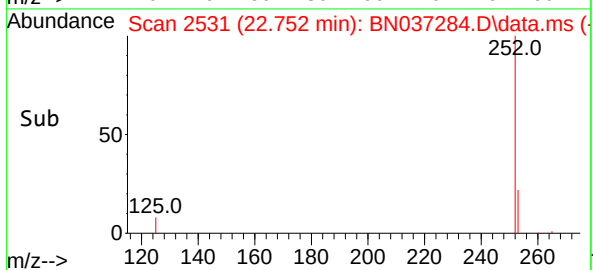
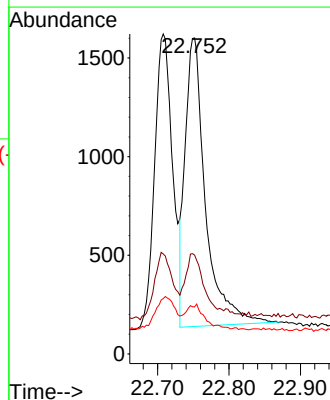
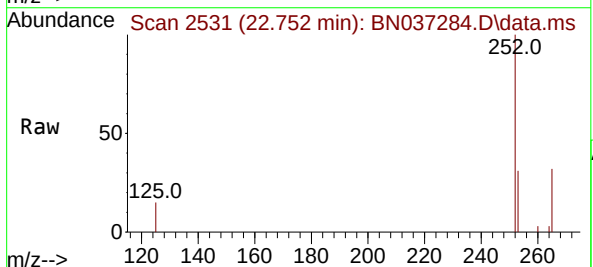
Tgt Ion:252 Resp: 2890

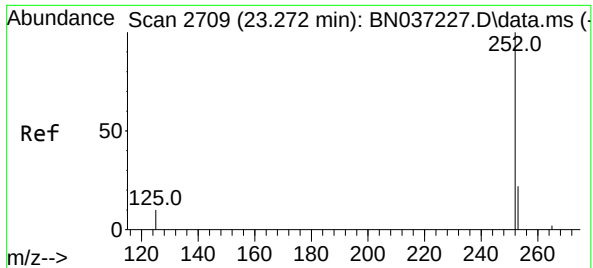
Ion Ratio Lower Upper

252 100

253 31.3 24.6 37.0

125 14.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.263 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

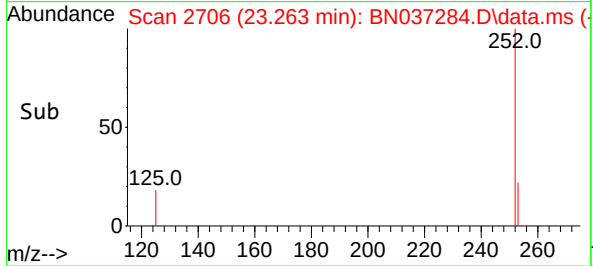
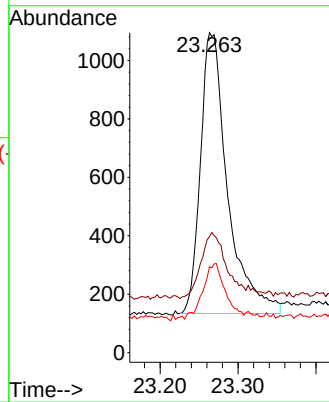
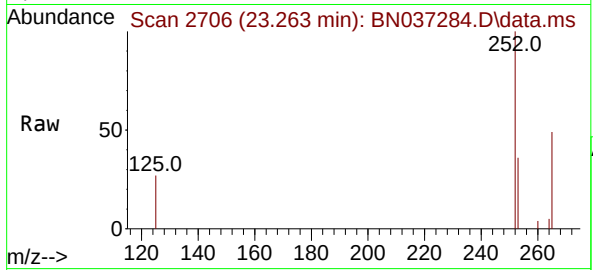
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	2325
Ion Ratio	Lower	Upper
252	100	
253	36.3	29.4 44.2
125	26.8	16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

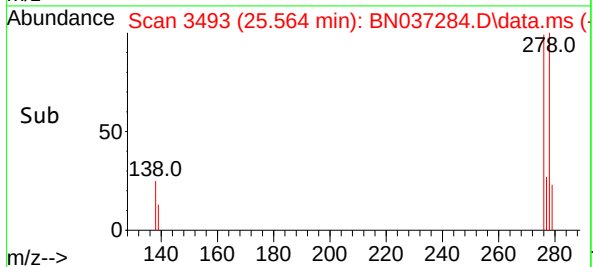
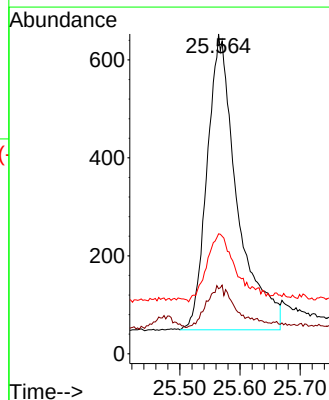
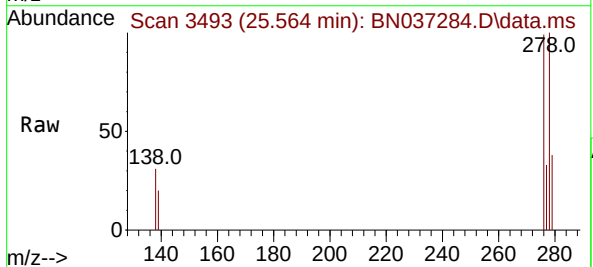
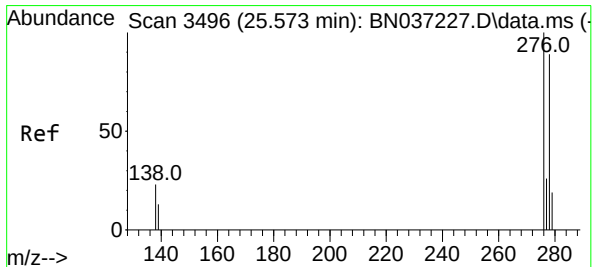
RT: 25.564 min Scan# 3493

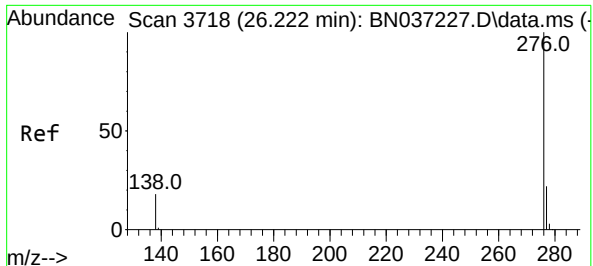
Delta R.T. -0.009 min

Lab File: BN037284.D

Acq: 16 Jun 2025 10:23

Tgt Ion:278	Resp:	2093
Ion Ratio	Lower	Upper
278	100	
139	20.4	17.8 26.6
279	37.5	31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.213 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037284.D

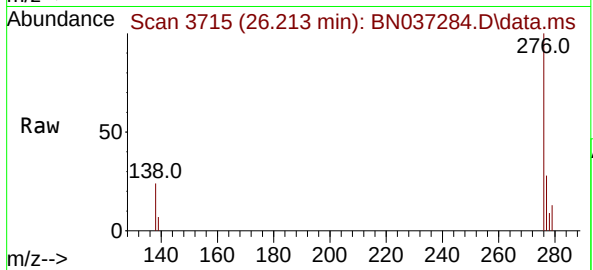
Acq: 16 Jun 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



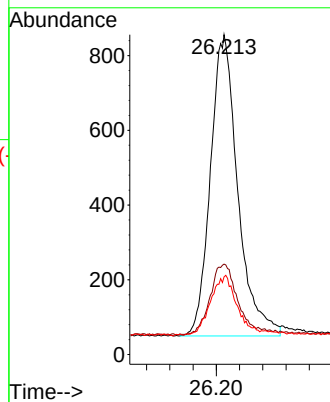
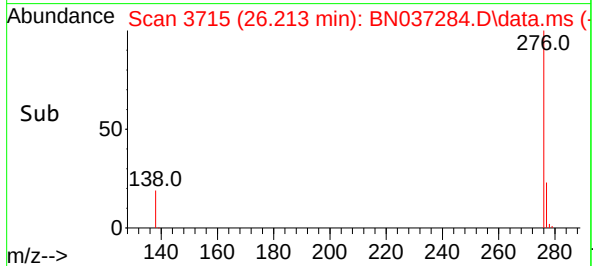
Tgt Ion:276 Resp: 2630

Ion Ratio Lower Upper

276 100

277 28.3 22.0 33.0

138 24.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037284.D
 Acq On : 16 Jun 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	82	0.00
2	1,4-Dioxane	0.549	0.530	3.5	83	0.00
3	n-Nitrosodimethylamine	1.250	1.315	-5.2	84	0.00
4 S	2-Fluorophenol	0.982	0.918	6.5	80	0.00
5 S	Phenol-d6	1.035	1.022	1.3	87	0.00
6	bis(2-Chloroethyl)ether	0.927	0.982	-5.9	93	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	81	-0.01
8 S	Nitrobenzene-d5	0.395	0.424	-7.3	89	0.00
9	Naphthalene	1.158	1.148	0.9	82	-0.01
10	Hexachlorobutadiene	0.282	0.287	-1.8	77	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.560	-4.3	81	0.00
12	2-Methylnaphthalene	0.704	0.702	0.3	81	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.166	0.178	-7.2	82	-0.01
15 S	2-Fluorobiphenyl	1.681	1.751	-4.2	81	0.00
16	Acenaphthylene	1.960	1.935	1.3	81	-0.01
17	Acenaphthene	1.265	1.232	2.6	78	0.00
18	Fluorene	1.625	1.567	3.6	77	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.087	5.4	104	0.00
21	4-Bromophenyl-phenylether	0.261	0.264	-1.1	85	0.00
22	Hexachlorobenzene	0.302	0.305	-1.0	77	0.00
23	Atrazine	0.232	0.220	5.2	78	-0.01
24	Pentachlorophenol	0.148	0.153	-3.4	97	0.00
25	Phenanthrene	1.269	1.217	4.1	81	-0.01
26	Anthracene	1.161	1.102	5.1	81	0.00
27 SURR	Fluoranthene-d10	1.046	1.053	-0.7	79	0.00
28	Fluoranthene	1.485	1.379	7.1	77	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30	Pyrene	1.881	1.930	-2.6	79	0.00
31 S	Terphenyl-d14	0.904	0.946	-4.6	80	0.00
32	Benzo(a)anthracene	1.351	1.350	0.1	88	0.00
33	Chrysene	1.683	1.641	2.5	78	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	1.113	-10.6	87	0.00
35 I	Perylene-d12	1.000	1.000	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.629	-1.0	91	0.00
37	Benzo(b)fluoranthene	1.463	1.416	3.2	86	0.00
38	Benzo(k)fluoranthene	1.689	1.600	5.3	83	0.00
39 C	Benzo(a)pyrene	1.316	1.287	2.2	88	0.00
40	Dibenzo(a,h)anthracene	1.227	1.159	5.5	93	0.00
41	Benzo(g,h,i)perylene	1.496	1.456	2.7	85	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037284.D
 Acq On : 16 Jun 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 11:17:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	82	0.00
2	1,4-Dioxane	0.400	0.387	3.3	83	0.00
3	n-Nitrosodimethylamine	0.400	0.421	-5.2	84	0.00
4 S	2-Fluorophenol	0.400	0.374	6.5	80	0.00
5 S	Phenol-d6	0.400	0.395	1.3	87	0.00
6	bis(2-Chloroethyl)ether	0.400	0.424	-6.0	93	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	81	-0.01
8 S	Nitrobenzene-d5	0.400	0.429	-7.2	89	0.00
9	Naphthalene	0.400	0.396	1.0	82	-0.01
10	Hexachlorobutadiene	0.400	0.408	-2.0	77	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.417	-4.2	81	0.00
12	2-Methylnaphthalene	0.400	0.398	0.5	81	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.400	0.429	-7.2	82	-0.01
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	81	0.00
16	Acenaphthylene	0.400	0.395	1.3	81	-0.01
17	Acenaphthene	0.400	0.390	2.5	78	0.00
18	Fluorene	0.400	0.386	3.5	77	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	79	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.449	-12.2	104	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	85	0.00
22	Hexachlorobenzene	0.400	0.404	-1.0	77	0.00
23	Atrazine	0.400	0.379	5.3	78	-0.01
24	Pentachlorophenol	0.400	0.415	-3.7	97	0.00
25	Phenanthrene	0.400	0.384	4.0	81	-0.01
26	Anthracene	0.400	0.380	5.0	81	0.00
27 SURR	Fluoranthene-d10	0.400	0.402	-0.5	79	0.00
28	Fluoranthene	0.400	0.371	7.3	77	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30	Pyrene	0.400	0.411	-2.7	79	0.00
31 S	Terphenyl-d14	0.400	0.418	-4.5	80	0.00
32	Benzo(a)anthracene	0.400	0.400	0.0	88	0.00
33	Chrysene	0.400	0.390	2.5	78	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.443	-10.7	87	0.00
35 I	Perylene-d12	0.400	0.400	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	91	0.00
37	Benzo(b)fluoranthene	0.400	0.387	3.3	86	0.00
38	Benzo(k)fluoranthene	0.400	0.379	5.3	83	0.00
39 C	Benzo(a)pyrene	0.400	0.391	2.3	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.378	5.5	93	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	85	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2299 SAS No.: Q2299 SDG No.: Q2299

Instrument ID: BNA_N Calibration Date/Time: 06/16/2025 13:53

Lab File ID: BN037289.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	50.0
Fluoranthene-d10	1.047	1.069		2.2	50.0
2-Fluorophenol	0.982	0.975		-0.7	50.0
Phenol-d6	1.035	1.052		1.6	50.0
Nitrobenzene-d5	0.395	0.419		6.1	50.0
2-Fluorobiphenyl	1.681	1.752		4.2	50.0
2,4,6-Tribromophenol	0.166	0.186		12.0	50.0
Terphenyl-d14	0.904	0.931		3.0	50.0
1,4-Dioxane	0.549	0.534		-2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037289.D
 Acq On : 16 Jun 2025 13:53
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 16 14:25:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

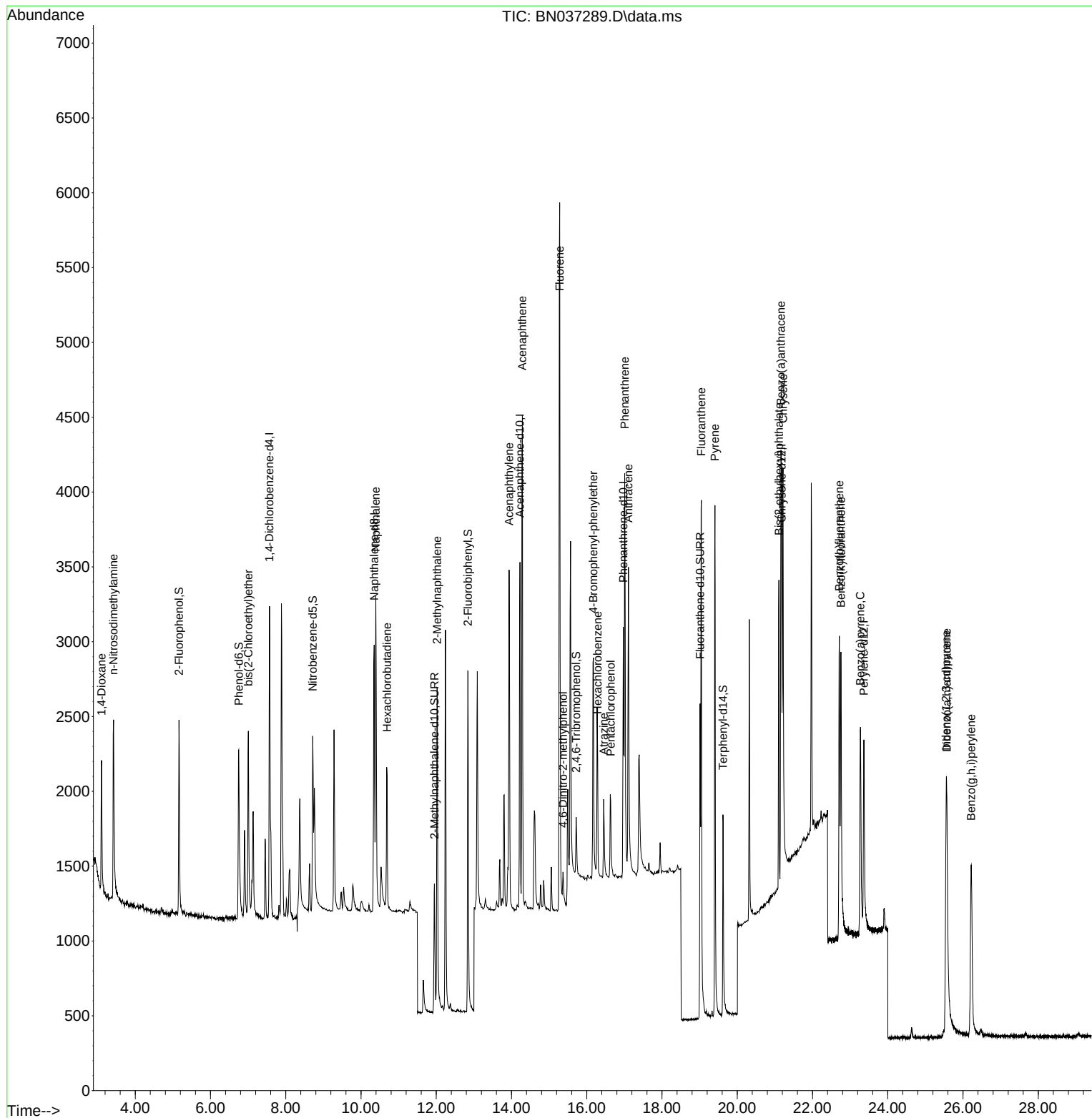
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1004	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2564	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1325	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2457	0.400	ng	0.00
29) Chrysene-d12	21.180	240	1850	0.400	ng	0.00
35) Perylene-d12	23.366	264	1831	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	979	0.397	ng	0.00
5) Phenol-d6	6.752	99	1056	0.406	ng	0.00
8) Nitrobenzene-d5	8.717	82	1074	0.424	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	1441	0.419	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	246	0.447	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	2322	0.417	ng	0.00
27) Fluoranthene-d10	19.012	212	2626	0.409	ng	0.00
31) Terphenyl-d14	19.621	244	1723	0.412	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	536	0.389	ng	89
3) n-Nitrosodimethylamine	3.422	42	1384	0.441	ng	# 95
6) bis(2-Chloroethyl)ether	7.004	93	1005	0.432	ng	92
9) Naphthalene	10.394	128	2880	0.388	ng	98
10) Hexachlorobutadiene	10.693	225	758	0.420	ng	# 100
12) 2-Methylnaphthalene	12.026	142	1802	0.399	ng	99
16) Acenaphthylene	13.935	152	2517	0.388	ng	99
17) Acenaphthene	14.288	154	1632	0.389	ng	99
18) Fluorene	15.282	166	2119	0.394	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	232	0.476	ng	93
21) 4-Bromophenyl-phenylether	16.177	248	641	0.400	ng	# 82
22) Hexachlorobenzene	16.289	284	750	0.404	ng	98
23) Atrazine	16.450	200	552	0.387	ng	93
24) Pentachlorophenol	16.636	266	364	0.400	ng	97
25) Phenanthrene	17.009	178	3022	0.388	ng	99
26) Anthracene	17.108	178	2722	0.382	ng	99
28) Fluoranthene	19.045	202	3429	0.376	ng	99
30) Pyrene	19.407	202	3525	0.405	ng	100
32) Benzo(a)anthracene	21.162	228	2410	0.386	ng	98
33) Chrysene	21.215	228	3068	0.394	ng	99
34) Bis(2-ethylhexyl)phtha...	21.108	149	2027	0.436	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	2713	0.367	ng	97
37) Benzo(b)fluoranthene	22.711	252	2629	0.393	ng	99
38) Benzo(k)fluoranthene	22.755	252	2896	0.375	ng	99
39) Benzo(a)pyrene	23.269	252	2331	0.387	ng	# 94
40) Dibenzo(a,h)anthracene	25.570	278	2205	0.393	ng	98
41) Benzo(g,h,i)perylene	26.216	276	2595	0.379	ng	96

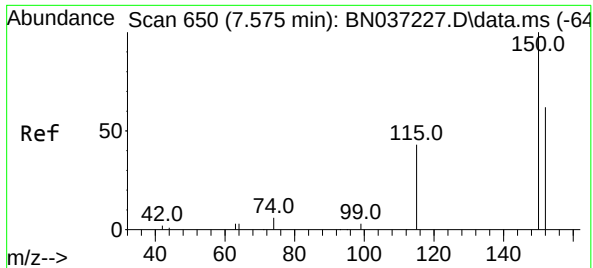
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037289.D
Acq On : 16 Jun 2025 13:53
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

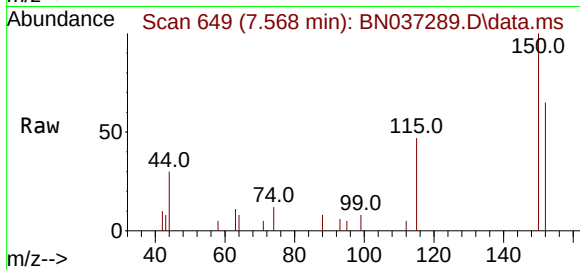
Quant Time: Jun 16 14:25:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



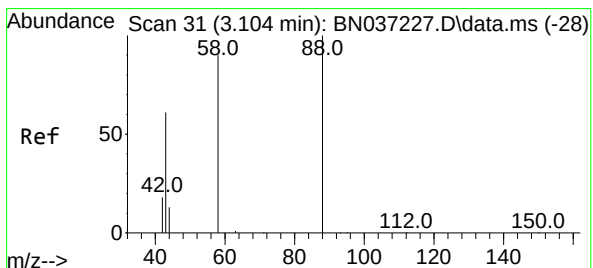
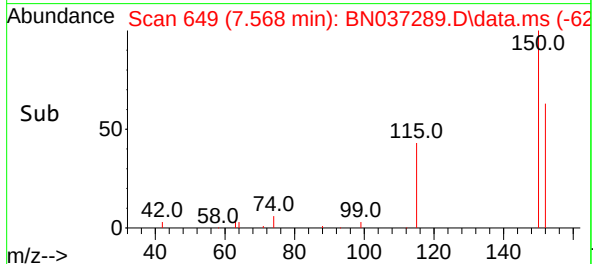
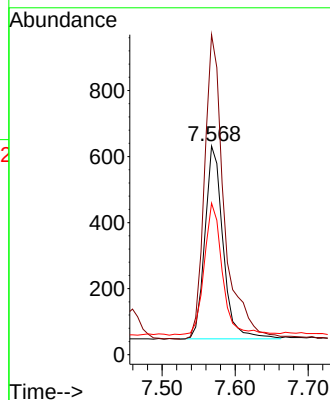


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

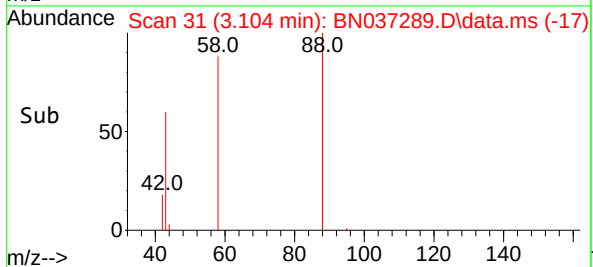
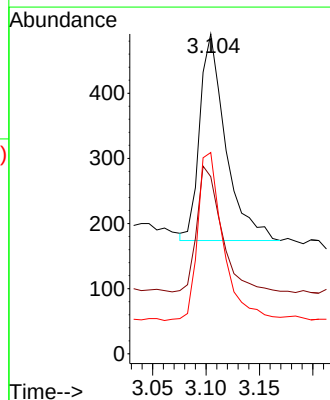
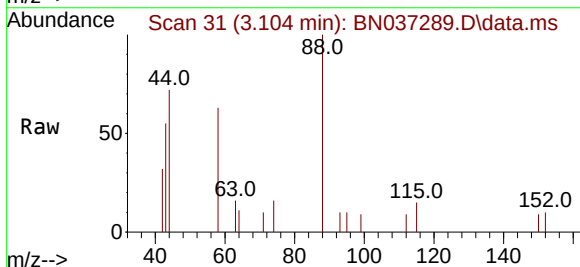


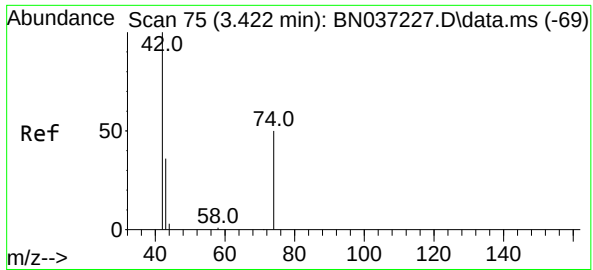
Tgt Ion: 152 Resp: 1004
Ion Ratio Lower Upper
152 100
150 153.3 125.2 187.8
115 72.6 58.4 87.6



#2
1,4-Dioxane
Concen: 0.389 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion: 88 Resp: 536
Ion Ratio Lower Upper
88 100
43 58.2 52.6 79.0
58 81.0 73.5 110.3

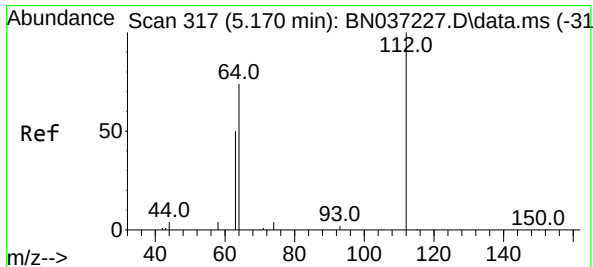
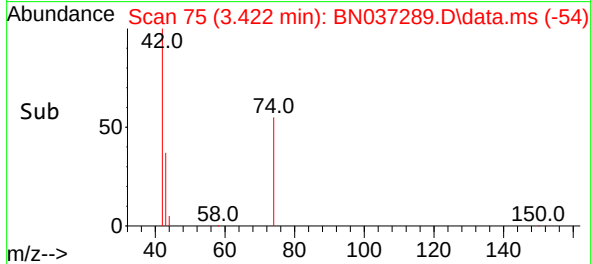
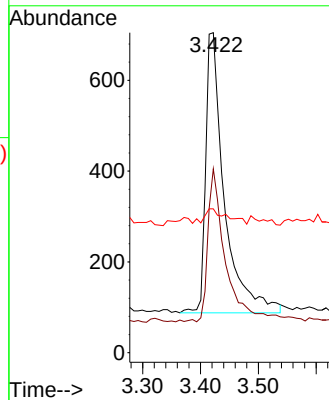
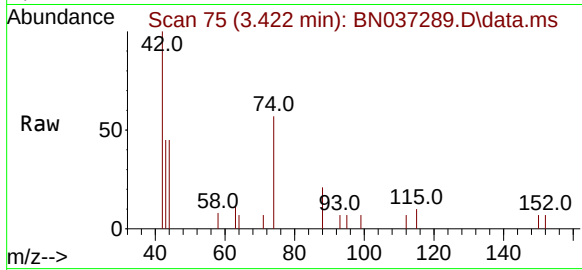




#3
n-Nitrosodimethylamine
Concen: 0.441 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

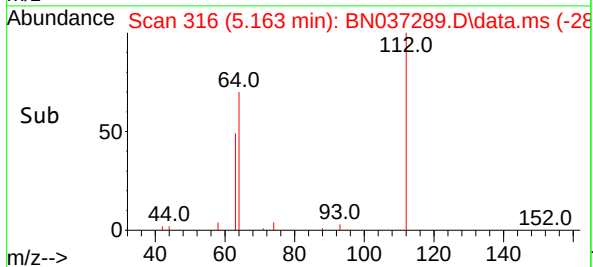
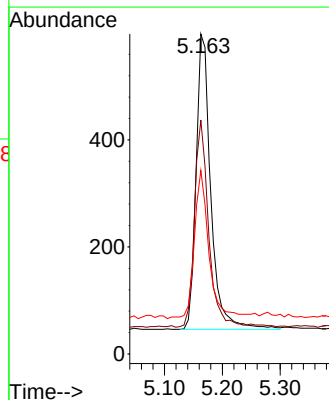
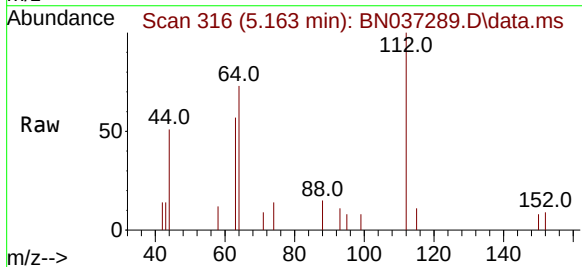
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

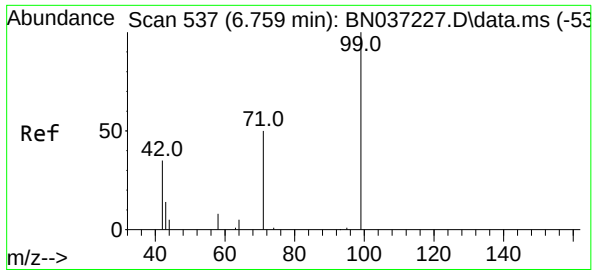
Tgt Ion: 42 Resp: 1384
Ion Ratio Lower Upper
42 100
74 51.8 44.6 66.8
44 6.6 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion: 112 Resp: 979
Ion Ratio Lower Upper
112 100
64 68.3 57.2 85.8
63 49.4 39.8 59.6

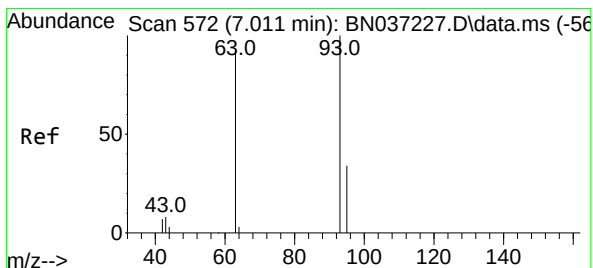
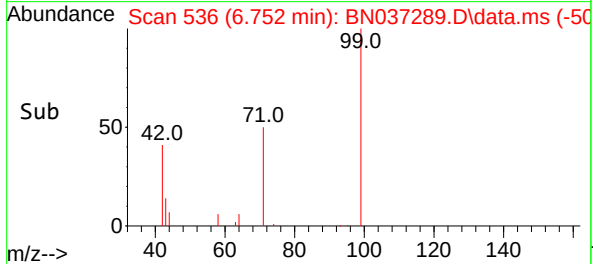
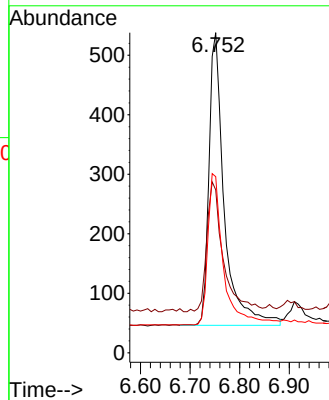
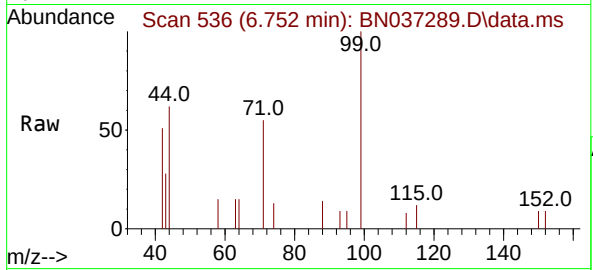




#5
Phenol-d6
Concen: 0.406 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

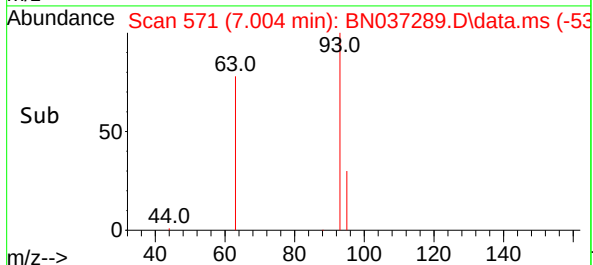
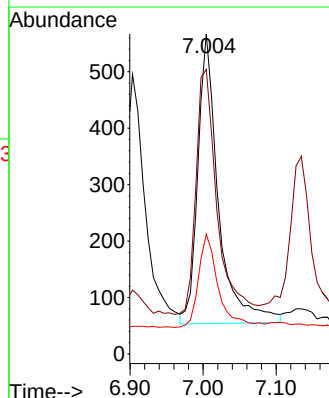
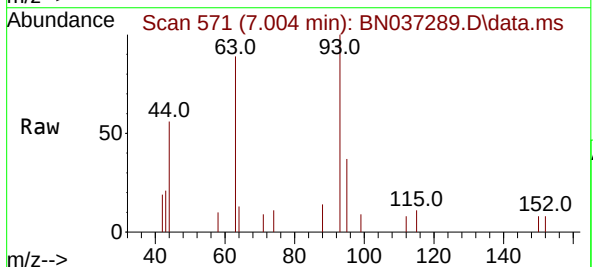
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

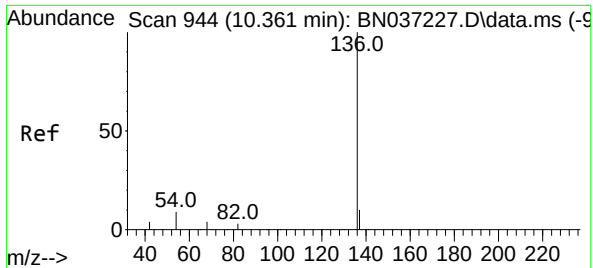
Tgt Ion	Ratio	Lower	Upper
99	100		
42	47.7	36.2	54.4
71	54.3	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.432 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.2	75.2	112.8
95	31.0	28.3	42.5

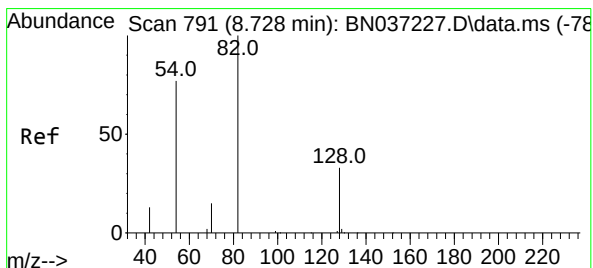
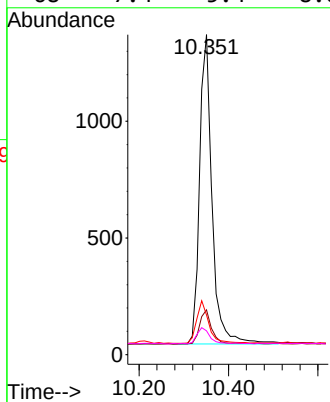
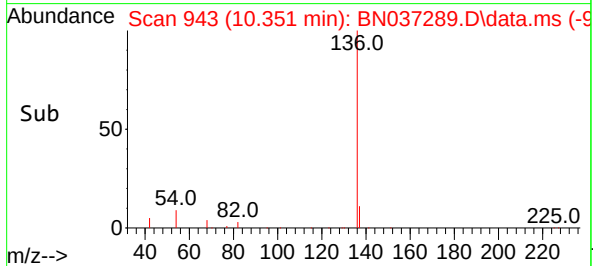
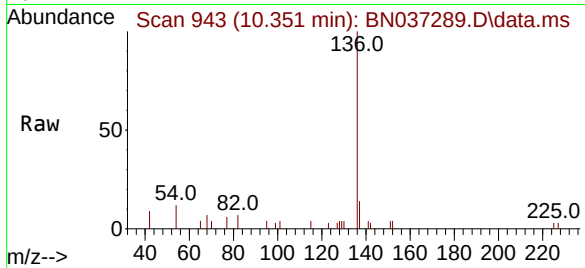




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

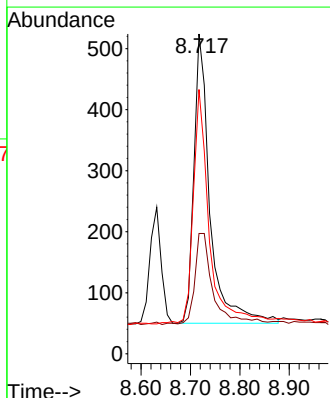
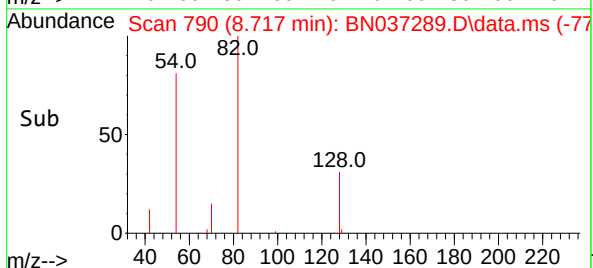
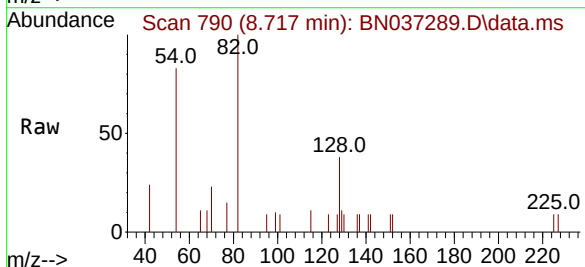
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

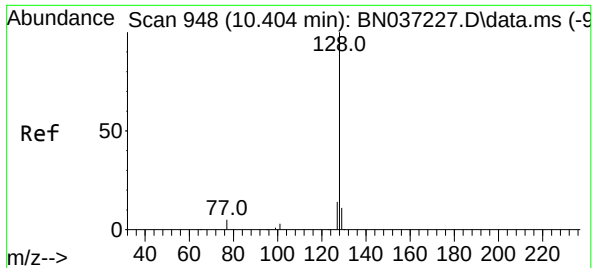
Tgt Ion:	136	Resp:	2564
Ion	Ratio	Lower	Upper
136	100		
137	14.0	10.6	15.8
54	12.4	9.2	13.8
68	7.4	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.424 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:	82	Resp:	1074
Ion	Ratio	Lower	Upper
82	100		
128	37.6	31.2	46.8
54	82.6	63.3	94.9

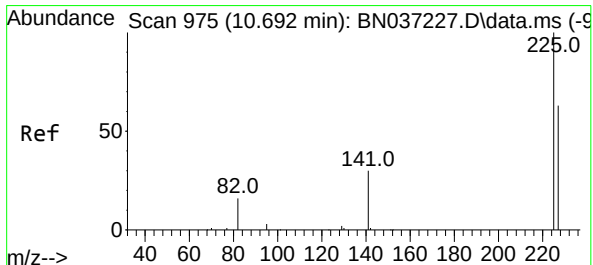
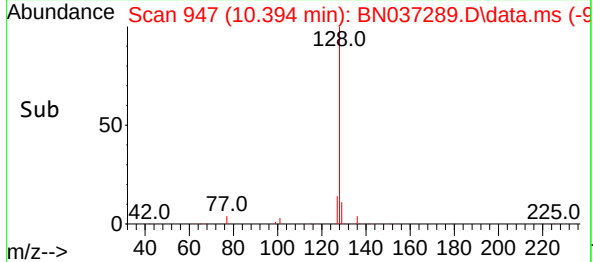
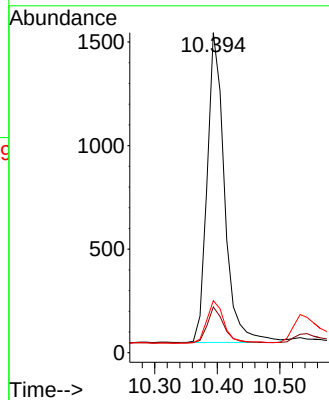
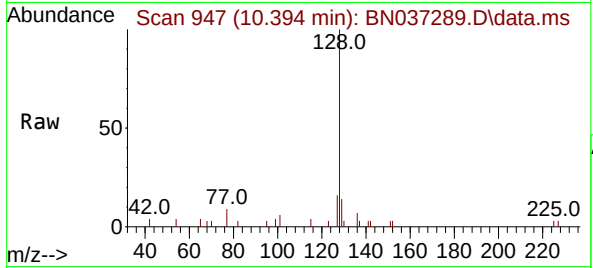




#9
Naphthalene
Concen: 0.388 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

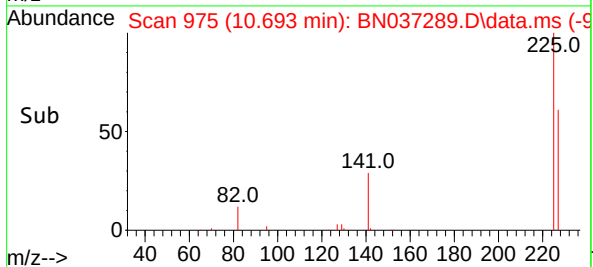
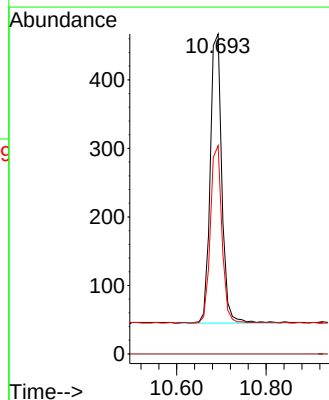
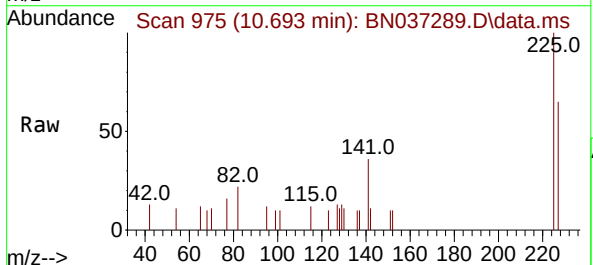
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

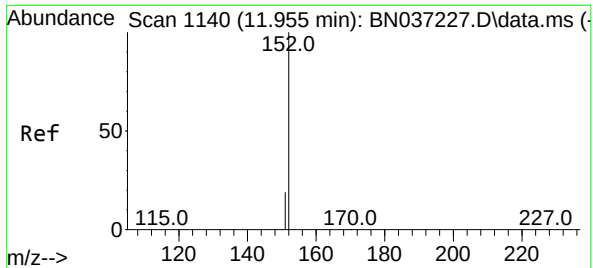
Tgt Ion:128 Resp: 2880
Ion Ratio Lower Upper
128 100
129 14.3 10.7 16.1
127 16.2 12.6 19.0



#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:225 Resp: 758
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.5 49.2 73.8

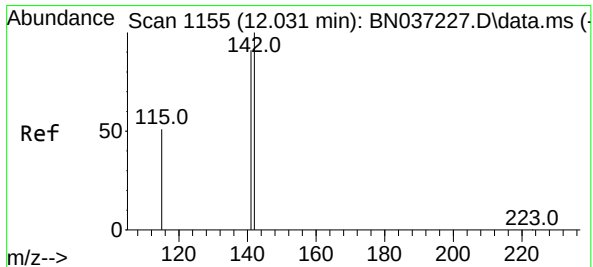
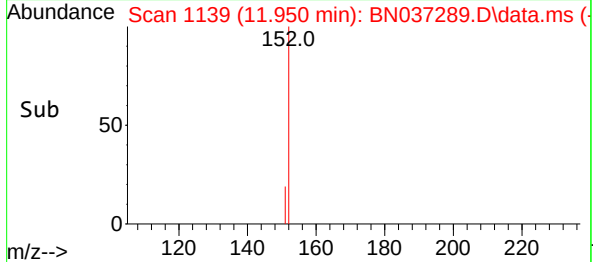
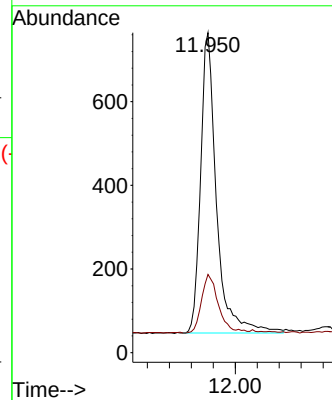
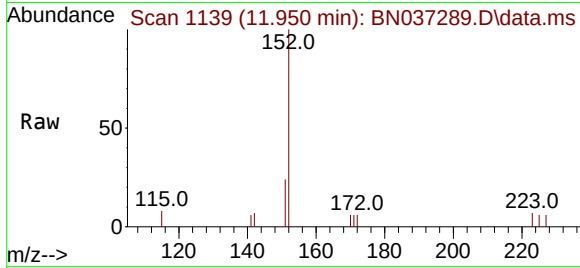




#11
2-Methylnaphthalene-d10
Concen: 0.419 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

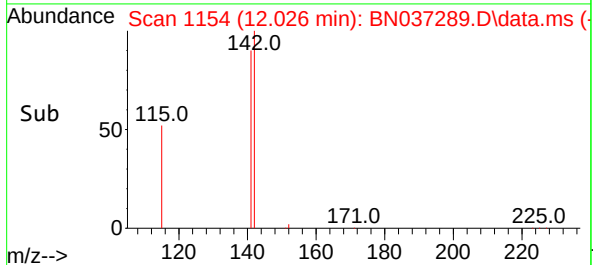
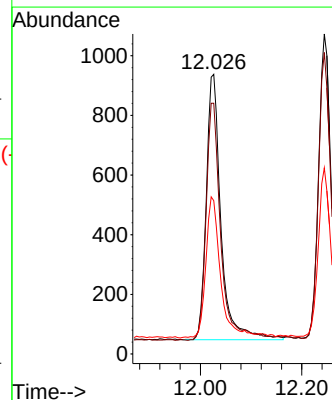
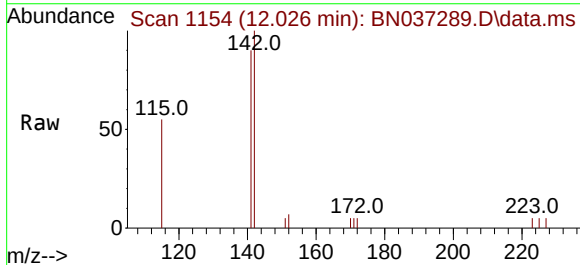
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

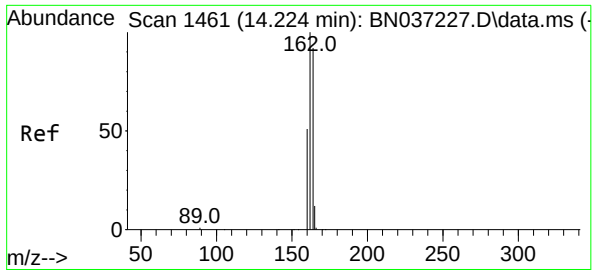
Tgt Ion:152 Resp: 1441
Ion Ratio Lower Upper
152 100
151 20.7 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.399 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:142 Resp: 1802
Ion Ratio Lower Upper
142 100
141 89.7 73.0 109.6
115 54.8 43.3 64.9

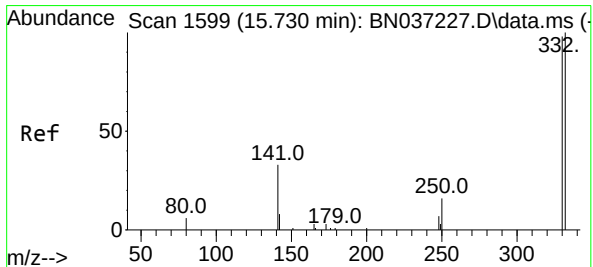
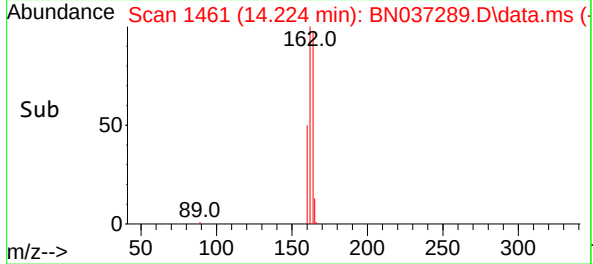
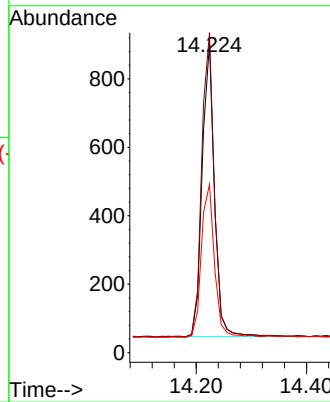
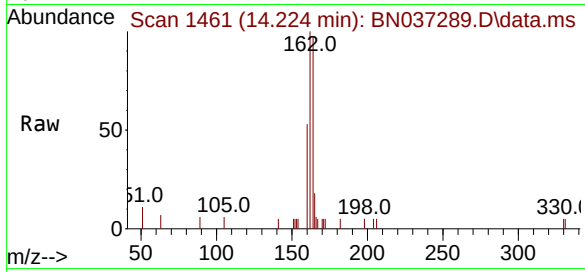




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

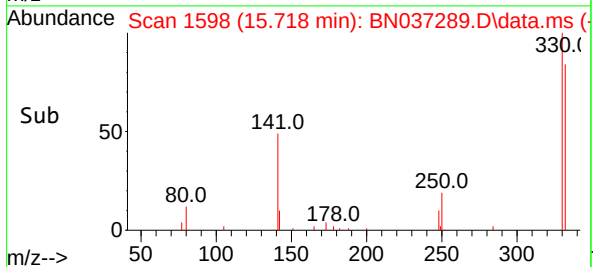
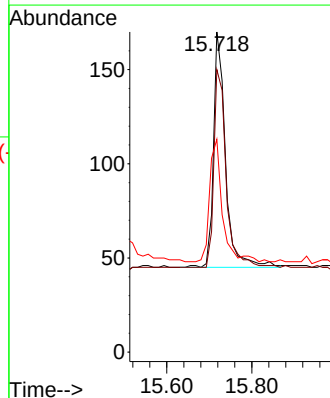
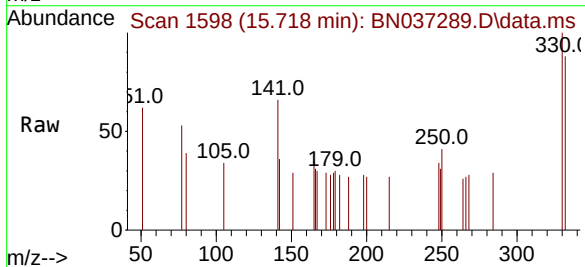
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

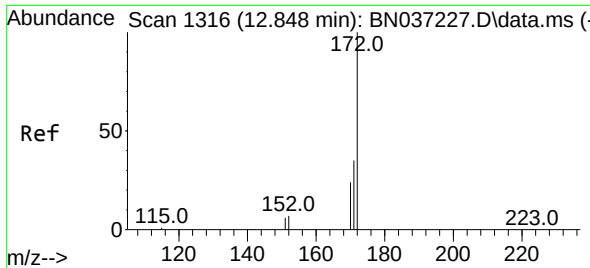
Tgt Ion:164 Resp: 1325
Ion Ratio Lower Upper
164 100
162 103.4 86.7 130.1
160 54.4 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.447 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:330 Resp: 246
Ion Ratio Lower Upper
330 100
332 85.8 74.9 112.3
141 55.3 45.1 67.7

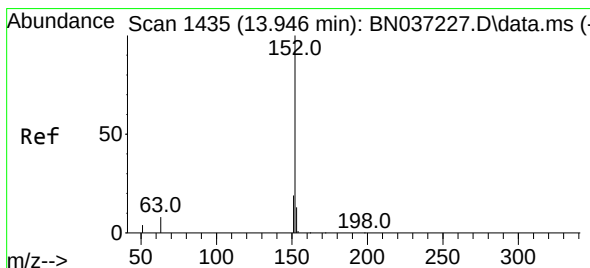
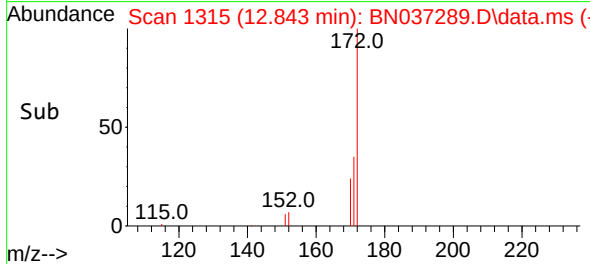
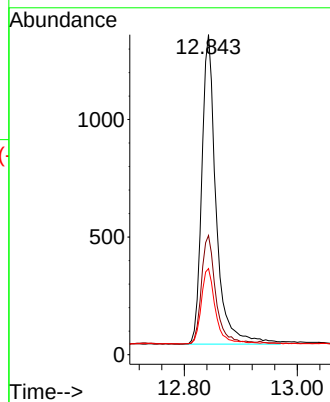
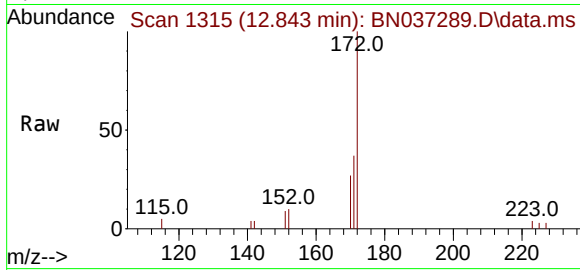




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

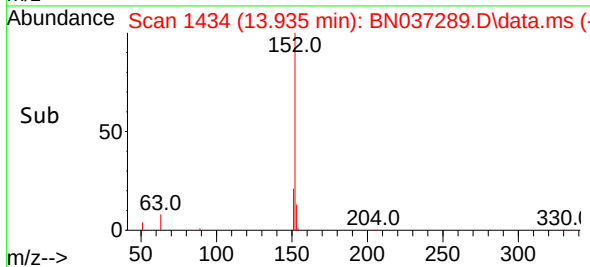
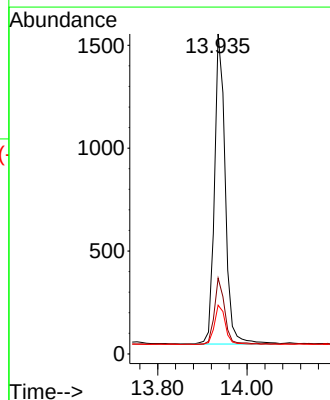
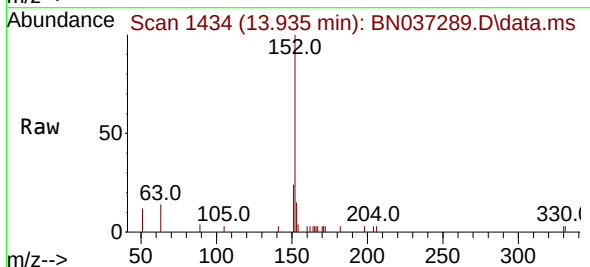
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

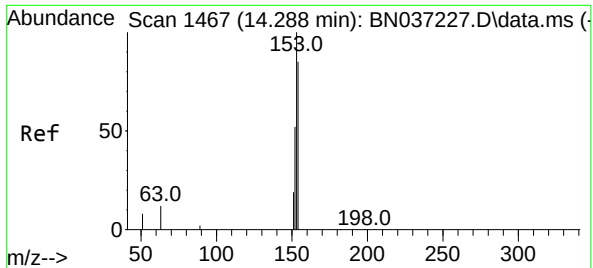
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.8	44.8
170	26.9	21.1	31.7



#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.7	23.5
153	13.2	10.7	16.1

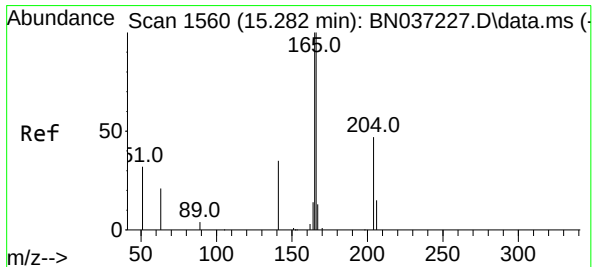
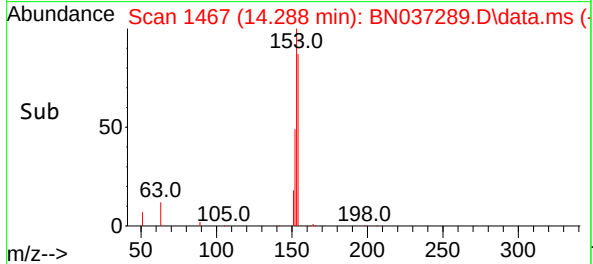
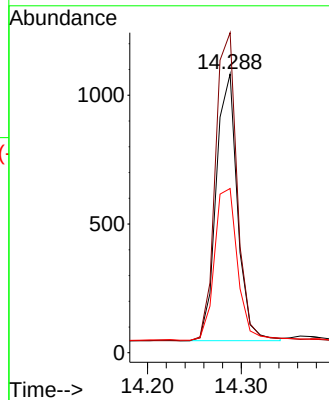
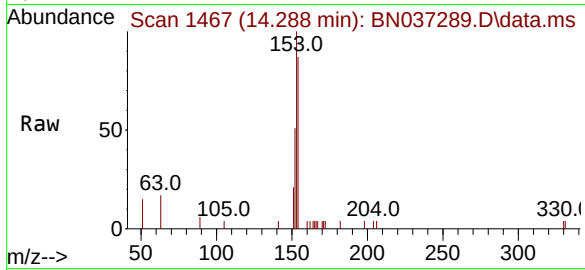




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

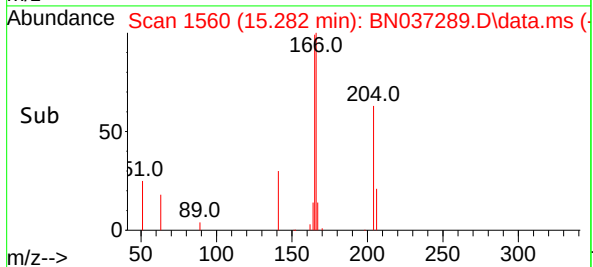
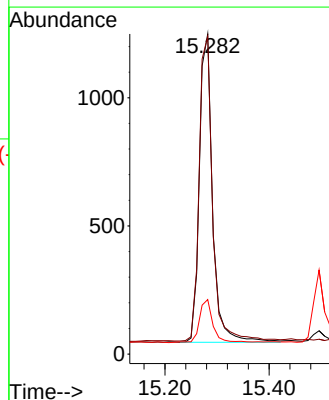
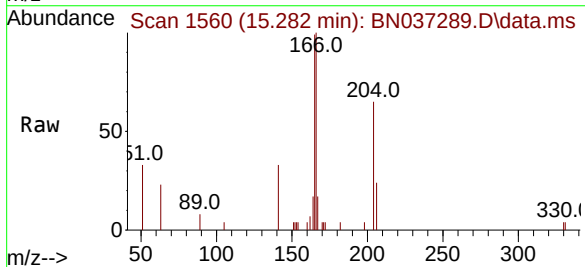
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

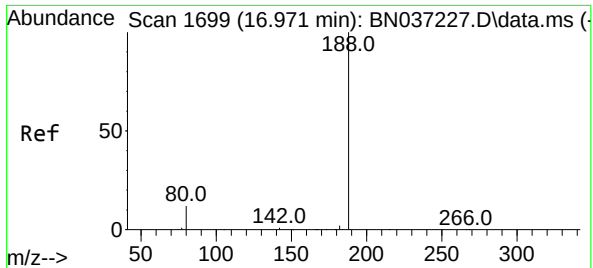
Tgt Ion:154 Resp: 1632
Ion Ratio Lower Upper
154 100
153 119.7 94.6 141.8
152 62.4 49.6 74.4



#18
Fluorene
Concen: 0.394 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:166 Resp: 2119
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.6
167 14.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

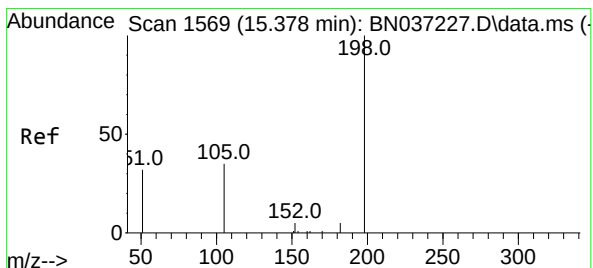
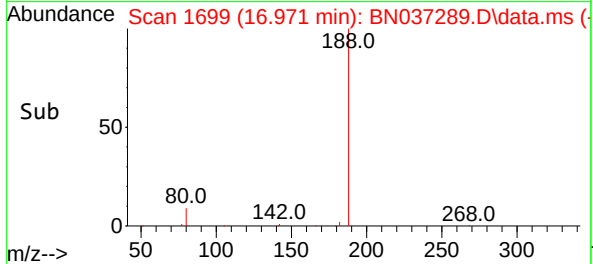
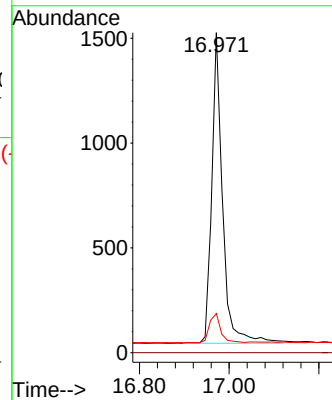
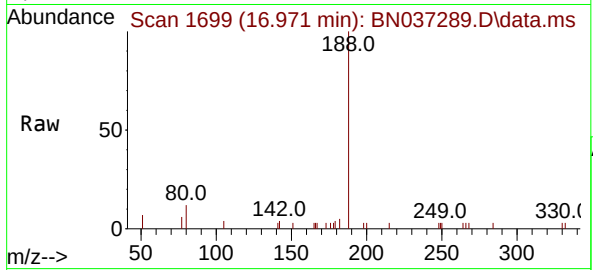
Tgt Ion:188 Resp: 2457

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.476 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

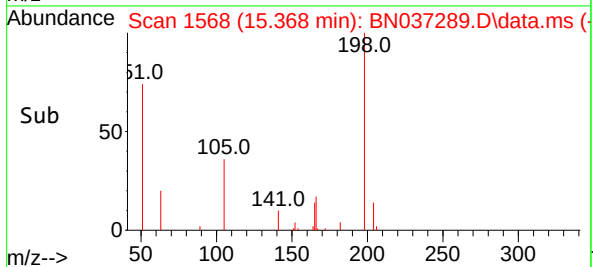
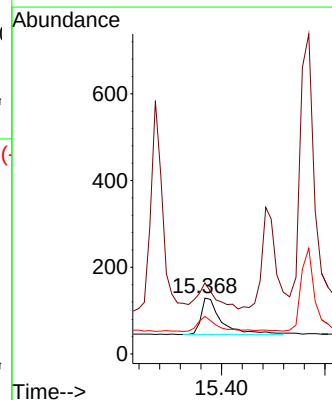
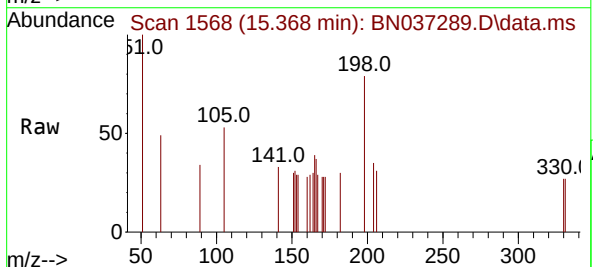
Tgt Ion:198 Resp: 232

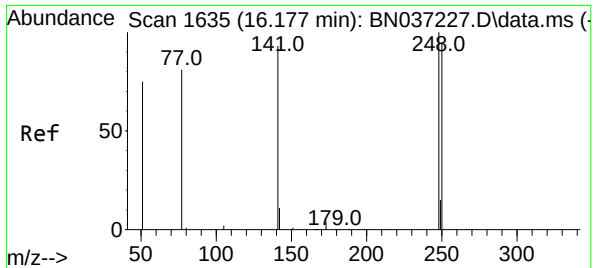
Ion Ratio Lower Upper

198 100

51 127.1 111.2 166.8

105 67.4 54.0 81.0

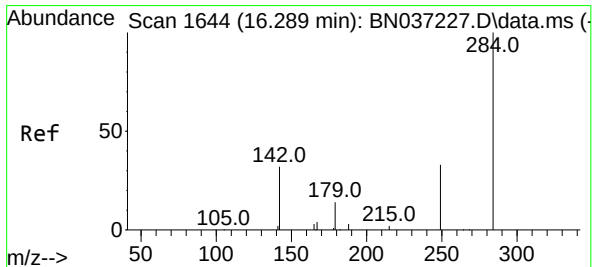
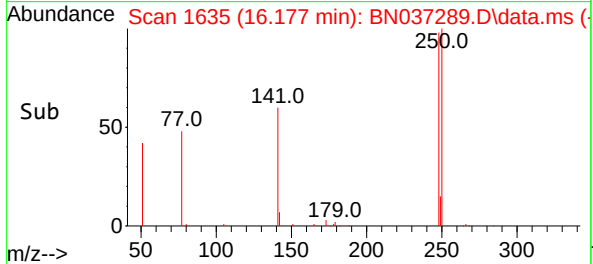
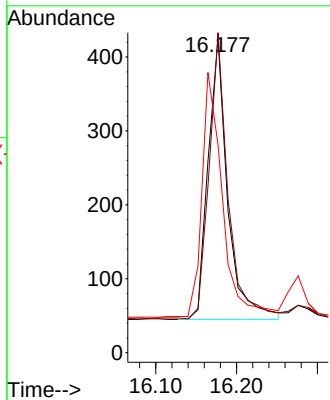
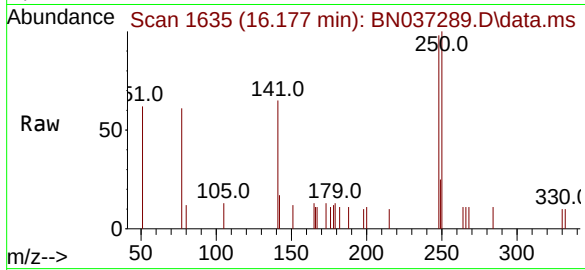




#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

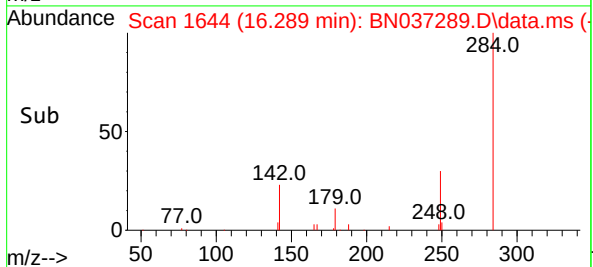
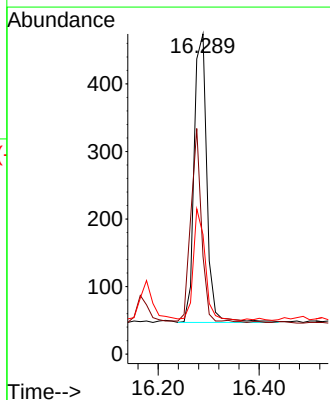
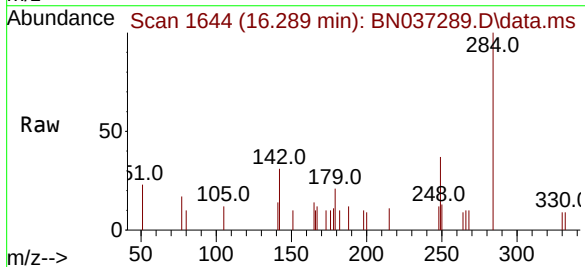
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

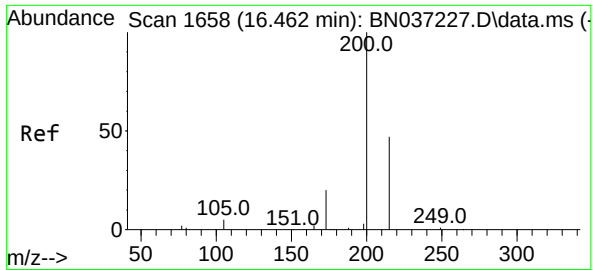
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	76.8	115.2
141	66.0	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	57.5	43.8	65.6
249	35.6	28.4	42.6

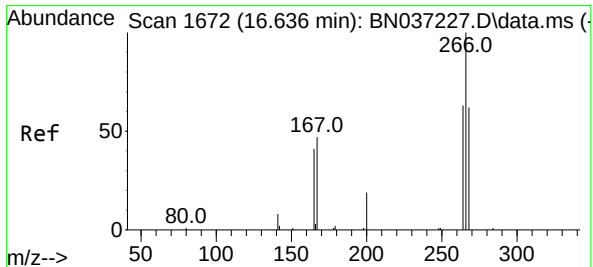
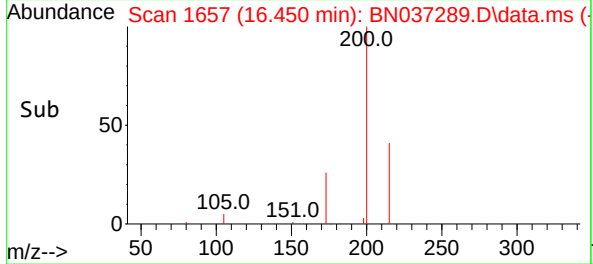
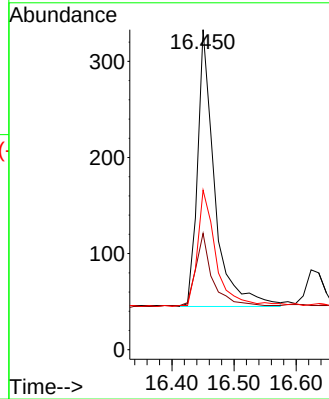
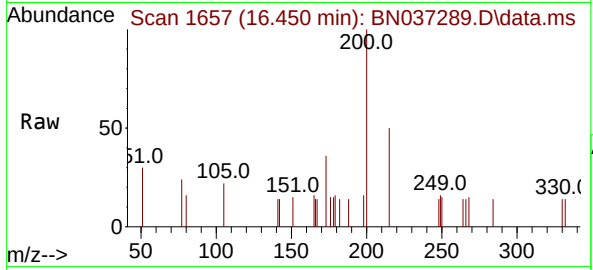




#23
Atrazine
Concen: 0.387 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

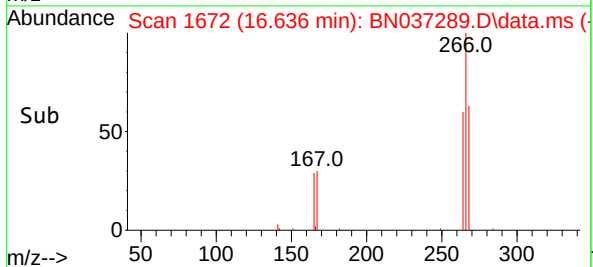
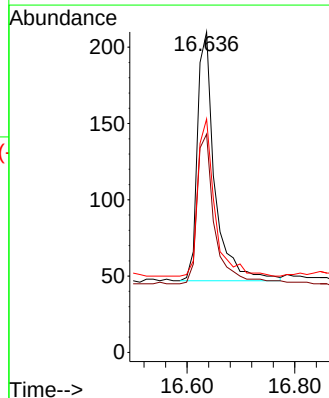
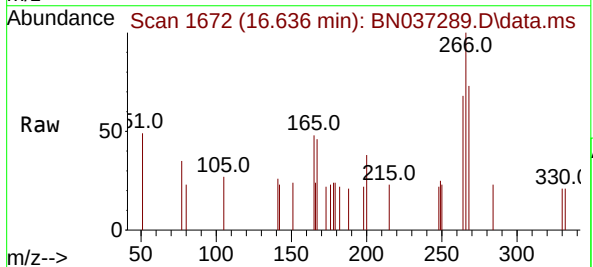
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

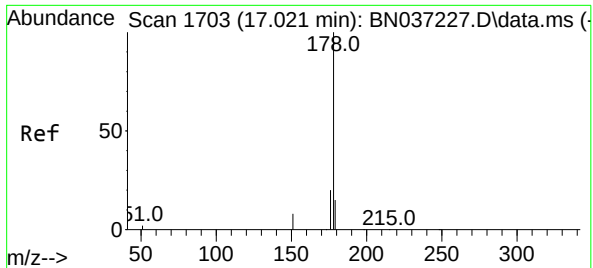
Tgt Ion:200 Resp: 552
Ion Ratio Lower Upper
200 100
173 36.3 25.1 37.7
215 49.8 43.7 65.5



#24
Pentachlorophenol
Concen: 0.400 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:266 Resp: 364
Ion Ratio Lower Upper
266 100
264 61.3 49.2 73.8
268 62.9 53.4 80.2

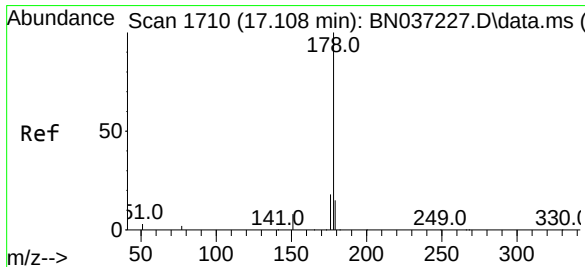
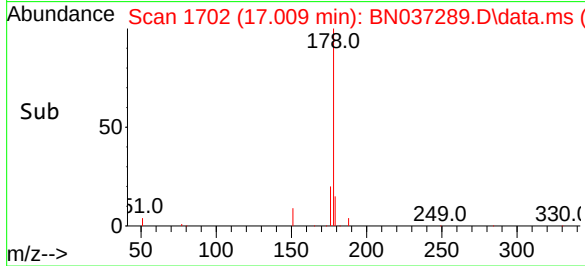
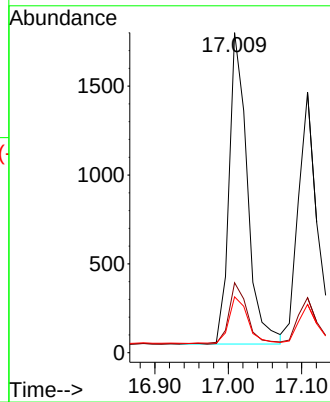
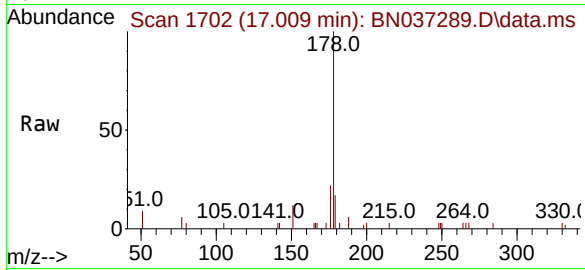




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

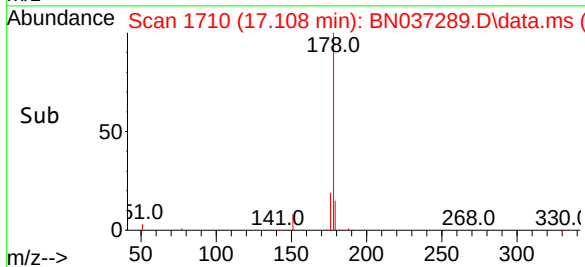
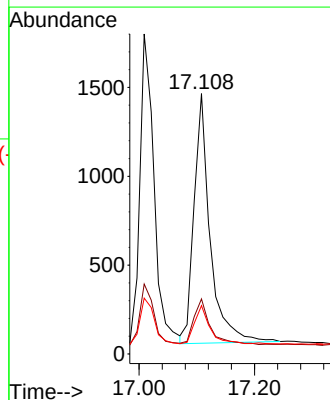
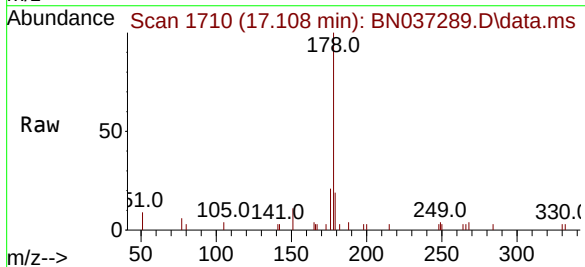
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

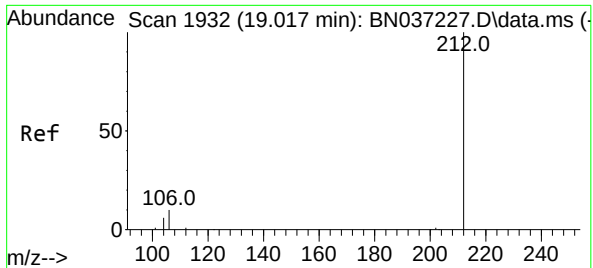
Tgt Ion:178 Resp: 3022
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.382 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:178 Resp: 2722
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 14.6 12.4 18.6

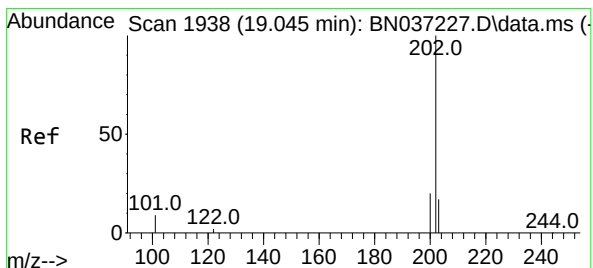
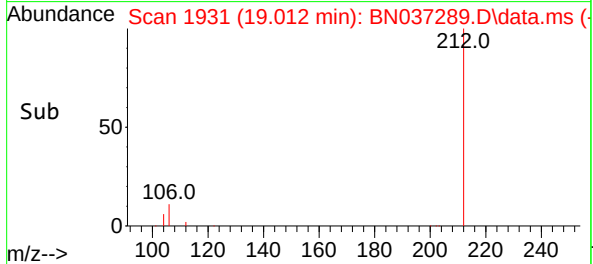
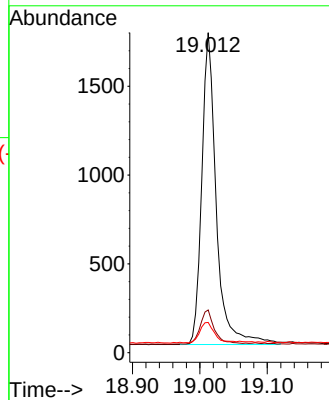
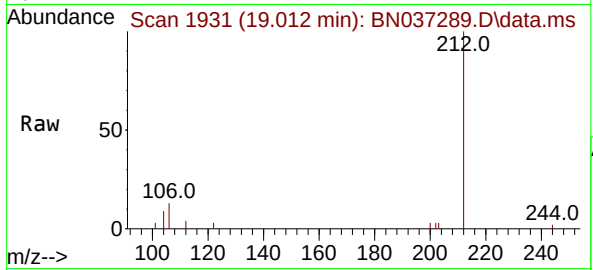




#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

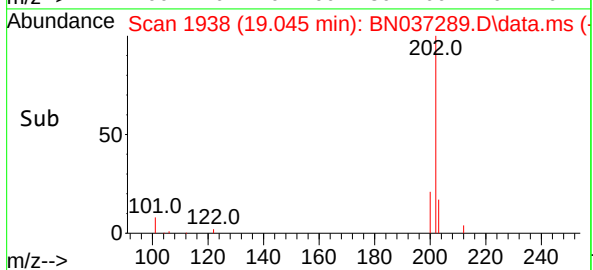
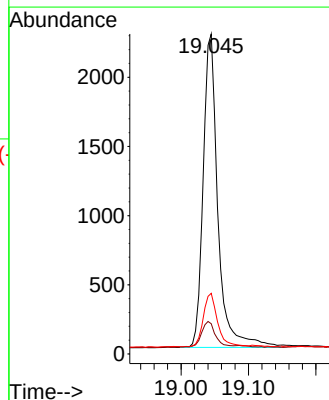
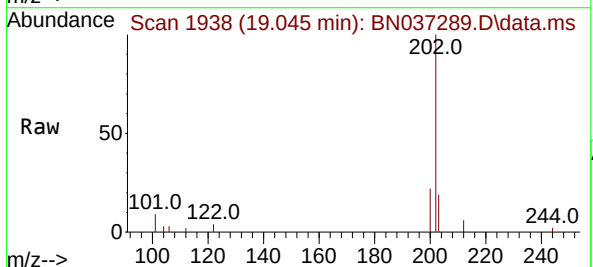
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

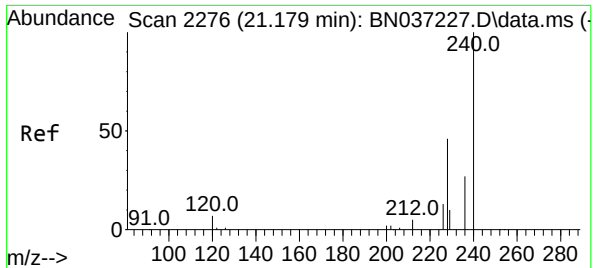
Tgt Ion:212 Resp: 2626
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 6.7 5.7 8.5



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:202 Resp: 3429
Ion Ratio Lower Upper
202 100
101 8.0 7.1 10.7
203 16.6 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

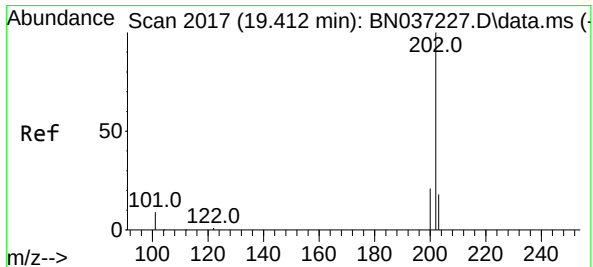
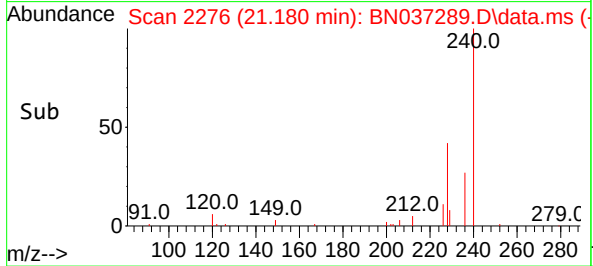
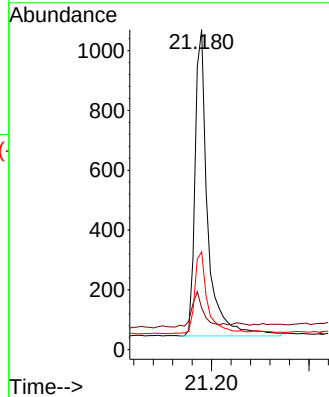
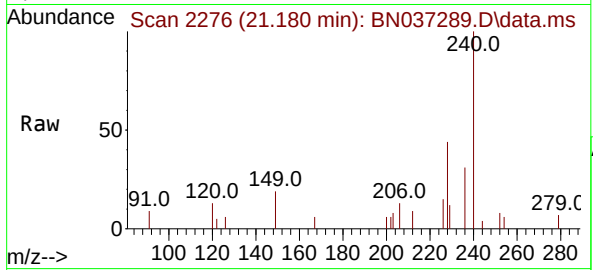
Tgt Ion:240 Resp: 1850

Ion Ratio Lower Upper

240 100

120 13.1 11.3 16.9

236 30.6 24.4 36.6



#30

Pyrene

Concen: 0.405 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

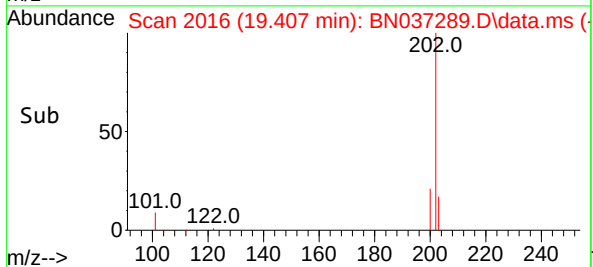
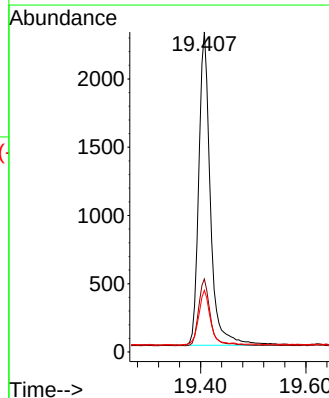
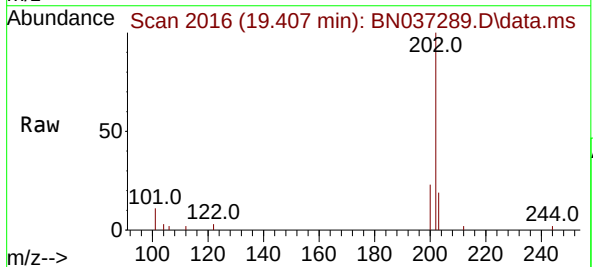
Tgt Ion:202 Resp: 3525

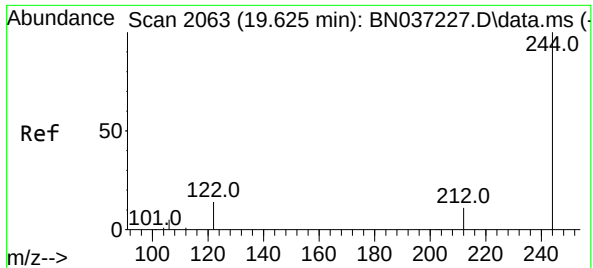
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

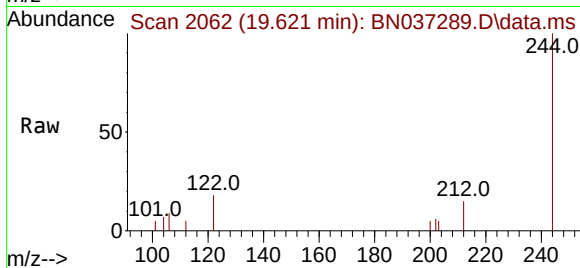
203 17.8 14.3 21.5



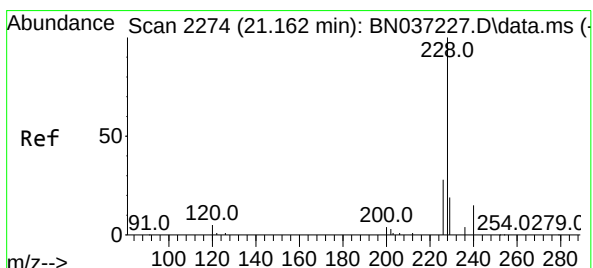
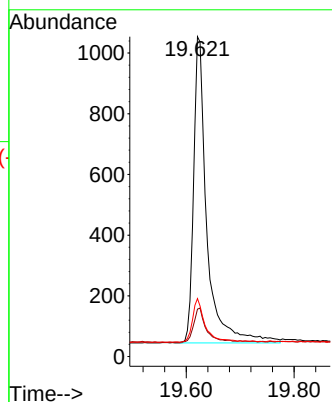


#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

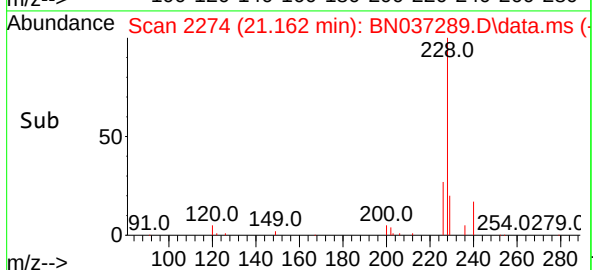
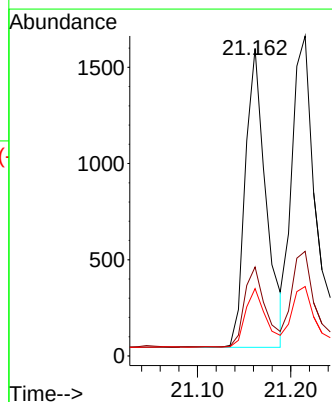
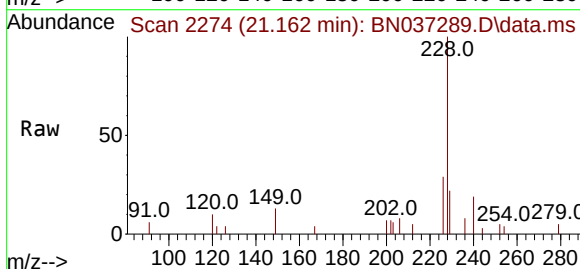


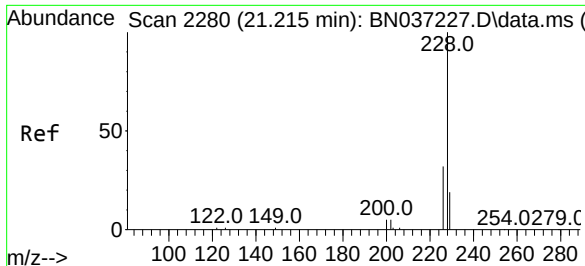
Tgt Ion:244 Resp: 1723
Ion Ratio Lower Upper
244 100
212 14.8 12.2 18.2
122 18.1 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:228 Resp: 2410
Ion Ratio Lower Upper
228 100
226 28.9 23.8 35.8
229 21.9 17.0 25.4





#33

Chrysene

Concen: 0.394 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

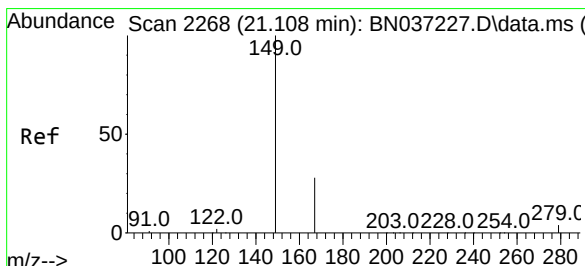
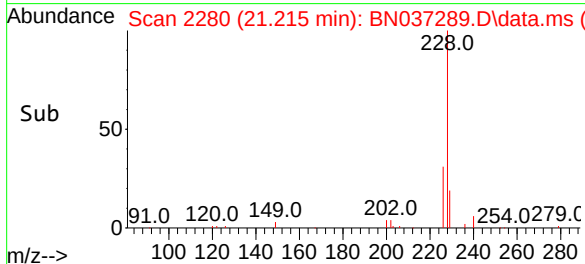
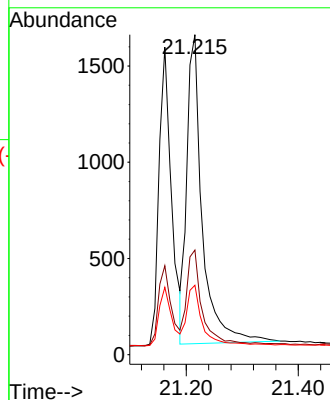
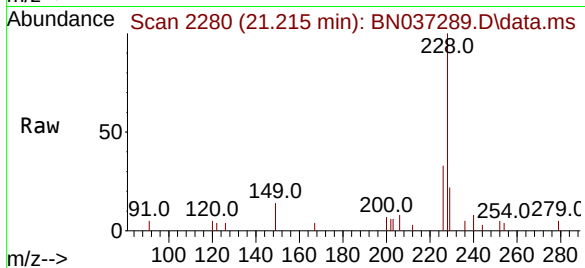
Tgt Ion:228 Resp: 3068

Ion Ratio Lower Upper

228 100

226 32.7 25.8 38.6

229 21.7 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.436 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

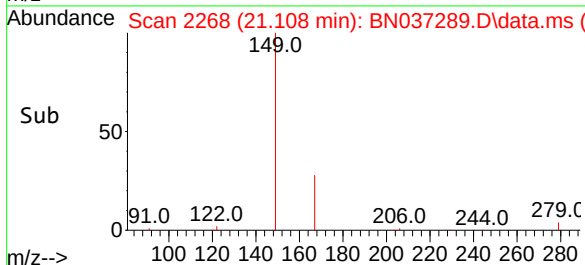
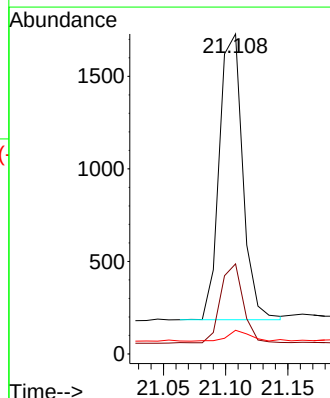
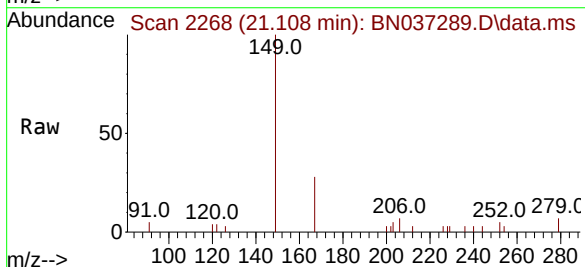
Tgt Ion:149 Resp: 2027

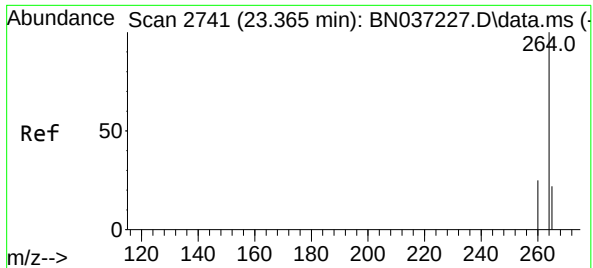
Ion Ratio Lower Upper

149 100

167 26.8 21.3 31.9

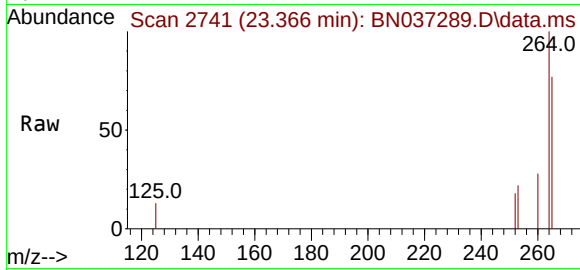
279 4.0 3.3 4.9



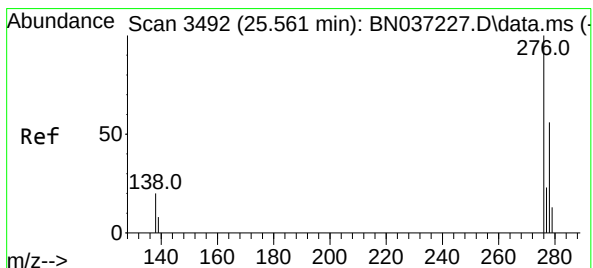
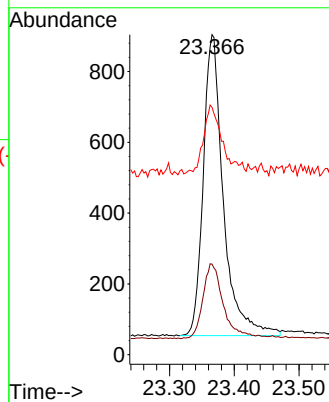
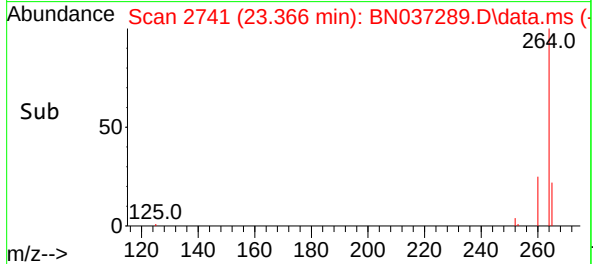


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

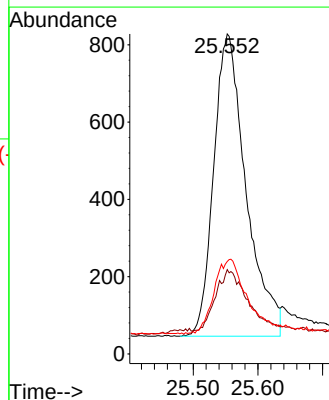
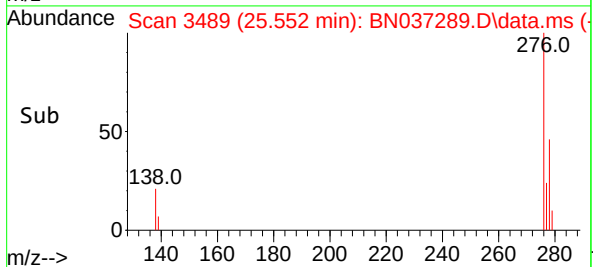
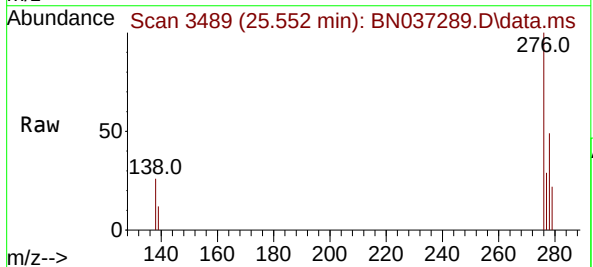


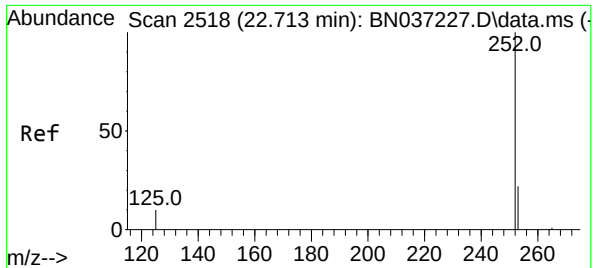
Tgt Ion:264 Resp: 1831
Ion Ratio Lower Upper
264 100
260 28.3 22.8 34.2
265 77.3 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037289.D
Acq: 16 Jun 2025 13:53

Tgt Ion:276 Resp: 2713
Ion Ratio Lower Upper
276 100
138 19.8 16.8 25.2
277 25.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

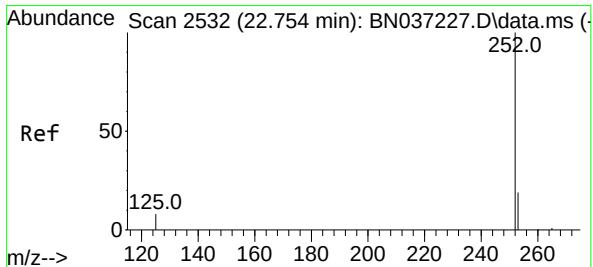
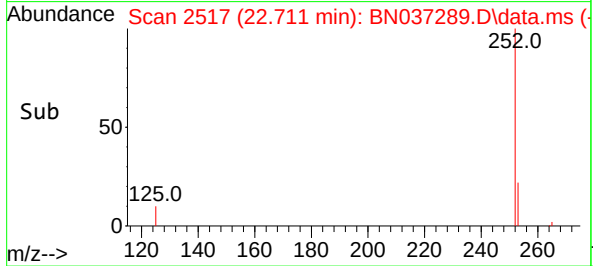
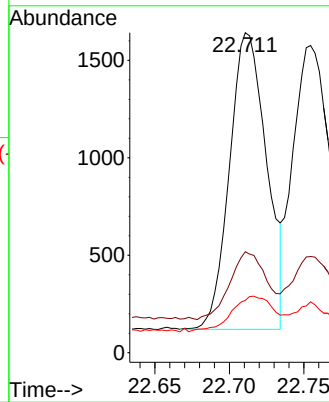
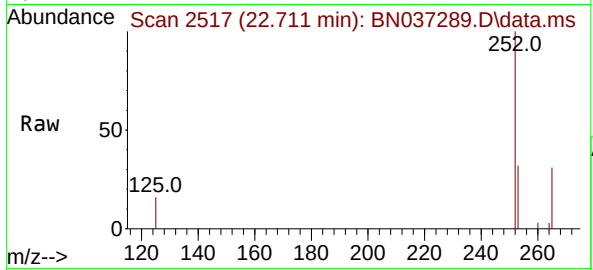
Tgt Ion:252 Resp: 2629

Ion Ratio Lower Upper

252 100

253 31.5 24.9 37.3

125 16.4 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.375 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

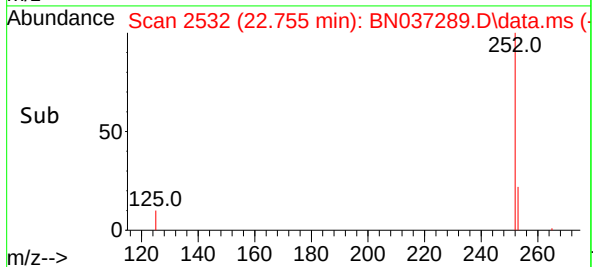
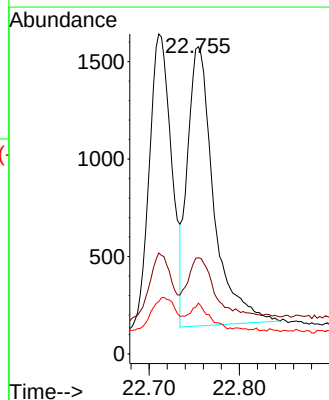
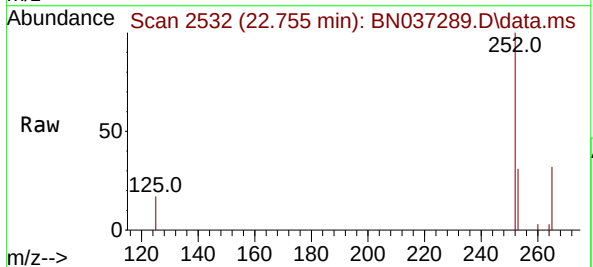
Tgt Ion:252 Resp: 2896

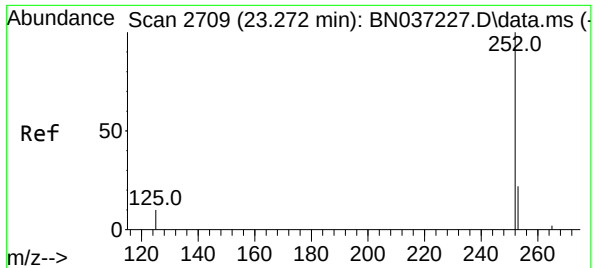
Ion Ratio Lower Upper

252 100

253 31.3 24.6 37.0

125 16.6 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

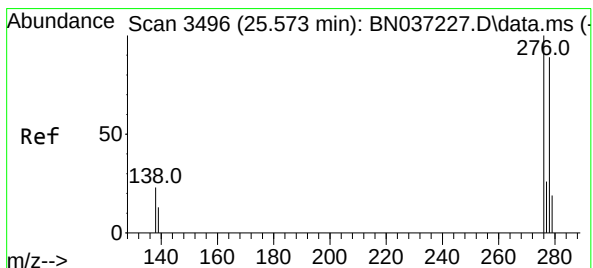
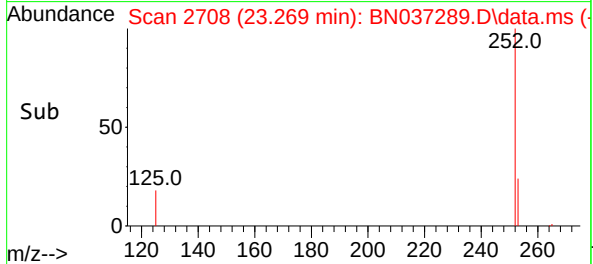
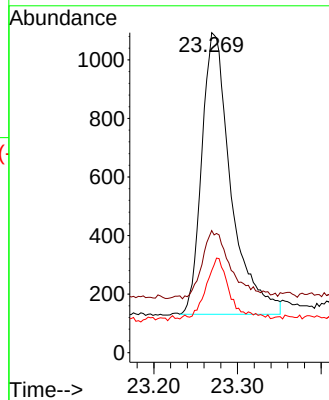
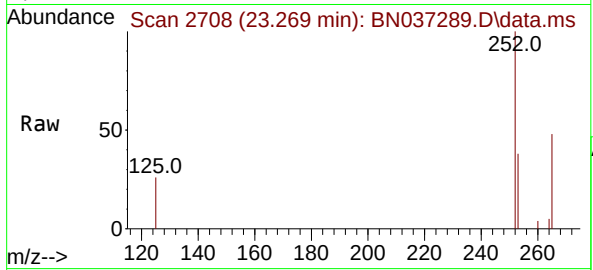
Tgt Ion:252 Resp: 2331

Ion Ratio Lower Upper

252 100

253 38.2 29.4 44.2

125 25.6 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.393 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037289.D

Acq: 16 Jun 2025 13:53

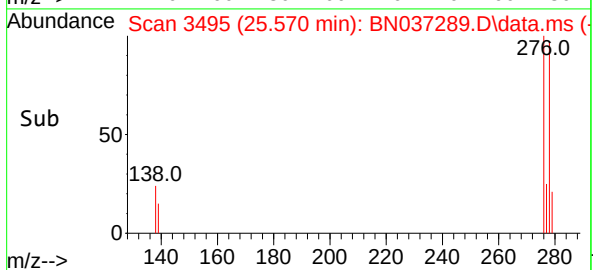
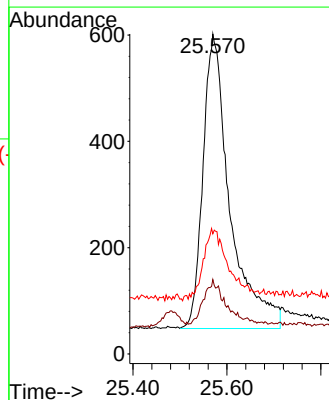
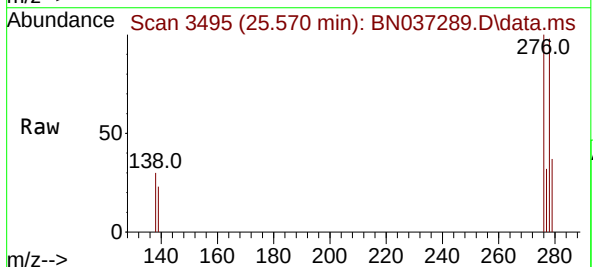
Tgt Ion:278 Resp: 2205

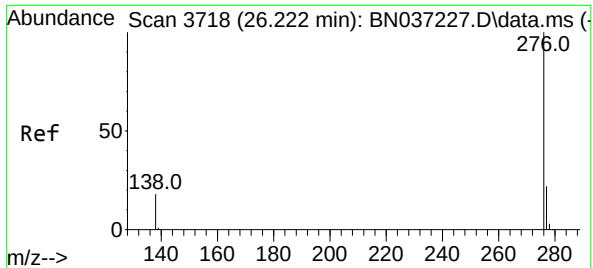
Ion Ratio Lower Upper

278 100

139 23.3 17.8 26.6

279 37.5 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.379 ng

RT: 26.216 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037289.D

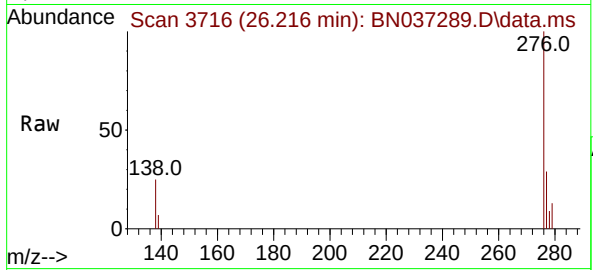
Acq: 16 Jun 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



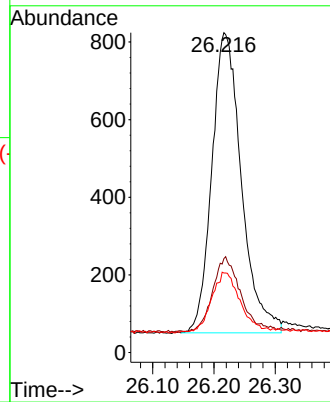
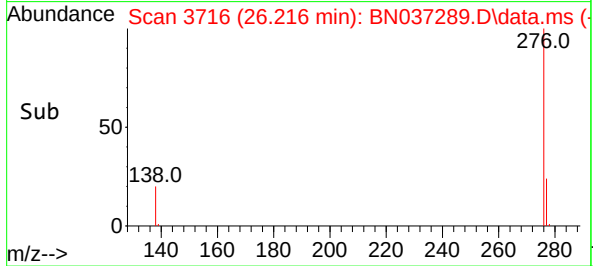
Tgt Ion:276 Resp: 2595

Ion Ratio Lower Upper

276 100

277 29.4 22.0 33.0

138 24.9 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037289.D
 Acq On : 16 Jun 2025 13:53
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 14:25:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	78	0.00
2	1,4-Dioxane	0.549	0.534	2.7	79	0.00
3	n-Nitrosodimethylamine	1.250	1.378	-10.2	84	0.00
4 S	2-Fluorophenol	0.982	0.975	0.7	81	0.00
5 S	Phenol-d6	1.035	1.052	-1.6	85	0.00
6	bis(2-Chloroethyl)ether	0.927	1.001	-8.0	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.395	0.419	-6.1	87	-0.01
9	Naphthalene	1.158	1.123	3.0	79	-0.01
10	Hexachlorobutadiene	0.282	0.296	-5.0	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.562	-4.7	81	0.00
12	2-Methylnaphthalene	0.704	0.703	0.1	80	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.166	0.186	-12.0	83	-0.01
15 S	2-Fluorobiphenyl	1.681	1.752	-4.2	79	0.00
16	Acenaphthylene	1.960	1.900	3.1	77	-0.01
17	Acenaphthene	1.265	1.232	2.6	76	0.00
18	Fluorene	1.625	1.599	1.6	77	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.094	-2.2	110	-0.01
21	4-Bromophenyl-phenylether	0.261	0.261	0.0	82	0.00
22	Hexachlorobenzene	0.302	0.305	-1.0	75	0.00
23	Atrazine	0.232	0.225	3.0	78	-0.01
24	Pentachlorophenol	0.148	0.148	0.0	92	0.00
25	Phenanthrene	1.269	1.230	3.1	80	-0.01
26	Anthracene	1.161	1.108	4.6	79	0.00
27 SURR	Fluoranthene-d10	1.046	1.069	-2.2	78	0.00
28	Fluoranthene	1.485	1.396	6.0	76	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	81	0.00
30	Pyrene	1.881	1.905	-1.3	79	0.00
31 S	Terphenyl-d14	0.904	0.931	-3.0	80	0.00
32	Benzo(a)anthracene	1.351	1.303	3.6	86	0.00
33	Chrysene	1.683	1.658	1.5	79	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	1.096	-8.9	87	0.00
35 I	Perylene-d12	1.000	1.000	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.482	8.1	84	0.00
37	Benzo(b)fluoranthene	1.463	1.436	1.8	89	0.00
38	Benzo(k)fluoranthene	1.689	1.582	6.3	83	0.00
39 C	Benzo(a)pyrene	1.316	1.273	3.3	88	0.00
40	Dibenzo(a,h)anthracene	1.227	1.204	1.9	98	0.00
41	Benzo(g,h,i)perylene	1.496	1.417	5.3	84	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
 Data File : BN037289.D
 Acq On : 16 Jun 2025 13:53
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 16 14:25:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	78	0.00
2	1,4-Dioxane	0.400	0.389	2.8	79	0.00
3	n-Nitrosodimethylamine	0.400	0.441	-10.2	84	0.00
4 S	2-Fluorophenol	0.400	0.397	0.8	81	0.00
5 S	Phenol-d6	0.400	0.406	-1.5	85	0.00
6	bis(2-Chloroethyl)ether	0.400	0.432	-8.0	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.400	0.424	-6.0	87	-0.01
9	Naphthalene	0.400	0.388	3.0	79	-0.01
10	Hexachlorobutadiene	0.400	0.420	-5.0	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.419	-4.7	81	0.00
12	2-Methylnaphthalene	0.400	0.399	0.3	80	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.447	-11.7	83	-0.01
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	79	0.00
16	Acenaphthylene	0.400	0.388	3.0	77	-0.01
17	Acenaphthene	0.400	0.389	2.8	76	0.00
18	Fluorene	0.400	0.394	1.5	77	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.476	-19.0	110	-0.01
21	4-Bromophenyl-phenylether	0.400	0.400	0.0	82	0.00
22	Hexachlorobenzene	0.400	0.404	-1.0	75	0.00
23	Atrazine	0.400	0.387	3.3	78	-0.01
24	Pentachlorophenol	0.400	0.400	0.0	92	0.00
25	Phenanthrene	0.400	0.388	3.0	80	-0.01
26	Anthracene	0.400	0.382	4.5	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.409	-2.2	78	0.00
28	Fluoranthene	0.400	0.376	6.0	76	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	81	0.00
30	Pyrene	0.400	0.405	-1.3	79	0.00
31 S	Terphenyl-d14	0.400	0.412	-3.0	80	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	86	0.00
33	Chrysene	0.400	0.394	1.5	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	87	0.00
35 I	Perylene-d12	0.400	0.400	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	84	0.00
37	Benzo(b)fluoranthene	0.400	0.393	1.8	89	0.00
38	Benzo(k)fluoranthene	0.400	0.375	6.3	83	0.00
39 C	Benzo(a)pyrene	0.400	0.387	3.3	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.393	1.8	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.379	5.3	84	0.00

(#) = Out of Range

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



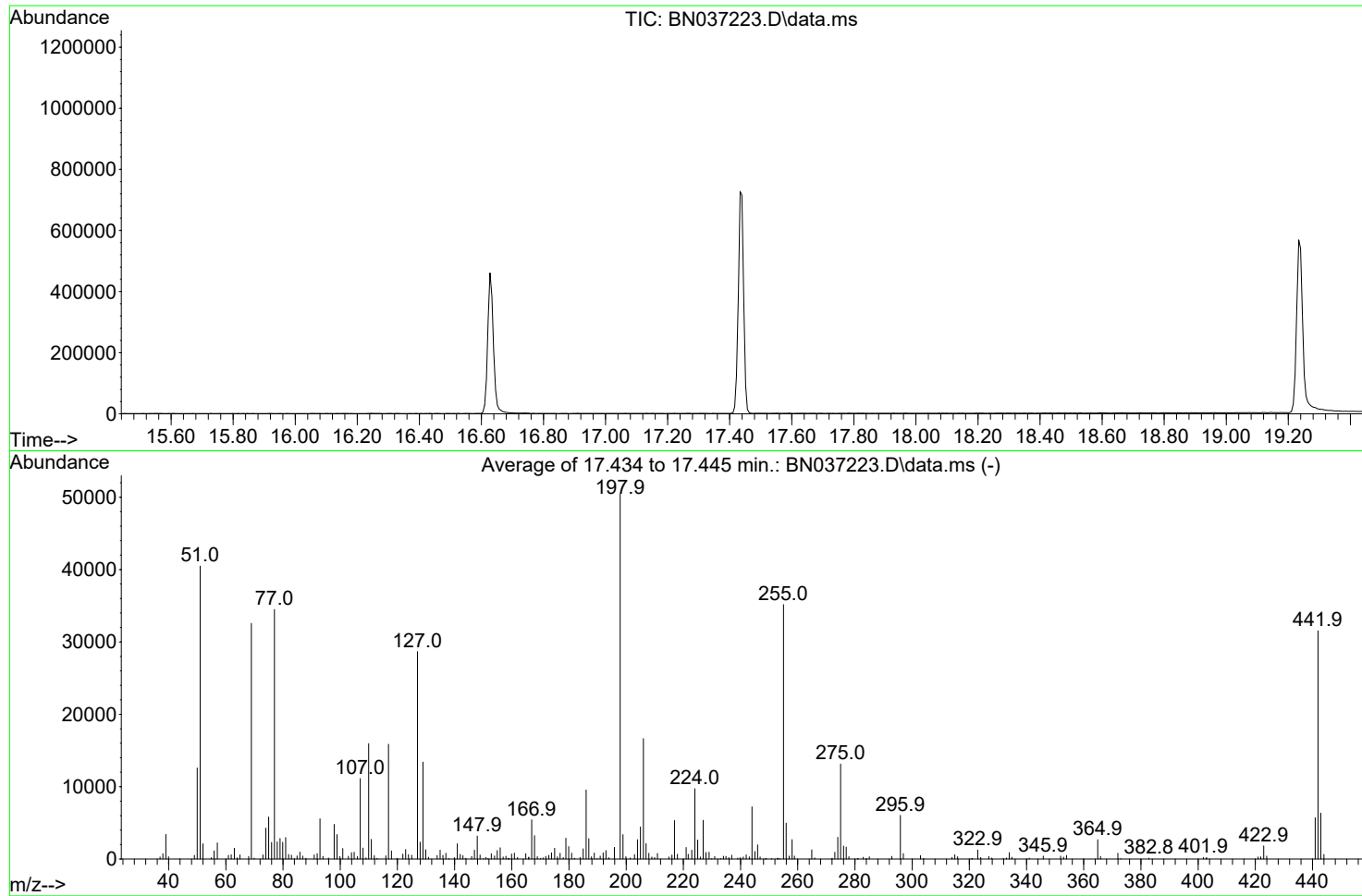
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
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\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



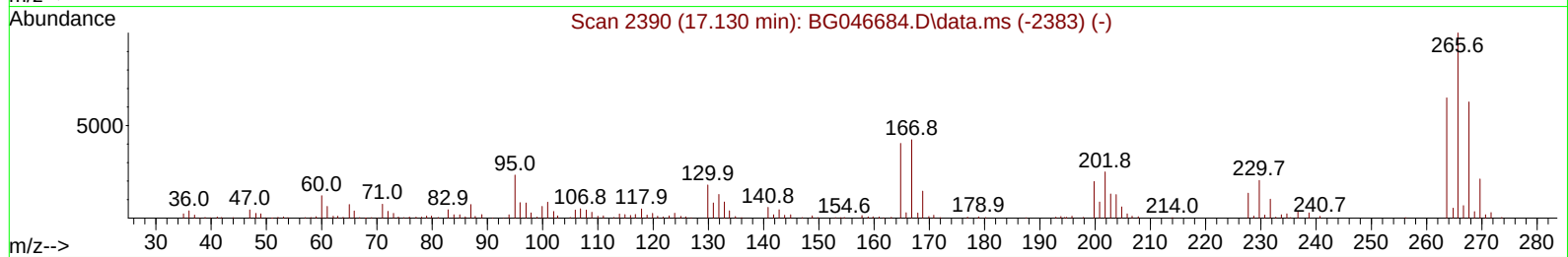
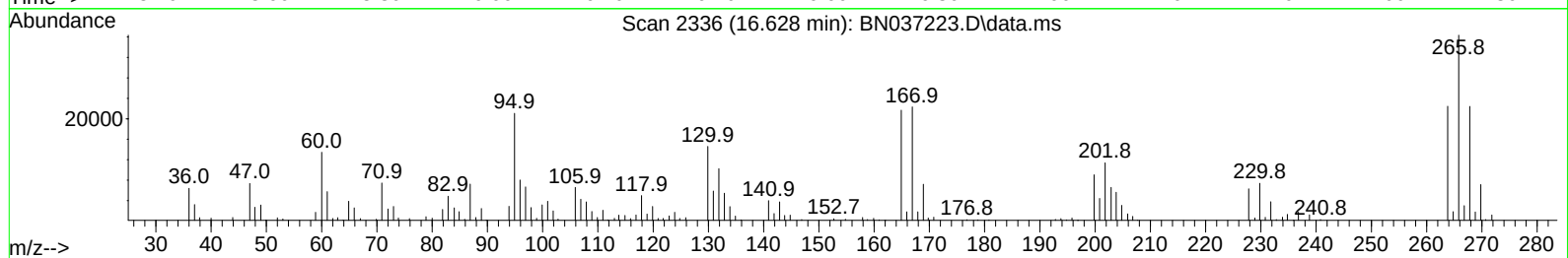
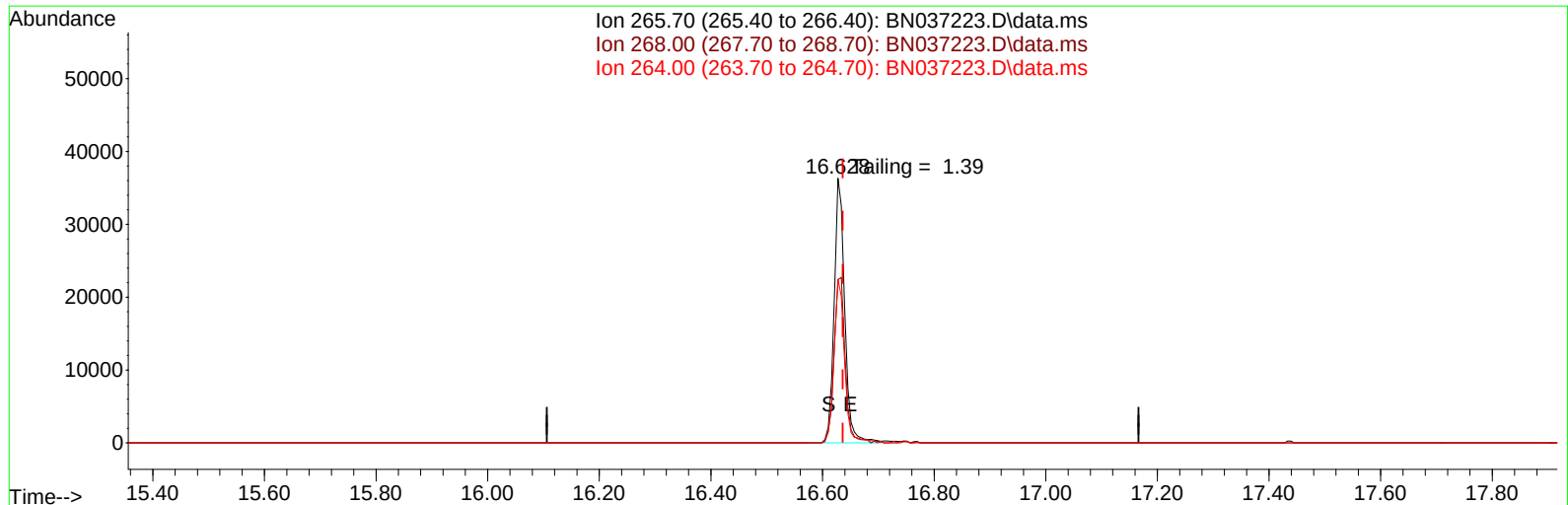
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.1	362	PASS
69	69	100	100	100.0	32573	PASS
70	69	0.00	2	0.4	132	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50453	PASS
199	198	5	9	6.7	3367	PASS
365	198	1	100	5.3	2675	PASS
441	443	0.01	150	90.1	5714	PASS
442	442	100	100	100.0	31557	PASS
443	442	15	24	20.1	6344	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 13765.31 ng

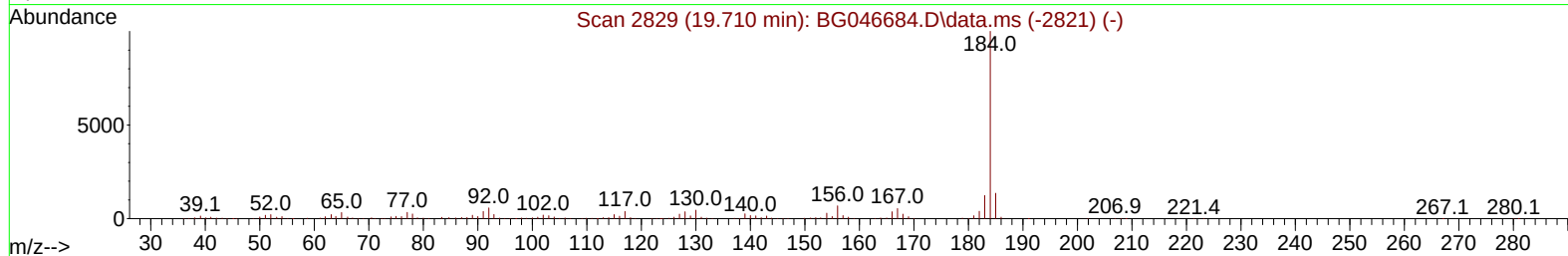
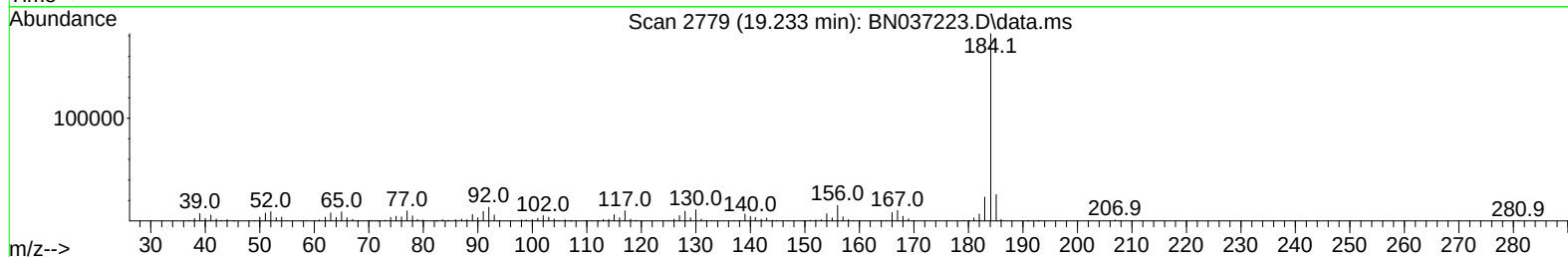
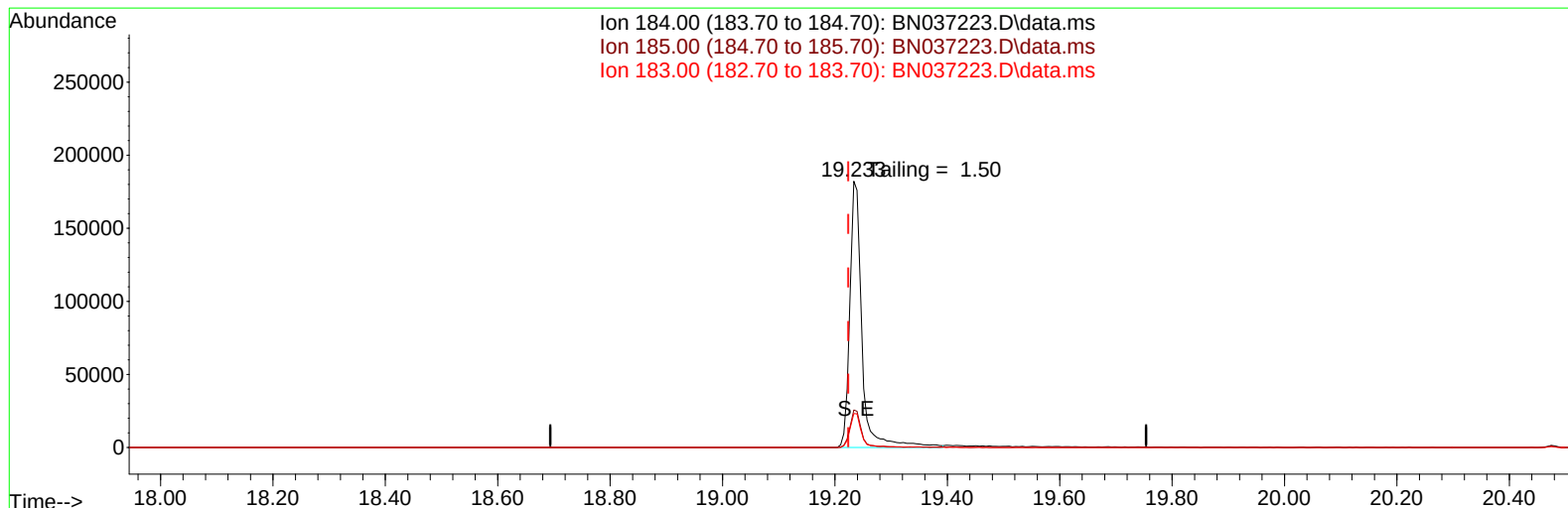
response 48504

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.73
264.00	61.60	61.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 272616

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	12.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

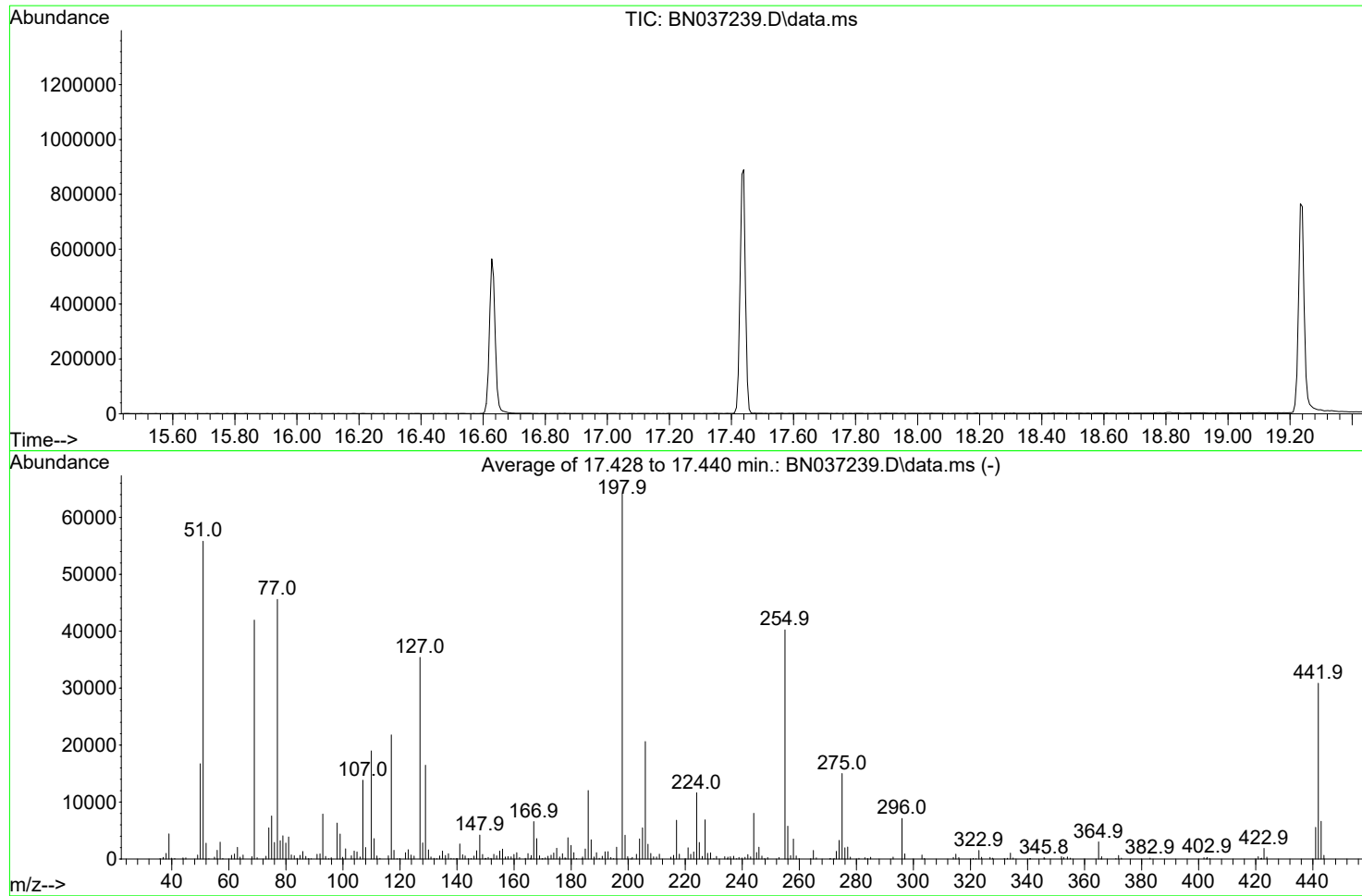
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037223.D</u>
Compound Name	Response	Retention Time
DDT	179828	20.475
DDD	1789	20.086
DDE	62	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
1851	181679	1.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



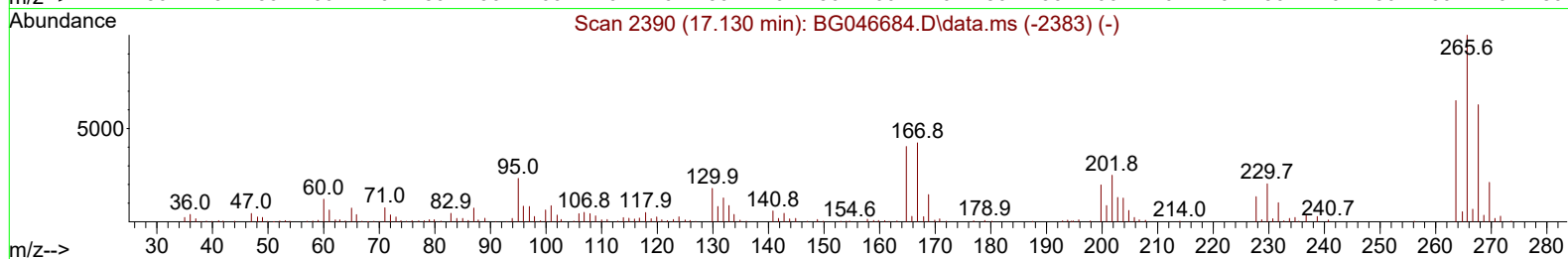
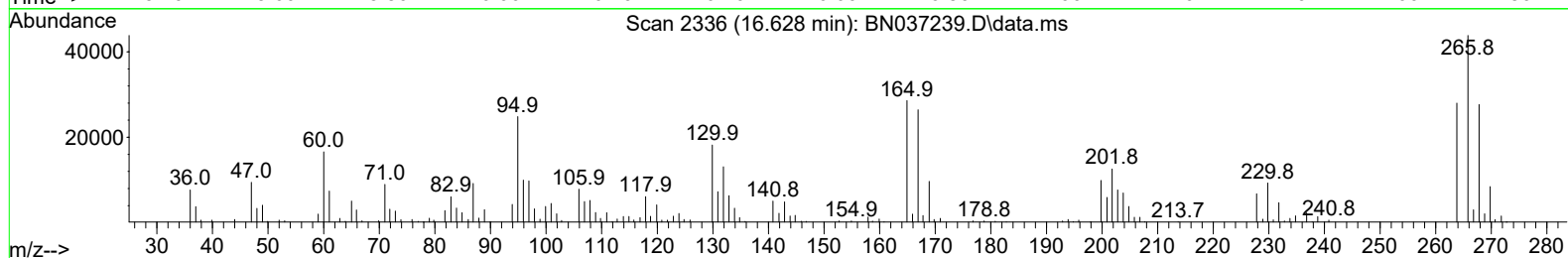
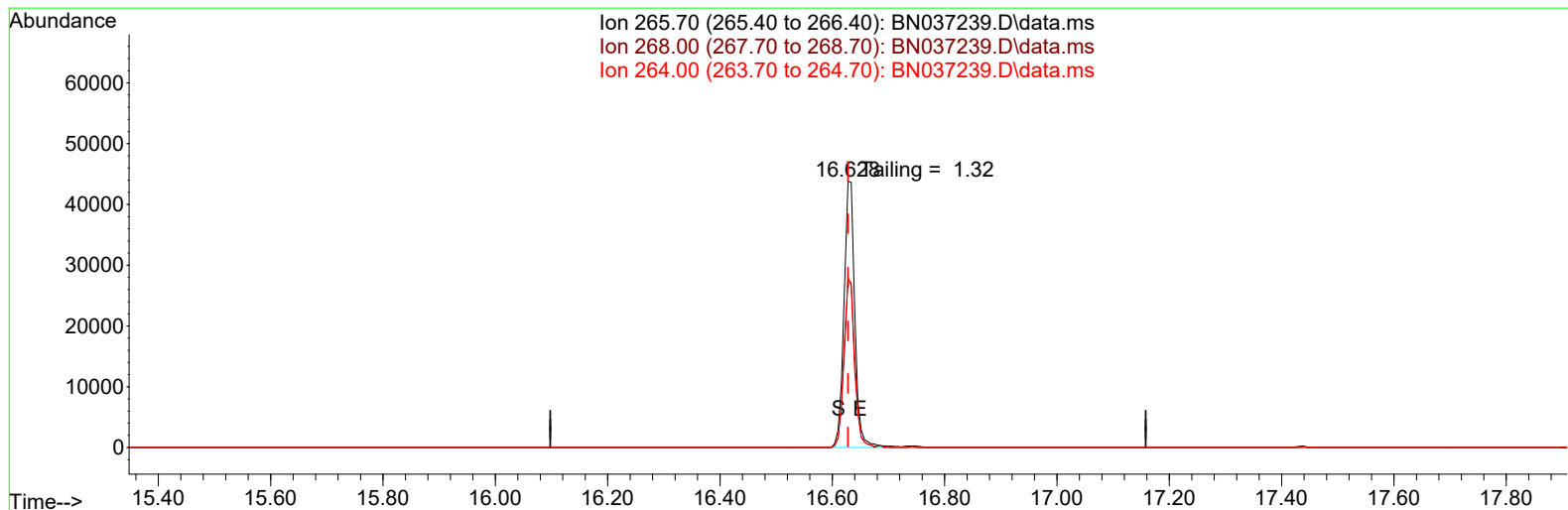
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.0	417	PASS
69	69	100	100	100.0	41957	PASS
70	69	0.00	2	0.6	239	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	64112	PASS
199	198	5	9	6.5	4172	PASS
365	198	1	100	4.7	3005	PASS
441	443	0.01	150	83.9	5553	PASS
442	442	100	100	100.0	30862	PASS
443	442	15	24	21.5	6621	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration



TIC: BN037239.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 18785.64 ng

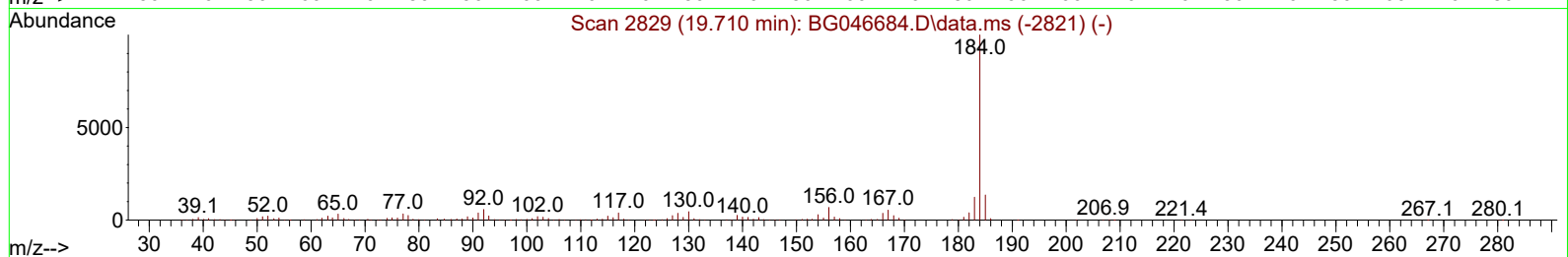
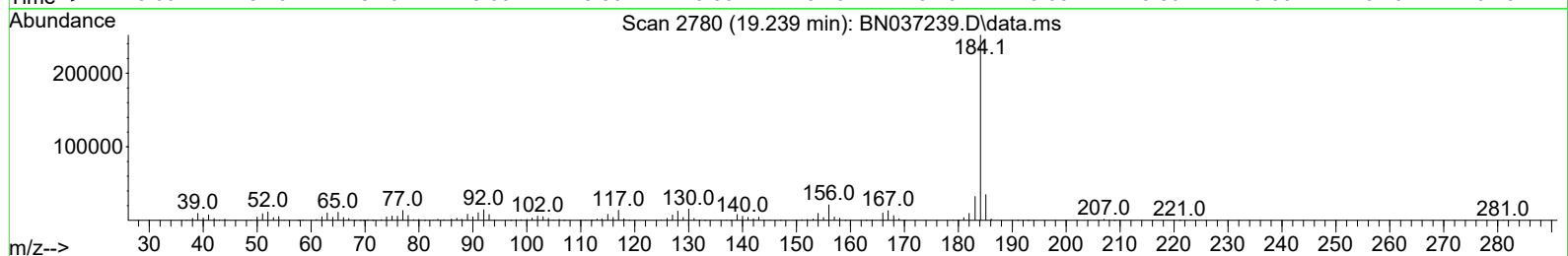
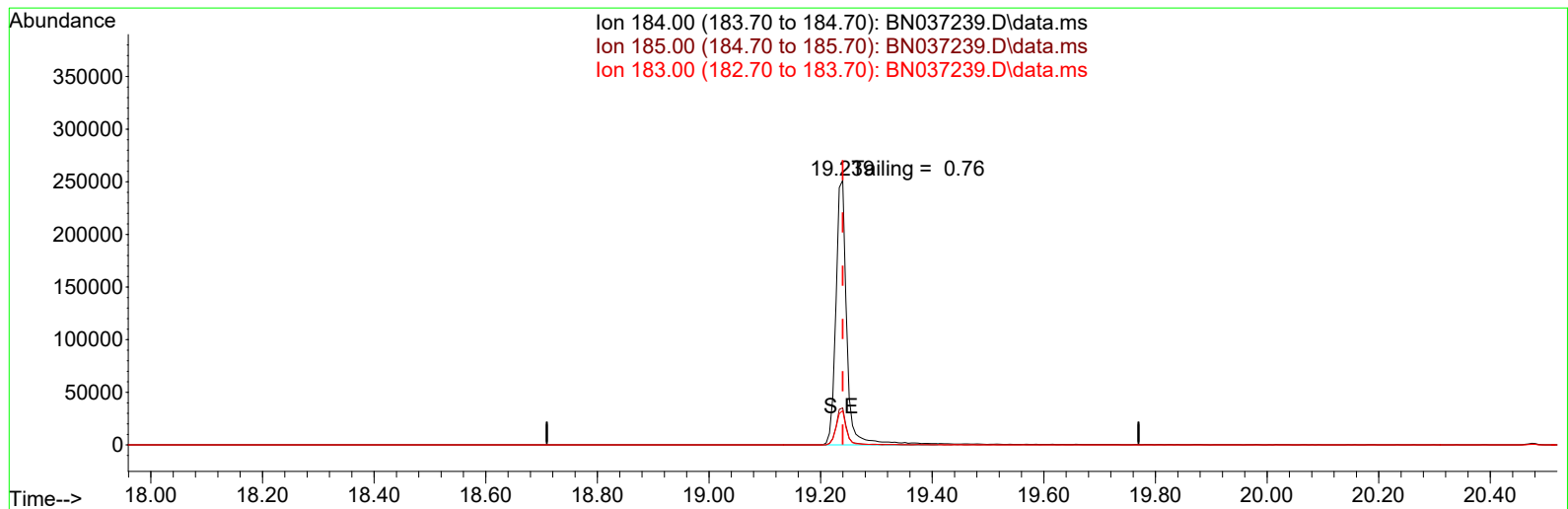
response 58970

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.13
264.00	61.60	63.84
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration



TIC: BN037239.D\data.ms

(77) Benizidine

19.239min (0.000) 0.00 ng

response 344668

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.97
183.00	13.20	12.95
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

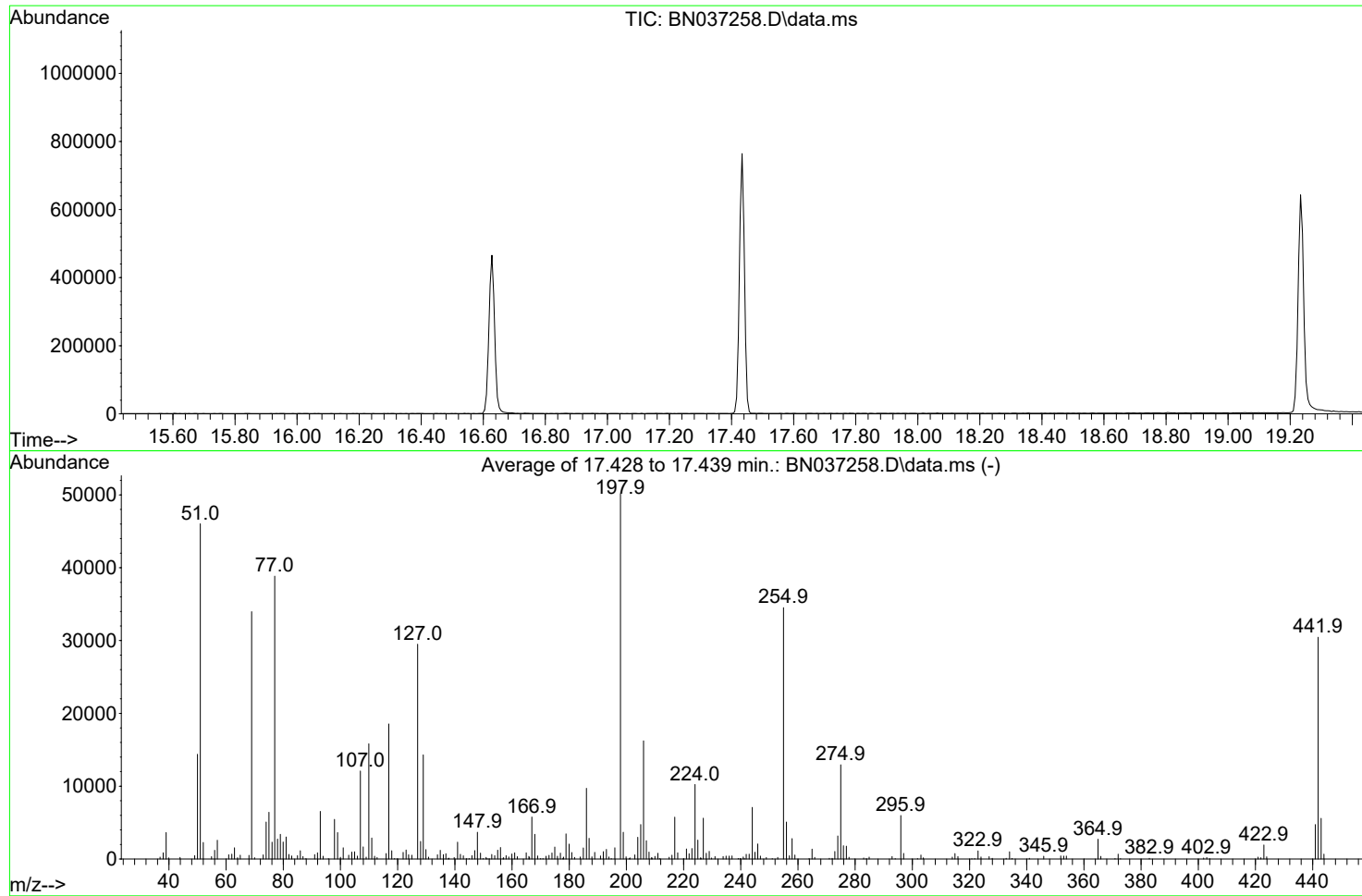
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037239.D</u>
Compound Name	Response	Retention Time
DDT	204788	20.475
DDD	3055	20.039
DDE	55	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3110	207898	1.50

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



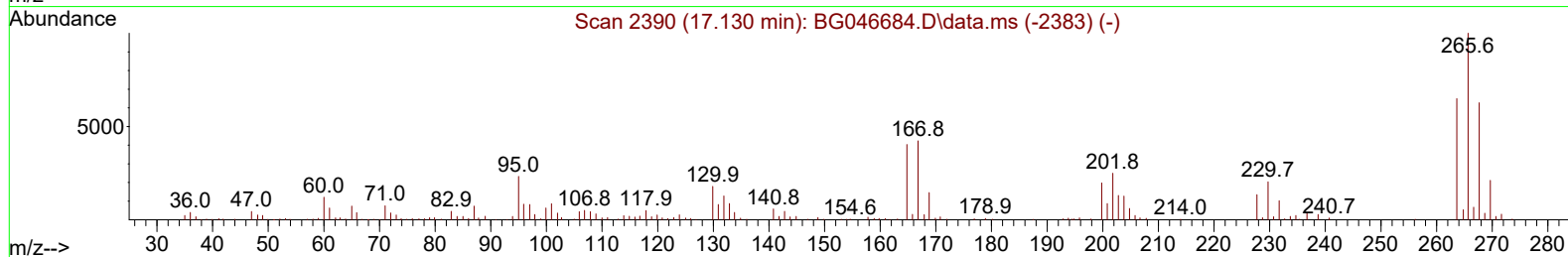
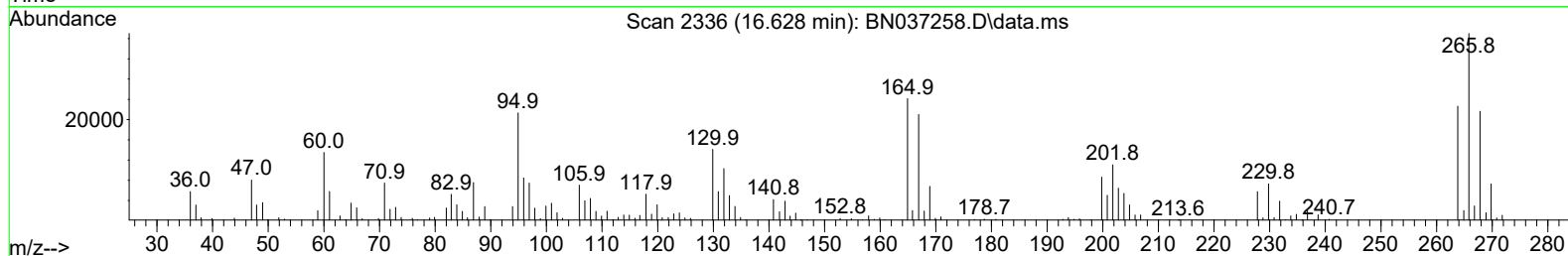
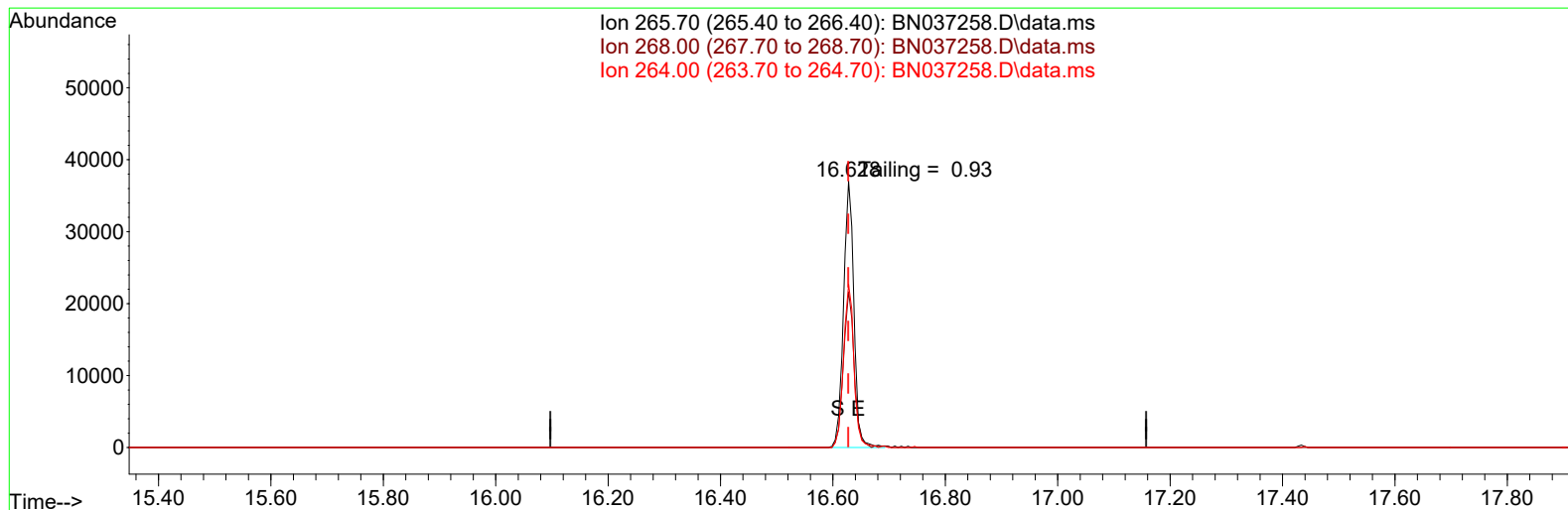
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	513	PASS
69	69	100	100	100.0	33968	PASS
70	69	0.00	2	0.6	187	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50133	PASS
199	198	5	9	7.3	3674	PASS
365	198	1	100	5.4	2731	PASS
441	443	0.01	150	84.6	4726	PASS
442	442	100	100	100.0	30451	PASS
443	442	15	24	18.3	5584	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 01:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 01:30:21 2025
Response via : Initial Calibration



TIC: BN037258.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 18255.95 ng

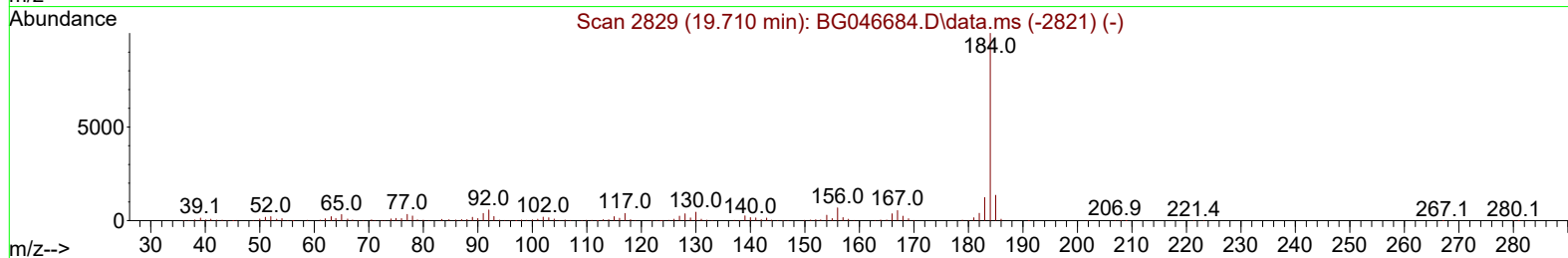
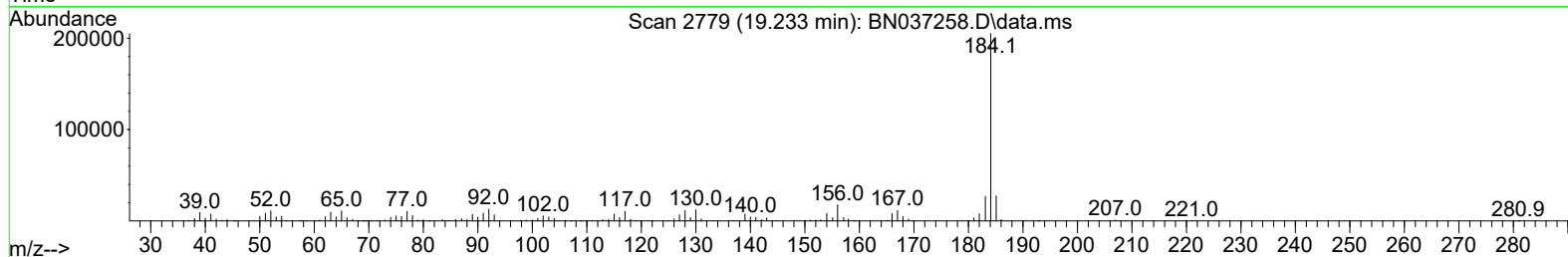
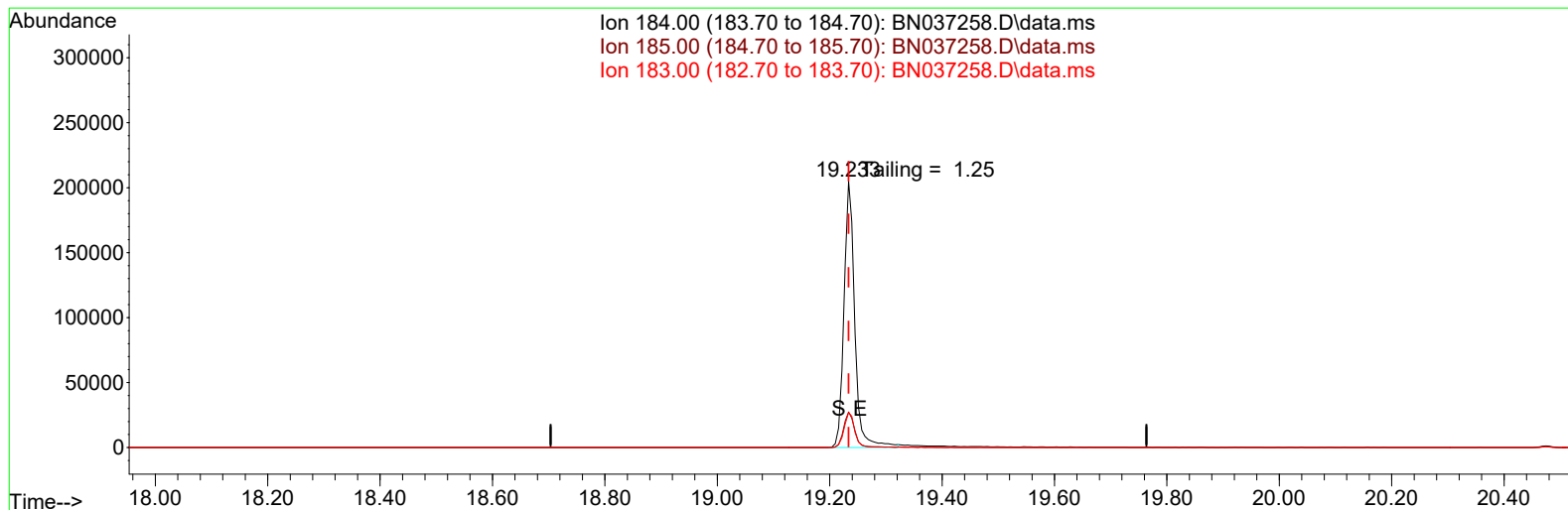
response 47565

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.50
264.00	61.60	61.21
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037258.D
Acq On : 14 Jun 2025 12:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 01:30:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 01:30:21 2025
Response via : Initial Calibration



TIC: BN037258.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 278955

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.39
183.00	13.20	13.11
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

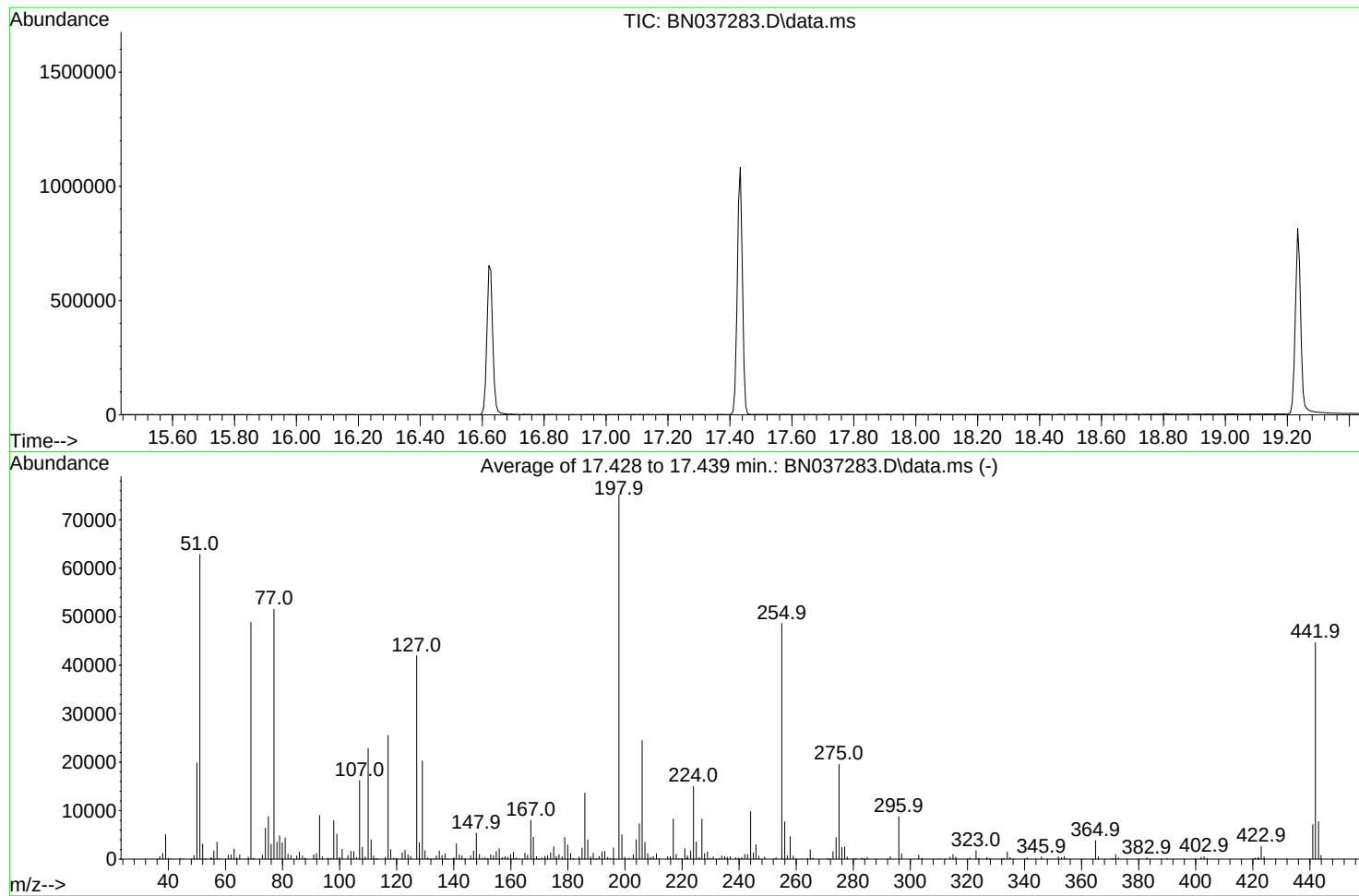
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037258.D</u>
Compound Name	Response	Retention Time
DDT	157903	20.475
DDD	2424	20.033
DDE	2656	17.434
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5080	162983	3.12

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
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\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 16 03:00:26 2025



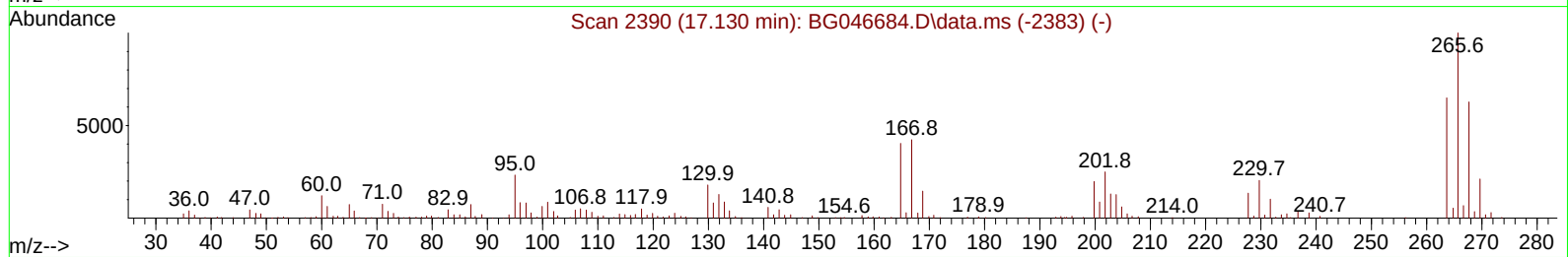
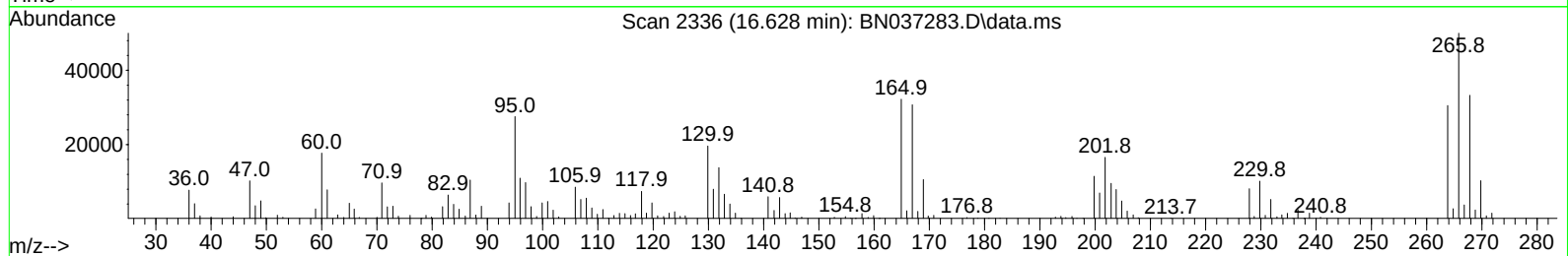
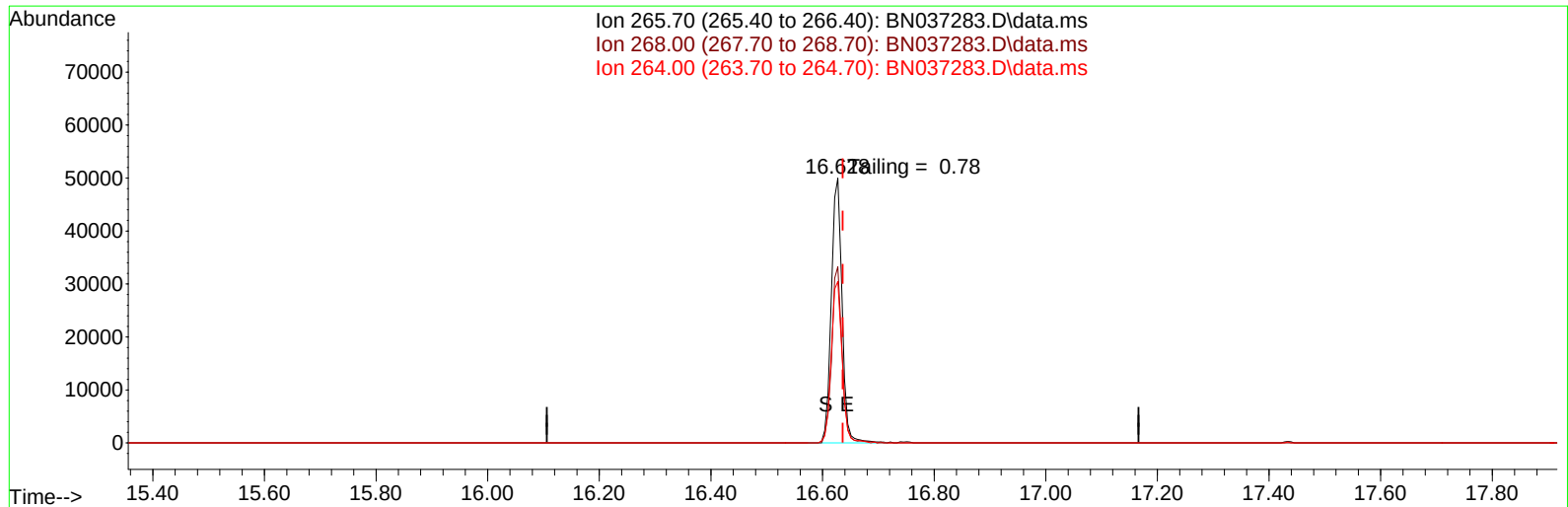
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.9	440	PASS
69	69	100	100	100.0	48840	PASS
70	69	0.00	2	0.4	216	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	75176	PASS
199	198	5	9	6.7	5035	PASS
365	198	1	100	5.1	3812	PASS
441	443	0.01	150	92.0	7125	PASS
442	442	100	100	100.0	44672	PASS
443	442	15	24	17.3	7741	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 15:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037283.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 14961.68 ng

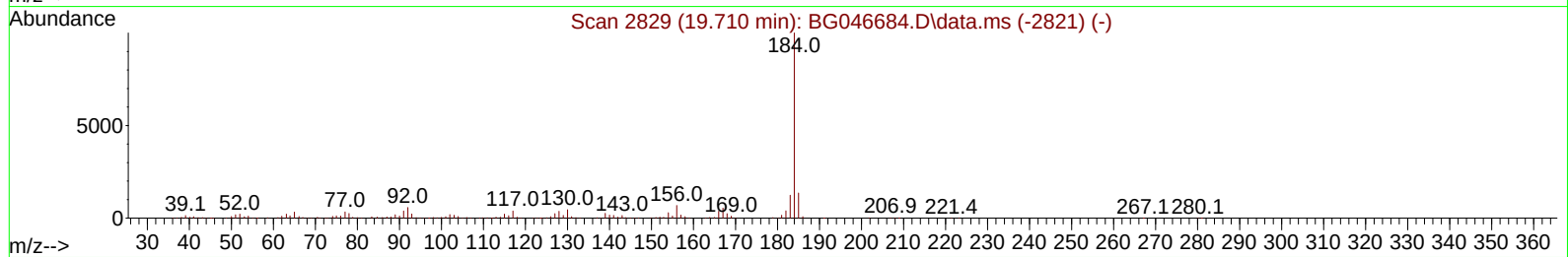
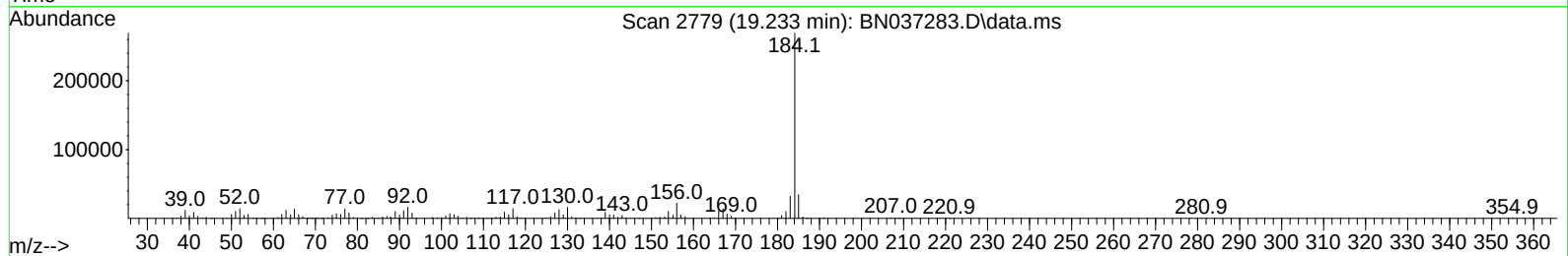
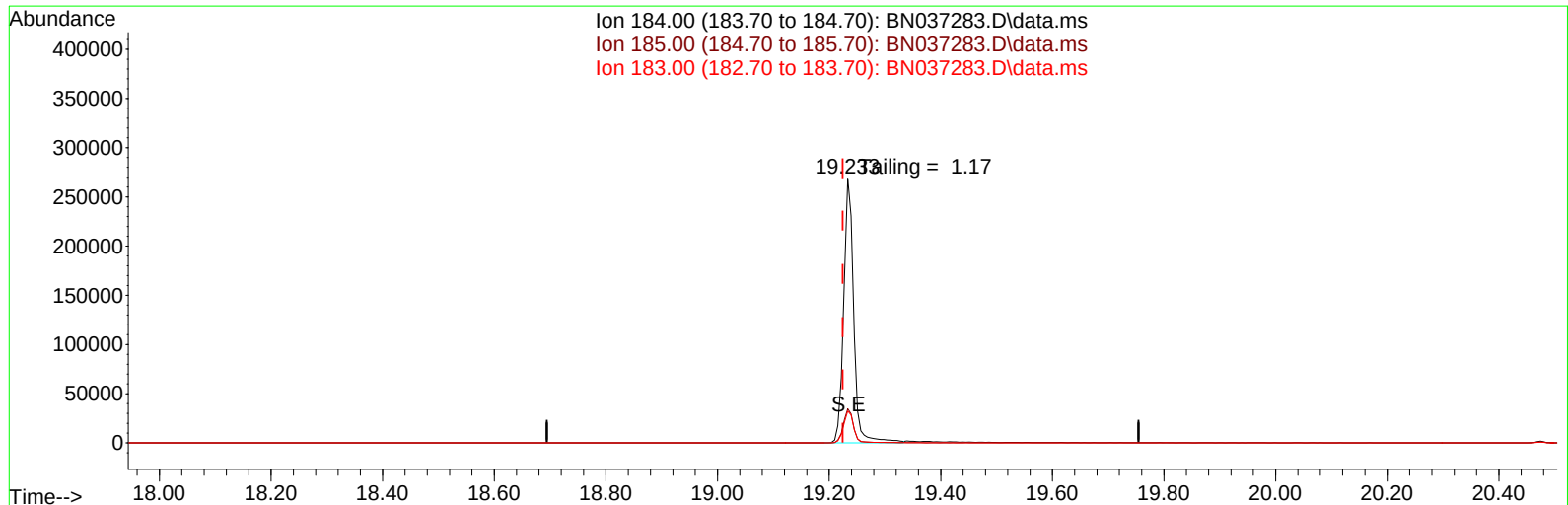
response 66692

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.54
264.00	61.60	61.02
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061625\
Data File : BN037283.D
Acq On : 16 Jun 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 16 15:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037283.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 337105

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.90
183.00	13.20	12.04
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/16/2025	BNA_N	<u>BN037258.D</u>
Compound Name	Response	Retention Time
DDT	229373	20.474
DDD	3011	20.086
DDE	0	0
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3011	232384	1.30

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:	PB168458BL	SDG No.:	Q2299
Lab Sample ID:	PB168458BL	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
BN037241.D	1	06/13/25 08:03	06/14/25 00:31	PB168458

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	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	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	1030	7.582				
1146-65-2	Naphthalene-d8	2350	10.362				
15067-26-2	Acenaphthene-d10	1250	14.235				
1517-22-2	Phenanthrene-d10	2010	16.984				
1719-03-5	Chrysene-d12	1420	21.18				
1520-96-3	Perylene-d12	1180	23.369				

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\BN061325\
 Data File : BN037241.D
 Acq On : 14 Jun 2025 00:31
 Operator : RC/JU
 Sample : PB168458BL
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168458BL

Quant Time: Jun 14 02:05:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1034	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2349	0.400	ng	# 0.00
13) Acenaphthene-d10	14.235	164	1253	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	2010	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1424	0.400	ng	# 0.00
35) Perylene-d12	23.369	264	1183	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	900	0.354	ng	0.00
5) Phenol-d6	6.766	99	773	0.289	ng	0.00
8) Nitrobenzene-d5	8.749	82	607	0.261	ng	0.02
11) 2-Methylnaphthalene-d10	11.971	152	1037	0.329	ng	0.02
14) 2,4,6-Tribromophenol	15.743	330	150	0.288	ng	0.01
15) 2-Fluorobiphenyl	12.863	172	1717	0.326	ng	0.02
27) Fluoranthene-d10	19.022	212	1933	0.368	ng	0.00
31) Terphenyl-d14	19.626	244	1259	0.391	ng	0.00

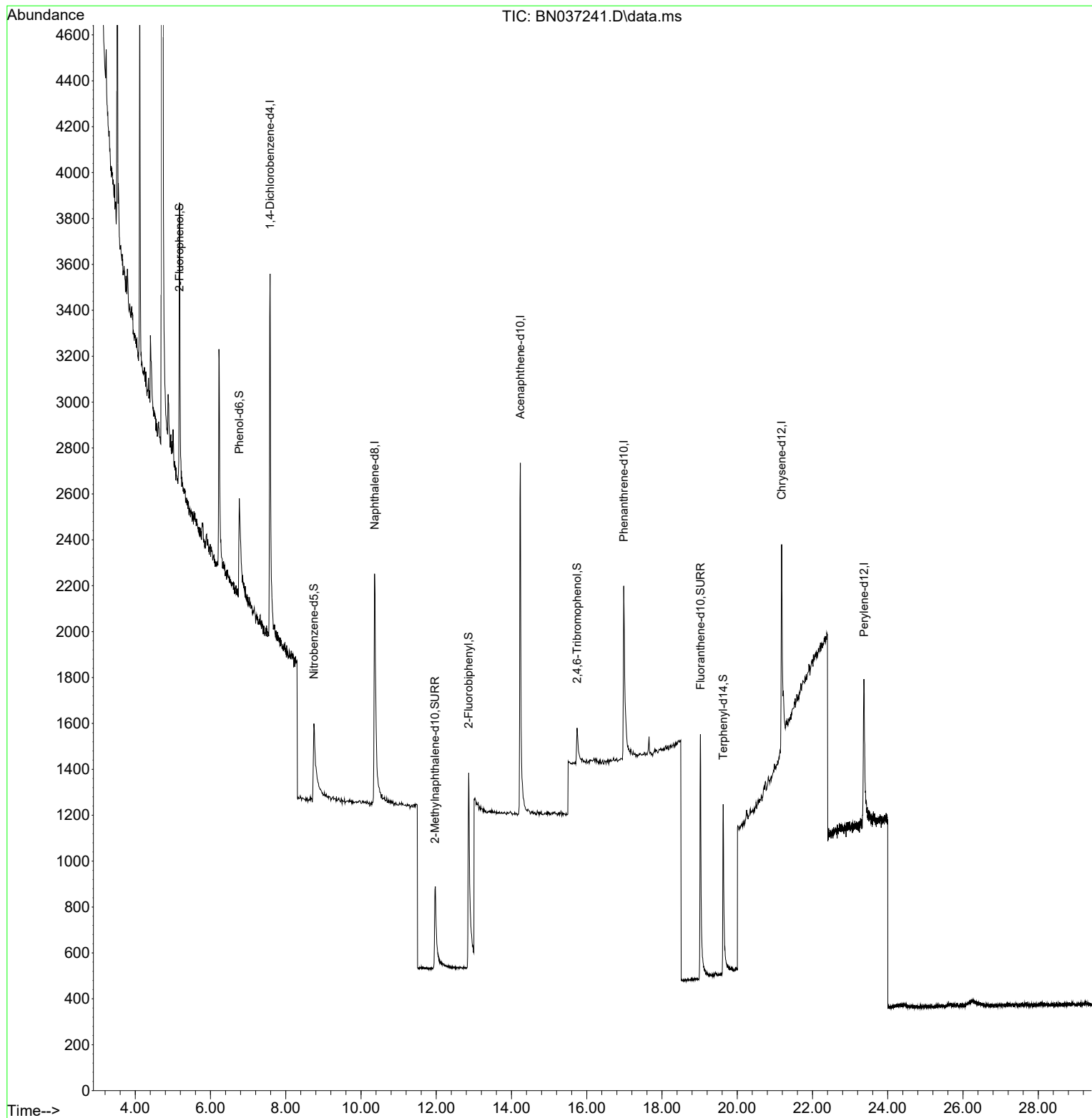
Target Compounds	Qvalue

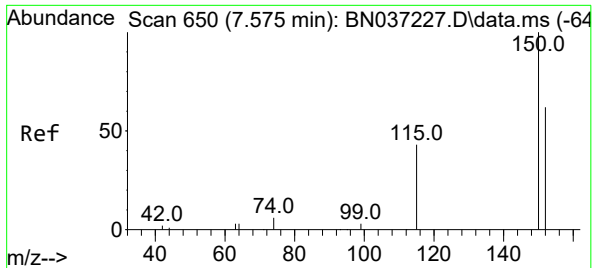
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037241.D
Acq On : 14 Jun 2025 00:31
Operator : RC/JU
Sample : PB168458BL
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BL

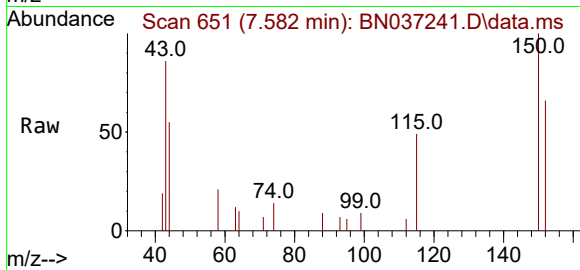
Quant Time: Jun 14 02:05:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



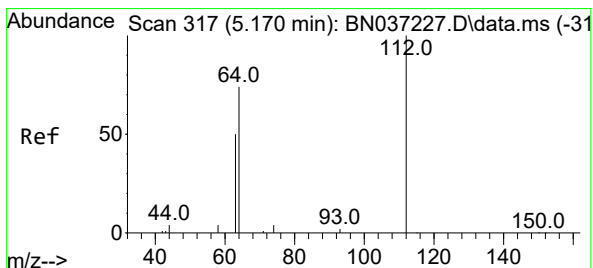
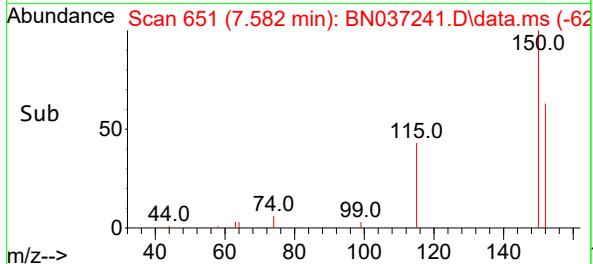
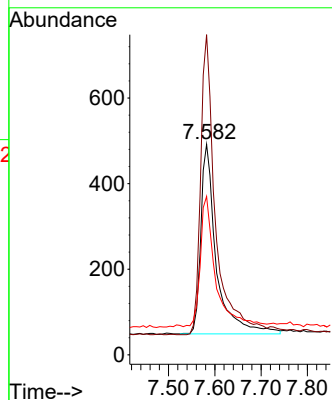


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

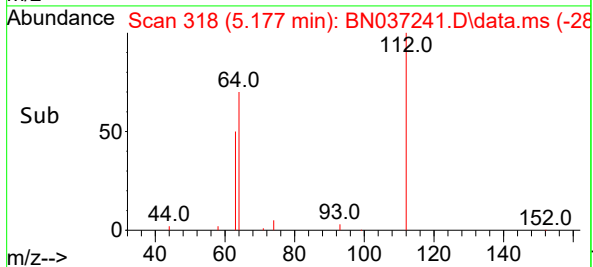
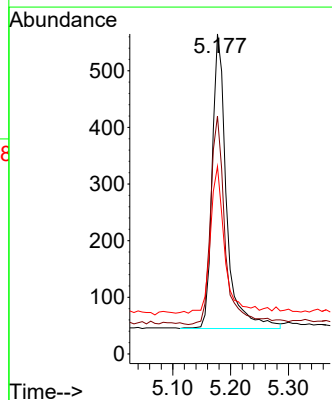
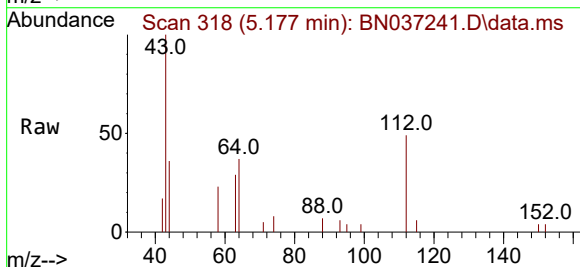


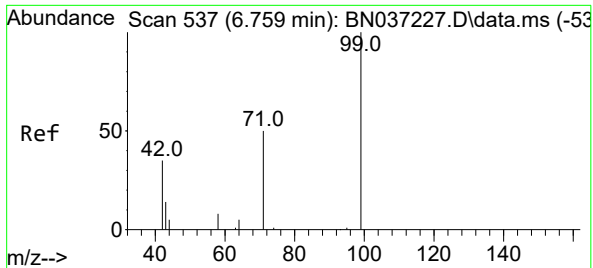
Tgt Ion:152 Resp: 1034
Ion Ratio Lower Upper
152 100
150 152.0 125.2 187.8
115 75.2 58.4 87.6



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:112 Resp: 900
Ion Ratio Lower Upper
112 100
64 72.9 57.2 85.8
63 50.1 39.8 59.6

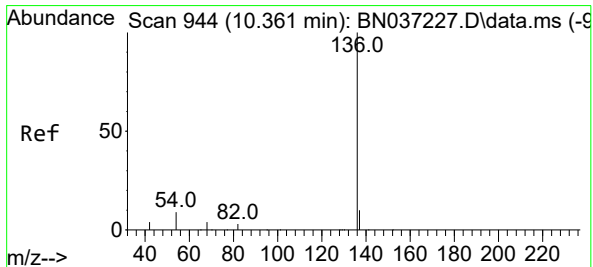
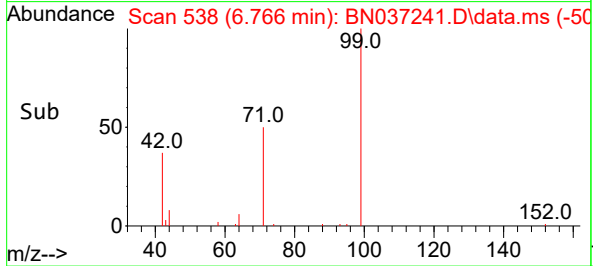
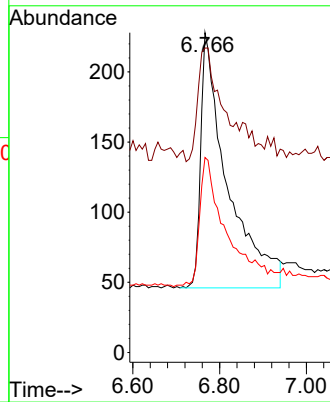
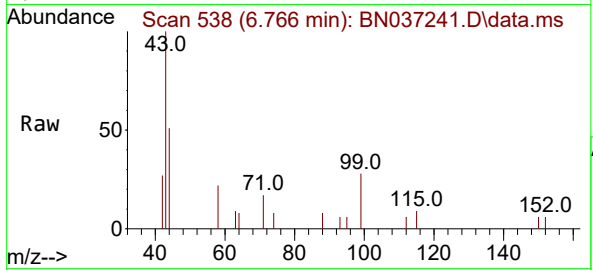




#5
Phenol-d6
Concen: 0.289 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

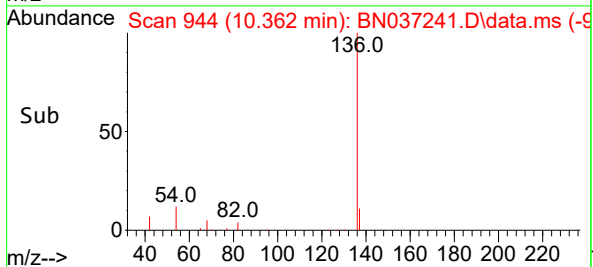
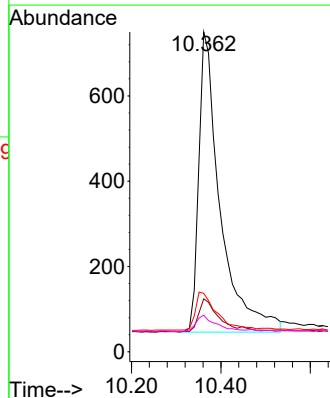
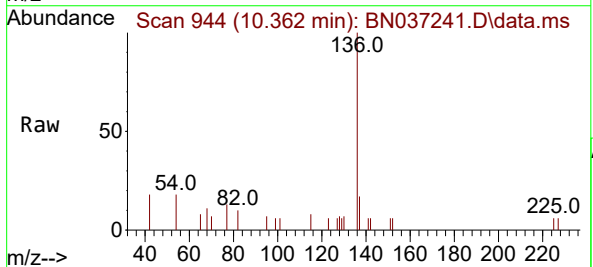
Instrument :
BNA_N
ClientSampleId :
PB168458BL

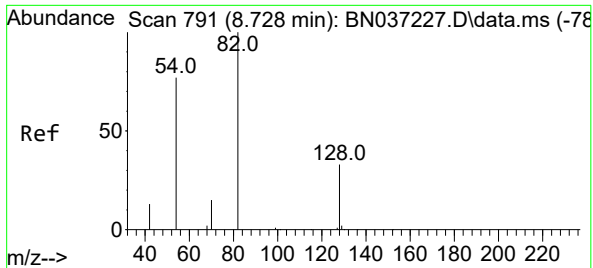
Tgt Ion: 99 Resp: 773
Ion Ratio Lower Upper
99 100
42 37.0 36.2 54.4
71 52.5 42.4 63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion: 136 Resp: 2349
Ion Ratio Lower Upper
136 100
137 16.5 10.6 15.8#
54 18.3 9.2 13.8#
68 11.5 5.4 8.0#

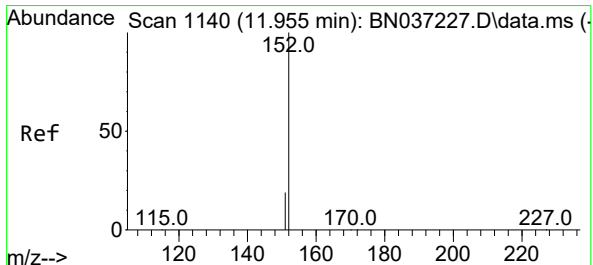
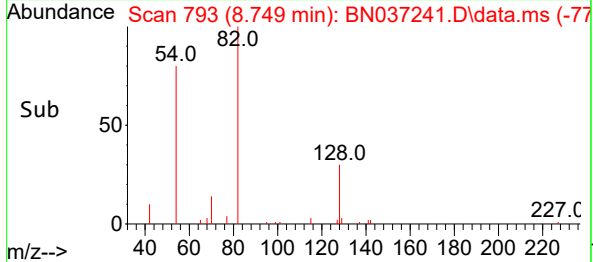
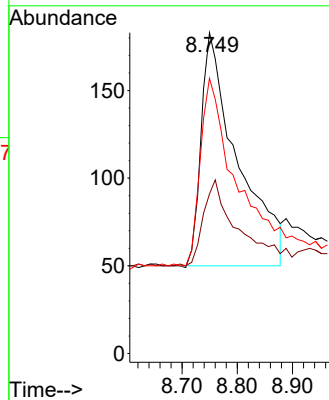
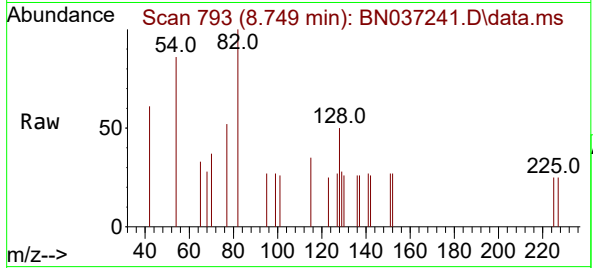




#8
Nitrobenzene-d5
Concen: 0.261 ng
RT: 8.749 min Scan# 791
Delta R.T. 0.022 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

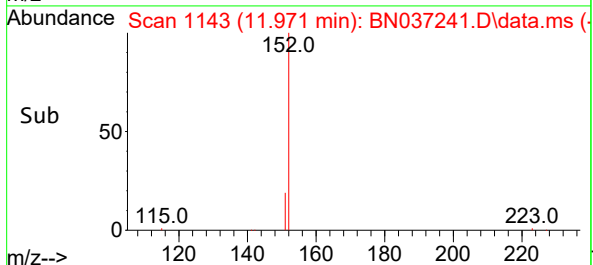
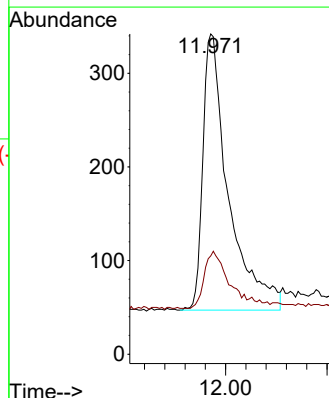
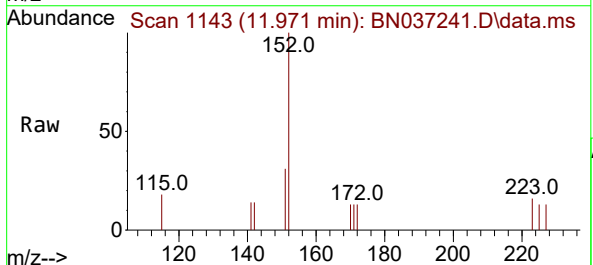
Instrument :
BNA_N
ClientSampleId :
PB168458BL

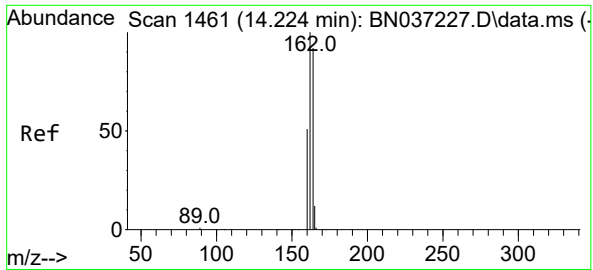
Tgt Ion: 82 Resp: 607
Ion Ratio Lower Upper
82 100
128 49.7 31.2 46.8#
54 85.8 63.3 94.9



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 11.971 min Scan# 1143
Delta R.T. 0.015 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion: 152 Resp: 1037
Ion Ratio Lower Upper
152 100
151 21.0 17.9 26.9

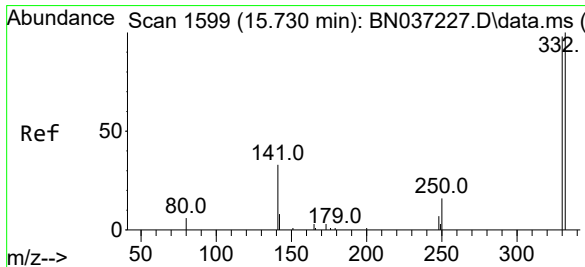
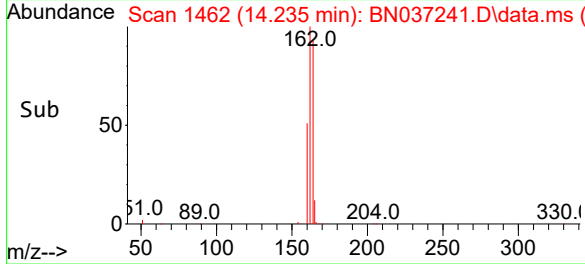
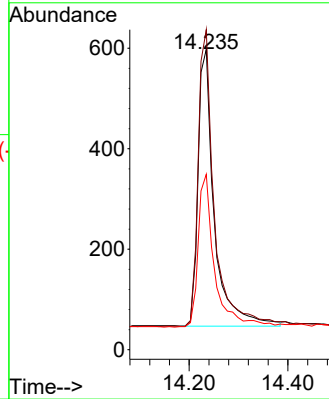
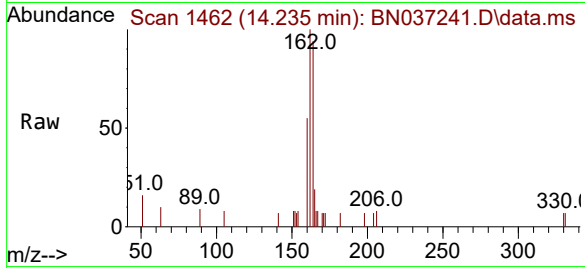




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 1461
Delta R.T. 0.011 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

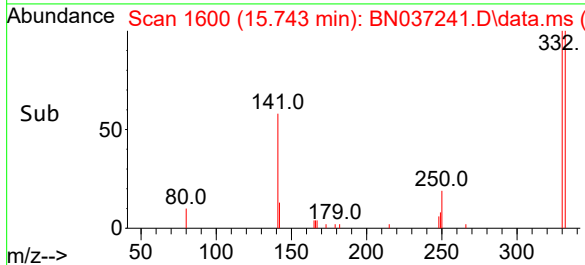
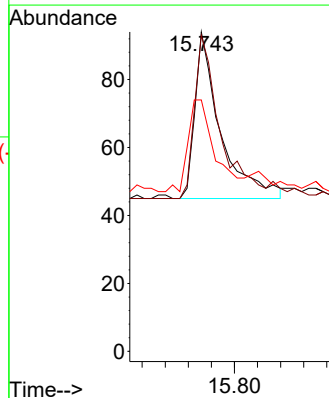
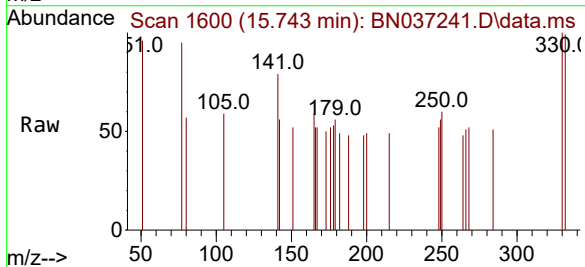
Instrument :
BNA_N
ClientSampleId :
PB168458BL

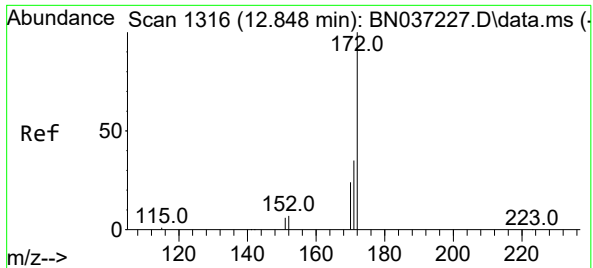
Tgt Ion:164 Resp: 1253
Ion Ratio Lower Upper
164 100
162 106.5 86.7 130.1
160 58.4 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.013 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:330 Resp: 150
Ion Ratio Lower Upper
330 100
332 98.7 74.9 112.3
141 58.7 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.326 ng

RT: 12.863 min Scan# 11

Delta R.T. 0.015 min

Lab File: BN037241.D

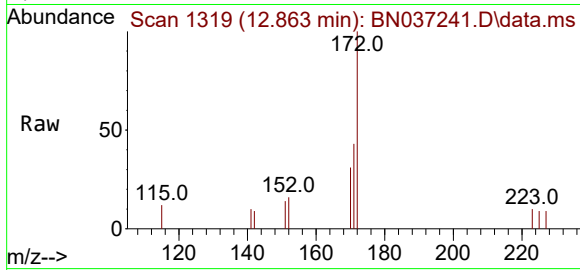
Acq: 14 Jun 2025 00:31

Instrument :

BNA_N

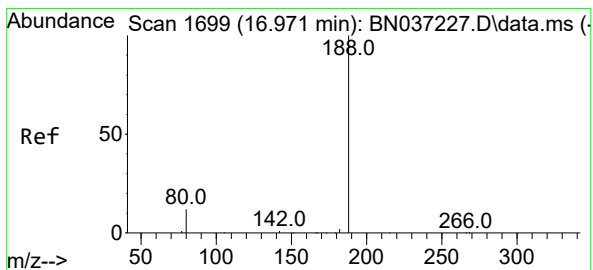
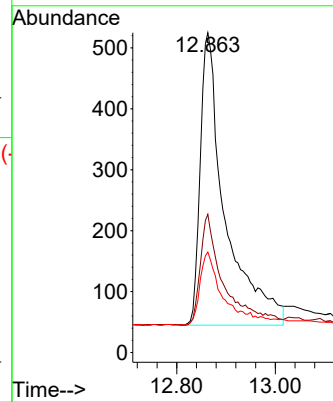
ClientSampleId :

PB168458BL



Tgt Ion:172 Resp: 1717

Ion	Ratio	Lower	Upper
172	100		
171	43.2	29.8	44.8
170	31.4	21.1	31.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1700

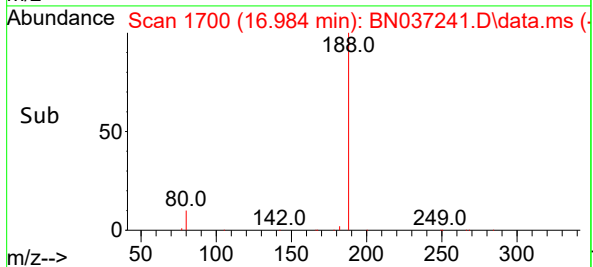
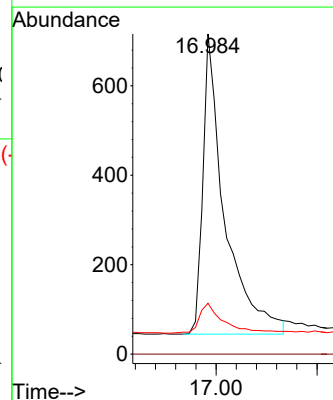
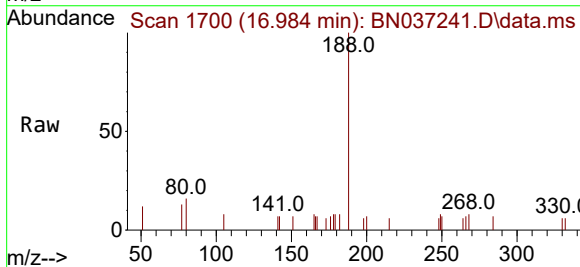
Delta R.T. 0.013 min

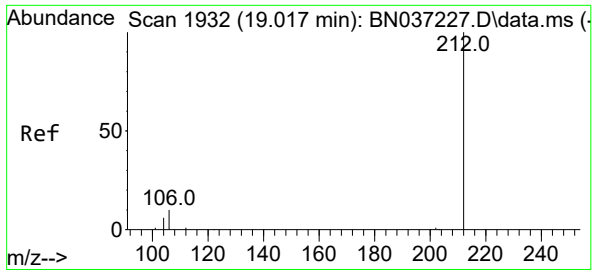
Lab File: BN037241.D

Acq: 14 Jun 2025 00:31

Tgt Ion:188 Resp: 2010

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.9	12.2	18.4

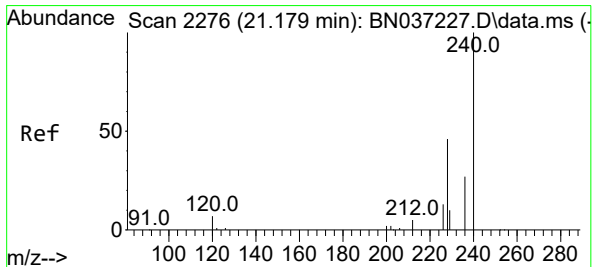
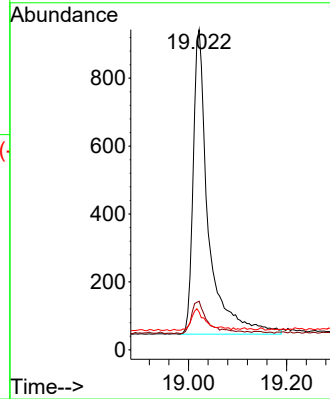
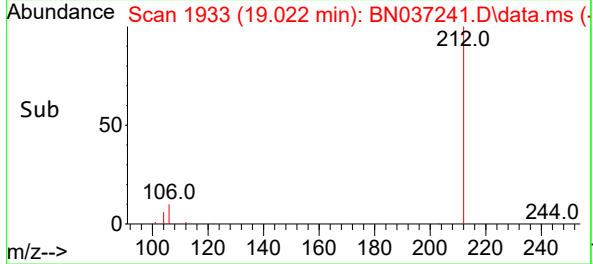
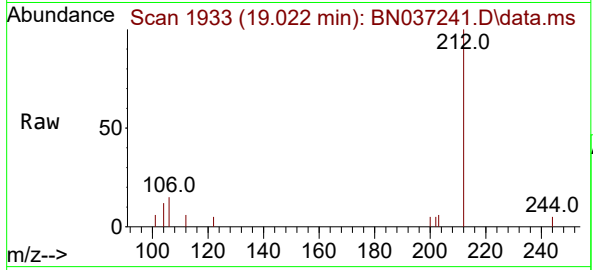




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.022 min Scan# 1933
Delta R.T. 0.005 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

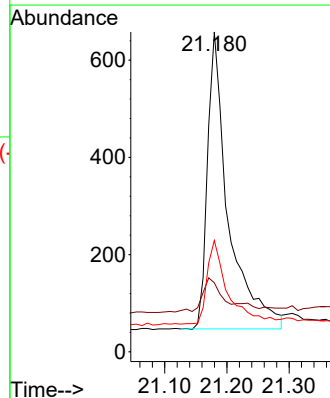
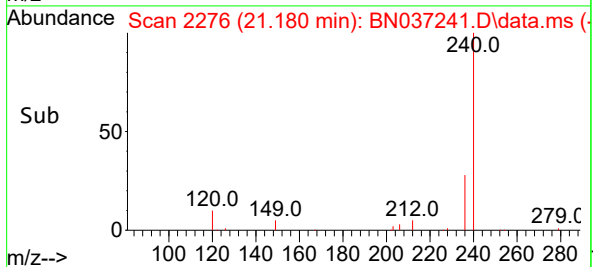
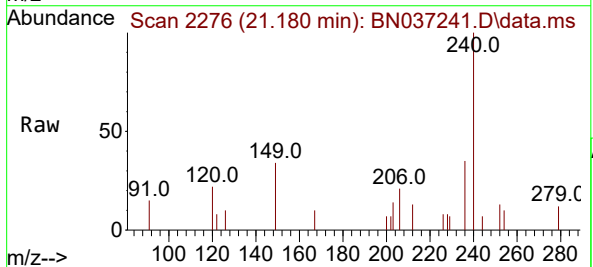
Instrument :
BNA_N
ClientSampleId :
PB168458BL

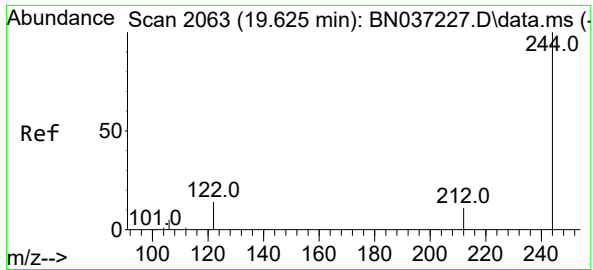
Tgt Ion:212 Resp: 1933
Ion Ratio Lower Upper
212 100
106 11.3 9.3 13.9
104 5.8 5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

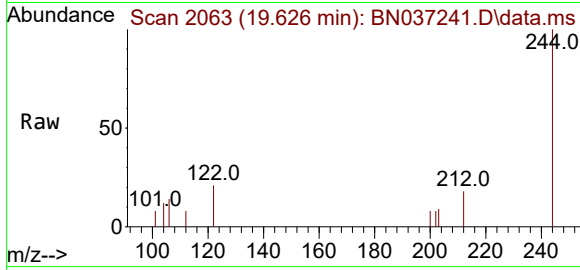
Tgt Ion:240 Resp: 1424
Ion Ratio Lower Upper
240 100
120 21.6 11.3 16.9#
236 34.8 24.4 36.6



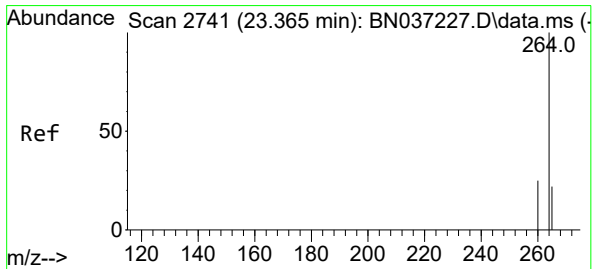
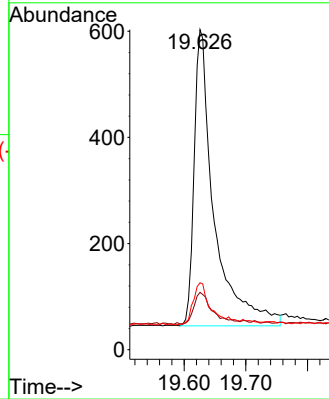


#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.626 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Instrument :
BNA_N
ClientSampleId :
PB168458BL

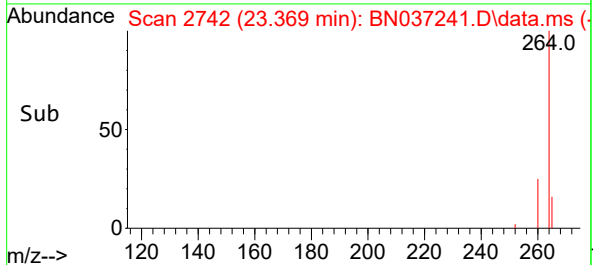
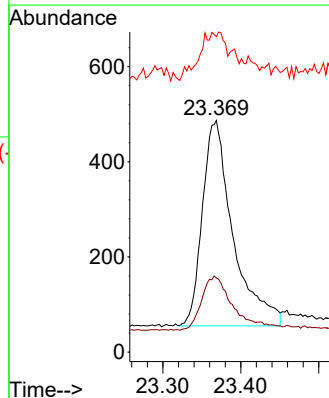
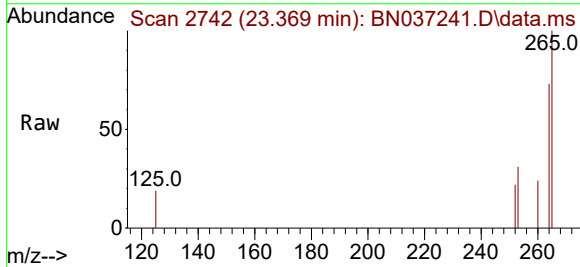


Tgt Ion:244 Resp: 1259
Ion Ratio Lower Upper
244 100
212 17.9 12.2 18.2
122 20.9 14.3 21.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.369 min Scan# 2742
Delta R.T. 0.003 min
Lab File: BN037241.D
Acq: 14 Jun 2025 00:31

Tgt Ion:264 Resp: 1183
Ion Ratio Lower Upper
264 100
260 32.0 22.8 34.2
265 136.1 66.4 99.6#



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:	PB168458BS	SDG No.:	Q2299
Lab Sample ID:	PB168458BS	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
BN037270.D	1	06/13/25 08:03	06/14/25 20:00	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	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		93%	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	1590	7.575				
1146-65-2	Naphthalene-d8	3910	10.351				
15067-26-2	Acenaphthene-d10	1940	14.224				
1517-22-2	Phenanthrene-d10	3410	16.971				
1719-03-5	Chrysene-d12	2500	21.171				
1520-96-3	Perylene-d12	2300	23.36				

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\BN061325\
 Data File : BN037270.D
 Acq On : 14 Jun 2025 20:00
 Operator : RC/JU
 Sample : PB168458BS
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168458BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 16 02:44:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1588	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3911	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1944	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3410	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2495	0.400	ng	0.00
35) Perylene-d12	23.360	264	2298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1318	0.338	ng	0.00
5) Phenol-d6	6.759	99	1473	0.358	ng	0.00
8) Nitrobenzene-d5	8.717	82	1391	0.360	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	2152m	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	247	0.306	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3044	0.373	ng	0.00
27) Fluoranthene-d10	19.012	212	3035	0.340	ng	0.00
31) Terphenyl-d14	19.621	244	2131	0.378	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	779	0.358	ng	# 35
3) n-Nitrosodimethylamine	3.415	42	1716	0.346	ng	# 98
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.367	ng	97
9) Naphthalene	10.404	128	3863	0.341	ng	99
10) Hexachlorobutadiene	10.692	225	984	0.357	ng	# 96
12) 2-Methylnaphthalene	12.026	142	2180	0.317	ng	99
16) Acenaphthylene	13.935	152	3608	0.379	ng	99
17) Acenaphthene	14.288	154	2128	0.346	ng	99
18) Fluorene	15.282	166	2799	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	248	0.394	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	830	0.374	ng	# 84
22) Hexachlorobenzene	16.289	284	927	0.360	ng	98
23) Atrazine	16.450	200	760	0.383	ng	94
24) Pentachlorophenol	16.636	266	252	0.200	ng	94
25) Phenanthrene	17.009	178	3936	0.364	ng	99
26) Anthracene	17.108	178	3696	0.373	ng	99
28) Fluoranthene	19.040	202	4192	0.331	ng	98
30) Pyrene	19.407	202	4321	0.368	ng	100
32) Benzo(a)anthracene	21.153	228	3158	0.375	ng	99
33) Chrysene	21.206	228	3873	0.369	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2339	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.544	276	3705	0.400	ng	100
37) Benzo(b)fluoranthene	22.705	252	3140	0.374	ng	98
38) Benzo(k)fluoranthene	22.749	252	3614	0.372	ng	99
39) Benzo(a)pyrene	23.260	252	3030	0.401	ng	98
40) Dibenzo(a,h)anthracene	25.558	278	2809	0.398	ng	96
41) Benzo(g,h,i)perylene	26.210	276	3183	0.370	ng	99

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

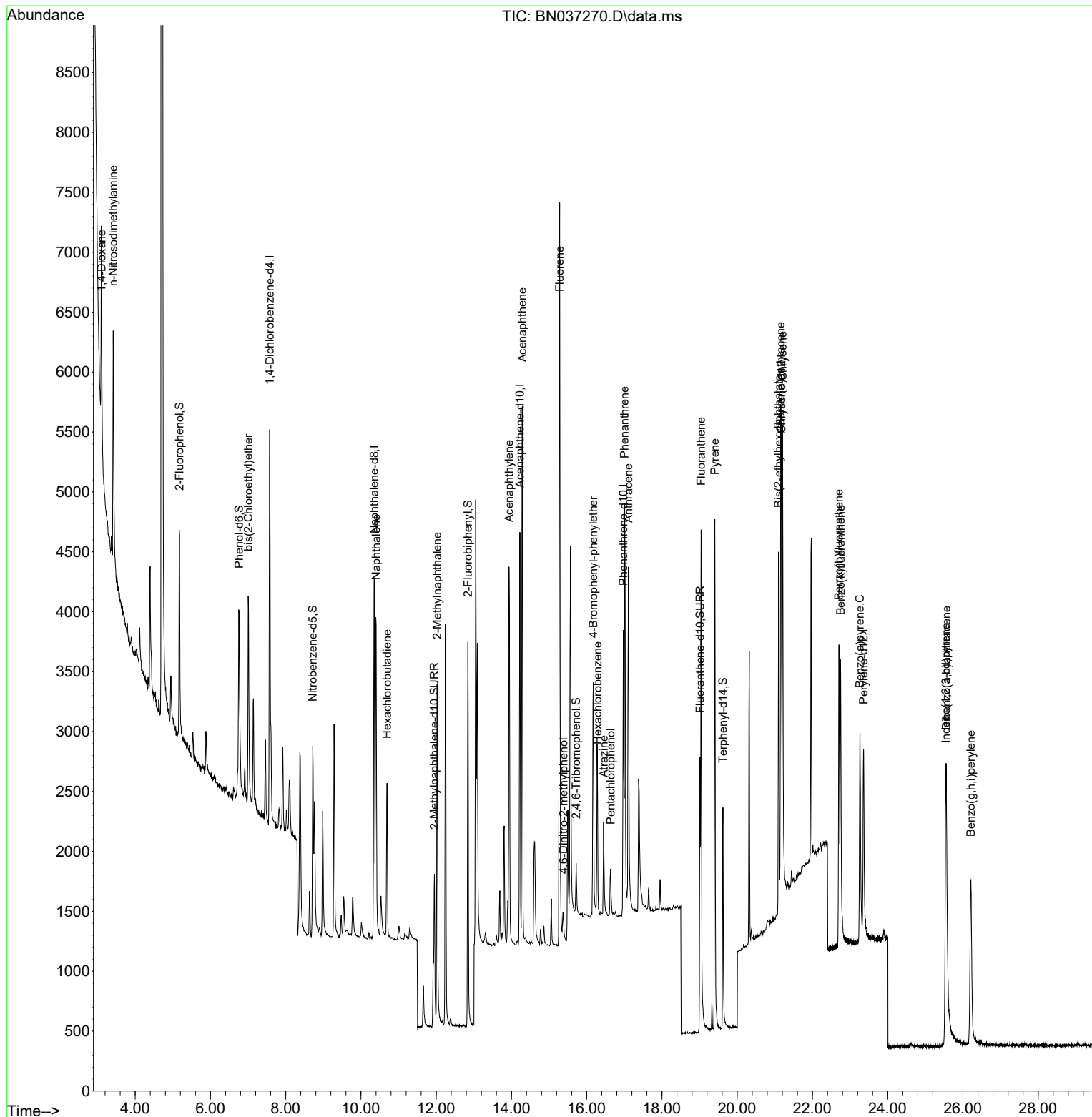
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Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

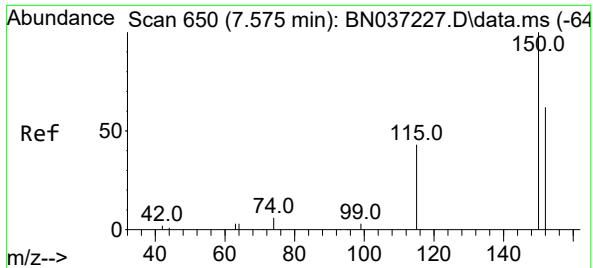
Instrument :
BNA_N
ClientSampleId :
PB168458BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

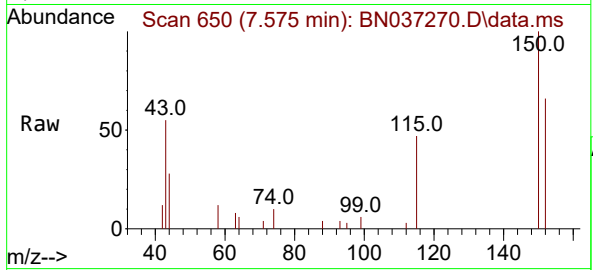
Quant Time: Jun 16 02:44:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

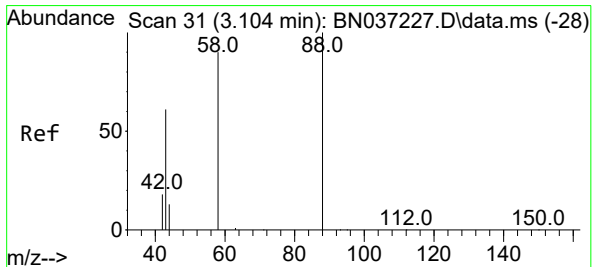
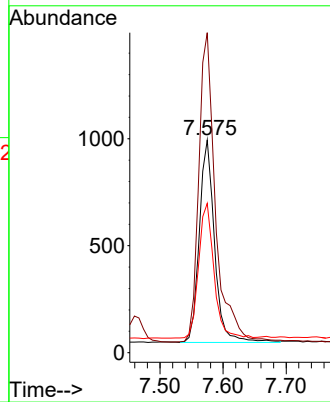
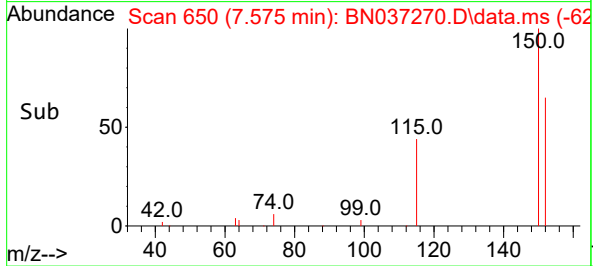
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion: 152 Resp: 1588
Ion Ratio Lower Upper
152 100
150 150.5 125.2 187.8
115 70.2 58.4 87.6

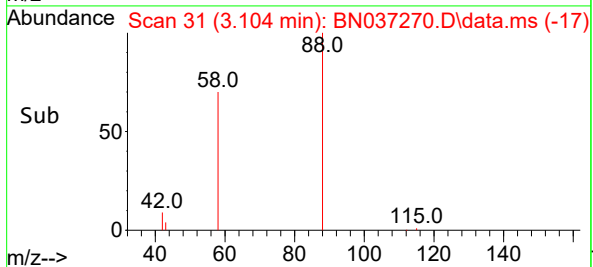
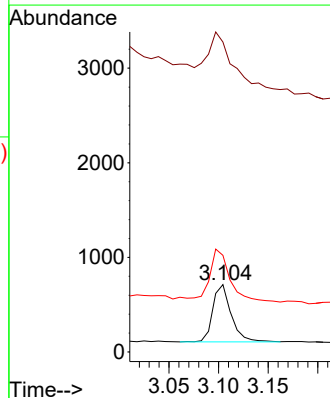
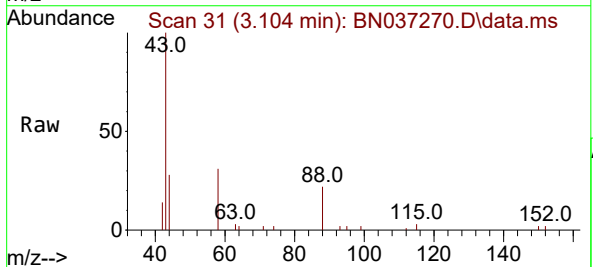
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

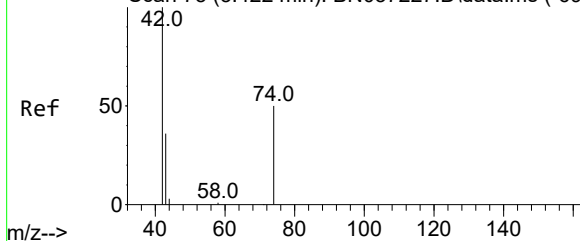


#2
1,4-Dioxane
Concen: 0.358 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 88 Resp: 779
Ion Ratio Lower Upper
88 100
43 177.2 52.6 79.0#
58 103.1 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.346 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

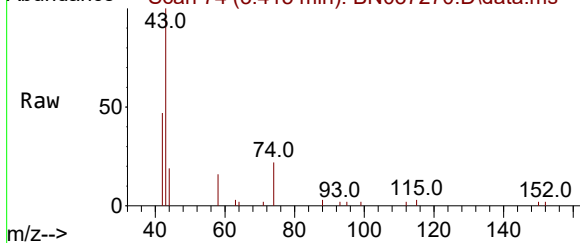
Instrument :

BNA_N

ClientSampleId :

PB168458BS

Abundance Scan 74 (3.415 min): BN037270.D\data.ms



Tgt Ion: 42 Resp: 1710

Ion Ratio Lower Upper

42 100

74 54.8 44.6 66.8

44 7.2 3.5 5.3

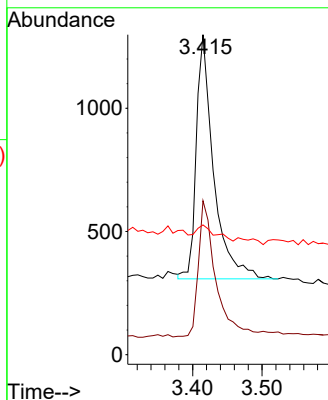
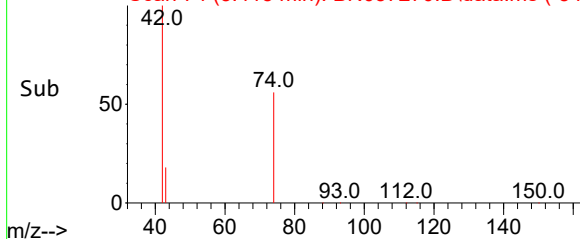
Manual Integrations

APPROVED

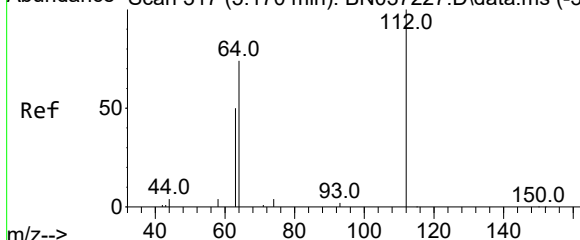
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 74 (3.415 min): BN037270.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.338 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Tgt Ion:112 Resp: 1318

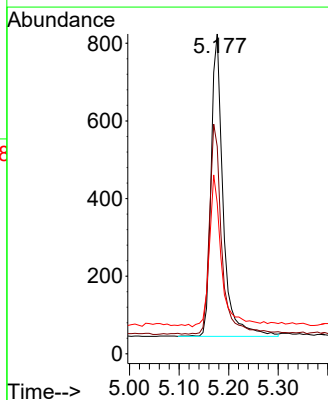
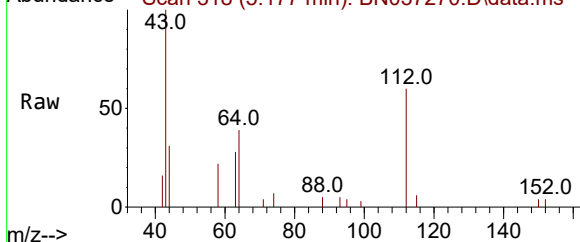
Ion Ratio Lower Upper

112 100

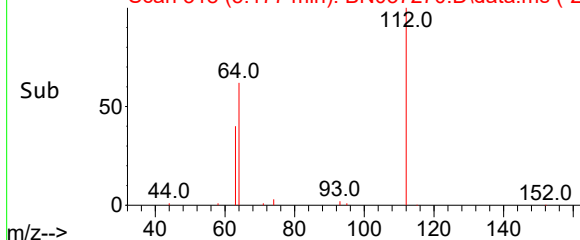
64 70.6 57.2 85.8

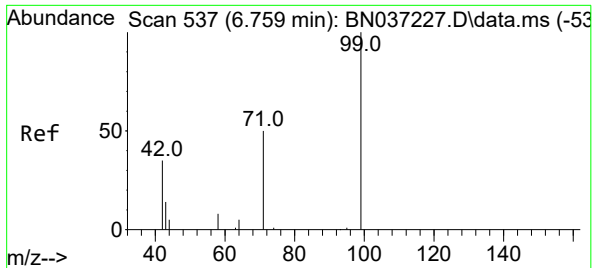
63 50.7 39.8 59.6

Abundance Scan 318 (5.177 min): BN037270.D\data.ms



Abundance Scan 318 (5.177 min): BN037270.D\data.ms (-28)





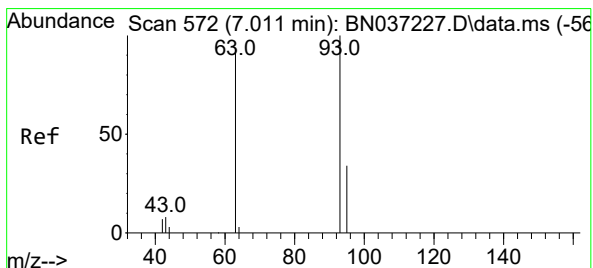
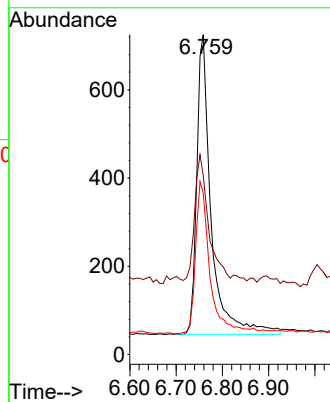
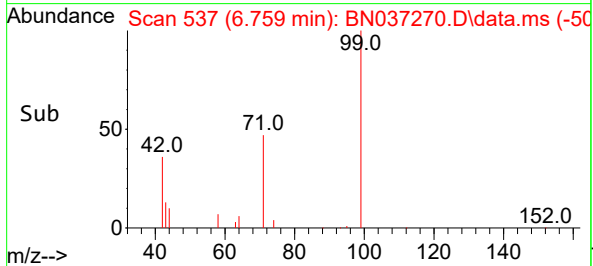
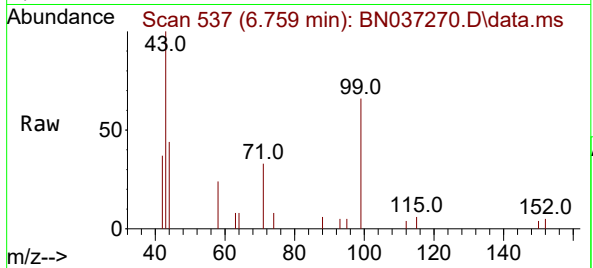
#5
Phenol-d6
Concen: 0.358 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion: 99 Resp: 147
Ion Ratio Lower Upper
99 100
42 40.4 36.2 54.4
71 51.6 42.4 63.6

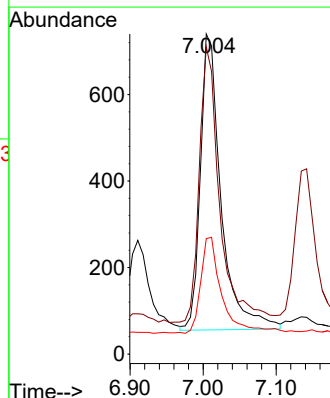
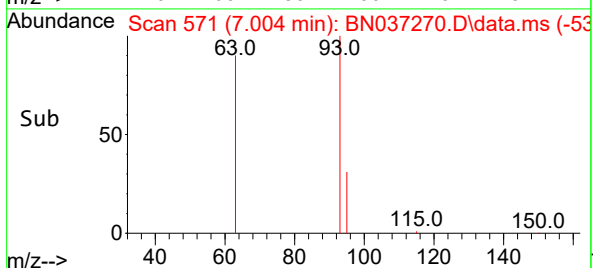
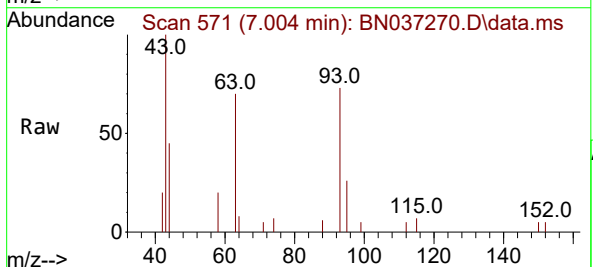
Manual Integrations
APPROVED

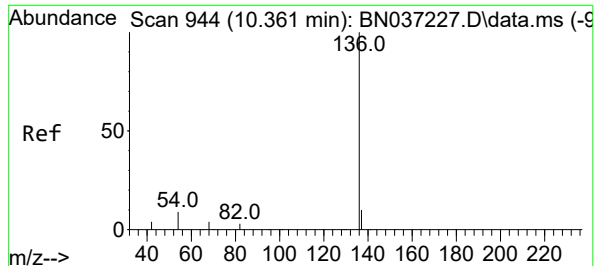
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

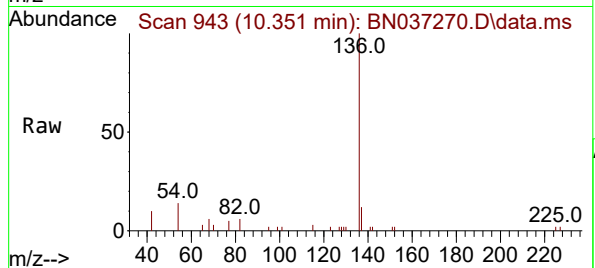
Tgt Ion: 93 Resp: 1351
Ion Ratio Lower Upper
93 100
63 91.2 75.2 112.8
95 32.8 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

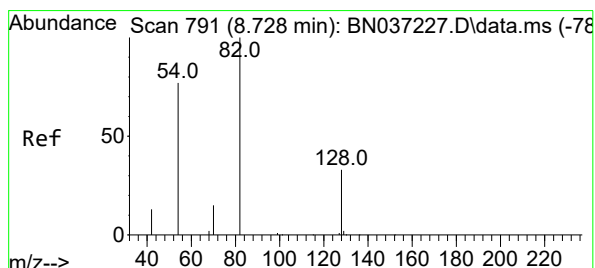
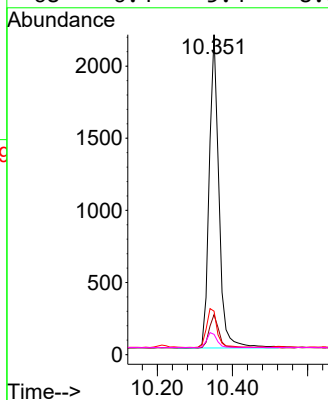
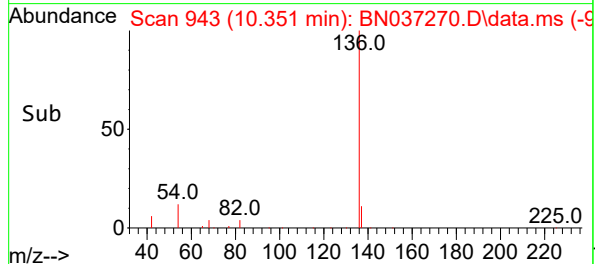
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:136 Resp: 391
Ion Ratio Lower Upper
136 100
137 12.5 10.6 15.8
54 13.6 9.2 13.8
68 6.4 5.4 8.0

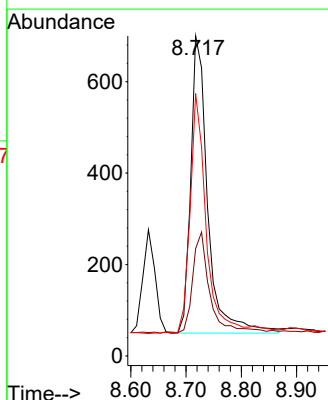
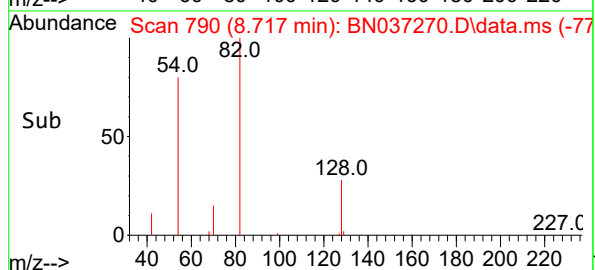
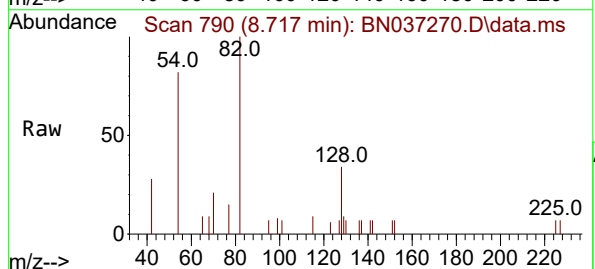
Manual Integrations
APPROVED

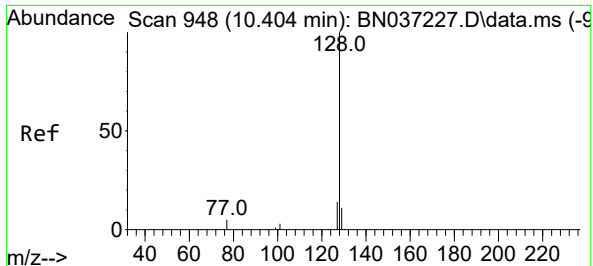
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 82 Resp: 1391
Ion Ratio Lower Upper
82 100
128 33.6 31.2 46.8
54 82.0 63.3 94.9





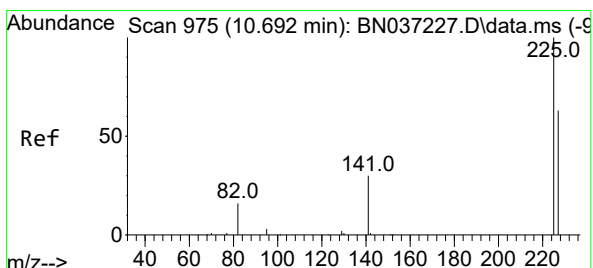
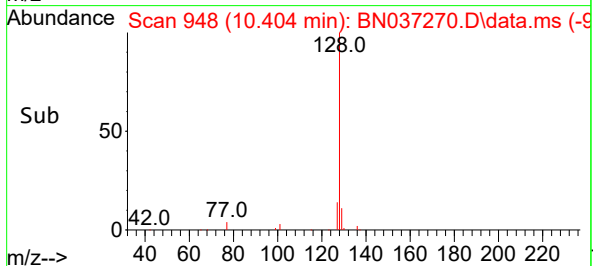
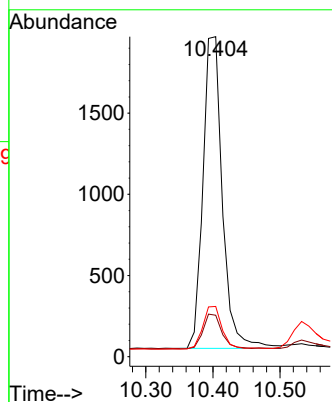
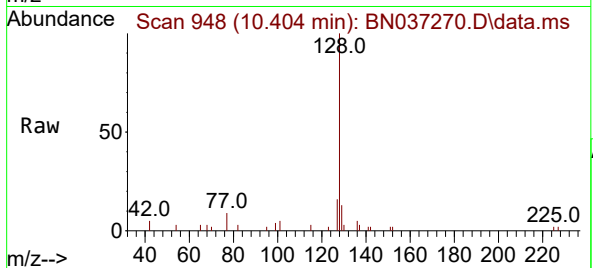
#9
Naphthalene
Concen: 0.341 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:128 Resp: 386
Ion Ratio Lower Upper
128 100
129 12.9 10.7 16.1
127 15.7 12.6 19.0

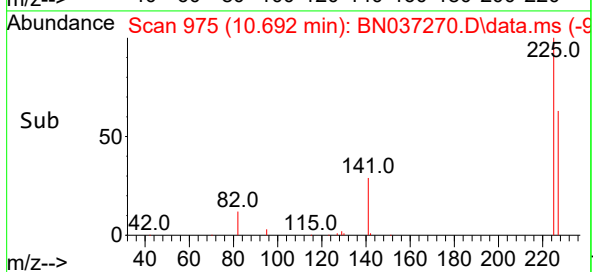
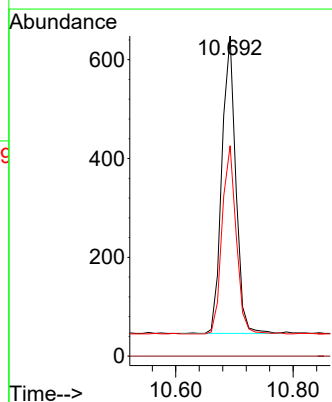
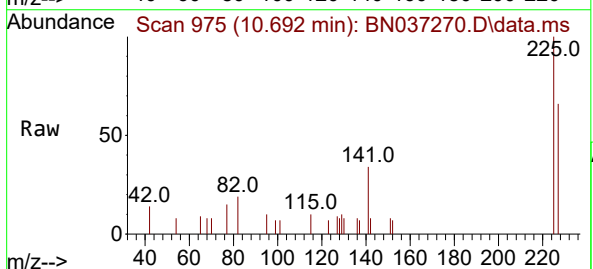
Manual Integrations
APPROVED

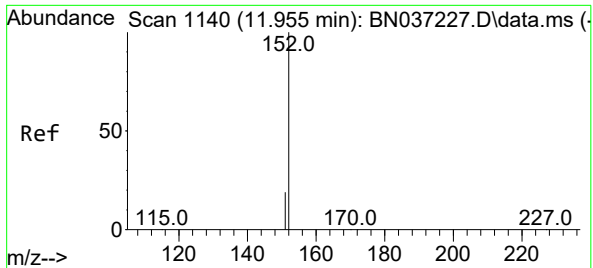
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

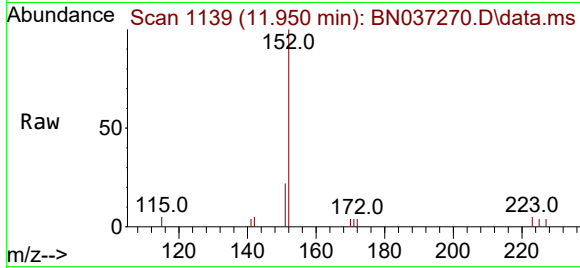
Tgt Ion:225 Resp: 984
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.410 ng m
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

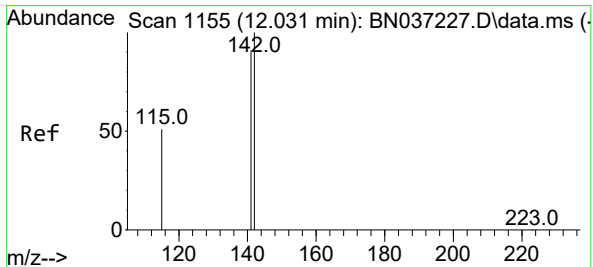
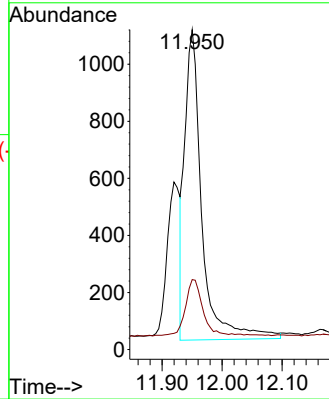
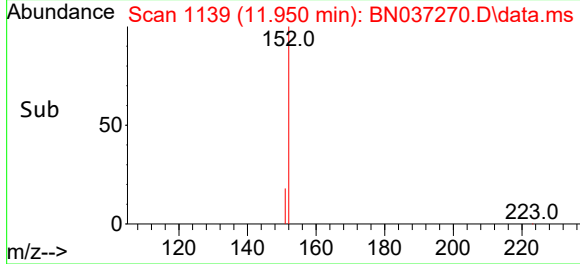
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:152 Resp: 2152
Ion Ratio Lower Upper
152 100
151 18.4 17.9 26.9

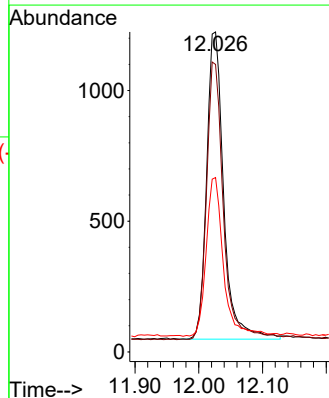
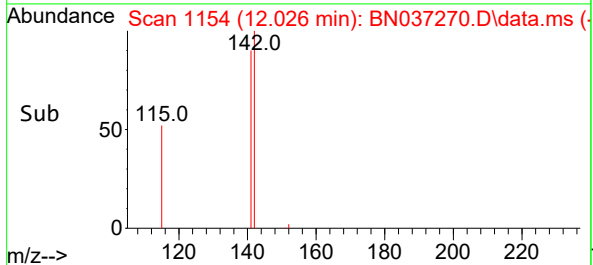
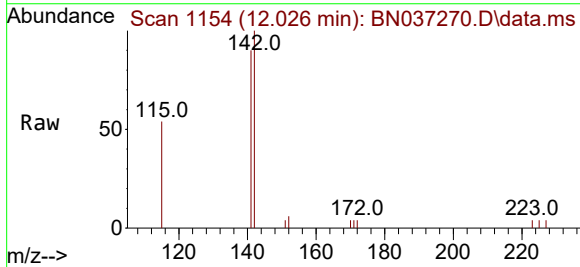
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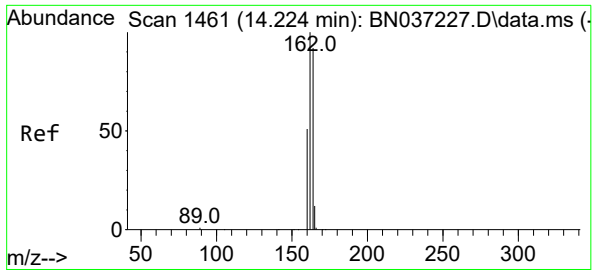
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

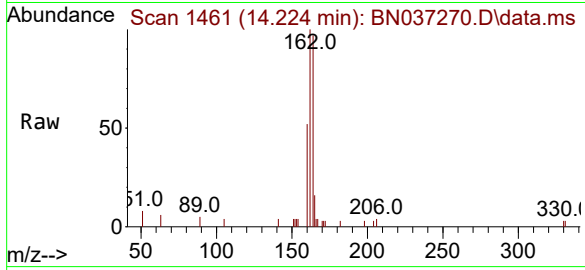
Tgt Ion:142 Resp: 2180
Ion Ratio Lower Upper
142 100
141 89.9 73.0 109.6
115 54.5 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

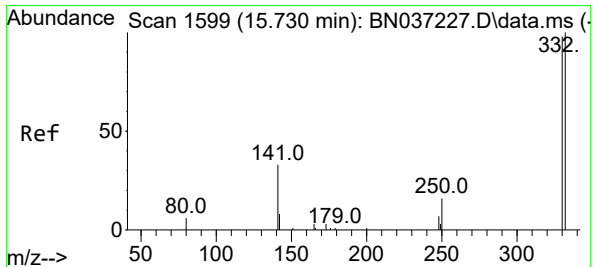
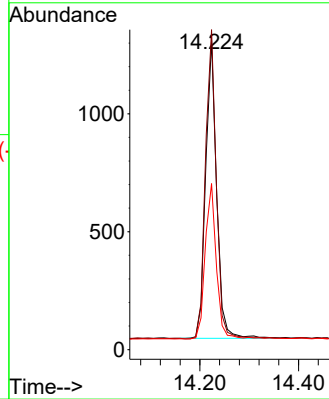
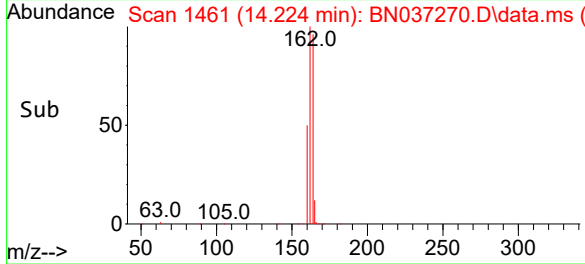
Instrument :
BNA_N
ClientSampleId :
PB168458BS



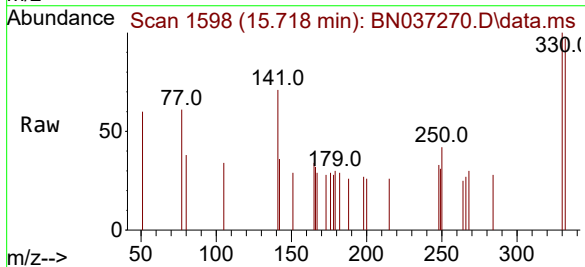
Tgt Ion:164 Resp: 1944
Ion Ratio Lower Upper
164 100
162 103.5 86.7 130.1
160 53.7 45.8 68.6

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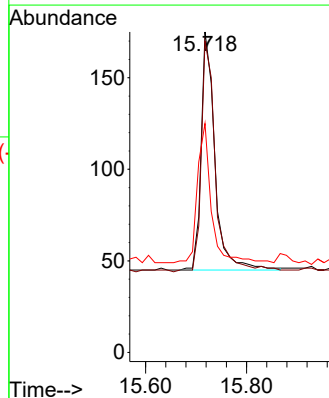
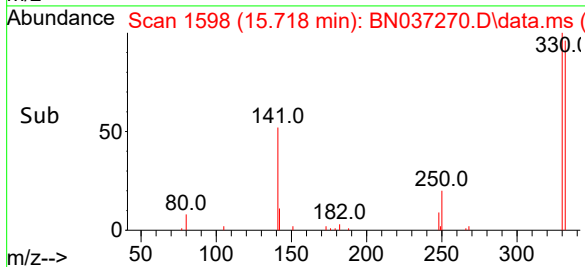
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

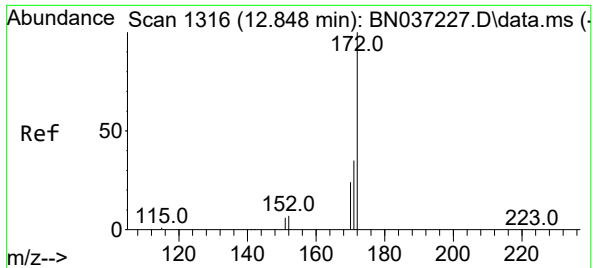


#14
2,4,6-Tribromophenol
Concen: 0.306 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00



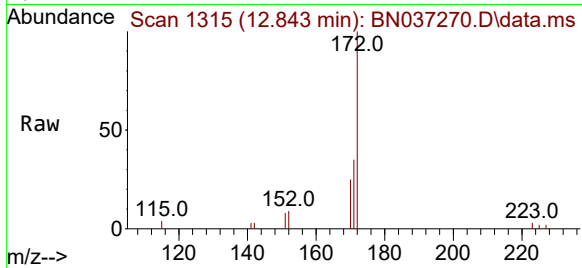
Tgt Ion:330 Resp: 247
Ion Ratio Lower Upper
330 100
332 100.8 74.9 112.3
141 57.9 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

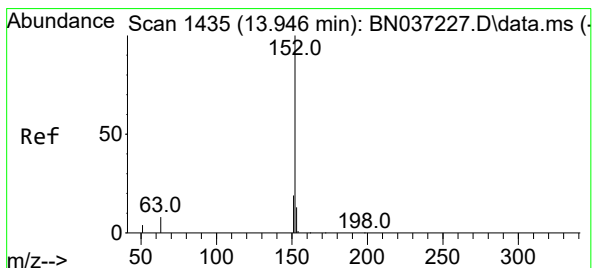
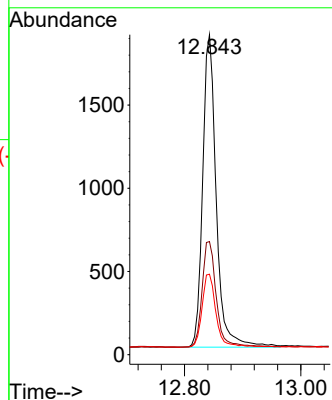
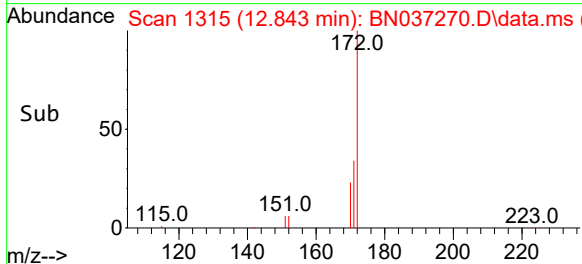
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:172 Resp: 3044
Ion Ratio Lower Upper
172 100
171 35.4 29.8 44.8
170 25.1 21.1 31.7

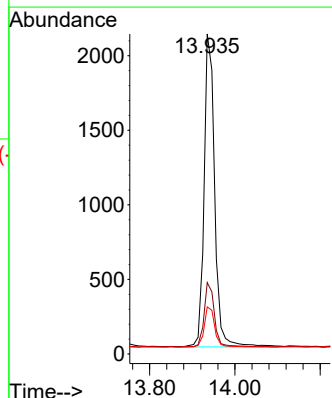
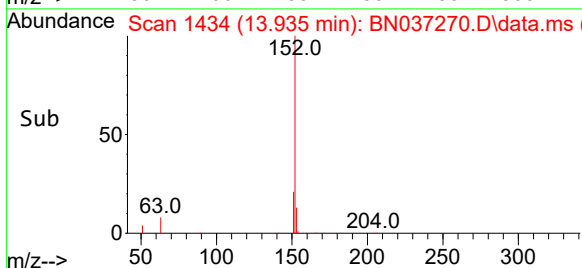
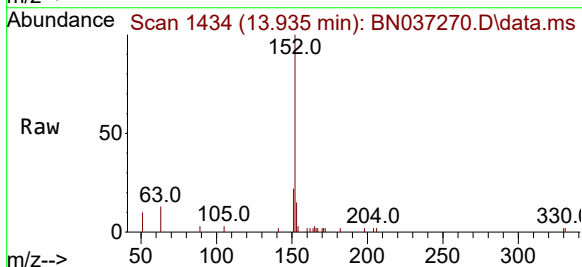
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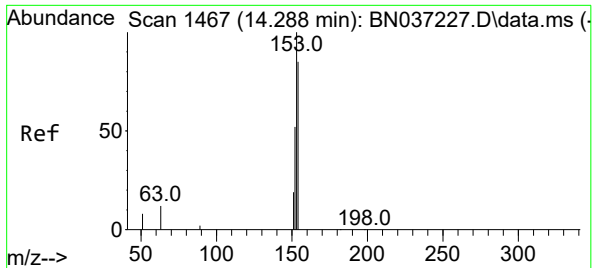
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

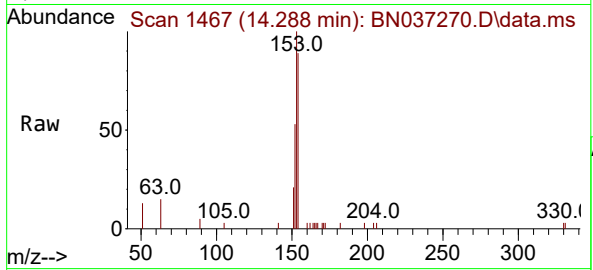
Tgt Ion:152 Resp: 3608
Ion Ratio Lower Upper
152 100
151 19.7 15.7 23.5
153 12.9 10.7 16.1





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

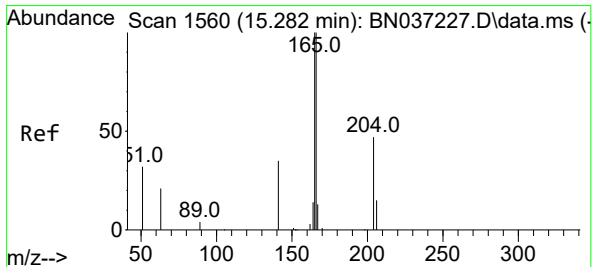
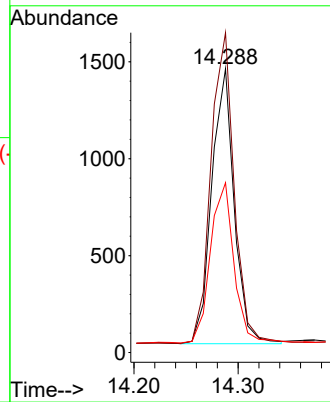
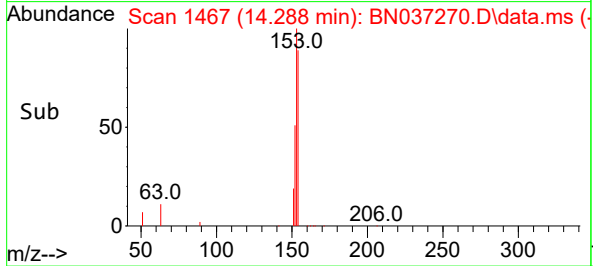
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:154 Resp: 2128
Ion Ratio Lower Upper
154 100
153 116.9 94.6 141.8
152 61.9 49.6 74.4

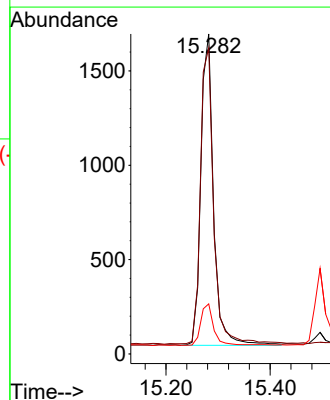
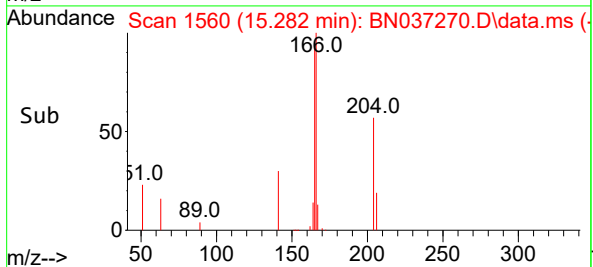
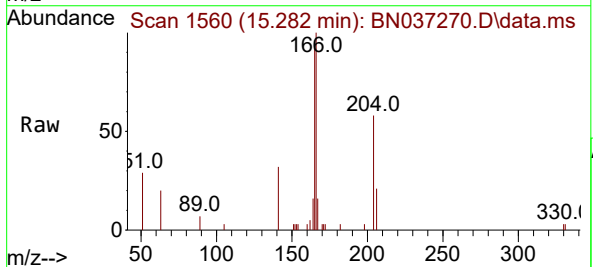
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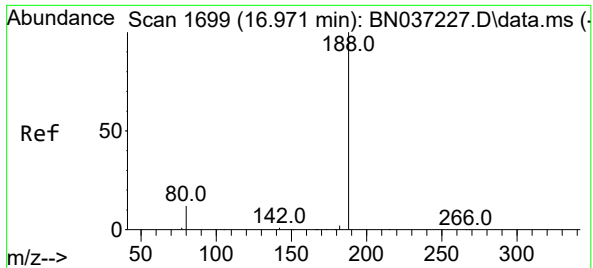
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.354 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:166 Resp: 2799
Ion Ratio Lower Upper
166 100
165 98.9 79.8 119.6
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

Tgt Ion:188 Resp: 3410

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

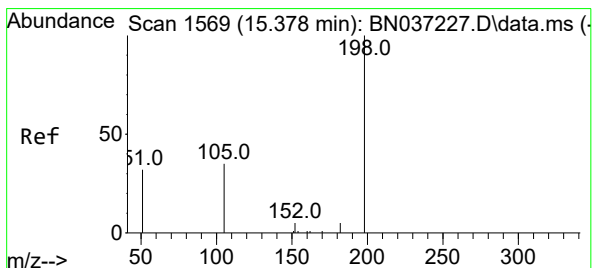
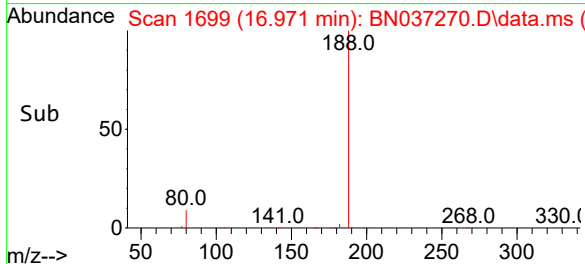
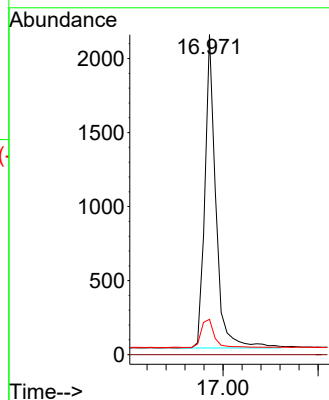
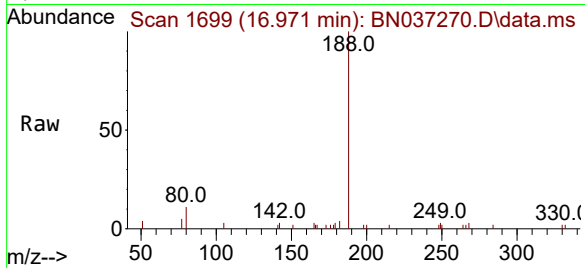
80 11.1 12.2 18.4

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.394 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

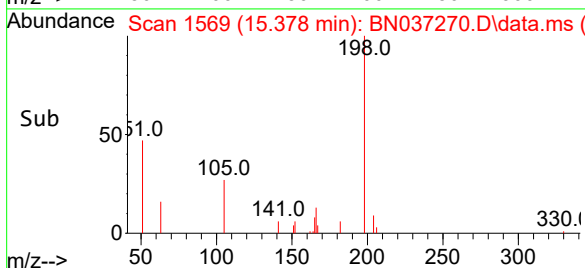
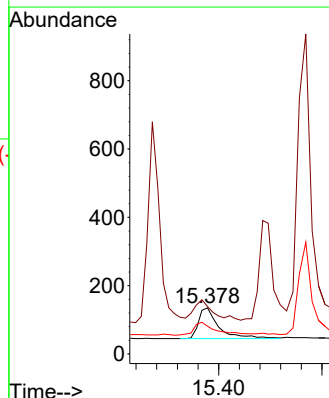
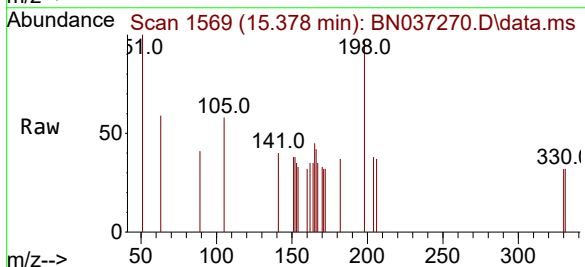
Tgt Ion:198 Resp: 248

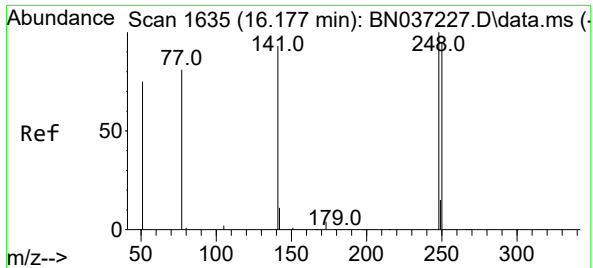
Ion Ratio Lower Upper

198 100

51 103.0 111.2 166.8#

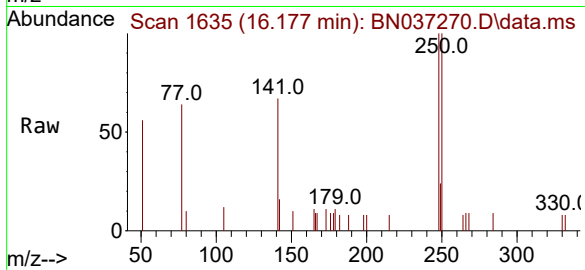
105 60.0 54.0 81.0





#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

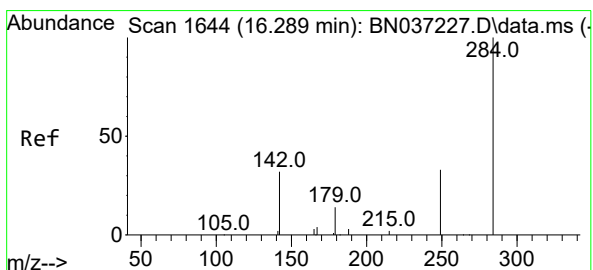
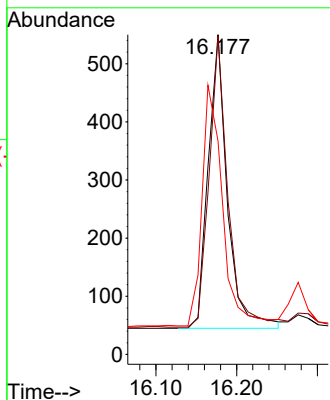
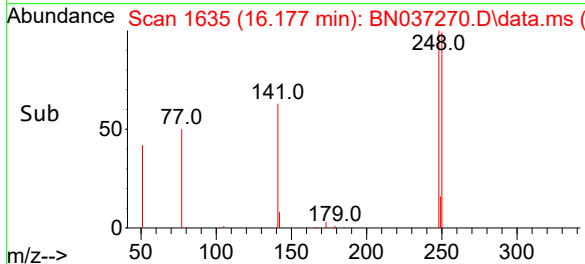
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:248 Resp: 830
Ion Ratio Lower Upper
248 100
250 99.6 76.8 115.2
141 66.7 75.6 113.4

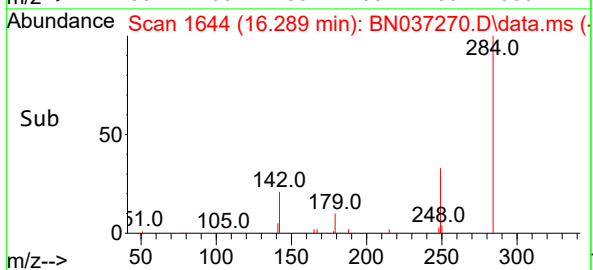
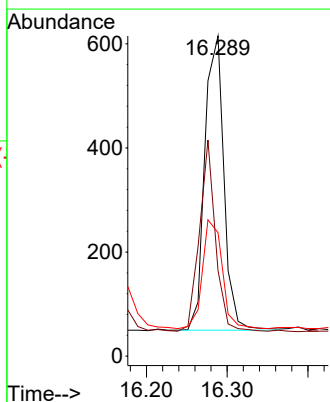
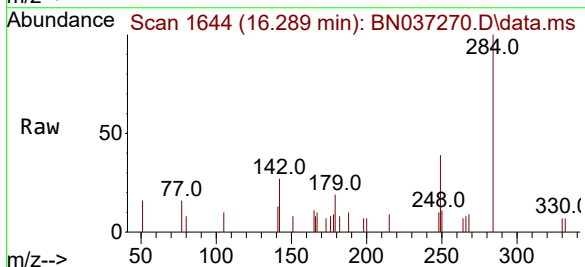
Manual Integrations
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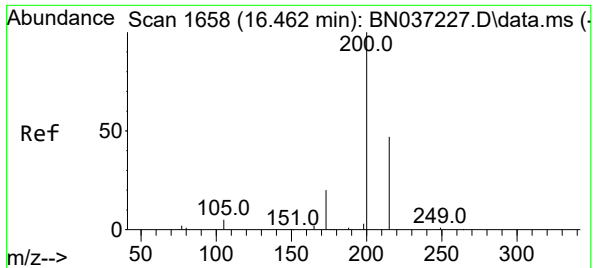
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:284 Resp: 927
Ion Ratio Lower Upper
284 100
142 54.5 43.8 65.6
249 38.4 28.4 42.6





#23

Atrazine

Concen: 0.383 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

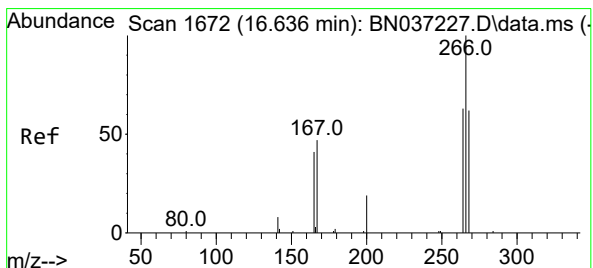
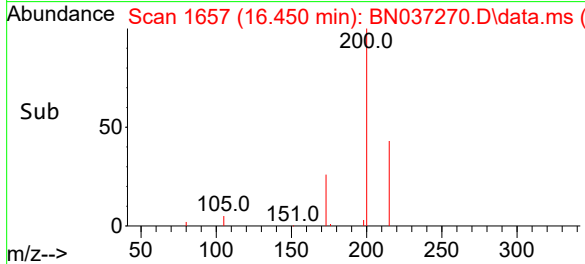
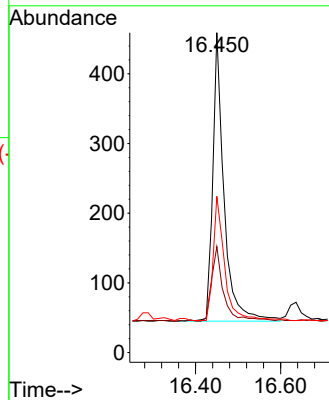
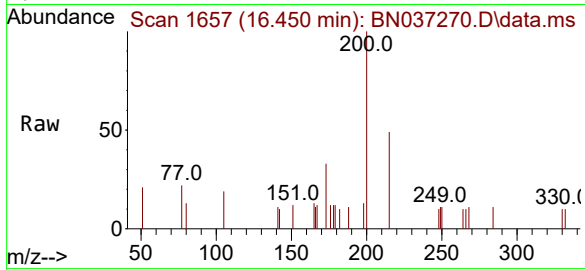
PB168458BS

Tgt Ion:	200	Resp:	760
Ion Ratio	Lower	Upper	
200	100		
173	33.1	25.1	37.7
215	48.8	43.7	65.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025



#24

Pentachlorophenol

Concen: 0.200 ng

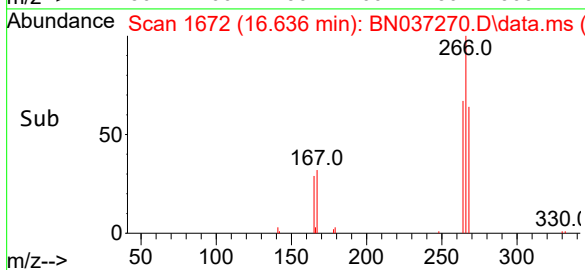
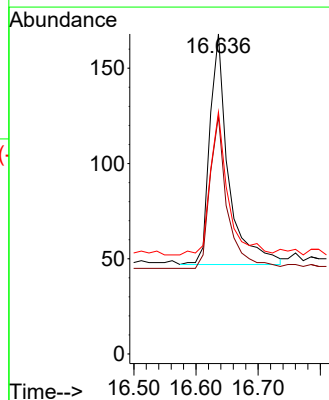
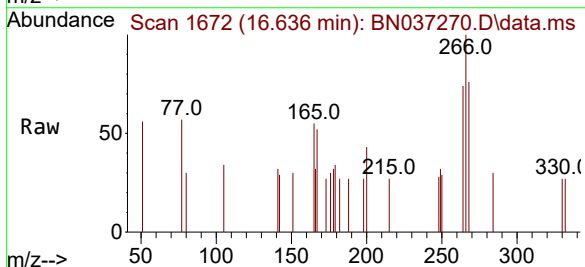
RT: 16.636 min Scan# 1672

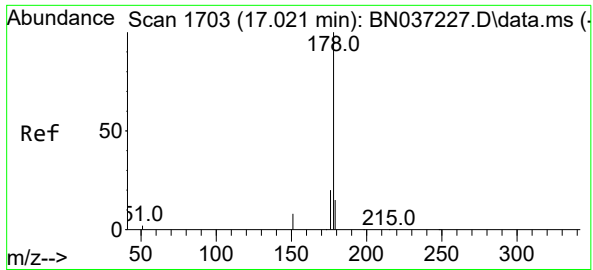
Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

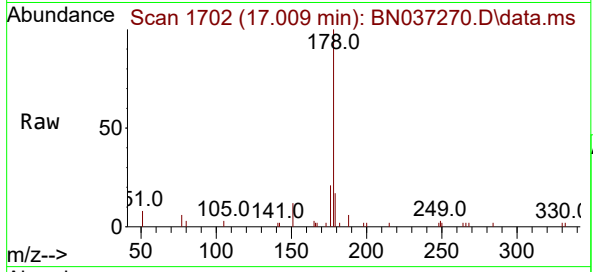
Tgt Ion:	266	Resp:	252
Ion Ratio	Lower	Upper	
266	100		
264	61.9	49.2	73.8
268	58.7	53.4	80.2





#25
Phenanthrene
Concen: 0.364 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

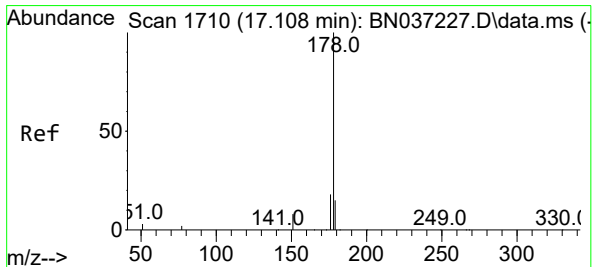
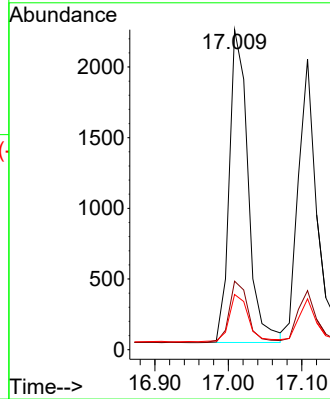
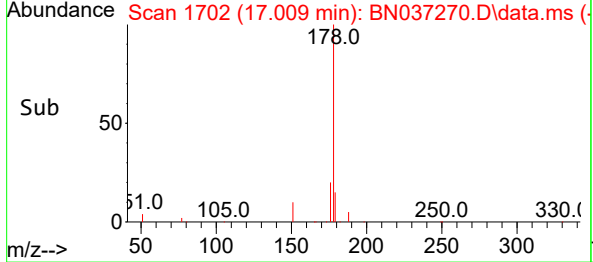
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:178 Resp: 3930
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.9 12.6 18.8

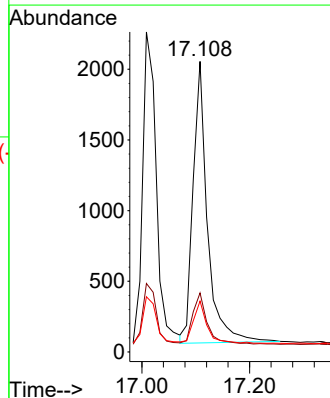
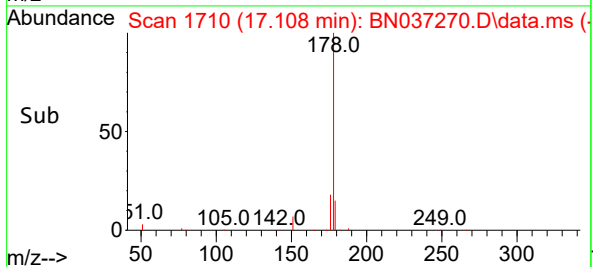
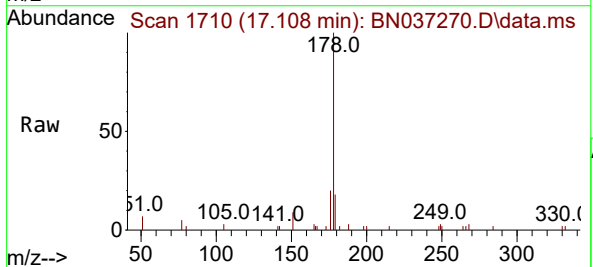
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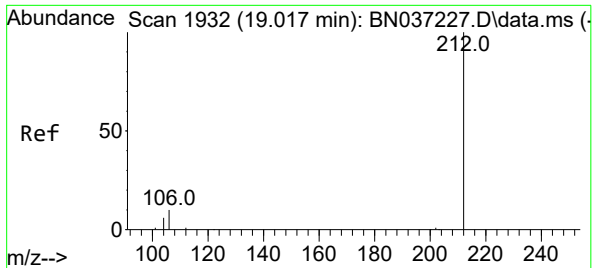
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.373 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:178 Resp: 3696
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 14.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.340 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

Tgt Ion:212 Resp: 303

Ion Ratio Lower Upper

212 100

106 10.8 9.3 13.9

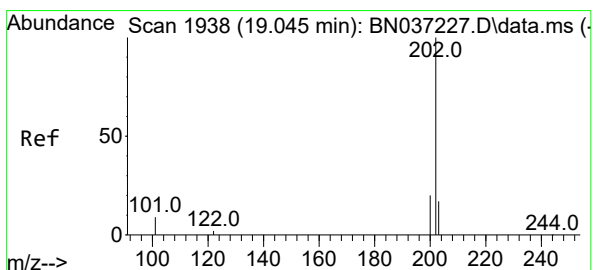
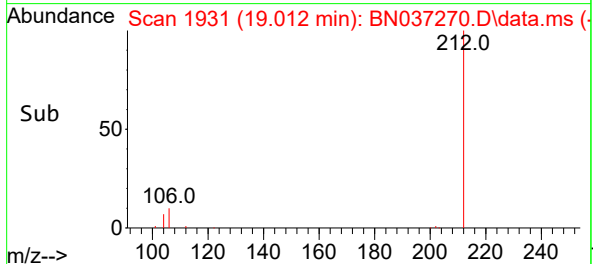
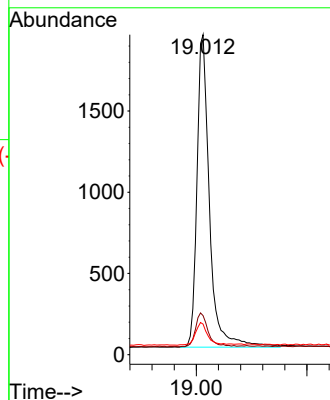
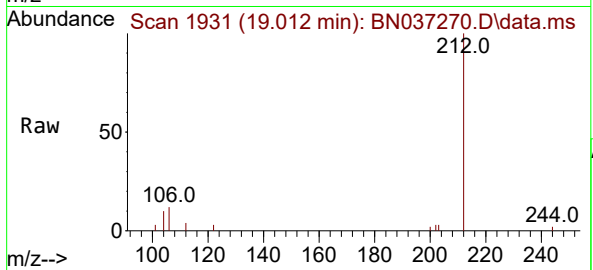
104 7.3 5.7 8.5

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.331 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

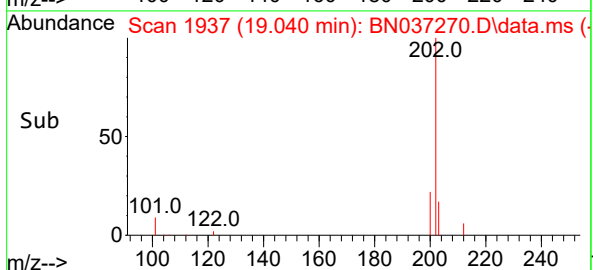
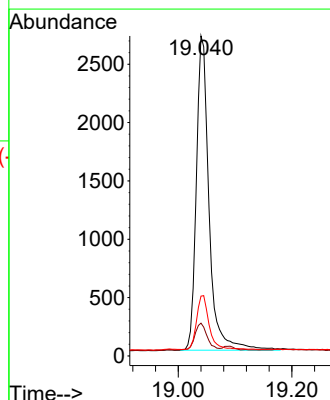
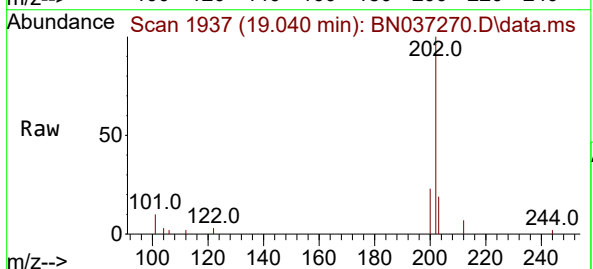
Tgt Ion:202 Resp: 4192

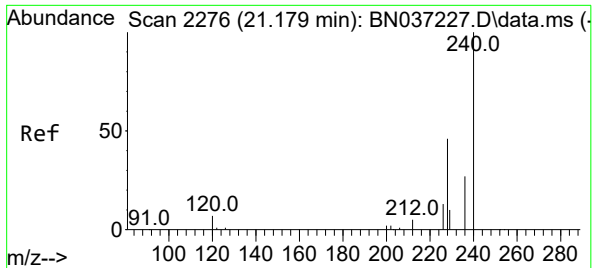
Ion Ratio Lower Upper

202 100

101 8.3 7.1 10.7

203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037270.D

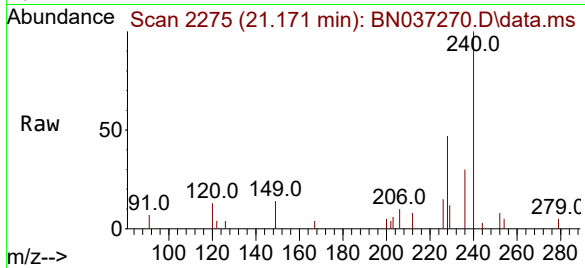
Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS



Tgt Ion:240 Resp: 249

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

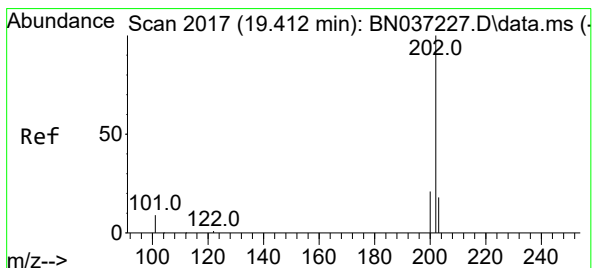
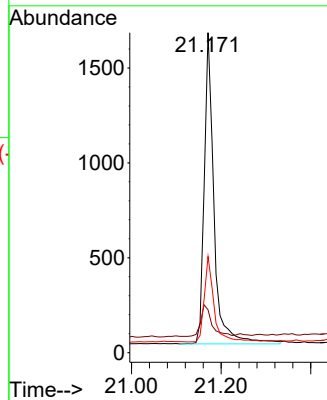
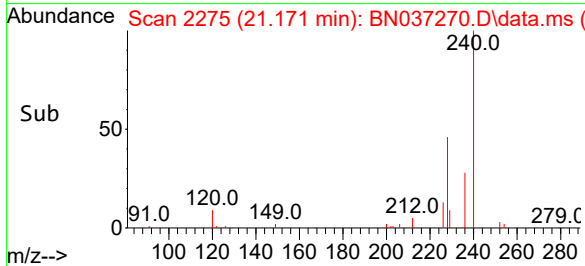
236 30.0 24.4 36.6

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

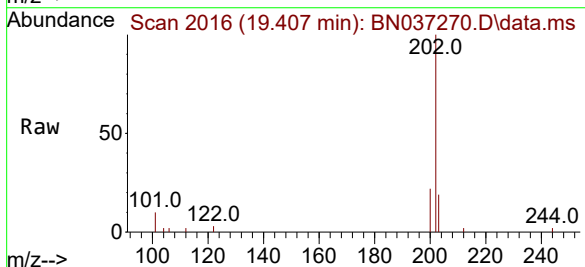
Concen: 0.368 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00



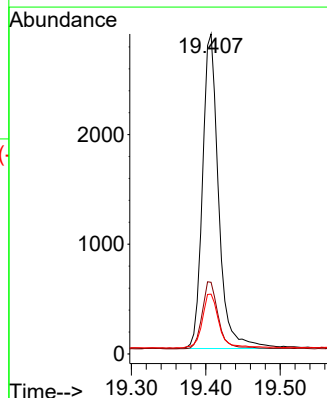
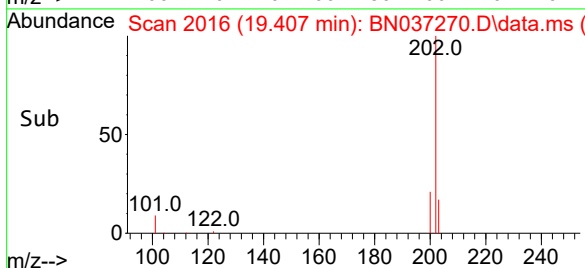
Tgt Ion:202 Resp: 4321

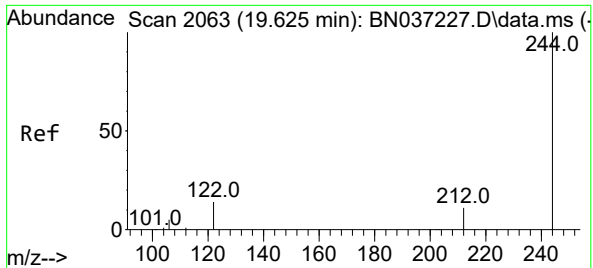
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 18.0 14.3 21.5





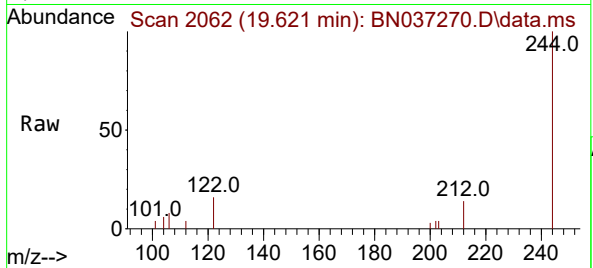
#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

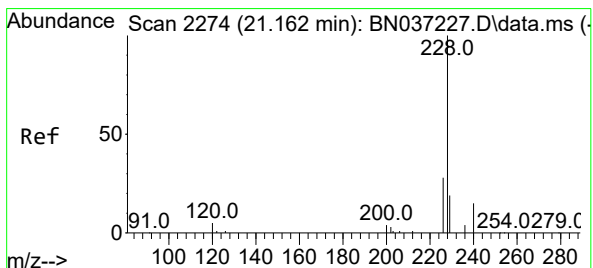
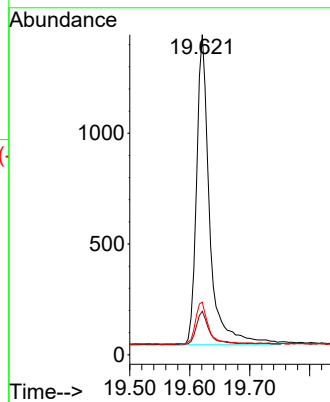
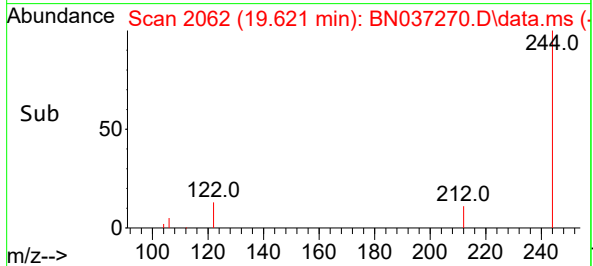


Tgt Ion:244 Resp: 213
Ion Ratio Lower Upper
244 100
212 13.6 12.2 18.2
122 16.4 14.3 21.5

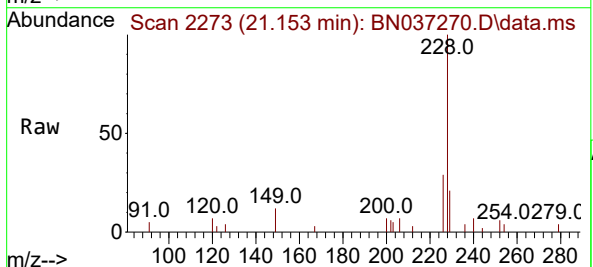
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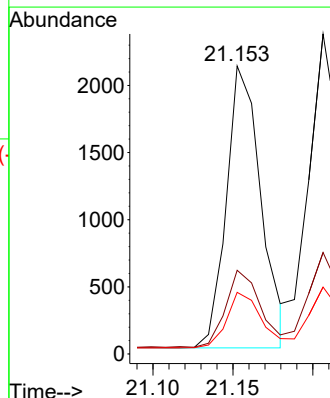
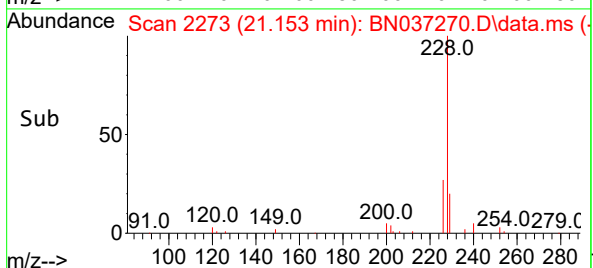
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

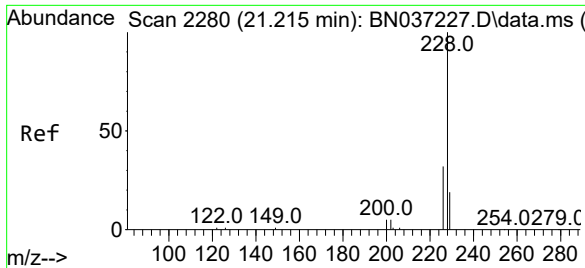


#32
Benzo(a)anthracene
Concen: 0.375 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00



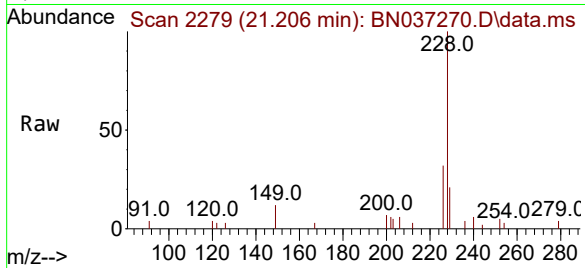
Tgt Ion:228 Resp: 3158
Ion Ratio Lower Upper
228 100
226 29.1 23.8 35.8
229 21.4 17.0 25.4





#33
Chrysene
Concen: 0.369 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

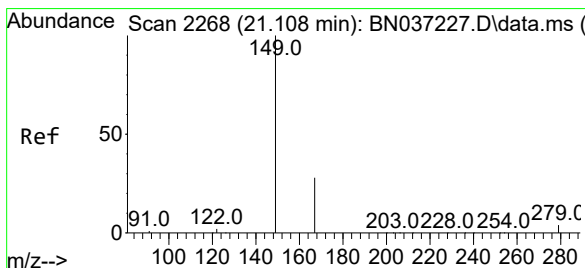
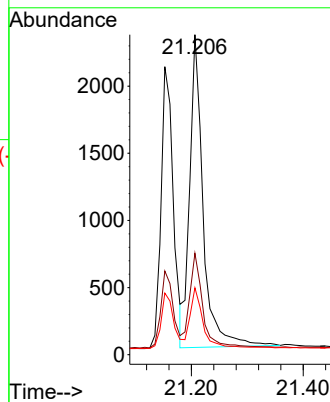
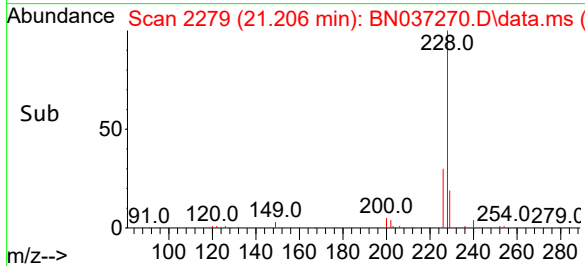
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:228 Resp: 387
Ion Ratio Lower Upper
228 100
226 31.7 25.8 38.6
229 20.9 17.0 25.4

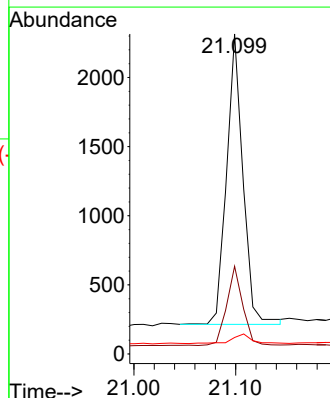
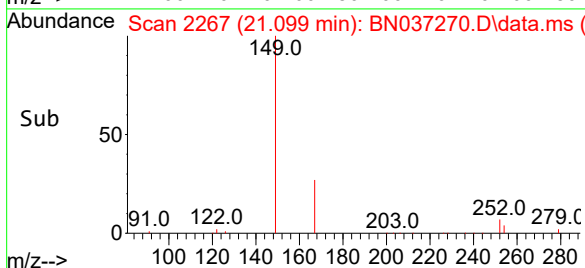
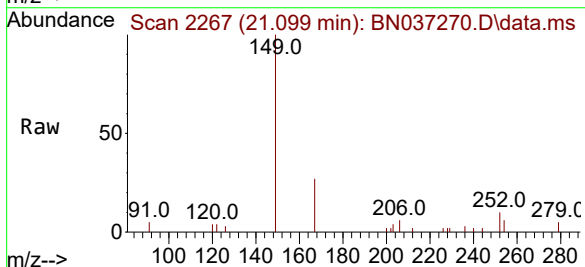
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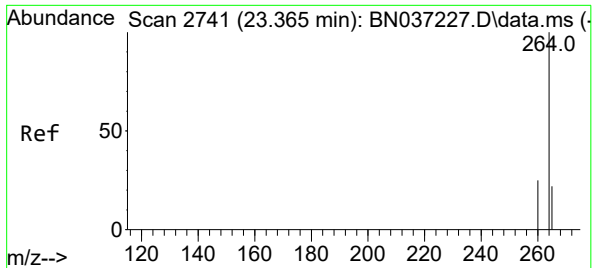
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.373 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

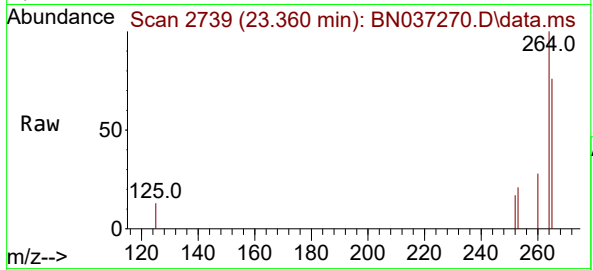
Tgt Ion:149 Resp: 2339
Ion Ratio Lower Upper
149 100
167 26.5 21.3 31.9
279 3.8 3.3 4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

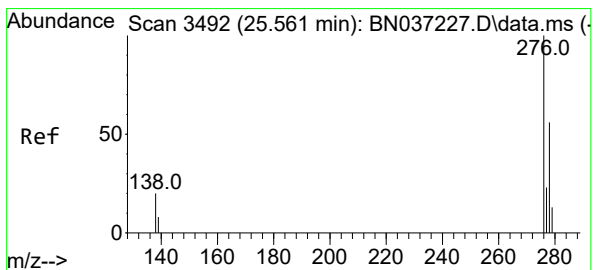
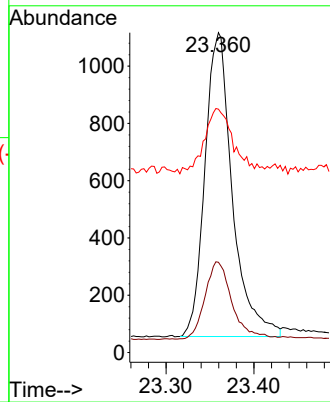
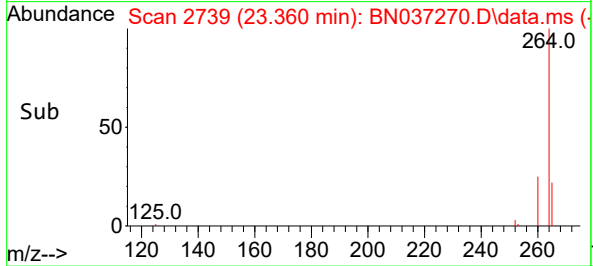
Instrument :
BNA_N
ClientSampleId :
PB168458BS



Tgt Ion:264 Resp: 2298
Ion Ratio Lower Upper
264 100
260 28.2 22.8 34.2
265 76.1 66.4 99.6

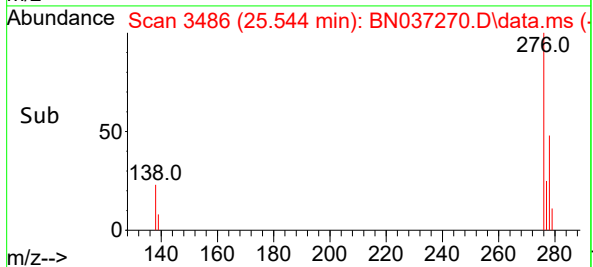
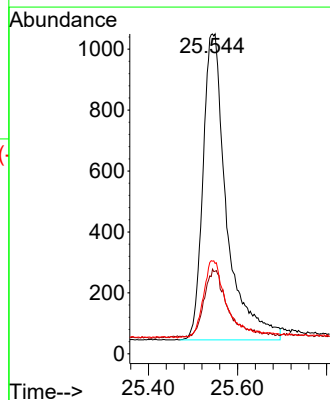
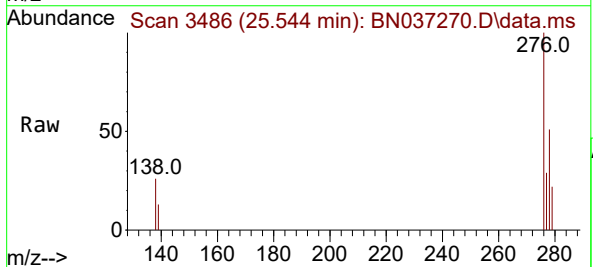
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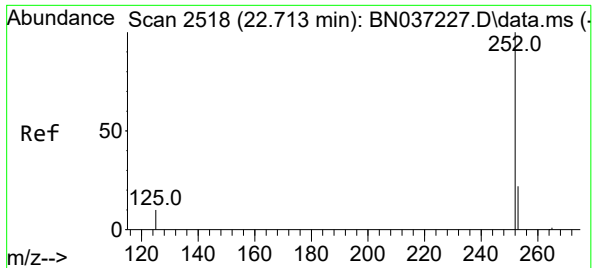
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.544 min Scan# 3486
Delta R.T. -0.017 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:276 Resp: 3705
Ion Ratio Lower Upper
276 100
138 21.3 16.8 25.2
277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

Tgt Ion:252 Resp: 3140

Ion Ratio Lower Upper

252 100

253 29.2 24.9 37.3

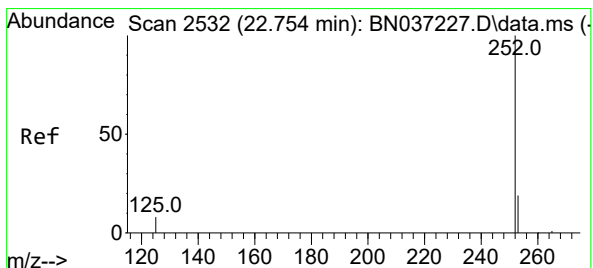
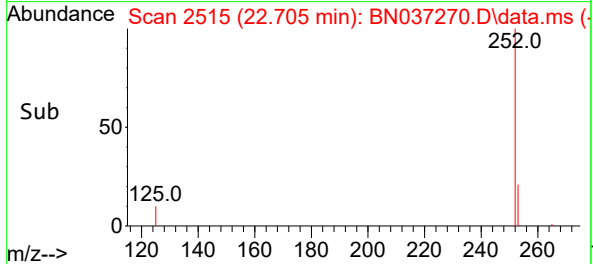
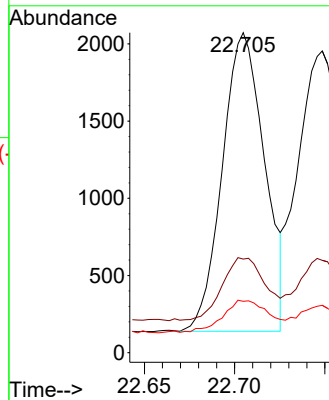
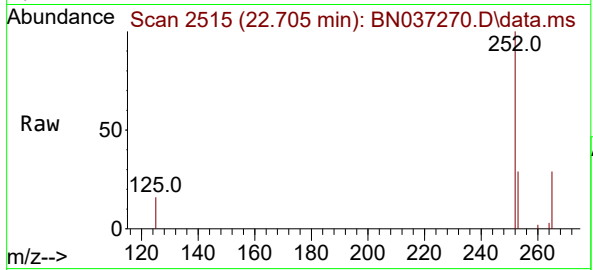
125 16.1 12.9 19.3

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

Concen: 0.372 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

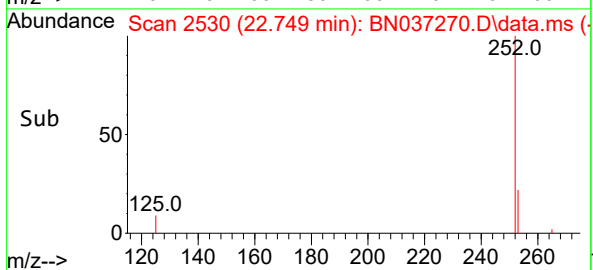
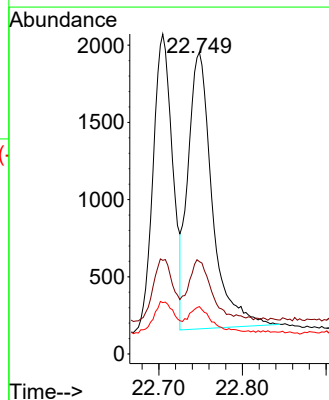
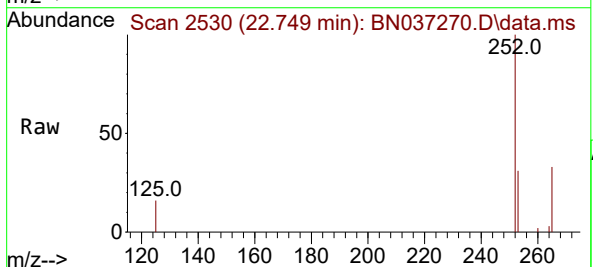
Tgt Ion:252 Resp: 3614

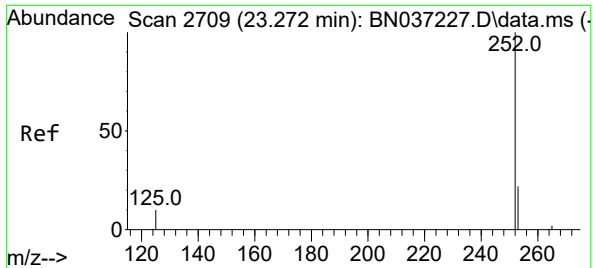
Ion Ratio Lower Upper

252 100

253 30.6 24.6 37.0

125 15.7 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

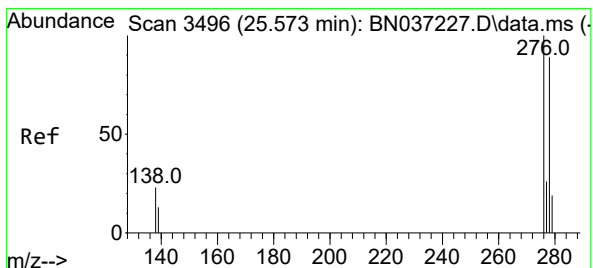
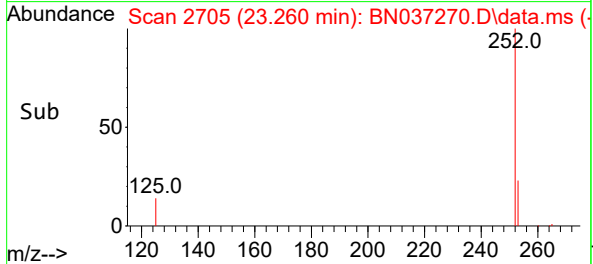
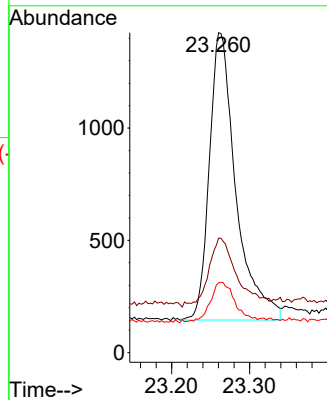
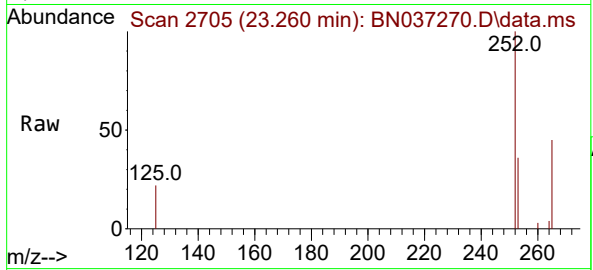
Tgt Ion:252 Resp: 3030

Ion	Ratio	Lower	Upper
252	100		
253	35.8	29.4	44.2
125	21.8	16.2	24.2

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.398 ng

RT: 25.558 min Scan# 3491

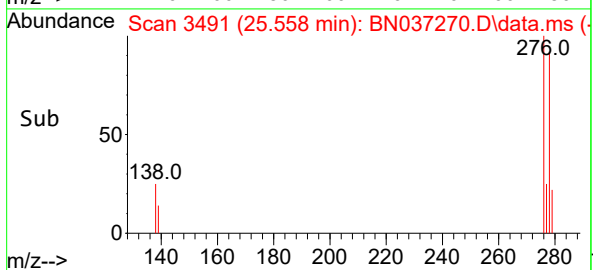
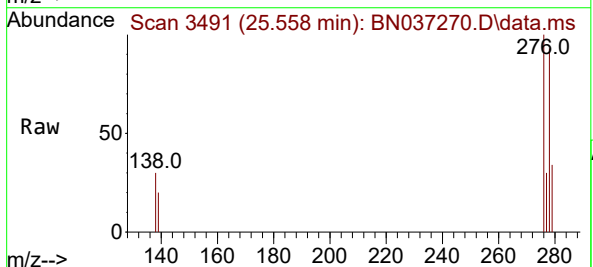
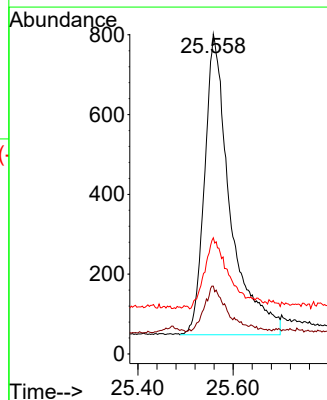
Delta R.T. -0.015 min

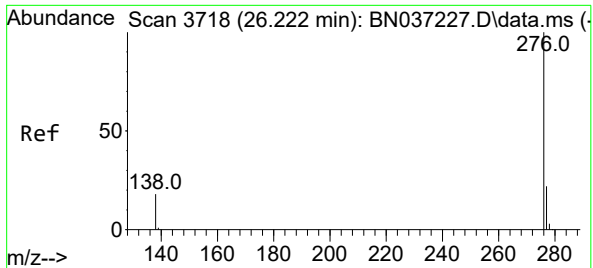
Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Tgt Ion:278 Resp: 2809

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	36.3	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.370 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037270.D

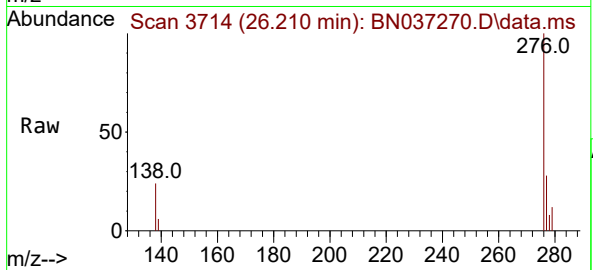
Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS



Tgt Ion:276 Resp: 318

Ion Ratio Lower Upper

276 100

277 27.7 22.0 33.0

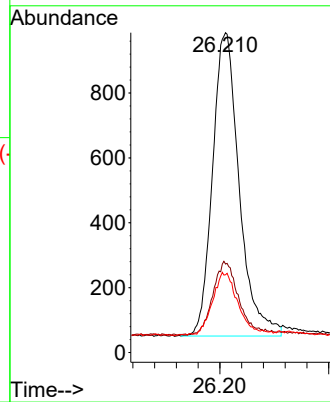
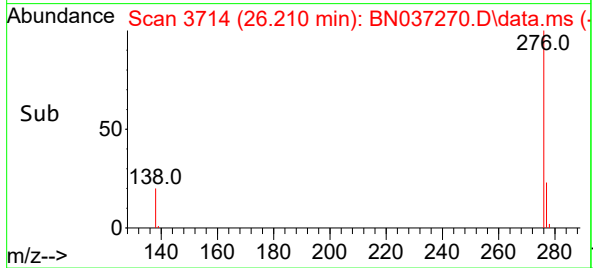
138 24.3 18.4 27.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609MS	SDG No.:	Q2299
Lab Sample ID:	Q2299-03MS	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
BN037246.D	1	06/13/25 08:03	06/14/25 03:32	PB168458

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	0.26		30 - 150		66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	952	7.575				
1146-65-2	Naphthalene-d8	2350	10.351				
15067-26-2	Acenaphthene-d10	1210	14.224				
1517-22-2	Phenanthrene-d10	2150	16.971				
1719-03-5	Chrysene-d12	1730	21.171				
1520-96-3	Perylene-d12	1760	23.363				

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\BN061325\
 Data File : BN037246.D
 Acq On : 14 Jun 2025 03:32
 Operator : RC/JU
 Sample : Q2299-03MS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 14 04:22:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	952	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2349	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1209	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2152	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng	0.00
35) Perylene-d12	23.363	264	1757	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	294	0.126	ng	0.00
5) Phenol-d6	6.766	99	177	0.072	ng	0.00
8) Nitrobenzene-d5	8.728	82	665	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	830m	0.263	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	173	0.345	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1503	0.296	ng	0.00
27) Fluoranthene-d10	19.017	212	1941	0.345	ng	0.00
31) Terphenyl-d14	19.621	244	1642	0.419	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2754	2.109	ng	# 91
3) n-Nitrosodimethylamine	3.422	42	489	0.164	ng	99
6) bis(2-Chloroethyl)ether	7.011	93	689	0.312	ng	94
9) Naphthalene	10.404	128	2106	0.310	ng	98
10) Hexachlorobutadiene	10.692	225	492	0.297	ng	# 99
12) 2-Methylnaphthalene	12.031	142	1184	0.286	ng	97
16) Acenaphthylene	13.946	152	2092	0.353	ng	98
17) Acenaphthene	14.288	154	1223	0.320	ng	100
18) Fluorene	15.282	166	1616	0.329	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	182	0.438	ng	88
21) 4-Bromophenyl-phenylether	16.177	248	506	0.361	ng	92
22) Hexachlorobenzene	16.289	284	539	0.332	ng	96
23) Atrazine	16.462	200	508	0.406	ng	97
24) Pentachlorophenol	16.636	266	556	0.698	ng	98
25) Phenanthrene	17.021	178	2496	0.366	ng	98
26) Anthracene	17.108	178	2343	0.375	ng	99
28) Fluoranthene	19.045	202	3009	0.377	ng	# 95
30) Pyrene	19.407	202	3076	0.377	ng	100
32) Benzo(a)anthracene	21.162	228	2465	0.421	ng	99
33) Chrysene	21.206	228	2864	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1818	0.417	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.549	276	2816	0.397	ng	99
37) Benzo(b)fluoranthene	22.708	252	2482	0.386	ng	97
38) Benzo(k)fluoranthene	22.751	252	2823	0.381	ng	98
39) Benzo(a)pyrene	23.266	252	2344	0.405	ng	99
40) Dibenzo(a,h)anthracene	25.564	278	2000	0.371	ng	98
41) Benzo(g,h,i)perylene	26.219	276	2427	0.369	ng	97

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

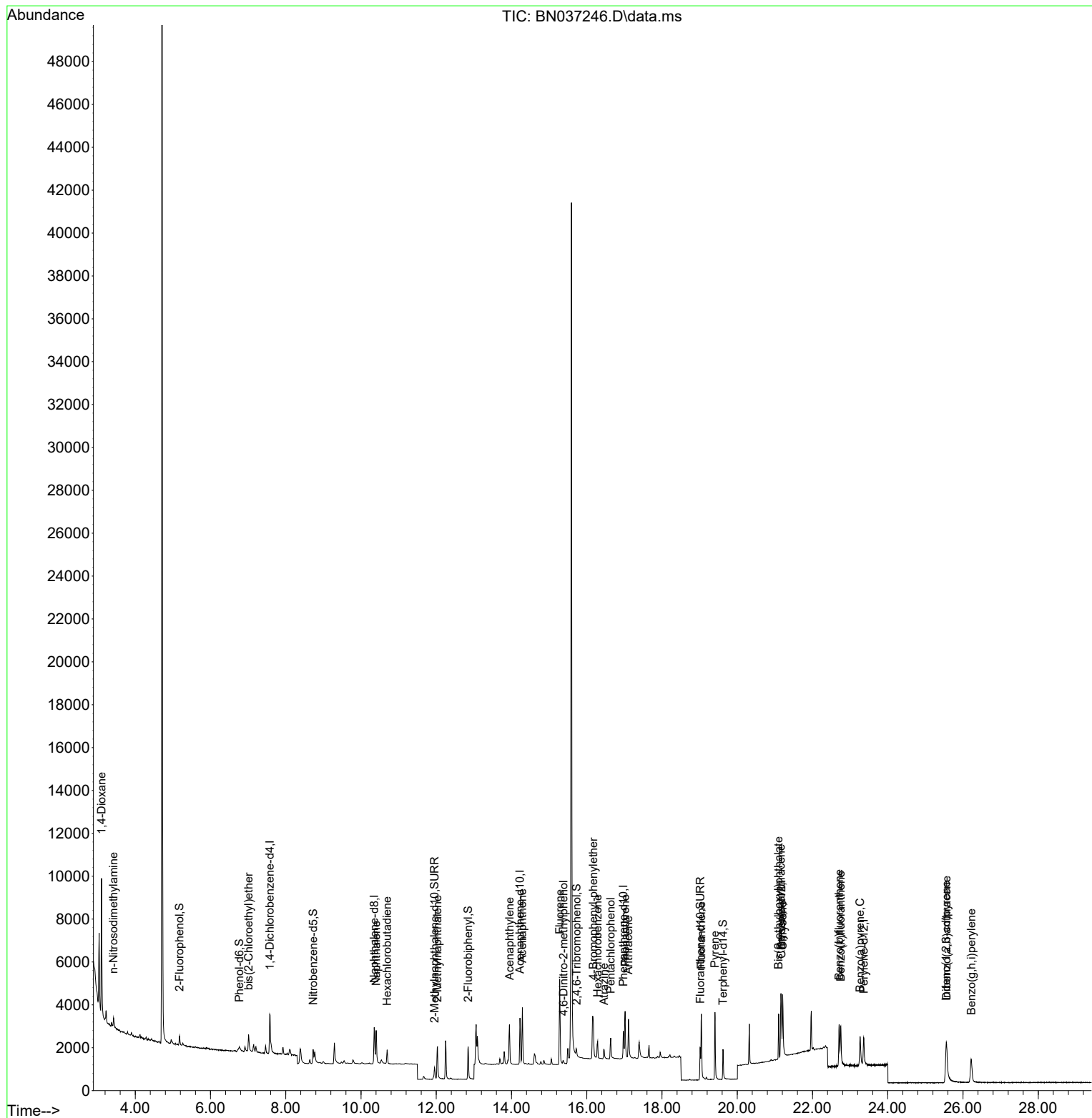
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Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

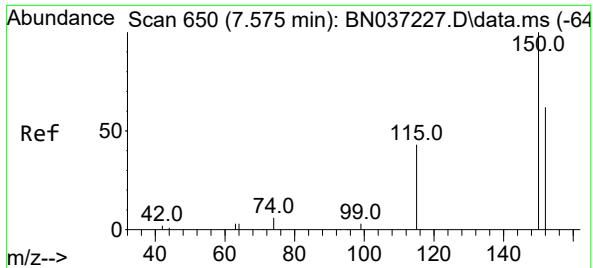
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

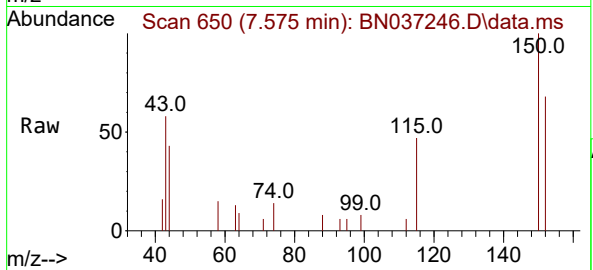
Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

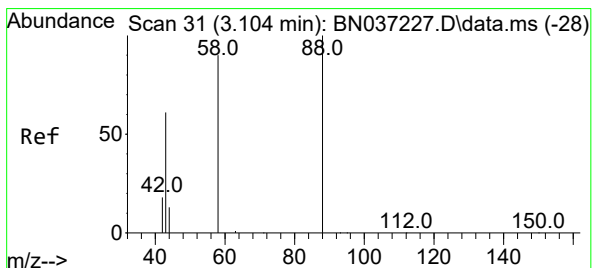
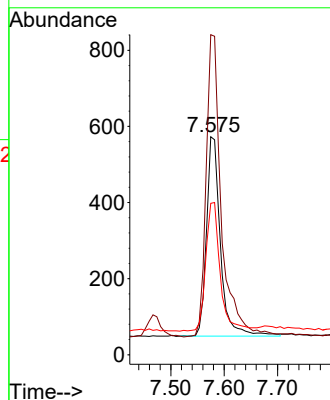
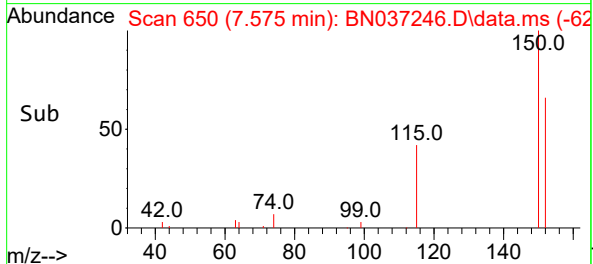
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion: 152 Resp: 952
Ion Ratio Lower Upper
152 100
150 146.8 125.2 187.8
115 69.5 58.4 87.6

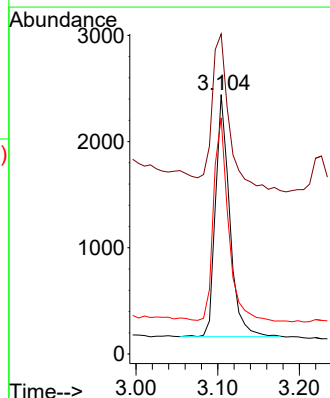
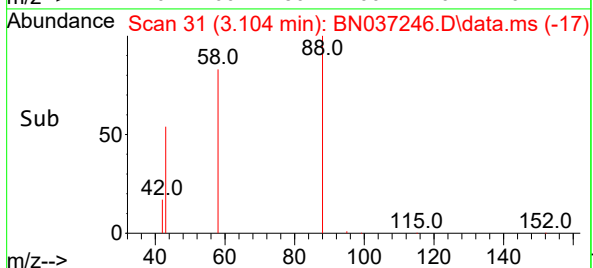
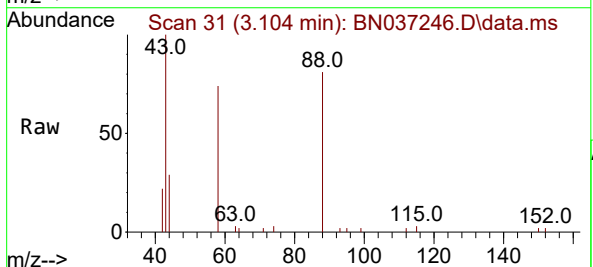
Manual Integrations
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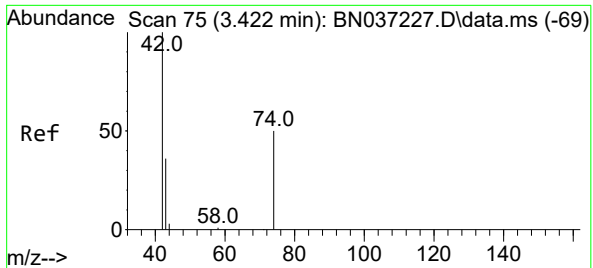
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#2
1,4-Dioxane
Concen: 2.109 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

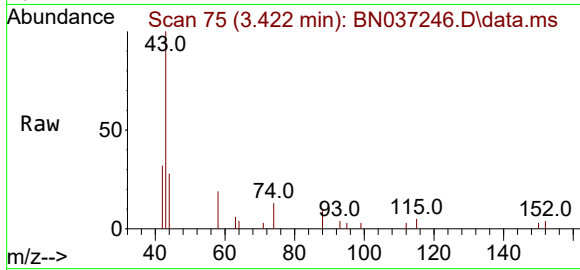
Tgt Ion: 88 Resp: 2754
Ion Ratio Lower Upper
88 100
43 79.0 52.6 79.0#
58 88.0 73.5 110.3





#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

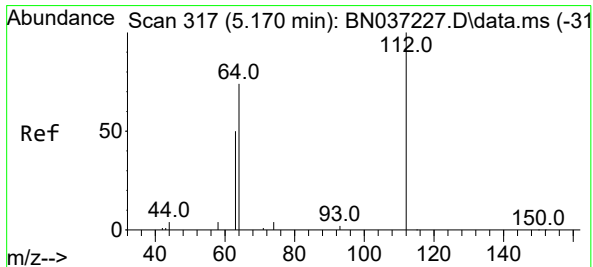
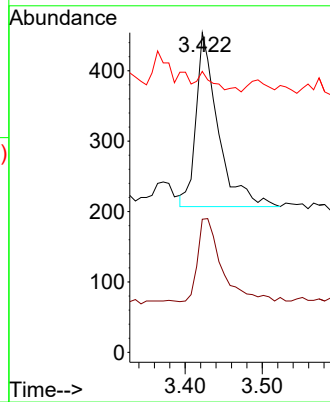
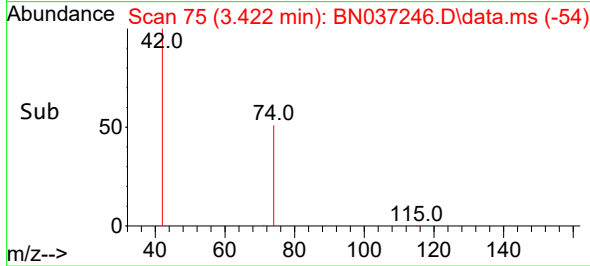
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion: 42 Resp: 489
Ion Ratio Lower Upper
42 100
74 54.6 44.6 66.8
44 4.7 3.5 5.3

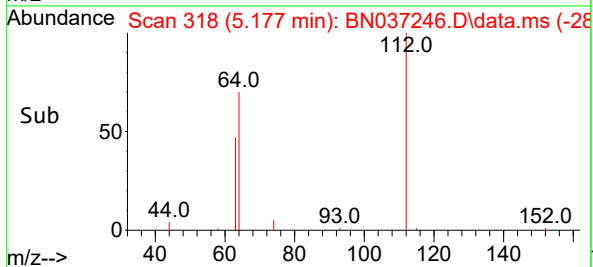
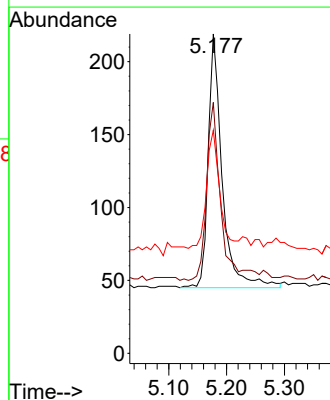
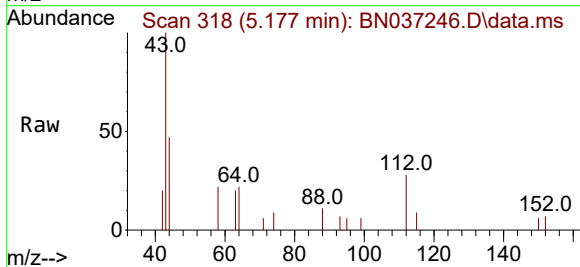
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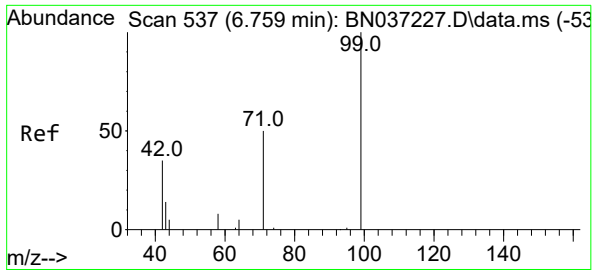
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

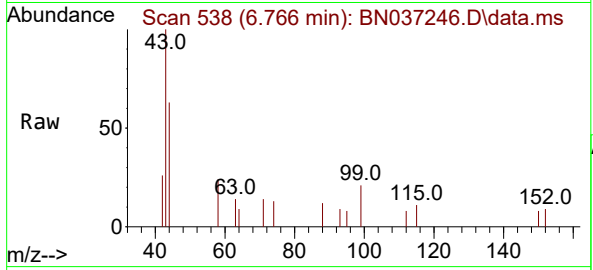
Tgt Ion:112 Resp: 294
Ion Ratio Lower Upper
112 100
64 67.7 57.2 85.8
63 43.5 39.8 59.6





#5
Phenol-d6
Concen: 0.072 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

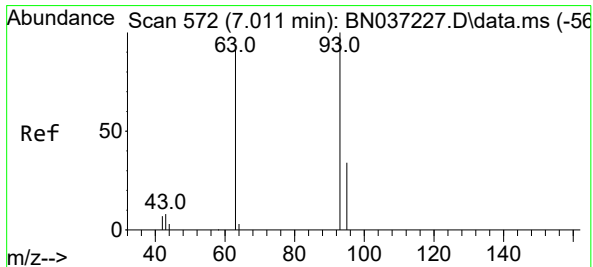
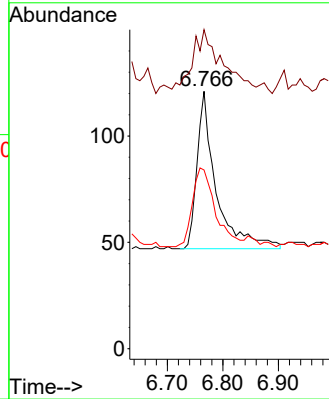
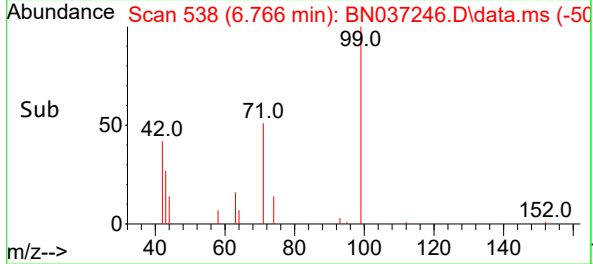
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion: 99 Resp: 17
Ion Ratio Lower Upper
99 100
42 54.2 36.2 54.4
71 59.3 42.4 63.6

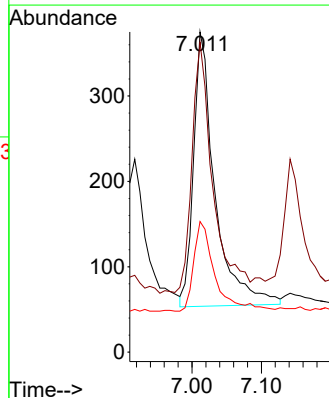
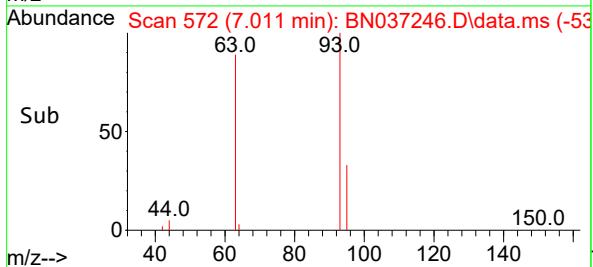
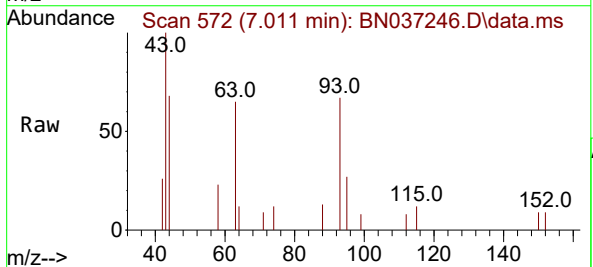
Manual Integrations
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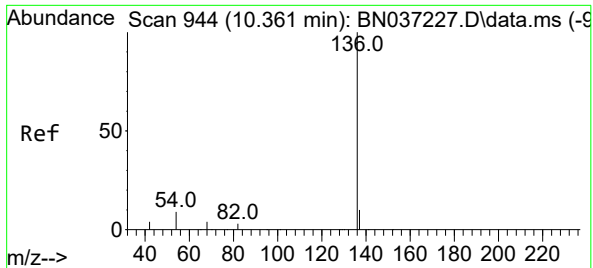
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

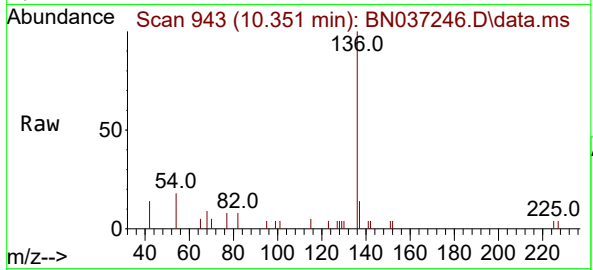
Tgt Ion: 93 Resp: 689
Ion Ratio Lower Upper
93 100
63 87.7 75.2 112.8
95 32.2 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

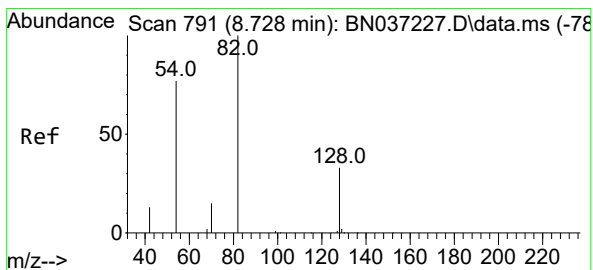
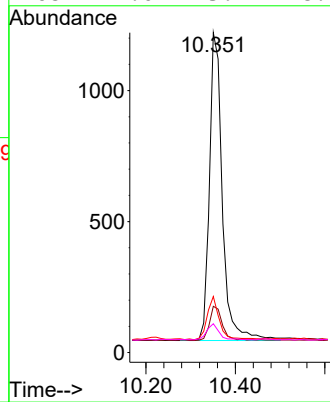
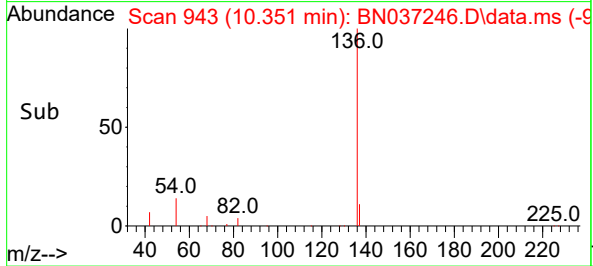
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:136 Resp: 2349
Ion Ratio Lower Upper
136 100
137 14.5 10.6 15.8
54 17.5 9.2 13.8
68 9.0 5.4 8.0#

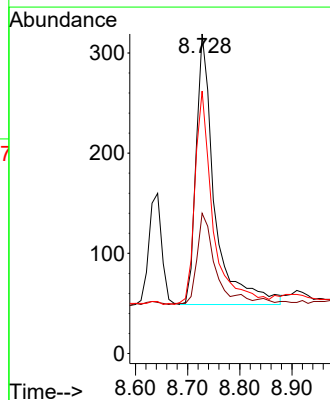
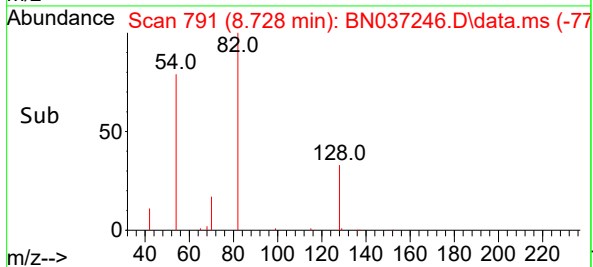
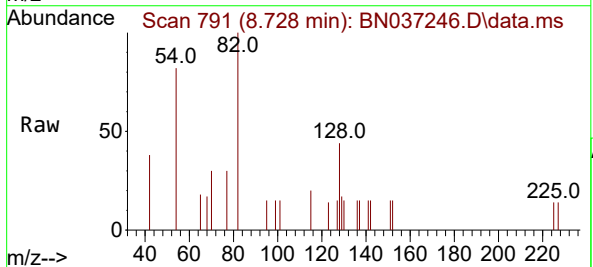
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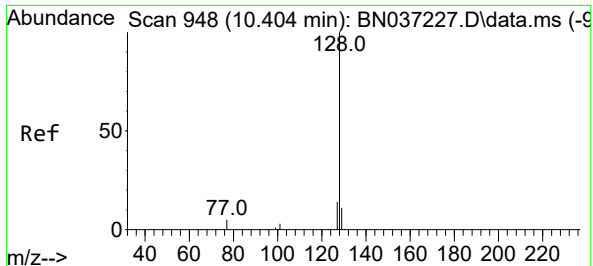
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

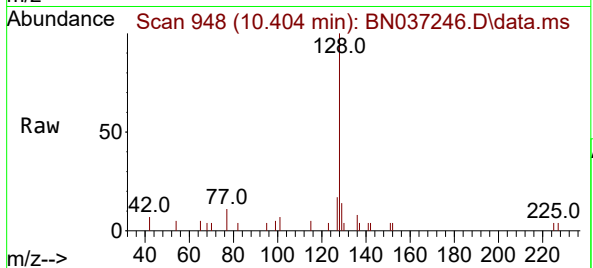
Tgt Ion: 82 Resp: 665
Ion Ratio Lower Upper
82 100
128 43.9 31.2 46.8
54 82.1 63.3 94.9





#9
Naphthalene
Concen: 0.310 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

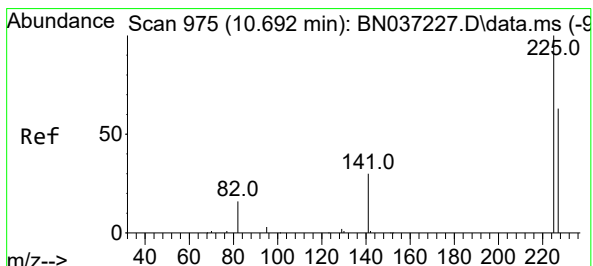
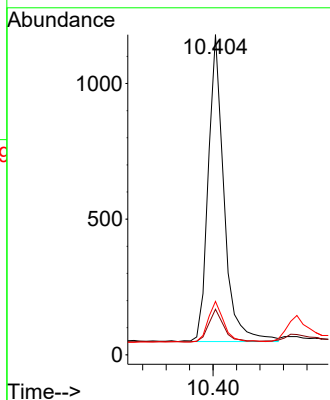
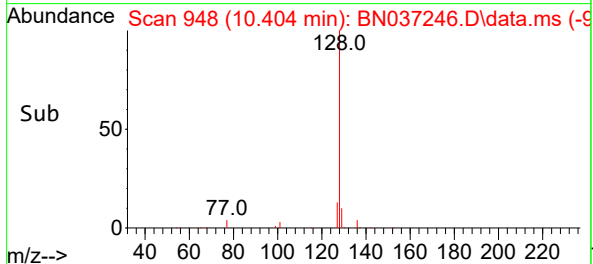
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:128 Resp: 2100
Ion Ratio Lower Upper
128 100
129 14.2 10.7 16.1
127 16.7 12.6 19.0

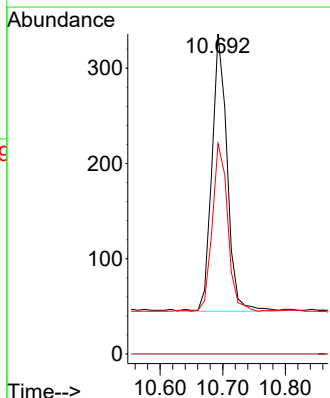
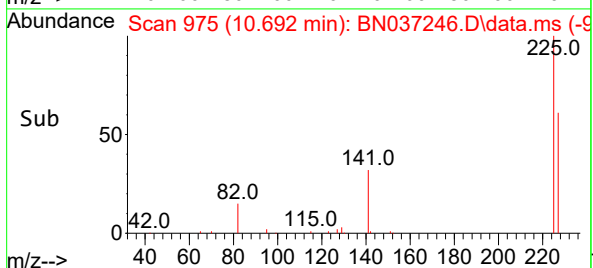
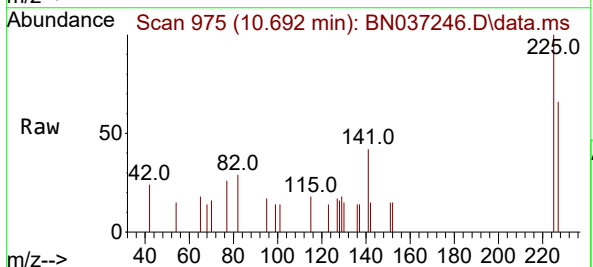
Manual Integrations
APPROVED

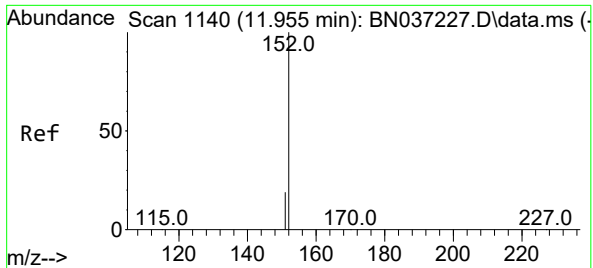
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.297 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

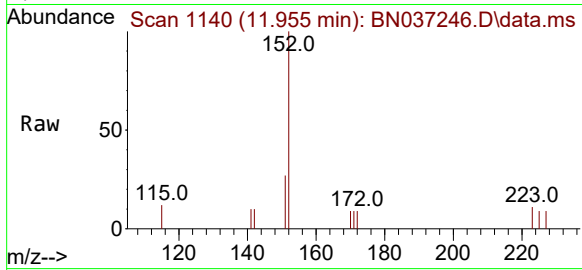
Tgt Ion:225 Resp: 492
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 61.0 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.263 ng m
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

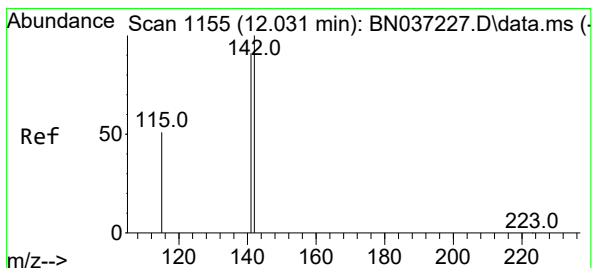
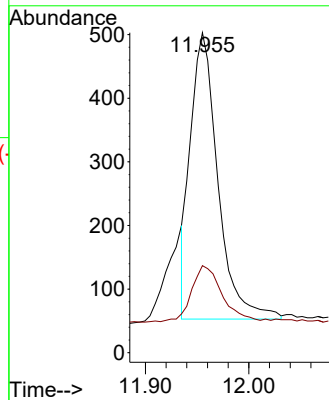
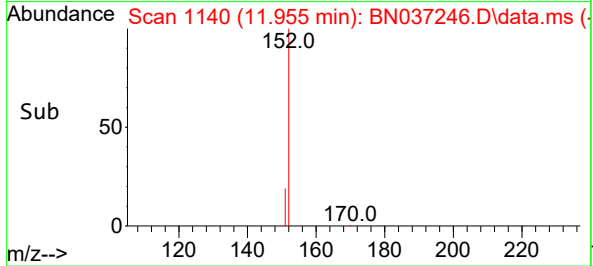
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



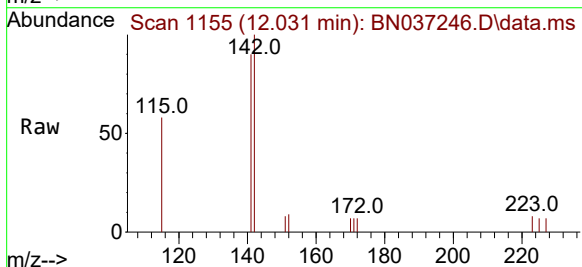
Tgt Ion:152 Resp: 830
Ion Ratio Lower Upper
152 100
151 22.3 17.9 26.9

Manual Integrations
APPROVED

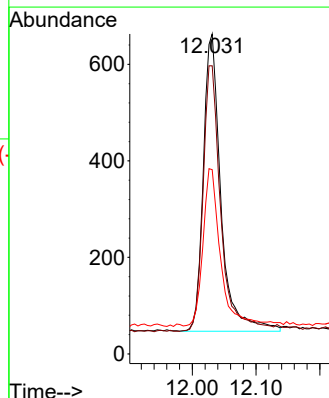
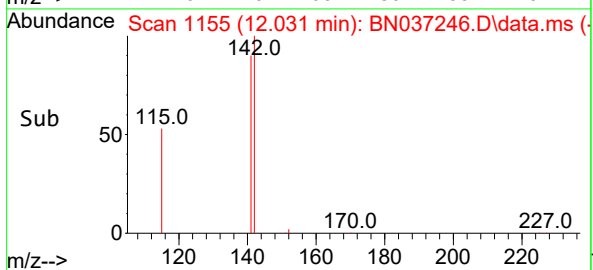
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

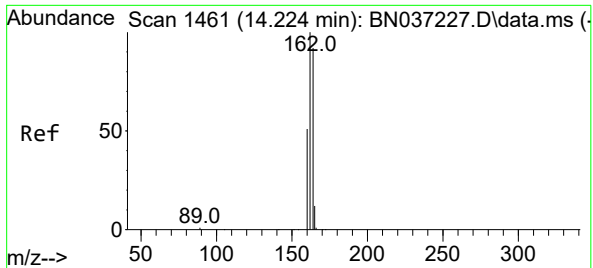


#12
2-Methylnaphthalene
Concen: 0.286 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32



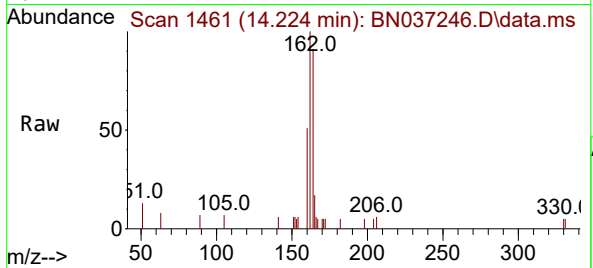
Tgt Ion:142 Resp: 1184
Ion Ratio Lower Upper
142 100
141 90.0 73.0 109.6
115 57.6 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

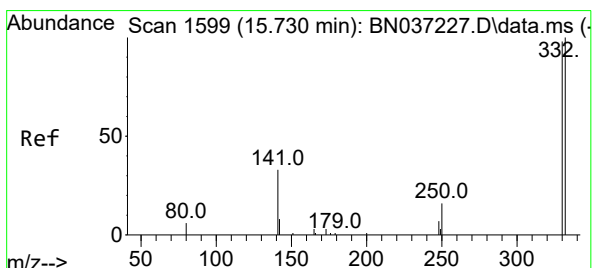
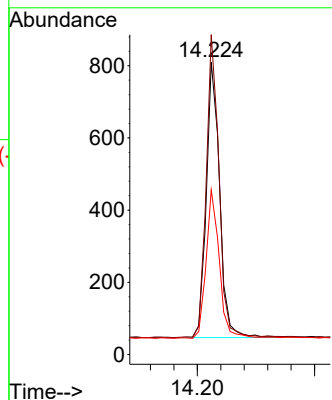
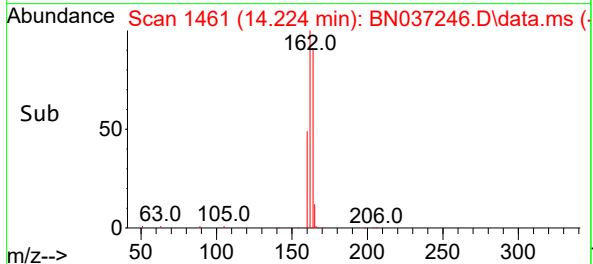
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



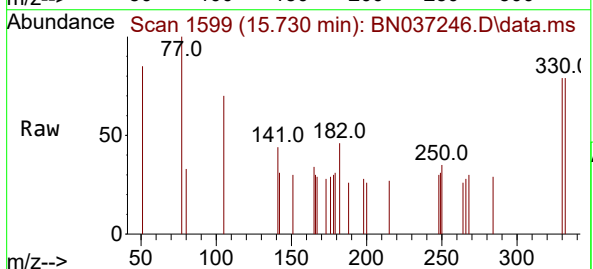
Tgt Ion:164 Resp: 1209
Ion Ratio Lower Upper
164 100
162 109.4 86.7 130.1
160 56.3 45.8 68.6

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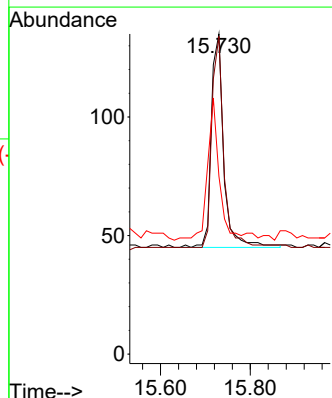
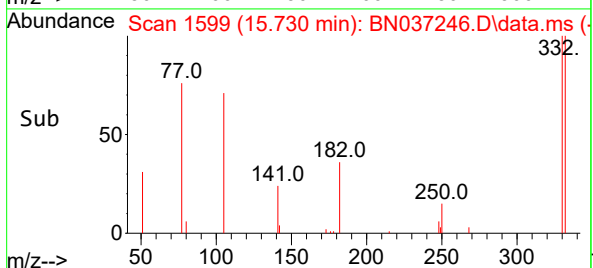
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

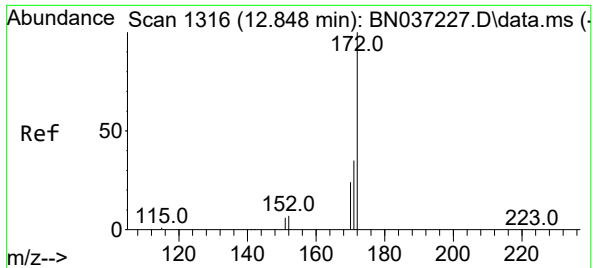


#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32



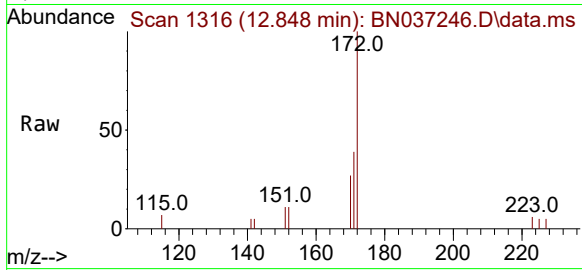
Tgt Ion:330 Resp: 173
Ion Ratio Lower Upper
330 100
332 94.8 74.9 112.3
141 63.0 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

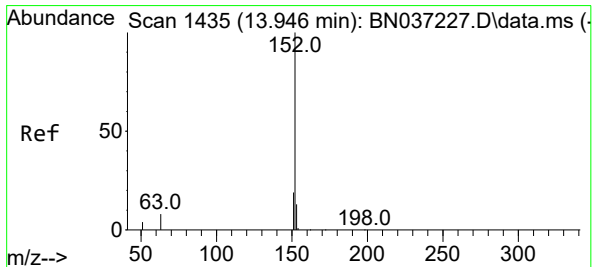
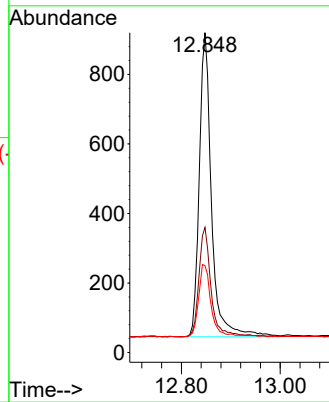
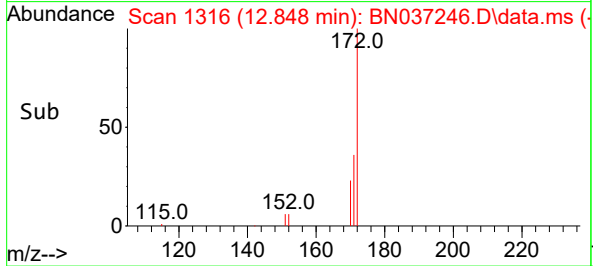
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:172 Resp: 150
Ion Ratio Lower Upper
172 100
171 39.1 29.8 44.8
170 27.2 21.1 31.7

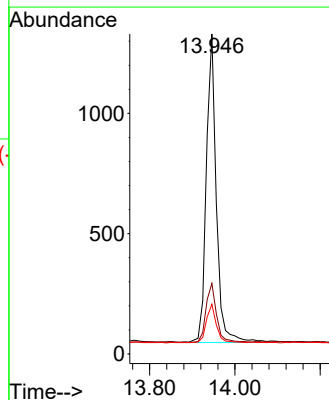
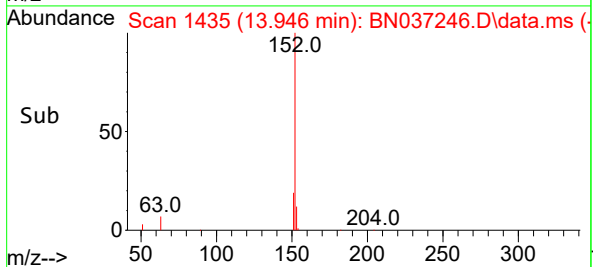
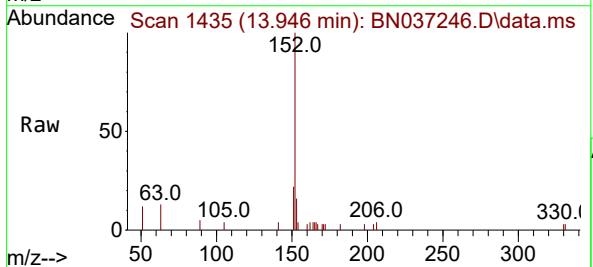
Manual Integrations
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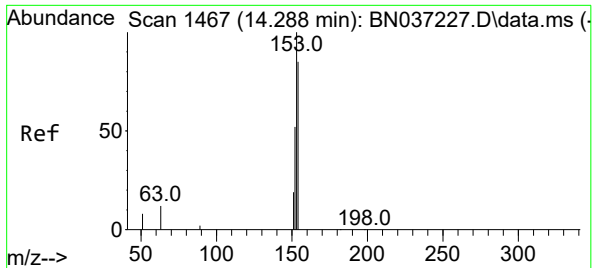
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.353 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:152 Resp: 2092
Ion Ratio Lower Upper
152 100
151 20.0 15.7 23.5
153 12.4 10.7 16.1





#17

Acenaphthene

Concen: 0.320 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

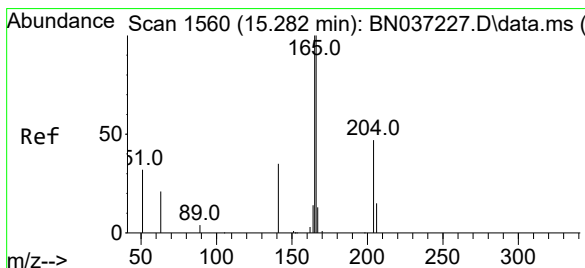
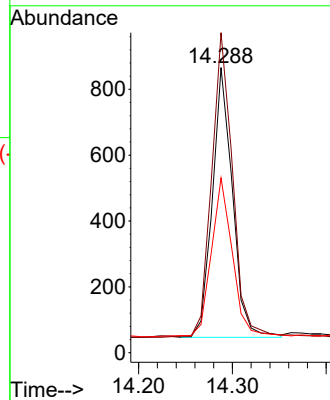
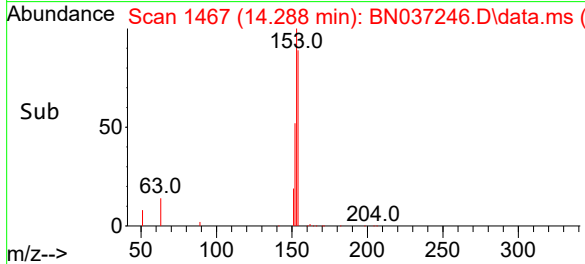
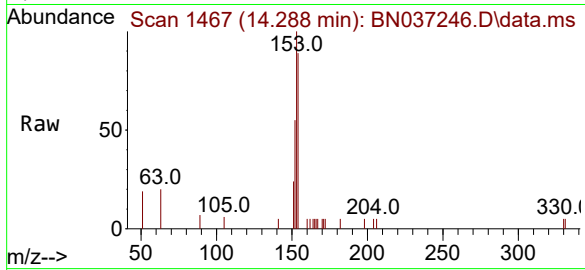
TT191D1-20250609MS

Tgt Ion:	154	Resp:	122
Ion	Ratio	Lower	Upper
154	100		
153	118.6	94.6	141.8
152	61.7	49.6	74.4

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18

Fluorene

Concen: 0.329 ng

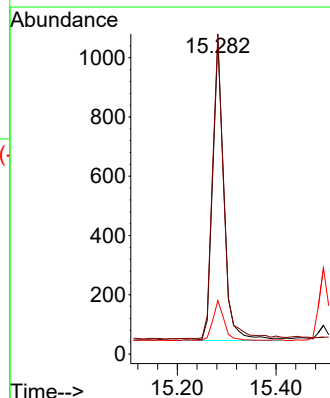
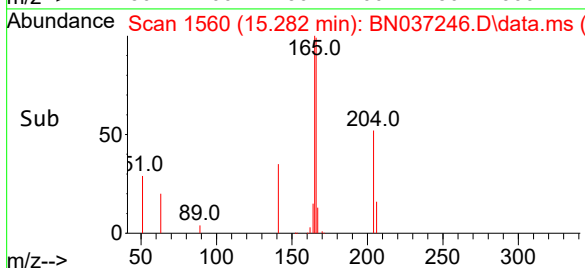
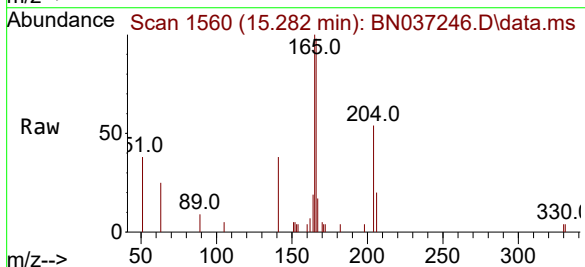
RT: 15.282 min Scan# 1560

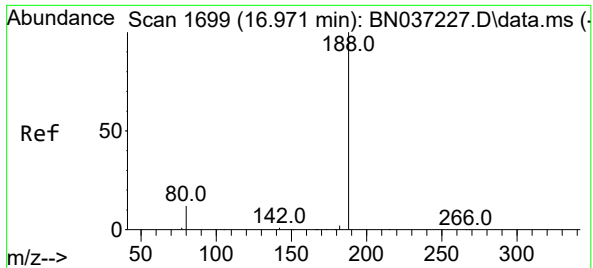
Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Tgt Ion:	166	Resp:	1616
Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.6
167	12.6	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

Tgt Ion:188 Resp: 215

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

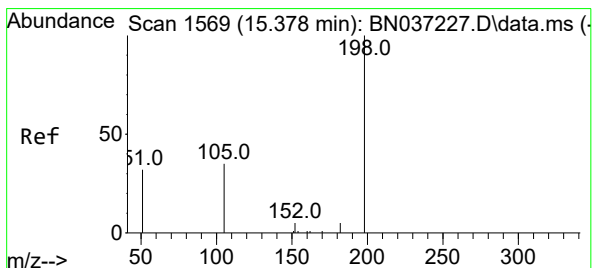
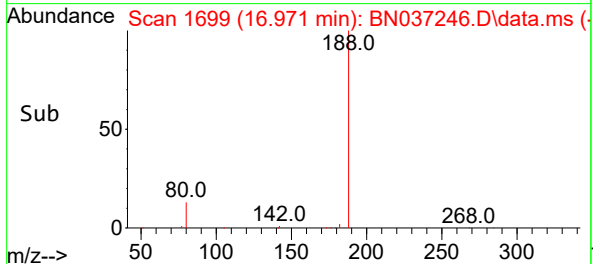
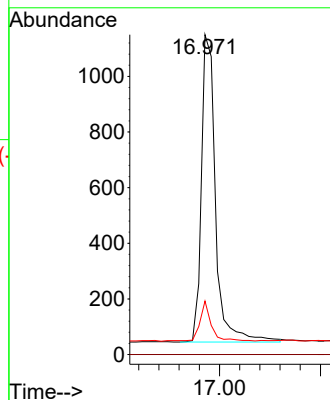
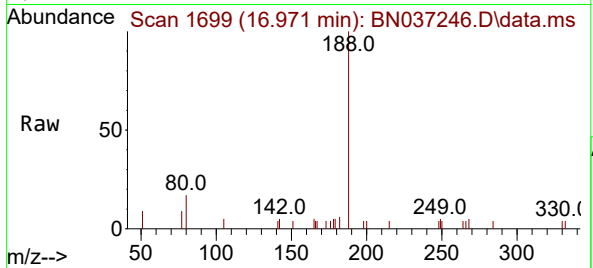
80 16.7 12.2 18.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.438 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

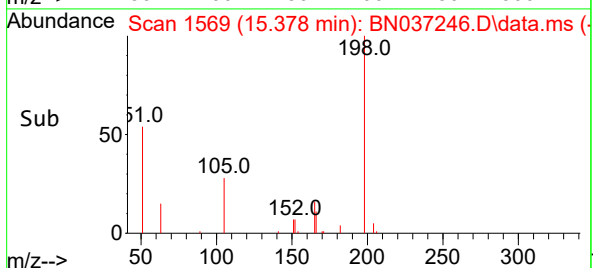
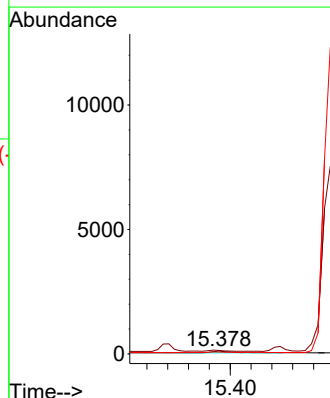
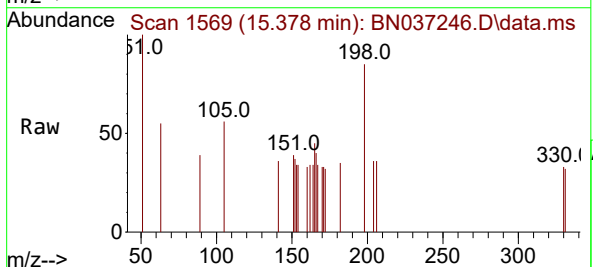
Tgt Ion:198 Resp: 182

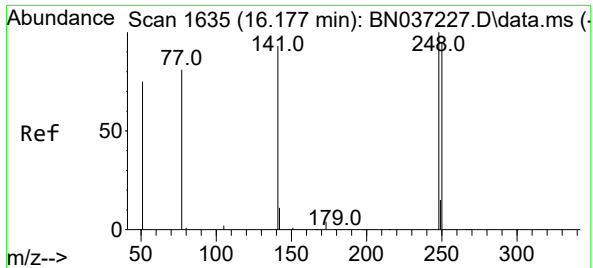
Ion Ratio Lower Upper

198 100

51 117.6 111.2 166.8

105 66.4 54.0 81.0





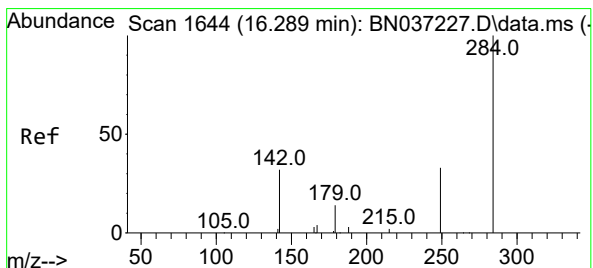
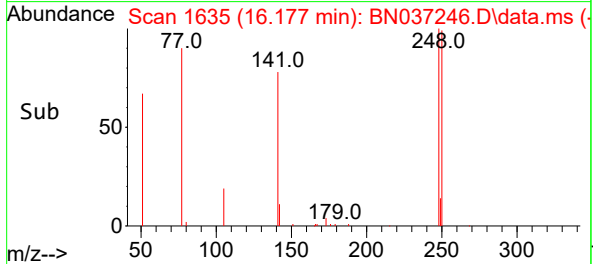
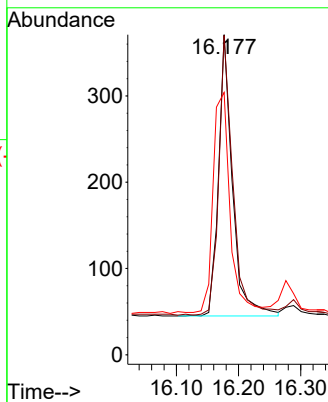
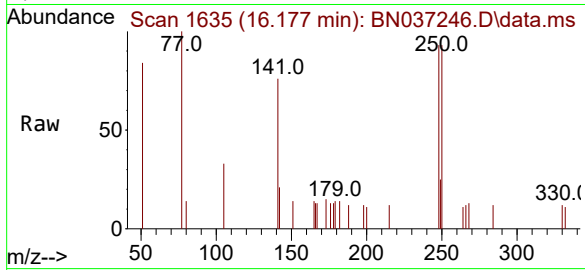
#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

Tgt Ion:248 Resp: 500
Ion Ratio Lower Upper
248 100
250 99.7 76.8 115.2
141 81.9 75.6 113.4

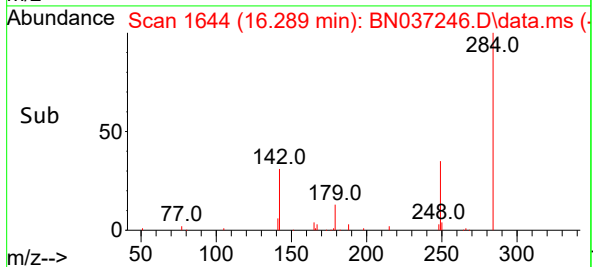
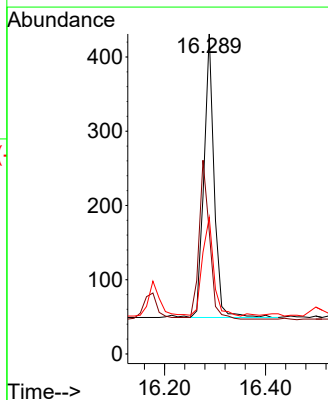
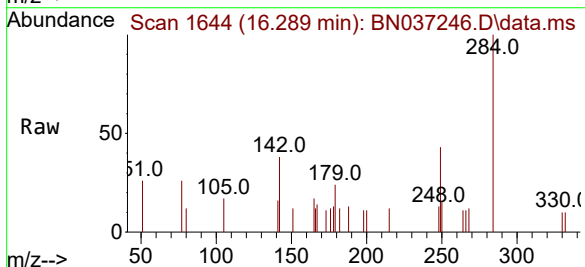
Manual Integrations
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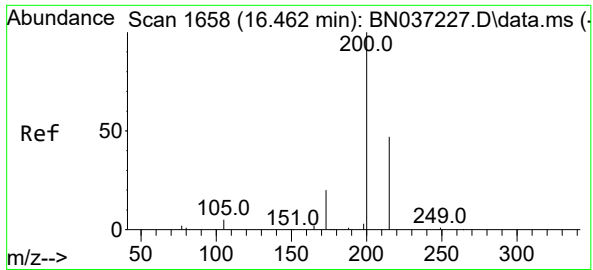
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#22
Hexachlorobenzene
Concen: 0.332 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:284 Resp: 539
Ion Ratio Lower Upper
284 100
142 57.1 43.8 65.6
249 38.8 28.4 42.6





#23

Atrazine

Concen: 0.406 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

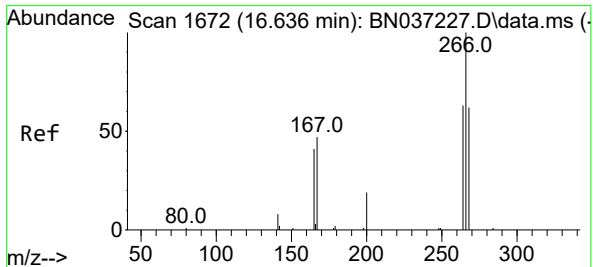
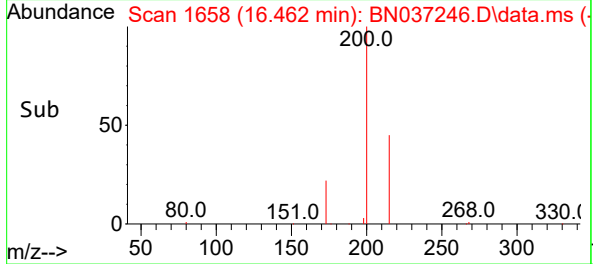
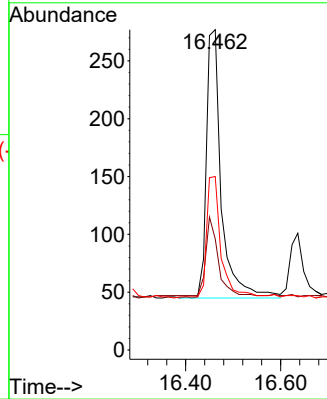
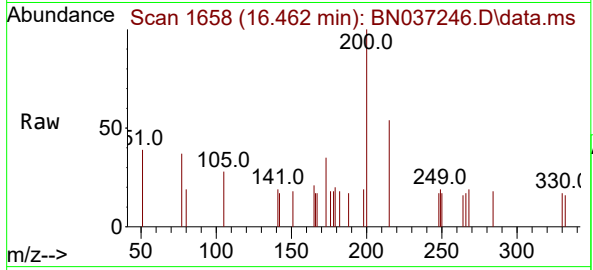
TT191D1-20250609MS

Tgt Ion:	200	Resp:	508
Ion Ratio	Lower	Upper	
200	100		
173	34.7	25.1	37.7
215	54.2	43.7	65.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025



#24

Pentachlorophenol

Concen: 0.698 ng

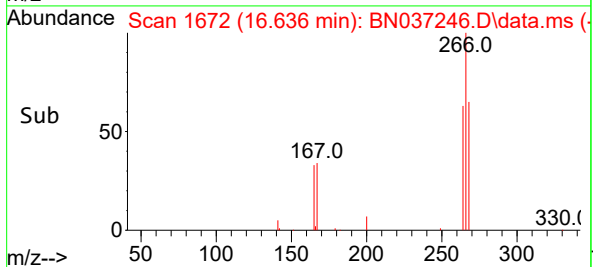
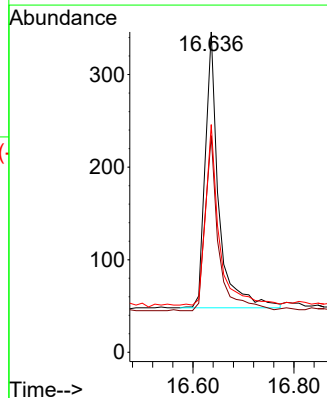
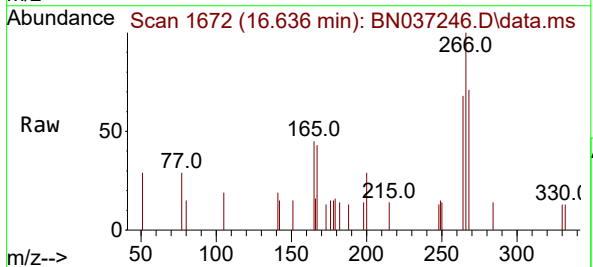
RT: 16.636 min Scan# 1672

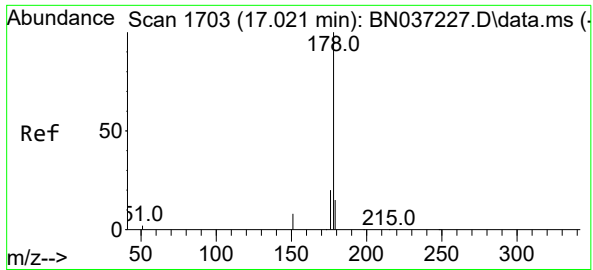
Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

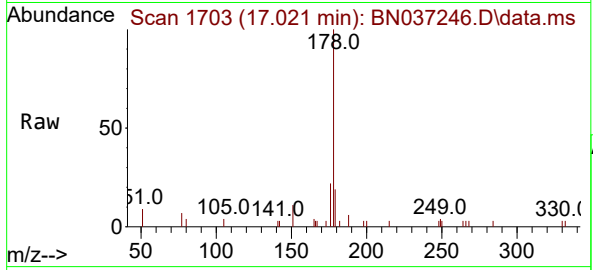
Tgt Ion:	266	Resp:	556
Ion Ratio	Lower	Upper	
266	100		
264	62.8	49.2	73.8
268	65.5	53.4	80.2





#25
Phenanthrene
Concen: 0.366 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

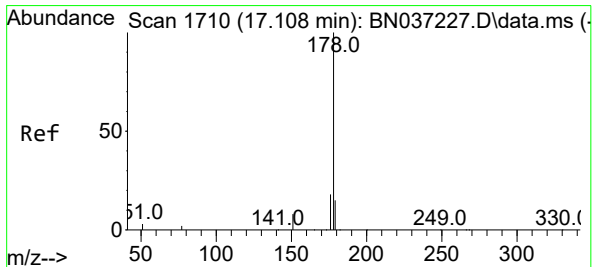
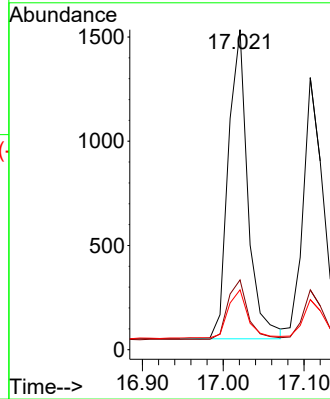
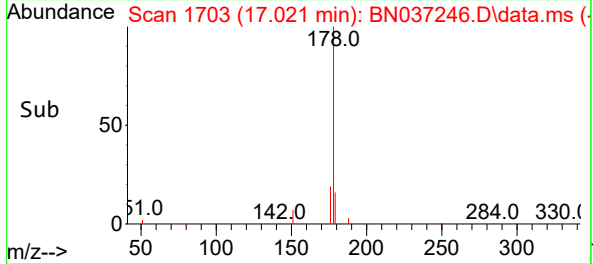
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



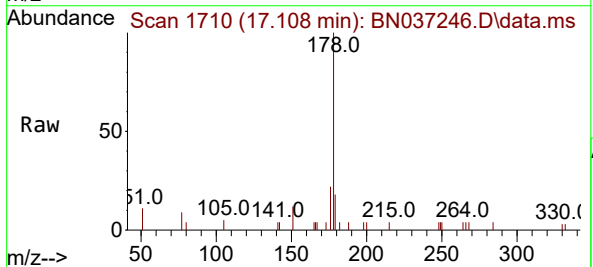
Tgt Ion:178 Resp: 2490
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 16.6 12.6 18.8

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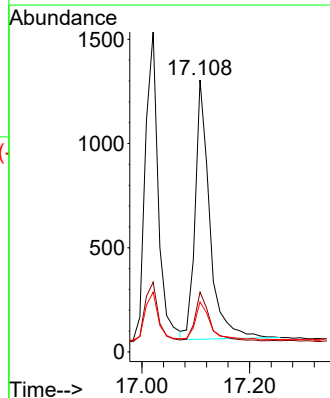
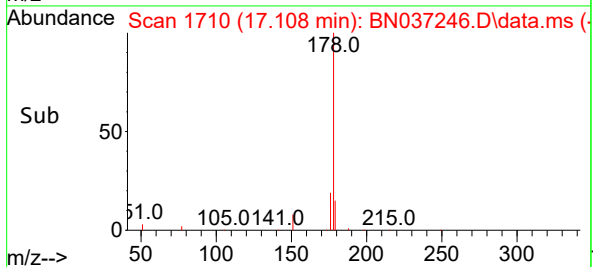
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

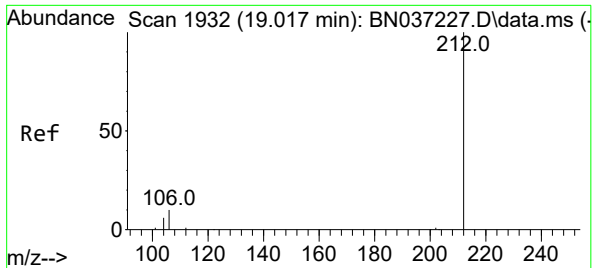


#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32



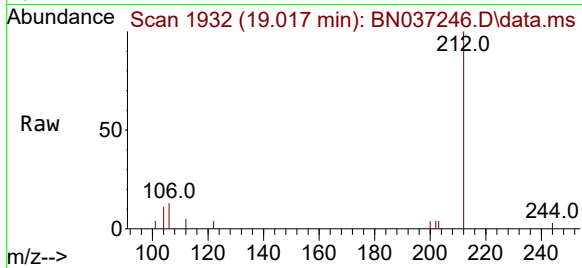
Tgt Ion:178 Resp: 2343
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.0 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

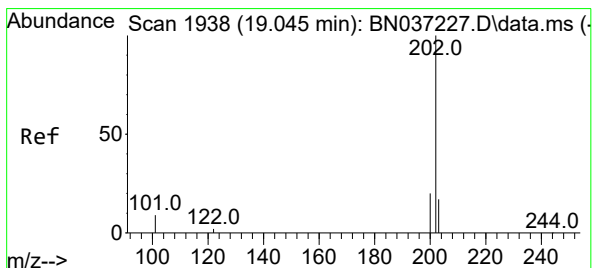
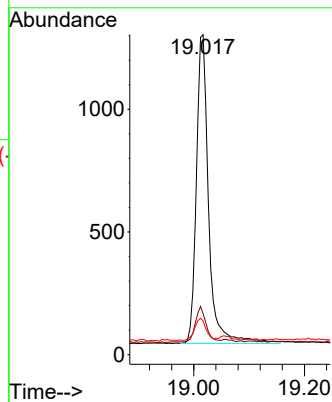
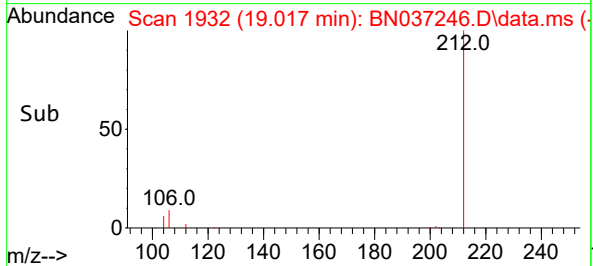
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



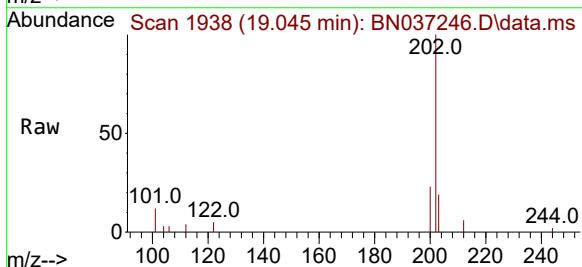
Tgt Ion:212 Resp: 194
Ion Ratio Lower Upper
212 100
106 9.9 9.3 13.9
104 6.5 5.7 8.5

Manual Integrations
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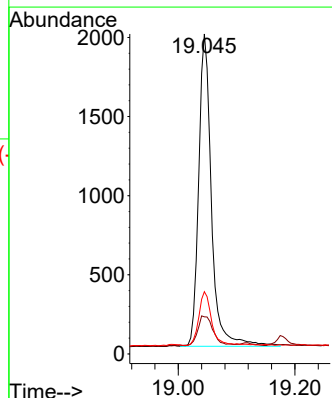
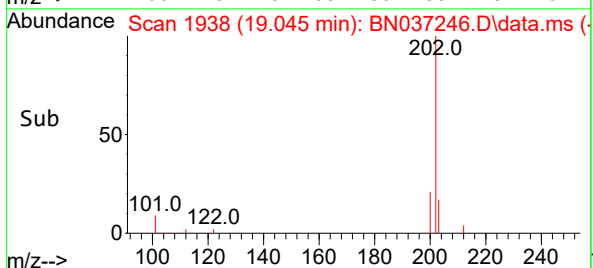
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

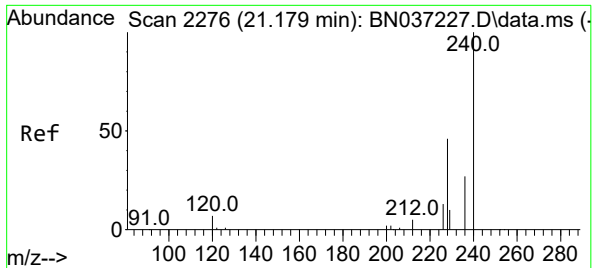


#28
Fluoranthene
Concen: 0.377 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32



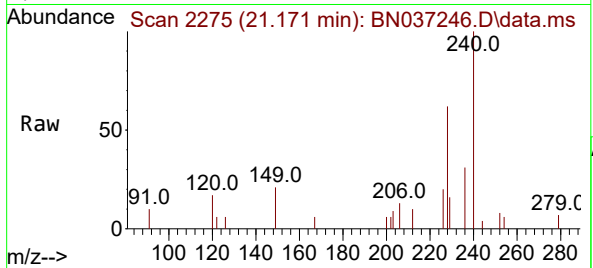
Tgt Ion:202 Resp: 3009
Ion Ratio Lower Upper
202 100
101 12.1 7.1 10.7#
203 17.5 13.0 19.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

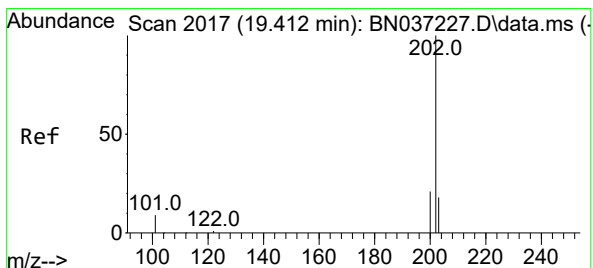
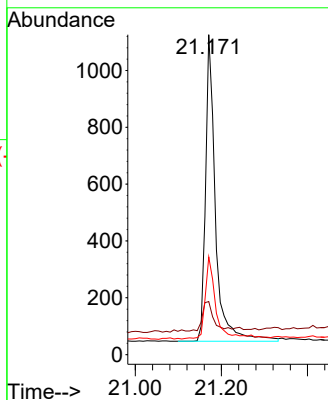
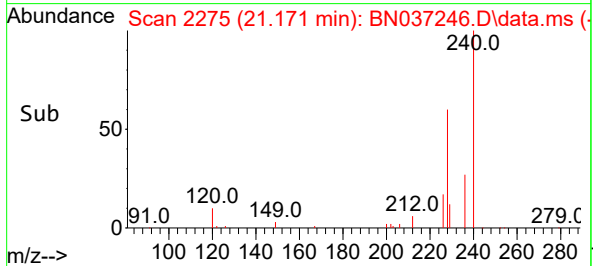
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:240 Resp: 1734
Ion Ratio Lower Upper
240 100
120 16.6 11.3 16.9
236 30.6 24.4 36.6

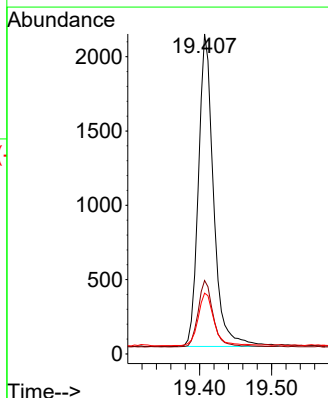
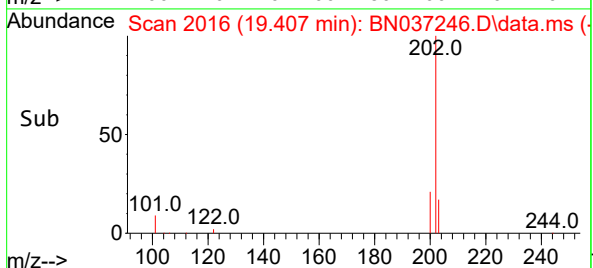
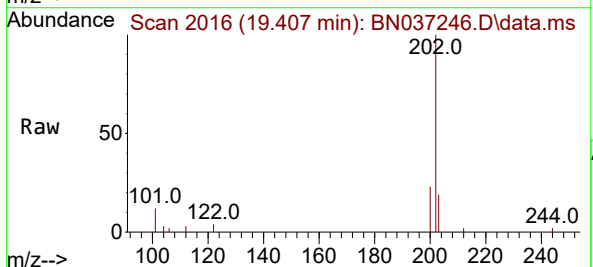
Manual Integrations
APPROVED

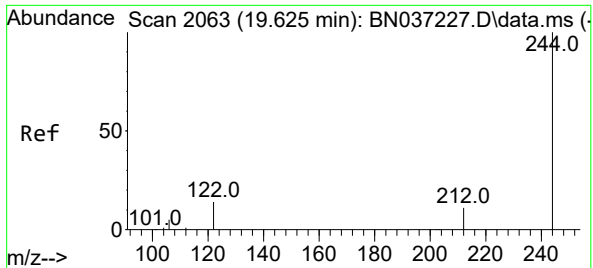
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30
Pyrene
Concen: 0.377 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

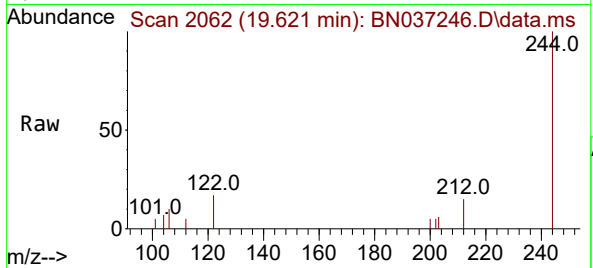
Tgt Ion:202 Resp: 3076
Ion Ratio Lower Upper
202 100
200 21.3 17.2 25.8
203 17.8 14.3 21.5





#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

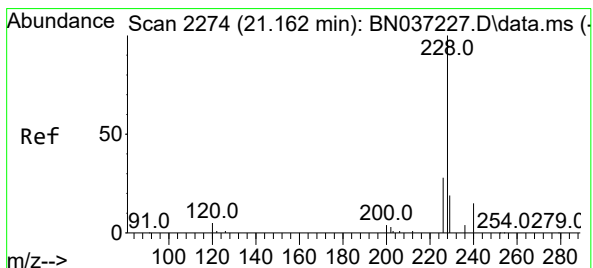
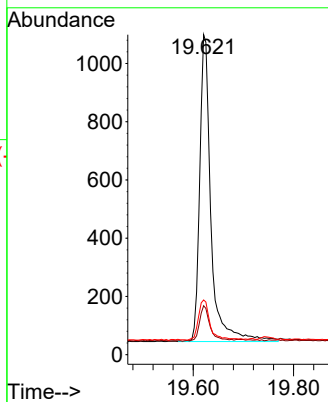
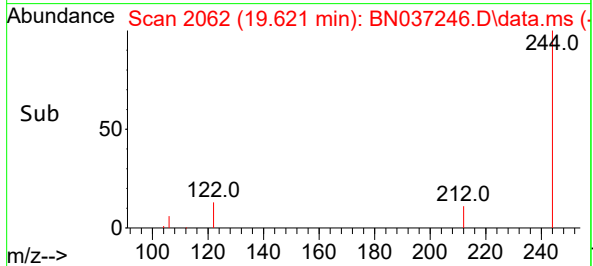
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:244 Resp: 164
Ion Ratio Lower Upper
244 100
212 15.3 12.2 18.2
122 17.1 14.3 21.5

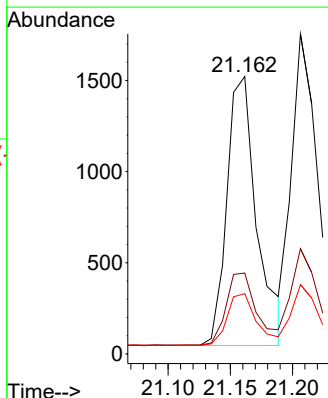
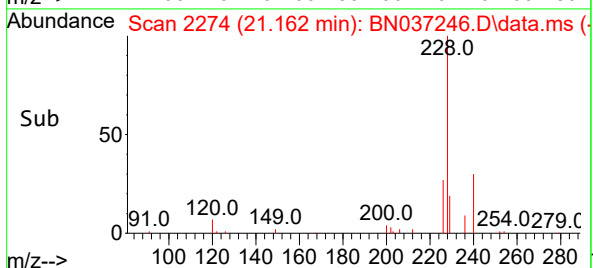
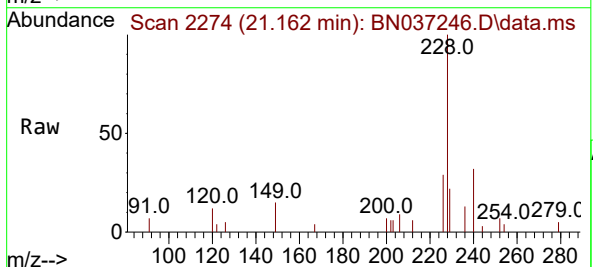
Manual Integrations
APPROVED

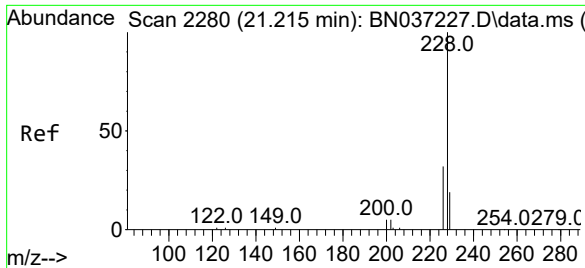
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.421 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:228 Resp: 2465
Ion Ratio Lower Upper
228 100
226 29.2 23.8 35.8
229 21.7 17.0 25.4





#33

Chrysene

Concen: 0.393 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037246.D

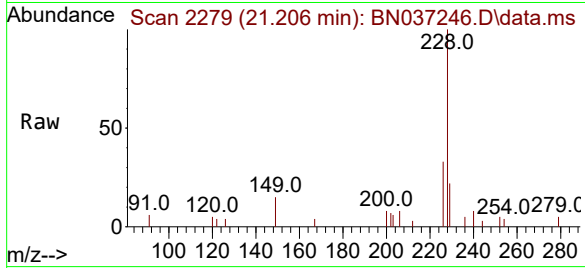
Acq: 14 Jun 2025 03:32

Instrument :

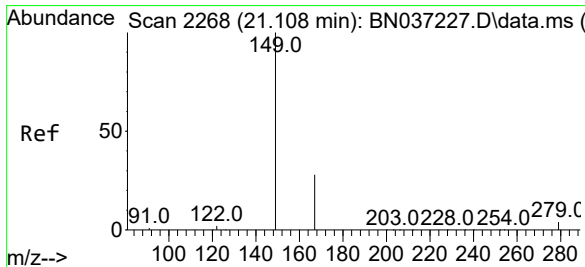
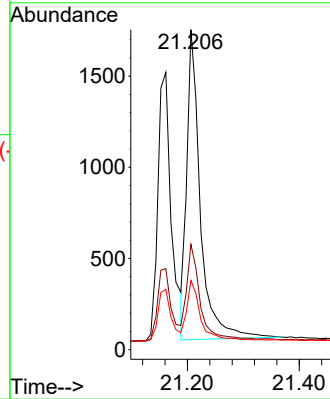
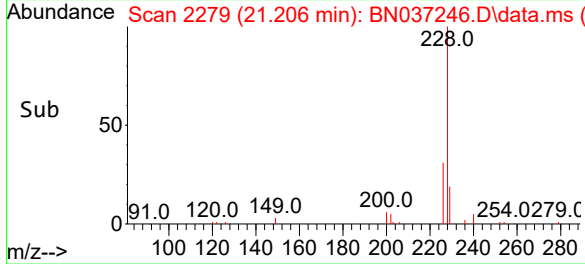
BNA_N

ClientSampleId :

TT191D1-20250609MS



Tgt Ion:	228	Resp:	286
Ion Ratio	Lower	Upper	
228	100		
226	32.9	25.8	38.6
229	21.7	17.0	25.4

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

#34

Bis(2-ethylhexyl)phthalate

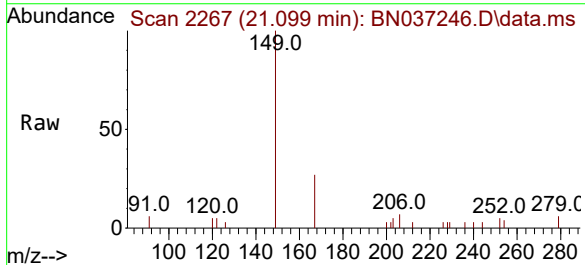
Concen: 0.417 ng

RT: 21.099 min Scan# 2267

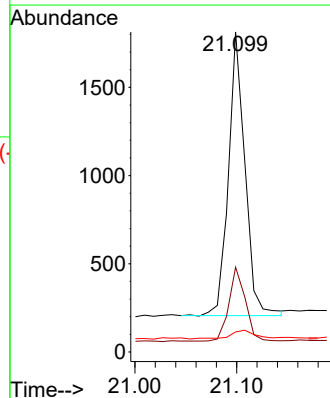
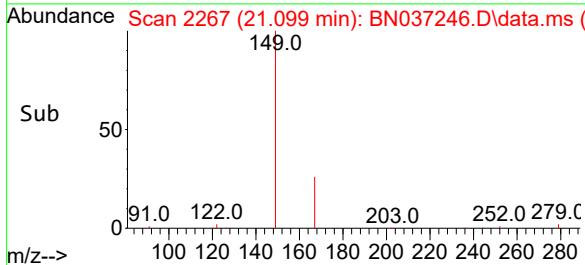
Delta R.T. -0.009 min

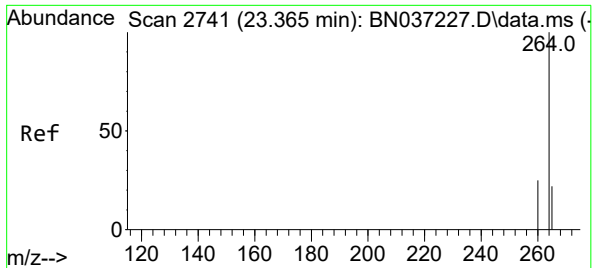
Lab File: BN037246.D

Acq: 14 Jun 2025 03:32



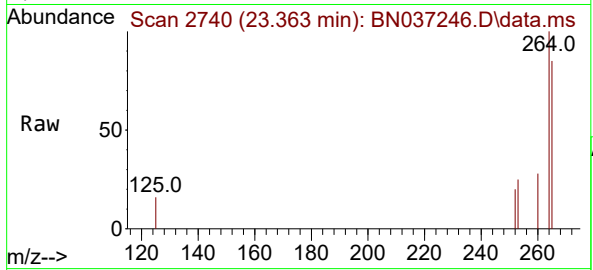
Tgt Ion:	149	Resp:	1818
Ion Ratio	Lower	Upper	
149	100		
167	25.7	21.3	31.9
279	5.3	3.3	4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

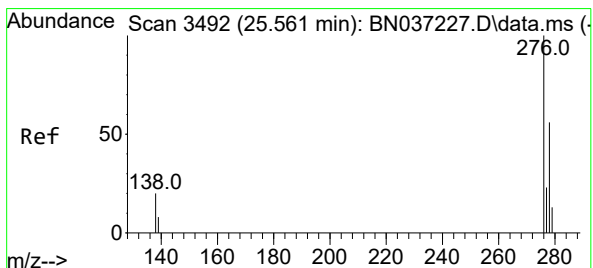
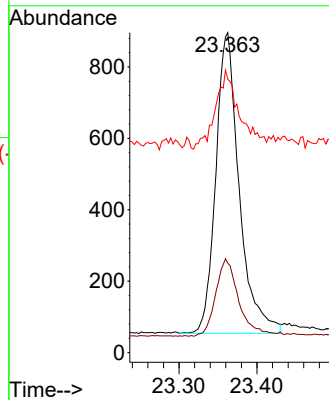
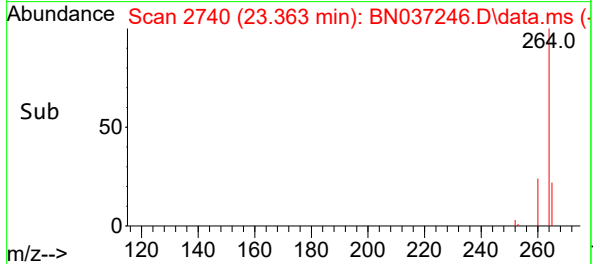
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion:264 Resp: 175
Ion Ratio Lower Upper
264 100
260 28.0 22.8 34.2
265 85.5 66.4 99.6

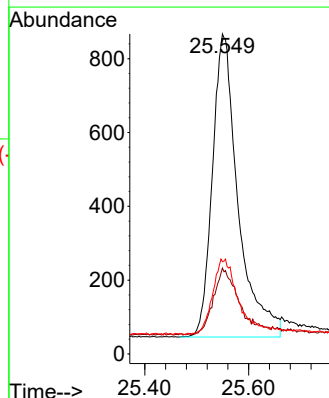
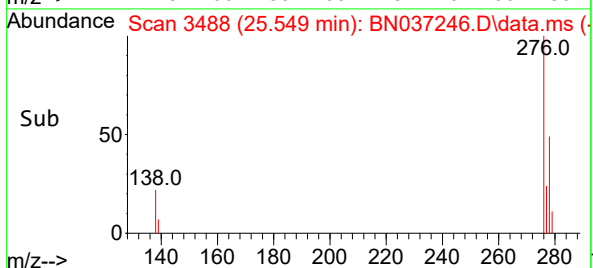
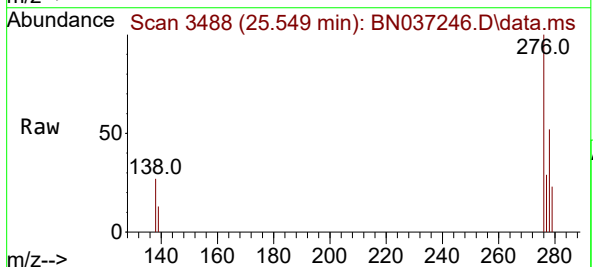
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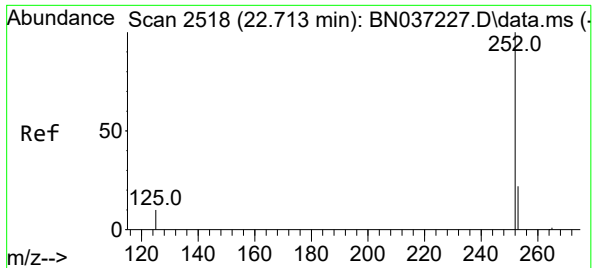
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.397 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:276 Resp: 2816
Ion Ratio Lower Upper
276 100
138 20.7 16.8 25.2
277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037246.D

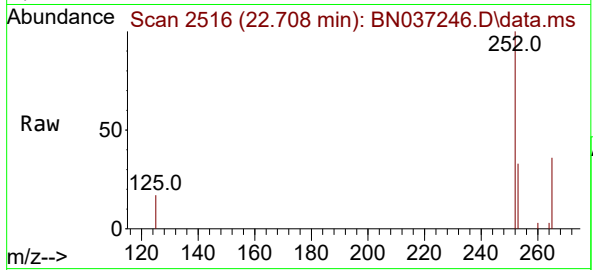
Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS



Tgt Ion:252 Resp: 248

Ion Ratio Lower Upper

252 100

253 32.8 24.9 37.3

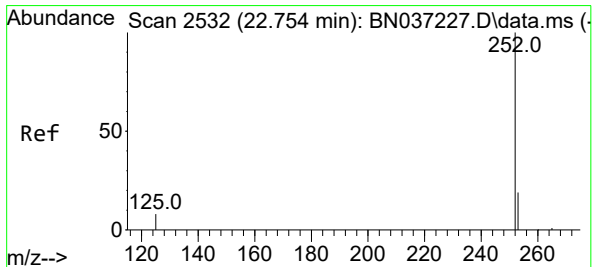
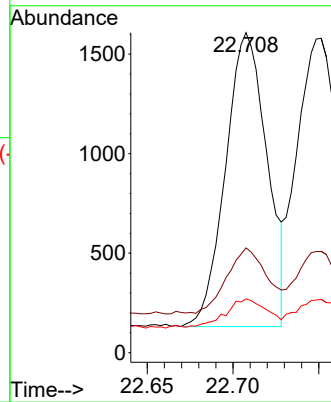
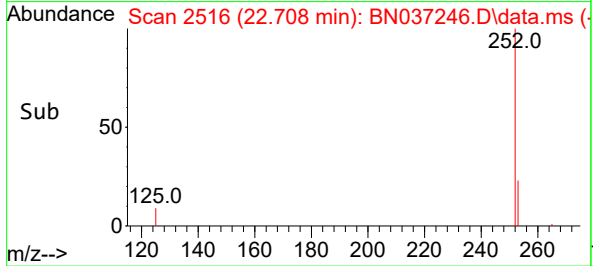
125 16.8 12.9 19.3

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

Concen: 0.381 ng

RT: 22.751 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

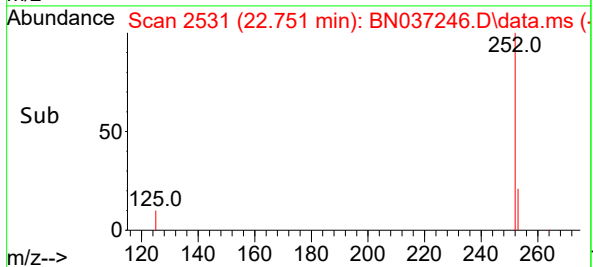
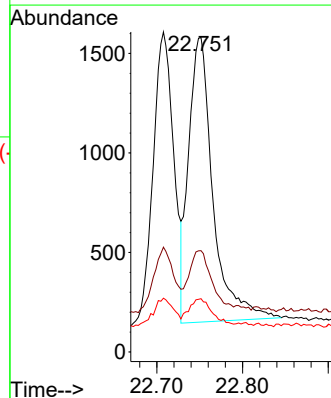
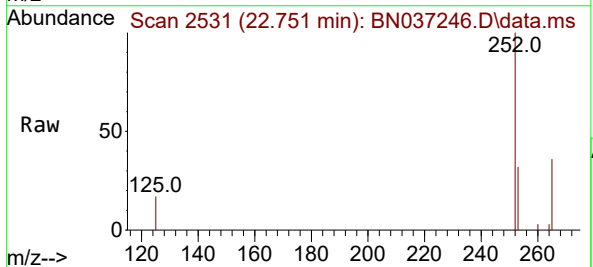
Tgt Ion:252 Resp: 2823

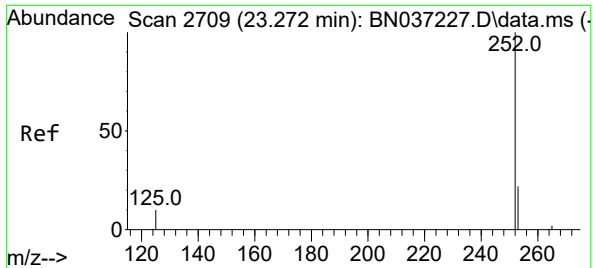
Ion Ratio Lower Upper

252 100

253 32.2 24.6 37.0

125 17.0 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.405 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037246.D

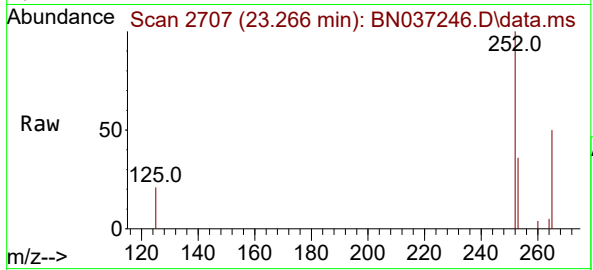
Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

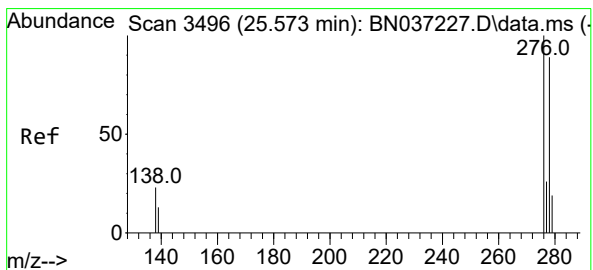
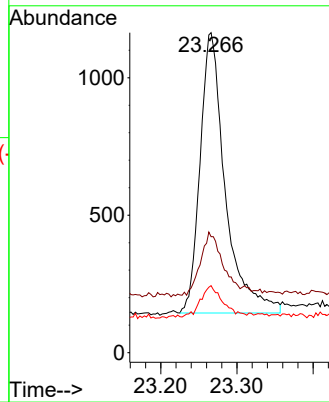


Tgt Ion:	252	Resp:	2344
Ion Ratio	Lower	Upper	
252	100		
253	36.3	29.4	44.2
125	21.0	16.2	24.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

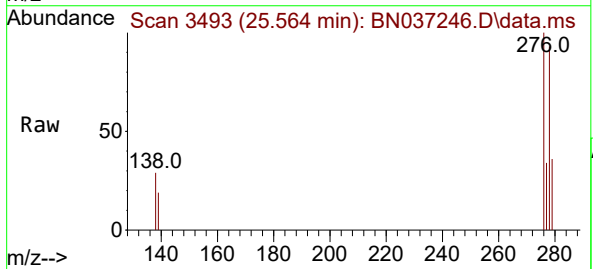
Concen: 0.371 ng

RT: 25.564 min Scan# 3493

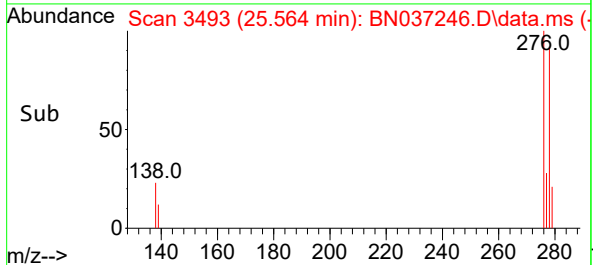
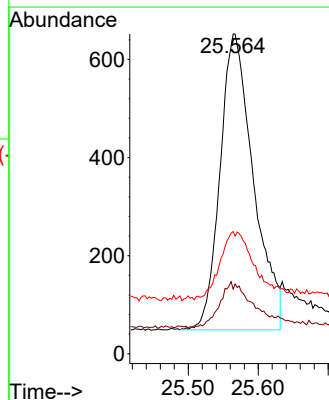
Delta R.T. -0.009 min

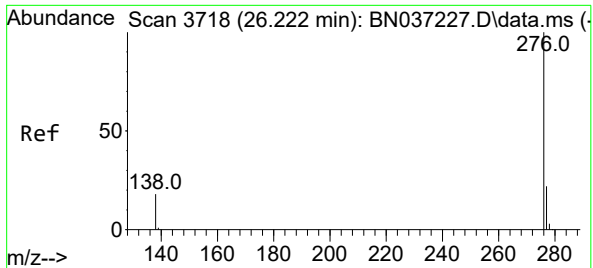
Lab File: BN037246.D

Acq: 14 Jun 2025 03:32



Tgt Ion:	278	Resp:	2000
Ion Ratio	Lower	Upper	
278	100		
139	20.2	17.8	26.6
279	38.2	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.369 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037246.D

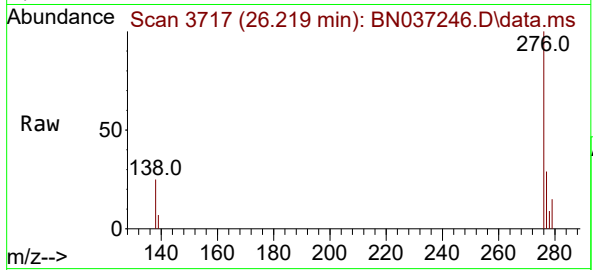
Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS



Tgt Ion:276 Resp: 242

Ion Ratio Lower Upper

276 100

277 28.5 22.0 33.0

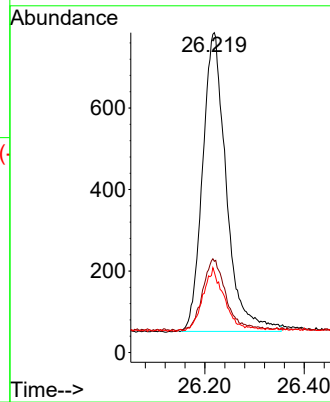
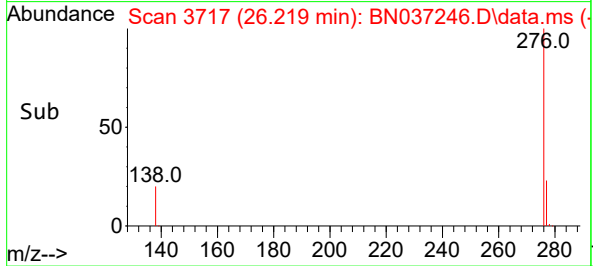
138 25.1 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/09/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/11/25
Client Sample ID:	TT191D1-20250609MSD	SDG No.:	Q2299
Lab Sample ID:	Q2299-04MSD	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
BN037247.D	1	06/13/25 08:03	06/14/25 04:08	PB168458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.30		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	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	888	7.575				
1146-65-2	Naphthalene-d8	2240	10.351				
15067-26-2	Acenaphthene-d10	1180	14.224				
1517-22-2	Phenanthrene-d10	2200	16.971				
1719-03-5	Chrysene-d12	1960	21.17				
1520-96-3	Perylene-d12	1970	23.357				

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\BN061325\
 Data File : BN037247.D
 Acq On : 14 Jun 2025 04:08
 Operator : RC/JU
 Sample : Q2299-04MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 14 05:09:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2241	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1184	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2199	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1956	0.400	ng	0.00
35) Perylene-d12	23.357	264	1969	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	288	0.132	ng	0.00
5) Phenol-d6	6.766	99	162	0.070	ng	0.00
8) Nitrobenzene-d5	8.728	82	616	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	831m	0.276	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	182	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1504	0.302	ng	0.00
27) Fluoranthene-d10	19.012	212	2166	0.376	ng	0.00
31) Terphenyl-d14	19.621	244	1884	0.426	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	2832	2.325	ng	# 87
3) n-Nitrosodimethylamine	3.422	42	510	0.184	ng	# 96
6) bis(2-Chloroethyl)ether	7.011	93	668	0.324	ng	98
9) Naphthalene	10.404	128	2101	0.324	ng	97
10) Hexachlorobutadiene	10.692	225	485	0.307	ng	# 95
12) 2-Methylnaphthalene	12.031	142	1206	0.306	ng	98
16) Acenaphthylene	13.946	152	2106	0.363	ng	99
17) Acenaphthene	14.288	154	1244	0.332	ng	98
18) Fluorene	15.282	166	1681	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	206	0.473	ng	86
21) 4-Bromophenyl-phenylether	16.177	248	538	0.375	ng	89
22) Hexachlorobenzene	16.288	284	573	0.345	ng	93
23) Atrazine	16.450	200	567	0.444	ng	92
24) Pentachlorophenol	16.636	266	614	0.754	ng	97
25) Phenanthrene	17.021	178	2705	0.388	ng	99
26) Anthracene	17.108	178	2547	0.399	ng	98
28) Fluoranthene	19.045	202	3333	0.408	ng	# 95
30) Pyrene	19.407	202	3474	0.378	ng	99
32) Benzo(a)anthracene	21.153	228	2751	0.417	ng	99
33) Chrysene	21.206	228	3522	0.428	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2078	0.422	ng	99
36) Indeno(1,2,3-cd)pyrene	25.549	276	3380	0.426	ng	99
37) Benzo(b)fluoranthene	22.705	252	3013	0.418	ng	99
38) Benzo(k)fluoranthene	22.749	252	3339	0.402	ng	98
39) Benzo(a)pyrene	23.266	252	2791	0.431	ng	96
40) Dibenzo(a,h)anthracene	25.564	278	2637	0.437	ng	95
41) Benzo(g,h,i)perylene	26.216	276	2894	0.393	ng	99

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

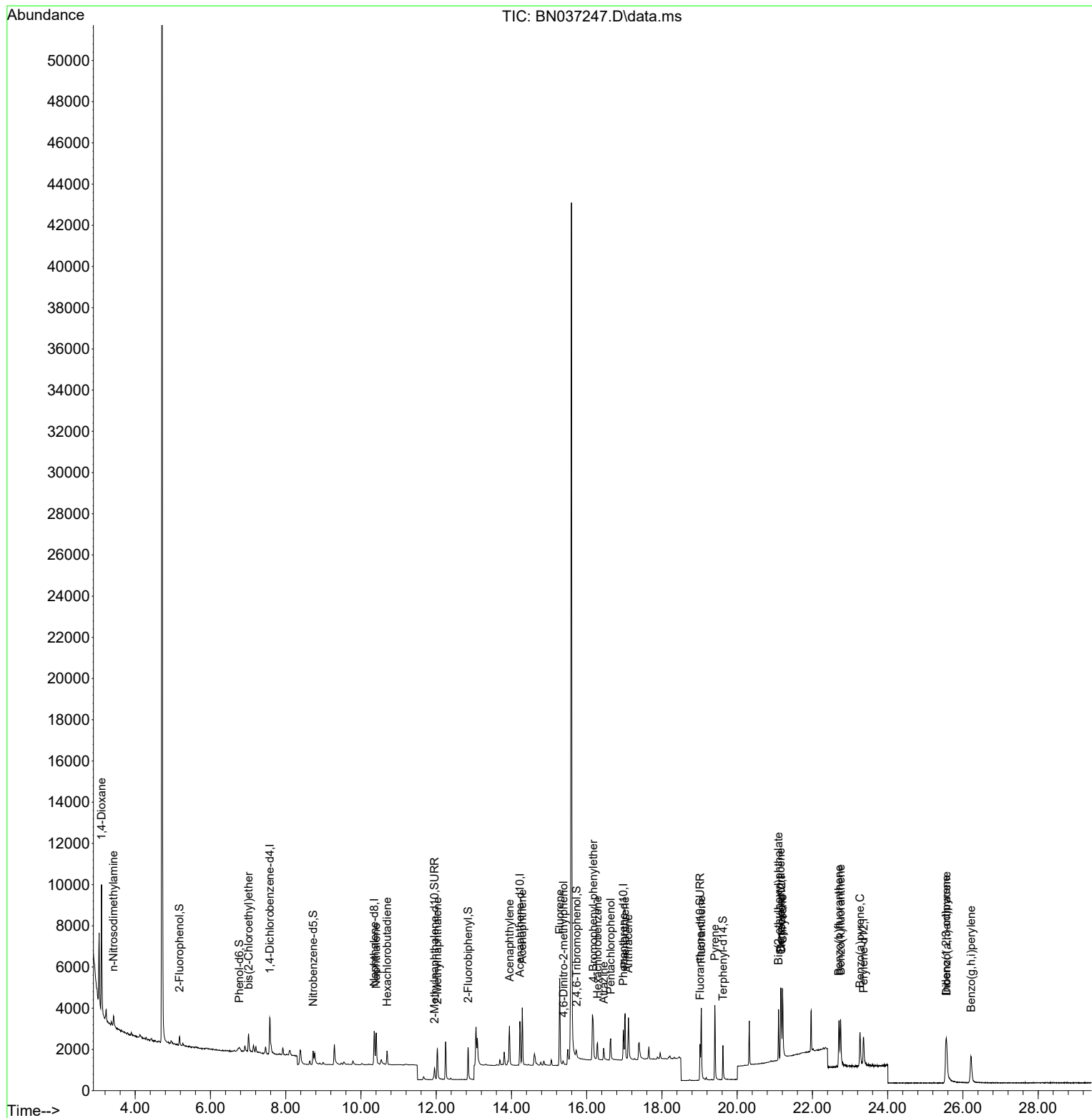
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

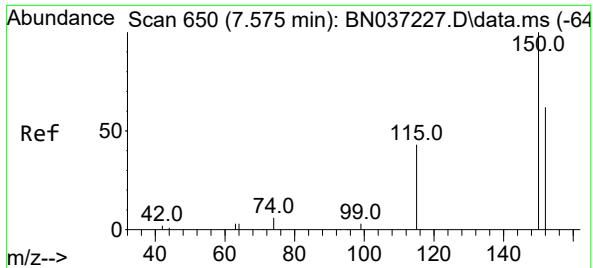
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

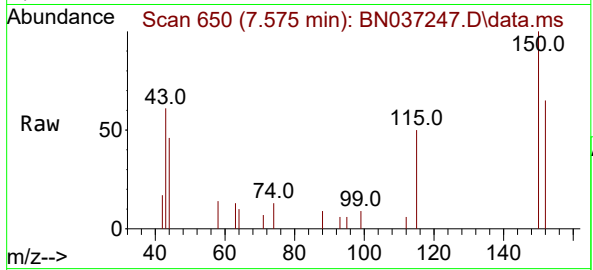
Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 650
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

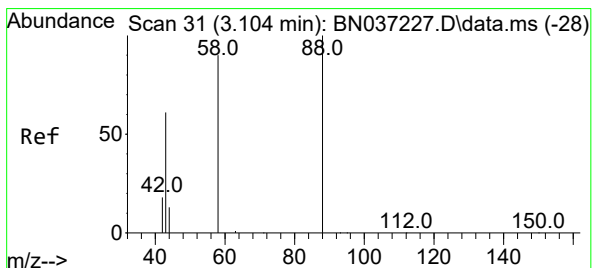
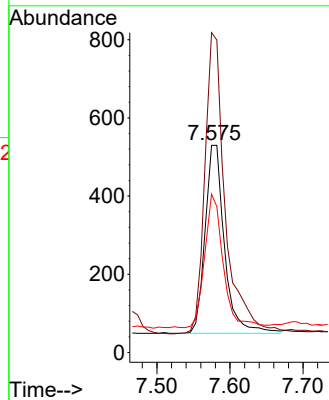
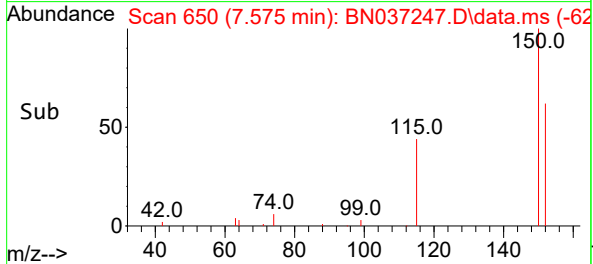
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion: 152 Resp: 888
Ion Ratio Lower Upper
152 100
150 154.3 125.2 187.8
115 76.4 58.4 87.6

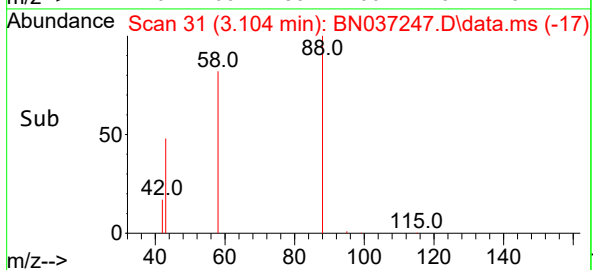
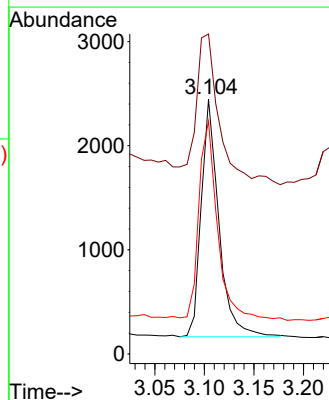
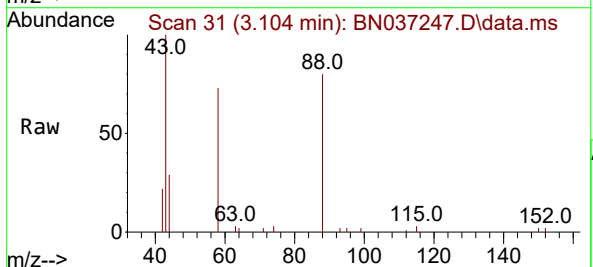
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

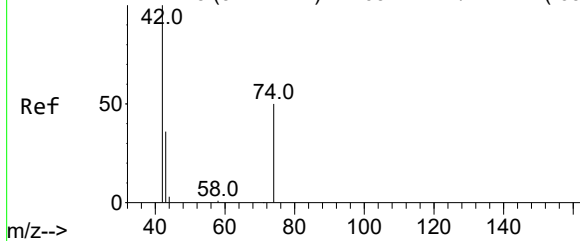


#2
1,4-Dioxane
Concen: 2.325 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 88 Resp: 2832
Ion Ratio Lower Upper
88 100
43 83.5 52.6 79.0#
58 85.5 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.184 ng

RT: 3.422 min Scan# 71

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

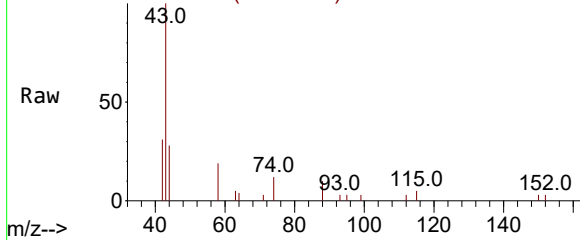
Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

Abundance Scan 75 (3.422 min): BN037247.D\data.ms



Tgt Ion:	42	Ratio	100	Lower	Upper
42	100				
74	58.2		44.6	66.8	
44	0.0		3.5	5.3	

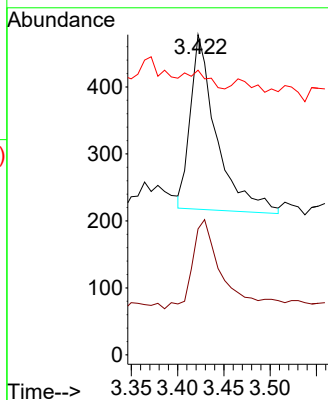
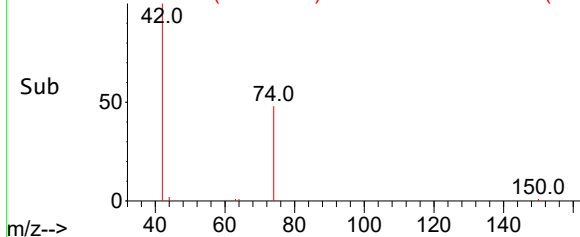
Manual Integrations

APPROVED

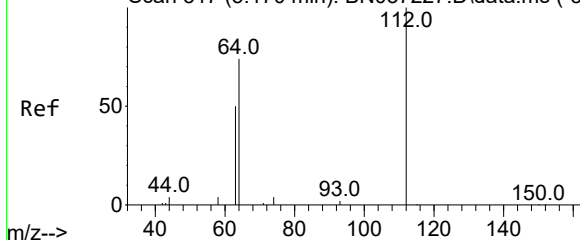
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 75 (3.422 min): BN037247.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.132 ng

RT: 5.177 min Scan# 318

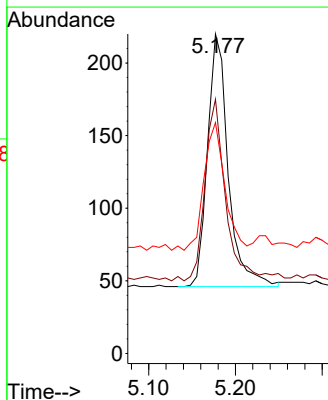
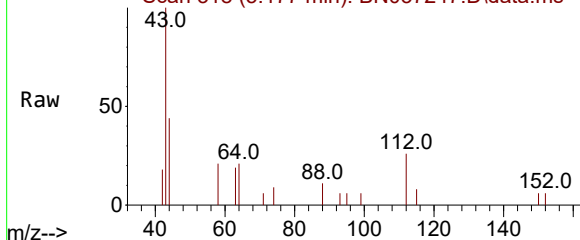
Delta R.T. 0.007 min

Lab File: BN037247.D

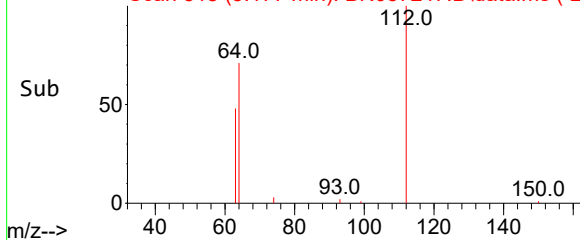
Acq: 14 Jun 2025 04:08

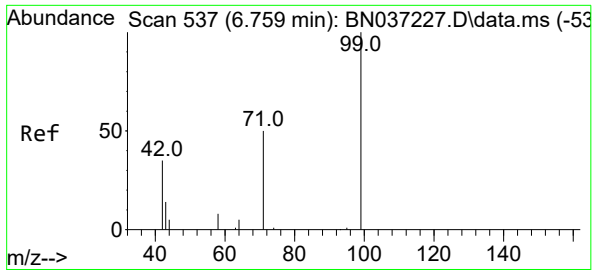
Tgt Ion:	112	Ratio	100	Lower	Upper
112	100				
64	73.3		57.2	85.8	
63	50.7		39.8	59.6	

Abundance Scan 318 (5.177 min): BN037247.D\data.ms



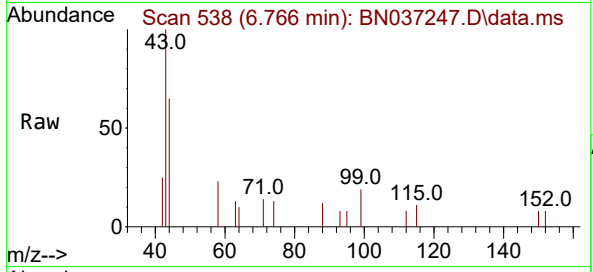
Abundance Scan 318 (5.177 min): BN037247.D\data.ms (-28)





#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

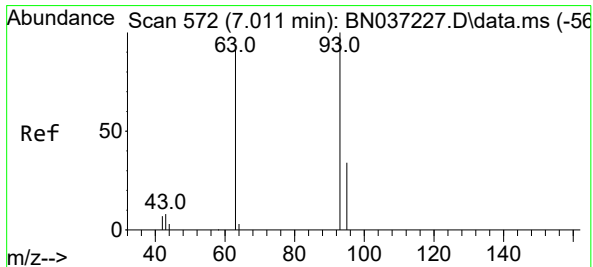
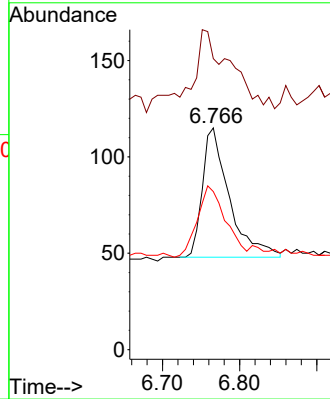
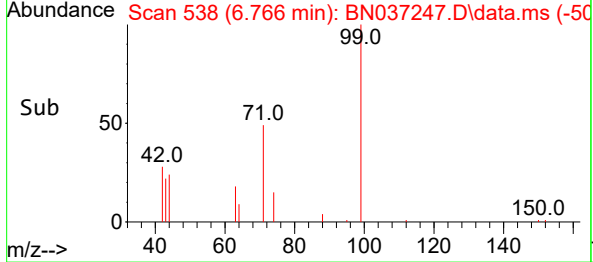
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion: 99 Resp: 162
Ion Ratio Lower Upper
99 100
42 62.3 36.2 54.4
71 58.0 42.4 63.6

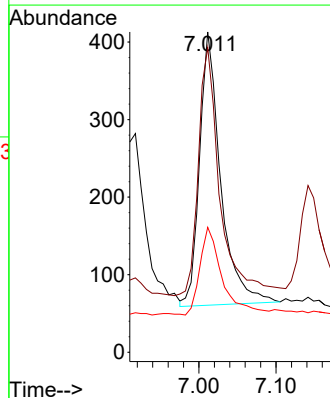
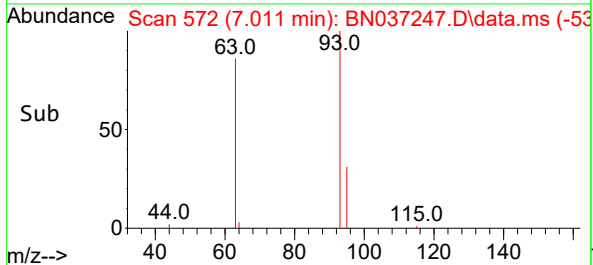
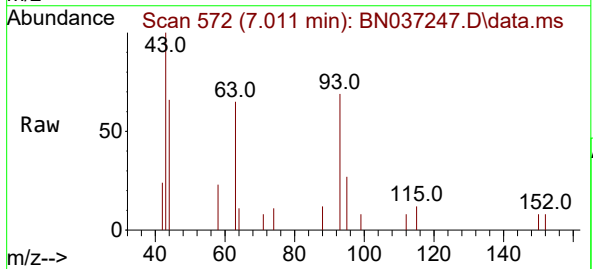
Manual Integrations
APPROVED

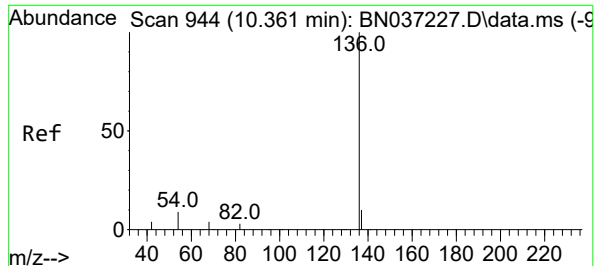
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.324 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

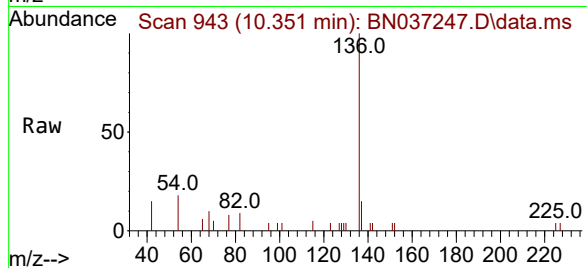
Tgt Ion: 93 Resp: 668
Ion Ratio Lower Upper
93 100
63 93.1 75.2 112.8
95 33.1 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

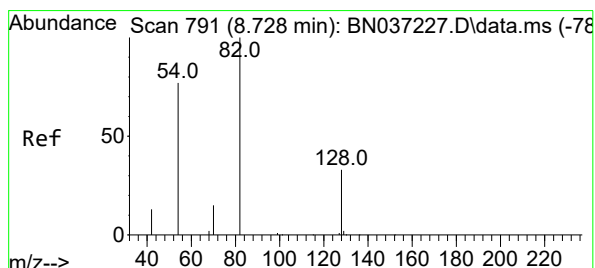
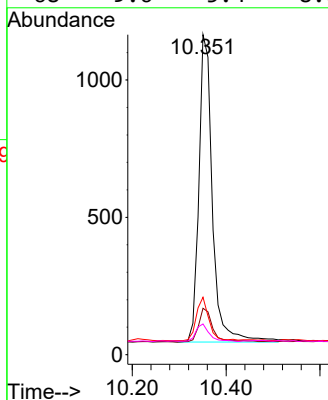
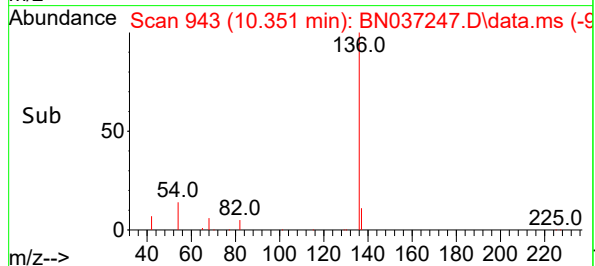
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion: 136 Resp: 224
Ion Ratio Lower Upper
136 100
137 14.5 10.6 15.8
54 17.9 9.2 13.8
68 9.6 5.4 8.0#

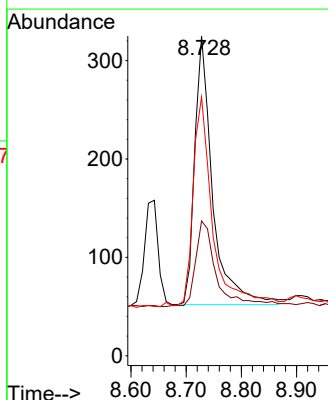
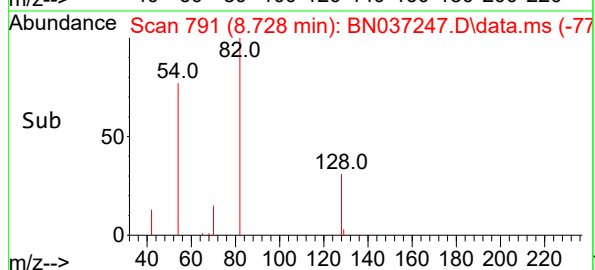
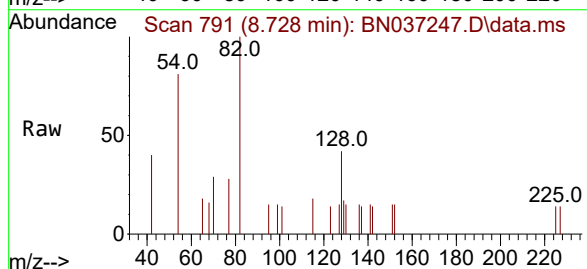
Manual Integrations
APPROVED

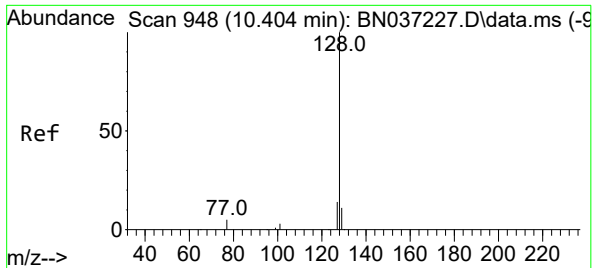
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

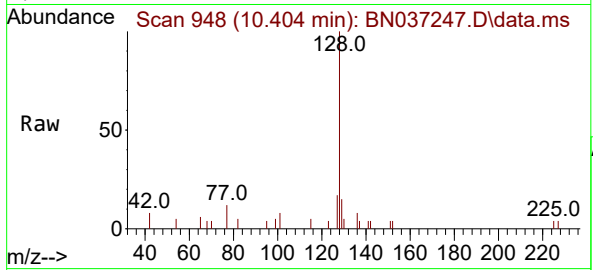
Tgt Ion: 82 Resp: 616
Ion Ratio Lower Upper
82 100
128 42.2 31.2 46.8
54 80.9 63.3 94.9





#9
Naphthalene
Concen: 0.324 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

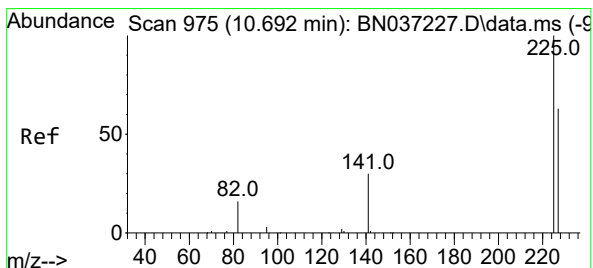
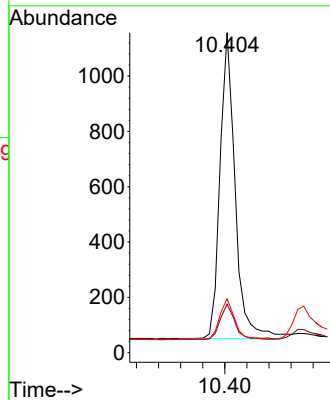
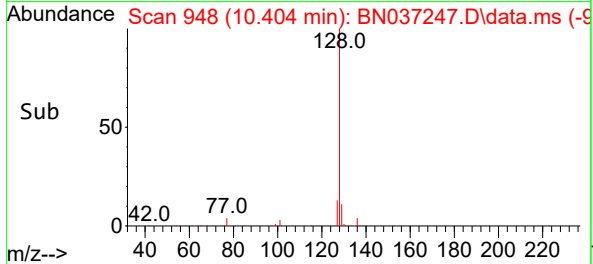
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:128 Resp: 210
Ion Ratio Lower Upper
128 100
129 15.1 10.7 16.1
127 16.9 12.6 19.0

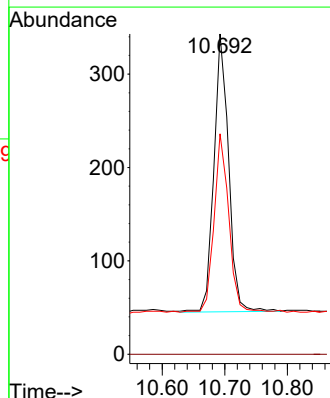
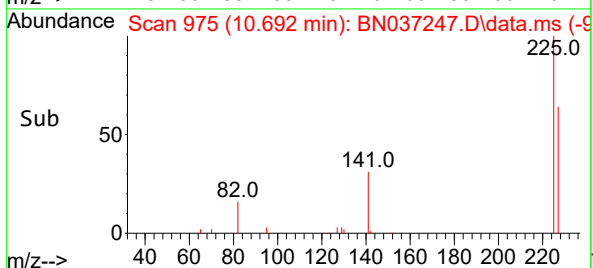
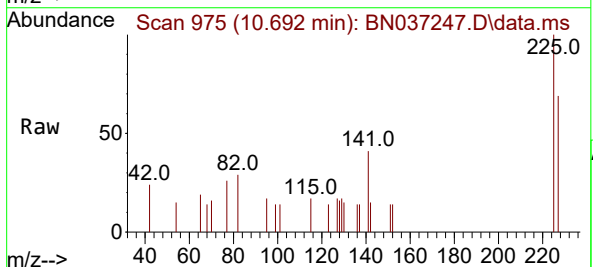
Manual Integrations
APPROVED

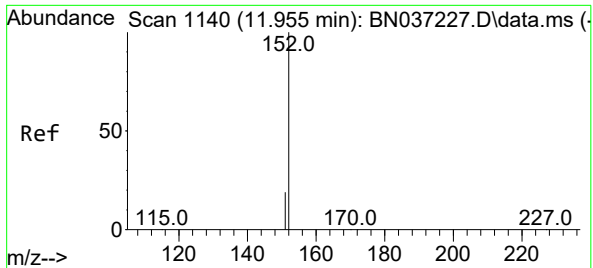
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.307 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

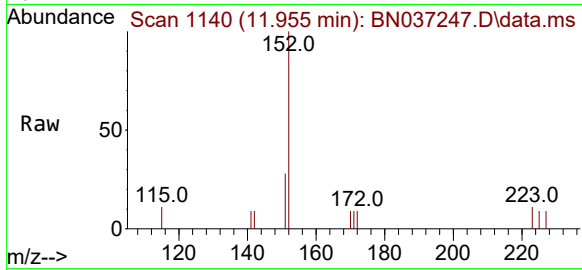
Tgt Ion:225 Resp: 485
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.276 ng m
RT: 11.955 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

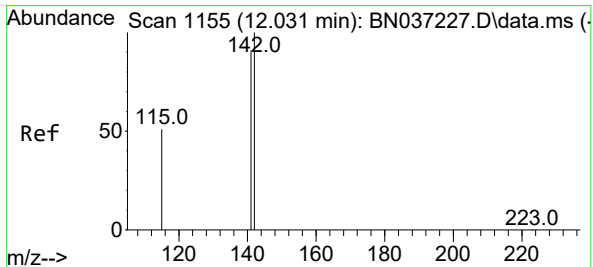
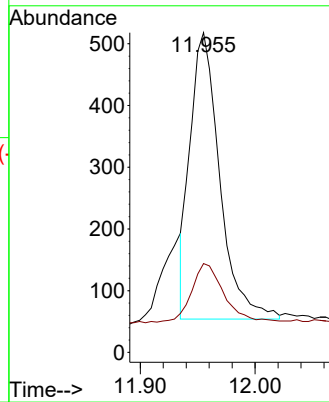
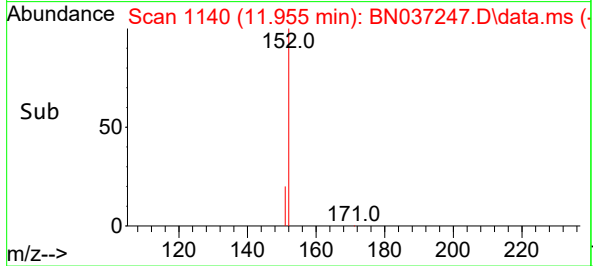
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



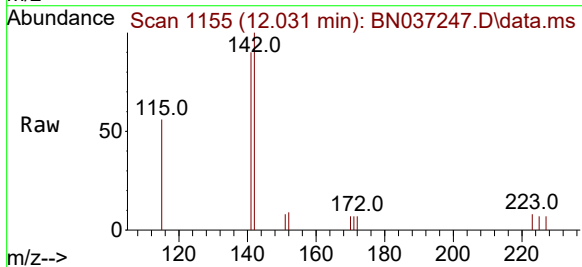
Tgt Ion:152 Resp: 83
Ion Ratio Lower Upper
152 100
151 23.2 17.9 26.9

Manual Integrations
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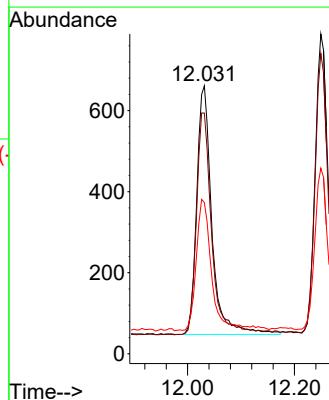
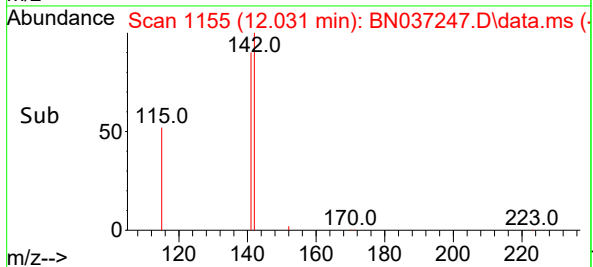
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

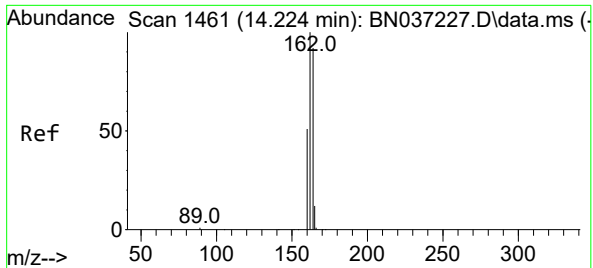


#12
2-Methylnaphthalene
Concen: 0.306 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08



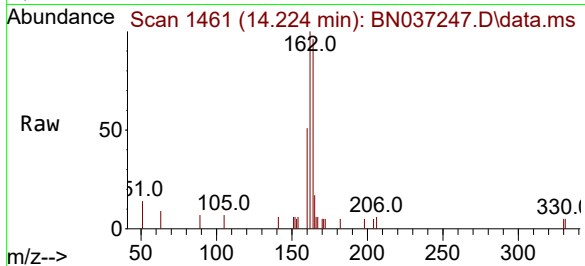
Tgt Ion:142 Resp: 1206
Ion Ratio Lower Upper
142 100
141 89.9 73.0 109.6
115 56.4 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

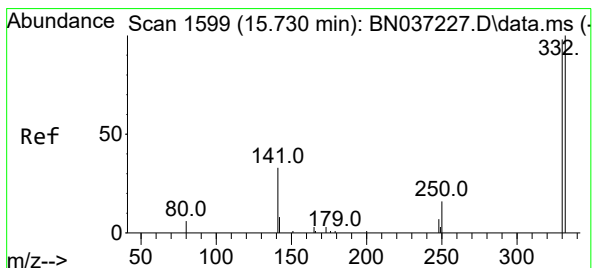
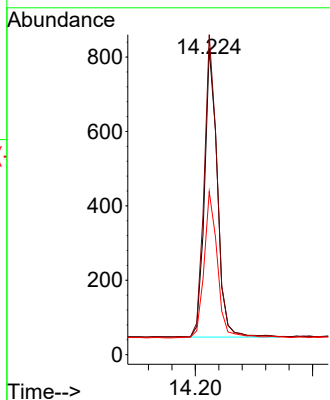
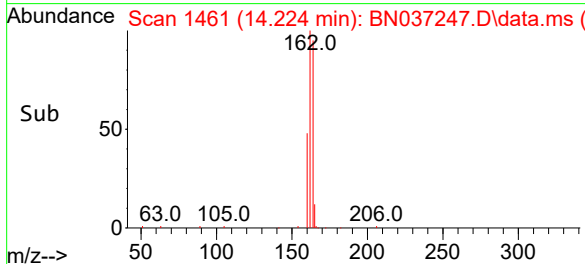
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



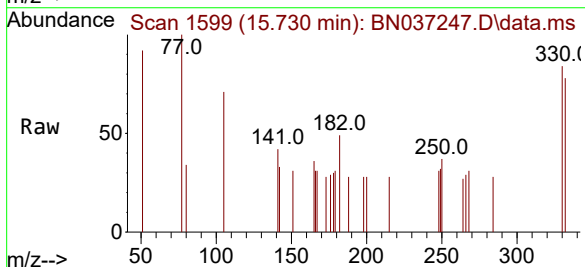
Tgt Ion:164 Resp: 1184
Ion Ratio Lower Upper
164 100
162 104.5 86.7 130.1
160 53.2 45.8 68.6

Manual Integrations
APPROVED

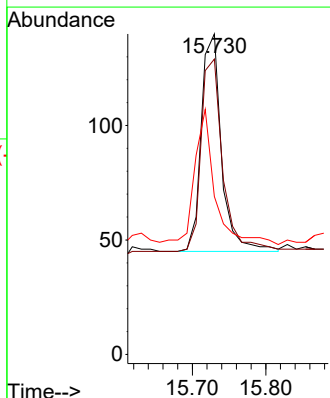
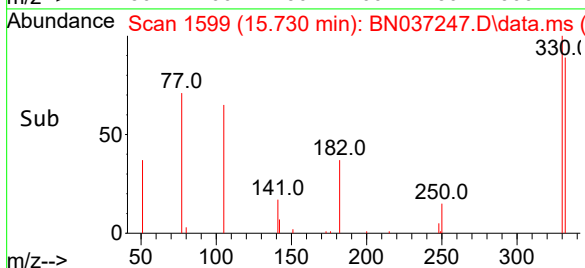
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

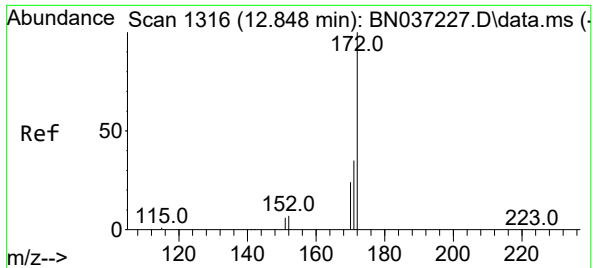


#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08



Tgt Ion:330 Resp: 182
Ion Ratio Lower Upper
330 100
332 96.7 74.9 112.3
141 62.6 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.302 ng

RT: 12.848 min Scan# 1316

Delta R.T. -0.000 min

Lab File: BN037247.D

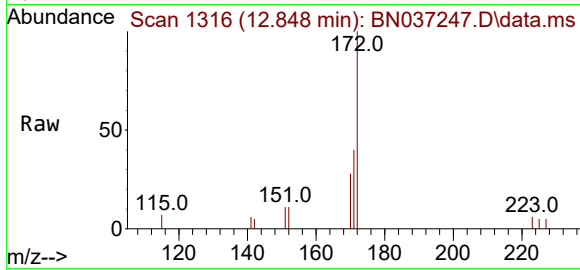
Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

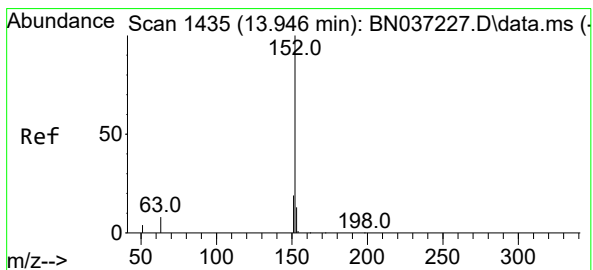
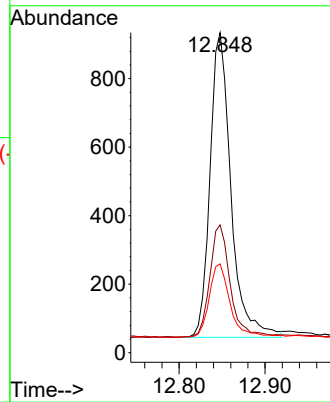
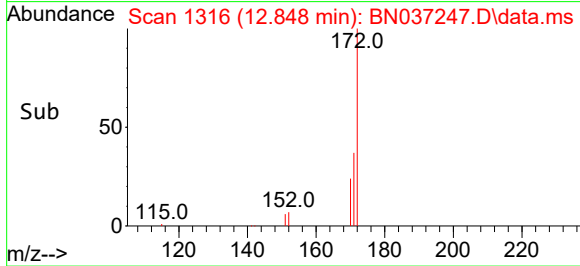


Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.9	29.8	44.8
170	27.7	21.1	31.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025



#16

Acenaphthylene

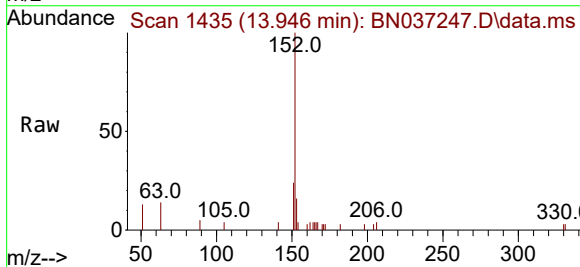
Concen: 0.363 ng

RT: 13.946 min Scan# 1435

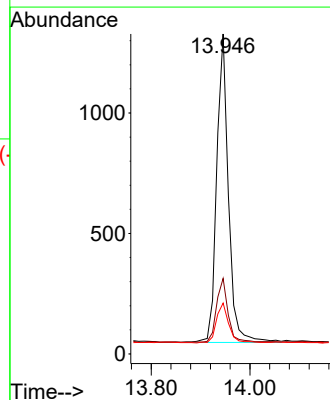
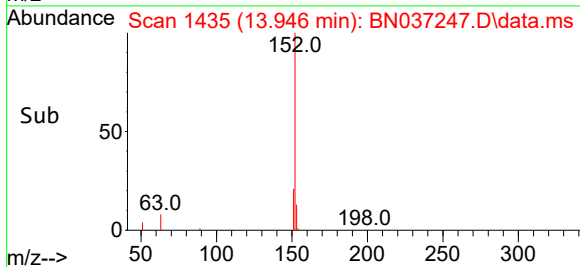
Delta R.T. -0.000 min

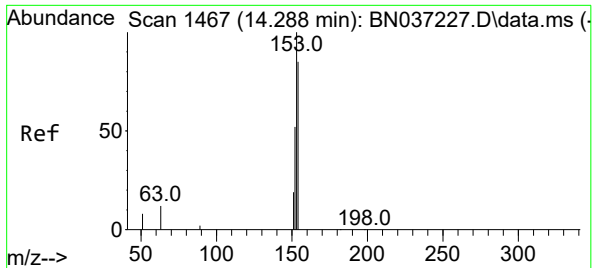
Lab File: BN037247.D

Acq: 14 Jun 2025 04:08



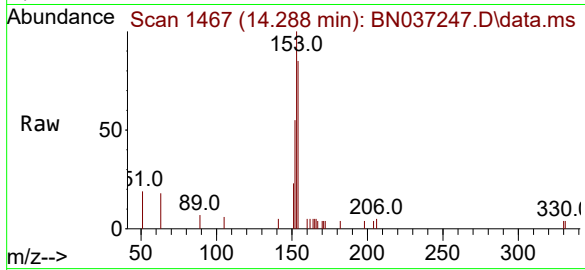
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.6	10.7	16.1





#17
Acenaphthene
Concen: 0.332 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

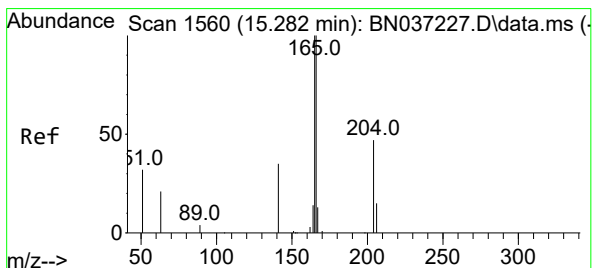
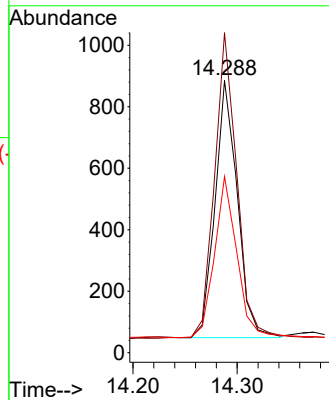
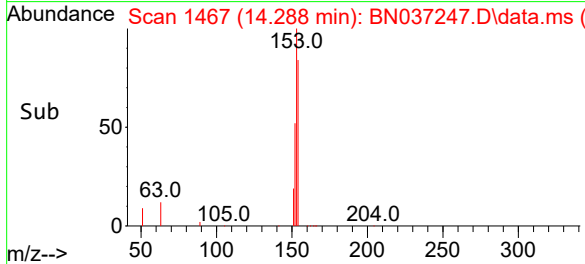
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:154 Resp: 1244
Ion Ratio Lower Upper
154 100
153 119.7 94.6 141.8
152 64.1 49.6 74.4

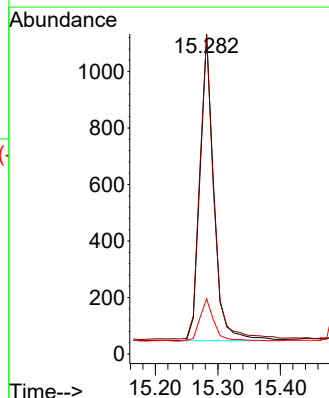
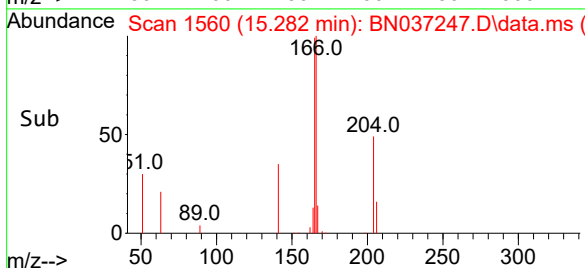
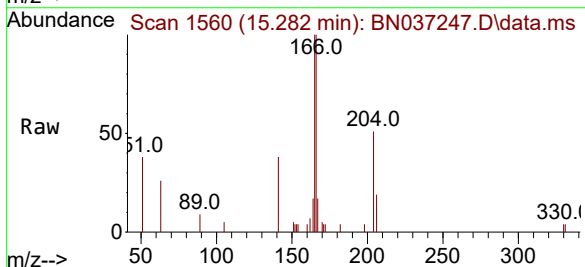
Manual Integrations
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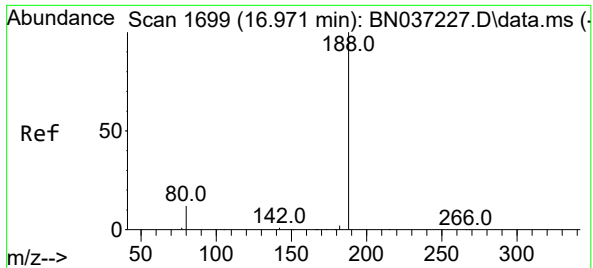
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.349 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:166 Resp: 1681
Ion Ratio Lower Upper
166 100
165 99.1 79.8 119.6
167 13.9 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

Tgt Ion:188 Resp: 2199

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

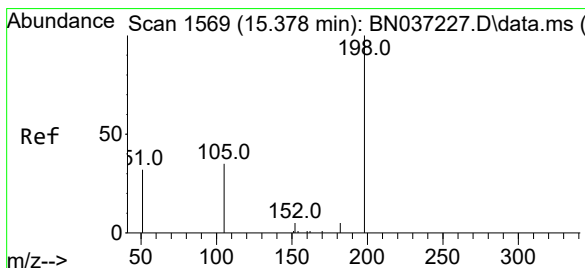
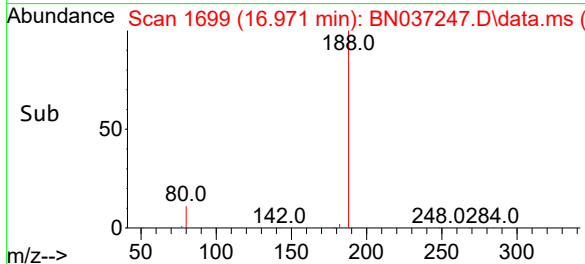
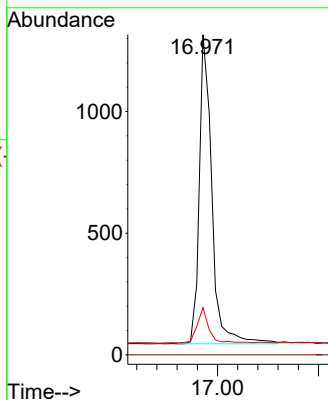
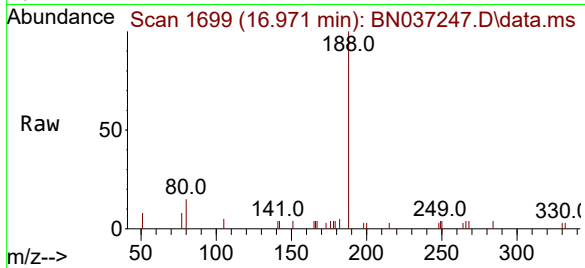
80 14.7 12.2 18.4

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.473 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

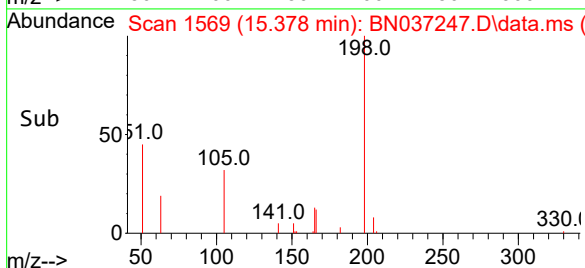
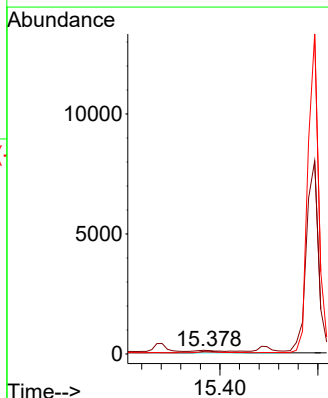
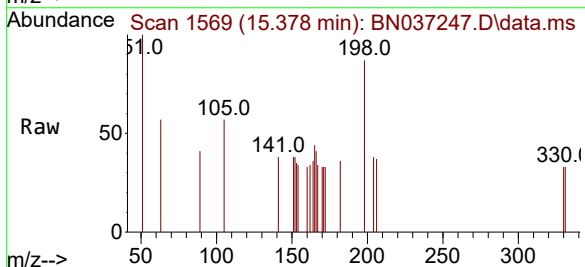
Tgt Ion:198 Resp: 206

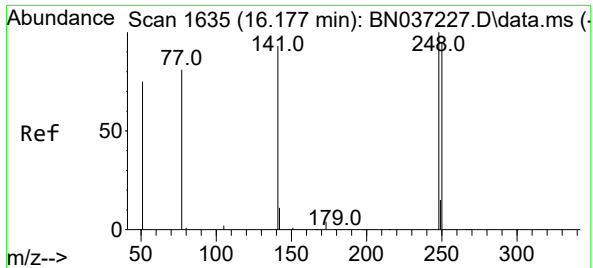
Ion Ratio Lower Upper

198 100

51 115.0 111.2 166.8

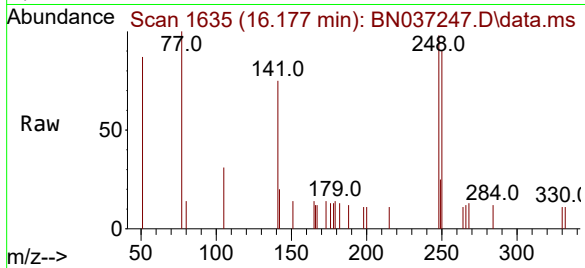
105 65.8 54.0 81.0





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

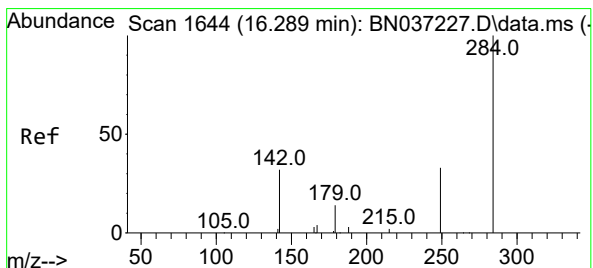
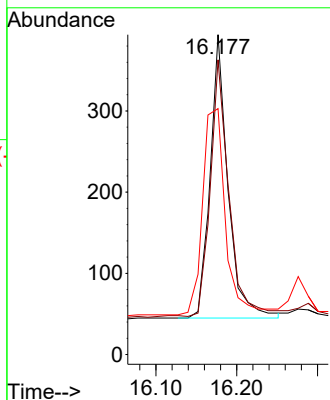
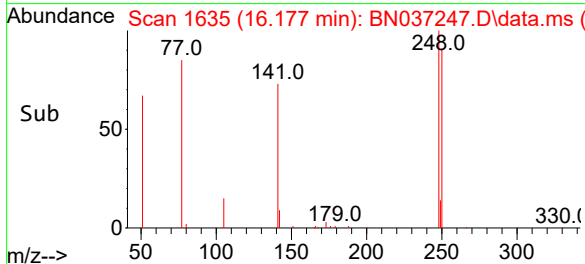
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:248 Resp: 538
Ion Ratio Lower Upper
248 100
250 92.1 76.8 115.2
141 76.9 75.6 113.4

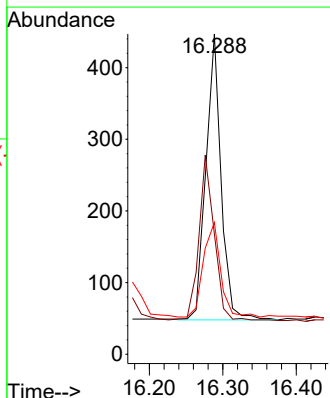
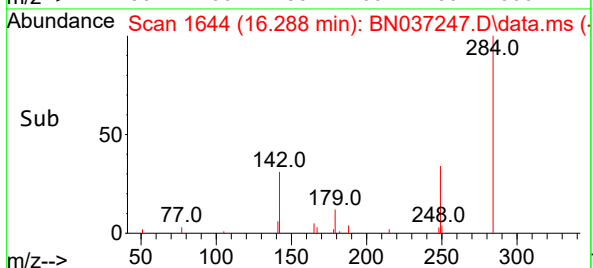
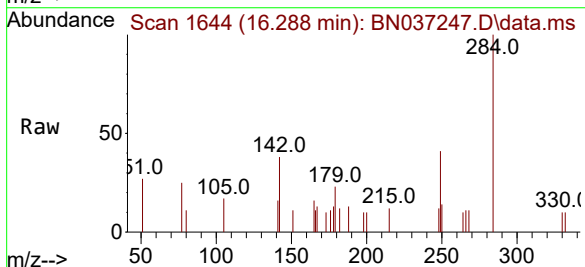
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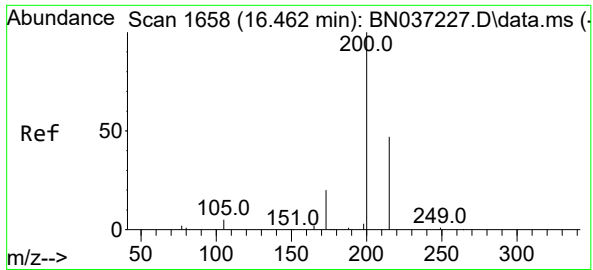
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:284 Resp: 573
Ion Ratio Lower Upper
284 100
142 58.3 43.8 65.6
249 42.1 28.4 42.6





#23

Atrazine

Concen: 0.444 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

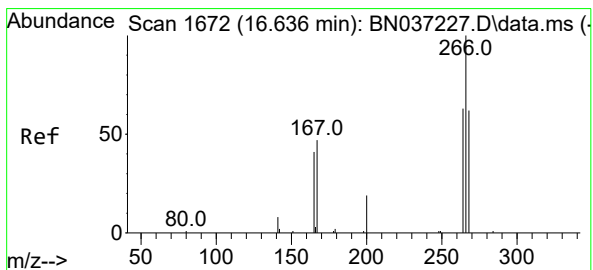
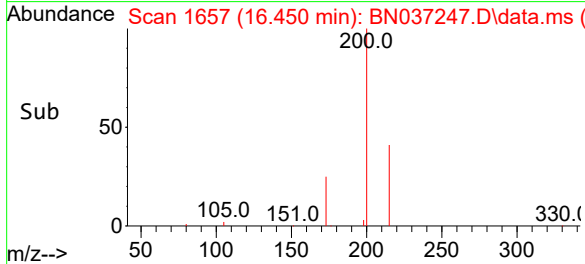
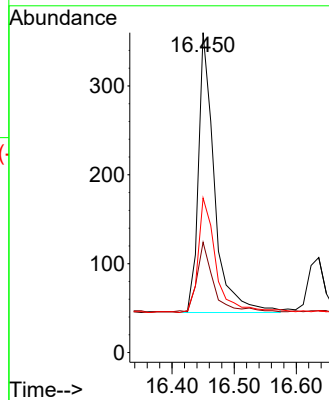
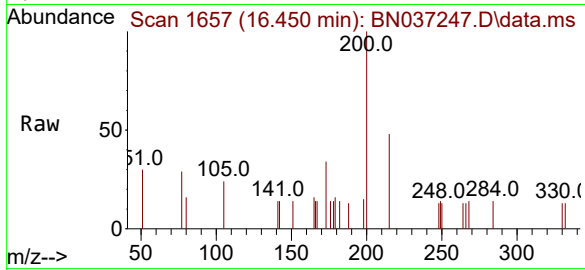
Tgt Ion:200 Resp: 561

Ion	Ratio	Lower	Upper
200	100		
173	34.4	25.1	37.7
215	48.3	43.7	65.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#24

Pentachlorophenol

Concen: 0.754 ng

RT: 16.636 min Scan# 1672

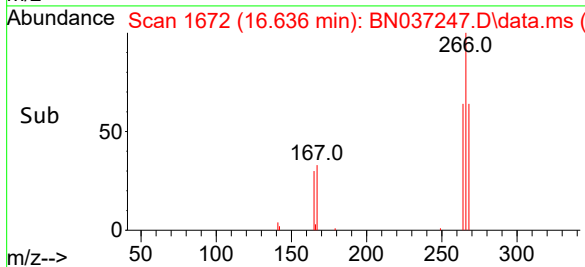
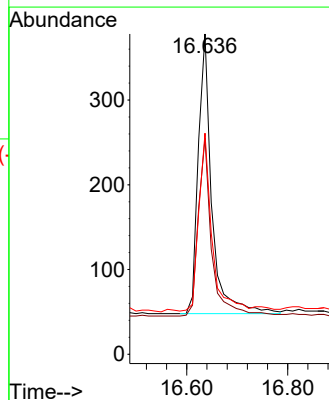
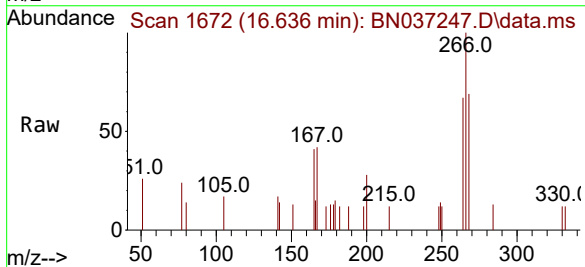
Delta R.T. -0.000 min

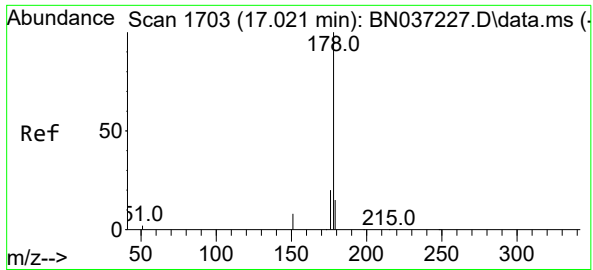
Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Tgt Ion:266 Resp: 614

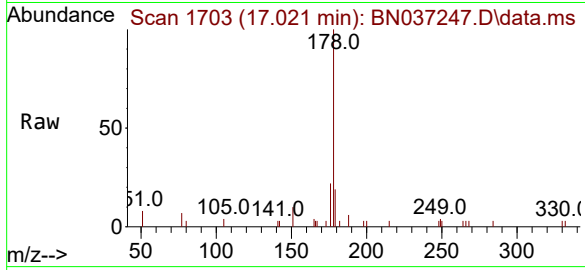
Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	63.4	53.4	80.2





#25
Phenanthrene
Concen: 0.388 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

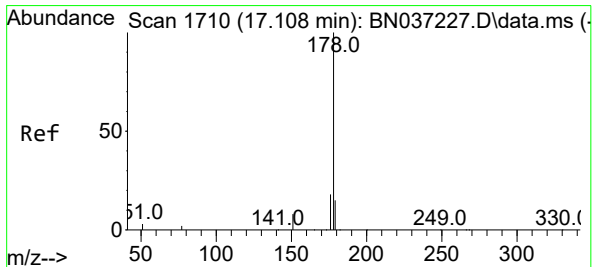
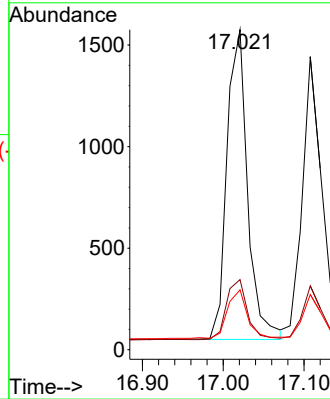
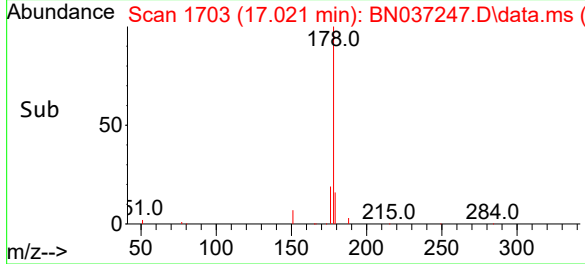
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:178 Resp: 2709
Ion Ratio Lower Upper
178 100
176 19.6 16.3 24.5
179 15.6 12.6 18.8

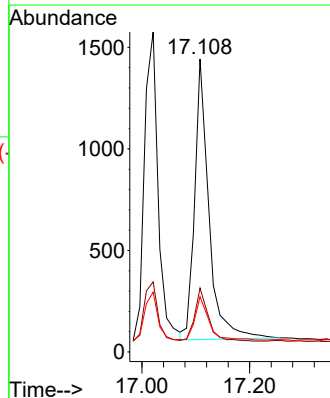
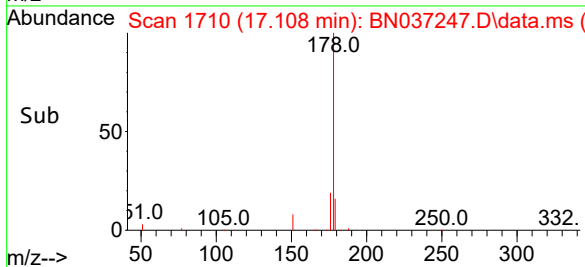
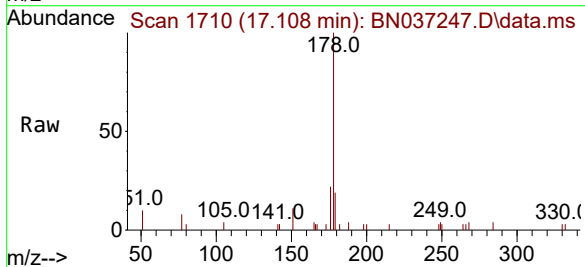
Manual Integrations
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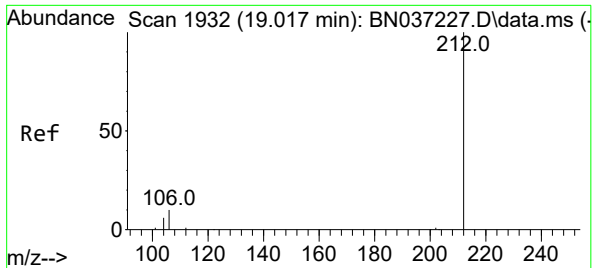
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26
Anthracene
Concen: 0.399 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:178 Resp: 2547
Ion Ratio Lower Upper
178 100
176 18.0 15.1 22.7
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.376 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

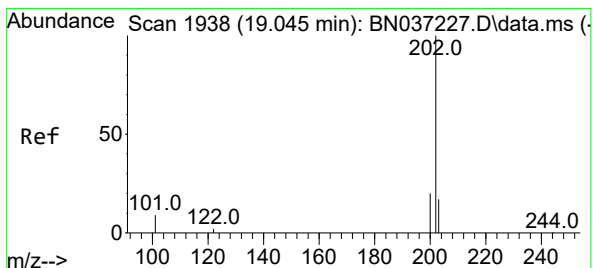
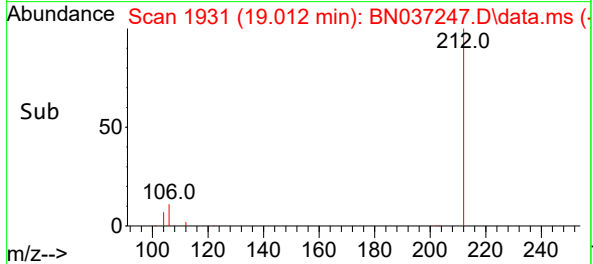
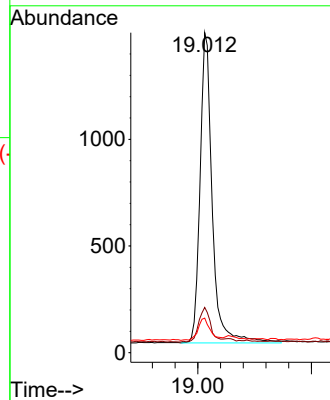
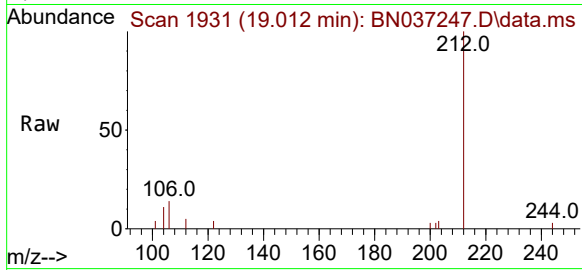
TT191D1-20250609MSD

Tgt Ion:	212	Resp:	2160
Ion Ratio	Lower	Upper	
212	100		
106	10.8	9.3	13.9
104	7.1	5.7	8.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.408 ng

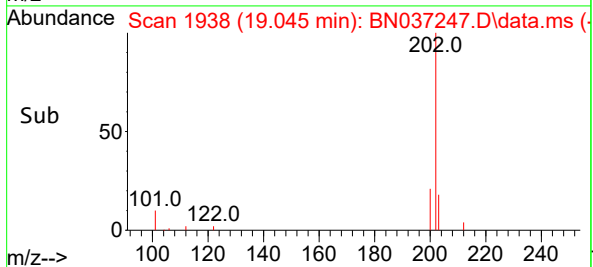
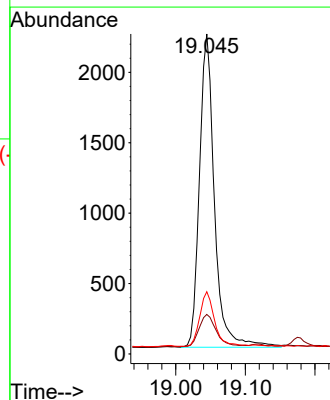
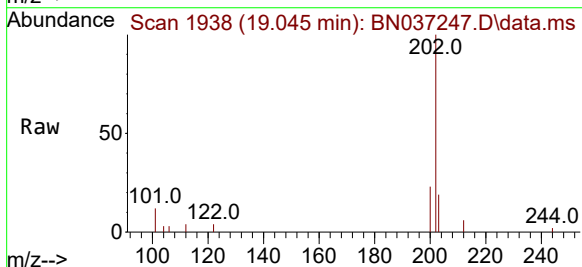
RT: 19.045 min Scan# 1938

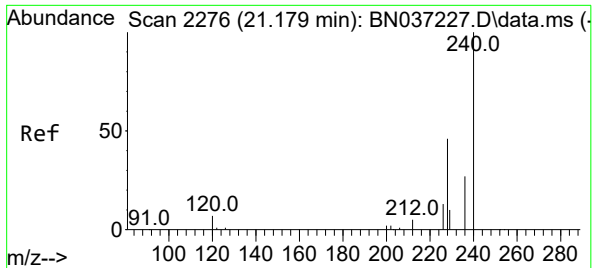
Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

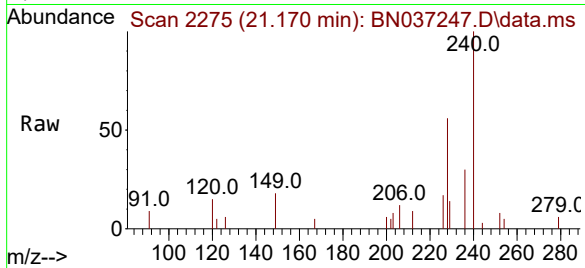
Tgt Ion:	202	Resp:	3333
Ion Ratio	Lower	Upper	
202	100		
101	12.3	7.1	10.7#
203	17.1	13.0	19.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.170 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

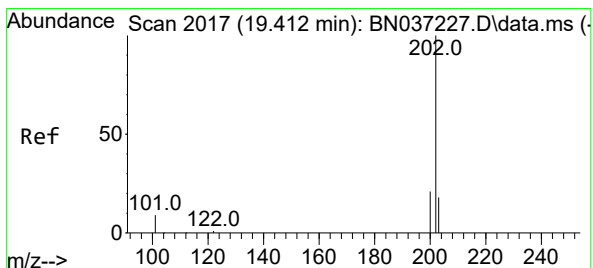
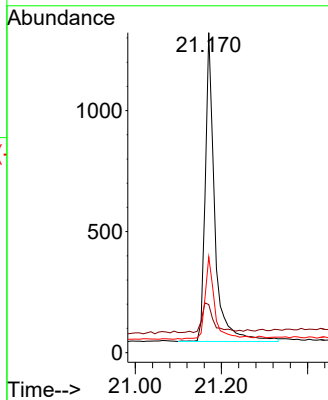
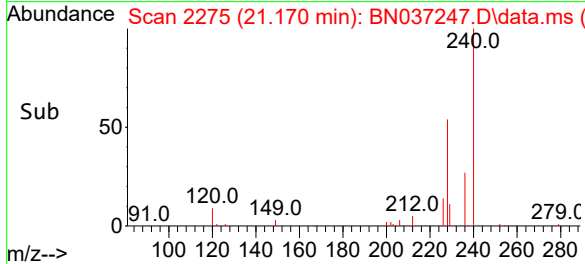
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:240 Resp: 1950
Ion Ratio Lower Upper
240 100
120 15.1 11.3 16.9
236 30.0 24.4 36.6

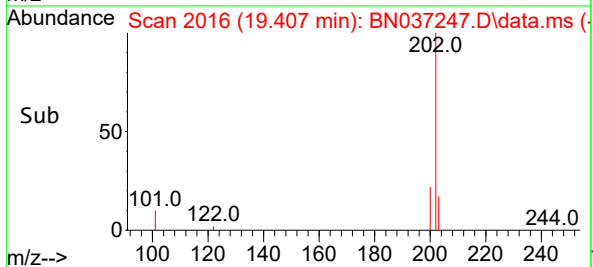
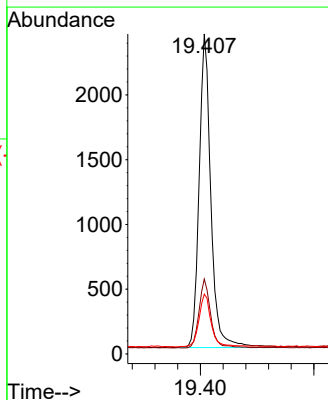
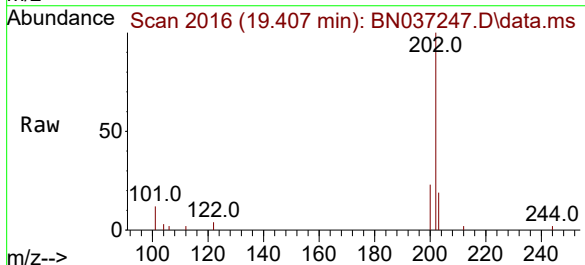
Manual Integrations
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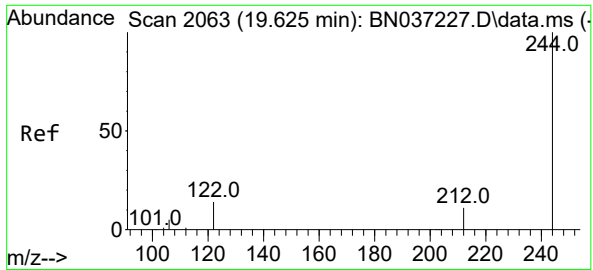
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30
Pyrene
Concen: 0.378 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

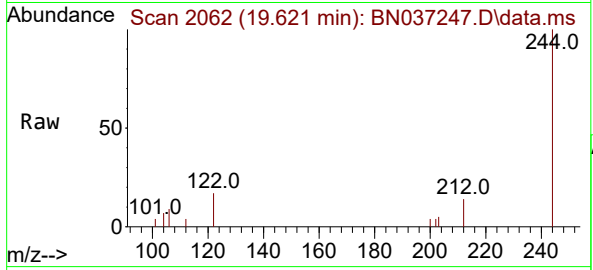
Tgt Ion:202 Resp: 3474
Ion Ratio Lower Upper
202 100
200 21.7 17.2 25.8
203 17.5 14.3 21.5





#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

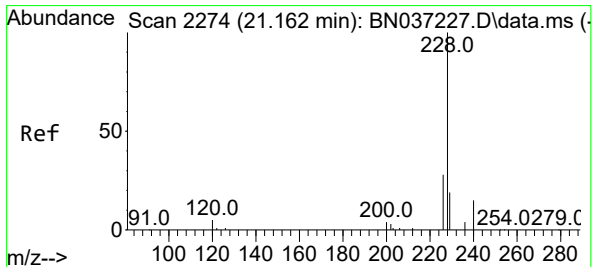
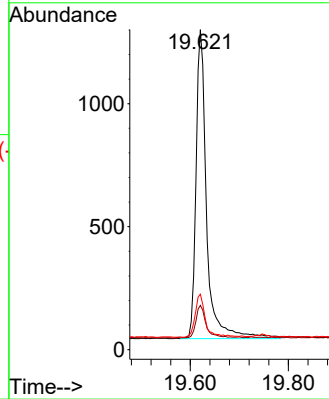
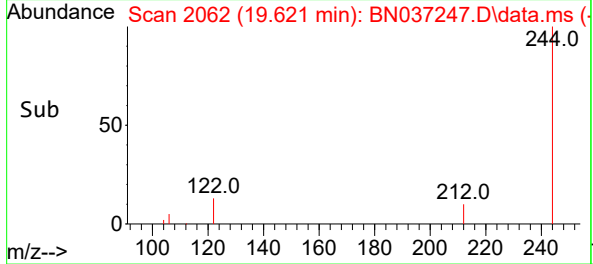
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:244 Resp: 1884
Ion Ratio Lower Upper
244 100
212 13.8 12.2 18.2
122 17.4 14.3 21.5

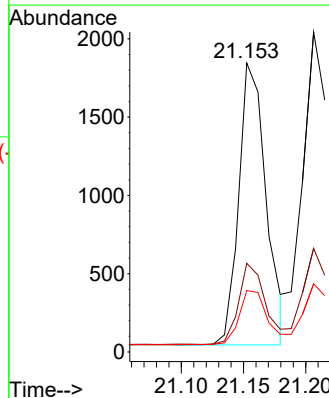
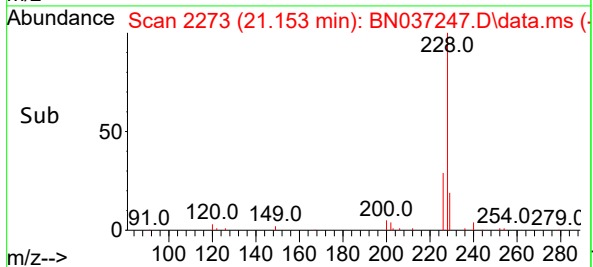
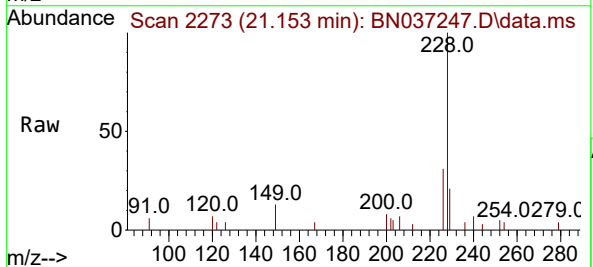
Manual Integrations
APPROVED

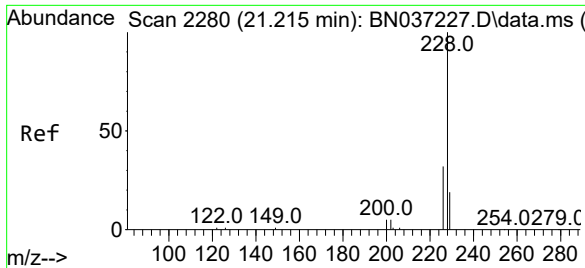
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:228 Resp: 2751
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 21.3 17.0 25.4





#33

Chrysene

Concen: 0.428 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037247.D

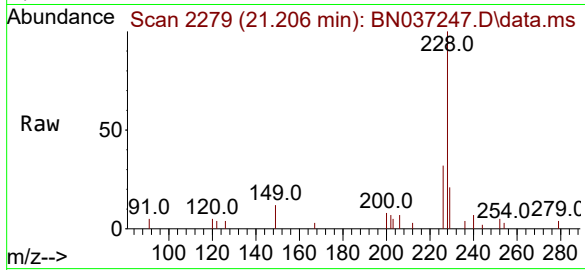
Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

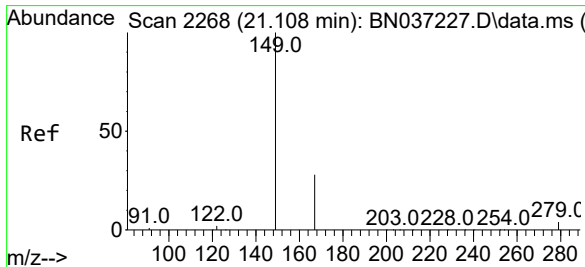
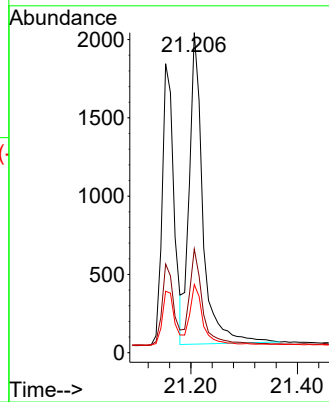
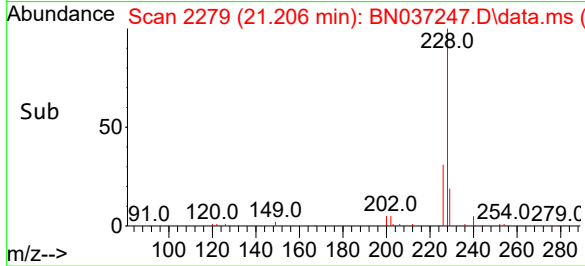


Tgt Ion:	228	Resp:	352
Ion Ratio	Lower	Upper	
228	100		
226	32.4	25.8	38.6
229	21.3	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#34

Bis(2-ethylhexyl)phthalate

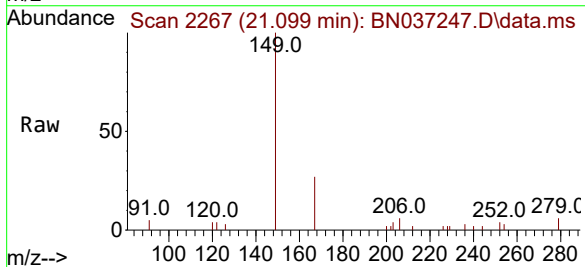
Concen: 0.422 ng

RT: 21.099 min Scan# 2267

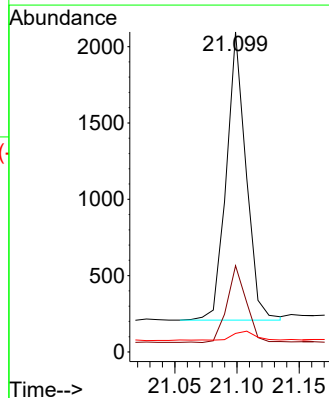
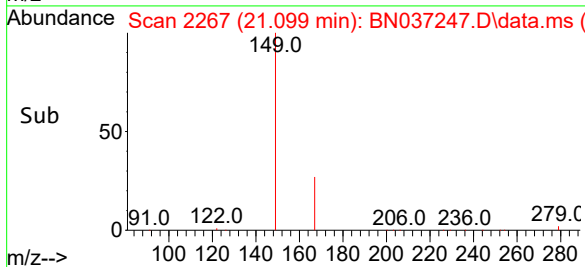
Delta R.T. -0.009 min

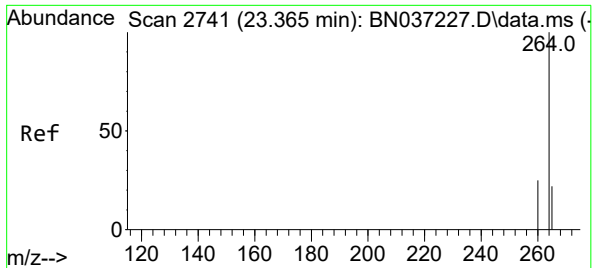
Lab File: BN037247.D

Acq: 14 Jun 2025 04:08



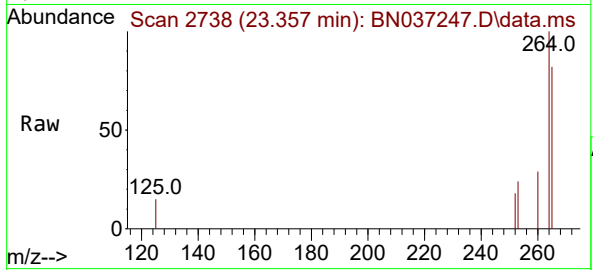
Tgt Ion:	149	Resp:	2078
Ion Ratio	Lower	Upper	
149	100		
167	26.0	21.3	31.9
279	4.0	3.3	4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

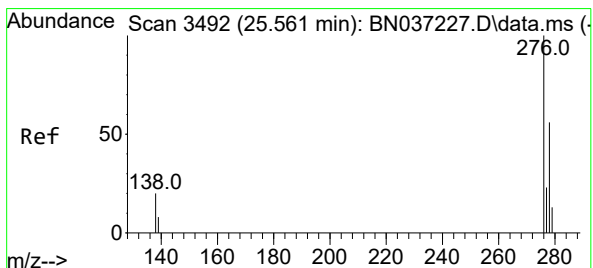
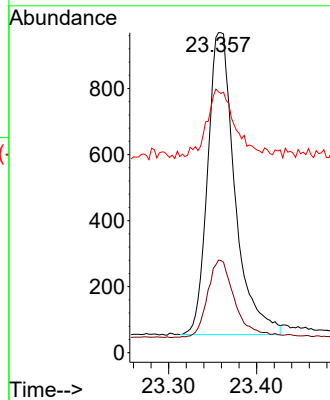
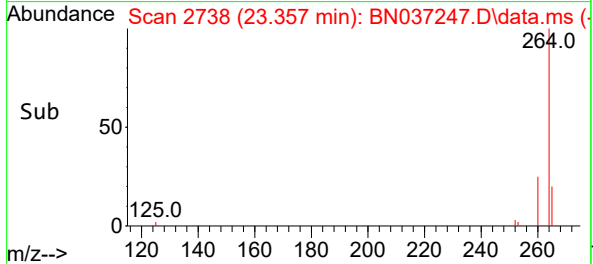
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:264 Resp: 1969
Ion Ratio Lower Upper
264 100
260 28.9 22.8 34.2
265 81.5 66.4 99.6

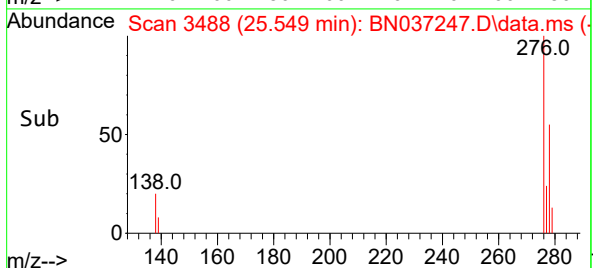
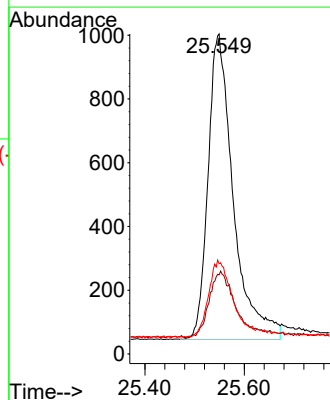
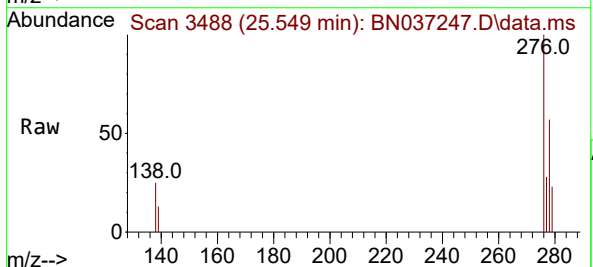
Manual Integrations
APPROVED

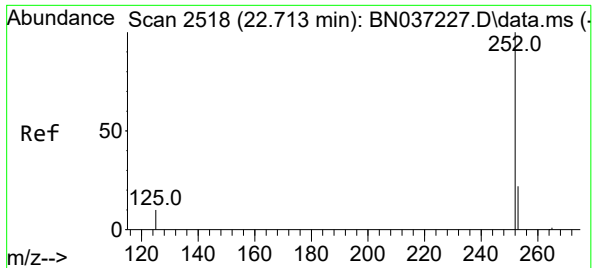
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:276 Resp: 3380
Ion Ratio Lower Upper
276 100
138 21.5 16.8 25.2
277 24.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.418 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN037247.D

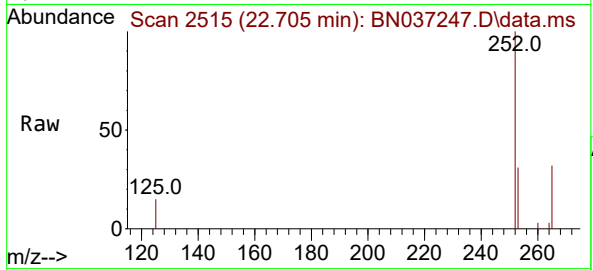
Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD



Tgt Ion:252 Resp: 301

Ion Ratio Lower Upper

252 100

253 30.8 24.9 37.3

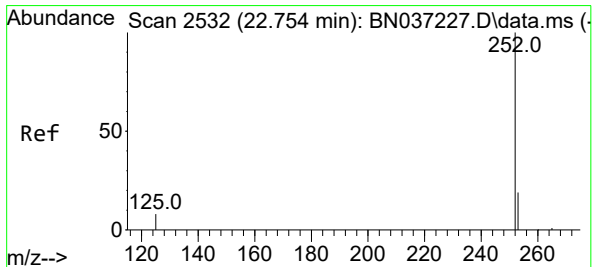
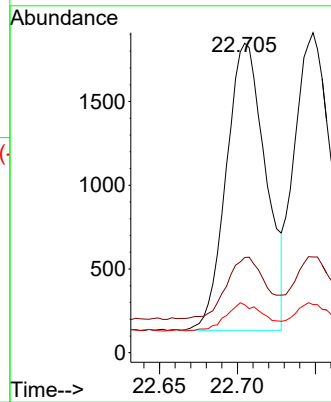
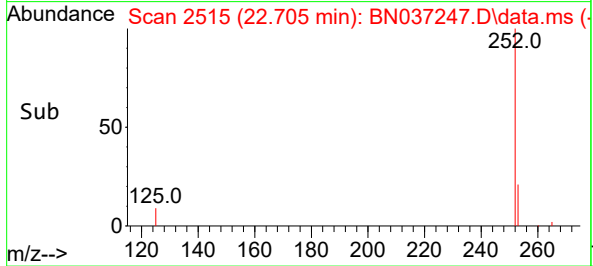
125 15.5 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

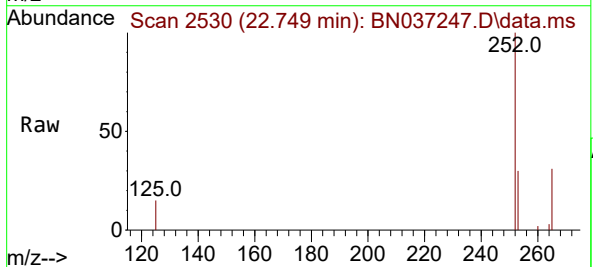
Concen: 0.402 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08



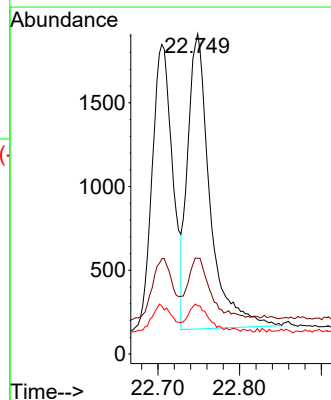
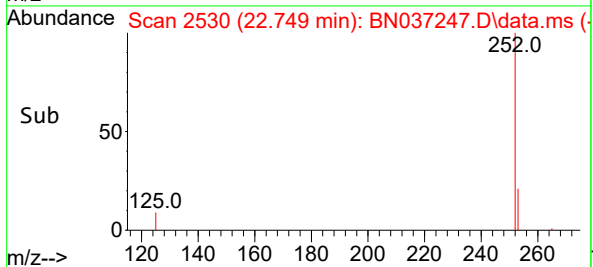
Tgt Ion:252 Resp: 3339

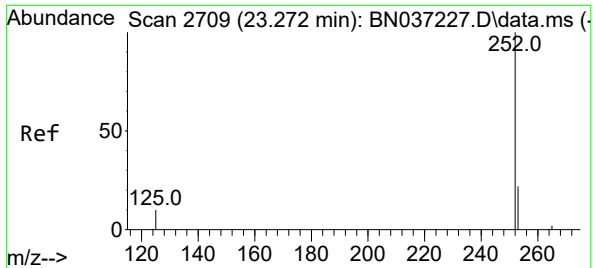
Ion Ratio Lower Upper

252 100

253 29.9 24.6 37.0

125 15.1 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.431 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

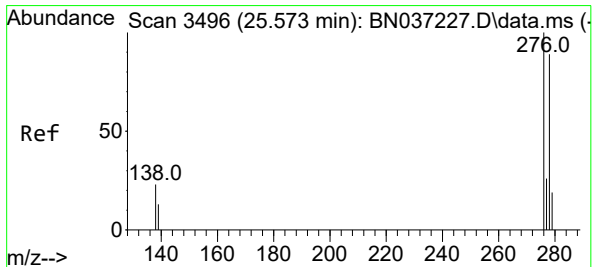
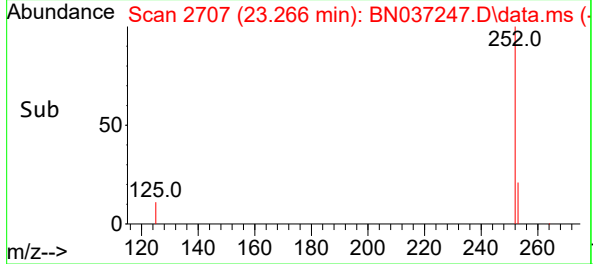
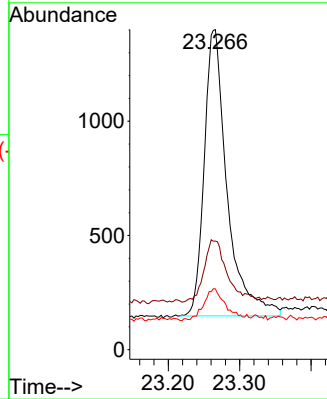
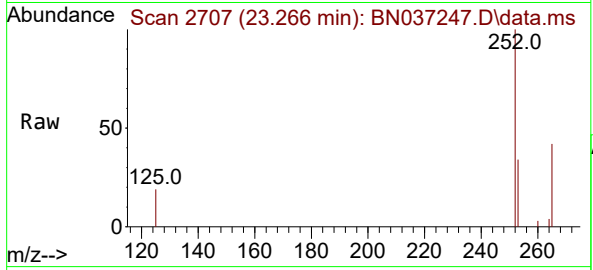
TT191D1-20250609MSD

Tgt Ion:	252	Resp:	279
Ion	Ratio	Lower	Upper
252	100		
253	34.0	29.4	44.2
125	19.0	16.2	24.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.437 ng

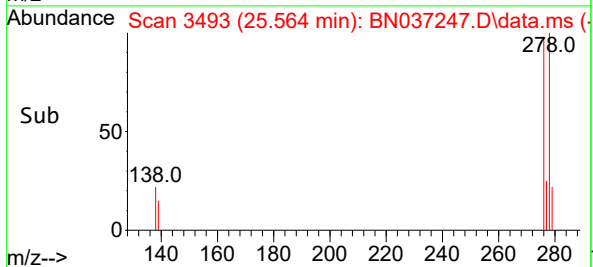
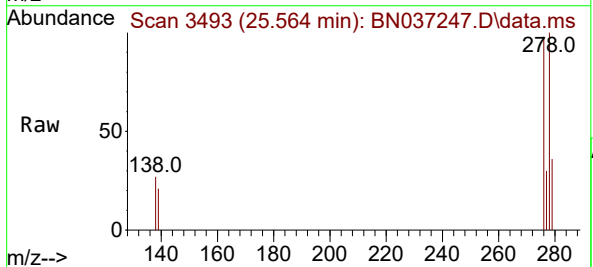
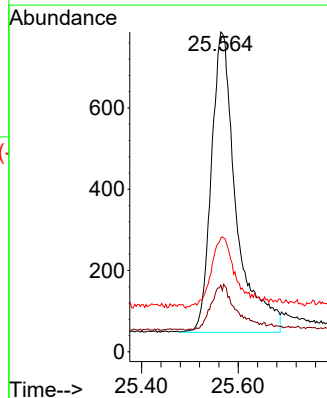
RT: 25.564 min Scan# 3493

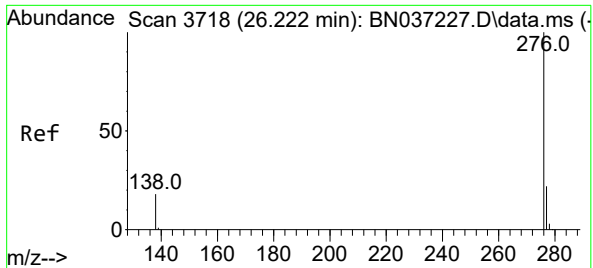
Delta R.T. -0.009 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Tgt Ion:	278	Resp:	2637
Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.8	26.6
279	35.6	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.393 ng

RT: 26.216 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037247.D

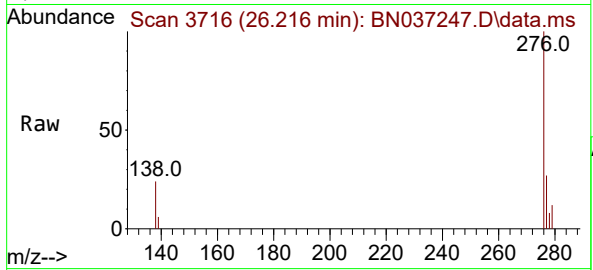
Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD



Tgt Ion:276 Resp: 2894

Ion Ratio Lower Upper

276 100

277 27.0 22.0 33.0

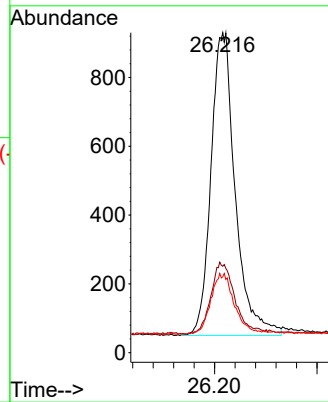
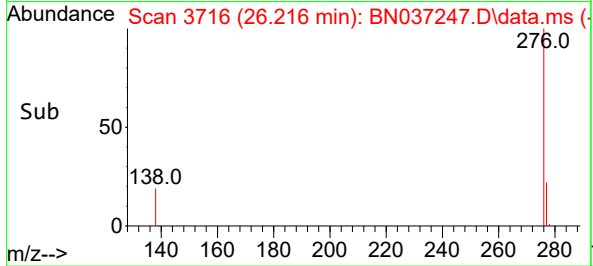
138 23.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Manual Integration Report

Sequence:

BN061325

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037225.D	Benzo(k)fluoranthene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
SSTDICC0.1	BN037225.D	Dibenzo(a,h)anthracene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
Q2299-03MS	BN037246.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:02:44 AM	Jagrut	6/16/2025 10:16:56 AM	Peak Integrated by Software
Q2299-04MSD	BN037247.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:03:18 AM	Jagrut	6/16/2025 10:16:58 AM	Peak Integrated by Software
PB168458BS	BN037270.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:03:58 AM	Jagrut	6/16/2025 10:17:01 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN061625

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037223.D	13 Jun 2025 11:34	RC/JU	Ok
2	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	RC/JU	Not Ok
3	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	RC/JU	Ok,M
4	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10	RC/JU	Ok
5	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	RC/JU	Ok
6	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22	RC/JU	Ok
7	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59	RC/JU	Ok
8	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35	RC/JU	Ok
9	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11	RC/JU	Ok
10	SSTDICV0.4	BN037232.D	13 Jun 2025 17:47	RC/JU	Ok
11	PB168391BL	BN037233.D	13 Jun 2025 19:00	RC/JU	Ok
12	Q2275-01	BN037234.D	13 Jun 2025 19:36	RC/JU	Ok
13	Q2275-03	BN037235.D	13 Jun 2025 20:12	RC/JU	Ok
14	PB168391BS	BN037236.D	13 Jun 2025 20:49	RC/JU	Ok,M
15	PB168391BSD	BN037237.D	13 Jun 2025 21:25	RC/JU	Ok,M
16	SSTDCCC0.4	BN037238.D	13 Jun 2025 22:01	RC/JU	Ok
17	DFTPP	BN037239.D	13 Jun 2025 23:16	RC/JU	Ok
18	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55	RC/JU	Ok
19	PB168458BL	BN037241.D	14 Jun 2025 00:31	RC/JU	Ok
20	Q2263-01	BN037242.D	14 Jun 2025 01:08	RC/JU	Ok
21	Q2263-02	BN037243.D	14 Jun 2025 01:44	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2299-01	BN037244.D	14 Jun 2025 02:20	RC/JU	Ok
23	Q2299-02	BN037245.D	14 Jun 2025 02:56	RC/JU	Ok
24	Q2299-03MS	BN037246.D	14 Jun 2025 03:32	RC/JU	Ok,M
25	Q2299-04MSD	BN037247.D	14 Jun 2025 04:08	RC/JU	Ok,M
26	Q2299-05	BN037248.D	14 Jun 2025 04:45	RC/JU	Ok
27	Q2299-06	BN037249.D	14 Jun 2025 05:21	RC/JU	Ok
28	Q2299-07	BN037250.D	14 Jun 2025 05:57	RC/JU	Ok
29	Q2299-08	BN037251.D	14 Jun 2025 06:33	RC/JU	Ok
30	Q2299-09	BN037252.D	14 Jun 2025 07:09	RC/JU	Ok
31	Q2299-10	BN037253.D	14 Jun 2025 07:46	RC/JU	Ok
32	Q2299-11	BN037254.D	14 Jun 2025 08:22	RC/JU	Ok
33	Q2299-12	BN037255.D	14 Jun 2025 08:58	RC/JU	Ok
34	Q2299-13	BN037256.D	14 Jun 2025 09:34	RC/JU	Dilution
35	SSTDCCC0.4	BN037257.D	14 Jun 2025 10:10	RC/JU	Ok
36	DFTPP	BN037258.D	14 Jun 2025 12:44	RC/JU	Ok
37	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23	RC/JU	Ok
38	PB168336BL	BN037260.D	14 Jun 2025 13:59	RC/JU	Ok
39	Q2299-14	BN037261.D	14 Jun 2025 14:35	RC/JU	Dilution
40	Q2299-15	BN037262.D	14 Jun 2025 15:11	RC/JU	Ok
41	Q2299-16	BN037263.D	14 Jun 2025 15:47	RC/JU	Ok
42	Q2299-17	BN037264.D	14 Jun 2025 16:23	RC/JU	Dilution
43	Q2299-18	BN037265.D	14 Jun 2025 17:00	RC/JU	Ok
44	Q2299-19	BN037266.D	14 Jun 2025 17:36	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q2299-20	BN037267.D	14 Jun 2025 18:12	RC/JU	Ok
46	Q2299-21	BN037268.D	14 Jun 2025 18:48	RC/JU	Ok
47	Q2299-22	BN037269.D	14 Jun 2025 19:24	RC/JU	Ok
48	PB168458BS	BN037270.D	14 Jun 2025 20:00	RC/JU	Ok,M
49	SSTDCCC0.4	BN037271.D	14 Jun 2025 20:36	RC/JU	Ok
50	DFTPP	BN037272.D	14 Jun 2025 21:51	RC/JU	Ok
51	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31	RC/JU	Ok
52	PB168476BL	BN037274.D	14 Jun 2025 23:07	RC/JU	Ok
53	Q2314-04	BN037275.D	14 Jun 2025 23:43	RC/JU	Ok
54	Q2314-05	BN037276.D	15 Jun 2025 00:18	RC/JU	Ok
55	Q2314-06	BN037277.D	15 Jun 2025 00:54	RC/JU	Ok
56	Q2316-01	BN037278.D	15 Jun 2025 01:30	RC/JU	Ok
57	Q2316-02	BN037279.D	15 Jun 2025 02:06	RC/JU	Ok
58	PB168476BS	BN037280.D	15 Jun 2025 02:42	RC/JU	Ok,M
59	PB168476BSD	BN037281.D	15 Jun 2025 03:18	RC/JU	Ok,M
60	SSTDCCC0.4	BN037282.D	15 Jun 2025 03:54	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061625

Review By	Rahul	Review On	6/17/2025 9:15:34 AM
Supervise By	Jagrut	Supervise On	6/17/2025 9:20:17 AM
SubDirectory	BN061625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037283.D	16 Jun 2025 09:44	RC/JU	Ok
2	SSTDCCC0.4	BN037284.D	16 Jun 2025 10:23 am	RC/JU	Ok
3	PB168391BL	BN037285.D	16 Jun 2025 11:03	RC/JU	Ok
4	Q2299-17DL	BN037286.D	16 Jun 2025 11:39	RC/JU	Ok
5	Q2299-13DL	BN037287.D	16 Jun 2025 12:15	RC/JU	Ok
6	Q2299-14DL	BN037288.D	16 Jun 2025 12:51	RC/JU	Ok
7	SSTDCCC0.4	BN037289.D	16 Jun 2025 13:53	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6779 SP6740,1ul/100ul sample SP6768

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037223.D	13 Jun 2025 11:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	Compound #02,03,20,24,34 remvoed from 0.1 PPM	RC/JU	Ok,M
4	SSTDICC0.2	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	Compound#20 Kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11		RC/JU	Ok
10	SSTDICV0.4	ICVBN061325	BN037232.D	13 Jun 2025 17:47		RC/JU	Ok
11	PB168391BL	PB168391BL	BN037233.D	13 Jun 2025 19:00		RC/JU	Ok
12	Q2275-01	OW-08B-72.5-060925	BN037234.D	13 Jun 2025 19:36		RC/JU	Ok
13	Q2275-03	EB01-060925	BN037235.D	13 Jun 2025 20:12		RC/JU	Ok
14	PB168391BS	PB168391BS	BN037236.D	13 Jun 2025 20:49		RC/JU	Ok,M
15	PB168391BSD	PB168391BSD	BN037237.D	13 Jun 2025 21:25		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN037238.D	13 Jun 2025 22:01		RC/JU	Ok
17	DFTPP	DFTPP	BN037239.D	13 Jun 2025 23:16		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6779 SP6740,1ul/100ul sample SP6768

18	SSTDCCC0.4	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55		RC/JU	Ok
19	PB168458BL	PB168458BL	BN037241.D	14 Jun 2025 00:31		RC/JU	Ok
20	Q2263-01	RW9-MW01D3-202506	BN037242.D	14 Jun 2025 01:08		RC/JU	Ok
21	Q2263-02	RW9-MW01S-2025060	BN037243.D	14 Jun 2025 01:44		RC/JU	Ok
22	Q2299-01	RE117D1-20250609	BN037244.D	14 Jun 2025 02:20		RC/JU	Ok
23	Q2299-02	RE117D2-20250609	BN037245.D	14 Jun 2025 02:56		RC/JU	Ok
24	Q2299-03MS	TT191D1-20250609MS	BN037246.D	14 Jun 2025 03:32		RC/JU	Ok,M
25	Q2299-04MSD	TT191D1-20250609MS	BN037247.D	14 Jun 2025 04:08		RC/JU	Ok,M
26	Q2299-05	TT191D1-20250609	BN037248.D	14 Jun 2025 04:45		RC/JU	Ok
27	Q2299-06	TT191D2-20250609	BN037249.D	14 Jun 2025 05:21		RC/JU	Ok
28	Q2299-07	RW10-MW01S-202506	BN037250.D	14 Jun 2025 05:57		RC/JU	Ok
29	Q2299-08	RW10-MW01D-202506	BN037251.D	14 Jun 2025 06:33		RC/JU	Ok
30	Q2299-09	RW10A-MW01S-20250	BN037252.D	14 Jun 2025 07:09		RC/JU	Ok
31	Q2299-10	RW10A-MW01I-202506	BN037253.D	14 Jun 2025 07:46		RC/JU	Ok
32	Q2299-11	TT158I1-20250610	BN037254.D	14 Jun 2025 08:22		RC/JU	Ok
33	Q2299-12	DUP01-20250610	BN037255.D	14 Jun 2025 08:58		RC/JU	Ok
34	Q2299-13	RE131D2-20250610	BN037256.D	14 Jun 2025 09:34	Need 5X Dilution	RC/JU	Dilution
35	SSTDCCC0.4	SSTDCCC0.4EC	BN037257.D	14 Jun 2025 10:10		RC/JU	Ok
36	DFTPP	DFTPP	BN037258.D	14 Jun 2025 12:44		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	SP6757 SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6779 SP6740,1ul/100ul sample SP6768		

37	SSTDCCC0.4	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23		RC/JU	Ok
38	PB168336BL	PB168336BL	BN037260.D	14 Jun 2025 13:59		RC/JU	Ok
39	Q2299-14	DUP02-20250610	BN037261.D	14 Jun 2025 14:35	Need 5X Dilution	RC/JU	Dilution
40	Q2299-15	TT174I1-20250610	BN037262.D	14 Jun 2025 15:11		RC/JU	Ok
41	Q2299-16	RE134D4-20250610	BN037263.D	14 Jun 2025 15:47		RC/JU	Ok
42	Q2299-17	RE134D3-20250610	BN037264.D	14 Jun 2025 16:23	Need 2X Dilution	RC/JU	Dilution
43	Q2299-18	TT190D1-20250611	BN037265.D	14 Jun 2025 17:00		RC/JU	Ok
44	Q2299-19	RW11-MW01I-20250611	BN037266.D	14 Jun 2025 17:36		RC/JU	Ok
45	Q2299-20	RW11-MW01S-20250611	BN037267.D	14 Jun 2025 18:12		RC/JU	Ok
46	Q2299-21	RE134D1-20250611	BN037268.D	14 Jun 2025 18:48		RC/JU	Ok
47	Q2299-22	TT190D2-20250611	BN037269.D	14 Jun 2025 19:24		RC/JU	Ok
48	PB168458BS	PB168458BS	BN037270.D	14 Jun 2025 20:00		RC/JU	Ok,M
49	SSTDCCC0.4	SSTDCCC0.4EC	BN037271.D	14 Jun 2025 20:36		RC/JU	Ok
50	DFTPP	DFTPP	BN037272.D	14 Jun 2025 21:51		RC/JU	Ok
51	SSTDCCC0.4	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31		RC/JU	Ok
52	PB168476BL	PB168476BL	BN037274.D	14 Jun 2025 23:07		RC/JU	Ok
53	Q2314-04	BP-VPB-182-GW-880-8	BN037275.D	14 Jun 2025 23:43		RC/JU	Ok
54	Q2314-05	BP-VPB-182-EB-20250611	BN037276.D	15 Jun 2025 00:18		RC/JU	Ok
55	Q2314-06	VPB182-HYD-20250611	BN037277.D	15 Jun 2025 00:54	Surrogate fail	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

56	Q2316-01	RW8-SP100-20250612	BN037278.D	15 Jun 2025 01:30		RC/JU	Ok
57	Q2316-02	RW8-SP303-20250612	BN037279.D	15 Jun 2025 02:06		RC/JU	Ok
58	PB168476BS	PB168476BS	BN037280.D	15 Jun 2025 02:42		RC/JU	Ok,M
59	PB168476BSD	PB168476BSD	BN037281.D	15 Jun 2025 03:18		RC/JU	Ok,M
60	SSTDCCC0.4	SSTDCCC0.4EC	BN037282.D	15 Jun 2025 03:54		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061625

Review By	Rahul	Review On	6/17/2025 9:15:34 AM
Supervise By	Jagrut	Supervise On	6/17/2025 9:20:17 AM
SubDirectory	BN061625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037283.D	16 Jun 2025 09:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037284.D	16 Jun 2025 10:23 am		RC/JU	Ok
3	PB168391BL	PB168391BL	BN037285.D	16 Jun 2025 11:03		RC/JU	Ok
4	Q2299-17DL	RE134D3-20250610DL	BN037286.D	16 Jun 2025 11:39		RC/JU	Ok
5	Q2299-13DL	RE131D2-20250610DL	BN037287.D	16 Jun 2025 12:15		RC/JU	Ok
6	Q2299-14DL	DUP02-20250610DL	BN037288.D	16 Jun 2025 12:51		RC/JU	Ok
7	SSTDCCC0.4	SSTDCCC0.4EC	BN037289.D	16 Jun 2025 13:53		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RJ

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 06/13/2025

Extraction Start Time : 08:03

Extraction End Date : 06/13/2025

Extraction End Time : 13:00

Concentration By: EH

Supervisor By : RUPESH

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6758
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

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
06/13/25	RP (Ext 205)	R/SVOC
13:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168458BL	SBLK458	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-1
PB168458BS	SLCS458	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
Q2299-01	RE117D1-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		3
Q2299-02	RE117D2-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		4
Q2299-03	Q2299-05MS	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
Q2299-04	Q2299-05MSD	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		6
Q2299-05	TT191D1-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		7
Q2299-06	TT191D2-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		8
Q2299-07	RW10-MW01S-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		9
Q2299-08	RW10-MW01D-20250609	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		10
Q2299-09	RW10A-MW01S-20250609	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		11
Q2299-10	RW10A-MW01I-20250609	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		12
Q2299-11	TT158I1-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		13
Q2299-12	DUP01-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		14
Q2299-13	RE131D2-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		15
Q2299-14	DUP02-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		16
Q2299-15	TT174I1-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		SEP-01
Q2299-16	RE134D4-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		2
Q2299-17	RE134D3-20250610	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		3
Q2299-18	TT190D1-20250611	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		4
Q2299-19	RW11-MW01I-20250611	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
Q2299-20	RW11-MW01S-20250611	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		6
Q2299-21	RE134D1-20250611	SVOC-SIMGrou p1	960	6	RUPESH	rajesh	1	C		7
Q2299-22	TT190D2-20250611	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		8

* Extracts relinquished on the same date as received.



168450
8:03

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2299

WorkList ID : 190171

Department : Extraction

Date : 06-13-2025 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2299-01	RE117D1-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-02	RE117D2-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-03	Q2299-05MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-04	Q2299-05MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-05	TT191D1-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-06	TT191D2-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-19	RW11-MW01I-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-20	RW11-MW01S-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-21	RE134D1-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-22	TT190D2-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-13	RE131D2-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-14	DUP02-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-15	TT174I1-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-16	RE134D4-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-17	RE134D3-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified
Q2299-18	TT190D1-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/11/2025	8270-Modified
Q2299-07	RW10-MW01S-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-08	RW10-MW01D-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-09	RW10A-MW01S-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-10	RW10A-MW01I-20250609	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/09/2025	8270-Modified
Q2299-11	TT158I1-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified

Date/Time 6/13/25 8:00
 Raw Sample Received by: RS (Ext Lab)
 Raw Sample Relinquished by: [Signature]

Date/Time 6/13/25 8:45
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RS (Ext Lab)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2299

WorkList ID : 190171

Department : Extraction

Date : 06-13-2025 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2299-12	DUP01-20250610	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	06/10/2025	8270-Modified

Date/Time 6/13/25 8:00
 Raw Sample Received by: RS (BCL Lab)
 Raw Sample Relinquished by: ASU

Date/Time 6/13/25 8:45
 Raw Sample Received by: ASU
 Raw Sample Relinquished by: RS (BCL Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q2299

Test : SVOC-SIMGroup1

Prepbatch ID : PB168458,

Sequence ID/Qc Batch ID: BN061325,BN061625,

Standard ID :

EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,



<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_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml								

<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_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 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>
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025
<u>FROM</u> 0.10000ml of S12651 + 4.90000ml of E3874 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025
FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	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								



<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	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025
<u>FROM</u> 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025
<u>FROM</u>	SOURCE 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml							



<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	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml								
FROM								

<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)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

<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	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

<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	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

<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	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml



<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	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, 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 #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

CHEMICAL RECEIPT LOG BOOK

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



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.

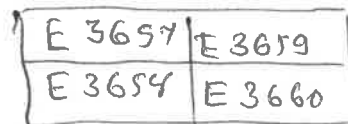
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Rec'd by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μeq/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 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH 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

E3939

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

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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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 2411262013

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

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



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

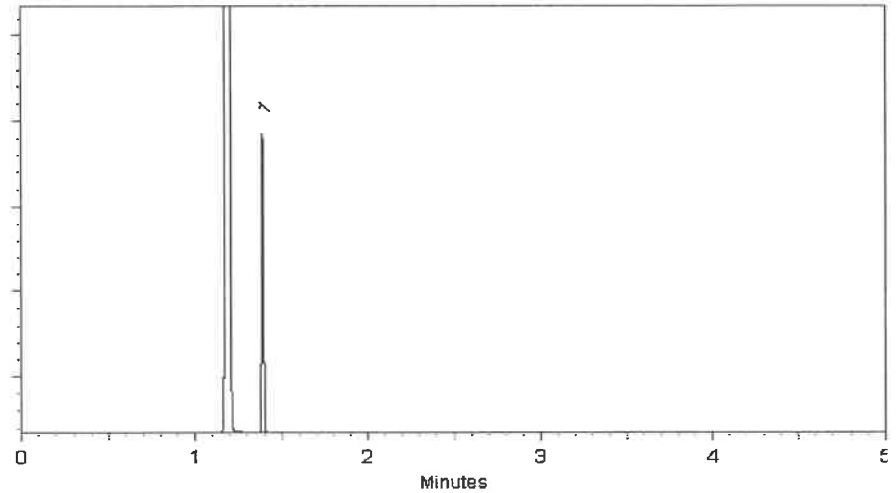
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

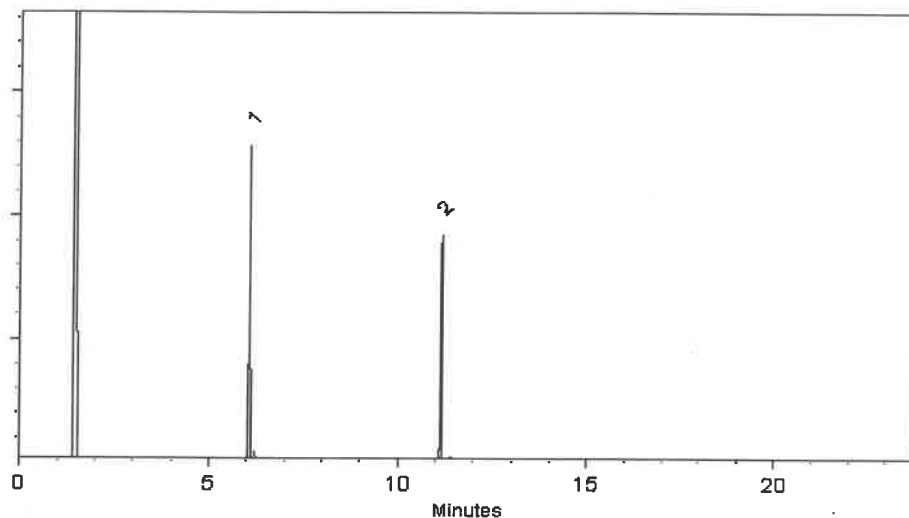
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

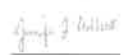


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
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/
↓ } 03/18/24
512206 }

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:

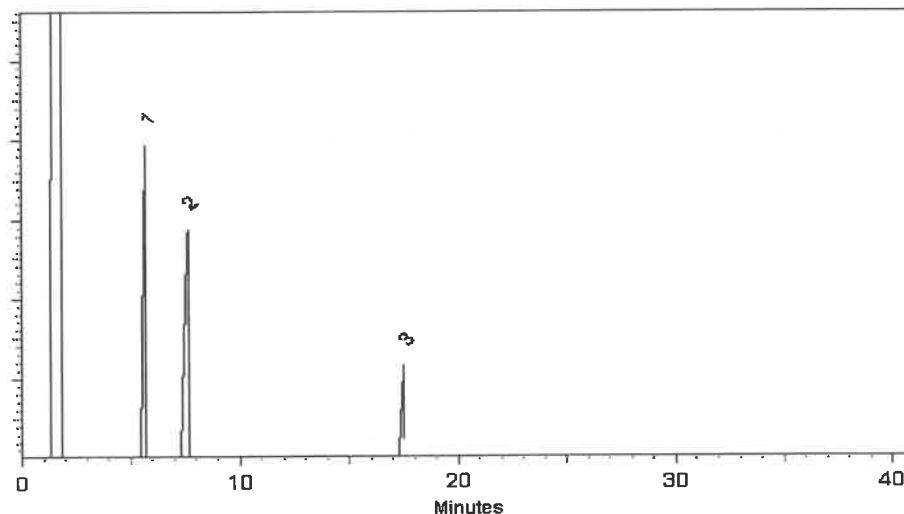
FID

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 S. 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
Registered Quality System
Certificate #FM 80397



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chromatographic plus



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

Catalog No. : 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:

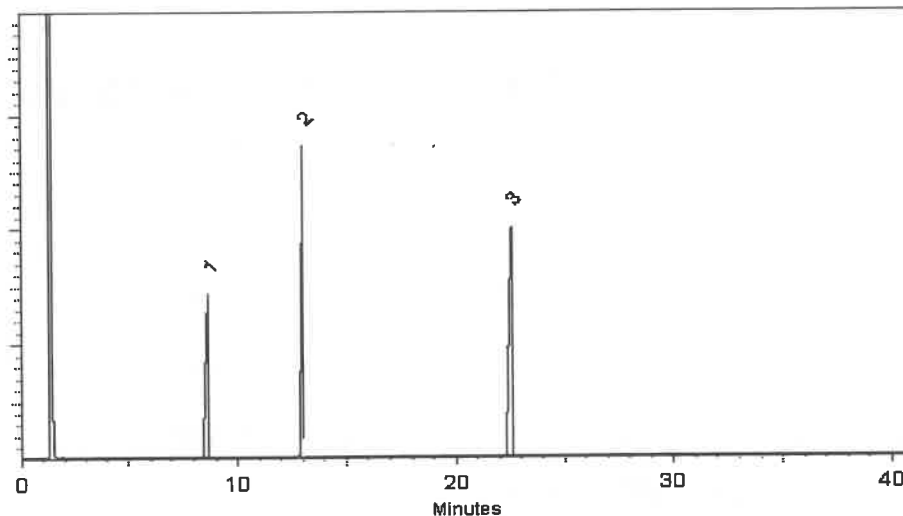
FID

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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Santa Rosa, CA 95403

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

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

Date Received: _____

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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
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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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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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chromatographic plus



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

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

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

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

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

CERTIFIED VALUES

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

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

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

S12577 } 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:

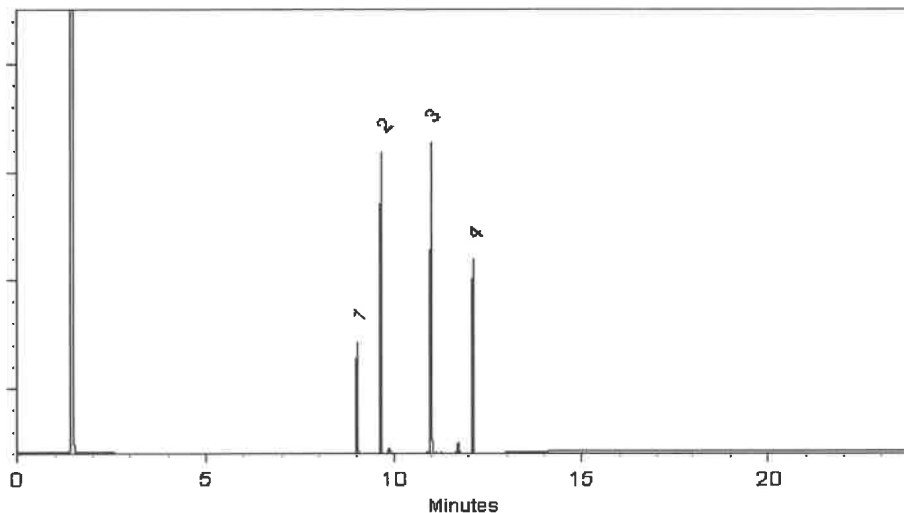
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

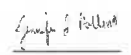


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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



5580 Skylane Blvd
Santa Rosa, CA 95403

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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~
↓
~~512284~~ } RCL
05/24/24

New Numbers Generated.

512790
↓
512794 } RCL
11/12/24

*Not a certified value

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

Certified By: _____

Shane Overcash
Chemist

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



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chromatographic plus



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

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	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.



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.

QUOTE NO.

COC Number

2046494

Q2299

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.: 60731872 LOCATION: BETHPAGE

PROJECT MANAGER: Eleanor Vivadon

e-mail: Eleanor.Vivadon@AECOM.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V. PO#:

ADDRESS: 27 Ellis pkwy

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 82705M

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
			COMP	GRAB	DATE	TIME		A	F									
1.	RE117D1 - 20250609	GW		X	06/09/25	1130	3	2	1									
2.	RE117D2 - 20250609	GW		X		1150	3	2	1									
3.	TT191D1 - 20250609	GW		X		1440	9	6	3									Additional vol for ms collected
4.	TT191D2 - 20250609	GW		X		1515	3	2	1									
5.	RW10 - MW01S - 20250609	GW		X		1000	3	2	1									
6.	RW10 - MW01D - 20250609	GW		X		1010	3	2	1									
7.	RW10A - MW01S - 20250609	GW		X		1240	3	2	1									
8.	RW10A - MW01I - 20250609	GW		X	↓	1320	3	2	1									
9.	TT158I1 - 20250610	GW		X	06/10/25	1000	3	2	1									
10.	DUPM - 20250610	GW		X	↓	1005	3	2	1									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1440	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.8°C
1. momo Acheik	6-11-2025	1. R. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1745	RECEIVED BY:	
3. R. [Signature]	6-11-2025	3. [Signature]	

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO



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www.chemtech.net

ALLIANCE PROJECT NO.

QUOTE NO.

COC Number

Q2209

2046495

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivodon

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 60731872 LOCATION: BETHPAGE

PROJECT MANAGER: Eleanor Vivodon

e-mail: Eleanor.Vivodon@aecom.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V.

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 8260
 1,4-dioxane 8270SM

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.	RE131D2-20250610	GW		X	06/10/25	1150	3	2	1								
2.	DUP02-20250610	GW		X	06/10/25	1155	3	2	1								
3.	TT174I1-20250610	GW		X	06/10/25	1020	3	2	1								
4.	RE134D4-20250610	GW		X	06/10/25	1000	3	2	1								
5.	RE134D3-20250610	GW		X	06/10/25	1140	3	2	1								
6.	TT190D1-20250611	GW		X	06/11/25	1135	3	2	1								
7.	RW11-MW01I-20250611	GW		X		0930	3	2	1								
8.	RW11-MW01S-20250611	GW		X		0935	3	2	1								
9.	RE134D1-20250611	GW		X		0950	3	2	1								
10.	TT190D2-20250611	GW		X		1135	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME: 1440

RECEIVED BY:

1. Joe Momo Acheik

6-11-2025

1.

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

2.

DATE/TIME:

2.

RELINQUISHED BY SAMPLER:

DATE/TIME: 1745

RECEIVED BY:

3. R. P. J.

6-11-2025

3.

Conditions of bottles or coolers at receipt:

☐ COMPLIANT

☐ NON COMPLIANT

☒ COOLER TEMP

2.8°C

°C

Comments:

Page 2 of 2

CLIENT:

☐ Hand Delivered

☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299 AECO15

Order Date : 6/12/2025 12:06:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : ~~Results Only~~ NYS ASP B

Client Contact : Eleanor Vivadou

Receive DateTime : 6/11/2025 5:45:00 PM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2299-01	RE117D1-20250609	Water	06/09/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-02	RE117D2-20250609	Water	06/09/2025	11:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-03	Q2299-02MS ⁰⁵ <i>OK</i>	Water	06/09/2025	~~11:50~~ ^{14:00}					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-04	Q2299-04MSD ⁵ <i>OK</i>	Water	06/09/2025	~~11:50~~ ^{14:00}					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-05	TT191D1-20250609	Water	06/09/2025	14:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-06	TT191D2-20250609	Water	06/09/2025	15:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-07	RW10-MW01S-20250609	Water	06/09/2025	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-08	RW10-MW01D-20250609	Water	06/09/2025	10:10					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299 AECO15

Order Date : 6/12/2025 12:06:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : Results Only *NYS ASP B*

Client Contact : Eleanor Vivadou

Receive DateTime : 6/11/2025 5:45:00 PM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-09	RW10A-MW01S-20250609	Water	06/09/2025	12:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-10	RW10A-MW01I-20250609	Water	06/09/2025	13:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-11	TT158I1-20250610	Water	06/09/2025	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-12	DUP01-20250610	Water	06/10/2025	10:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-13	RE131D2-20250610	Water	06/10/2025	11:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-14	DUP02-20250610	Water	06/10/2025	11:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-15	TT174I1-20250610	Water	06/10/2025	10:20					
					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299	AECO15	Order Date : 6/12/2025 12:06:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~ NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 6/11/2025 5:45:00 PM	EDD Type : EQUIS af
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2299-16	RE134D4-20250610	Water	06/10/2025	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-17	RE134D3-20250610	Water	06/10/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-18	TT190D1-20250611	Water	06/10/2025	11:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-19	RW11-MW01I-20250611	Water	06/11/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-20	RW11-MW01S-20250611	Water	06/11/2025	09:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-21	RE134D1-20250611	Water	06/11/2025	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-22	TT190D2-20250611	Water	06/11/2025	11:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2299-23	CANCEL	Water	06/11/2025	00:00					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2299 AECO15

Order Date : 6/12/2025 12:06:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : ~~Results Only~~ **NYS ASP B**

Client Contact : Eleanor Vivadou

Receive DateTime : 6/11/2025 5:45:00 PM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

~~VOCMS Group1~~ 8260-Low 10 Bus. Days **OK**

Relinquished By :

Date / Time :

AW
6/12/25 1255

Received By :

Date / Time :

Sam 12:55 **Pgt 4**
06/12/25

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037225.D
 Acq On : 13 Jun 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

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

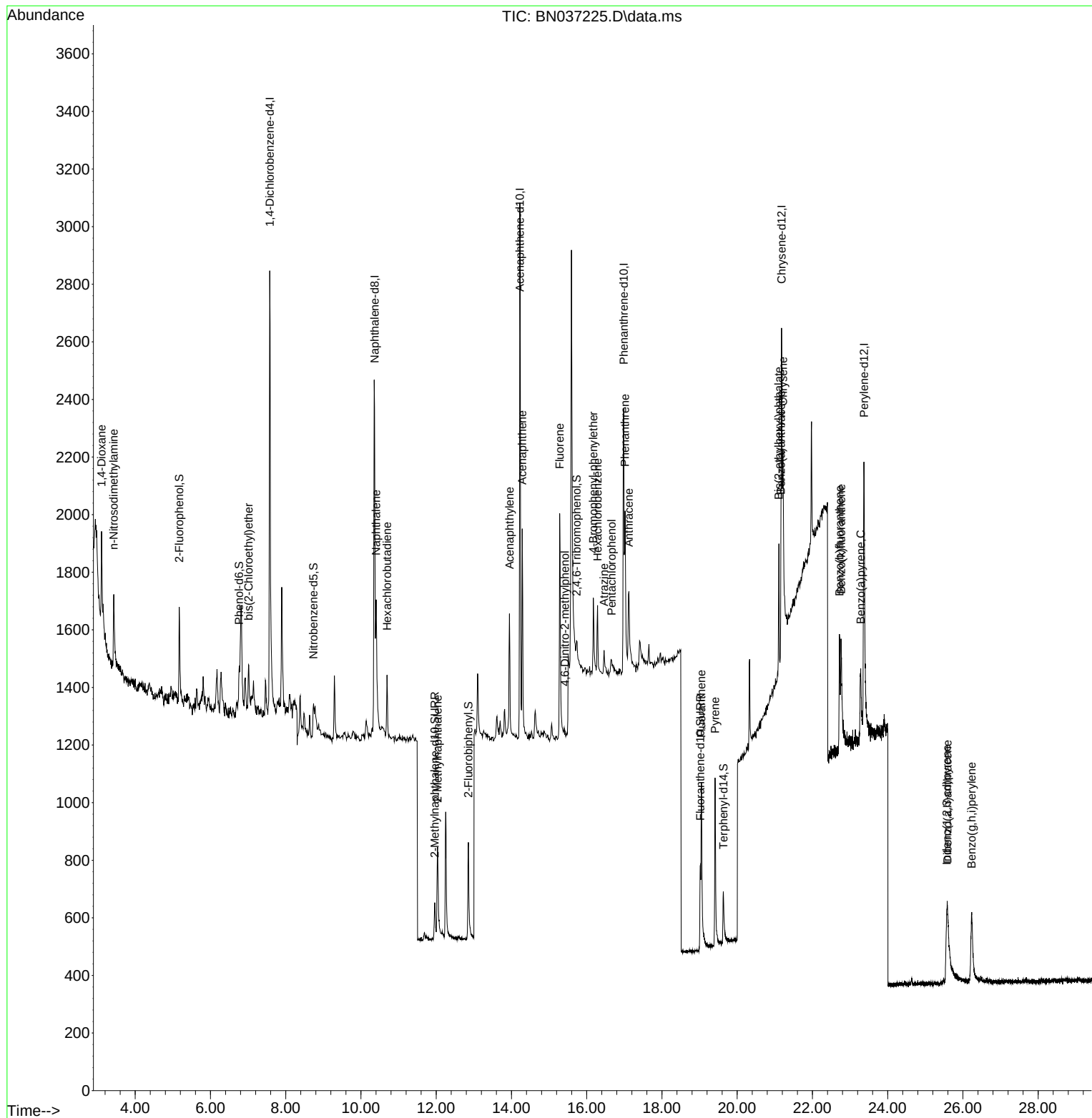
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	145	0.123	ng	# 54
3) n-Nitrosodimethylamine	3.429	42	293	0.109	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
20) 4,6-Dinitro-2-methylph...	15.421	198	15	0.146	ng	# 26
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
24) Pentachlorophenol	16.661	266	52	0.073	ng	# 82
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.108	149	432	0.111	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	488	0.072	ng	# 40
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	313	0.064	ng	# 13
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

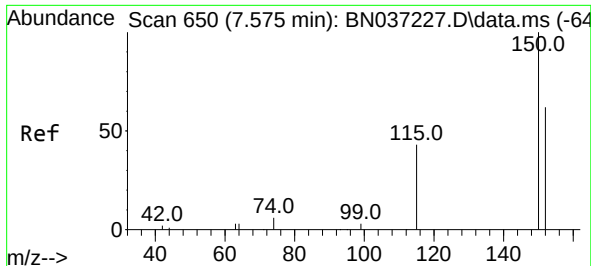
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

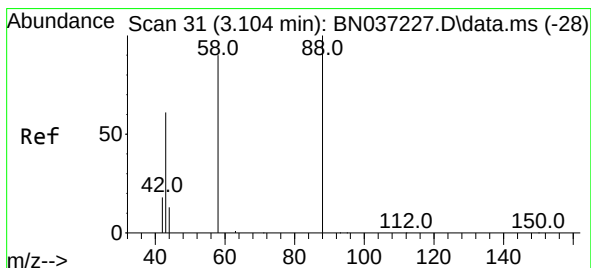
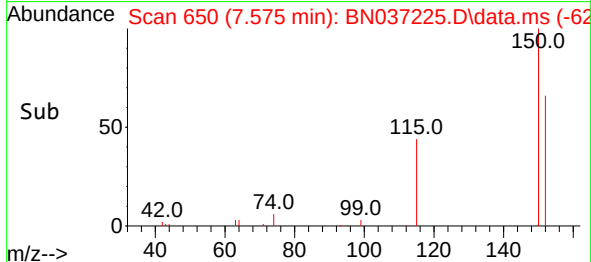
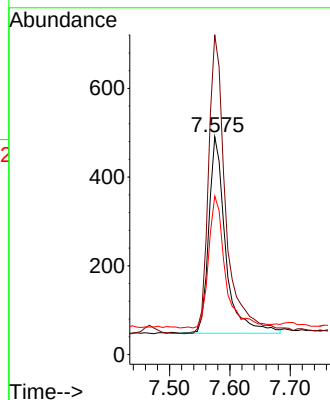
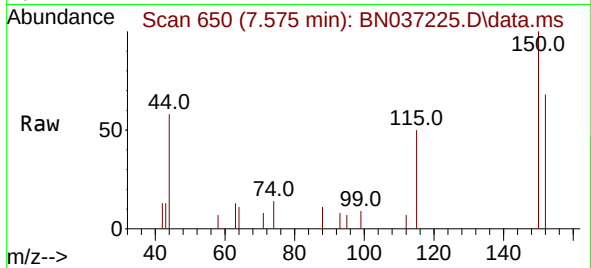




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

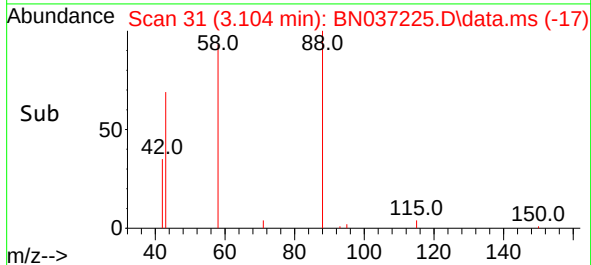
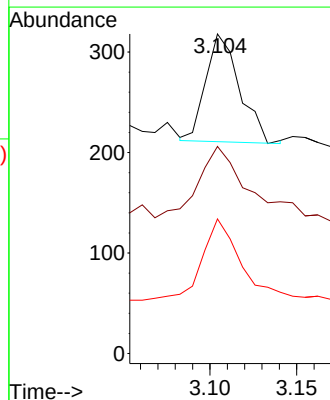
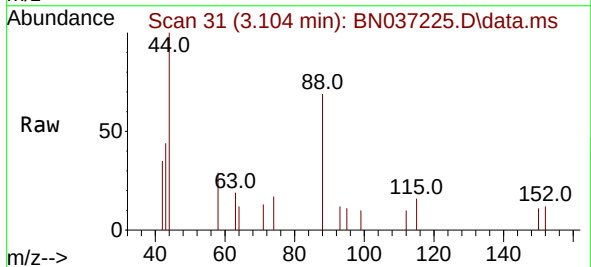
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

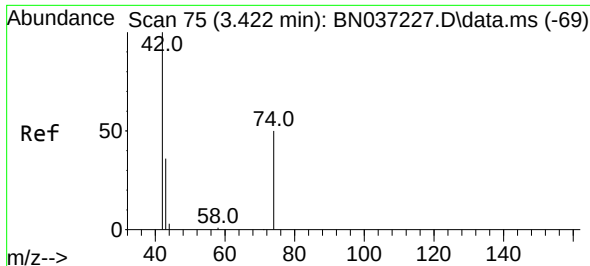
Tgt Ion:152 Resp: 859
 Ion Ratio Lower Upper
 152 100
 150 146.8 125.2 187.8
 115 72.7 58.4 87.6



#2
 1,4-Dioxane
 Concen: 0.123 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion: 88 Resp: 145
 Ion Ratio Lower Upper
 88 100
 43 144.8 52.6 79.0#
 58 84.8 73.5 110.3

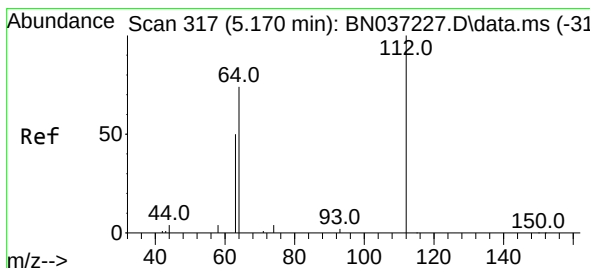
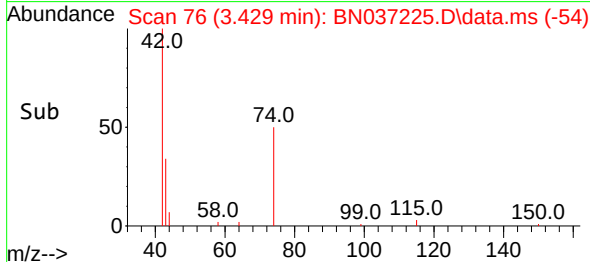
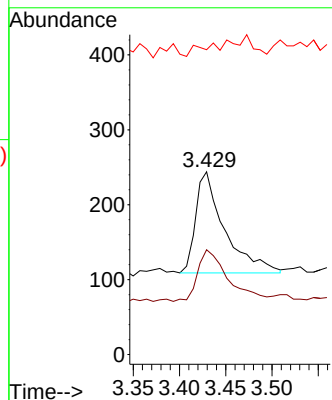
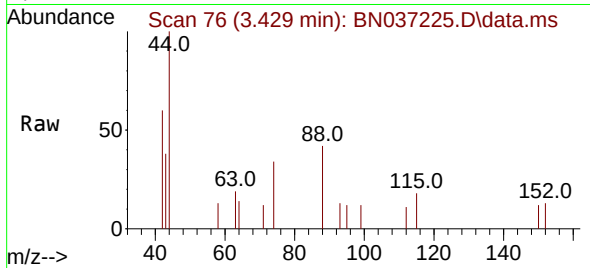




#3
n-Nitrosodimethylamine
Concen: 0.109 ng
RT: 3.429 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

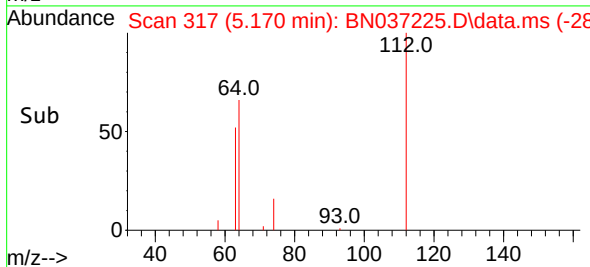
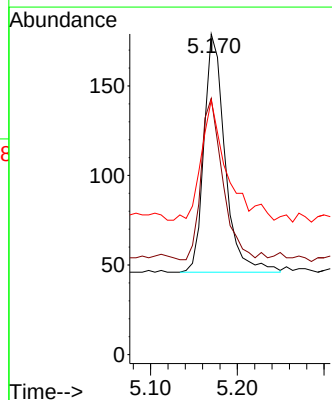
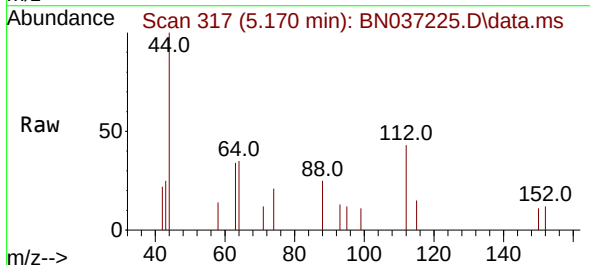
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

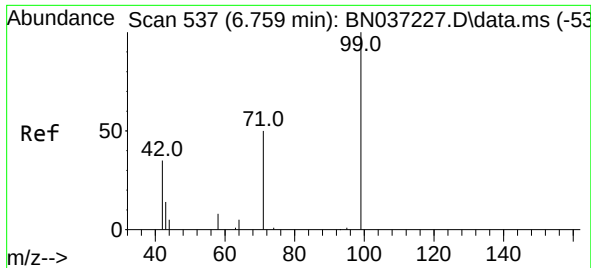
Tgt Ion: 42 Resp: 293
Ion Ratio Lower Upper
42 100
74 53.6 44.6 66.8
44 5.5 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 112 Resp: 224
Ion Ratio Lower Upper
112 100
64 69.2 57.2 85.8
63 65.6 39.8 59.6#

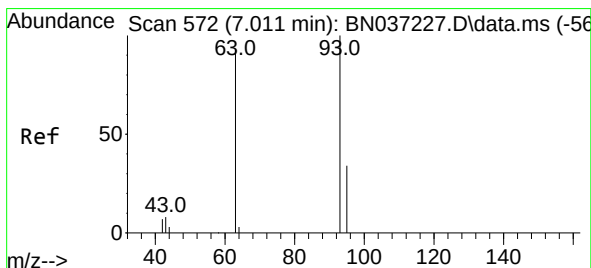
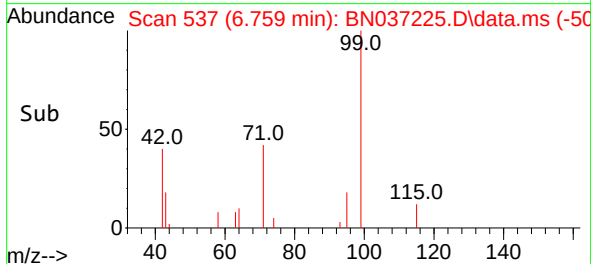
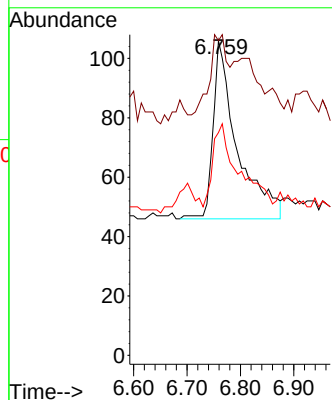
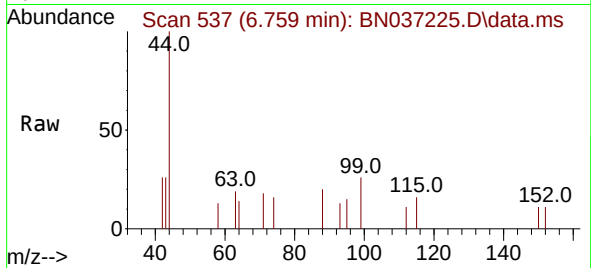




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

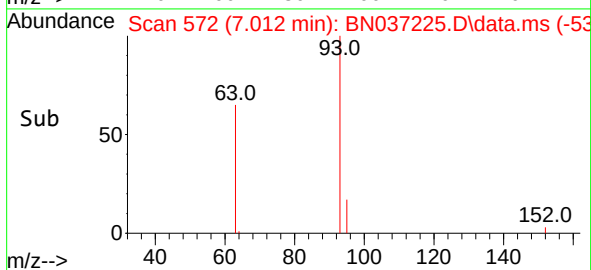
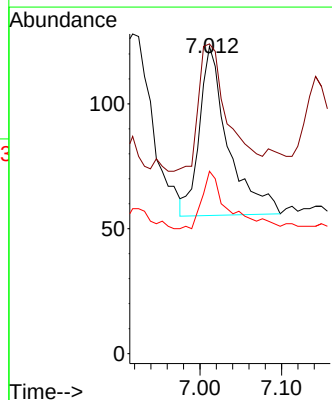
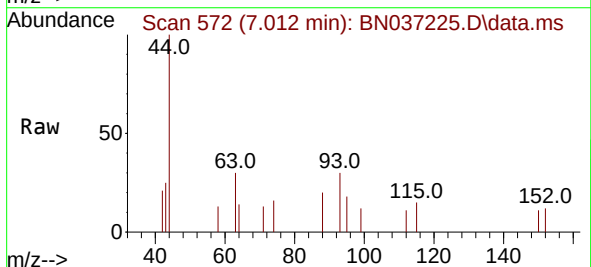
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

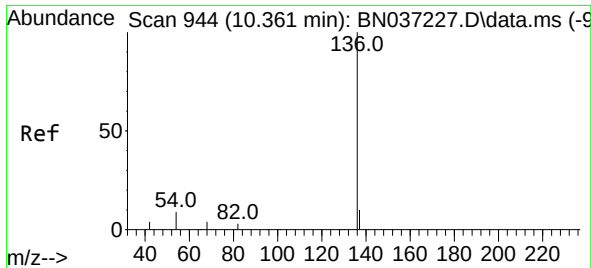
Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 33.0 36.2 54.4#
71 51.1 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165
Ion Ratio Lower Upper
93 100
63 76.4 75.2 112.8
95 30.9 28.3 42.5

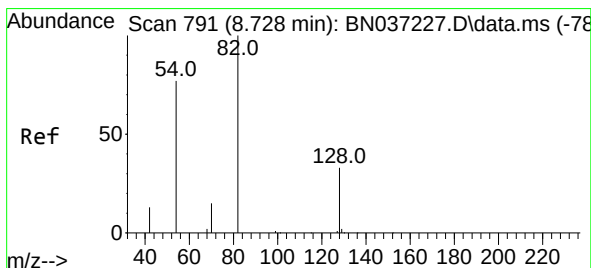
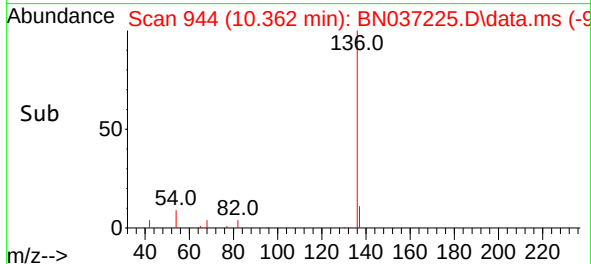
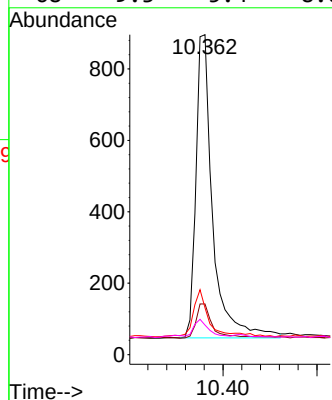
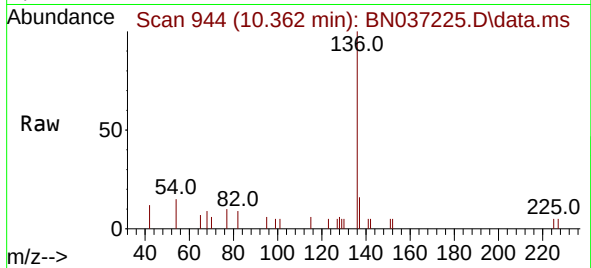




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

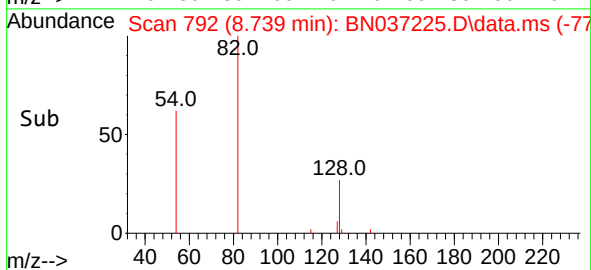
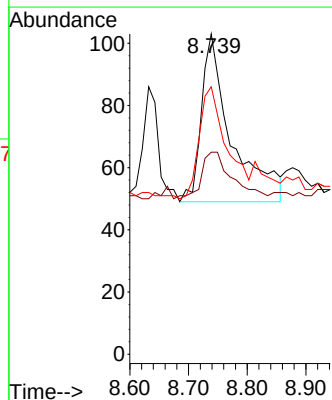
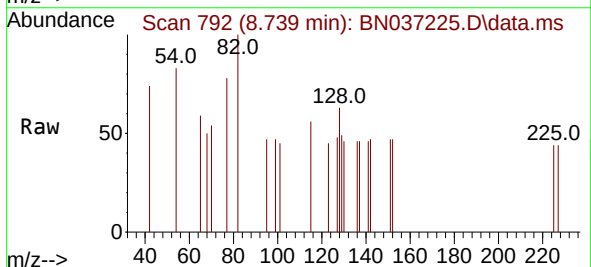
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

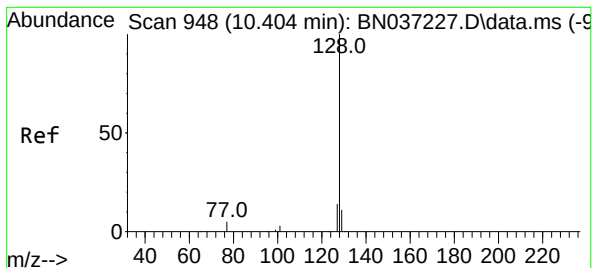
Tgt Ion:	136	Resp:	2097
Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8#
54	14.6	9.2	13.8#
68	9.3	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:	82	Resp:	192
Ion	Ratio	Lower	Upper
82	100		
128	63.1	31.2	46.8#
54	83.5	63.3	94.9





#9

Naphthalene

Concen: 0.102 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

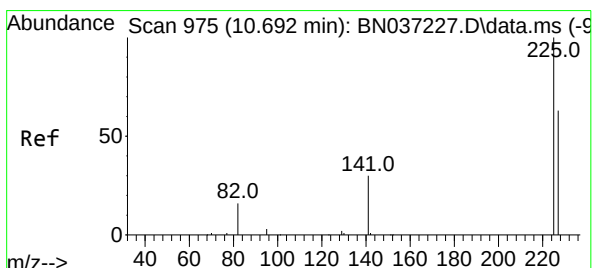
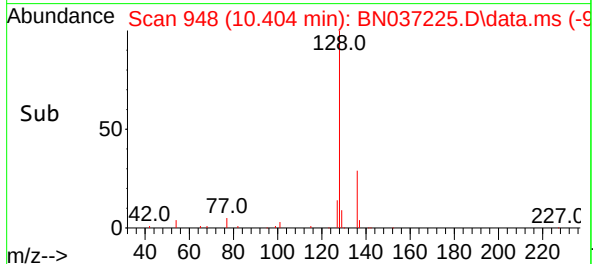
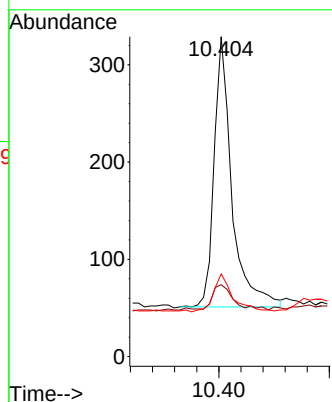
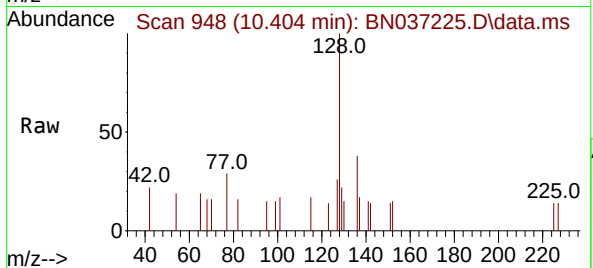
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:	128	Resp:	622
Ion	Ratio	Lower	Upper
128	100		
129	22.5	10.7	16.1#
127	25.8	12.6	19.0#



#10

Hexachlorobutadiene

Concen: 0.106 ng

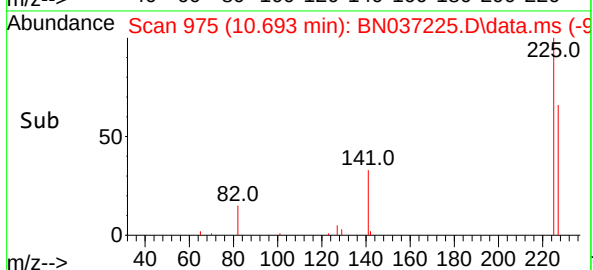
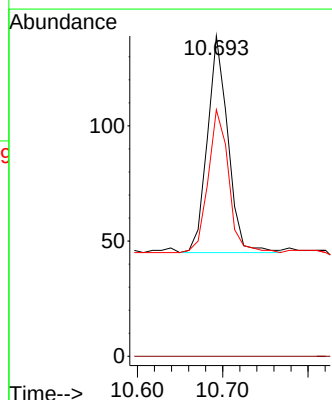
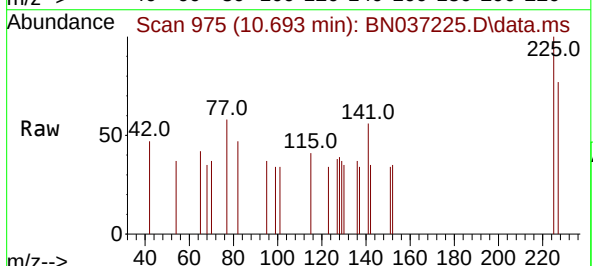
RT: 10.693 min Scan# 975

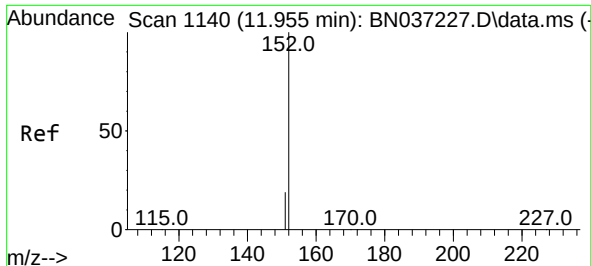
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	225	Resp:	157
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	49.2	73.8





#11

2-Methylnaphthalene-d10

Concen: 0.092 ng

RT: 11.960 min Scan# 1141

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

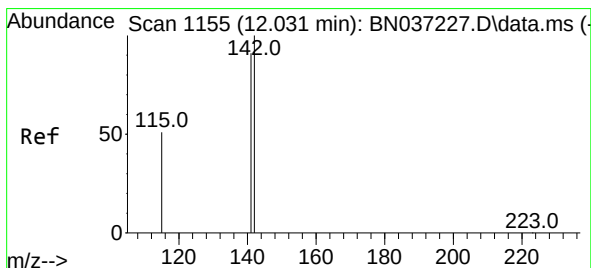
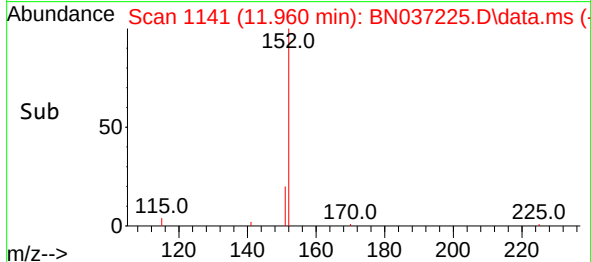
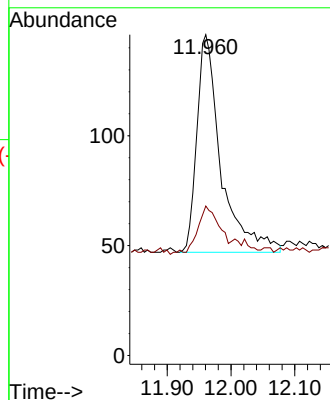
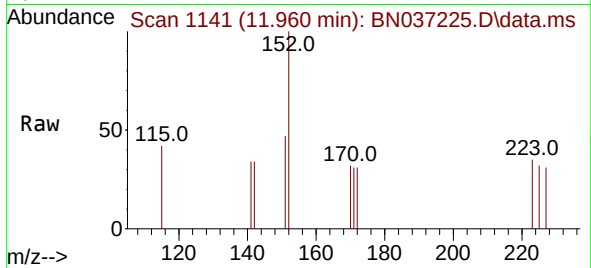
SSTDICC0.1

Tgt Ion:152 Resp: 260

Ion Ratio Lower Upper

152 100

151 20.8 17.9 26.9



#12

2-Methylnaphthalene

Concen: 0.090 ng

RT: 12.036 min Scan# 1156

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

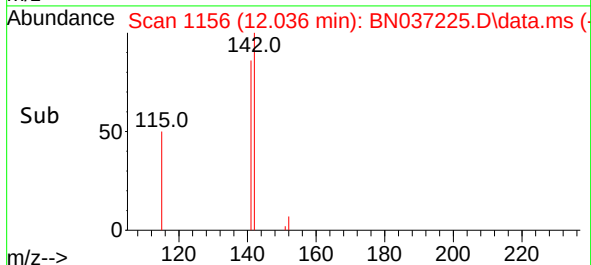
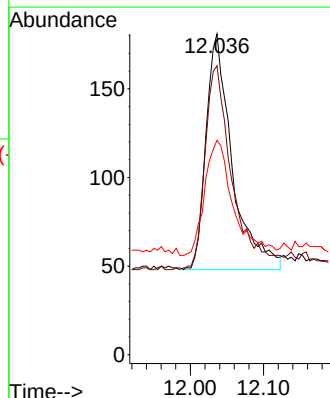
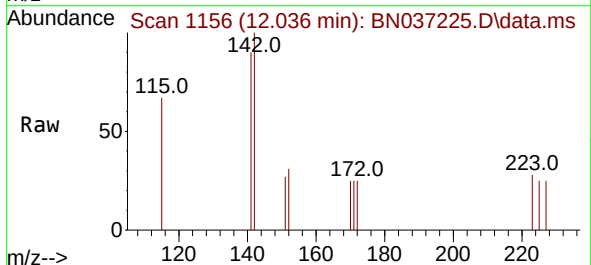
Tgt Ion:142 Resp: 331

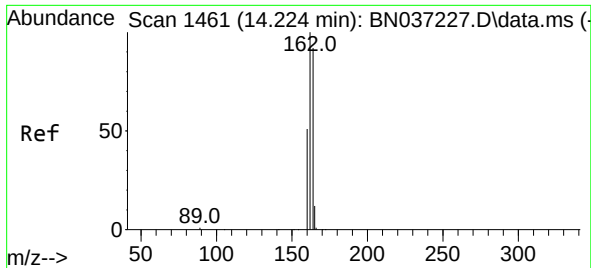
Ion Ratio Lower Upper

142 100

141 90.1 73.0 109.6

115 66.9 43.3 64.9#

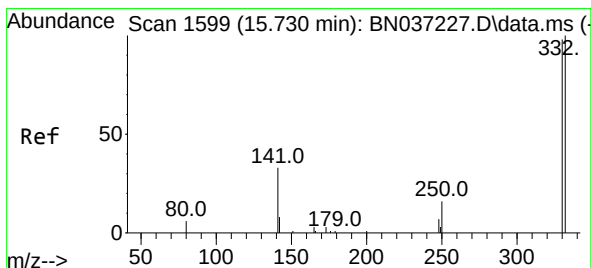
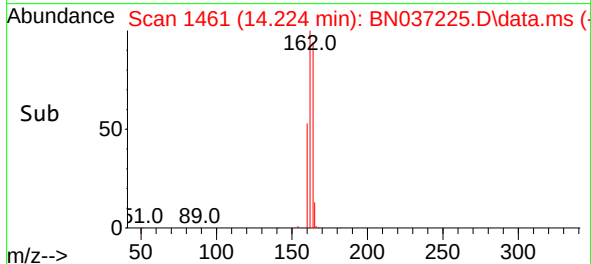
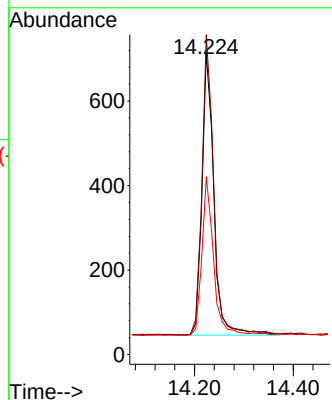
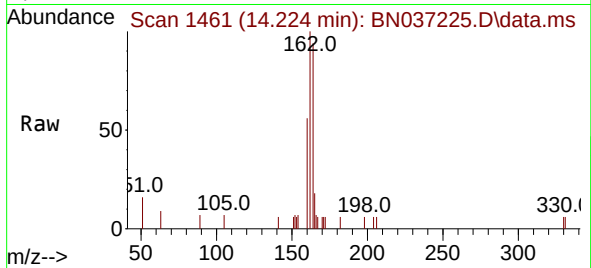




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

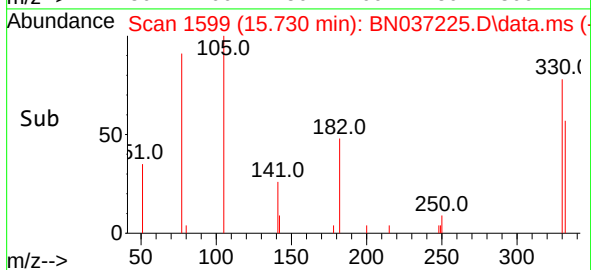
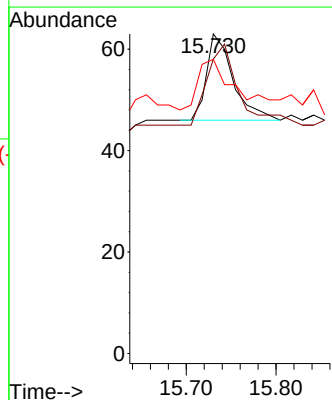
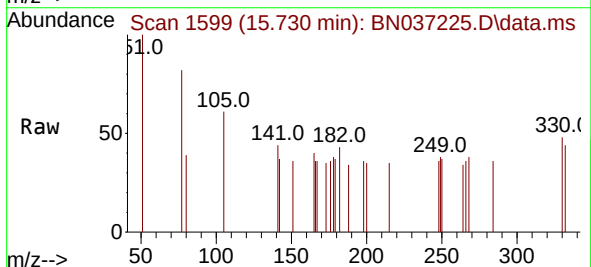
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

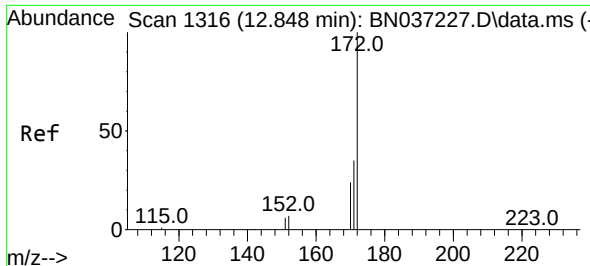
Tgt Ion:164 Resp: 1114
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 59.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:330 Resp: 35
Ion Ratio Lower Upper
330 100
332 111.4 74.9 112.3
141 82.9 45.1 67.7#

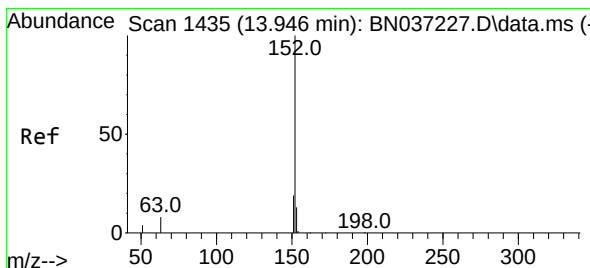
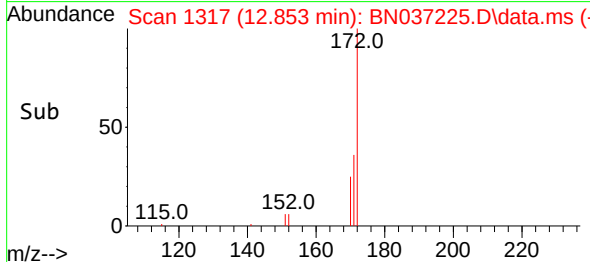
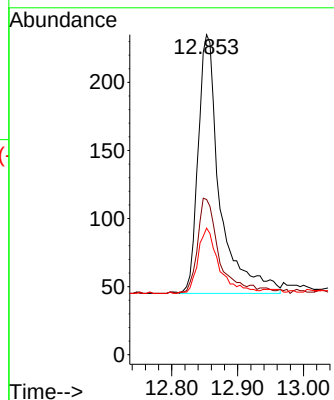
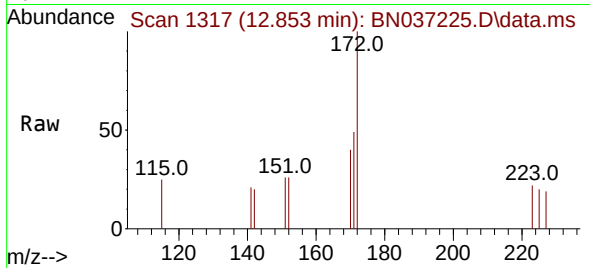




#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

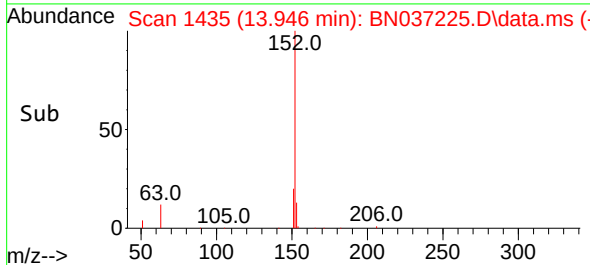
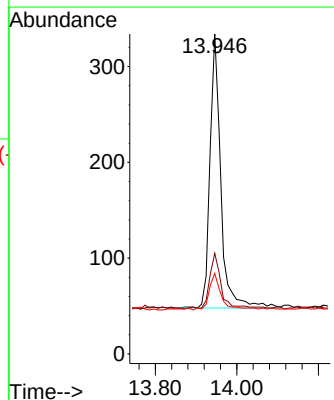
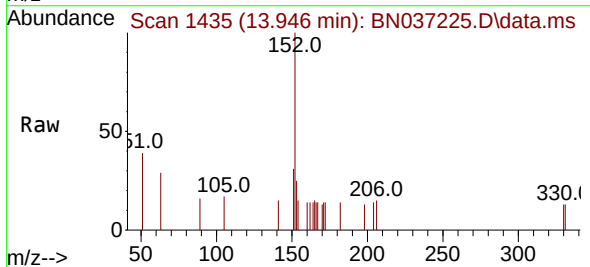
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

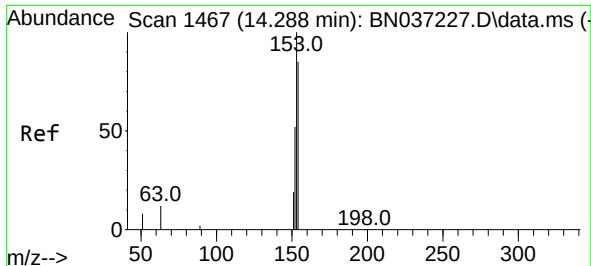
Tgt Ion:172 Resp: 436
Ion Ratio Lower Upper
172 100
171 48.5 29.8 44.8#
170 39.6 21.1 31.7#



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531
Ion Ratio Lower Upper
152 100
151 22.4 15.7 23.5
153 14.9 10.7 16.1

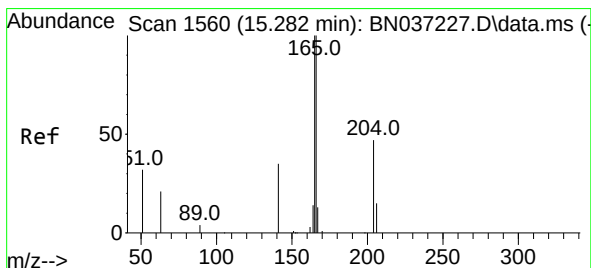
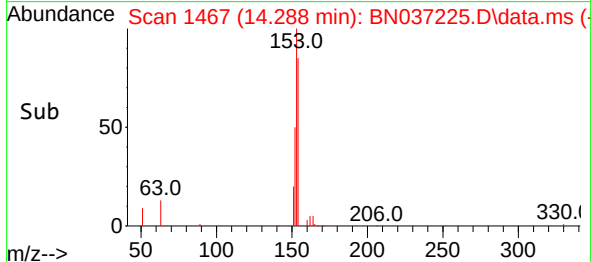
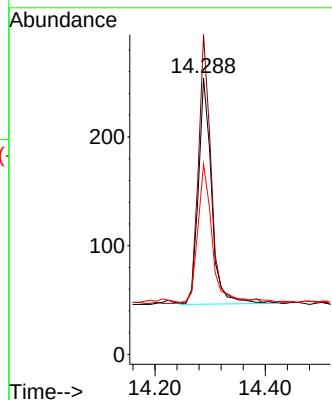
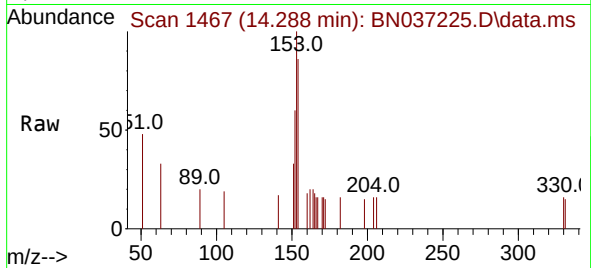




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

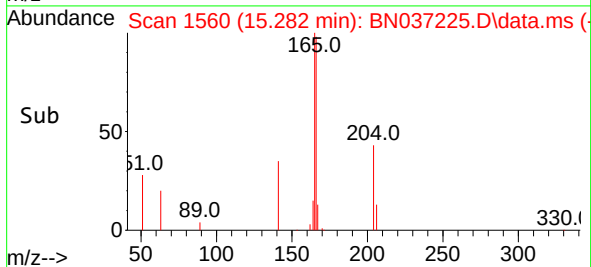
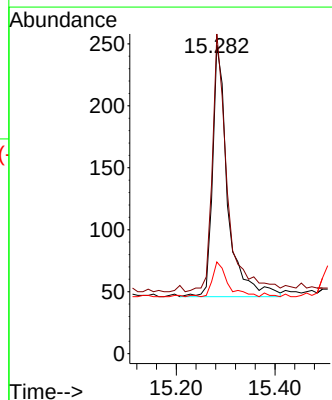
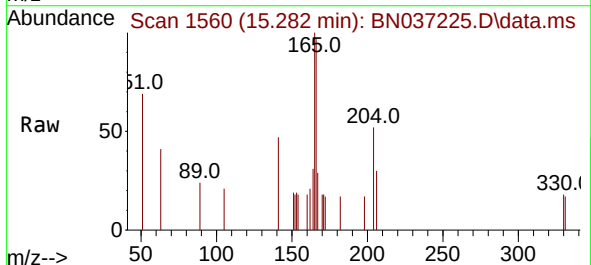
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

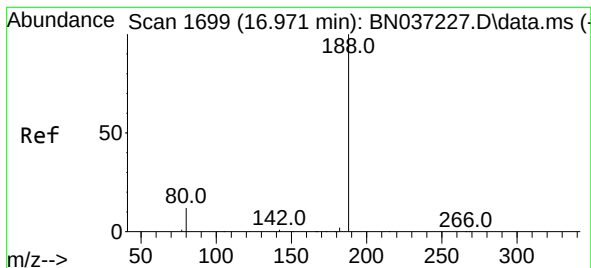
Tgt Ion:154 Resp: 346
Ion Ratio Lower Upper
154 100
153 114.5 94.6 141.8
152 65.9 49.6 74.4



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

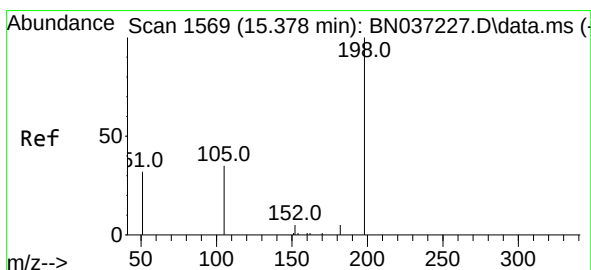
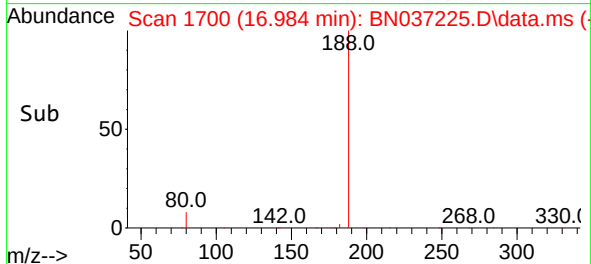
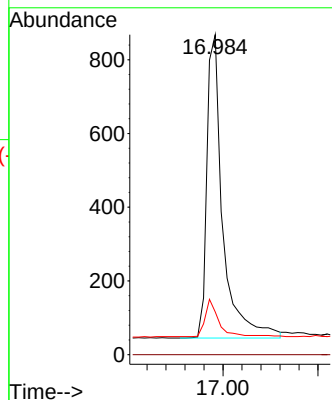
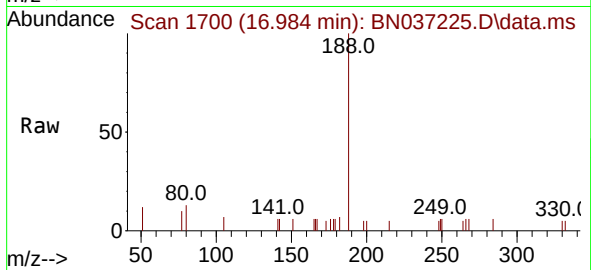
Tgt Ion:188 Resp: 1916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.146 ng

RT: 15.421 min Scan# 1573

Delta R.T. 0.043 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

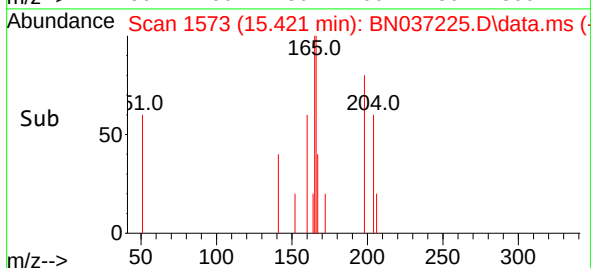
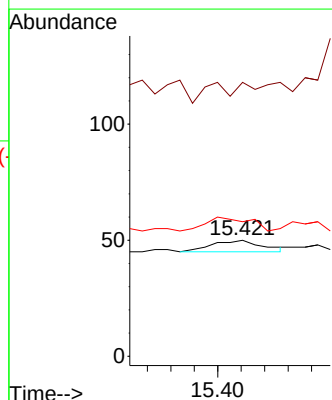
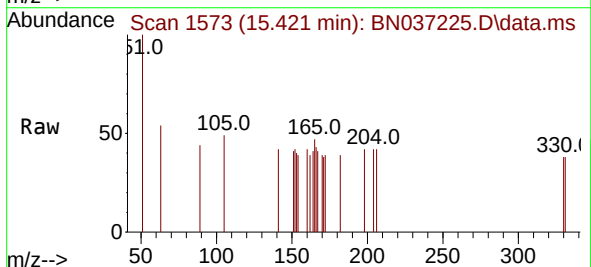
Tgt Ion:198 Resp: 15

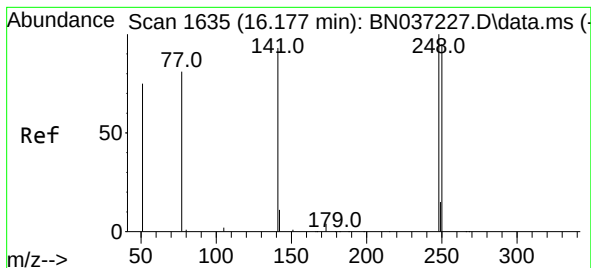
Ion Ratio Lower Upper

198 100

51 236.0 111.2 166.8#

105 116.0 54.0 81.0#

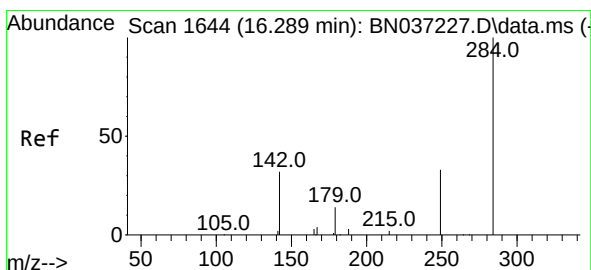
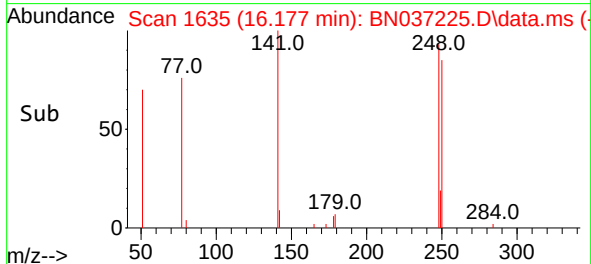
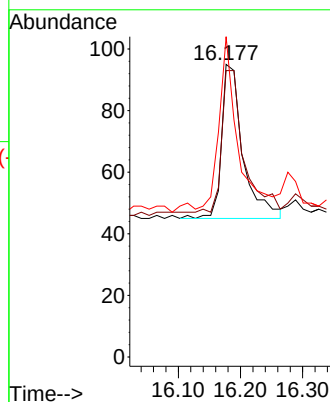
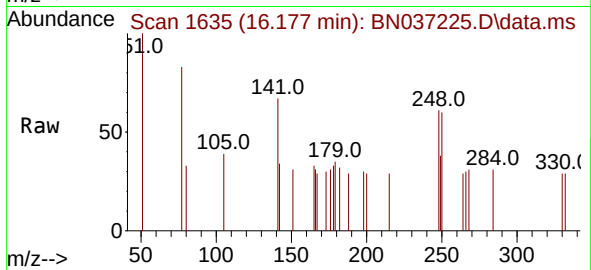




#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

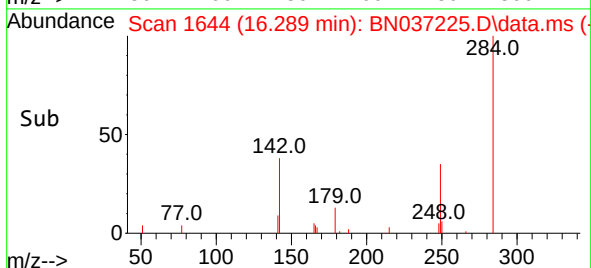
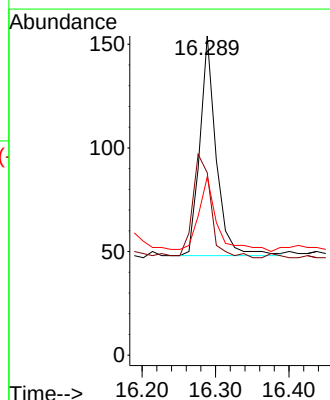
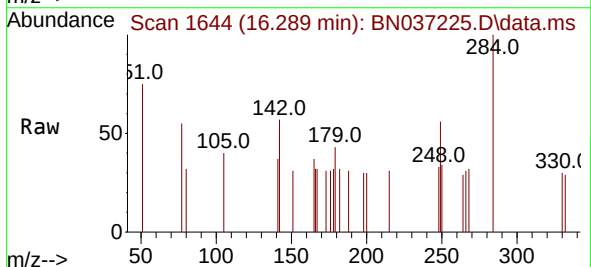
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

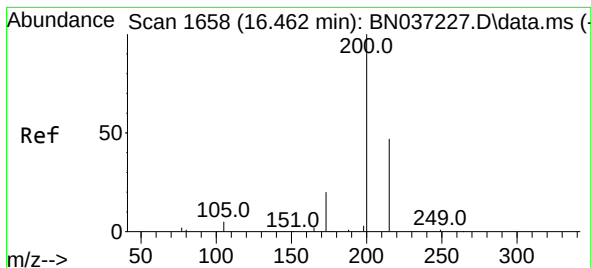
Tgt Ion:248 Resp: 119
Ion Ratio Lower Upper
248 100
250 97.9 76.8 115.2
141 109.5 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.113 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 164
Ion Ratio Lower Upper
284 100
142 52.4 43.8 65.6
249 38.4 28.4 42.6





#23

Atrazine

Concen: 0.096 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

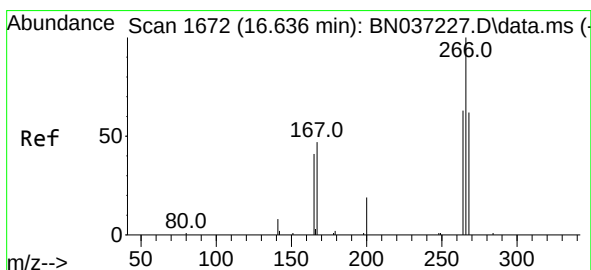
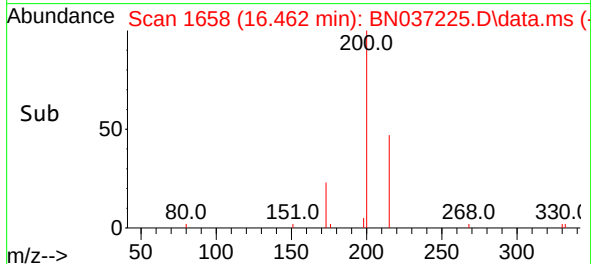
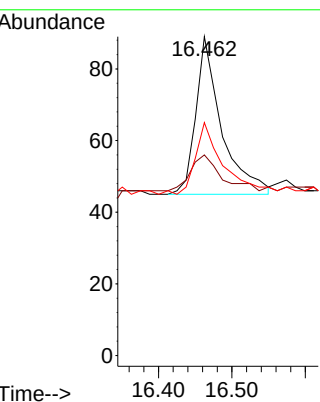
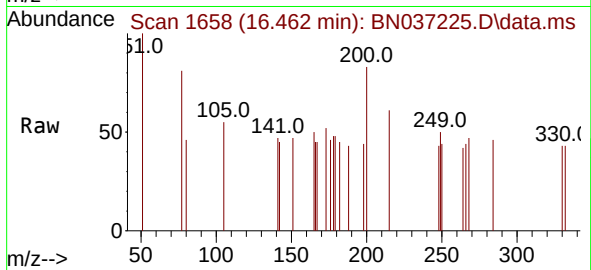
Tgt Ion:200 Resp: 107

Ion Ratio Lower Upper

200 100

173 62.9 25.1 37.7#

215 73.0 43.7 65.5#



#24

Pentachlorophenol

Concen: 0.073 ng

RT: 16.661 min Scan# 1674

Delta R.T. 0.025 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

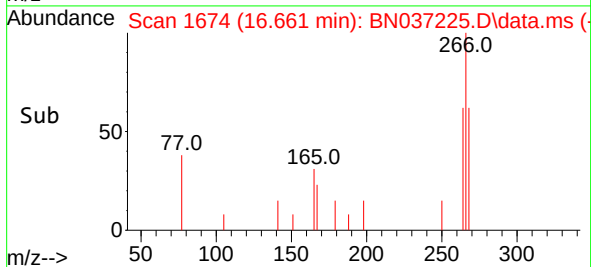
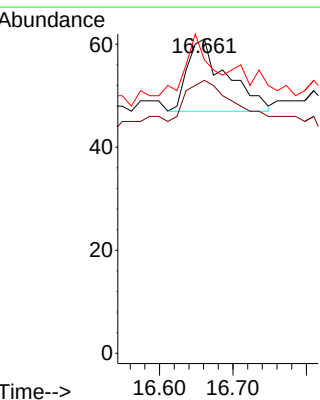
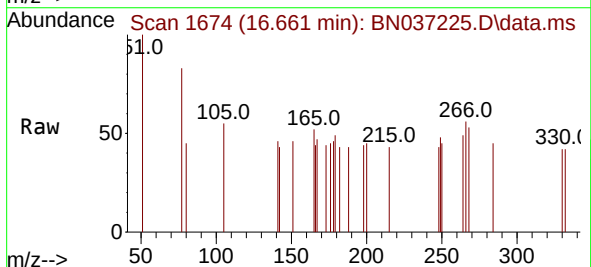
Tgt Ion:266 Resp: 52

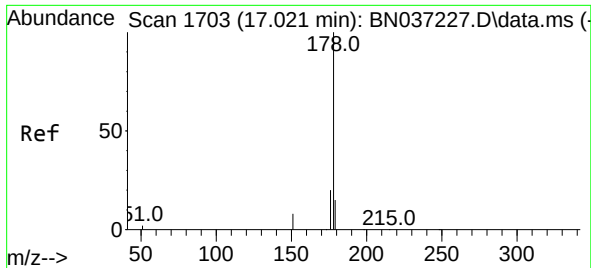
Ion Ratio Lower Upper

266 100

264 73.1 49.2 73.8

268 82.7 53.4 80.2#

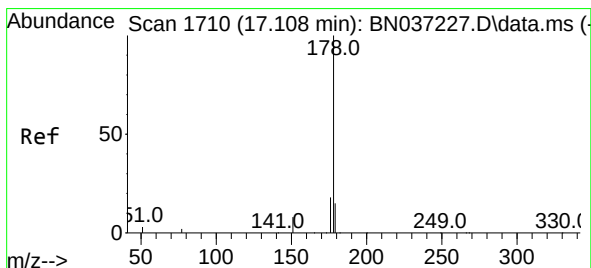
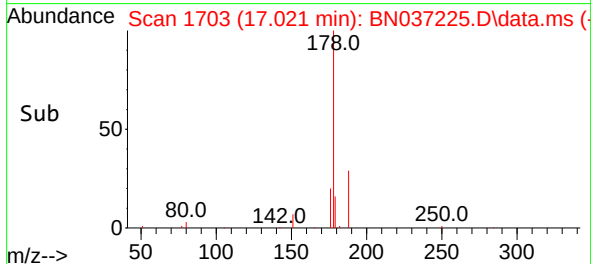
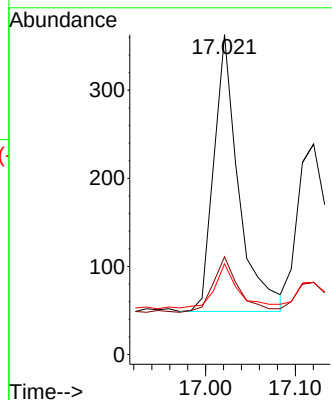
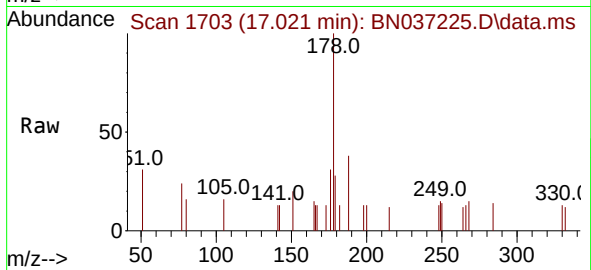




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

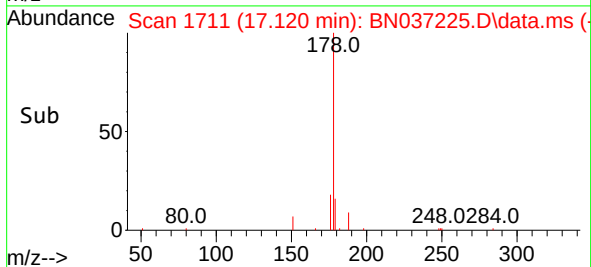
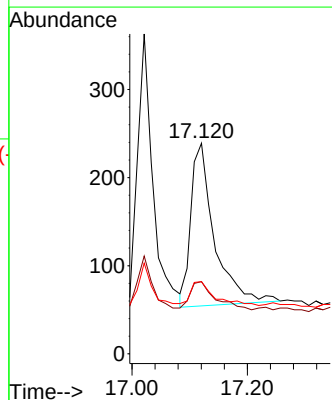
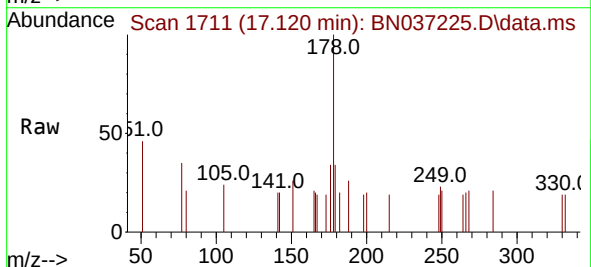
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

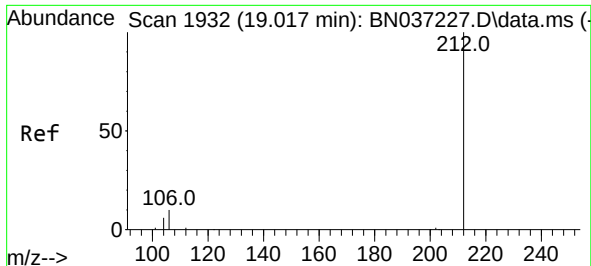
Tgt Ion:178 Resp: 600
Ion Ratio Lower Upper
178 100
176 20.3 16.3 24.5
179 15.8 12.6 18.8



#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 524
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.1 12.4 18.6

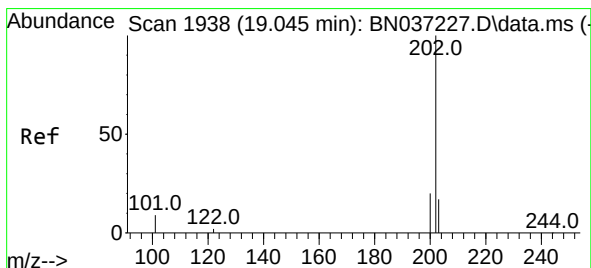
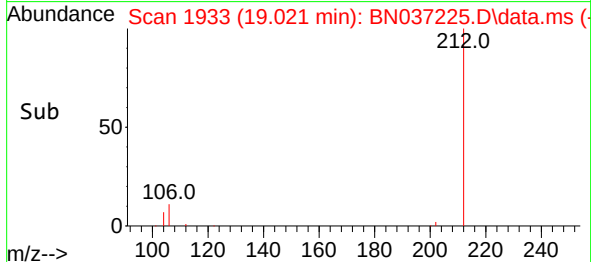
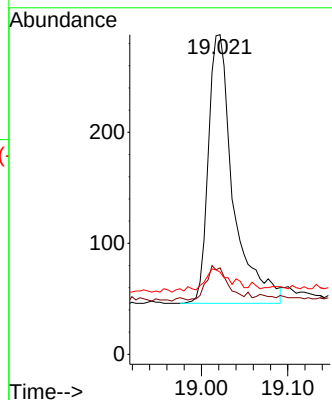
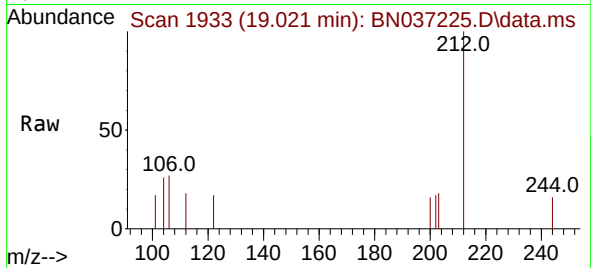




#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1933
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

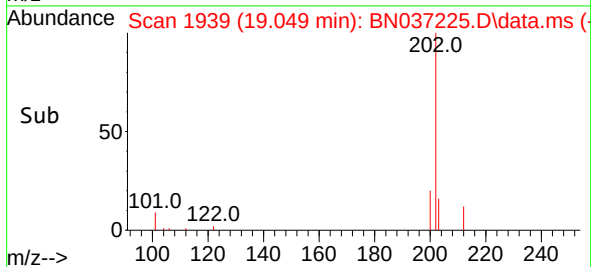
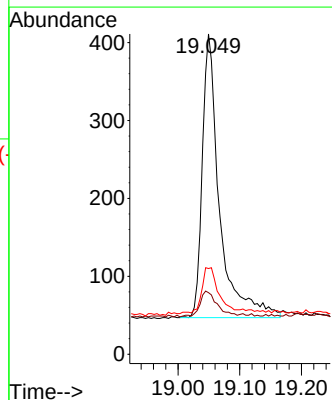
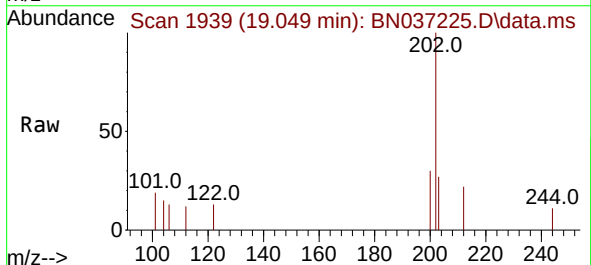
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

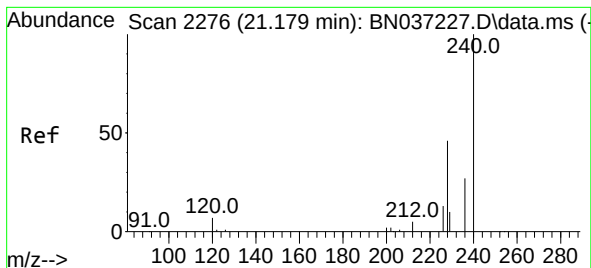
Tgt Ion:212 Resp: 486
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 9.7 5.7 8.5#



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704
Ion Ratio Lower Upper
202 100
101 9.1 7.1 10.7
203 15.9 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

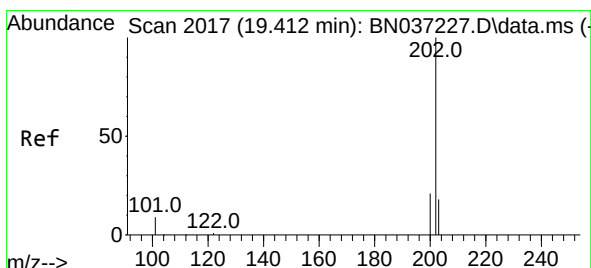
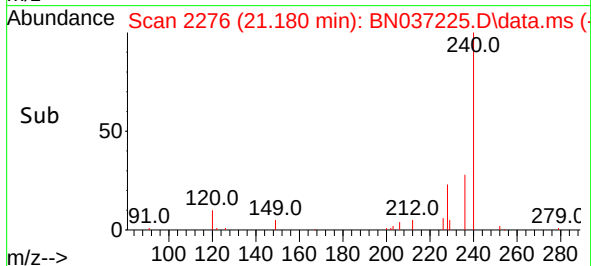
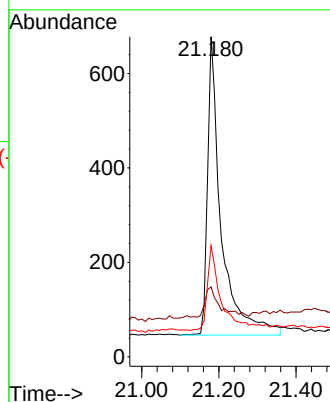
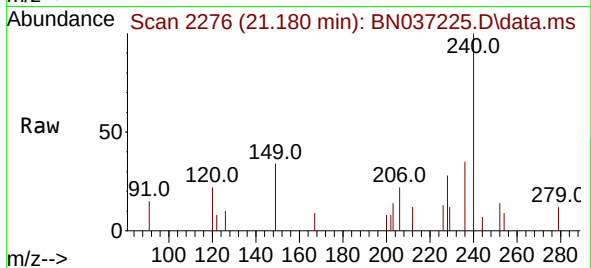
Tgt Ion:240 Resp: 1546

Ion Ratio Lower Upper

240 100

120 21.8 11.3 16.9#

236 34.7 24.4 36.6



#30

Pyrene

Concen: 0.098 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

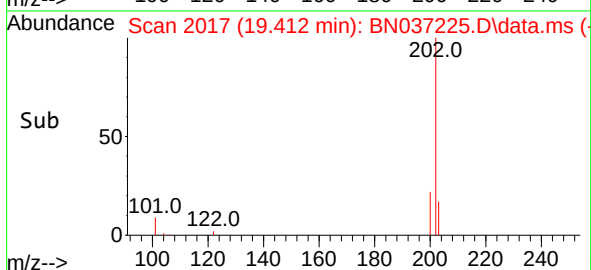
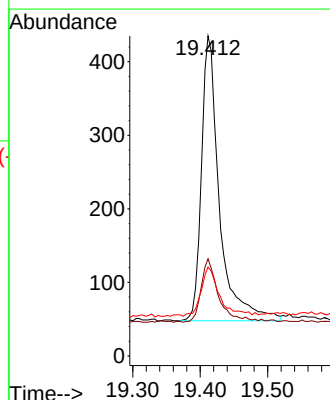
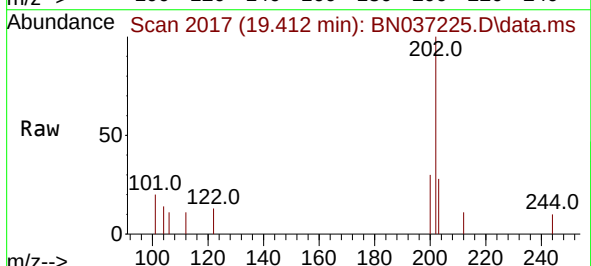
Tgt Ion:202 Resp: 715

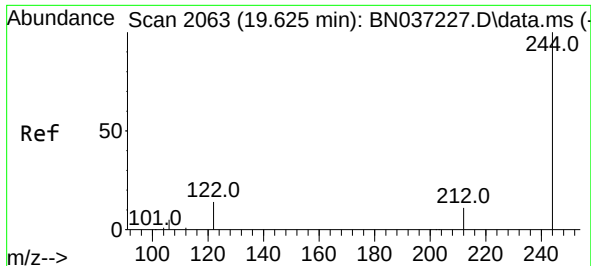
Ion Ratio Lower Upper

202 100

200 21.8 17.2 25.8

203 18.0 14.3 21.5

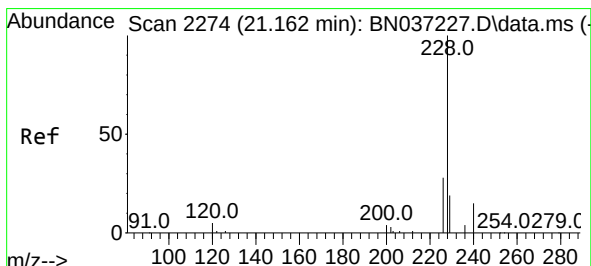
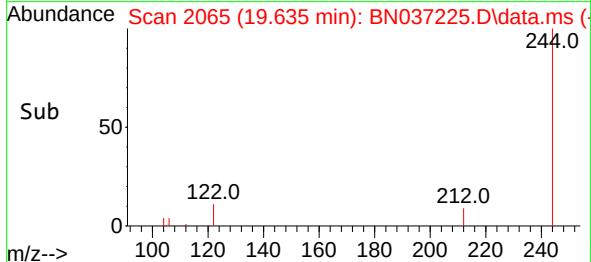
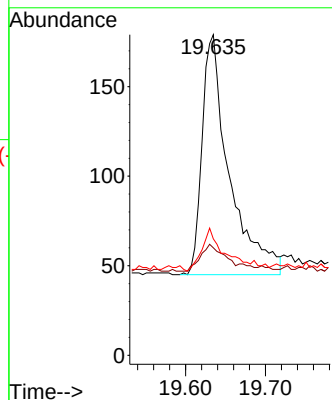
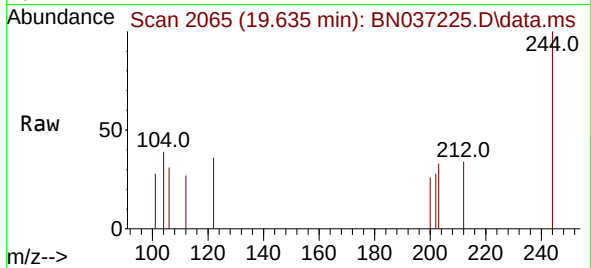




#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2065
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

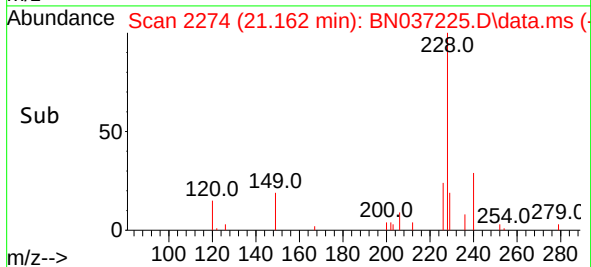
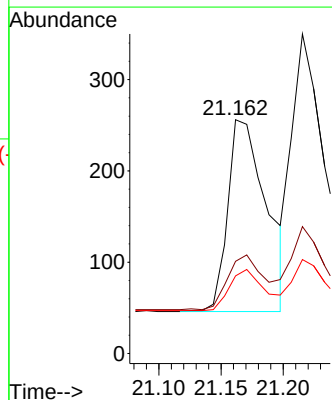
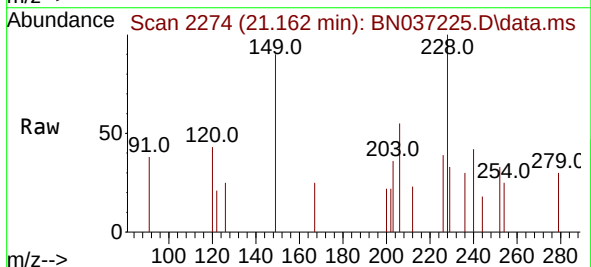
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

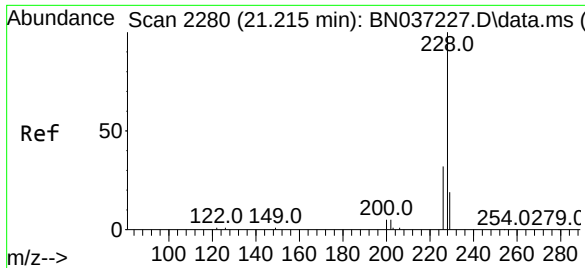
Tgt Ion:244 Resp: 315
Ion Ratio Lower Upper
244 100
212 33.5 12.2 18.2#
122 36.3 14.3 21.5#



#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454
Ion Ratio Lower Upper
228 100
226 39.5 23.8 35.8#
229 33.2 17.0 25.4#

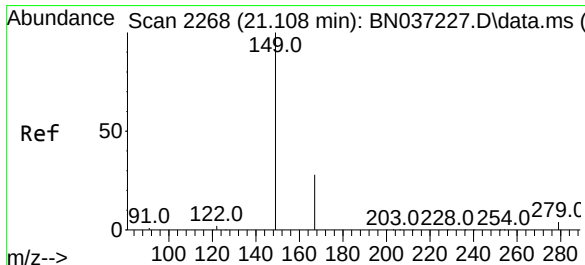
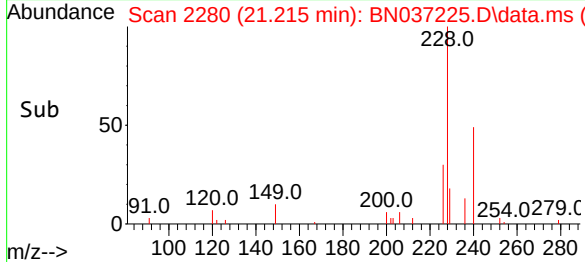
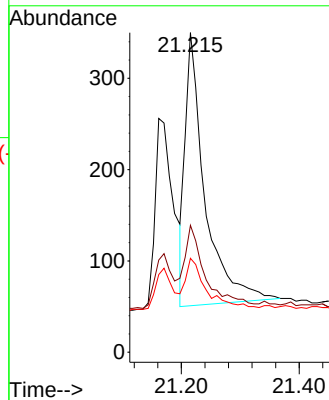
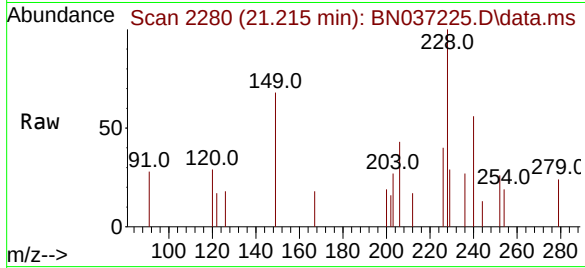




#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

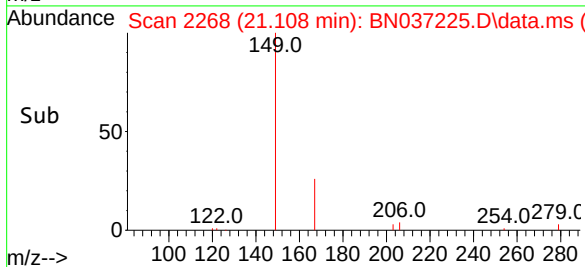
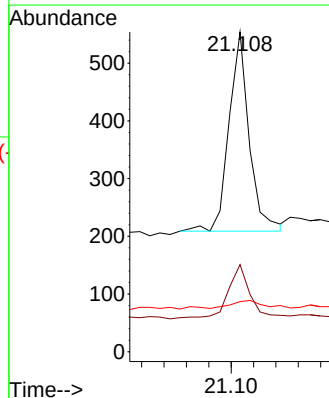
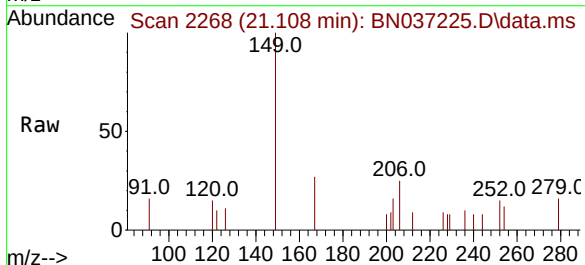
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

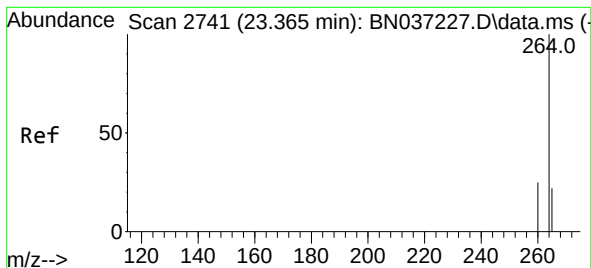
Tgt Ion:228 Resp: 689
Ion Ratio Lower Upper
228 100
226 39.7 25.8 38.6#
229 29.4 17.0 25.4#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:149 Resp: 432
Ion Ratio Lower Upper
149 100
167 27.8 21.3 31.9
279 8.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.368 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

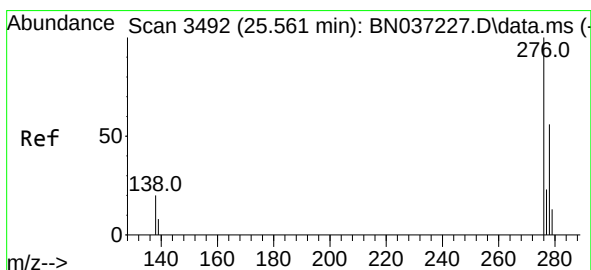
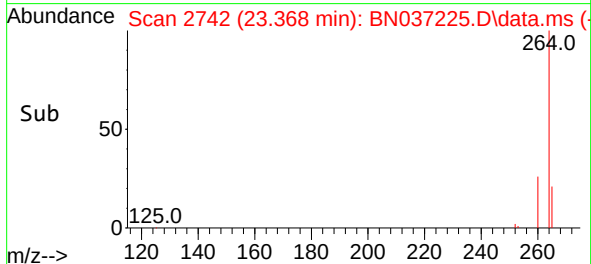
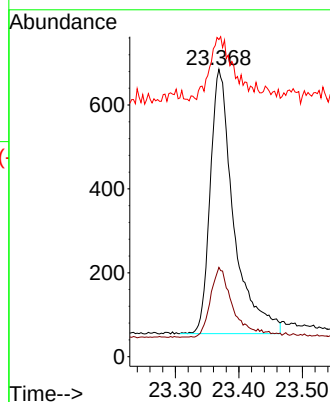
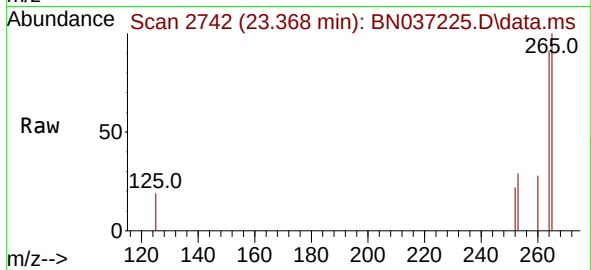
Tgt Ion:264 Resp: 1617

Ion Ratio Lower Upper

264 100

260 31.1 22.8 34.2

265 110.4 66.4 99.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.093 ng

RT: 25.570 min Scan# 3495

Delta R.T. 0.009 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

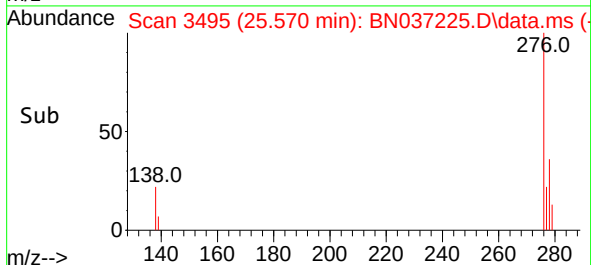
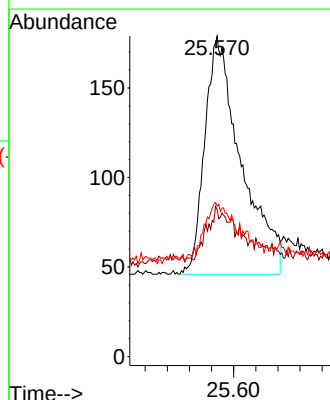
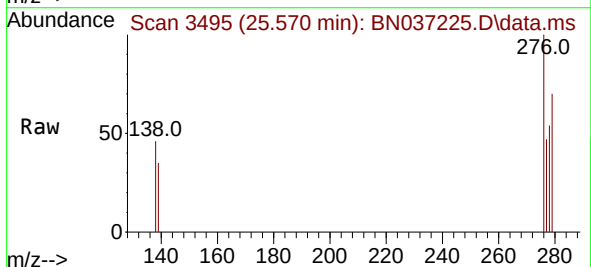
Tgt Ion:276 Resp: 609

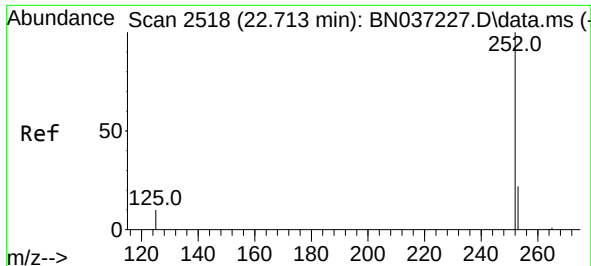
Ion Ratio Lower Upper

276 100

138 1.3 16.8 25.2#

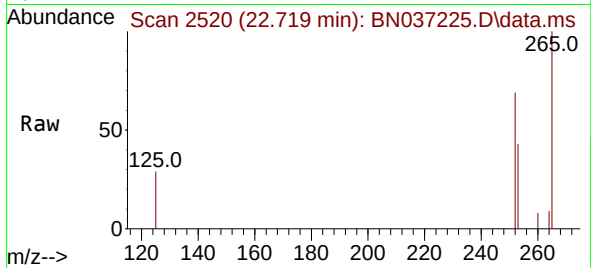
277 18.6 19.5 29.3#



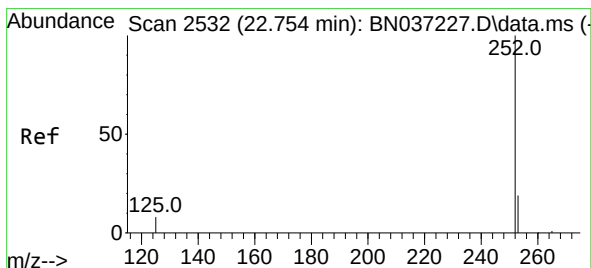
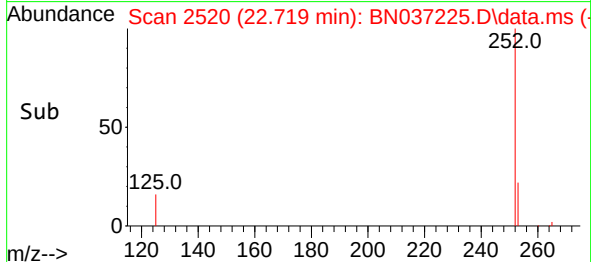
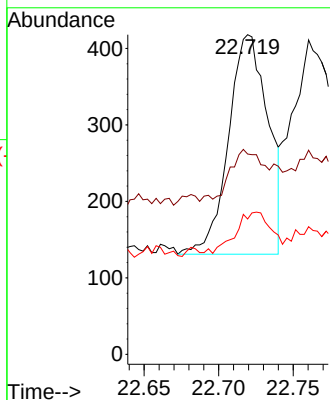


#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2518
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

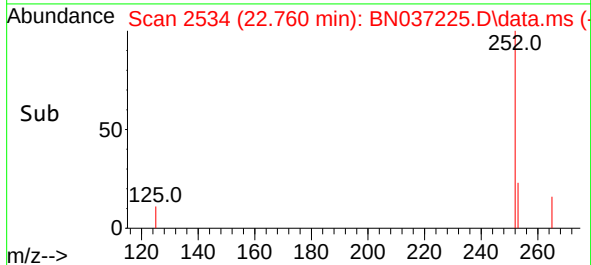
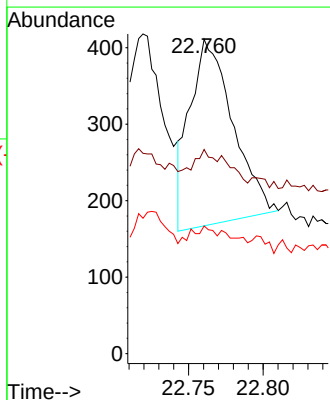
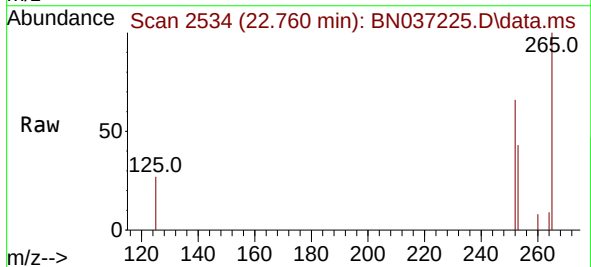


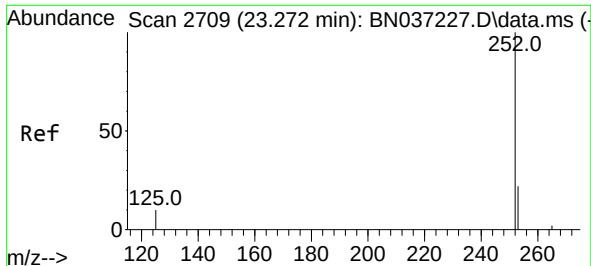
Tgt Ion:252 Resp: 529
Ion Ratio Lower Upper
252 100
253 62.7 24.9 37.3#
125 42.3 12.9 19.3#



#38
Benzo(k)fluoranthene
Concen: 0.072 ng
RT: 22.760 min Scan# 2534
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 488
Ion Ratio Lower Upper
252 100
253 65.0 24.6 37.0#
125 40.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

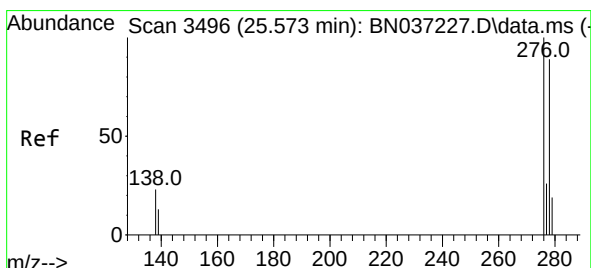
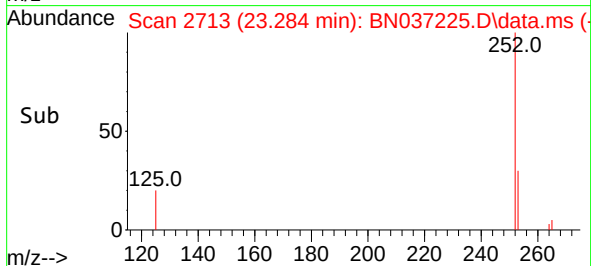
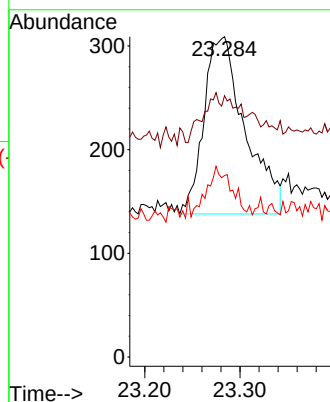
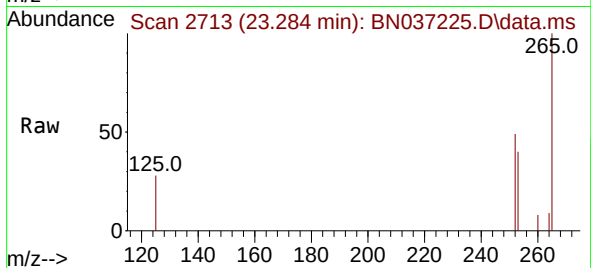
Tgt Ion:252 Resp: 514

Ion Ratio Lower Upper

252 100

253 81.6 29.4 44.2#

125 56.6 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.064 ng

RT: 25.590 min Scan# 3502

Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

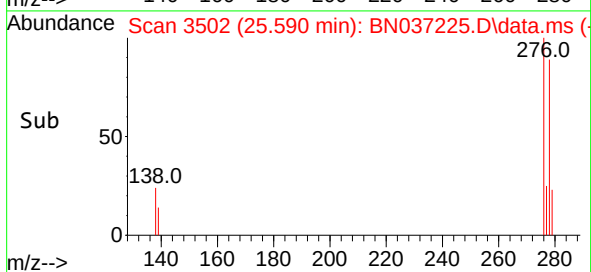
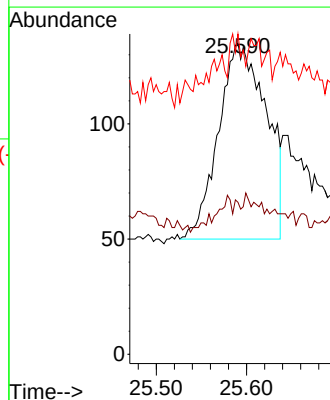
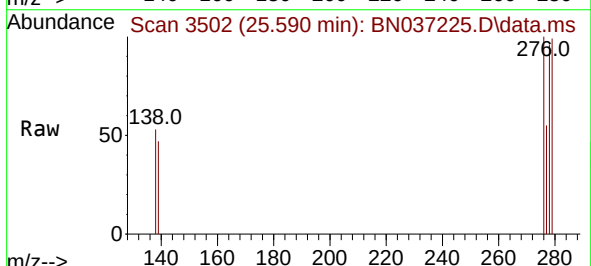
Tgt Ion:278 Resp: 313

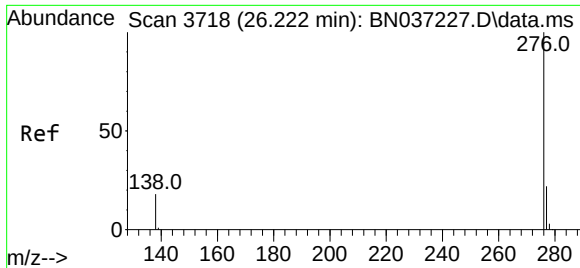
Ion Ratio Lower Upper

278 100

139 48.9 17.8 26.6#

279 103.0 31.3 46.9#

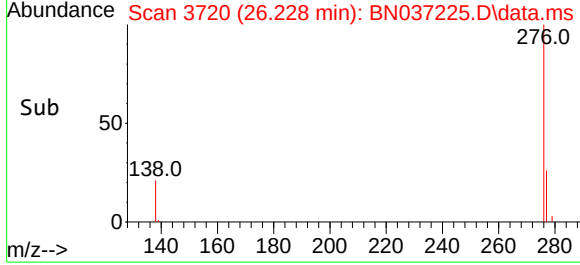
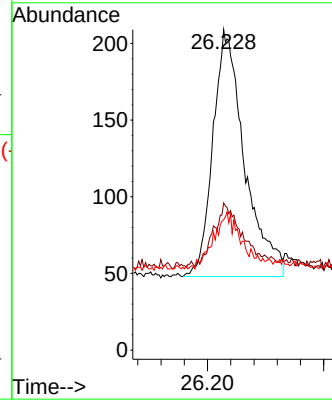
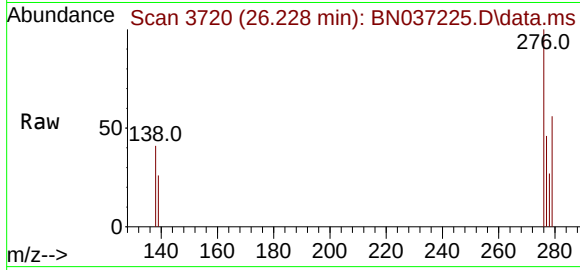




#41
 Benzo(g,h,i)perylene
 Concen: 0.101 ng
 RT: 26.228 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:	276	Resp:	608
Ion	Ratio	Lower	Upper
276	100		
277	45.9	22.0	33.0#
138	40.7	18.4	27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037246.D
 Acq On : 14 Jun 2025 03:32
 Operator : RC/JU
 Sample : Q2299-03MS
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MS

Quant Time: Jun 14 04:22:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

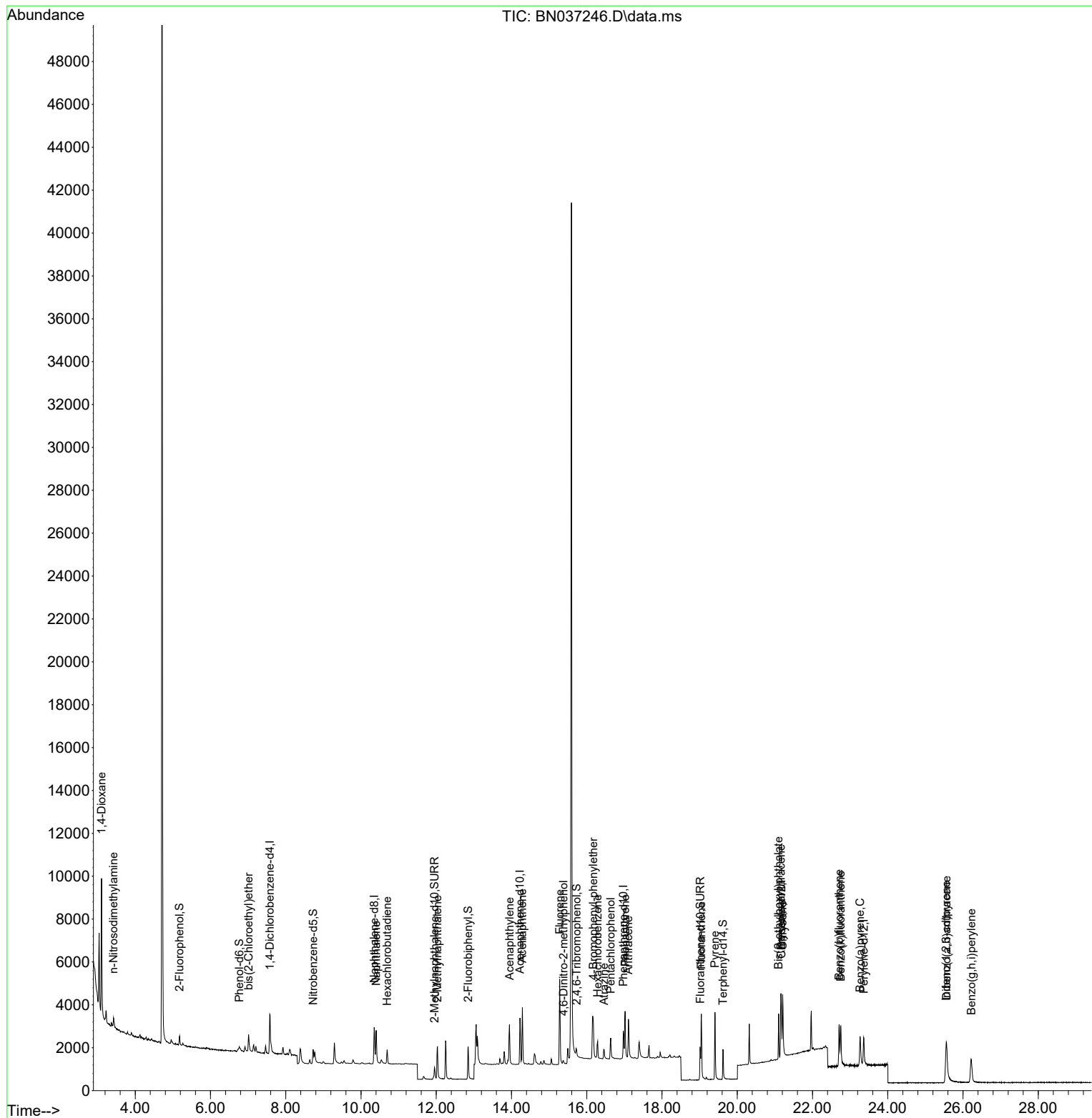
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	952	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2349	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1209	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2152	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1734	0.400	ng	0.00
35) Perylene-d12	23.363	264	1757	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	294	0.126	ng	0.00
5) Phenol-d6	6.766	99	177	0.072	ng	0.00
8) Nitrobenzene-d5	8.728	82	665	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1062	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	173	0.345	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1503	0.296	ng	0.00
27) Fluoranthene-d10	19.017	212	1941	0.345	ng	0.00
31) Terphenyl-d14	19.621	244	1642	0.419	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	2754	2.109	ng	# 91
3) n-Nitrosodimethylamine	3.422	42	489	0.164	ng	99
6) bis(2-Chloroethyl)ether	7.011	93	689	0.312	ng	94
9) Naphthalene	10.404	128	2106	0.310	ng	98
10) Hexachlorobutadiene	10.692	225	492	0.297	ng	# 99
12) 2-Methylnaphthalene	12.031	142	1184	0.286	ng	97
16) Acenaphthylene	13.946	152	2092	0.353	ng	98
17) Acenaphthene	14.288	154	1223	0.320	ng	100
18) Fluorene	15.282	166	1616	0.329	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	182	0.438	ng	88
21) 4-Bromophenyl-phenylether	16.177	248	506	0.361	ng	92
22) Hexachlorobenzene	16.289	284	539	0.332	ng	96
23) Atrazine	16.462	200	508	0.406	ng	97
24) Pentachlorophenol	16.636	266	556	0.698	ng	98
25) Phenanthrene	17.021	178	2496	0.366	ng	98
26) Anthracene	17.108	178	2343	0.375	ng	99
28) Fluoranthene	19.045	202	3009	0.377	ng	# 95
30) Pyrene	19.407	202	3076	0.377	ng	100
32) Benzo(a)anthracene	21.162	228	2465	0.421	ng	99
33) Chrysene	21.206	228	2864	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1818	0.417	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.549	276	2816	0.397	ng	99
37) Benzo(b)fluoranthene	22.708	252	2482	0.386	ng	97
38) Benzo(k)fluoranthene	22.751	252	2823	0.381	ng	98
39) Benzo(a)pyrene	23.266	252	2344	0.405	ng	99
40) Dibenzo(a,h)anthracene	25.564	278	2000	0.371	ng	98
41) Benzo(g,h,i)perylene	26.219	276	2427	0.369	ng	97

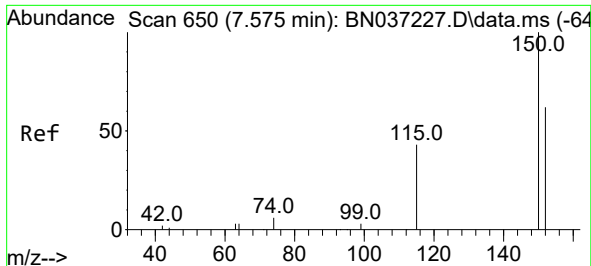
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037246.D
Acq On : 14 Jun 2025 03:32
Operator : RC/JU
Sample : Q2299-03MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

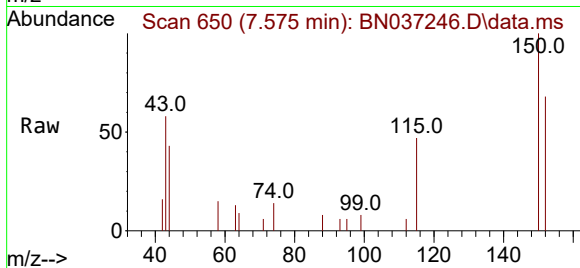
Quant Time: Jun 14 04:22:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



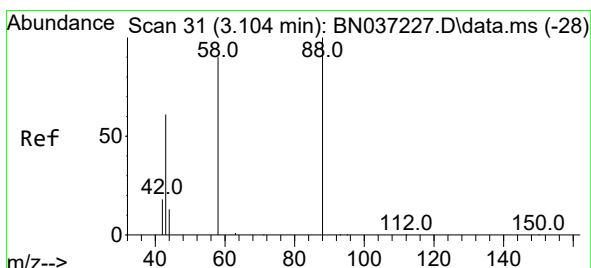
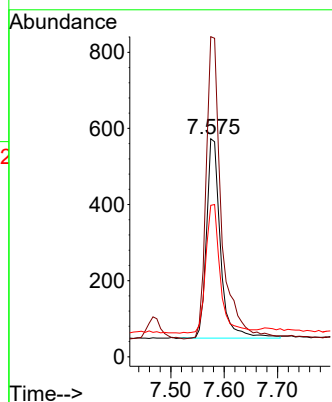
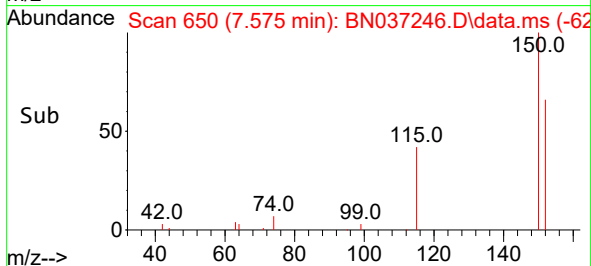


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037246.D
 Acq: 14 Jun 2025 03:32

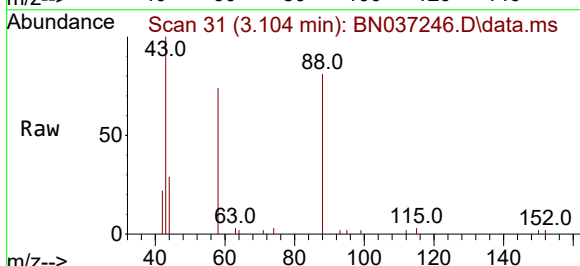
Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MS



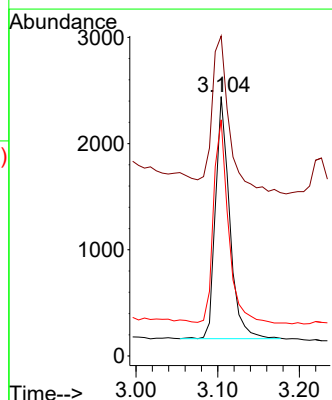
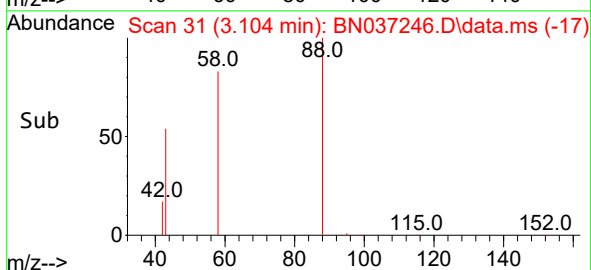
Tgt Ion:152 Resp: 952
 Ion Ratio Lower Upper
 152 100
 150 146.8 125.2 187.8
 115 69.5 58.4 87.6

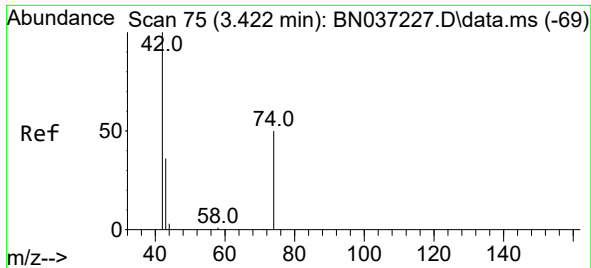


#2
 1,4-Dioxane
 Concen: 2.109 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037246.D
 Acq: 14 Jun 2025 03:32



Tgt Ion: 88 Resp: 2754
 Ion Ratio Lower Upper
 88 100
 43 79.0 52.6 79.0#
 58 88.0 73.5 110.3

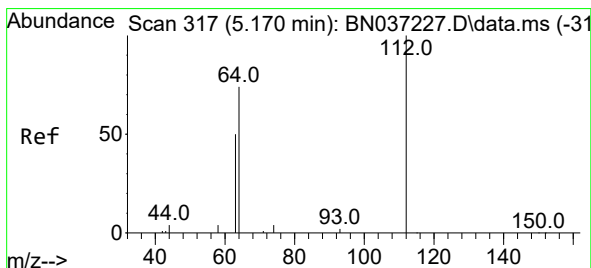
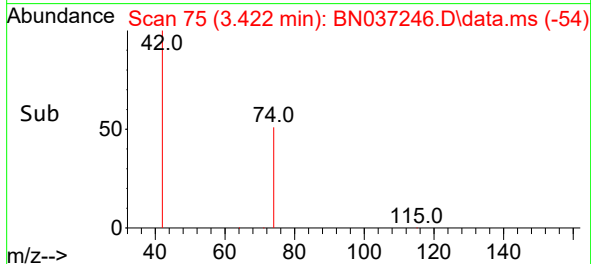
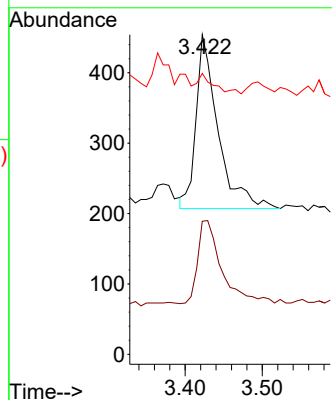
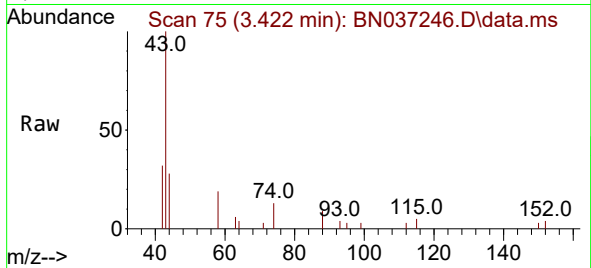




#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

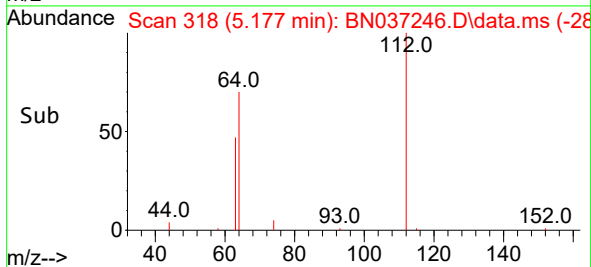
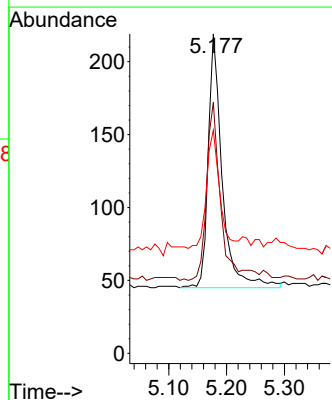
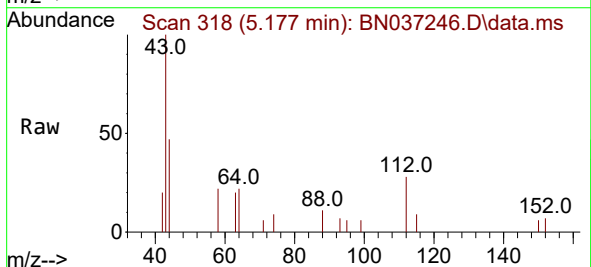
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

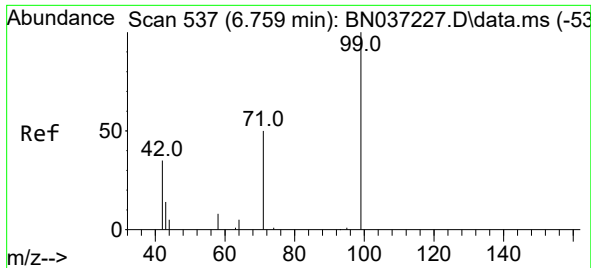
Tgt Ion: 42 Resp: 489
Ion Ratio Lower Upper
42 100
74 54.6 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 112 Resp: 294
Ion Ratio Lower Upper
112 100
64 67.7 57.2 85.8
63 43.5 39.8 59.6

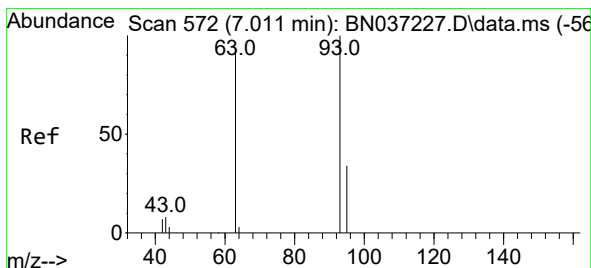
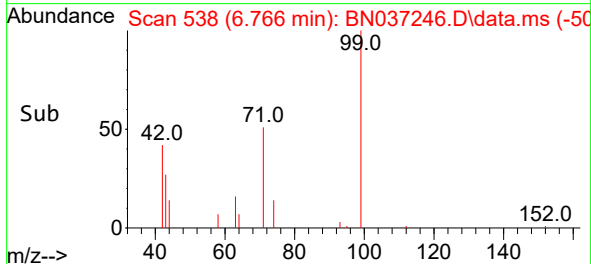
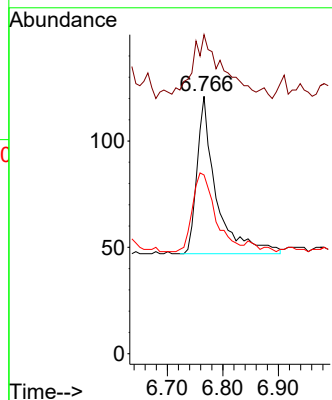
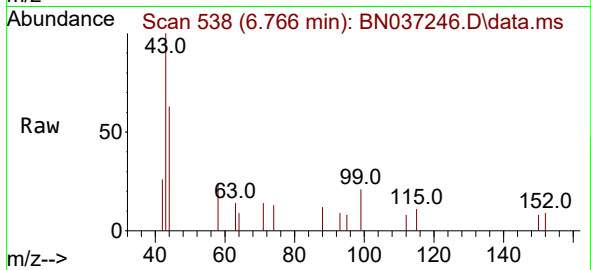




#5
Phenol-d6
Concen: 0.072 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

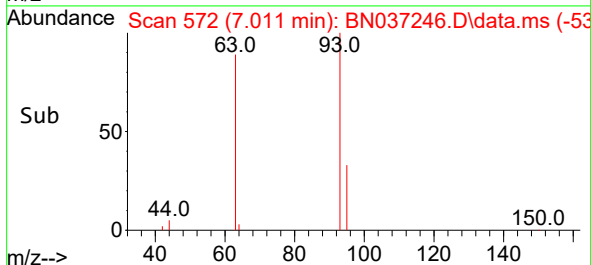
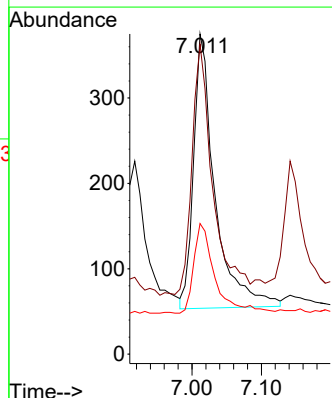
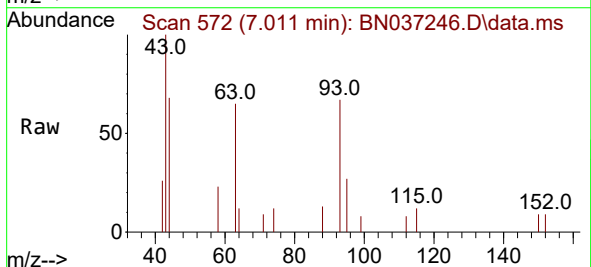
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

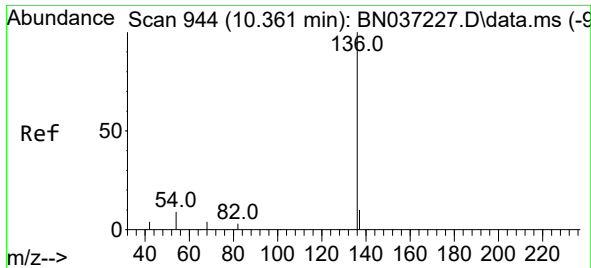
Tgt Ion: 99 Resp: 177
Ion Ratio Lower Upper
99 100
42 54.2 36.2 54.4
71 59.3 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.312 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion: 93 Resp: 689
Ion Ratio Lower Upper
93 100
63 87.7 75.2 112.8
95 32.2 28.3 42.5

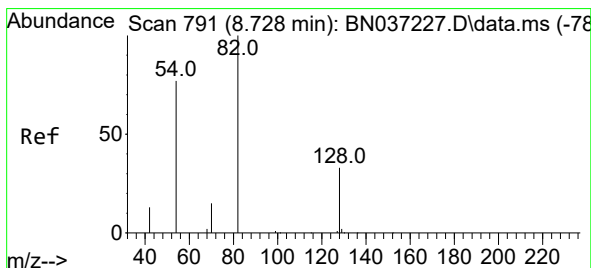
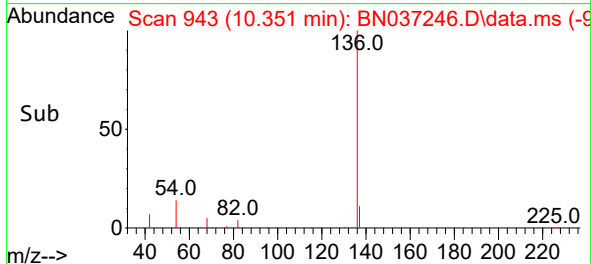
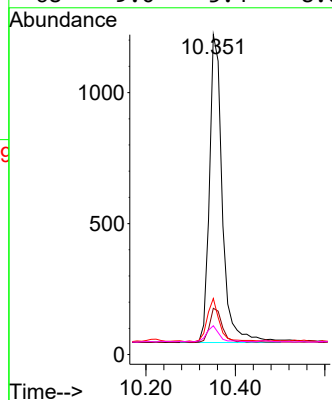
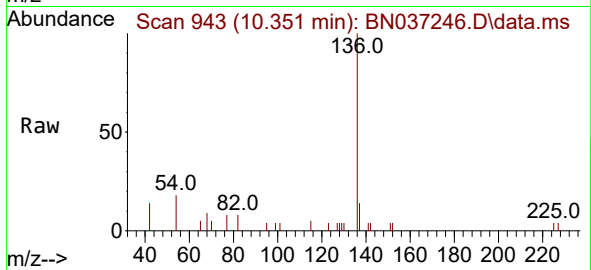




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

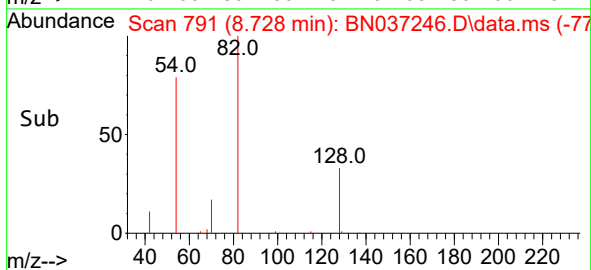
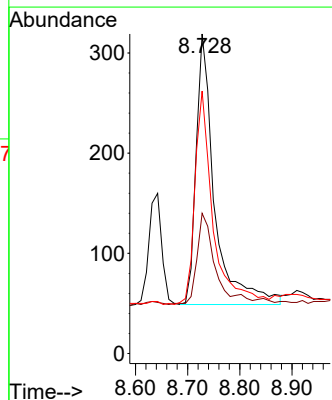
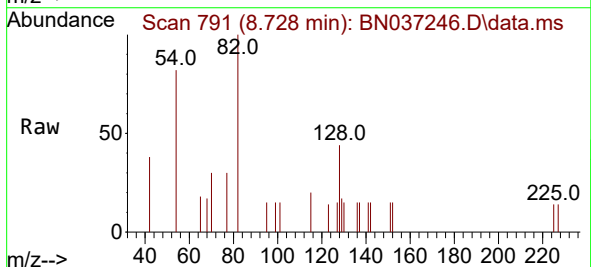
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

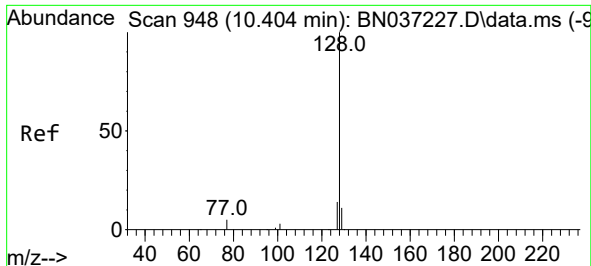
Tgt Ion:	136	Resp:	2349
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.5	9.2	13.8#
68	9.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:	82	Resp:	665
Ion	Ratio	Lower	Upper
82	100		
128	43.9	31.2	46.8
54	82.1	63.3	94.9

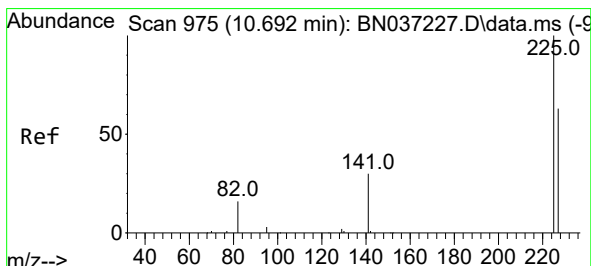
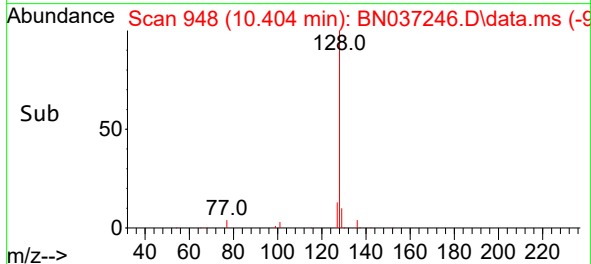
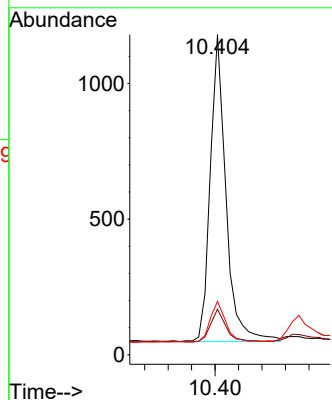
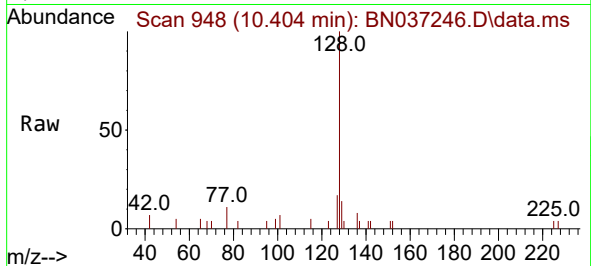




#9
Naphthalene
Concen: 0.310 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

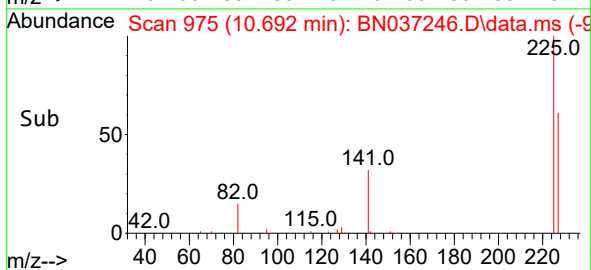
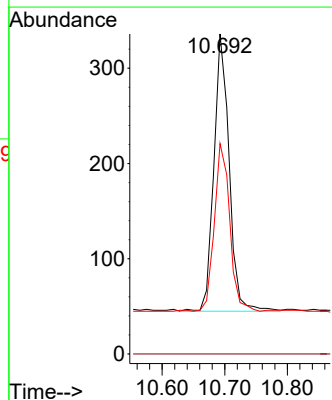
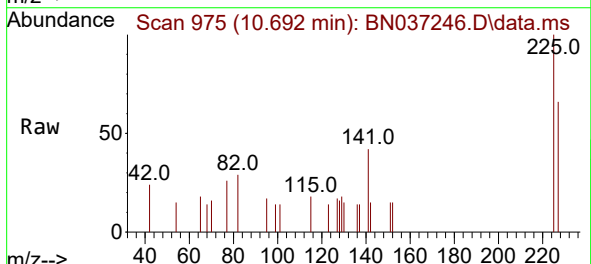
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

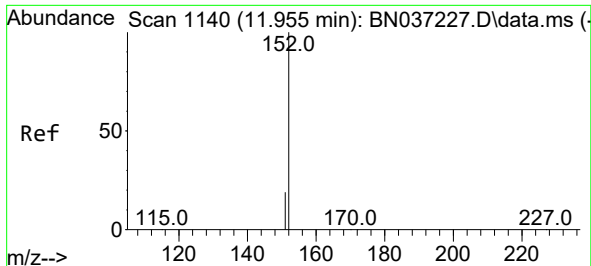
Tgt Ion:	128	Resp:	2106
Ion	Ratio	Lower	Upper
128	100		
129	14.2	10.7	16.1
127	16.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.297 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:	225	Resp:	492
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.0	49.2	73.8

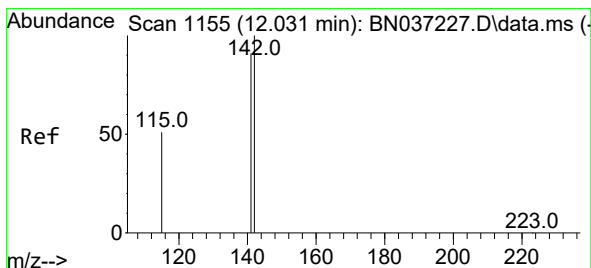
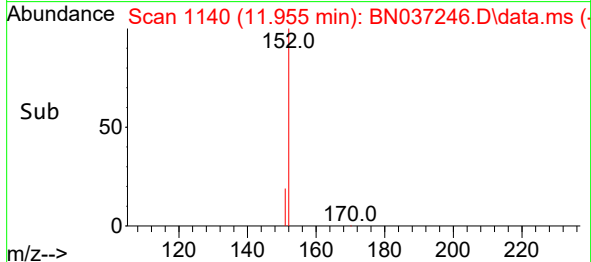
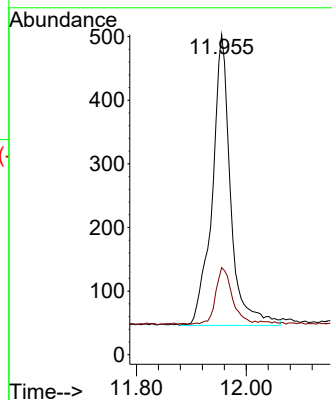
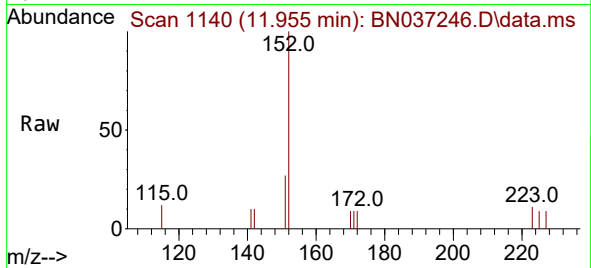




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

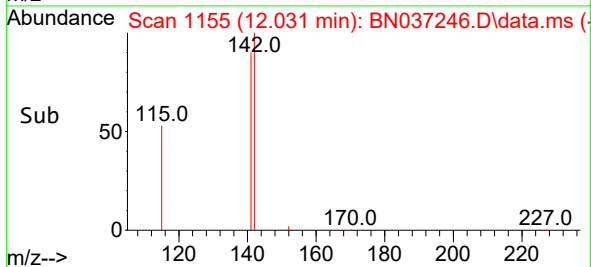
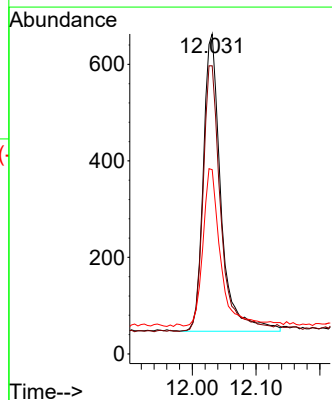
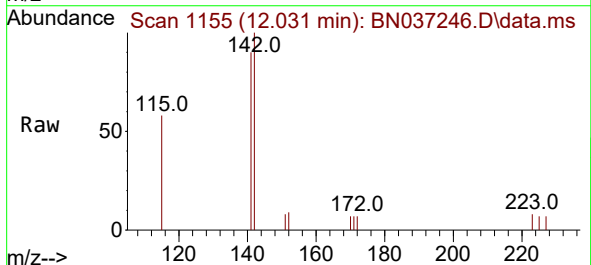
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

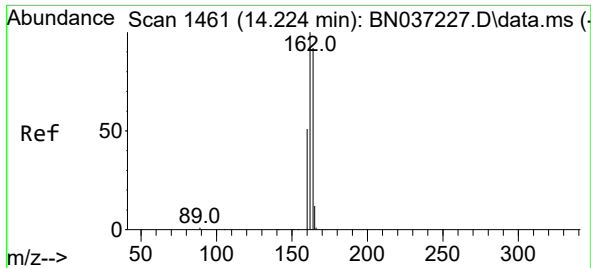
Tgt Ion:152 Resp: 1062
Ion Ratio Lower Upper
152 100
151 17.4 17.9 26.9#



#12
2-Methylnaphthalene
Concen: 0.286 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:142 Resp: 1184
Ion Ratio Lower Upper
142 100
141 90.0 73.0 109.6
115 57.6 43.3 64.9

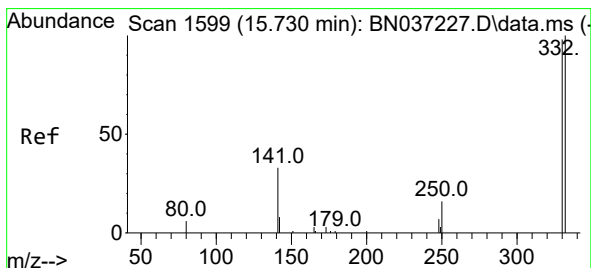
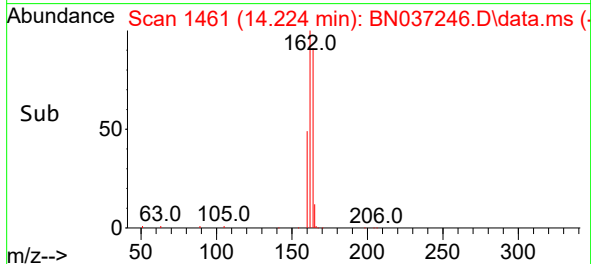
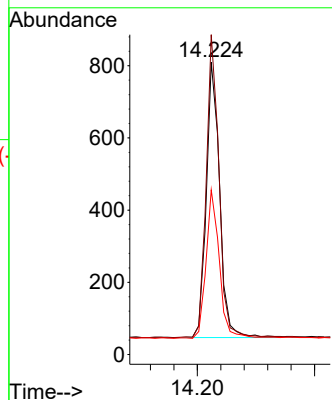
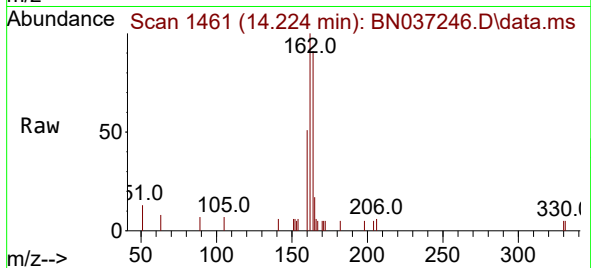




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

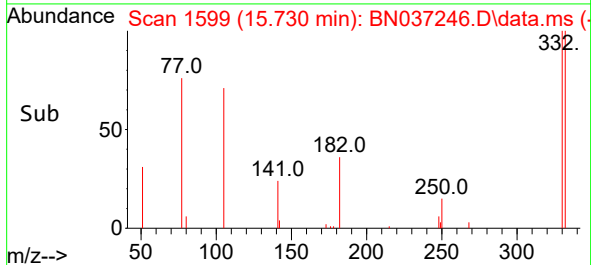
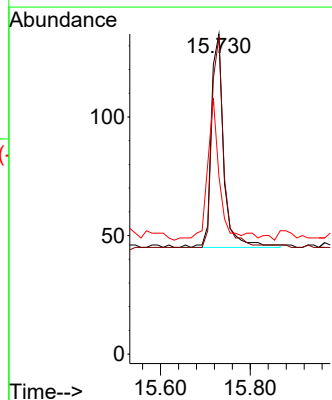
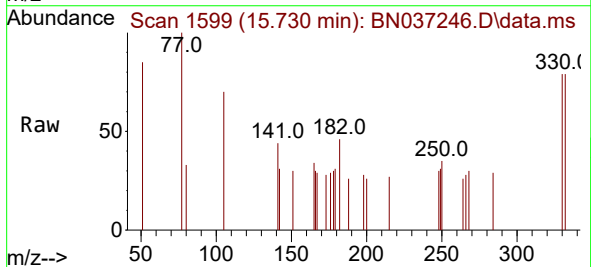
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

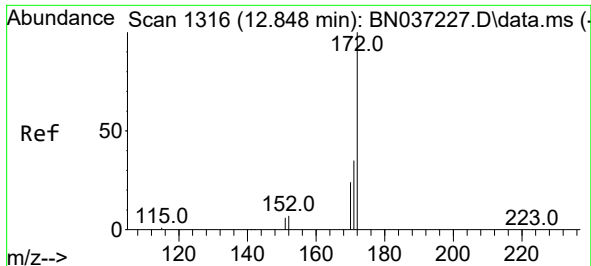
Tgt Ion:164 Resp: 1209
Ion Ratio Lower Upper
164 100
162 109.4 86.7 130.1
160 56.3 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:330 Resp: 173
Ion Ratio Lower Upper
330 100
332 94.8 74.9 112.3
141 63.0 45.1 67.7

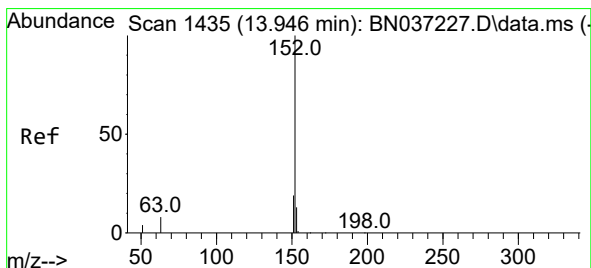
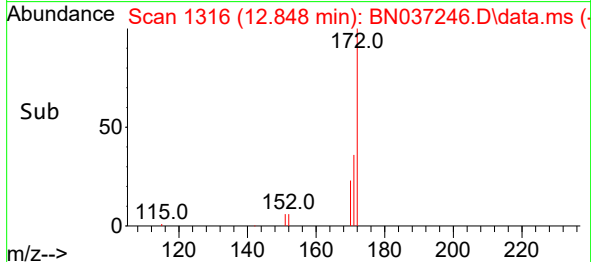
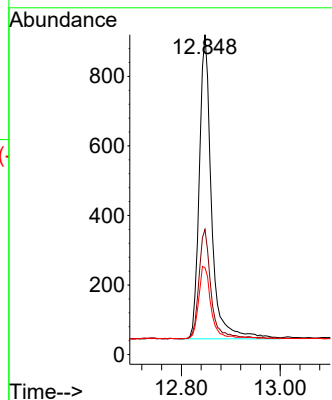
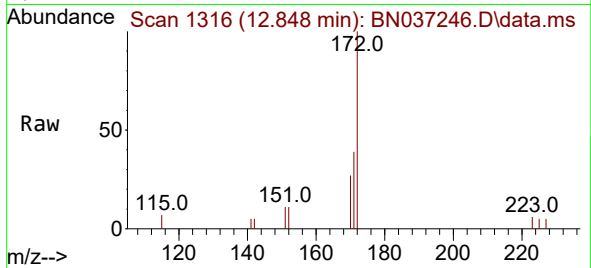




#15
2-Fluorobiphenyl
Concen: 0.296 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

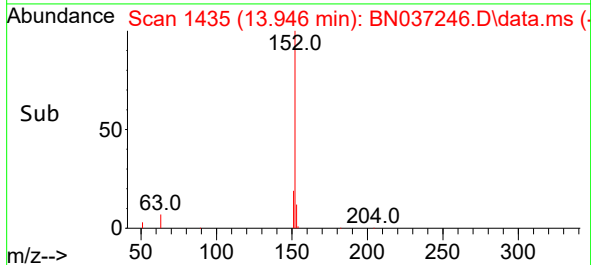
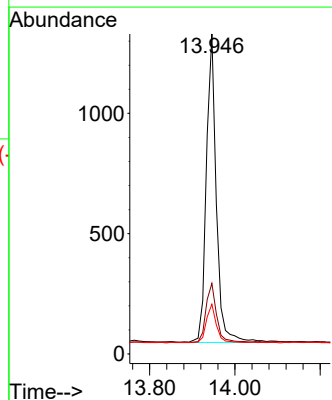
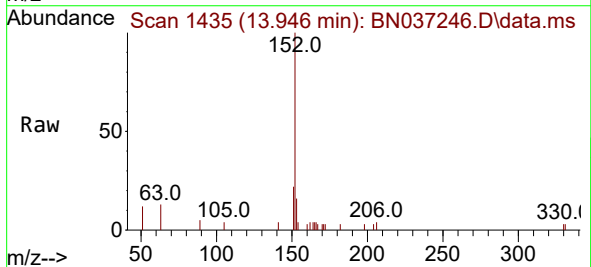
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

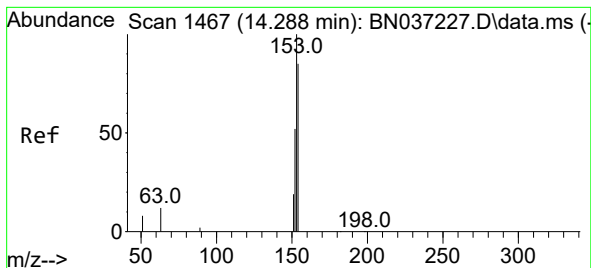
Tgt Ion:	172	Resp:	1503
Ion Ratio	Lower	Upper	
172	100		
171	39.1	29.8	44.8
170	27.2	21.1	31.7



#16
Acenaphthylene
Concen: 0.353 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:	152	Resp:	2092
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.7	23.5
153	12.4	10.7	16.1





#17

Acenaphthene

Concen: 0.320 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

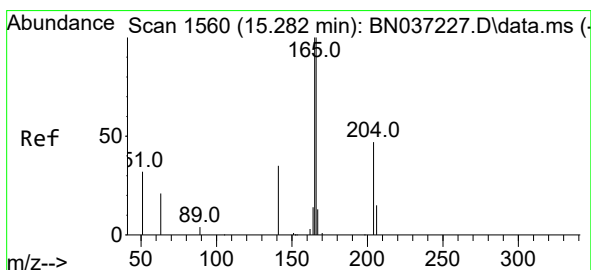
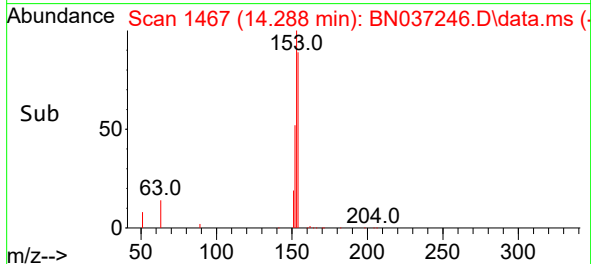
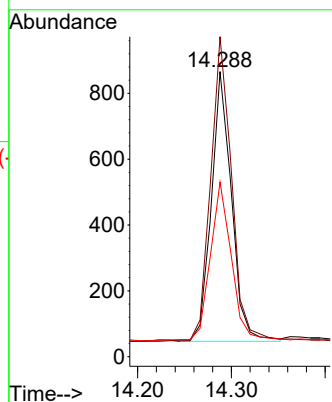
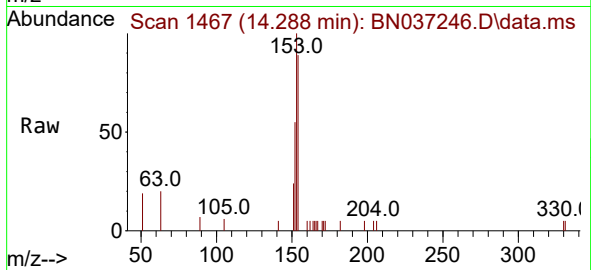
Tgt Ion:154 Resp: 1223

Ion Ratio Lower Upper

154 100

153 118.6 94.6 141.8

152 61.7 49.6 74.4



#18

Fluorene

Concen: 0.329 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

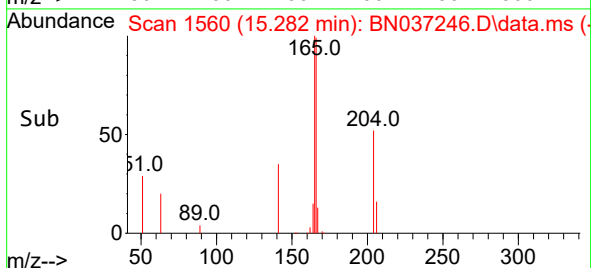
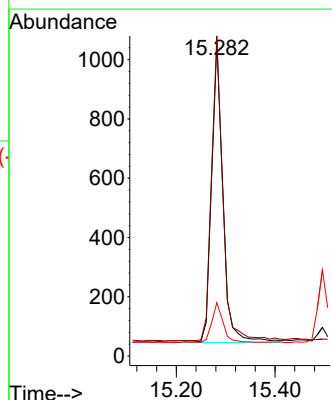
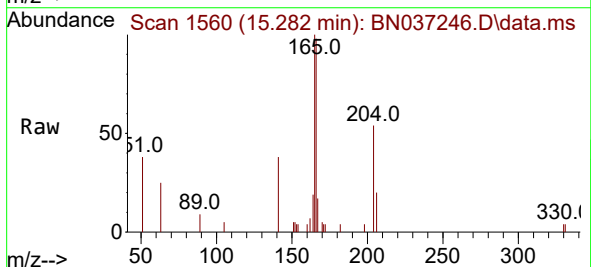
Tgt Ion:166 Resp: 1616

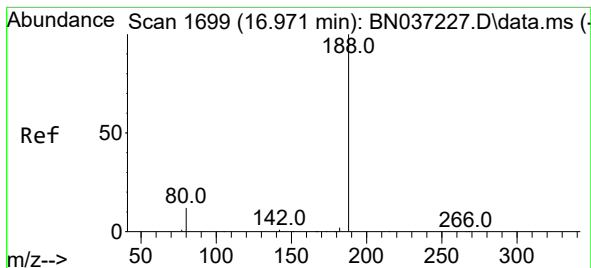
Ion Ratio Lower Upper

166 100

165 101.5 79.8 119.6

167 12.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

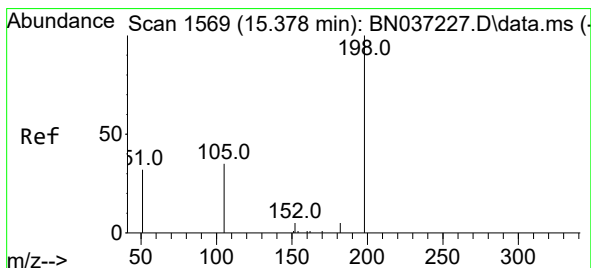
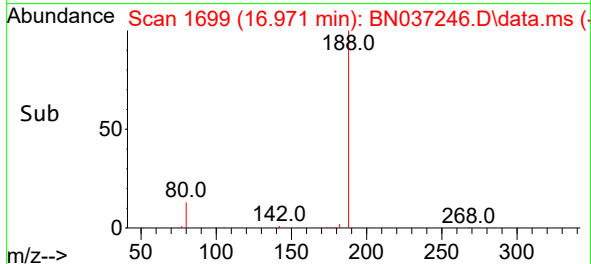
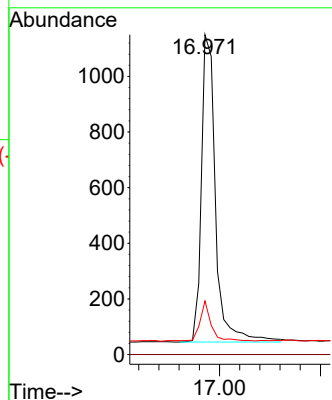
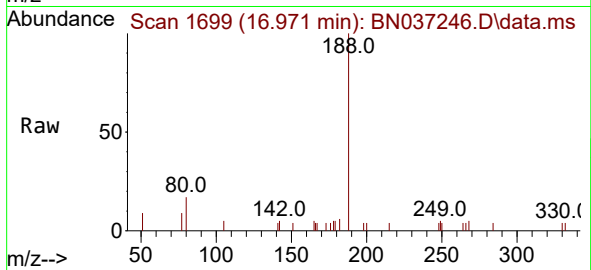
Tgt Ion:188 Resp: 2152

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.438 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

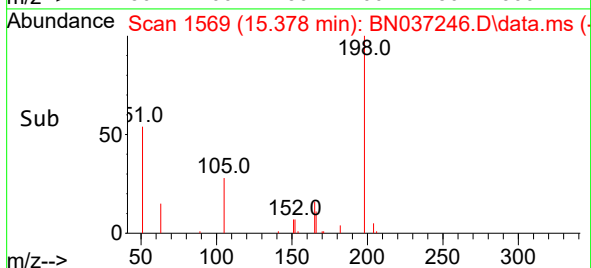
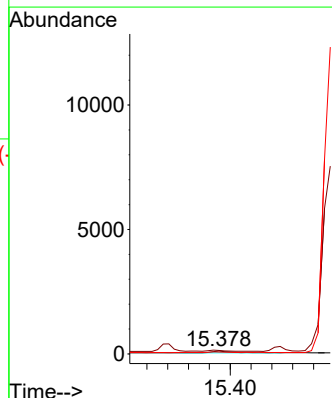
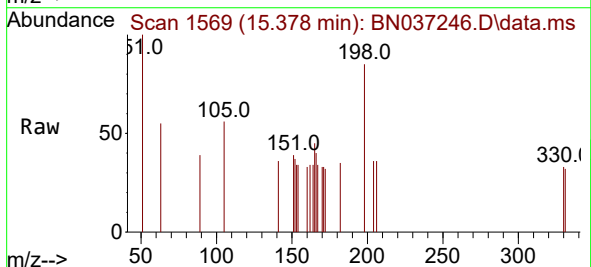
Tgt Ion:198 Resp: 182

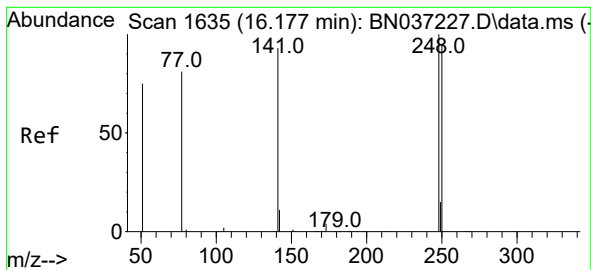
Ion Ratio Lower Upper

198 100

51 117.6 111.2 166.8

105 66.4 54.0 81.0

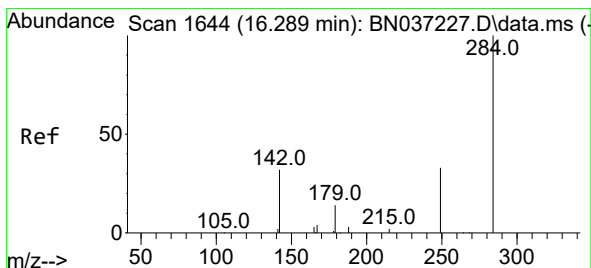
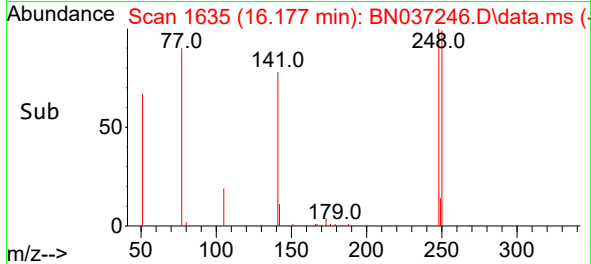
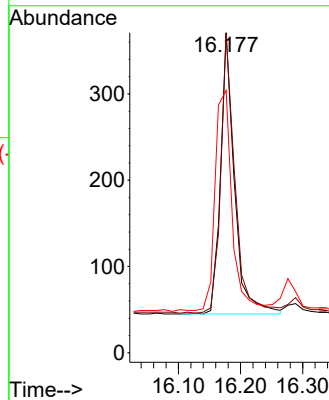
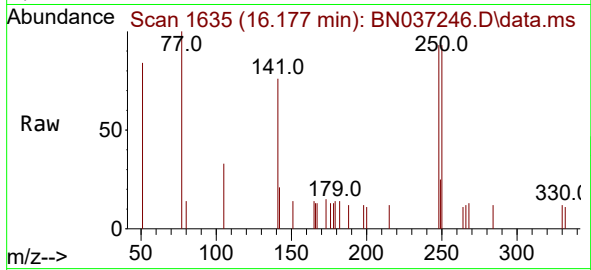




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

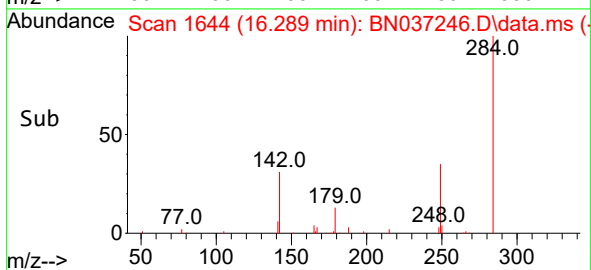
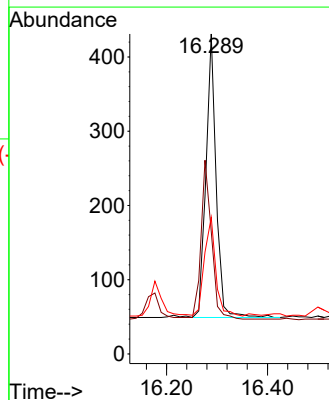
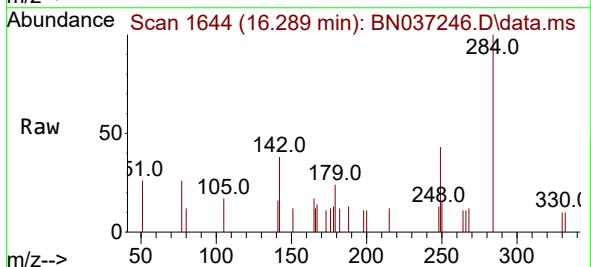
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

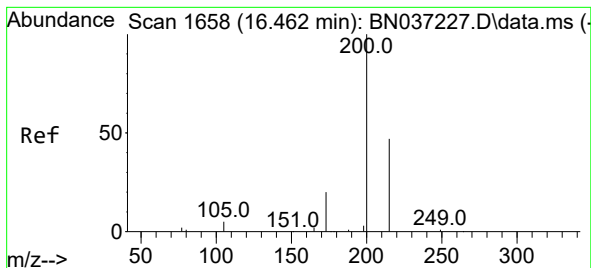
Tgt Ion:	248	Resp:	506
Ion Ratio	Lower	Upper	
248	100		
250	99.7	76.8	115.2
141	81.9	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.332 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:	284	Resp:	539
Ion Ratio	Lower	Upper	
284	100		
142	57.1	43.8	65.6
249	38.8	28.4	42.6





#23

Atrazine

Concen: 0.406 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

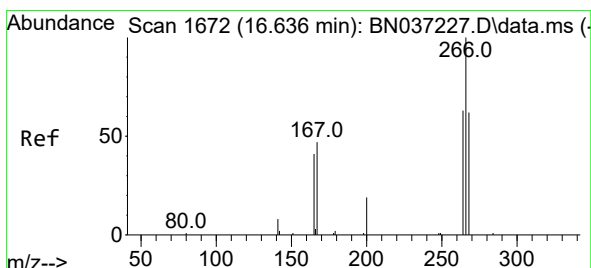
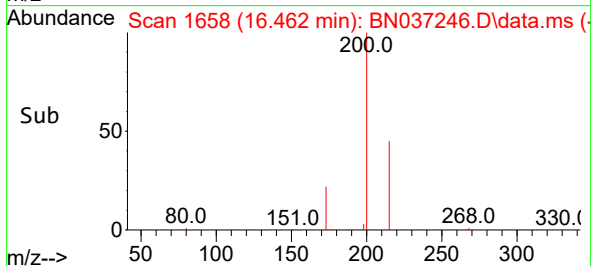
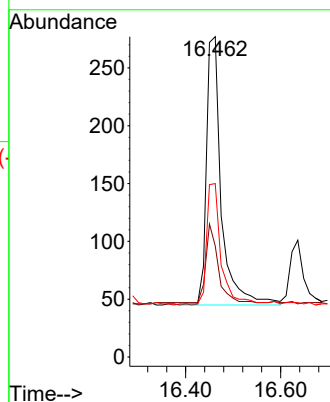
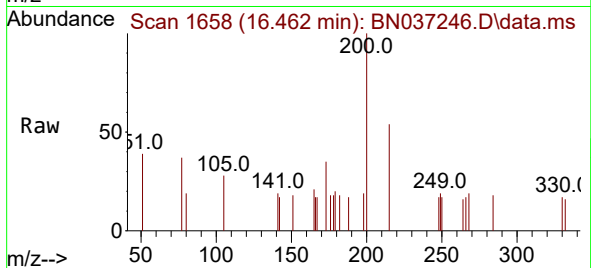
Tgt Ion:200 Resp: 508

Ion Ratio Lower Upper

200 100

173 34.7 25.1 37.7

215 54.2 43.7 65.5



#24

Pentachlorophenol

Concen: 0.698 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

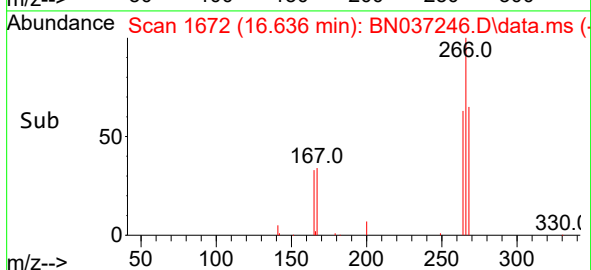
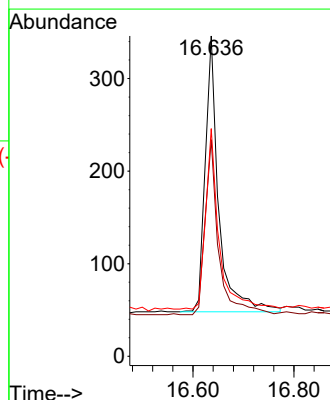
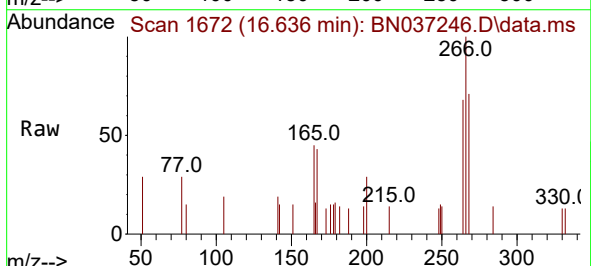
Tgt Ion:266 Resp: 556

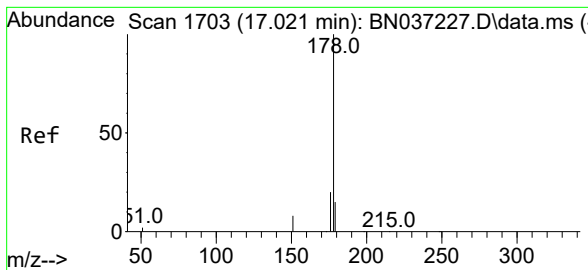
Ion Ratio Lower Upper

266 100

264 62.8 49.2 73.8

268 65.5 53.4 80.2

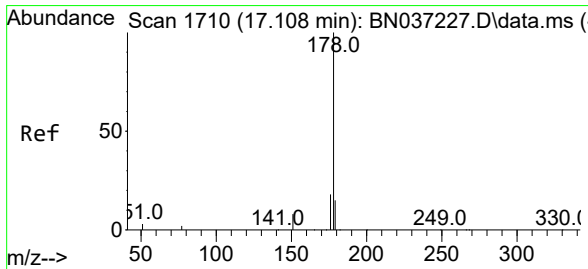
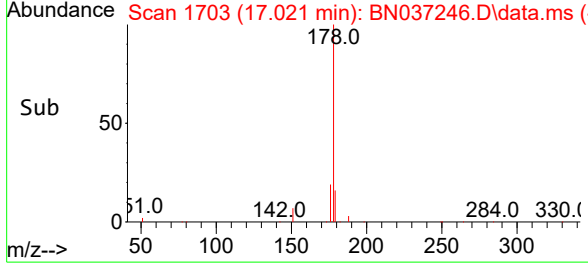
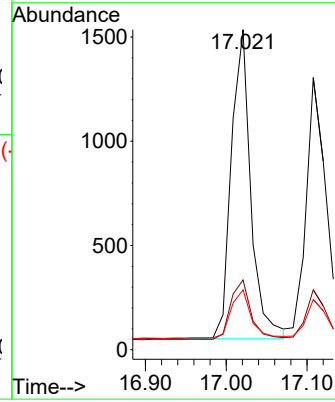
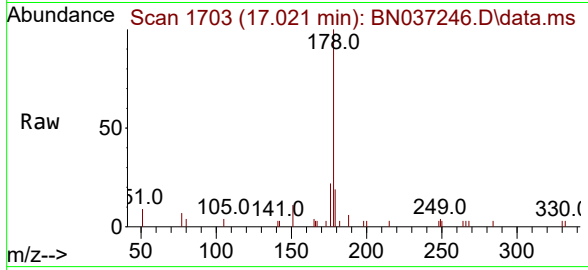




#25
 Phenanthrene
 Concen: 0.366 ng
 RT: 17.021 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: BN037246.D
 Acq: 14 Jun 2025 03:32

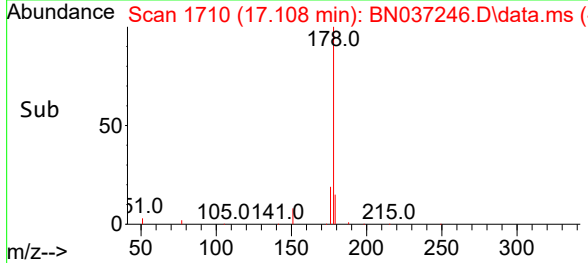
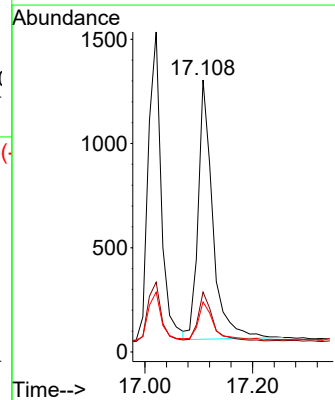
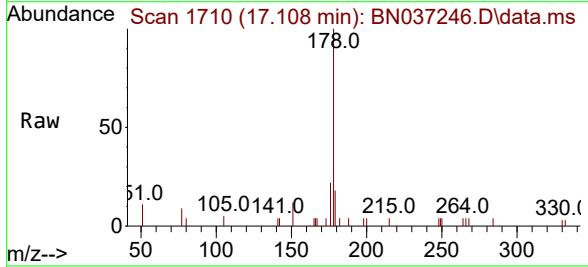
Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MS

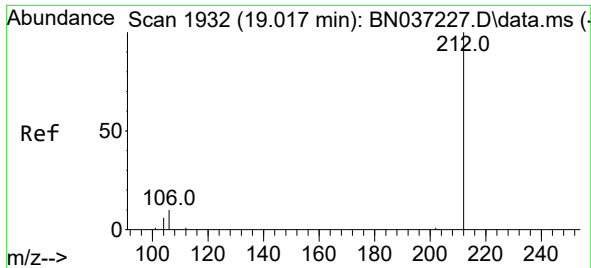
Tgt Ion:	178	Resp:	2496
Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	16.6	12.6	18.8



#26
 Anthracene
 Concen: 0.375 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037246.D
 Acq: 14 Jun 2025 03:32

Tgt Ion:	178	Resp:	2343
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.0	12.4	18.6

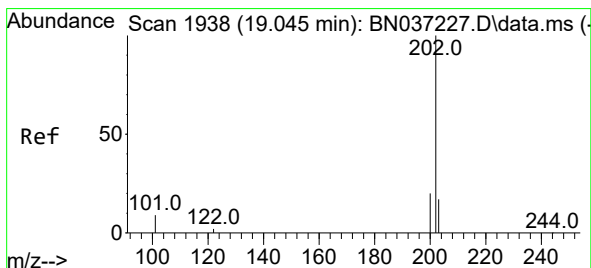
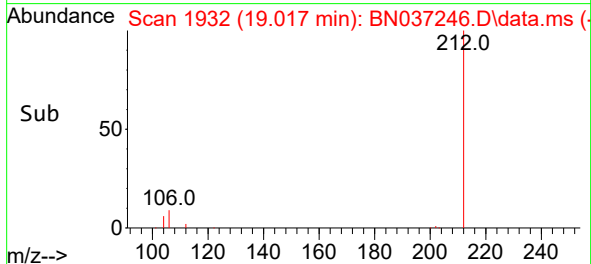
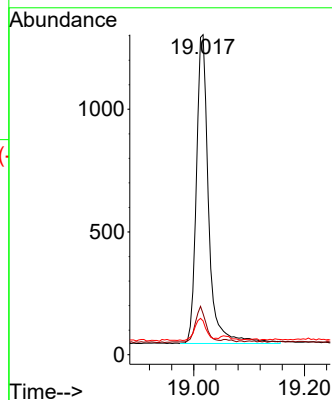
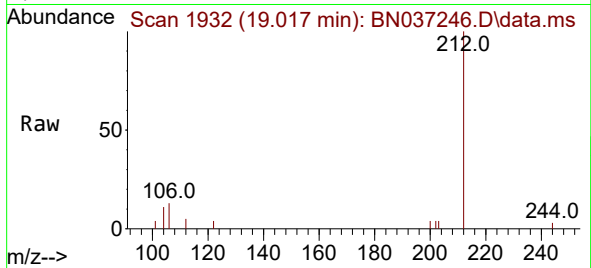




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

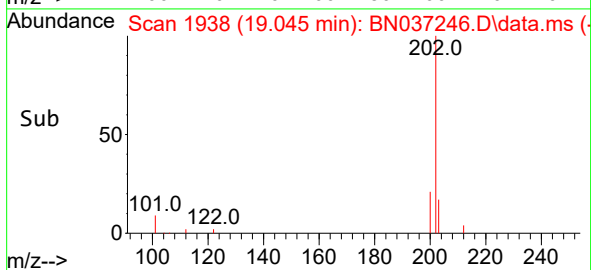
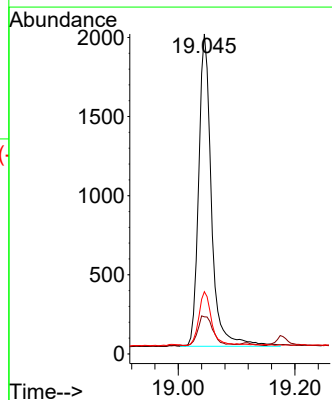
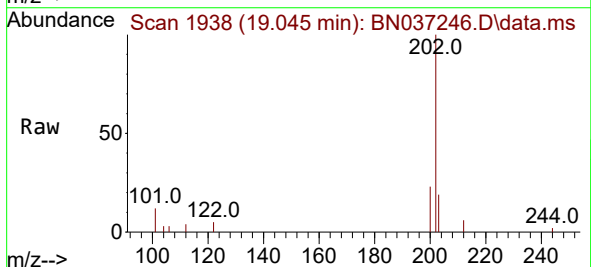
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

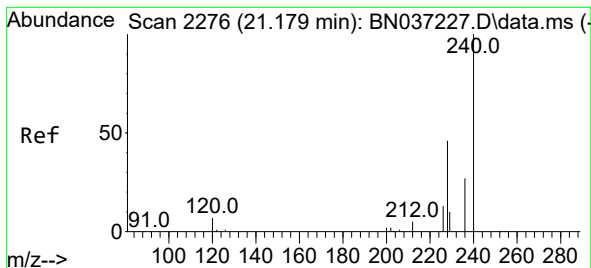
Tgt Ion:212 Resp: 1941
Ion Ratio Lower Upper
212 100
106 9.9 9.3 13.9
104 6.5 5.7 8.5



#28
Fluoranthene
Concen: 0.377 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:202 Resp: 3009
Ion Ratio Lower Upper
202 100
101 12.1 7.1 10.7#
203 17.5 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

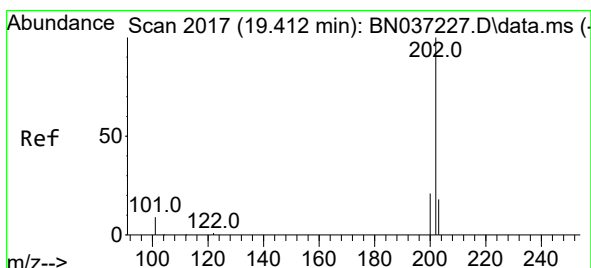
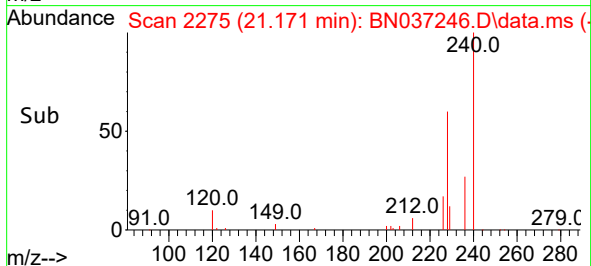
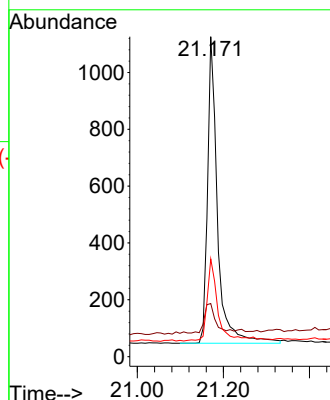
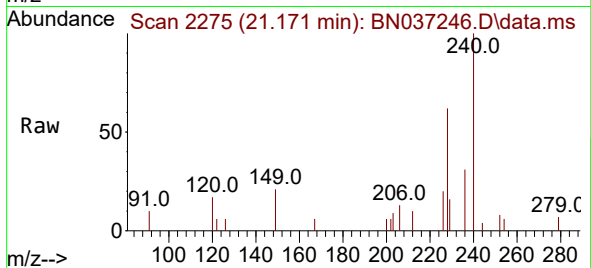
Tgt Ion:240 Resp: 1734

Ion Ratio Lower Upper

240 100

120 16.6 11.3 16.9

236 30.6 24.4 36.6



#30

Pyrene

Concen: 0.377 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

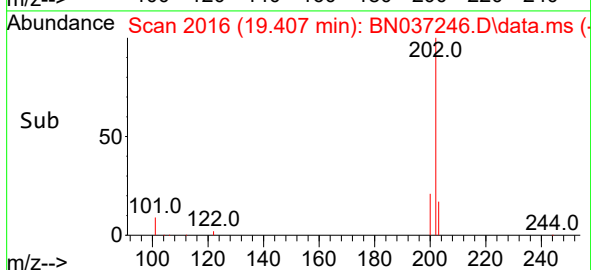
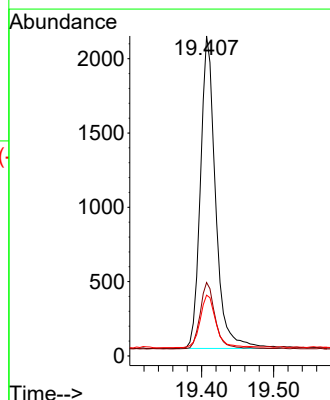
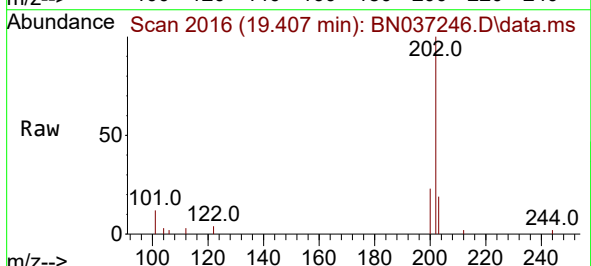
Tgt Ion:202 Resp: 3076

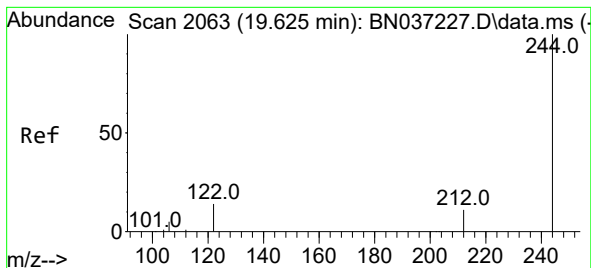
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.8 14.3 21.5





#31

Terphenyl-d14

Concen: 0.419 ng

RT: 19.621 min Scan# 2063

Delta R.T. -0.005 min

Lab File: BN037246.D

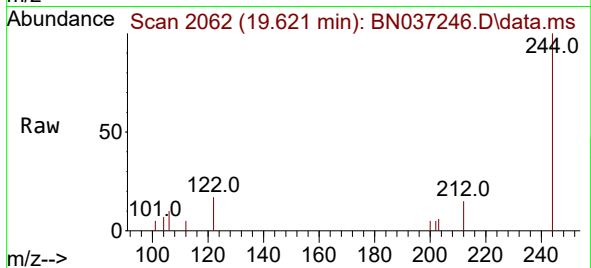
Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS



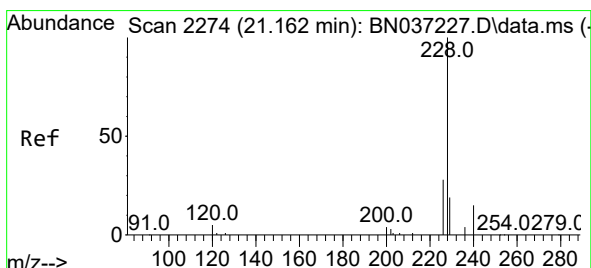
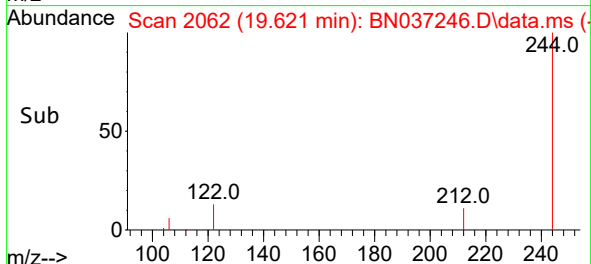
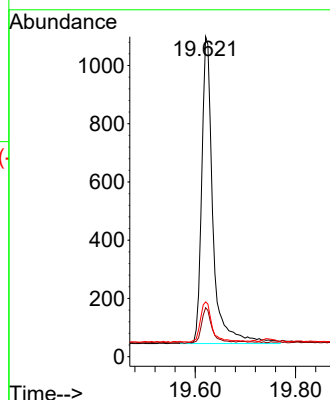
Tgt Ion:244 Resp: 1642

Ion Ratio Lower Upper

244 100

212 15.3 12.2 18.2

122 17.1 14.3 21.5



#32

Benzo(a)anthracene

Concen: 0.421 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

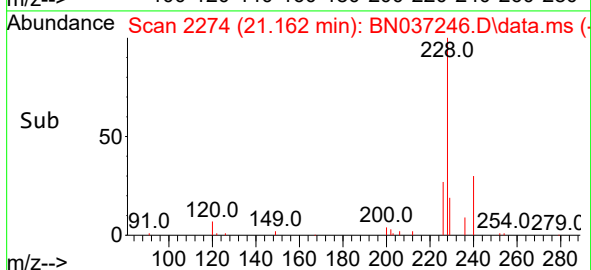
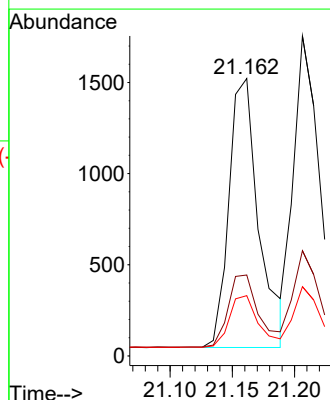
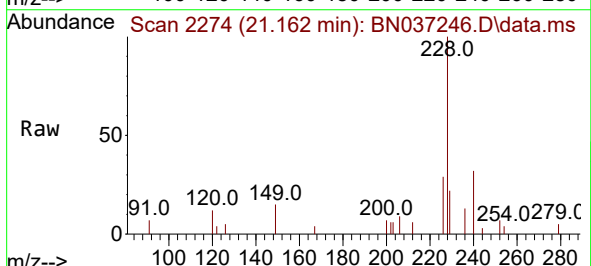
Tgt Ion:228 Resp: 2465

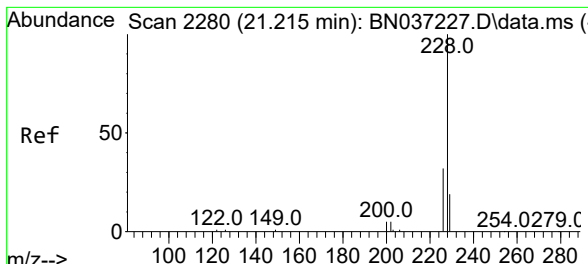
Ion Ratio Lower Upper

228 100

226 29.2 23.8 35.8

229 21.7 17.0 25.4





#33

Chrysene

Concen: 0.393 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS

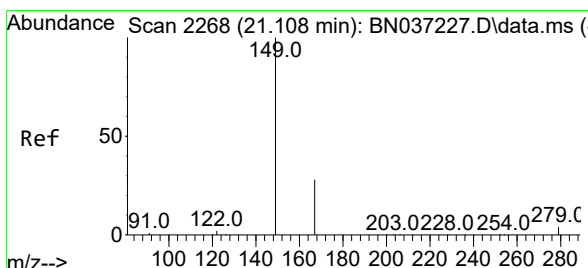
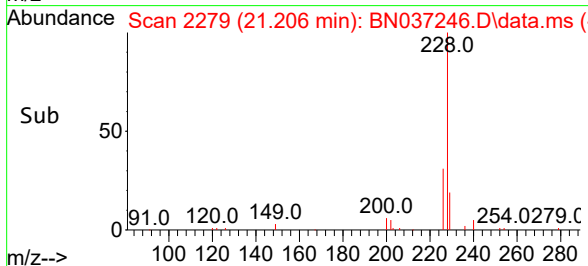
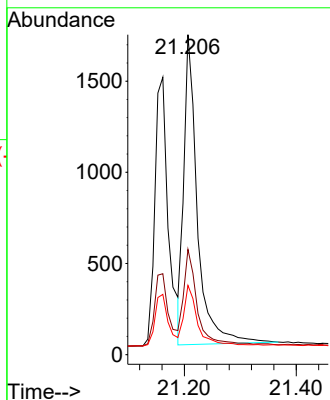
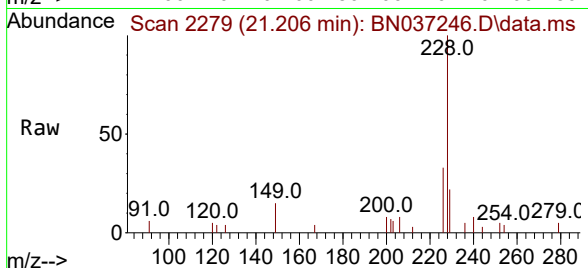
Tgt Ion:228 Resp: 2864

Ion Ratio Lower Upper

228 100

226 32.9 25.8 38.6

229 21.7 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.417 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

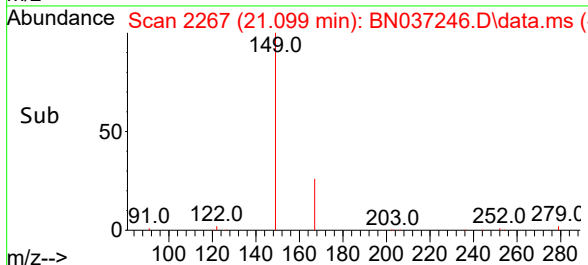
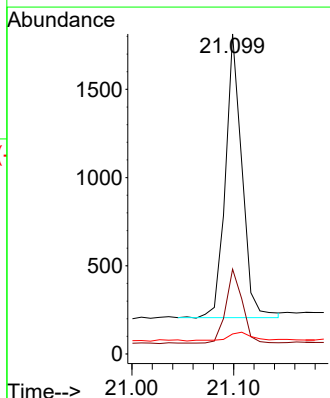
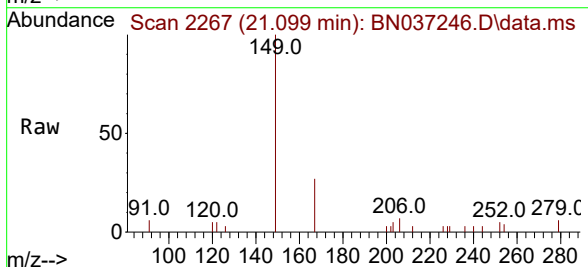
Tgt Ion:149 Resp: 1818

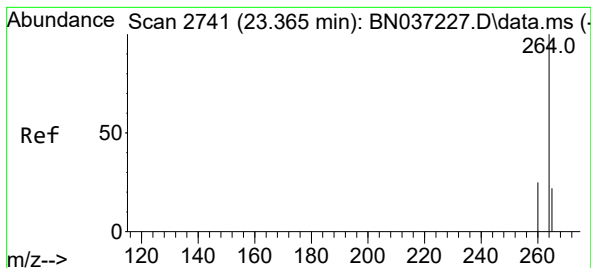
Ion Ratio Lower Upper

149 100

167 25.7 21.3 31.9

279 5.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037246.D

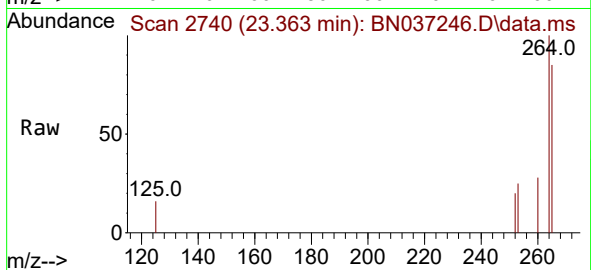
Acq: 14 Jun 2025 03:32

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MS



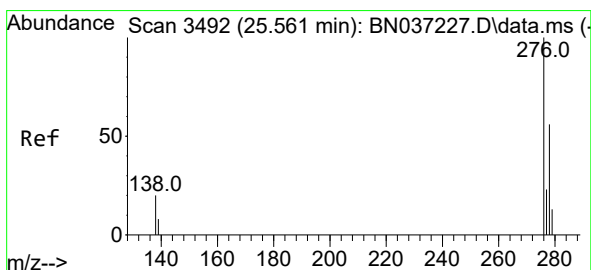
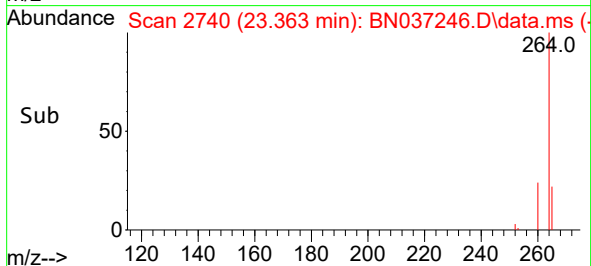
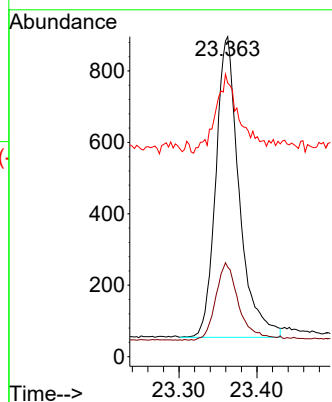
Tgt Ion:264 Resp: 1757

Ion Ratio Lower Upper

264 100

260 28.0 22.8 34.2

265 85.5 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.397 ng

RT: 25.549 min Scan# 3488

Delta R.T. -0.012 min

Lab File: BN037246.D

Acq: 14 Jun 2025 03:32

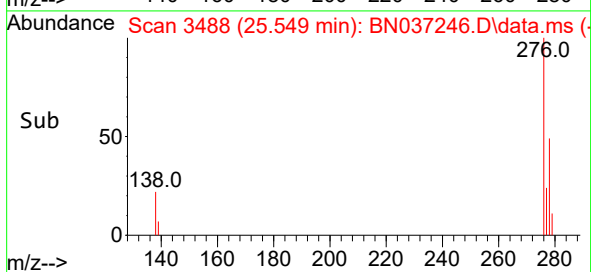
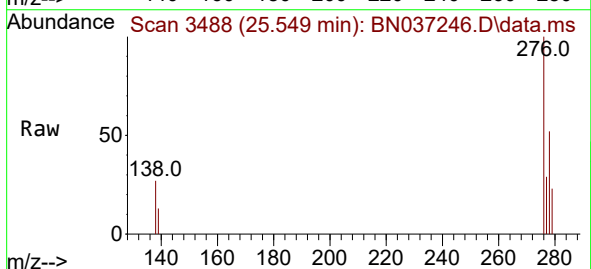
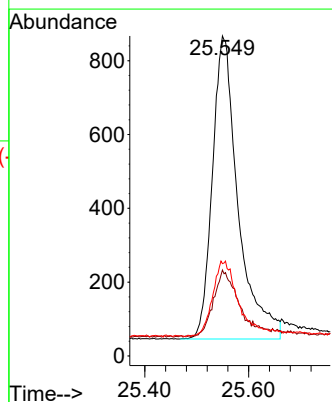
Tgt Ion:276 Resp: 2816

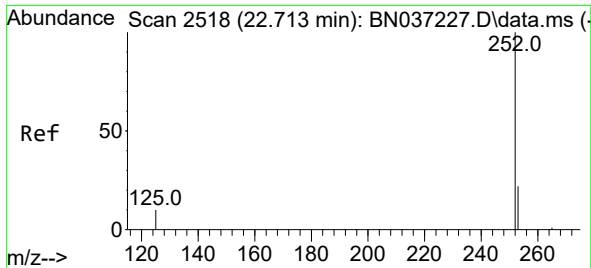
Ion Ratio Lower Upper

276 100

138 20.7 16.8 25.2

277 25.1 19.5 29.3

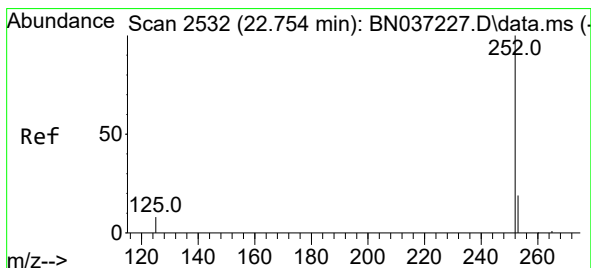
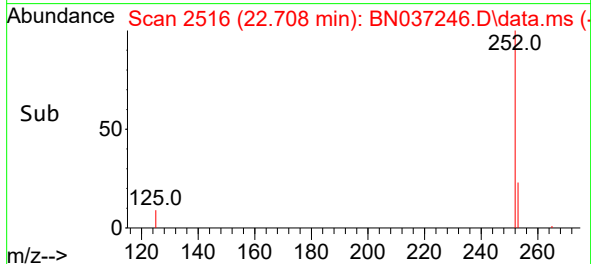
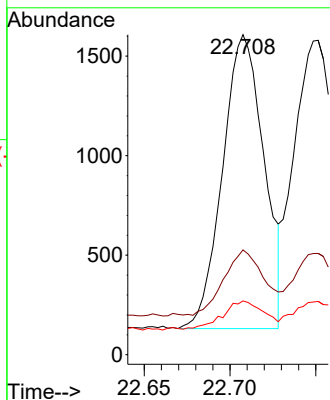
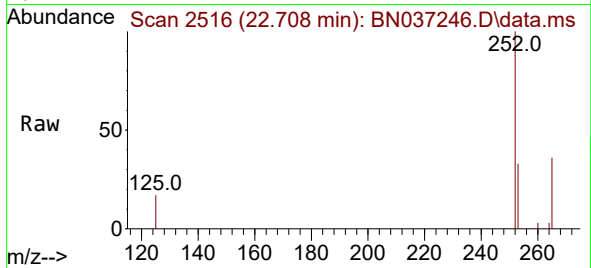




#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.708 min Scan# 2516
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

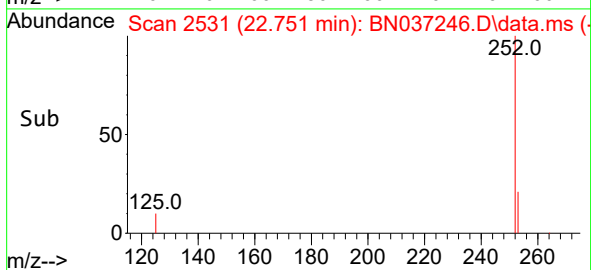
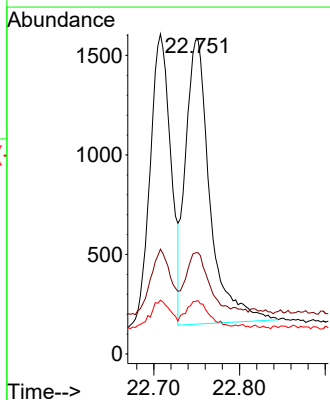
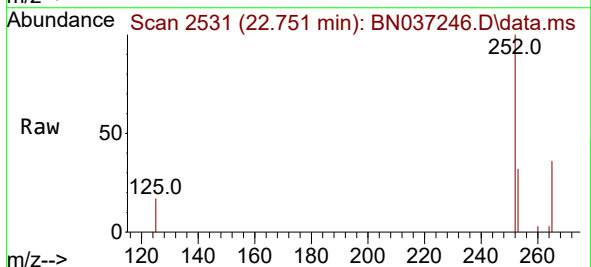
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

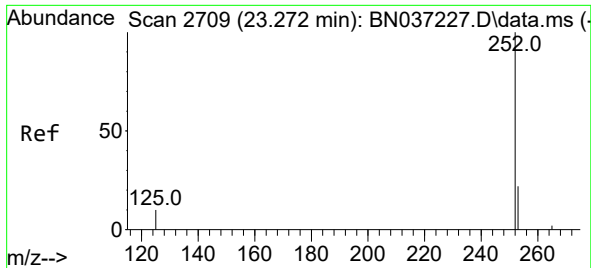
Tgt Ion:252 Resp: 2482
Ion Ratio Lower Upper
252 100
253 32.8 24.9 37.3
125 16.8 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.381 ng
RT: 22.751 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Tgt Ion:252 Resp: 2823
Ion Ratio Lower Upper
252 100
253 32.2 24.6 37.0
125 17.0 13.4 20.2

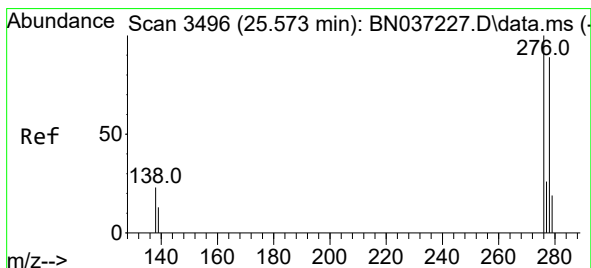
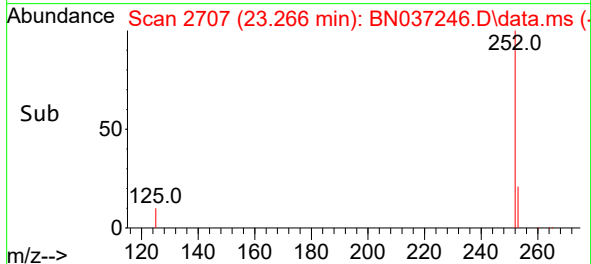
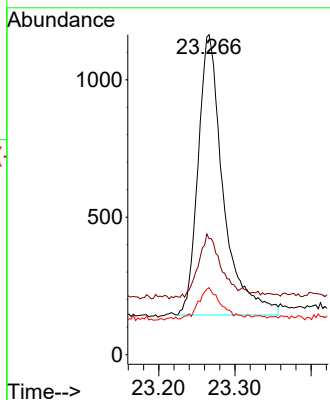
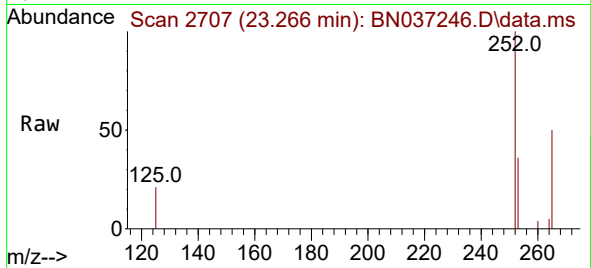




#39
Benzo(a)pyrene
Concen: 0.405 ng
RT: 23.266 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

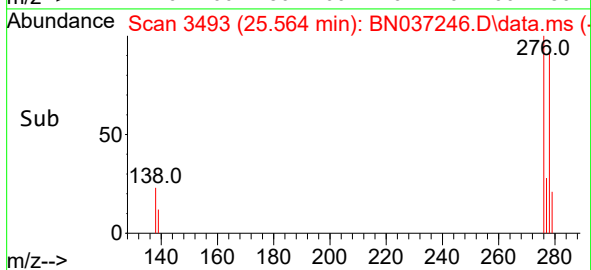
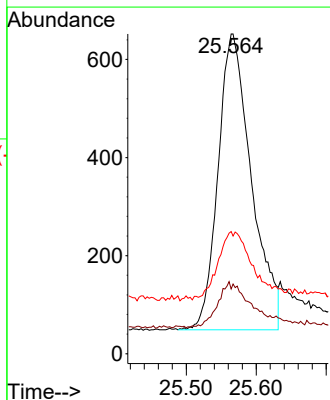
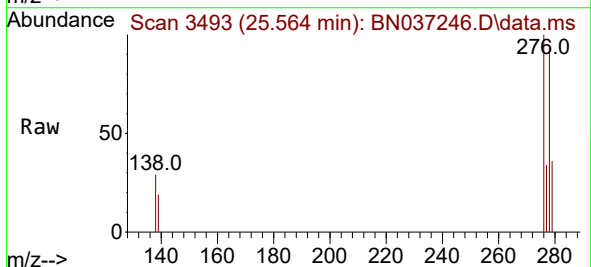
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS

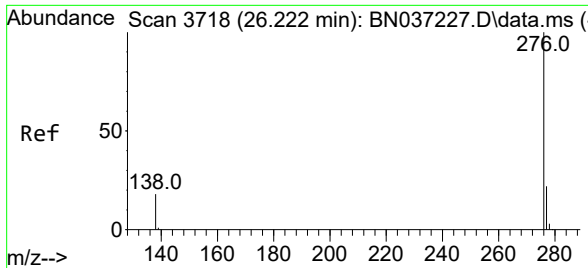
Tgt Ion:252 Resp: 2344
Ion Ratio Lower Upper
252 100
253 36.3 29.4 44.2
125 21.0 16.2 24.2



#40
Dibenzo(a,h)anthracene
Concen: 0.371 ng
RT: 25.564 min Scan# 3493
Delta R.T. -0.009 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

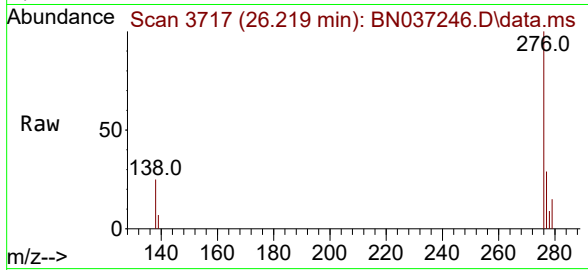
Tgt Ion:278 Resp: 2000
Ion Ratio Lower Upper
278 100
139 20.2 17.8 26.6
279 38.2 31.3 46.9





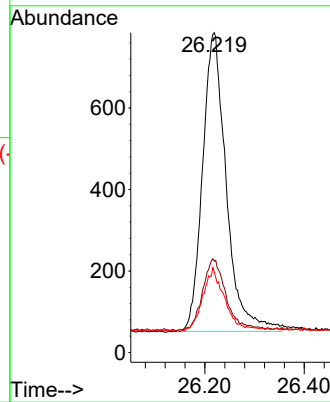
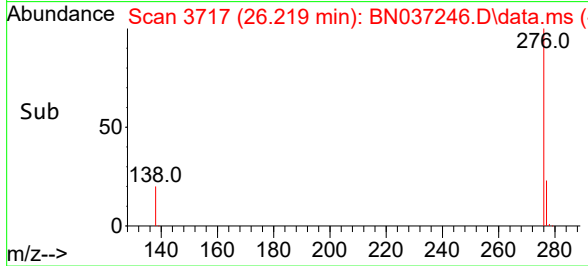
#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 26.219 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN037246.D
Acq: 14 Jun 2025 03:32

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MS



Tgt Ion: 276 Resp: 2427

Ion	Ratio	Lower	Upper
276	100		
277	28.5	22.0	33.0
138	25.1	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037247.D
 Acq On : 14 Jun 2025 04:08
 Operator : RC/JU
 Sample : Q2299-04MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MSD

Quant Time: Jun 14 05:09:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

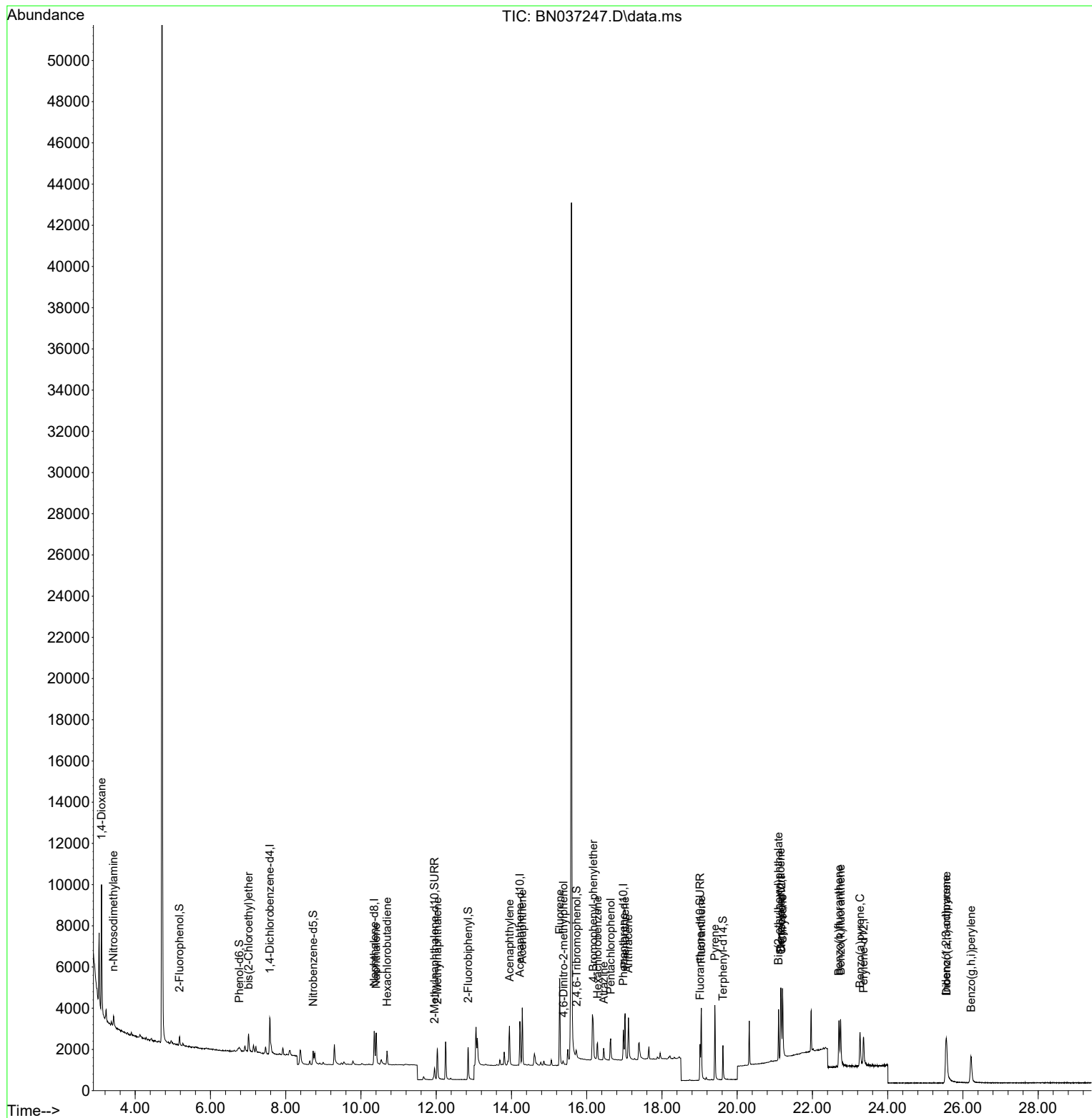
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	888	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2241	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1184	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2199	0.400	ng	0.00
29) Chrysene-d12	21.170	240	1956	0.400	ng	0.00
35) Perylene-d12	23.357	264	1969	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	288	0.132	ng	0.00
5) Phenol-d6	6.766	99	162	0.070	ng	0.00
8) Nitrobenzene-d5	8.728	82	616	0.278	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1075	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	182	0.370	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1504	0.302	ng	0.00
27) Fluoranthene-d10	19.012	212	2166	0.376	ng	0.00
31) Terphenyl-d14	19.621	244	1884	0.426	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	2832	2.325	ng	# 87
3) n-Nitrosodimethylamine	3.422	42	510	0.184	ng	# 96
6) bis(2-Chloroethyl)ether	7.011	93	668	0.324	ng	98
9) Naphthalene	10.404	128	2101	0.324	ng	97
10) Hexachlorobutadiene	10.692	225	485	0.307	ng	# 95
12) 2-Methylnaphthalene	12.031	142	1206	0.306	ng	98
16) Acenaphthylene	13.946	152	2106	0.363	ng	99
17) Acenaphthene	14.288	154	1244	0.332	ng	98
18) Fluorene	15.282	166	1681	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	206	0.473	ng	86
21) 4-Bromophenyl-phenylether	16.177	248	538	0.375	ng	89
22) Hexachlorobenzene	16.288	284	573	0.345	ng	93
23) Atrazine	16.450	200	567	0.444	ng	92
24) Pentachlorophenol	16.636	266	614	0.754	ng	97
25) Phenanthrene	17.021	178	2705	0.388	ng	99
26) Anthracene	17.108	178	2547	0.399	ng	98
28) Fluoranthene	19.045	202	3333	0.408	ng	# 95
30) Pyrene	19.407	202	3474	0.378	ng	99
32) Benzo(a)anthracene	21.153	228	2751	0.417	ng	99
33) Chrysene	21.206	228	3522	0.428	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2078	0.422	ng	99
36) Indeno(1,2,3-cd)pyrene	25.549	276	3380	0.426	ng	99
37) Benzo(b)fluoranthene	22.705	252	3013	0.418	ng	99
38) Benzo(k)fluoranthene	22.749	252	3339	0.402	ng	98
39) Benzo(a)pyrene	23.266	252	2791	0.431	ng	96
40) Dibenzo(a,h)anthracene	25.564	278	2637	0.437	ng	95
41) Benzo(g,h,i)perylene	26.216	276	2894	0.393	ng	99

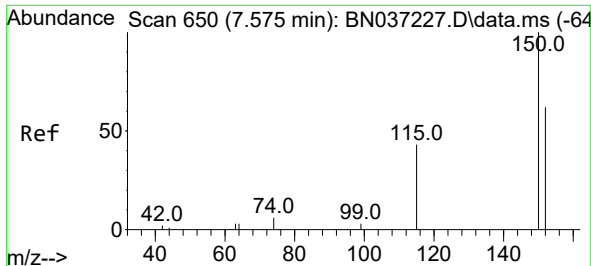
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037247.D
Acq On : 14 Jun 2025 04:08
Operator : RC/JU
Sample : Q2299-04MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

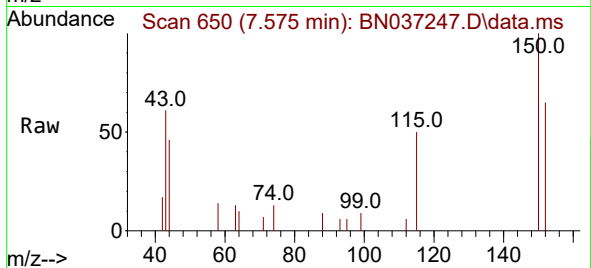
Quant Time: Jun 14 05:09:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



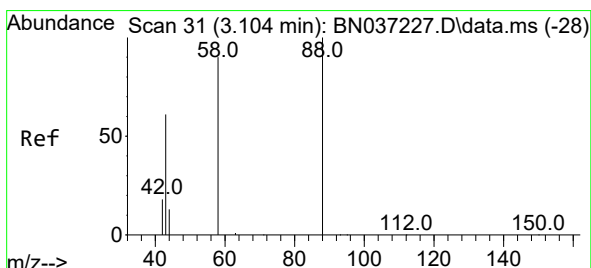
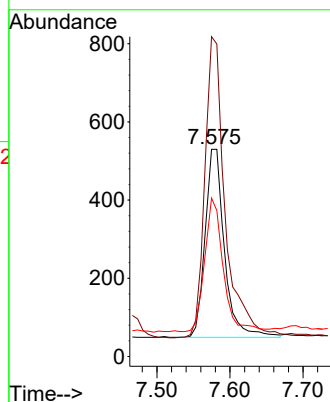
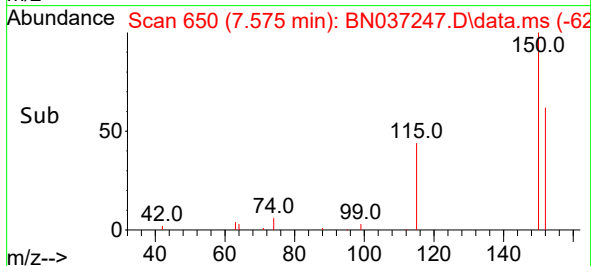


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037247.D
 Acq: 14 Jun 2025 04:08

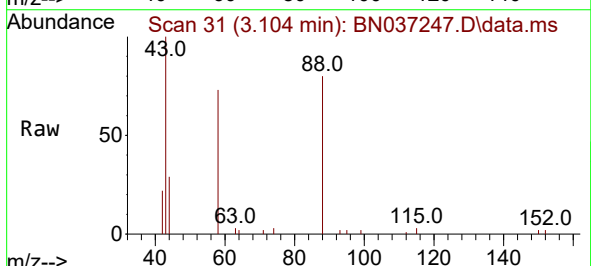
Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MSD



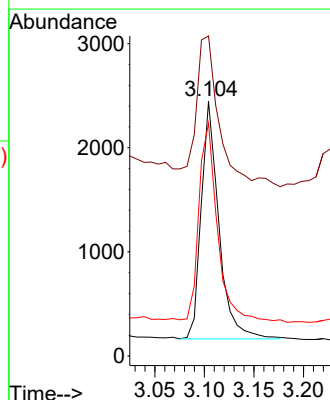
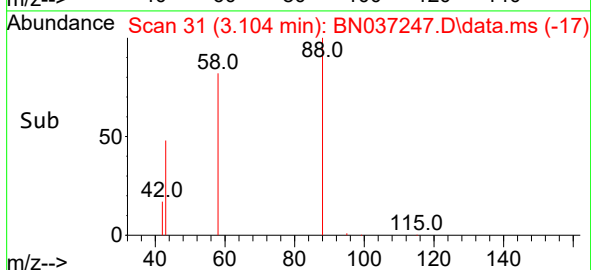
Tgt Ion:152 Resp: 888
 Ion Ratio Lower Upper
 152 100
 150 154.3 125.2 187.8
 115 76.4 58.4 87.6

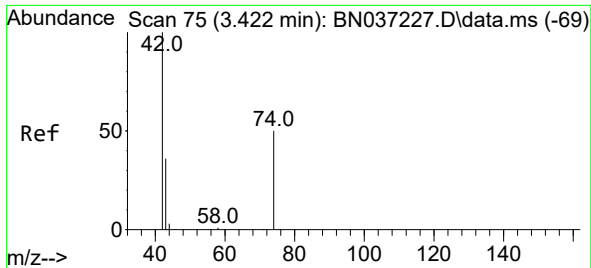


#2
 1,4-Dioxane
 Concen: 2.325 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037247.D
 Acq: 14 Jun 2025 04:08



Tgt Ion: 88 Resp: 2832
 Ion Ratio Lower Upper
 88 100
 43 83.5 52.6 79.0#
 58 85.5 73.5 110.3

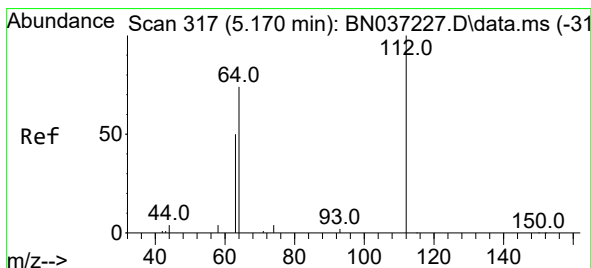
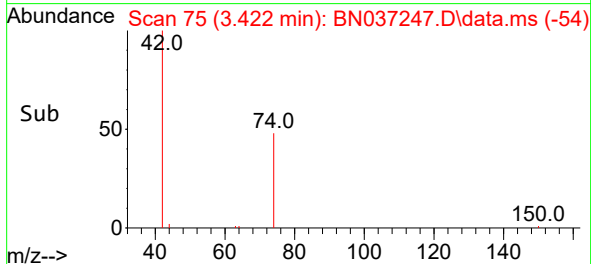
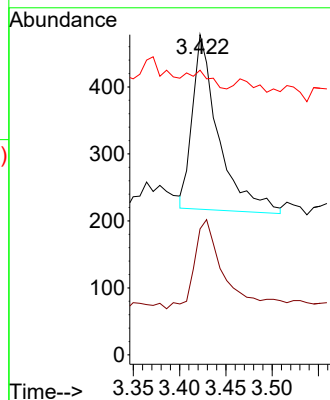
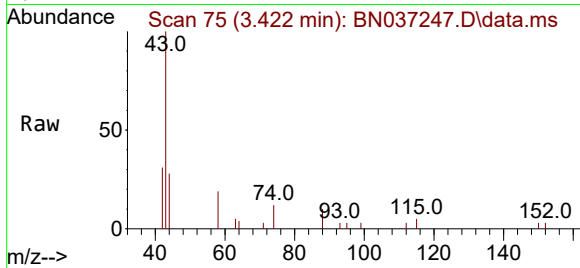




#3
n-Nitrosodimethylamine
Concen: 0.184 ng
RT: 3.422 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

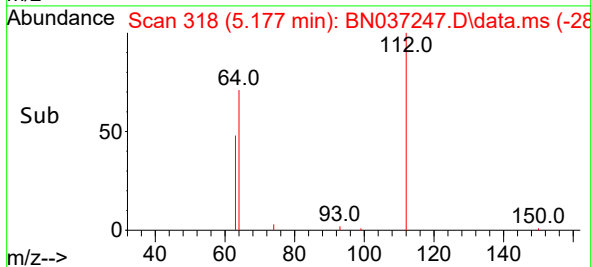
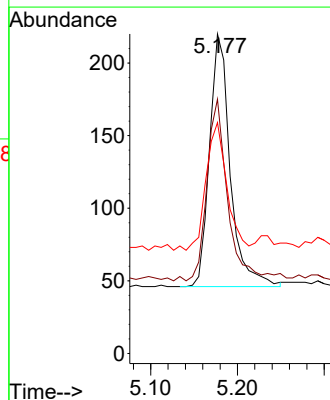
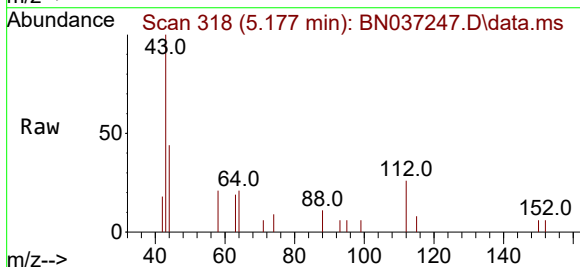
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

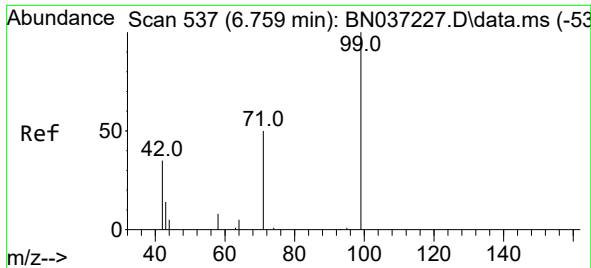
Tgt Ion: 42 Resp: 510
Ion Ratio Lower Upper
42 100
74 58.2 44.6 66.8
44 0.0 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.132 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 112 Resp: 288
Ion Ratio Lower Upper
112 100
64 73.3 57.2 85.8
63 50.7 39.8 59.6

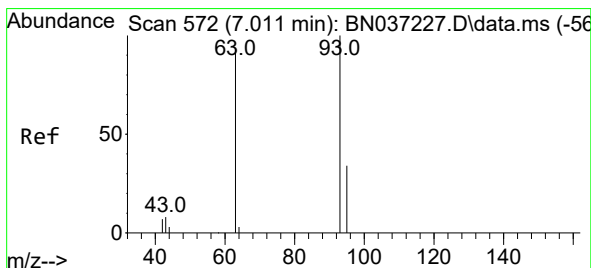
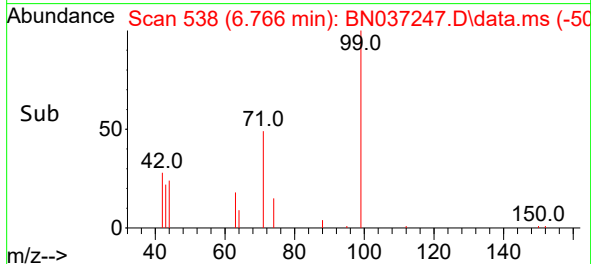
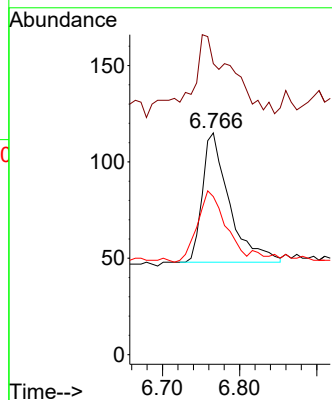
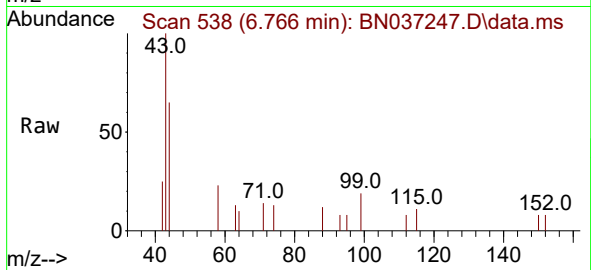




#5
Phenol-d6
Concen: 0.070 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

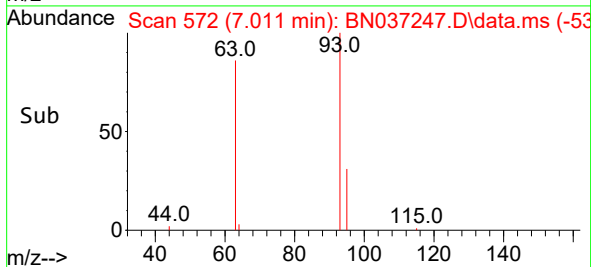
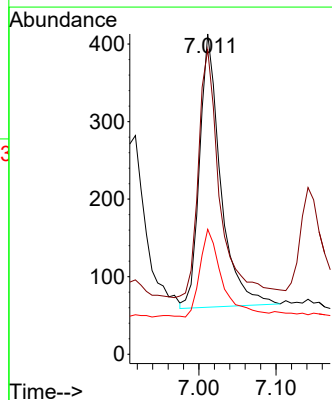
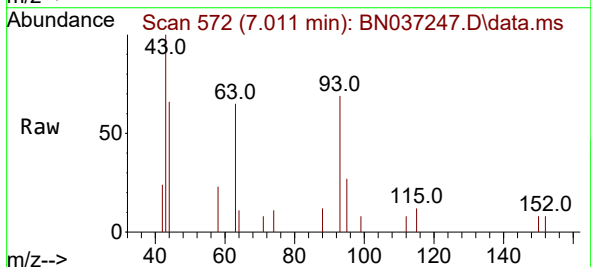
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

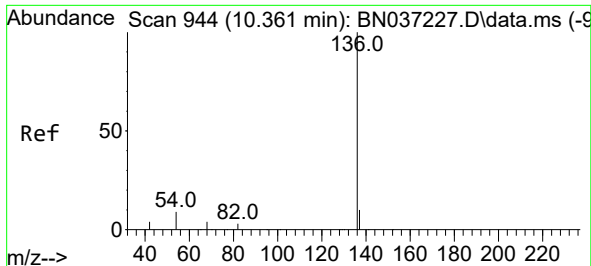
Tgt Ion: 99 Resp: 162
Ion Ratio Lower Upper
99 100
42 62.3 36.2 54.4#
71 58.0 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.324 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion: 93 Resp: 668
Ion Ratio Lower Upper
93 100
63 93.1 75.2 112.8
95 33.1 28.3 42.5

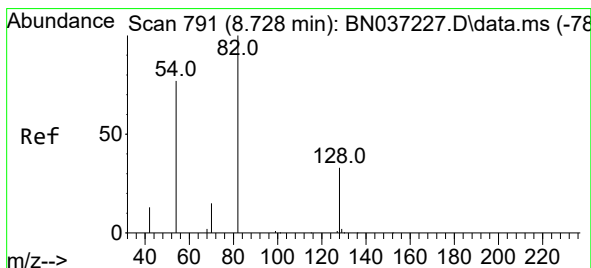
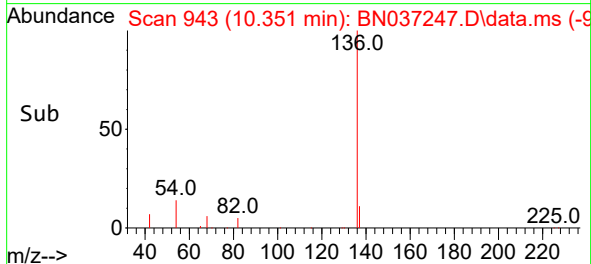
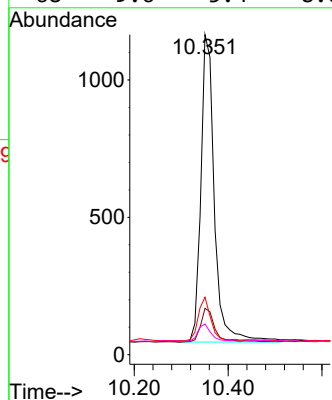
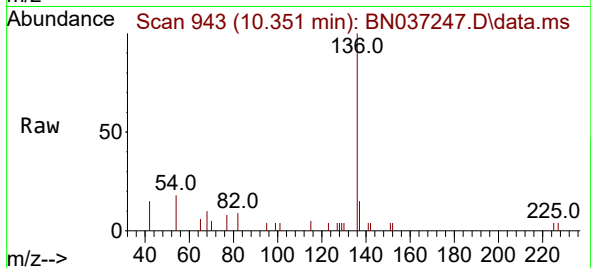




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

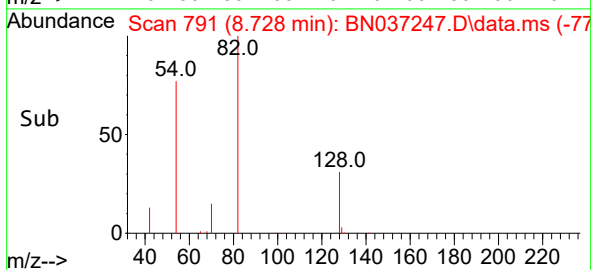
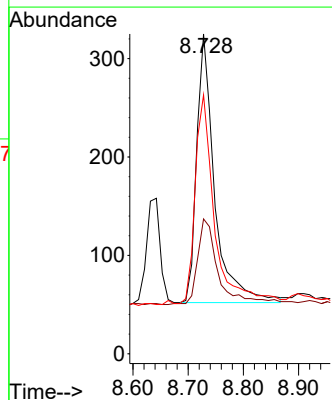
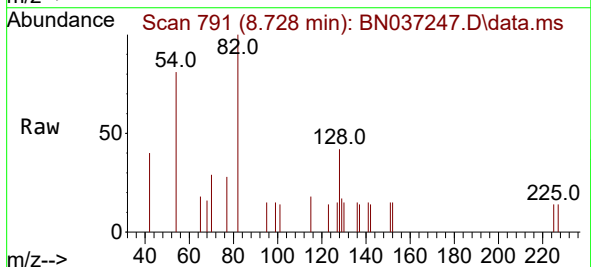
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

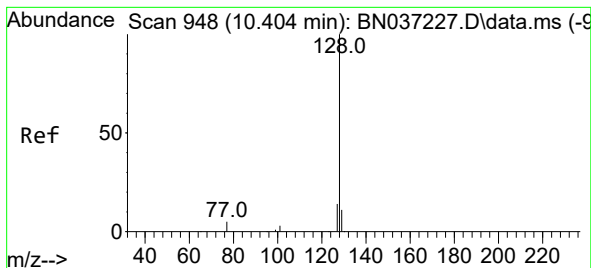
Tgt Ion:	136	Resp:	2241
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	17.9	9.2	13.8#
68	9.6	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:	82	Resp:	616
Ion	Ratio	Lower	Upper
82	100		
128	42.2	31.2	46.8
54	80.9	63.3	94.9





#9

Naphthalene

Concen: 0.324 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

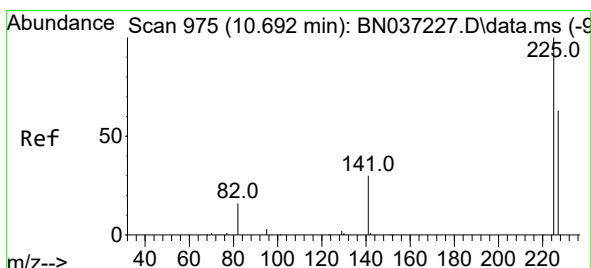
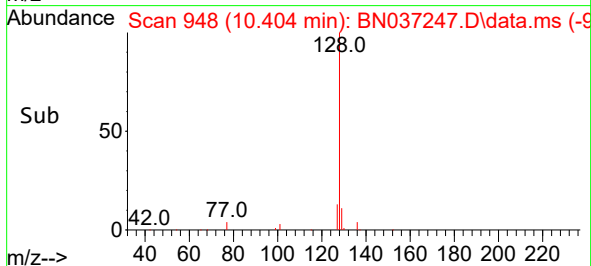
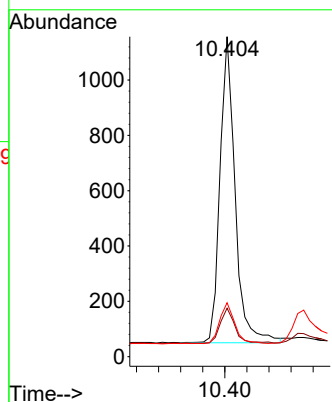
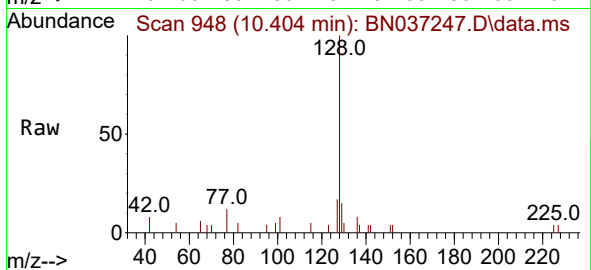
Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

Tgt Ion:	128	Resp:	2101
Ion	Ratio	Lower	Upper
128	100		
129	15.1	10.7	16.1
127	16.9	12.6	19.0



#10

Hexachlorobutadiene

Concen: 0.307 ng

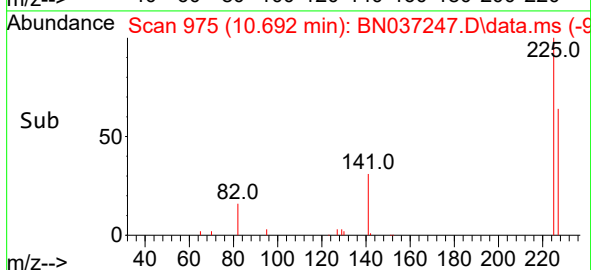
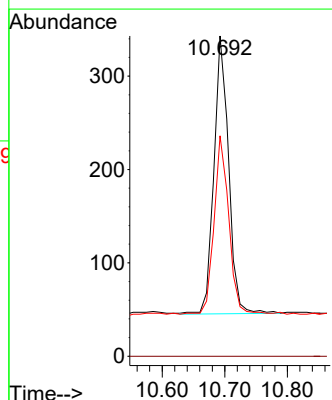
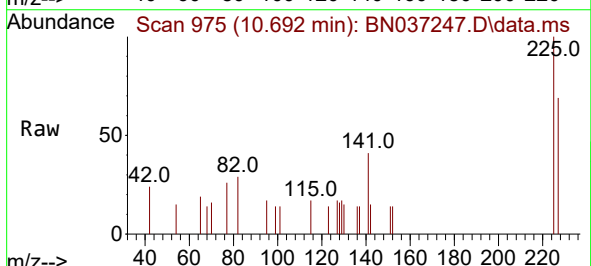
RT: 10.692 min Scan# 975

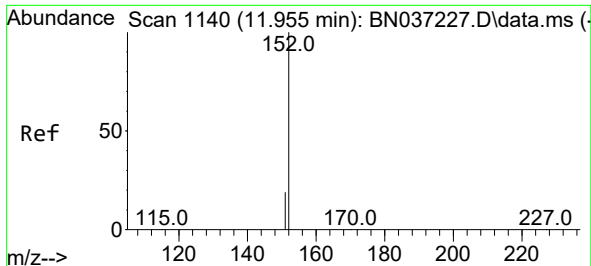
Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Tgt Ion:	225	Resp:	485
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	49.2	73.8

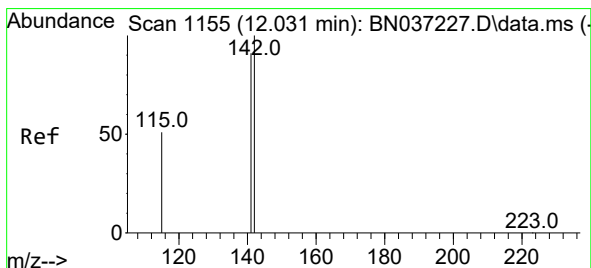
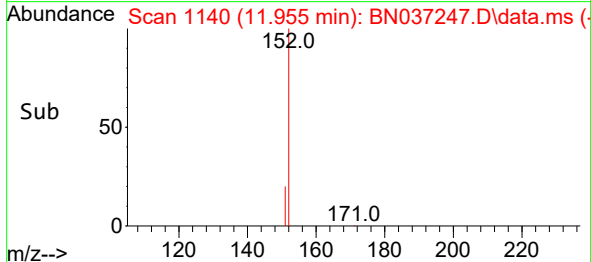
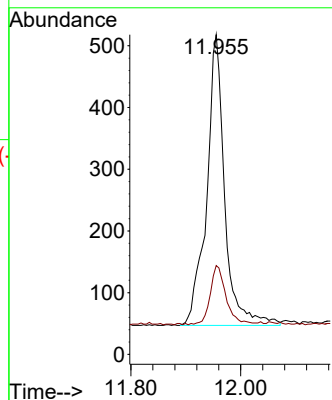
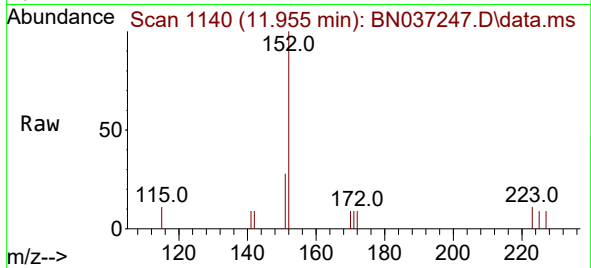




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 11.955 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

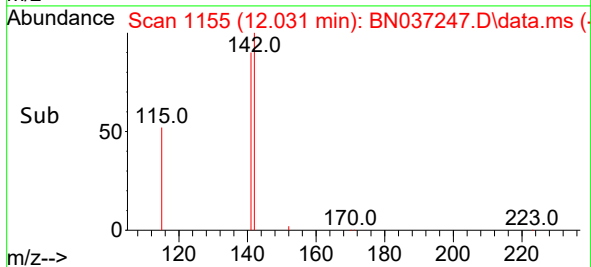
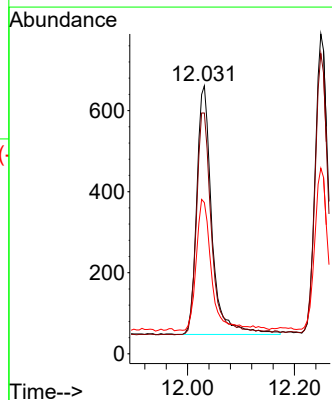
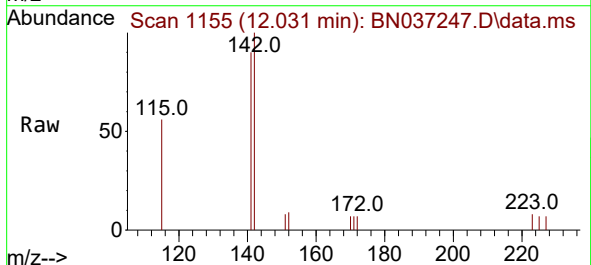
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

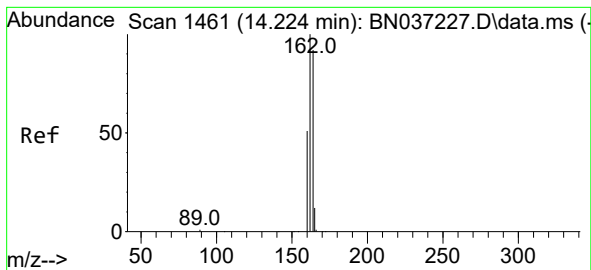
Tgt Ion:152 Resp: 1075
Ion Ratio Lower Upper
152 100
151 18.0 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.306 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:142 Resp: 1206
Ion Ratio Lower Upper
142 100
141 89.9 73.0 109.6
115 56.4 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

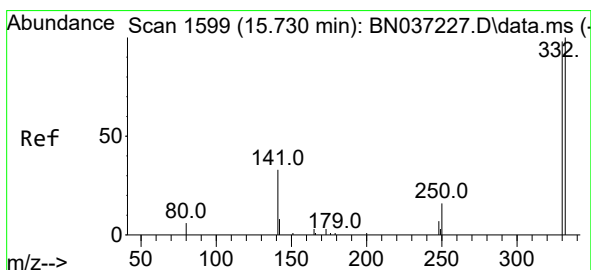
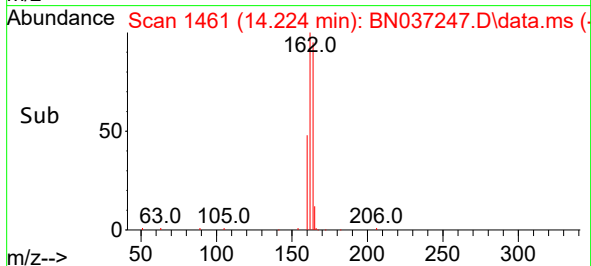
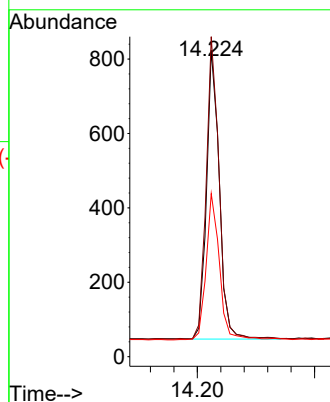
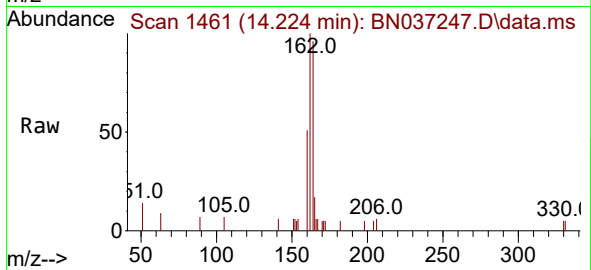
Tgt Ion:164 Resp: 1184

Ion Ratio Lower Upper

164 100

162 104.5 86.7 130.1

160 53.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.370 ng

RT: 15.730 min Scan# 1599

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

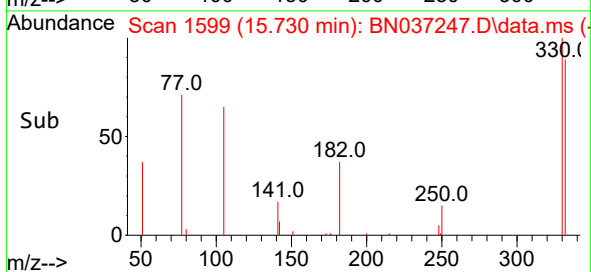
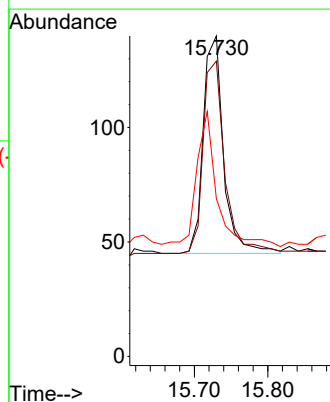
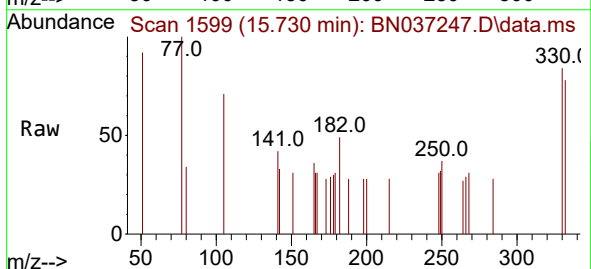
Tgt Ion:330 Resp: 182

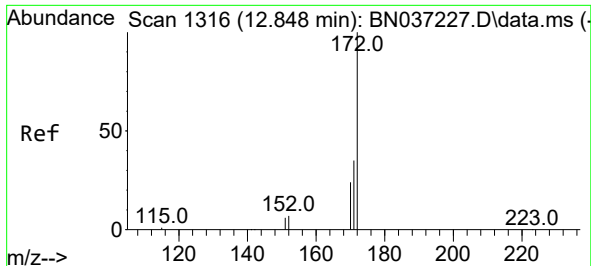
Ion Ratio Lower Upper

330 100

332 96.7 74.9 112.3

141 62.6 45.1 67.7

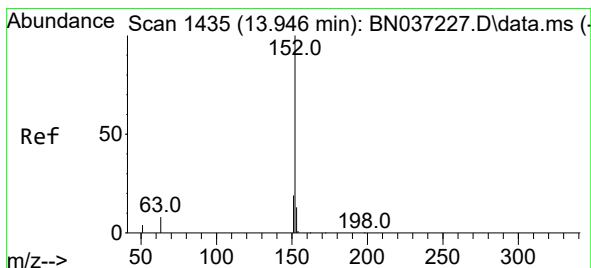
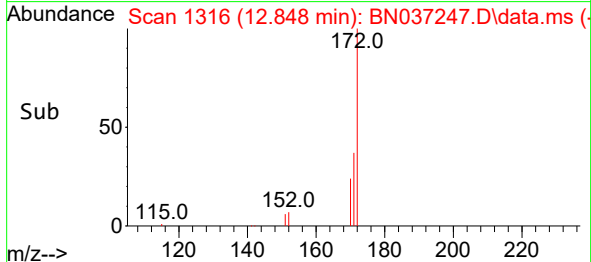
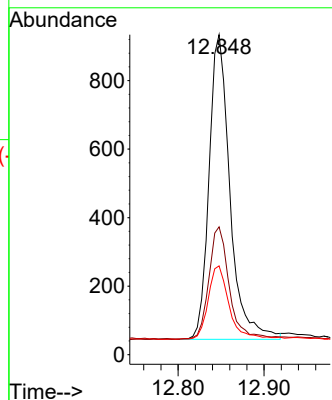
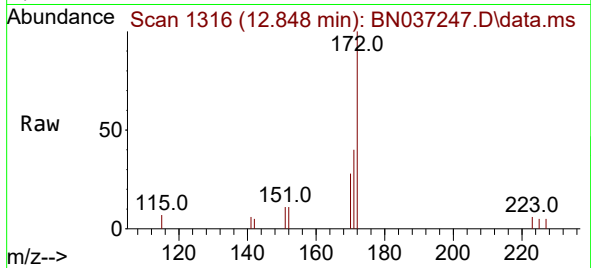




#15
2-Fluorobiphenyl
Concen: 0.302 ng
RT: 12.848 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

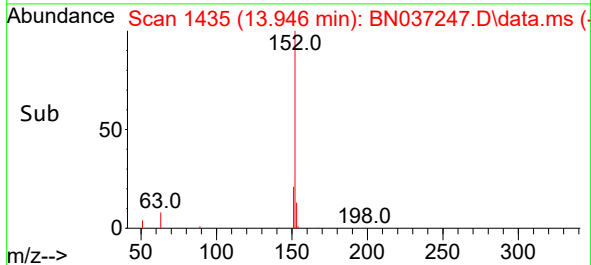
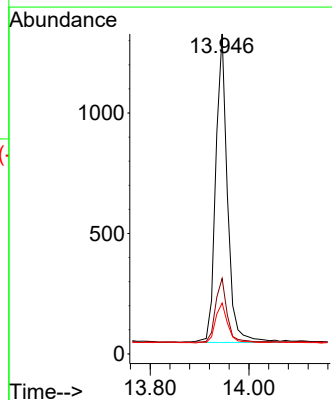
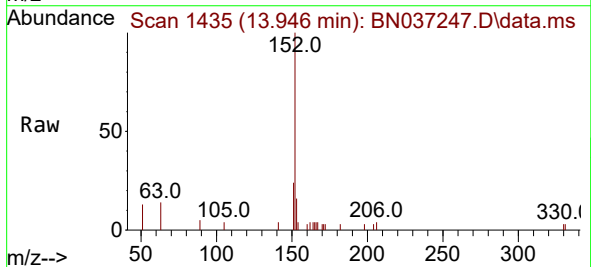
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

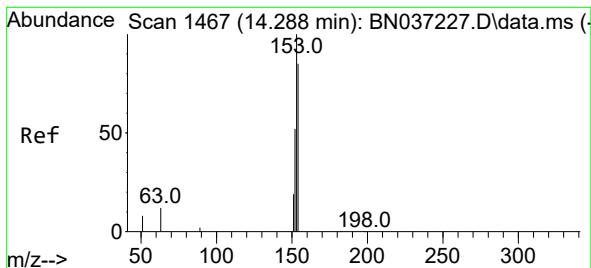
Tgt Ion:172	Resp:	1504
Ion	Ratio	Lower Upper
172	100	
171	39.9	29.8 44.8
170	27.7	21.1 31.7



#16
Acenaphthylene
Concen: 0.363 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:152	Resp:	2106
Ion	Ratio	Lower Upper
152	100	
151	20.0	15.7 23.5
153	13.6	10.7 16.1





#17

Acenaphthene

Concen: 0.332 ng

RT: 14.288 min Scan# 1467

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

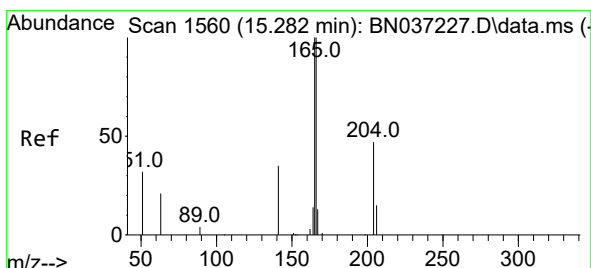
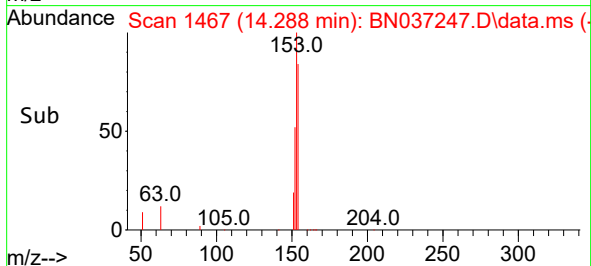
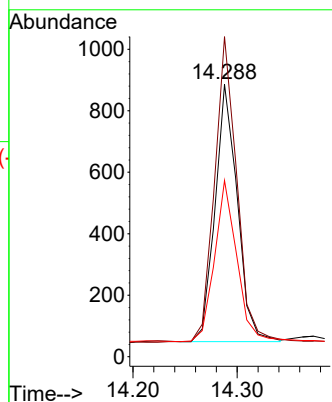
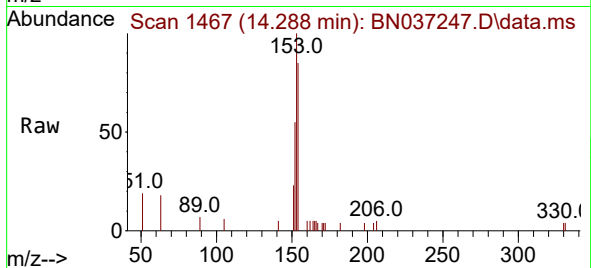
Tgt Ion:154 Resp: 1244

Ion Ratio Lower Upper

154 100

153 119.7 94.6 141.8

152 64.1 49.6 74.4



#18

Fluorene

Concen: 0.349 ng

RT: 15.282 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

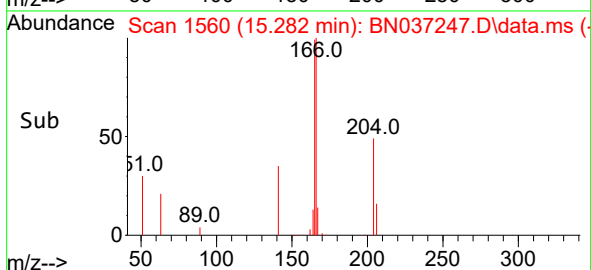
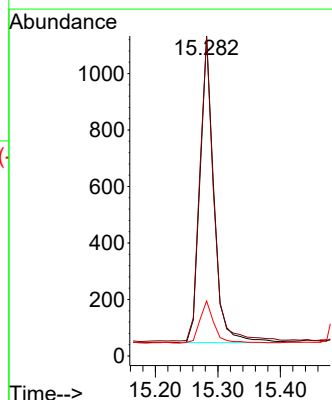
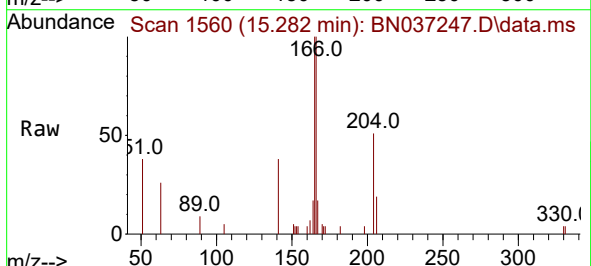
Tgt Ion:166 Resp: 1681

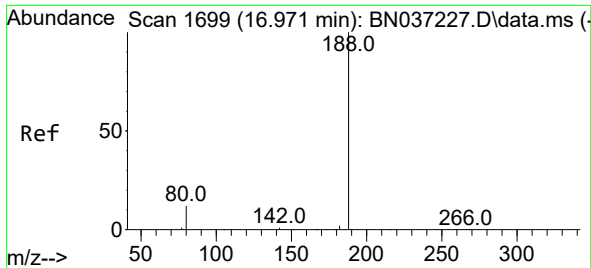
Ion Ratio Lower Upper

166 100

165 99.1 79.8 119.6

167 13.9 10.8 16.2

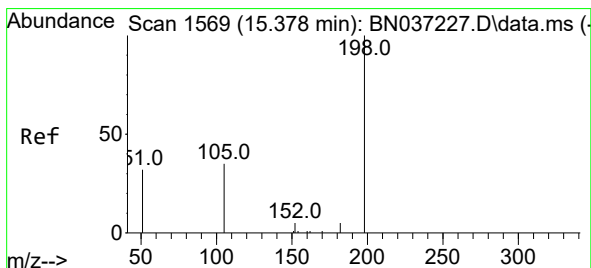
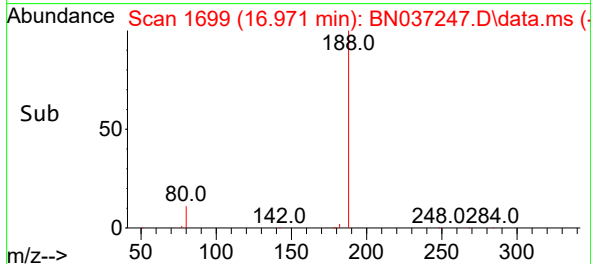
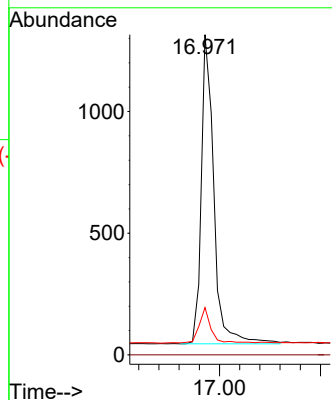
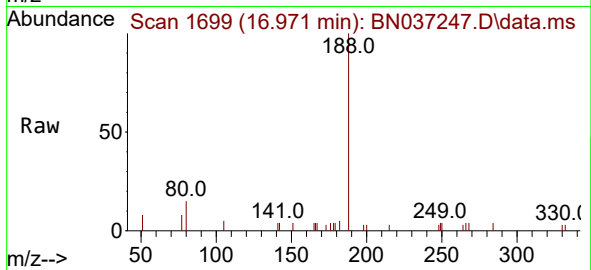




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

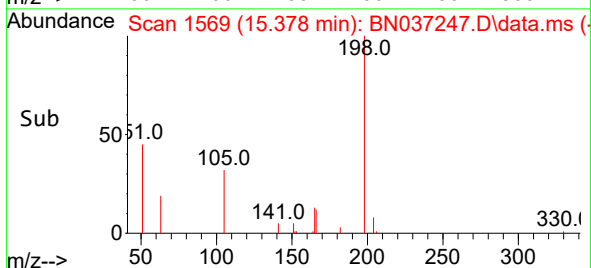
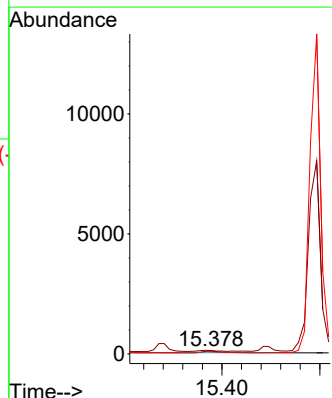
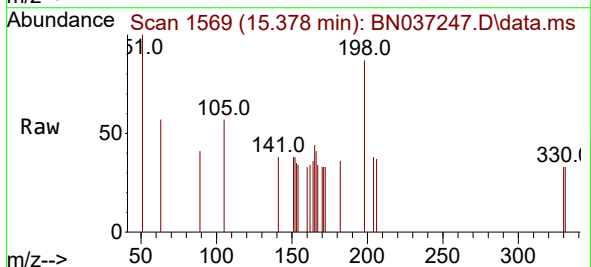
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

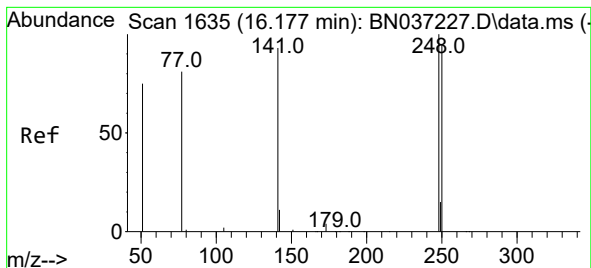
Tgt Ion:188 Resp: 2199
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.7 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.473 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:198 Resp: 206
Ion Ratio Lower Upper
198 100
51 115.0 111.2 166.8
105 65.8 54.0 81.0

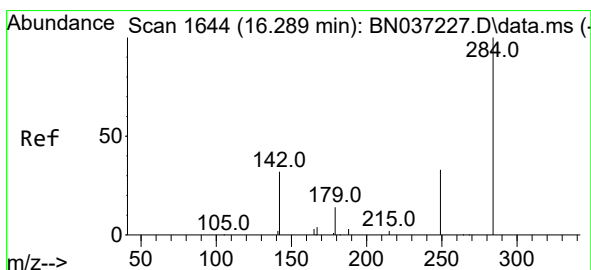
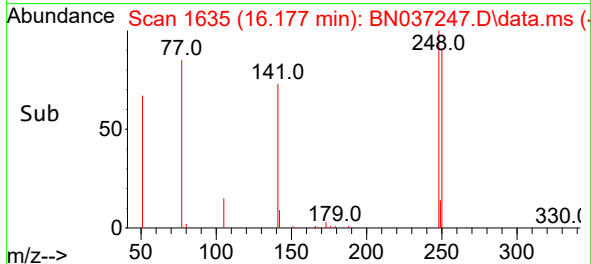
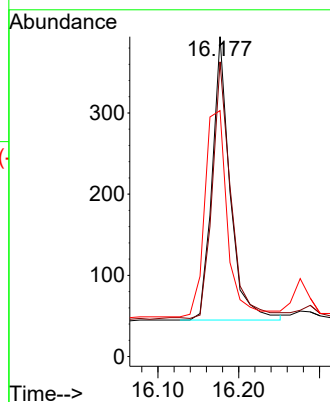
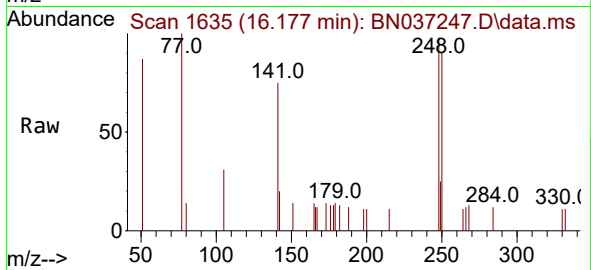




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

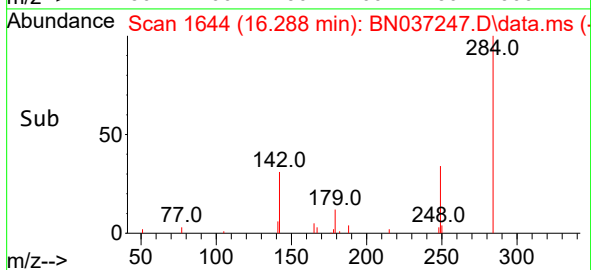
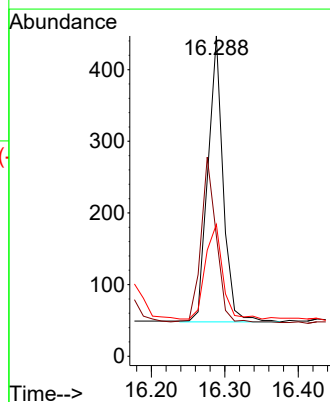
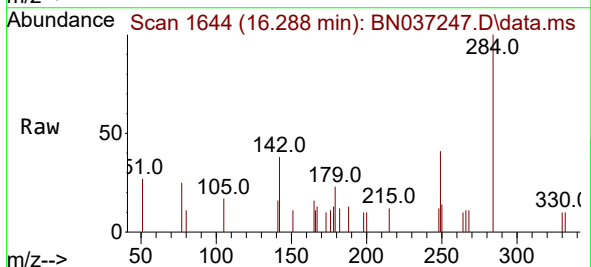
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

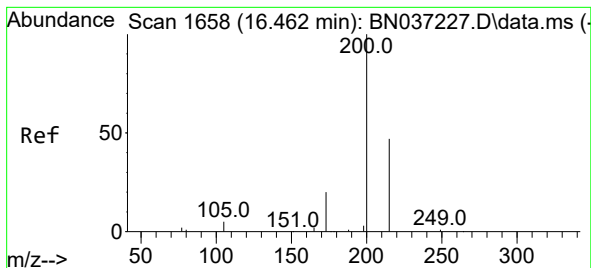
Tgt Ion:248 Resp: 538
Ion Ratio Lower Upper
248 100
250 92.1 76.8 115.2
141 76.9 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.288 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:284 Resp: 573
Ion Ratio Lower Upper
284 100
142 58.3 43.8 65.6
249 42.1 28.4 42.6





#23

Atrazine

Concen: 0.444 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

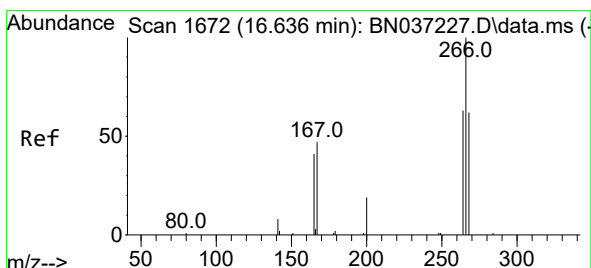
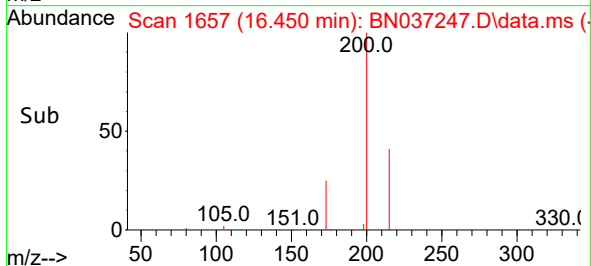
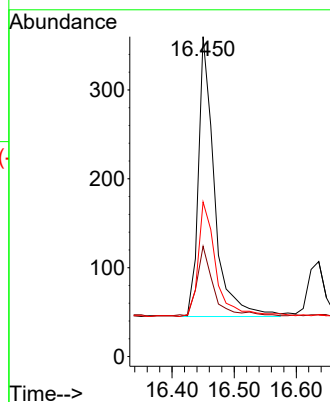
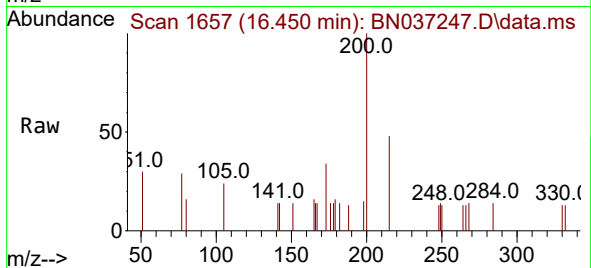
Tgt Ion:200 Resp: 567

Ion Ratio Lower Upper

200 100

173 34.4 25.1 37.7

215 48.3 43.7 65.5



#24

Pentachlorophenol

Concen: 0.754 ng

RT: 16.636 min Scan# 1672

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

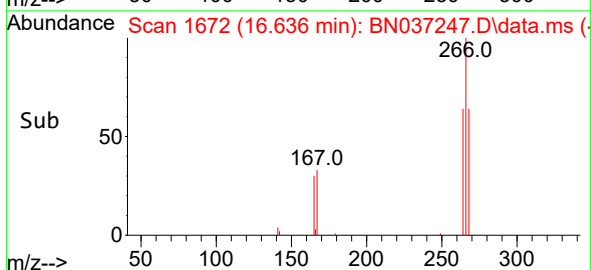
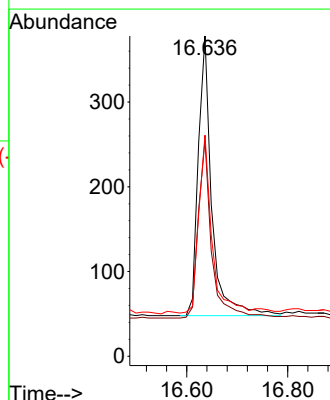
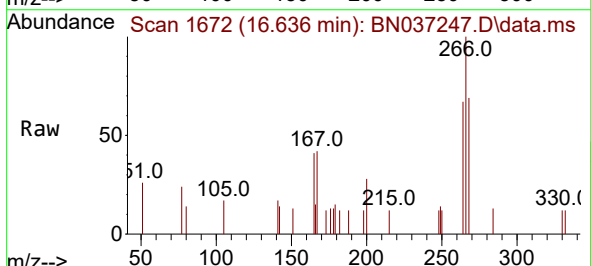
Tgt Ion:266 Resp: 614

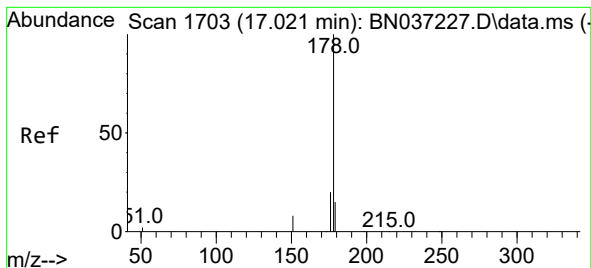
Ion Ratio Lower Upper

266 100

264 63.4 49.2 73.8

268 63.4 53.4 80.2





#25

Phenanthrene

Concen: 0.388 ng

RT: 17.021 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

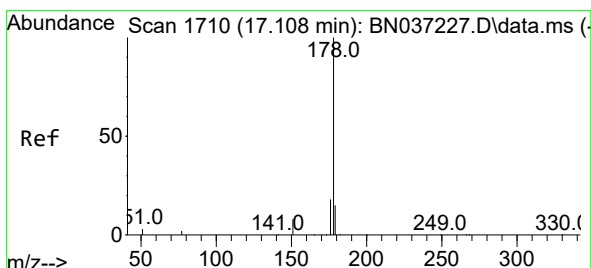
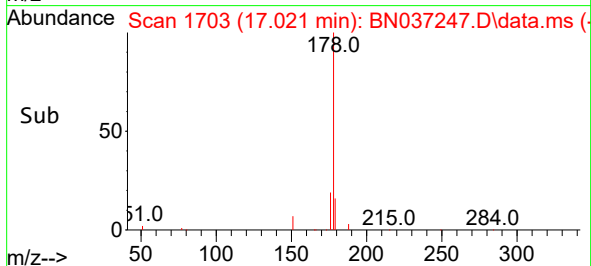
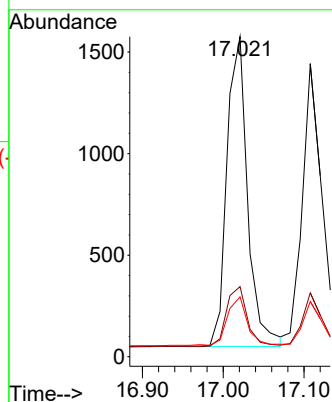
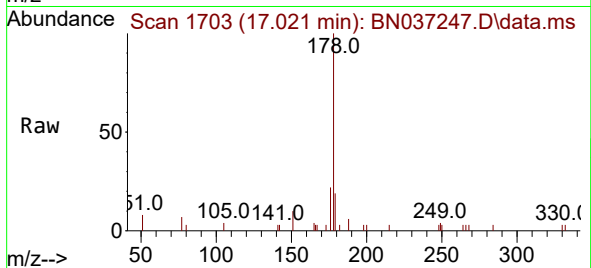
Tgt Ion:178 Resp: 2705

Ion Ratio Lower Upper

178 100

176 19.6 16.3 24.5

179 15.6 12.6 18.8



#26

Anthracene

Concen: 0.399 ng

RT: 17.108 min Scan# 1710

Delta R.T. -0.000 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

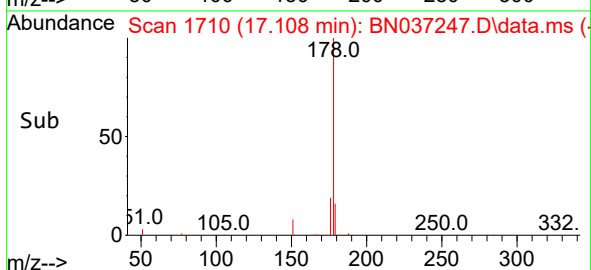
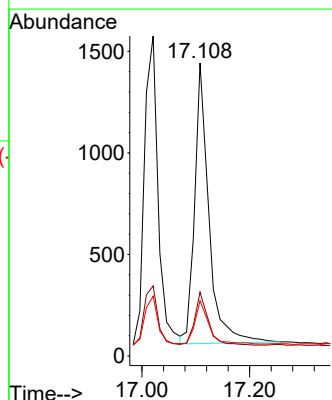
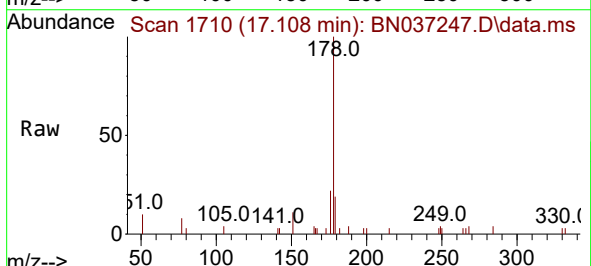
Tgt Ion:178 Resp: 2547

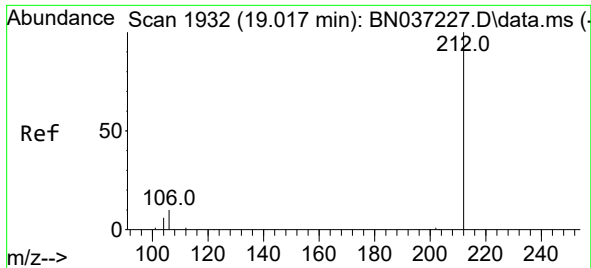
Ion Ratio Lower Upper

178 100

176 18.0 15.1 22.7

179 15.0 12.4 18.6

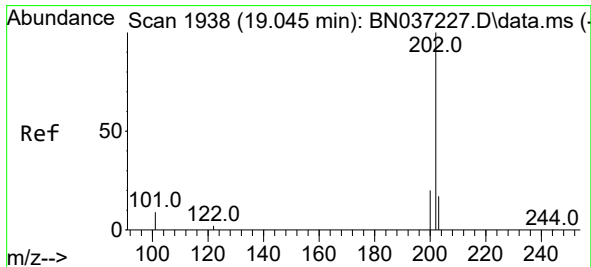
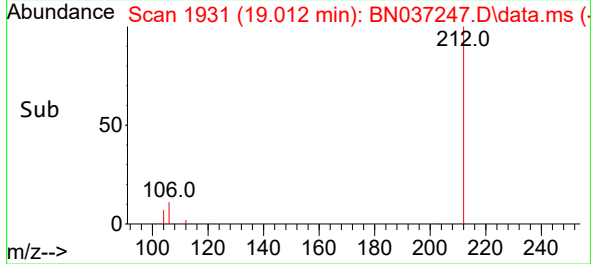
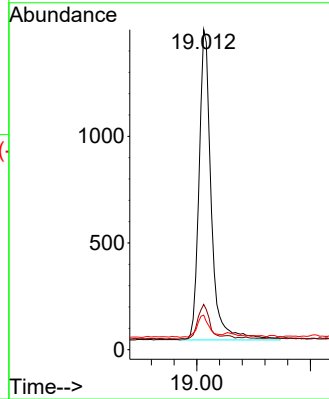
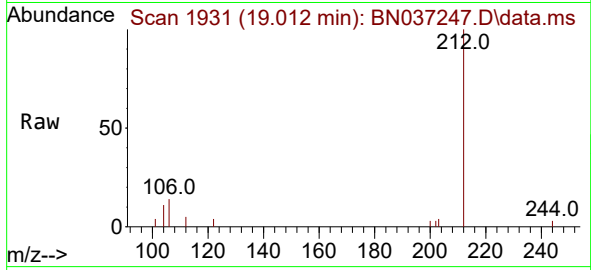




#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

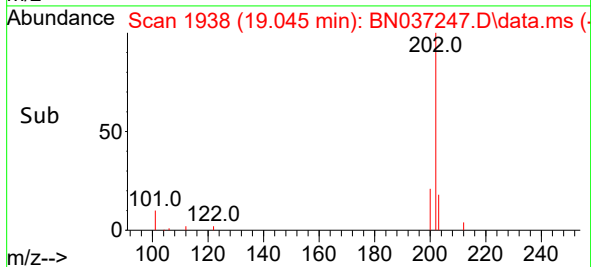
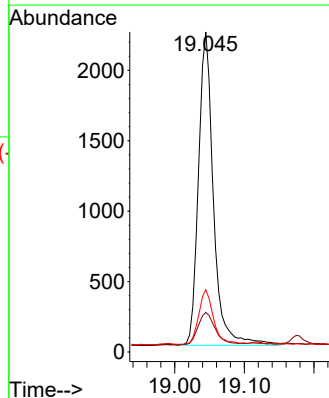
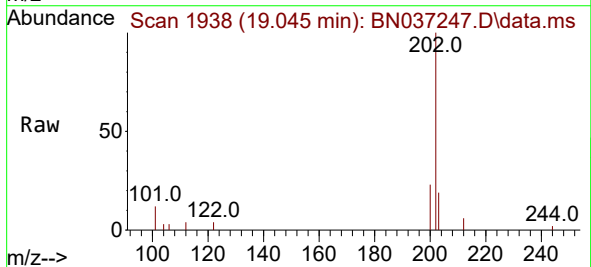
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

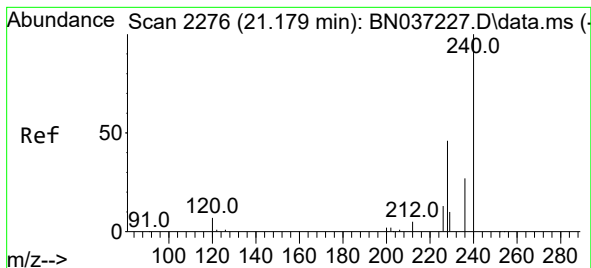
Tgt Ion:212 Resp: 2166
Ion Ratio Lower Upper
212 100
106 10.8 9.3 13.9
104 7.1 5.7 8.5



#28
Fluoranthene
Concen: 0.408 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:202 Resp: 3333
Ion Ratio Lower Upper
202 100
101 12.3 7.1 10.7#
203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

Instrument :

BNA_N

ClientSampleId :

TT191D1-20250609MSD

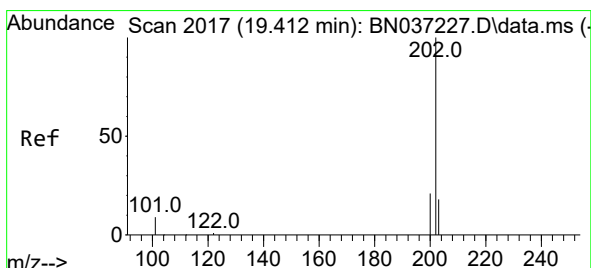
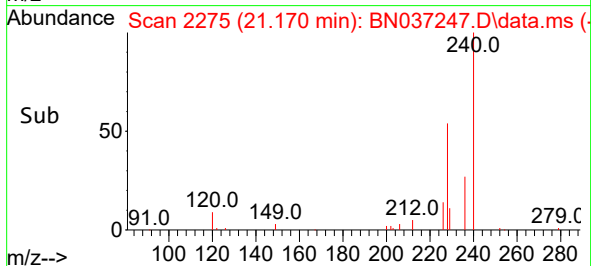
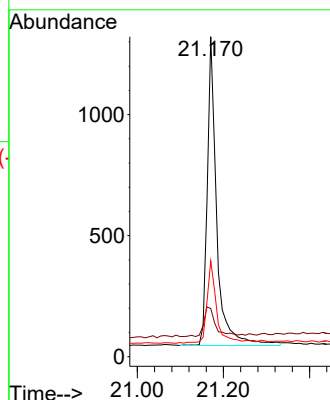
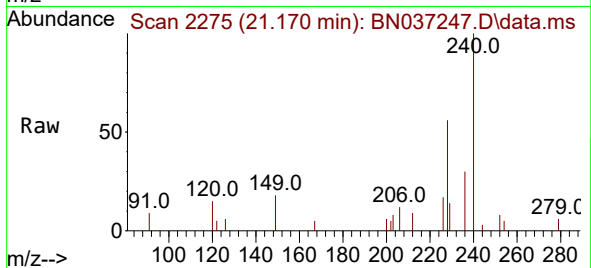
Tgt Ion:240 Resp: 1956

Ion Ratio Lower Upper

240 100

120 15.1 11.3 16.9

236 30.0 24.4 36.6



#30

Pyrene

Concen: 0.378 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

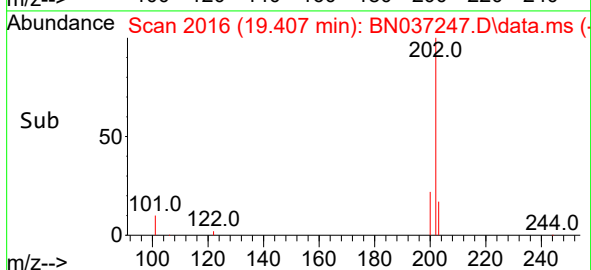
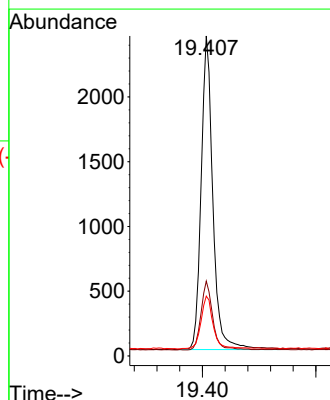
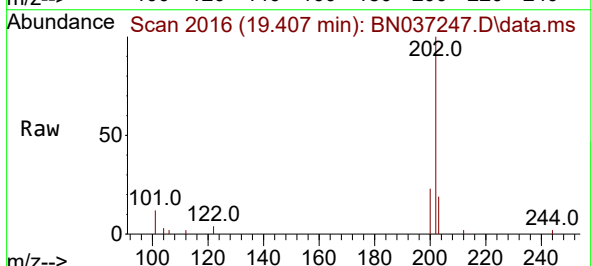
Tgt Ion:202 Resp: 3474

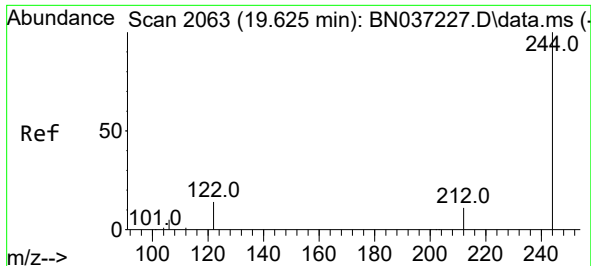
Ion Ratio Lower Upper

202 100

200 21.7 17.2 25.8

203 17.5 14.3 21.5

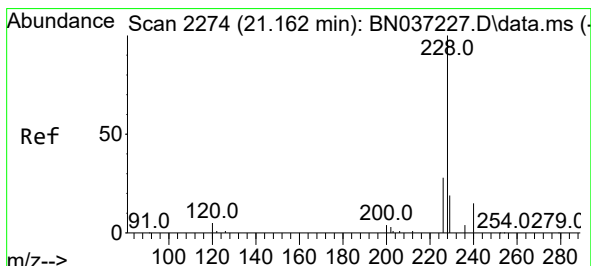
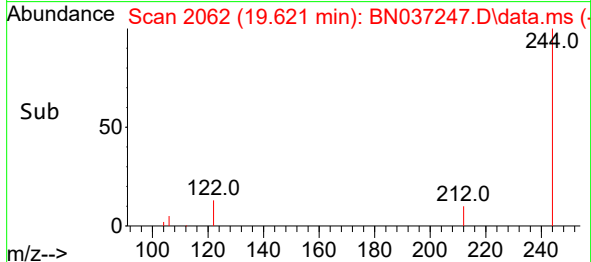
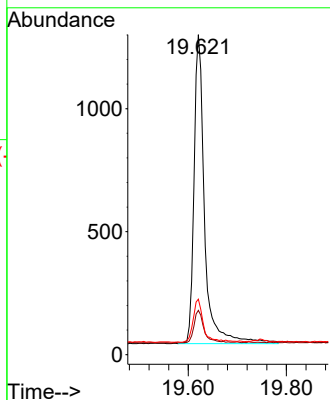
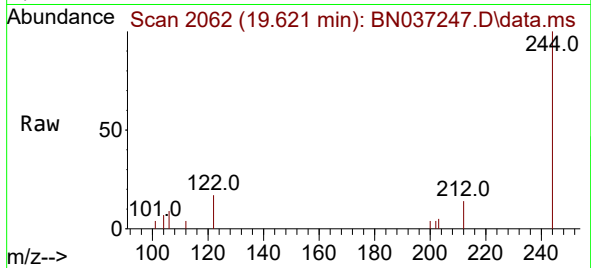




#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.621 min Scan# 2063
Delta R.T. -0.005 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

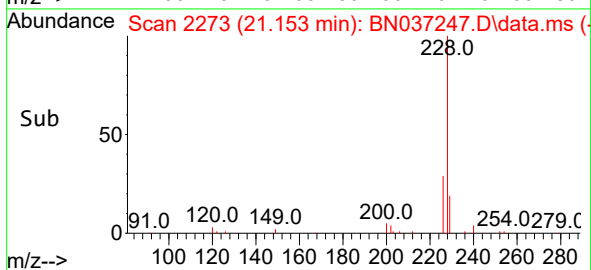
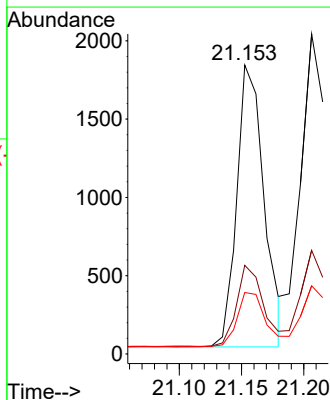
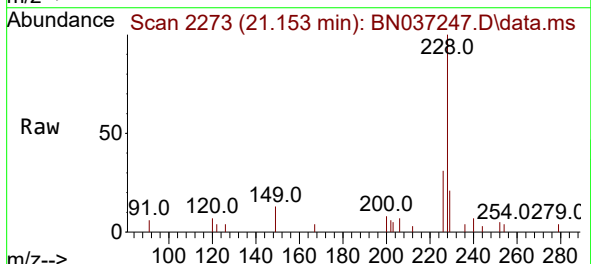
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

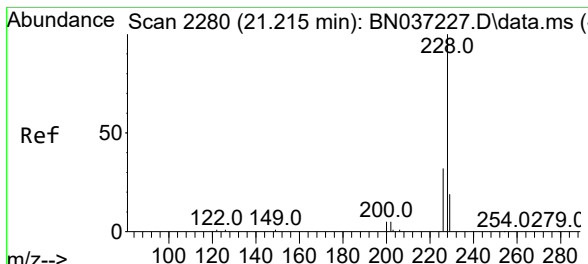
Tgt Ion:244 Resp: 1884
Ion Ratio Lower Upper
244 100
212 13.8 12.2 18.2
122 17.4 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:228 Resp: 2751
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 21.3 17.0 25.4

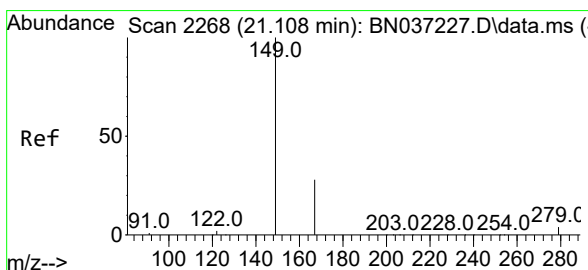
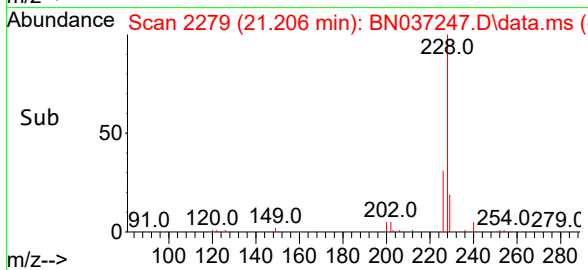
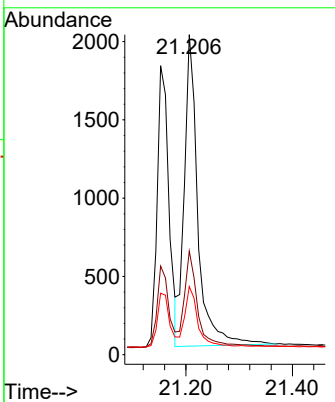
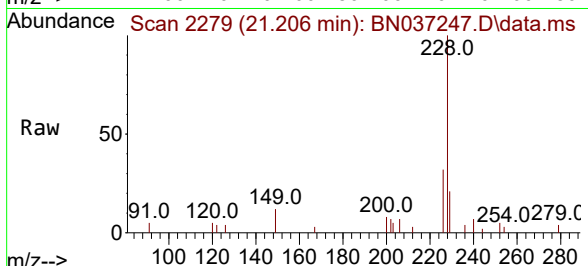




#33
 Chrysene
 Concen: 0.428 ng
 RT: 21.206 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN037247.D
 Acq: 14 Jun 2025 04:08

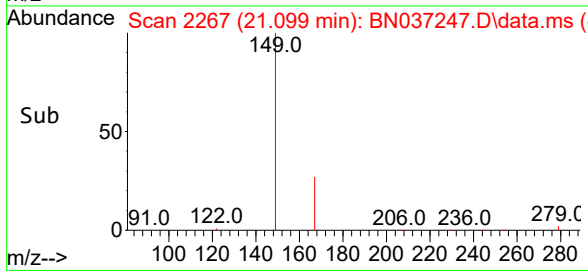
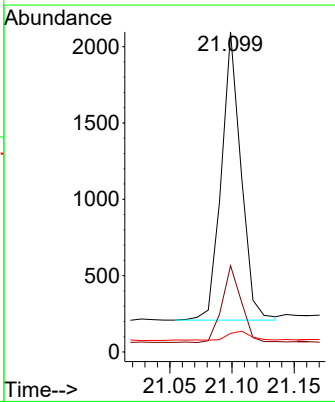
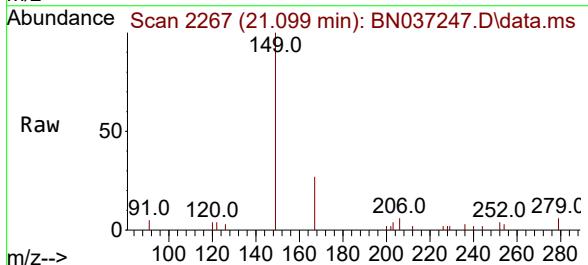
Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MSD

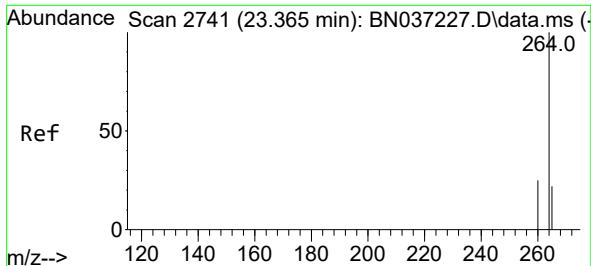
Tgt Ion:	228	Resp:	3522
Ion Ratio	Lower	Upper	
228	100		
226	32.4	25.8	38.6
229	21.3	17.0	25.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.422 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.009 min
 Lab File: BN037247.D
 Acq: 14 Jun 2025 04:08

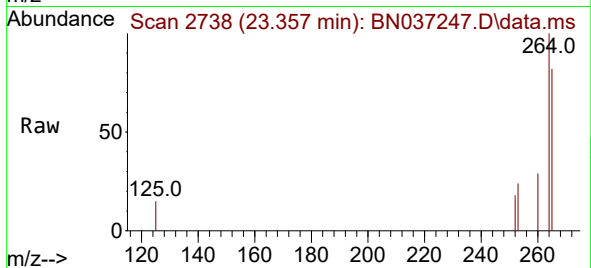
Tgt Ion:	149	Resp:	2078
Ion Ratio	Lower	Upper	
149	100		
167	26.0	21.3	31.9
279	4.0	3.3	4.9





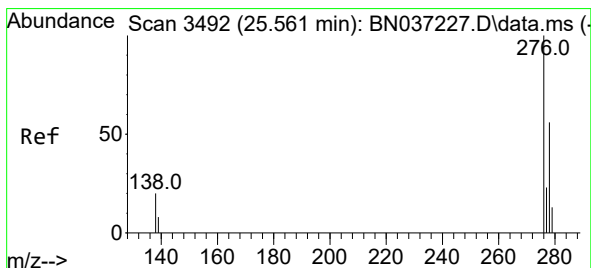
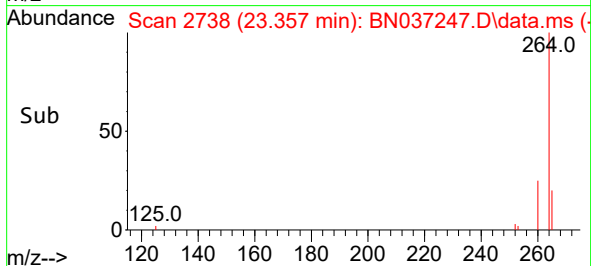
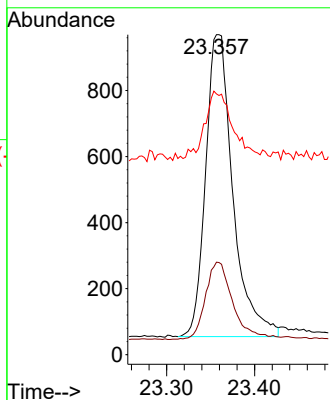
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD



Tgt Ion:264 Resp: 1969

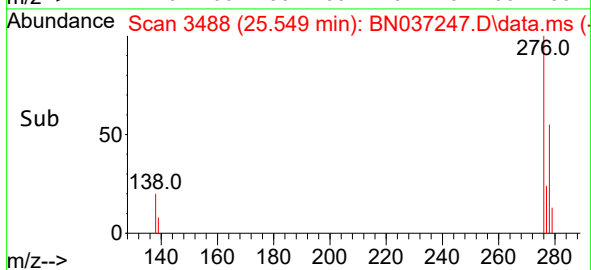
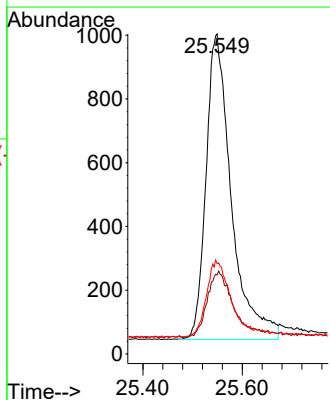
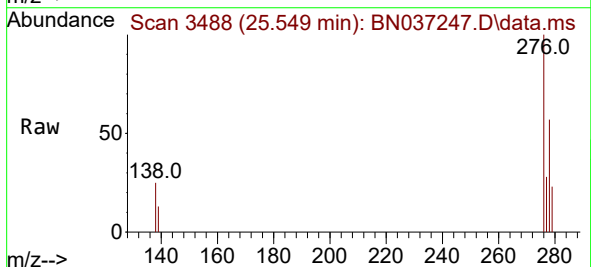
Ion	Ratio	Lower	Upper
264	100		
260	28.9	22.8	34.2
265	81.5	66.4	99.6

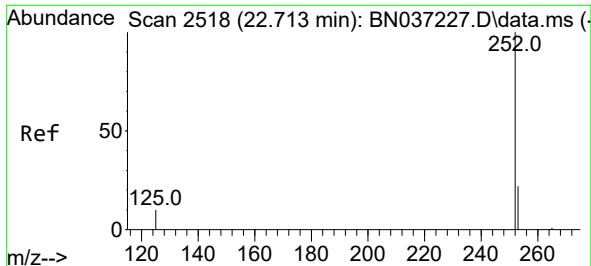


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.426 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.012 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:276 Resp: 3380

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.8	25.2
277	24.0	19.5	29.3

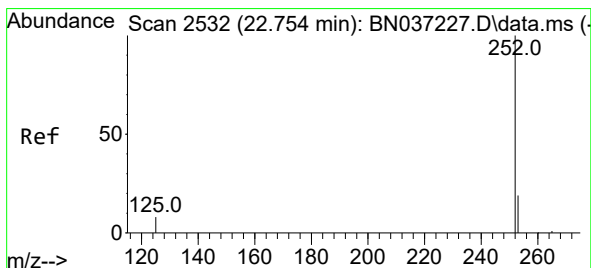
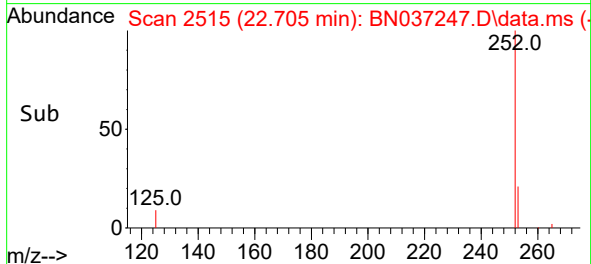
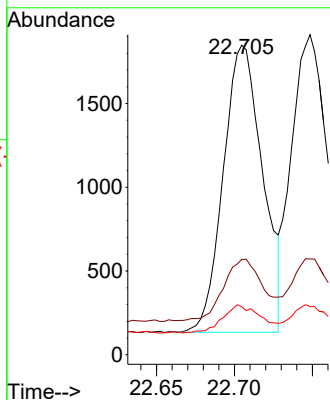
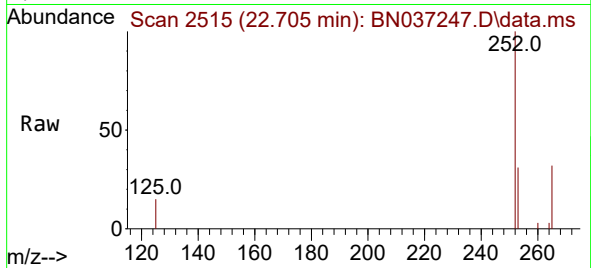




#37
Benzo(b)fluoranthene
Concen: 0.418 ng
RT: 22.705 min Scan# 2515
Delta R.T. -0.009 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

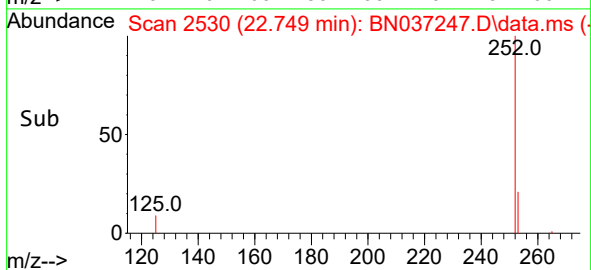
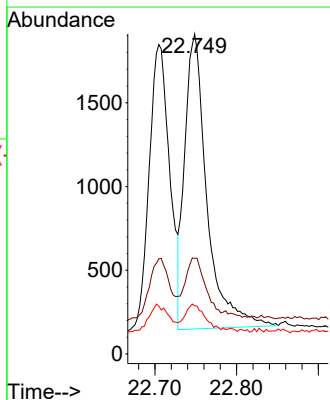
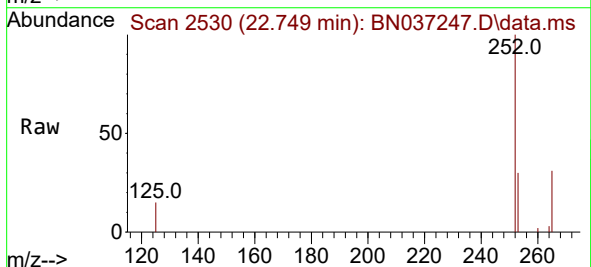
Instrument :
BNA_N
ClientSampleId :
TT191D1-20250609MSD

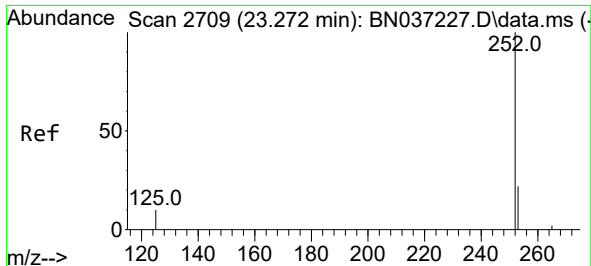
Tgt Ion:252 Resp: 3013
Ion Ratio Lower Upper
252 100
253 30.8 24.9 37.3
125 15.5 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037247.D
Acq: 14 Jun 2025 04:08

Tgt Ion:252 Resp: 3339
Ion Ratio Lower Upper
252 100
253 29.9 24.6 37.0
125 15.1 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.431 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037247.D

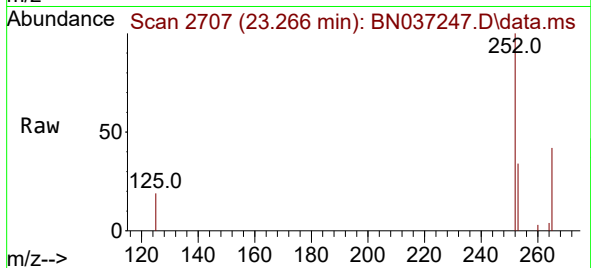
Acq: 14 Jun 2025 04:08

Instrument :

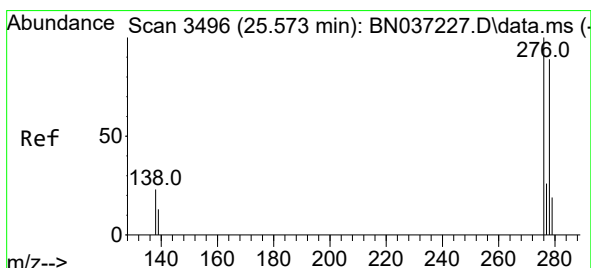
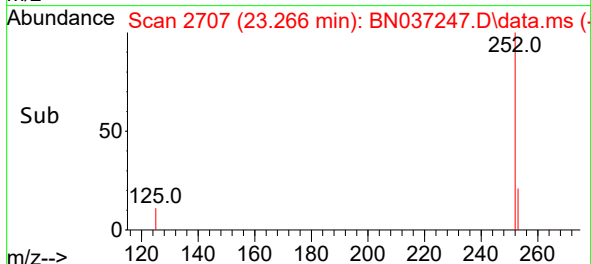
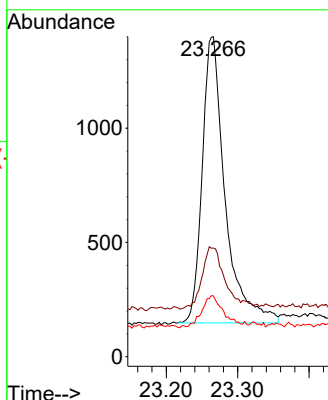
BNA_N

ClientSampleId :

TT191D1-20250609MSD



Tgt Ion:	252	Resp:	2791
Ion Ratio	Lower	Upper	
252	100		
253	34.0	29.4	44.2
125	19.0	16.2	24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.437 ng

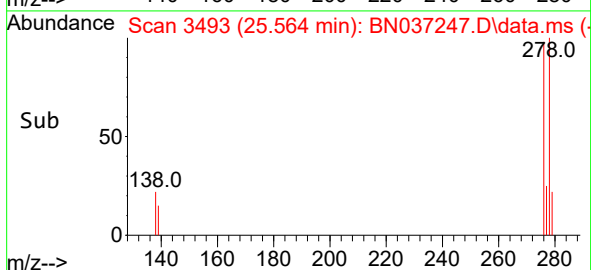
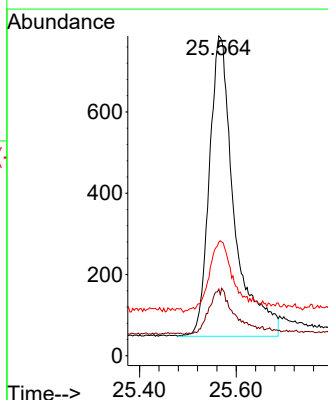
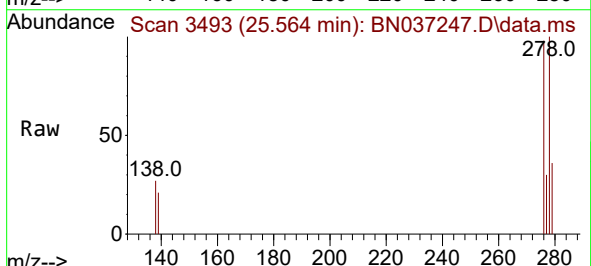
RT: 25.564 min Scan# 3493

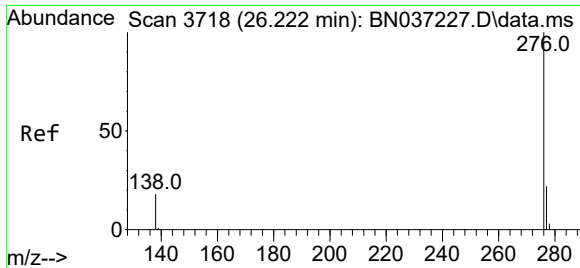
Delta R.T. -0.009 min

Lab File: BN037247.D

Acq: 14 Jun 2025 04:08

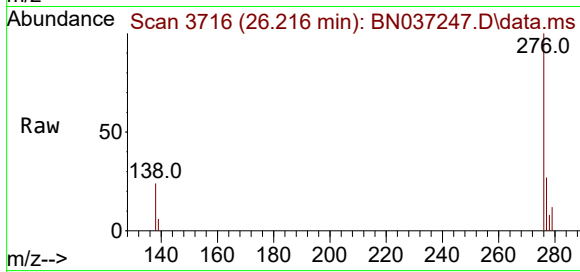
Tgt Ion:	278	Resp:	2637
Ion Ratio	Lower	Upper	
278	100		
139	20.8	17.8	26.6
279	35.6	31.3	46.9





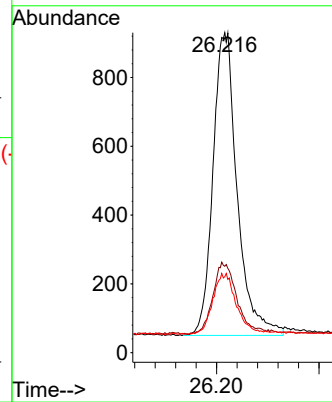
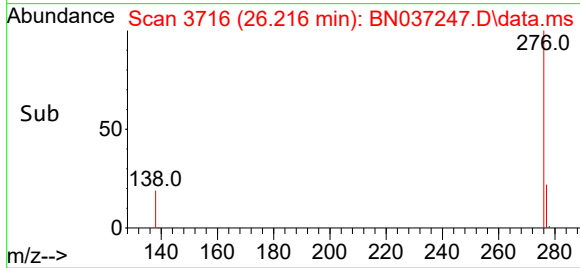
#41
 Benzo(g,h,i)perylene
 Concen: 0.393 ng
 RT: 26.216 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN037247.D
 Acq: 14 Jun 2025 04:08

Instrument :
 BNA_N
 ClientSampleId :
 TT191D1-20250609MSD



Tgt Ion: 276 Resp: 2894

Ion	Ratio	Lower	Upper
276	100		
277	27.0	22.0	33.0
138	23.8	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037270.D
 Acq On : 14 Jun 2025 20:00
 Operator : RC/JU
 Sample : PB168458BS
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168458BS

Quant Time: Jun 16 02:44:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

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

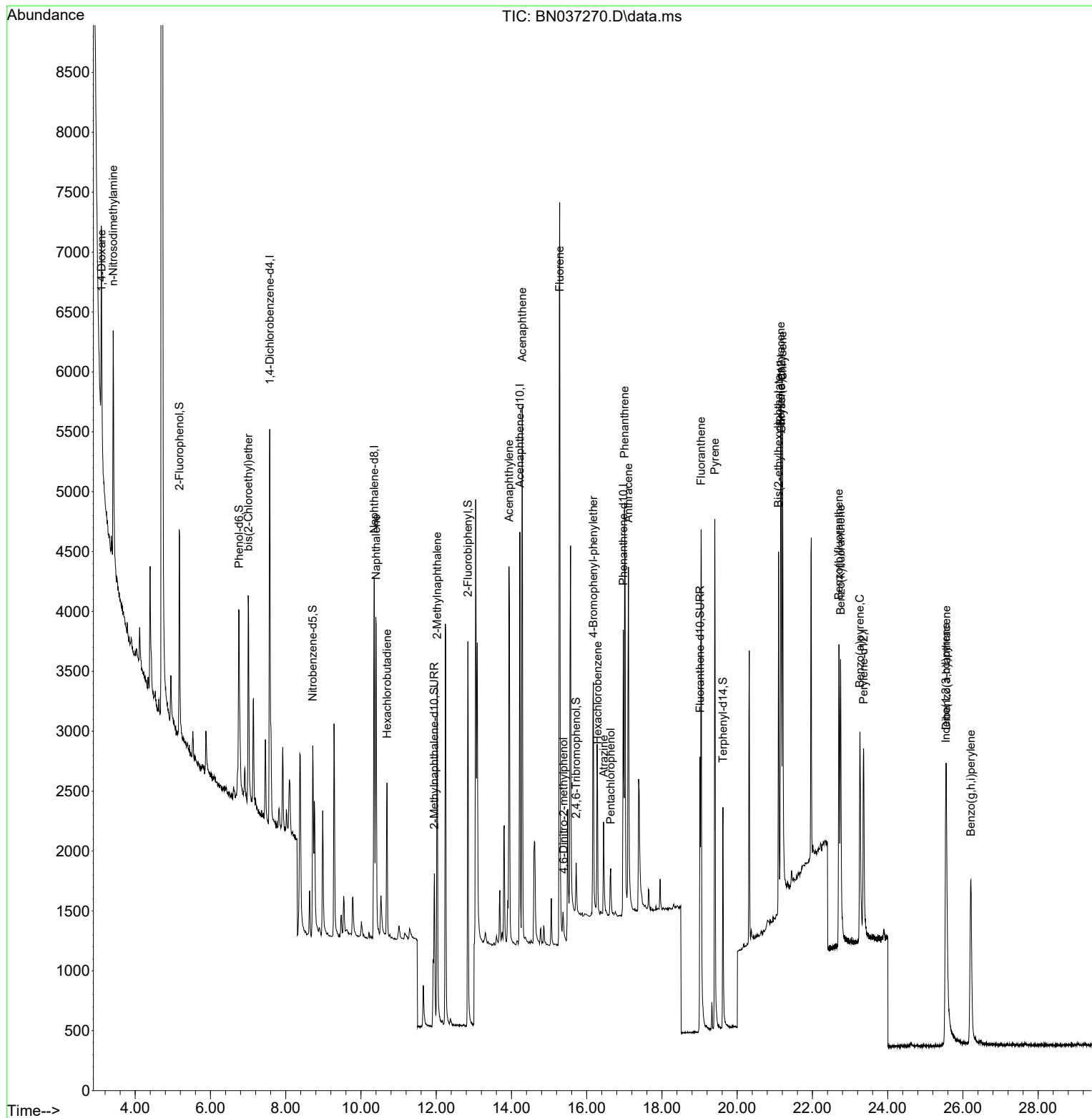
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1588	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3911	0.400	ng	-0.01
13) Acenaphthene-d10	14.224	164	1944	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3410	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2495	0.400	ng	0.00
35) Perylene-d12	23.360	264	2298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1318	0.338	ng	0.00
5) Phenol-d6	6.759	99	1473	0.358	ng	0.00
8) Nitrobenzene-d5	8.717	82	1391	0.360	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	2854	0.544	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	247	0.306	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	3044	0.373	ng	0.00
27) Fluoranthene-d10	19.012	212	3035	0.340	ng	0.00
31) Terphenyl-d14	19.621	244	2131	0.378	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	779	0.358	ng	# 35
3) n-Nitrosodimethylamine	3.415	42	1716	0.346	ng	# 98
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.367	ng	97
9) Naphthalene	10.404	128	3863	0.341	ng	99
10) Hexachlorobutadiene	10.692	225	984	0.357	ng	# 96
12) 2-Methylnaphthalene	12.026	142	2180	0.317	ng	99
16) Acenaphthylene	13.935	152	3608	0.379	ng	99
17) Acenaphthene	14.288	154	2128	0.346	ng	99
18) Fluorene	15.282	166	2799	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	248	0.394	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	830	0.374	ng	# 84
22) Hexachlorobenzene	16.289	284	927	0.360	ng	98
23) Atrazine	16.450	200	760	0.383	ng	94
24) Pentachlorophenol	16.636	266	252	0.200	ng	94
25) Phenanthrene	17.009	178	3936	0.364	ng	99
26) Anthracene	17.108	178	3696	0.373	ng	99
28) Fluoranthene	19.040	202	4192	0.331	ng	98
30) Pyrene	19.407	202	4321	0.368	ng	100
32) Benzo(a)anthracene	21.153	228	3158	0.375	ng	99
33) Chrysene	21.206	228	3873	0.369	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	2339	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.544	276	3705	0.400	ng	100
37) Benzo(b)fluoranthene	22.705	252	3140	0.374	ng	98
38) Benzo(k)fluoranthene	22.749	252	3614	0.372	ng	99
39) Benzo(a)pyrene	23.260	252	3030	0.401	ng	98
40) Dibenzo(a,h)anthracene	25.558	278	2809	0.398	ng	96
41) Benzo(g,h,i)perylene	26.210	276	3183	0.370	ng	99

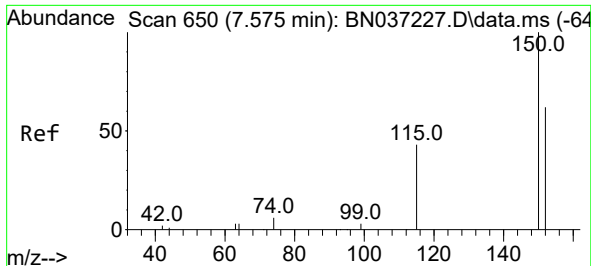
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037270.D
Acq On : 14 Jun 2025 20:00
Operator : RC/JU
Sample : PB168458BS
Misc :
ALS Vial : 49 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Quant Time: Jun 16 02:44:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

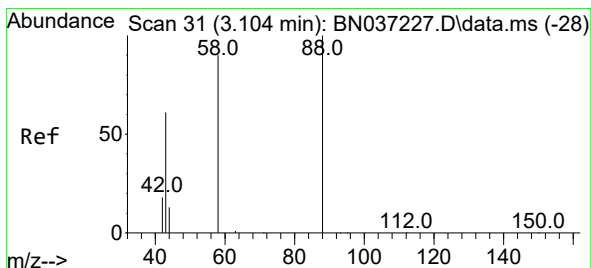
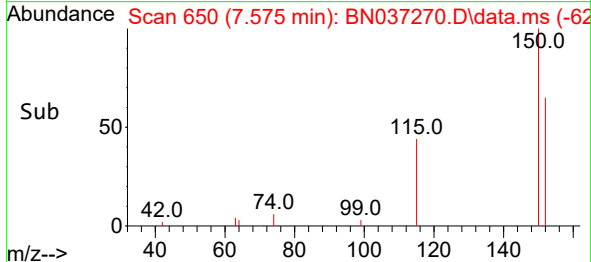
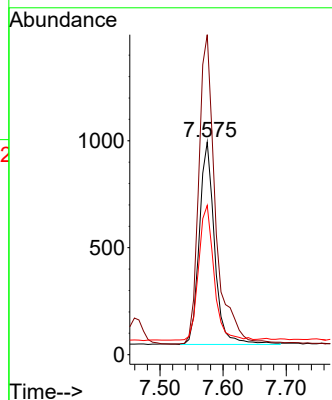
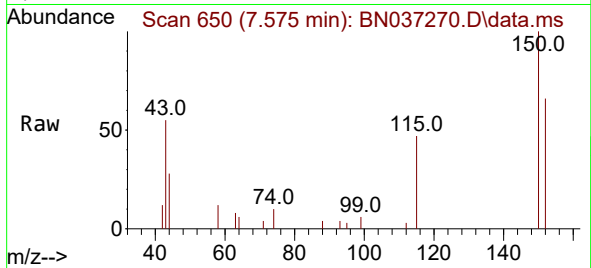




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

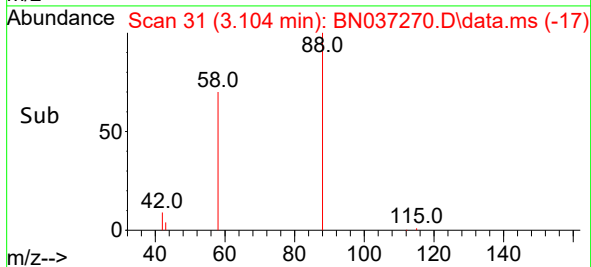
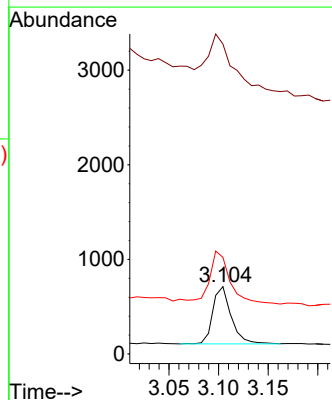
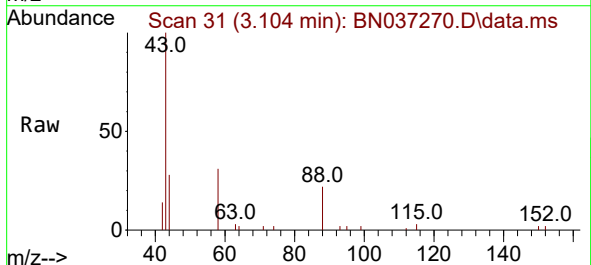
Instrument :
 BNA_N
 ClientSampleId :
 PB168458BS

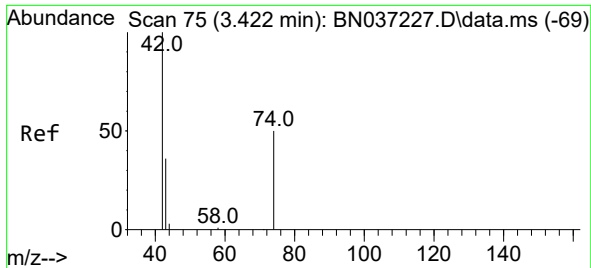
Tgt Ion:152 Resp: 1588
 Ion Ratio Lower Upper
 152 100
 150 150.5 125.2 187.8
 115 70.2 58.4 87.6



#2
 1,4-Dioxane
 Concen: 0.358 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

Tgt Ion: 88 Resp: 779
 Ion Ratio Lower Upper
 88 100
 43 177.2 52.6 79.0#
 58 103.1 73.5 110.3

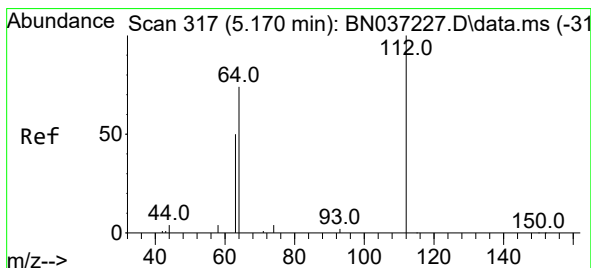
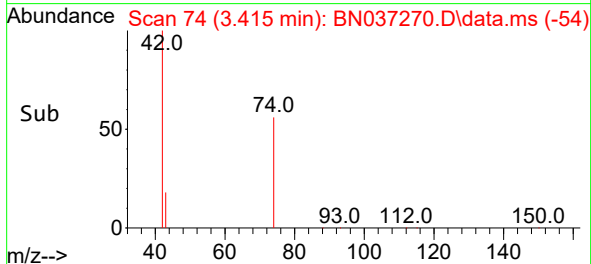
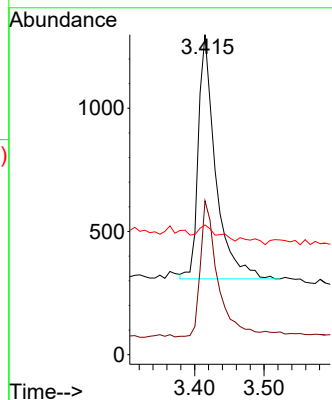
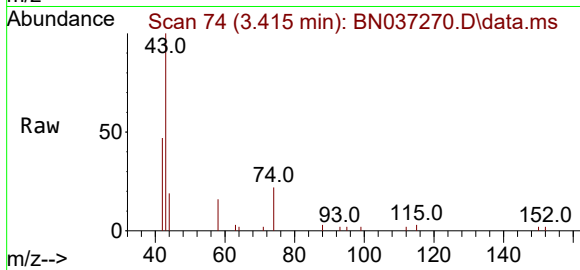




#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

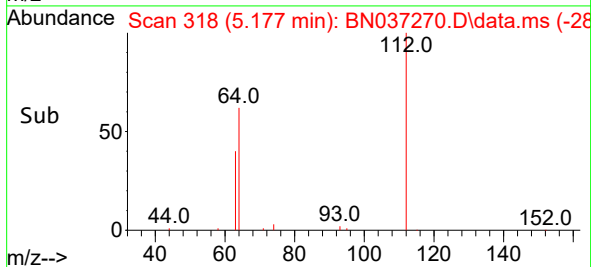
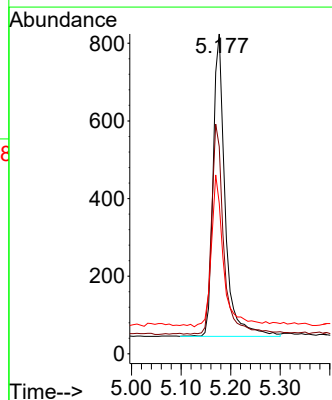
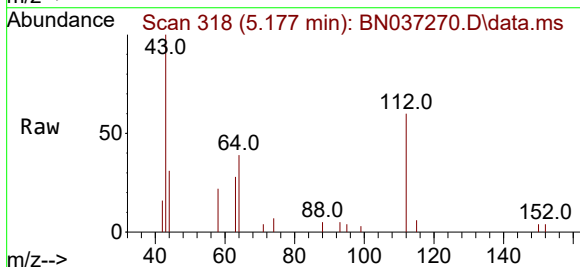
Instrument :
BNA_N
ClientSampleId :
PB168458BS

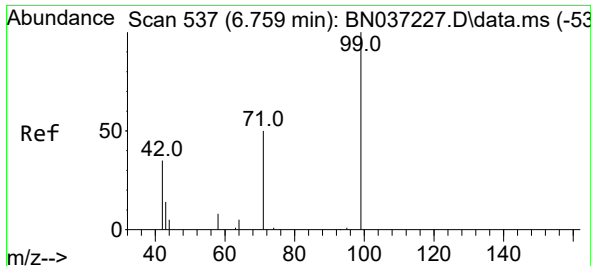
Tgt Ion: 42 Resp: 1716
Ion Ratio Lower Upper
42 100
74 54.8 44.6 66.8
44 7.2 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 112 Resp: 1318
Ion Ratio Lower Upper
112 100
64 70.6 57.2 85.8
63 50.7 39.8 59.6

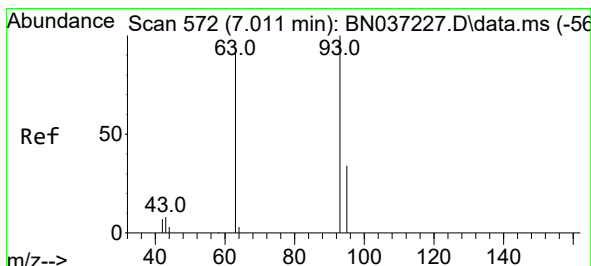
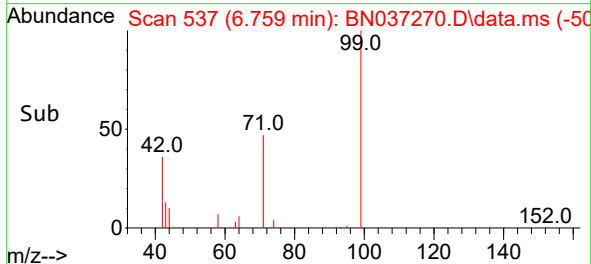
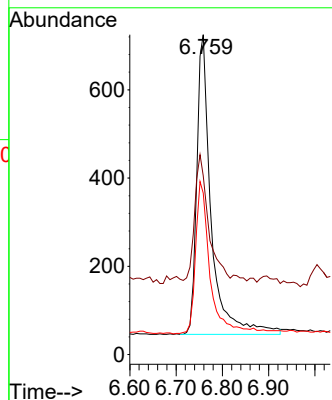
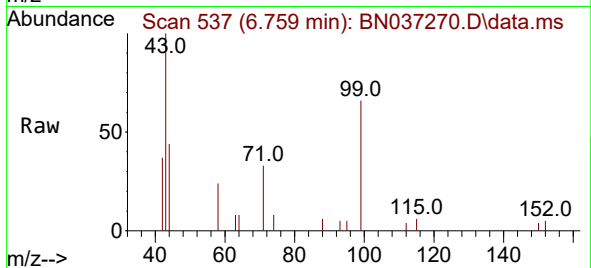




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

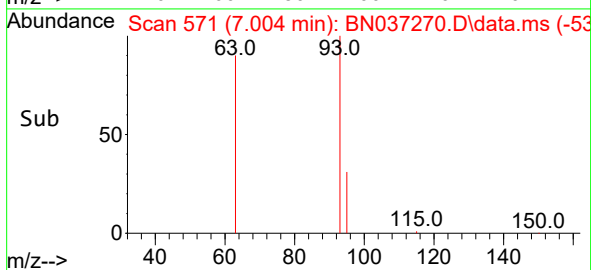
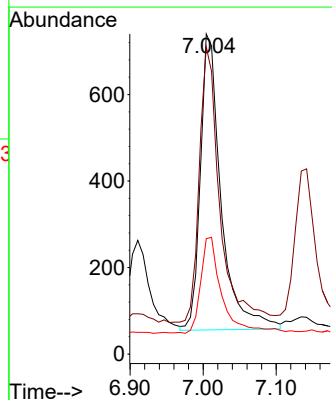
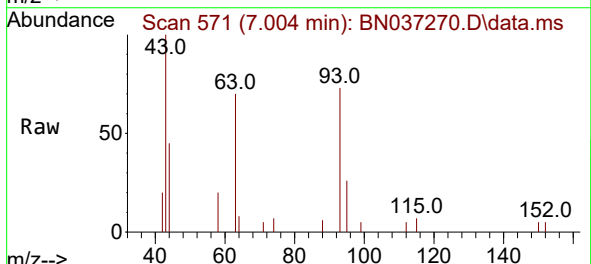
Instrument :
BNA_N
ClientSampleId :
PB168458BS

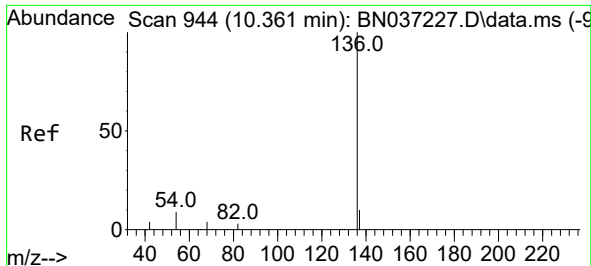
Tgt Ion: 99 Resp: 1473
Ion Ratio Lower Upper
99 100
42 40.4 36.2 54.4
71 51.6 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion: 93 Resp: 1351
Ion Ratio Lower Upper
93 100
63 91.2 75.2 112.8
95 32.8 28.3 42.5

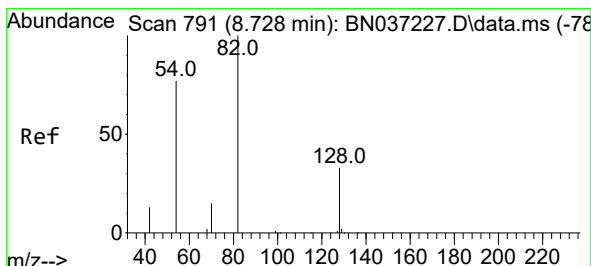
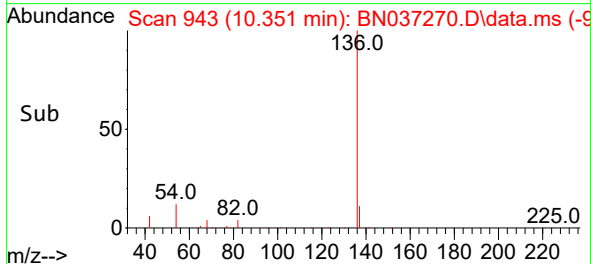
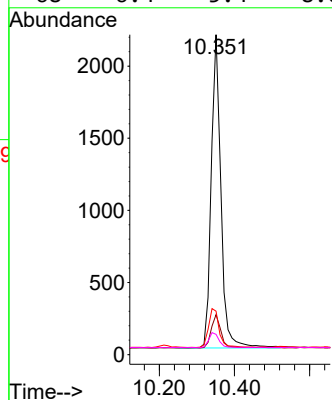
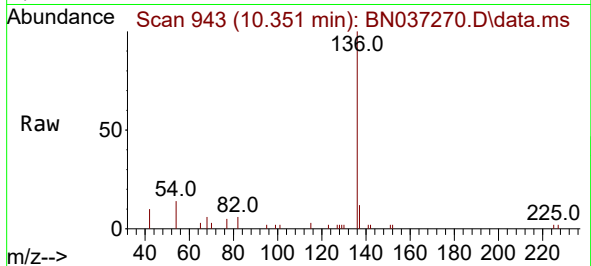




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

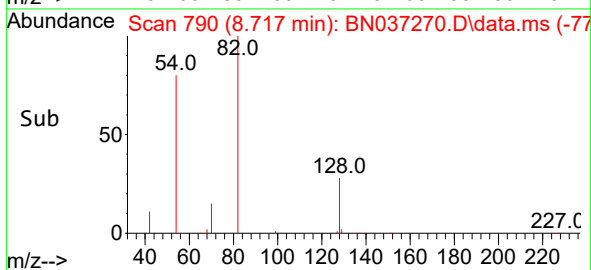
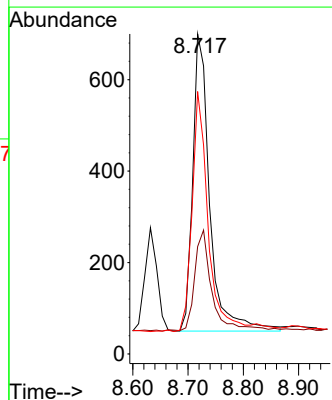
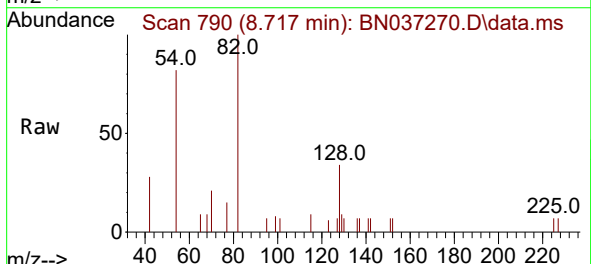
Instrument :
BNA_N
ClientSampleId :
PB168458BS

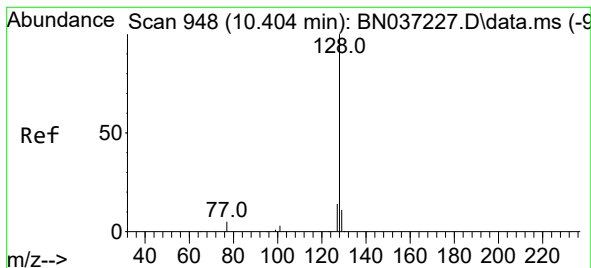
Tgt Ion:	136	Resp:	3911
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.6	15.8
54	13.6	9.2	13.8
68	6.4	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:	82	Resp:	1391
Ion	Ratio	Lower	Upper
82	100		
128	33.6	31.2	46.8
54	82.0	63.3	94.9





#9

Naphthalene

Concen: 0.341 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

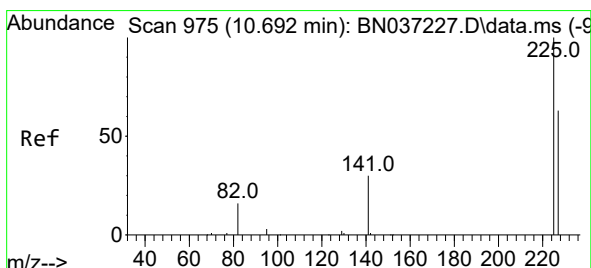
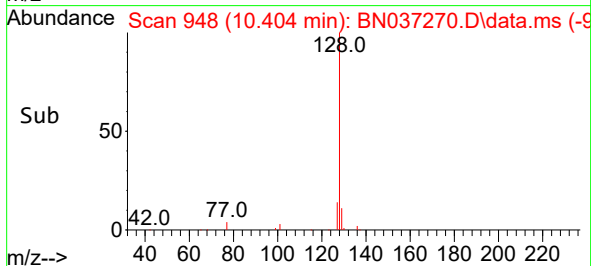
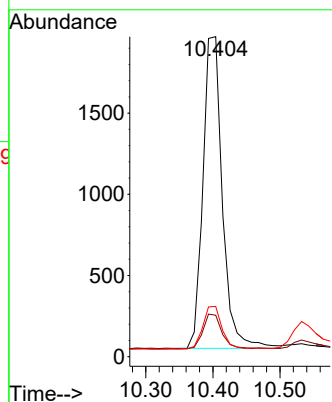
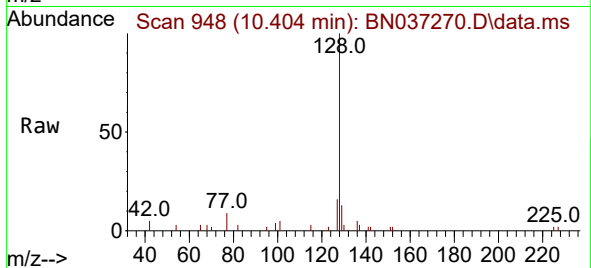
Tgt Ion:128 Resp: 3863

Ion Ratio Lower Upper

128 100

129 12.9 10.7 16.1

127 15.7 12.6 19.0



#10

Hexachlorobutadiene

Concen: 0.357 ng

RT: 10.692 min Scan# 975

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

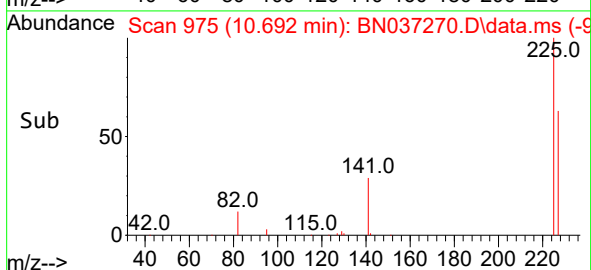
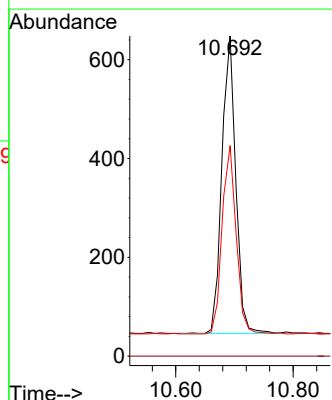
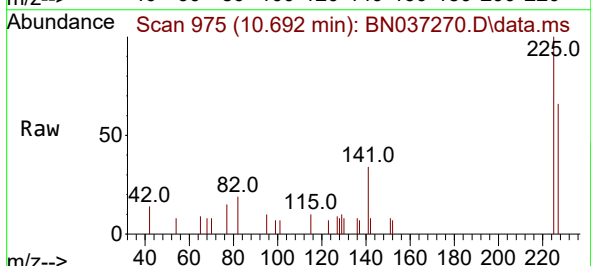
Tgt Ion:225 Resp: 984

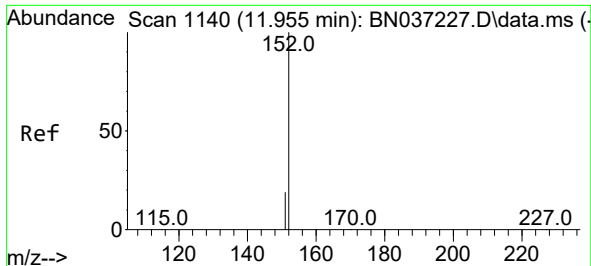
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.4 49.2 73.8





#11

2-Methylnaphthalene-d10

Concen: 0.544 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

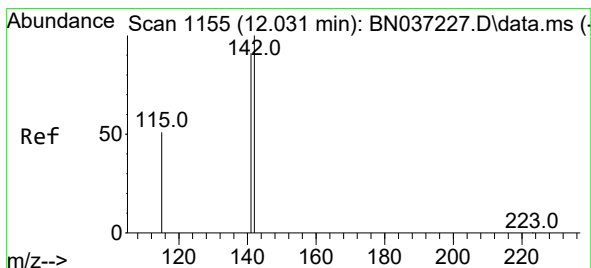
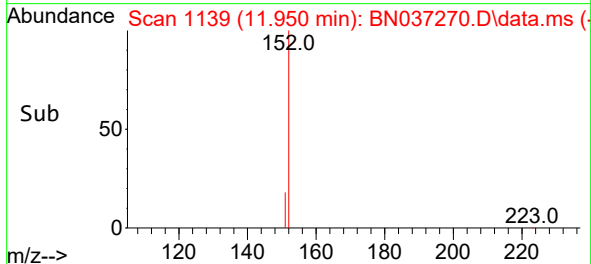
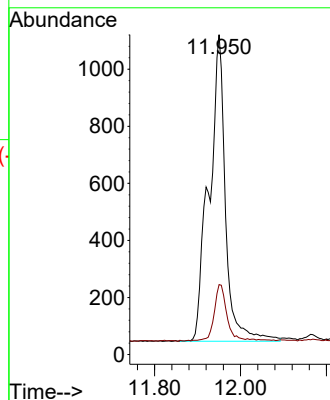
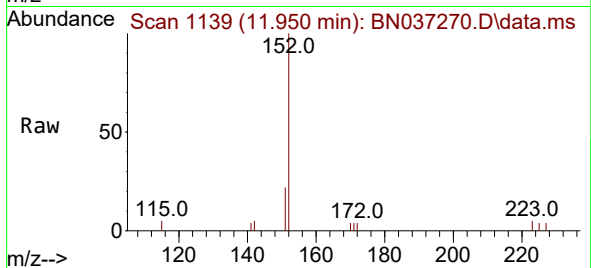
PB168458BS

Tgt Ion:152 Resp: 2854

Ion Ratio Lower Upper

152 100

151 13.8 17.9 26.9#



#12

2-Methylnaphthalene

Concen: 0.317 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

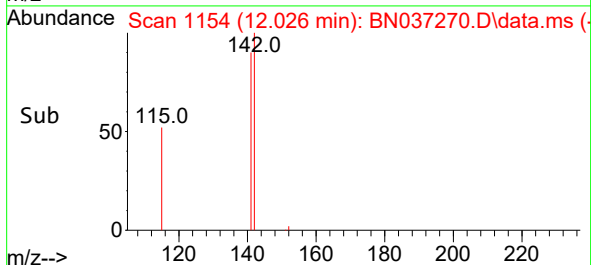
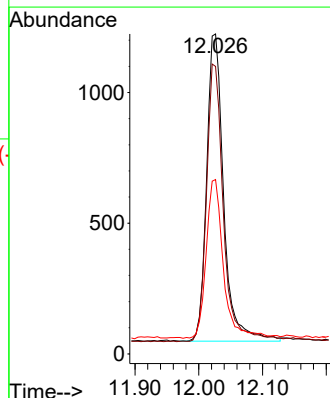
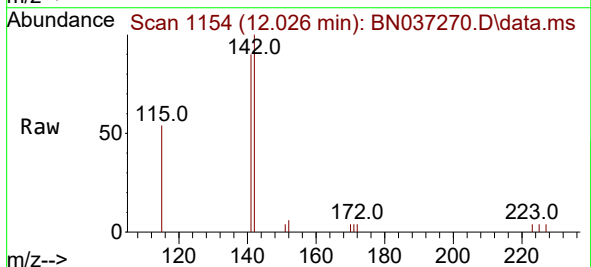
Tgt Ion:142 Resp: 2180

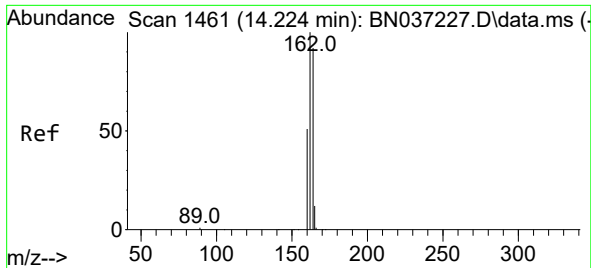
Ion Ratio Lower Upper

142 100

141 89.9 73.0 109.6

115 54.5 43.3 64.9

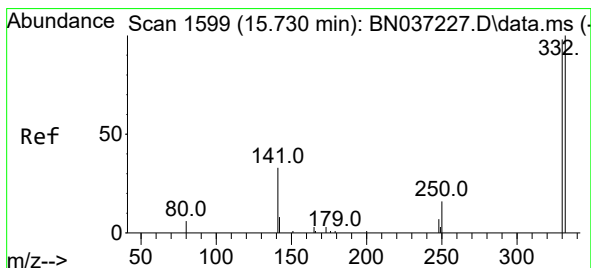
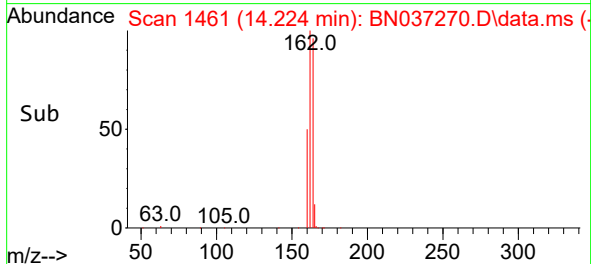
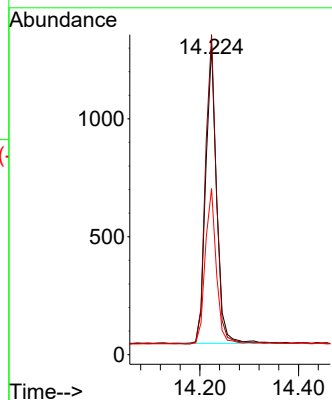
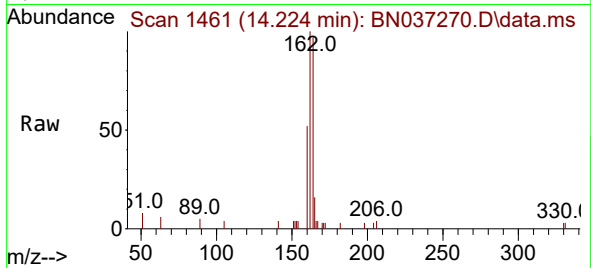




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

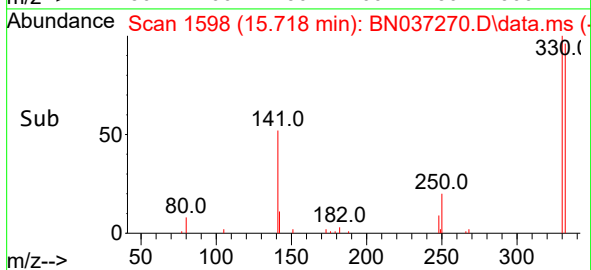
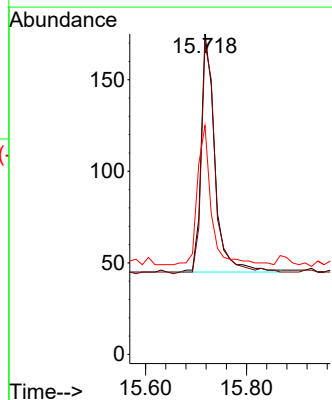
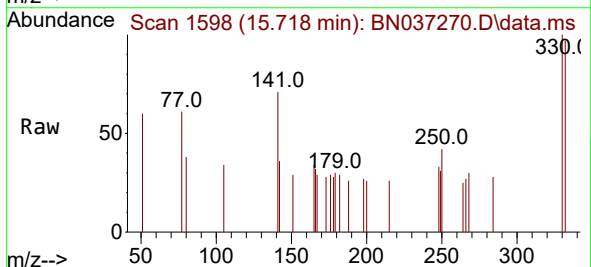
Instrument :
BNA_N
ClientSampleId :
PB168458BS

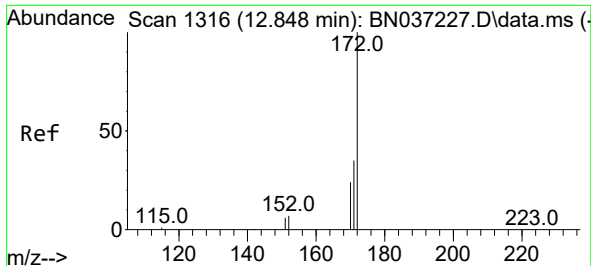
Tgt Ion:164 Resp: 1944
Ion Ratio Lower Upper
164 100
162 103.5 86.7 130.1
160 53.7 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.306 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:330 Resp: 247
Ion Ratio Lower Upper
330 100
332 100.8 74.9 112.3
141 57.9 45.1 67.7

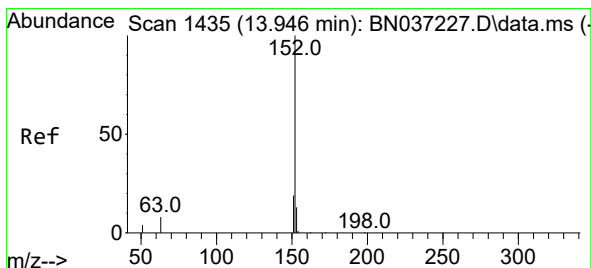
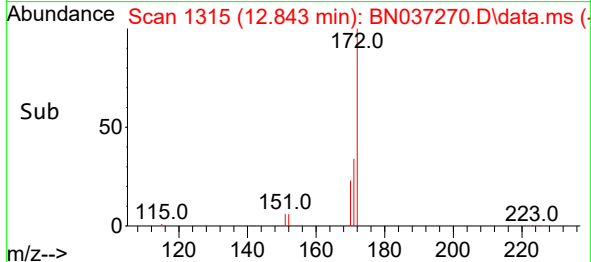
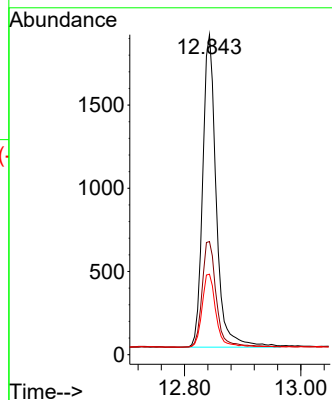
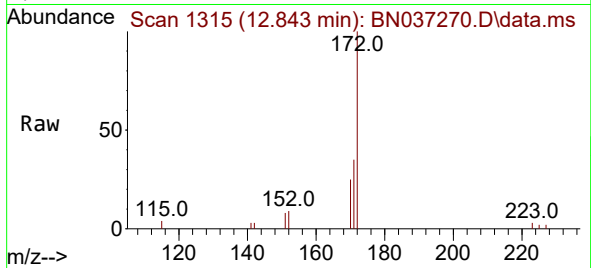




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

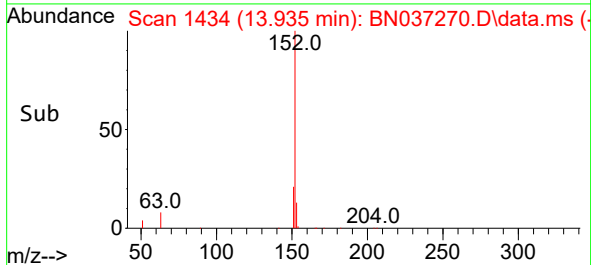
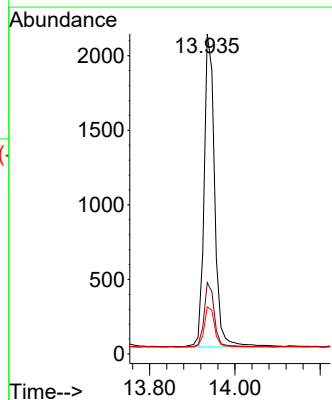
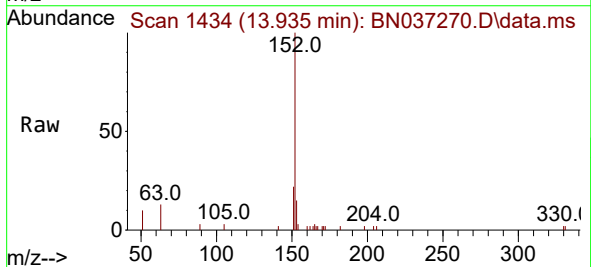
Instrument :
BNA_N
ClientSampleId :
PB168458BS

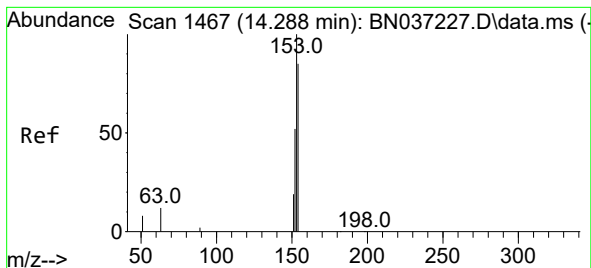
Tgt Ion:172 Resp: 3044
Ion Ratio Lower Upper
172 100
171 35.4 29.8 44.8
170 25.1 21.1 31.7



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:152 Resp: 3608
Ion Ratio Lower Upper
152 100
151 19.7 15.7 23.5
153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.346 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

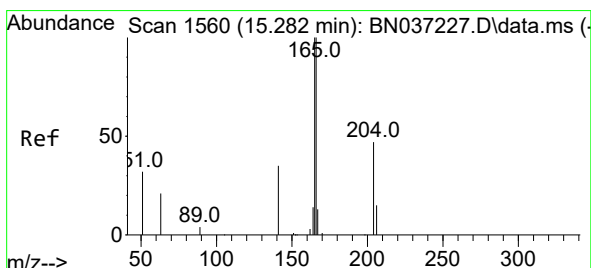
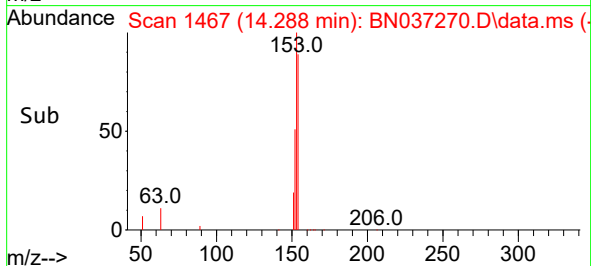
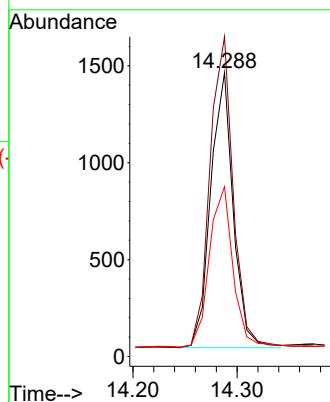
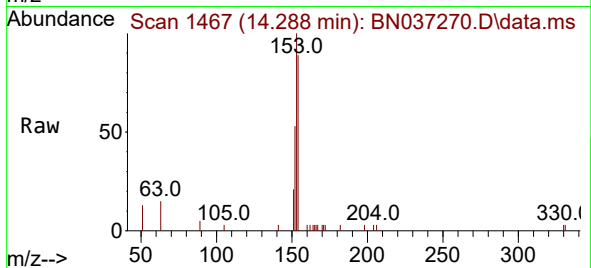
Tgt Ion:154 Resp: 2128

Ion Ratio Lower Upper

154 100

153 116.9 94.6 141.8

152 61.9 49.6 74.4



#18

Fluorene

Concen: 0.354 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

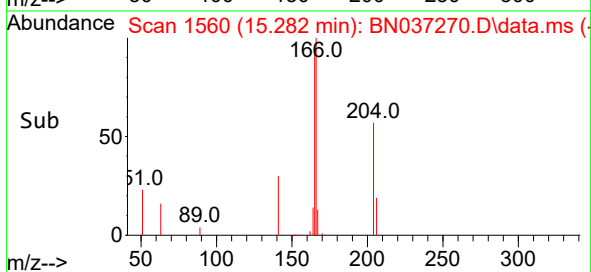
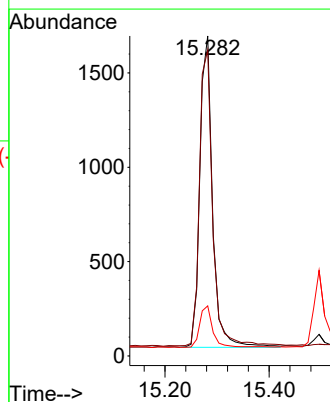
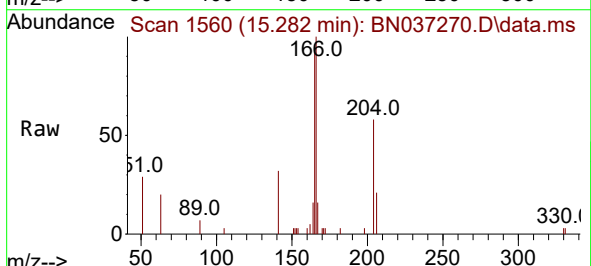
Tgt Ion:166 Resp: 2799

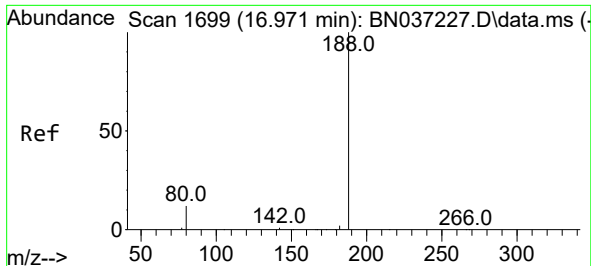
Ion Ratio Lower Upper

166 100

165 98.9 79.8 119.6

167 13.6 10.8 16.2

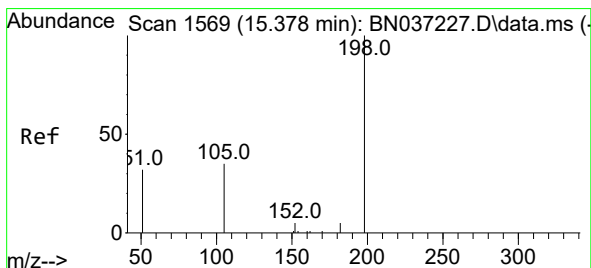
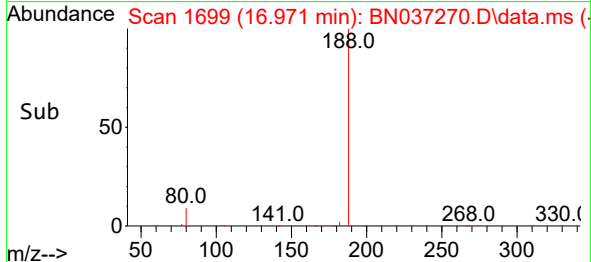
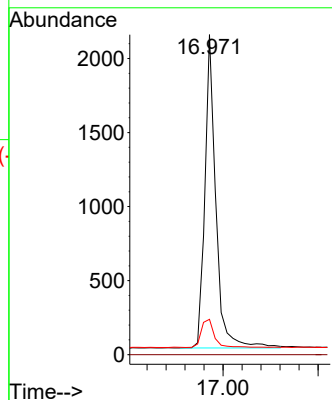
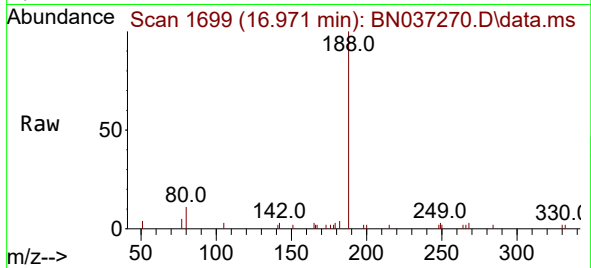




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

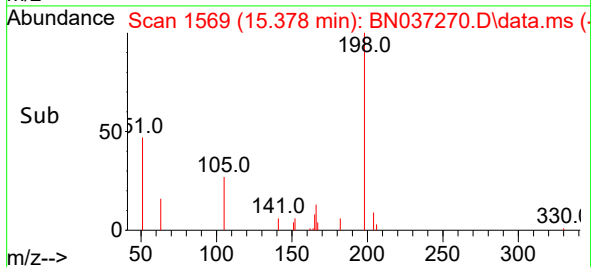
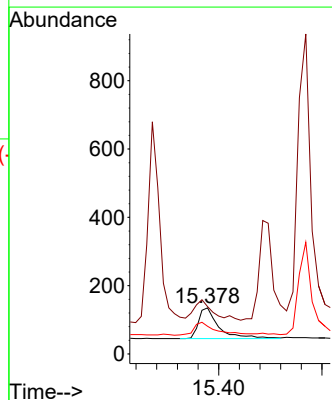
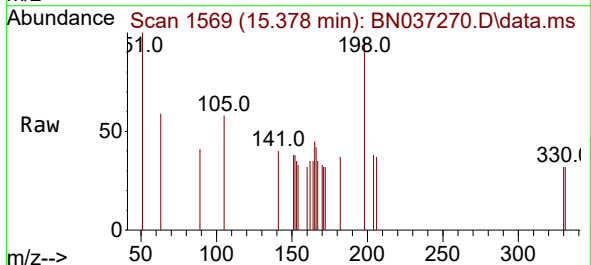
Instrument :
BNA_N
ClientSampleId :
PB168458BS

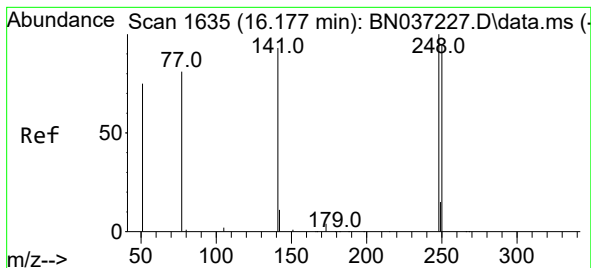
Tgt Ion:188 Resp: 3410
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.1 12.2 18.4#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:198 Resp: 248
Ion Ratio Lower Upper
198 100
51 103.0 111.2 166.8#
105 60.0 54.0 81.0

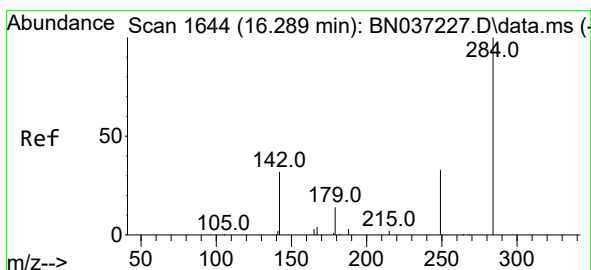
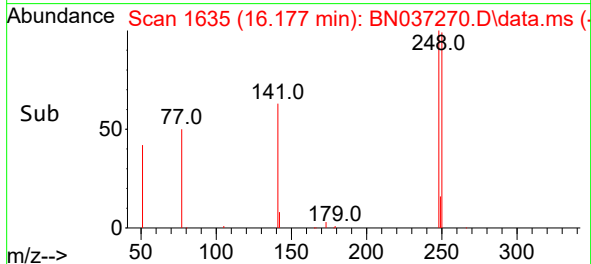
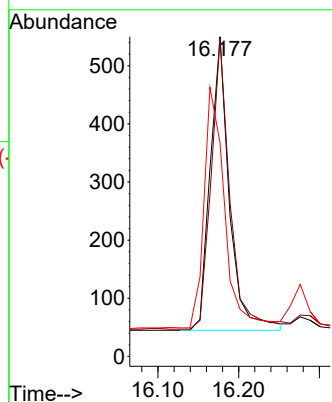
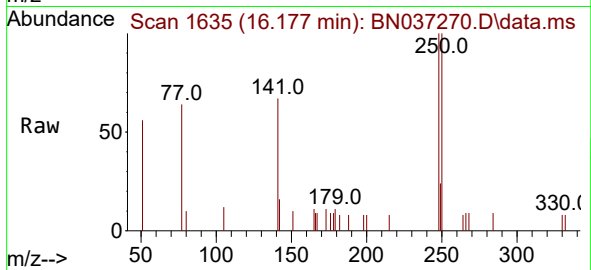




#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

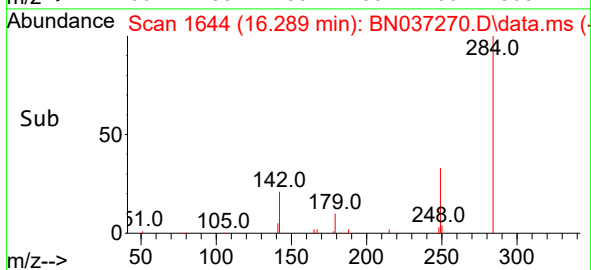
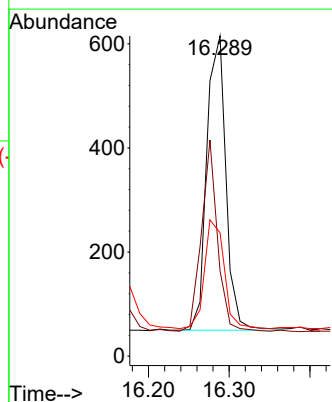
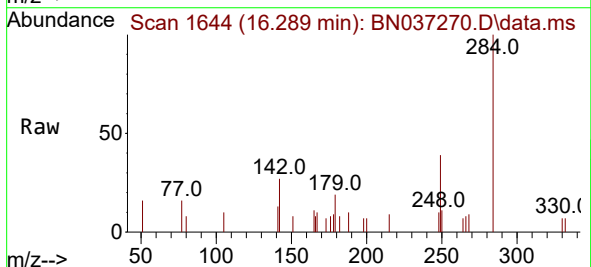
Instrument :
BNA_N
ClientSampleId :
PB168458BS

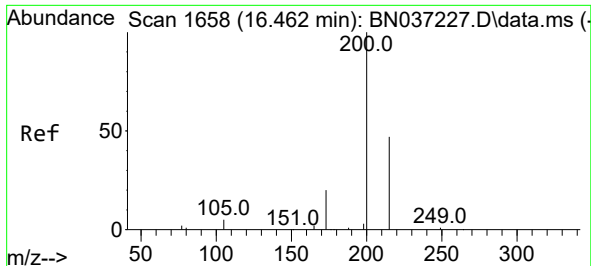
Tgt Ion:248 Resp: 830
Ion Ratio Lower Upper
248 100
250 99.6 76.8 115.2
141 66.7 75.6 113.4#



#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:284 Resp: 927
Ion Ratio Lower Upper
284 100
142 54.5 43.8 65.6
249 38.4 28.4 42.6

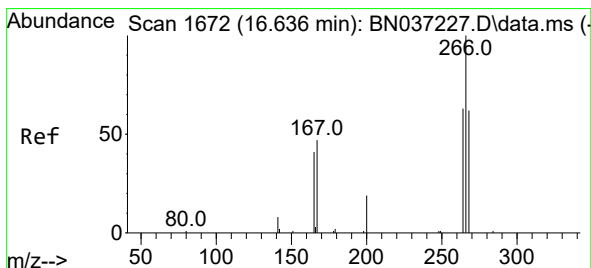
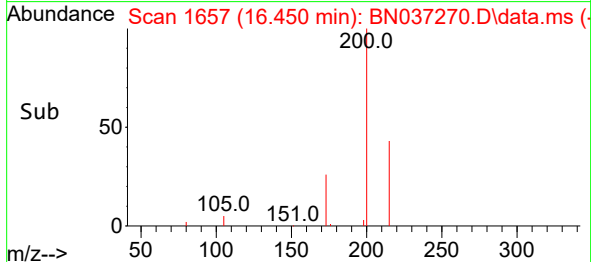
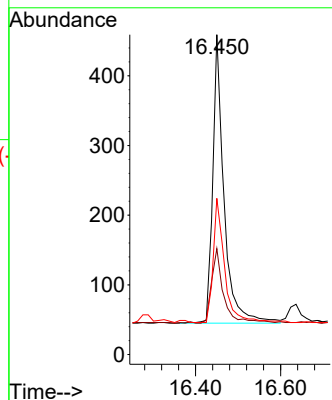
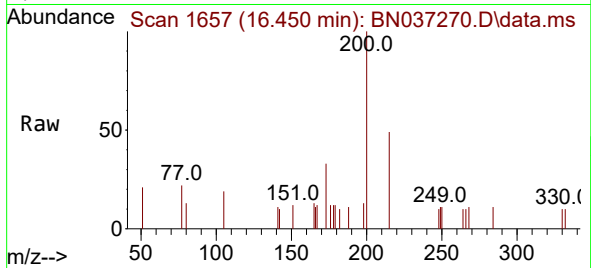




#23
 Atrazine
 Concen: 0.383 ng
 RT: 16.450 min Scan# 1657
 Delta R.T. -0.012 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

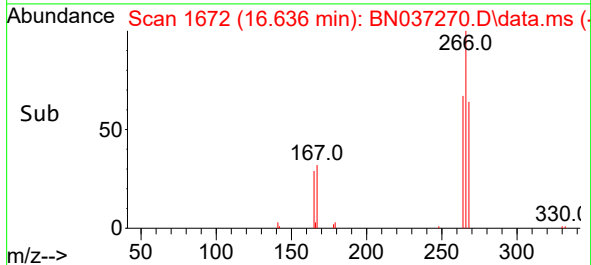
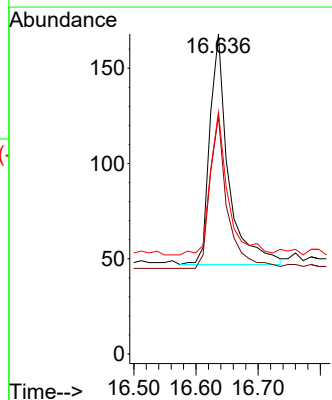
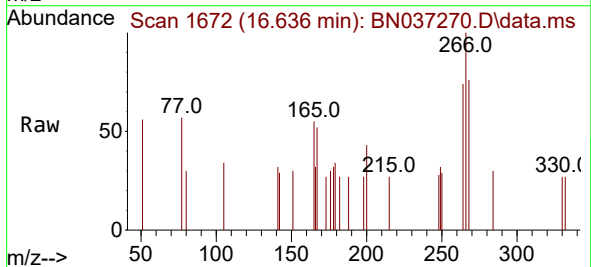
Instrument :
 BNA_N
 ClientSampleId :
 PB168458BS

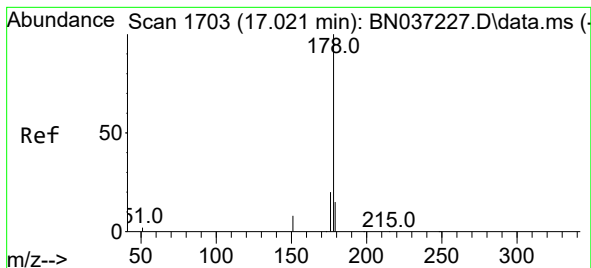
Tgt Ion:200 Resp: 760
 Ion Ratio Lower Upper
 200 100
 173 33.1 25.1 37.7
 215 48.8 43.7 65.5



#24
 Pentachlorophenol
 Concen: 0.200 ng
 RT: 16.636 min Scan# 1672
 Delta R.T. 0.000 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

Tgt Ion:266 Resp: 252
 Ion Ratio Lower Upper
 266 100
 264 61.9 49.2 73.8
 268 58.7 53.4 80.2





#25

Phenanthrene

Concen: 0.364 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.012 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

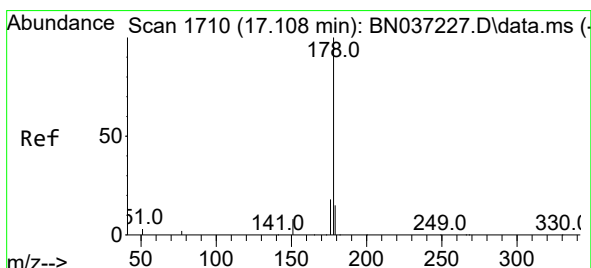
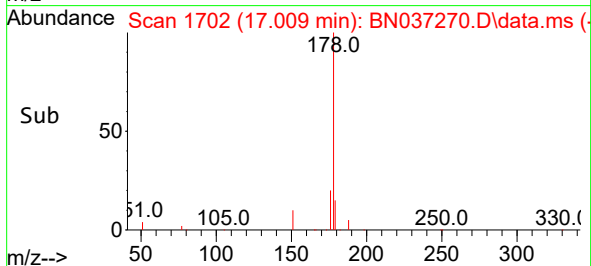
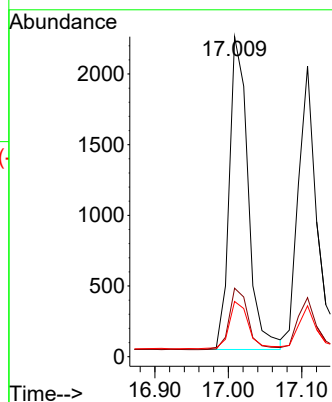
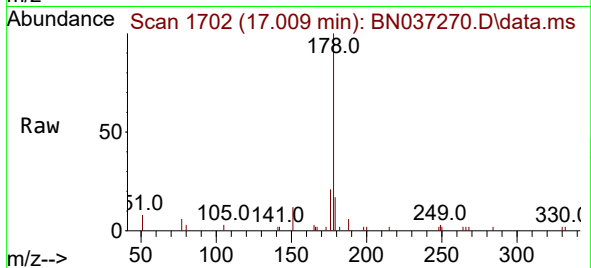
Tgt Ion:178 Resp: 3936

Ion Ratio Lower Upper

178 100

176 19.8 16.3 24.5

179 15.9 12.6 18.8



#26

Anthracene

Concen: 0.373 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

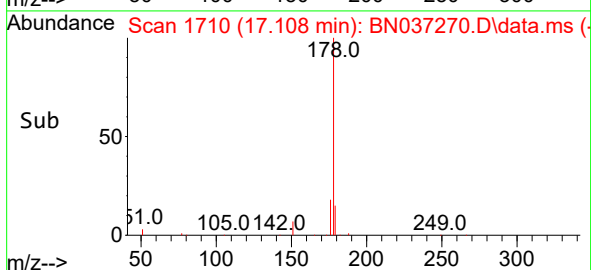
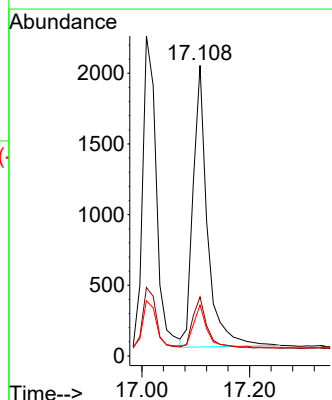
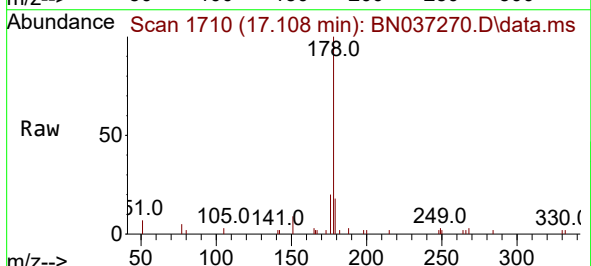
Tgt Ion:178 Resp: 3696

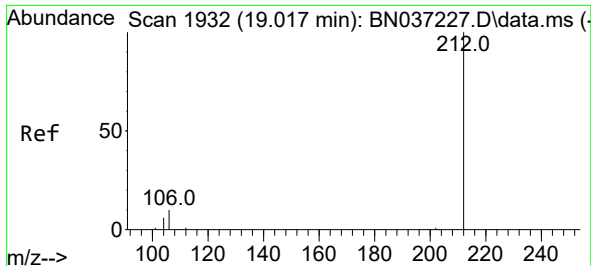
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 14.5 12.4 18.6

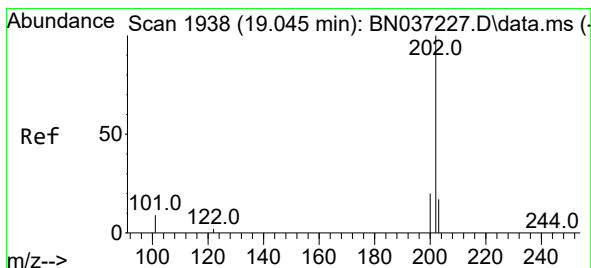
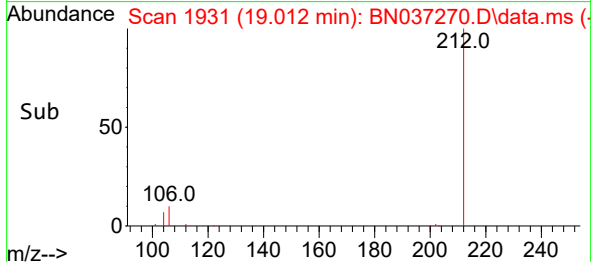
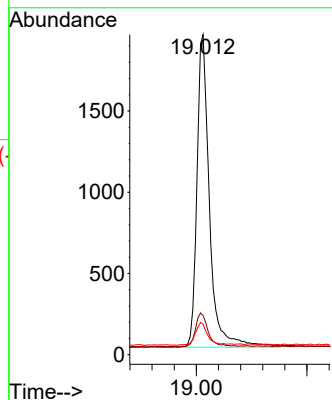
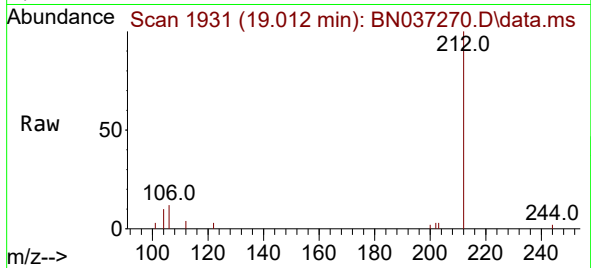




#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.012 min Scan# 1932
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

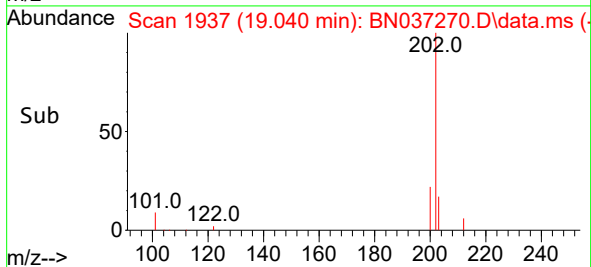
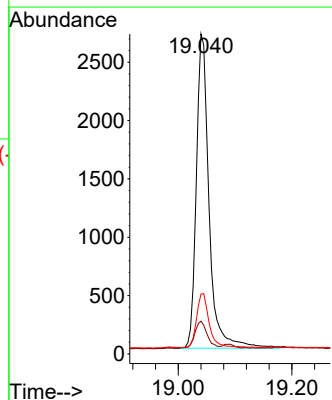
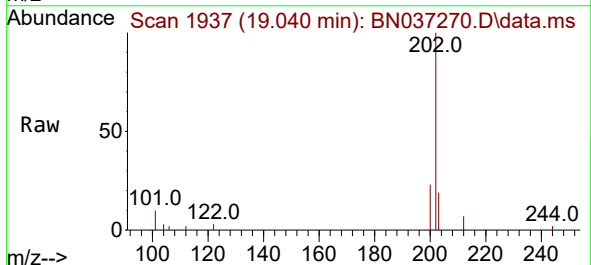
Instrument :
BNA_N
ClientSampleId :
PB168458BS

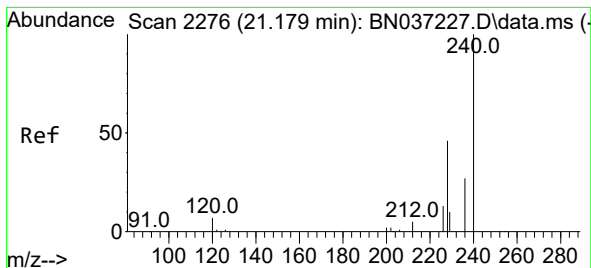
Tgt Ion:212 Resp: 3035
Ion Ratio Lower Upper
212 100
106 10.8 9.3 13.9
104 7.3 5.7 8.5



#28
Fluoranthene
Concen: 0.331 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:202 Resp: 4192
Ion Ratio Lower Upper
202 100
101 8.3 7.1 10.7
203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

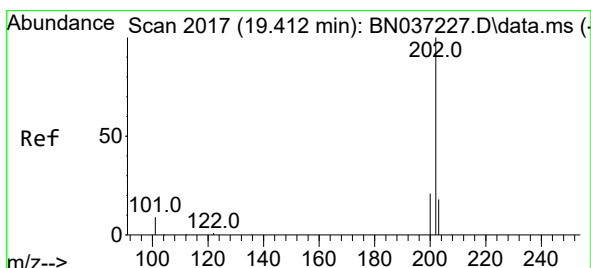
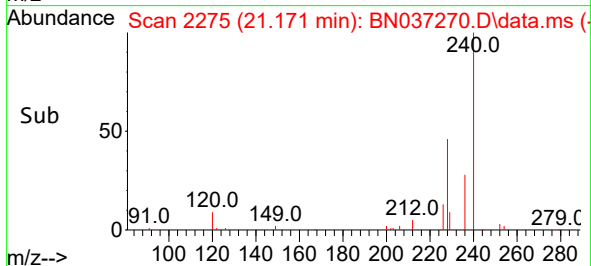
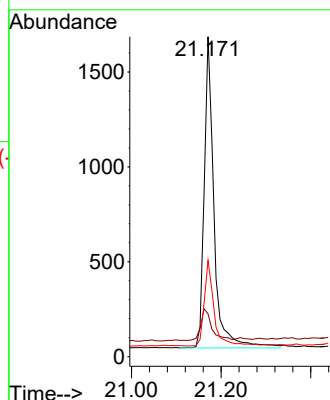
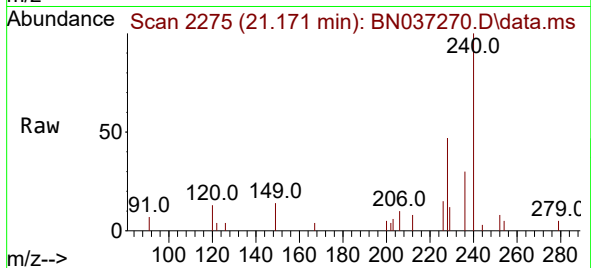
Tgt Ion:240 Resp: 2495

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

236 30.0 24.4 36.6



#30

Pyrene

Concen: 0.368 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

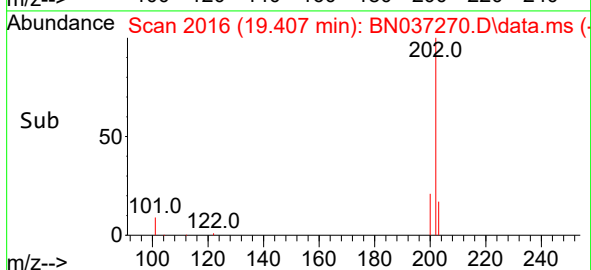
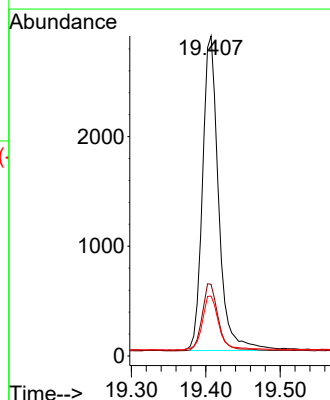
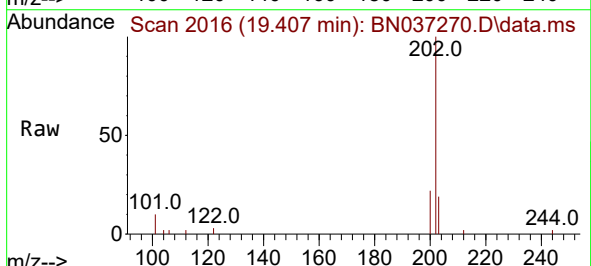
Tgt Ion:202 Resp: 4321

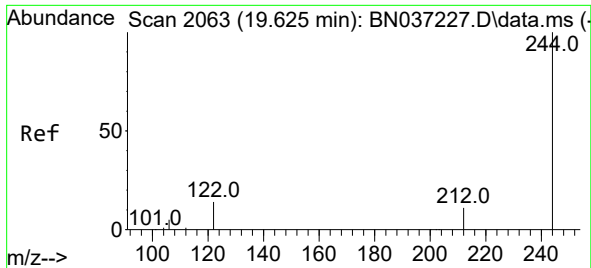
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 18.0 14.3 21.5

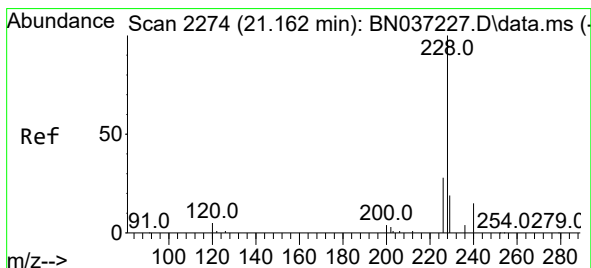
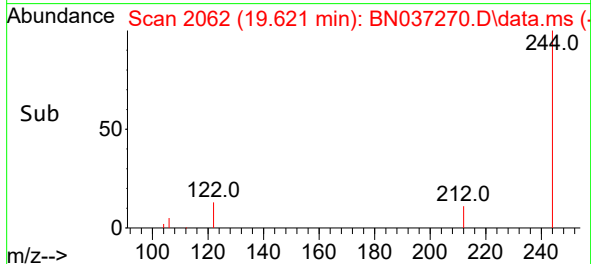
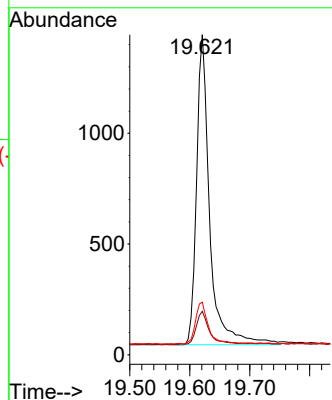
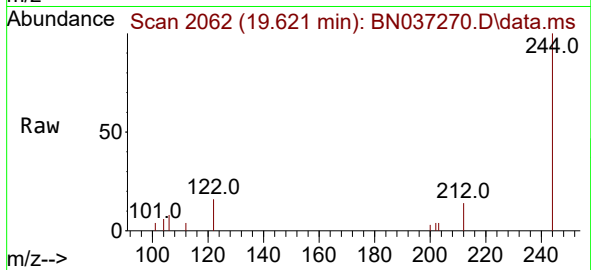




#31
 Terphenyl-d14
 Concen: 0.378 ng
 RT: 19.621 min Scan# 2062
 Delta R.T. -0.005 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

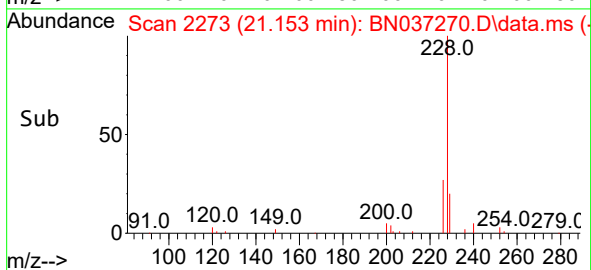
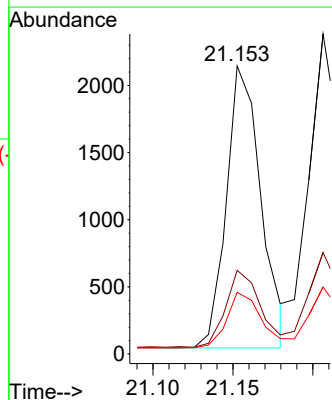
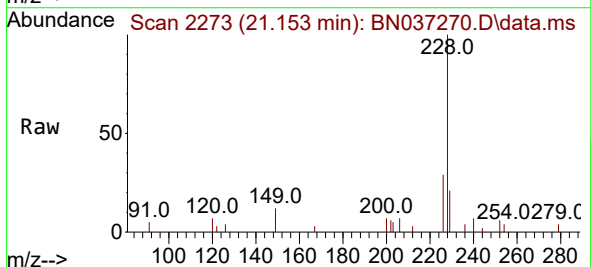
Instrument :
 BNA_N
 ClientSampleId :
 PB168458BS

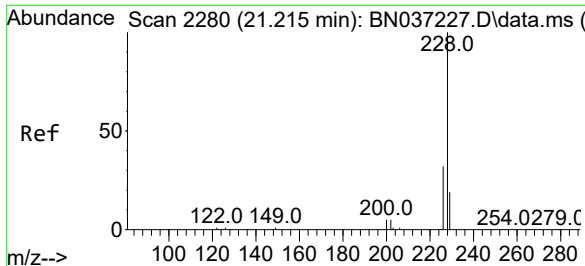
Tgt Ion:244 Resp: 2131
 Ion Ratio Lower Upper
 244 100
 212 13.6 12.2 18.2
 122 16.4 14.3 21.5



#32
 Benzo(a)anthracene
 Concen: 0.375 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN037270.D
 Acq: 14 Jun 2025 20:00

Tgt Ion:228 Resp: 3158
 Ion Ratio Lower Upper
 228 100
 226 29.1 23.8 35.8
 229 21.4 17.0 25.4





#33

Chrysene

Concen: 0.369 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

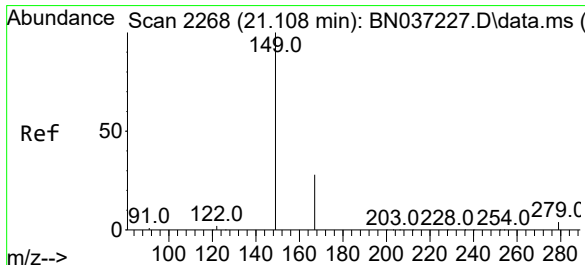
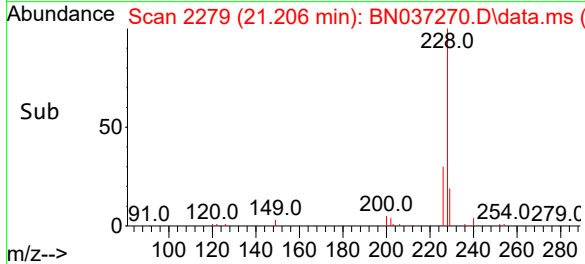
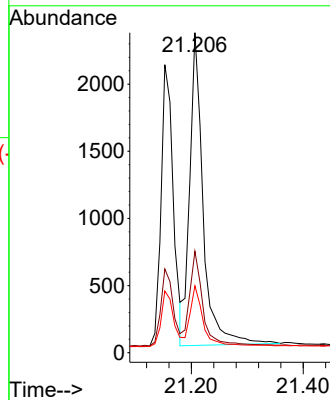
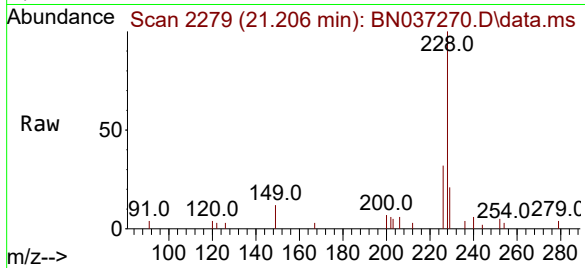
Tgt Ion:228 Resp: 3873

Ion Ratio Lower Upper

228 100

226 31.7 25.8 38.6

229 20.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.373 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

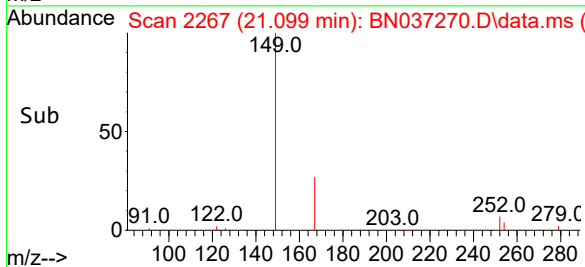
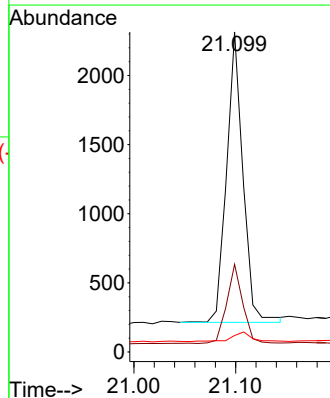
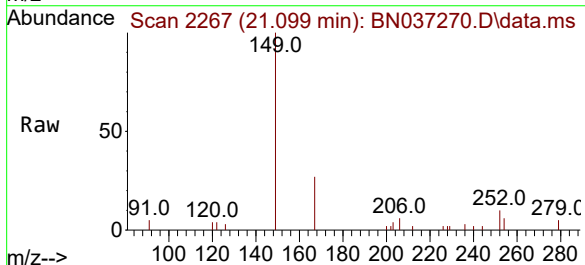
Tgt Ion:149 Resp: 2339

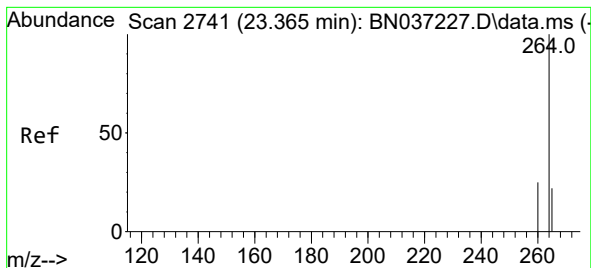
Ion Ratio Lower Upper

149 100

167 26.5 21.3 31.9

279 3.8 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

ClientSampleId :

PB168458BS

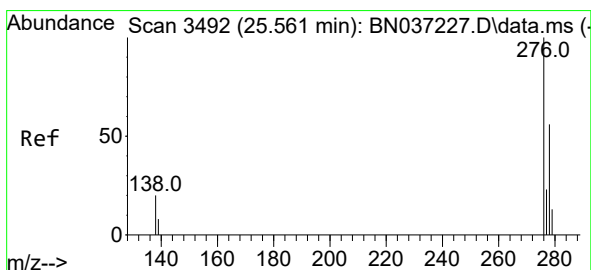
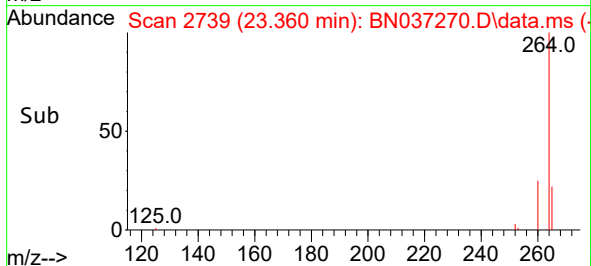
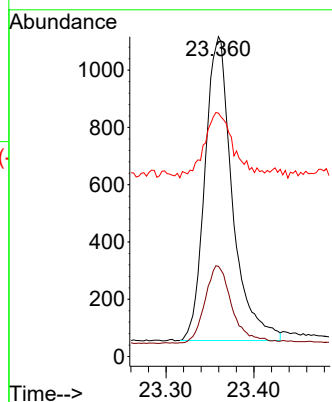
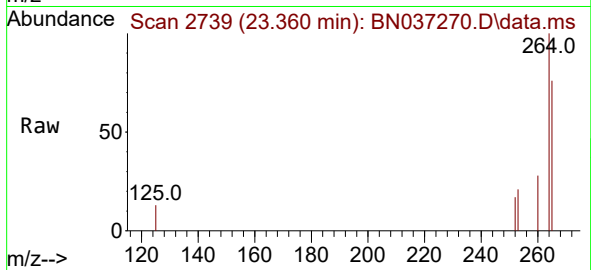
Tgt Ion:264 Resp: 2298

Ion Ratio Lower Upper

264 100

260 28.2 22.8 34.2

265 76.1 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.400 ng

RT: 25.544 min Scan# 3486

Delta R.T. -0.017 min

Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

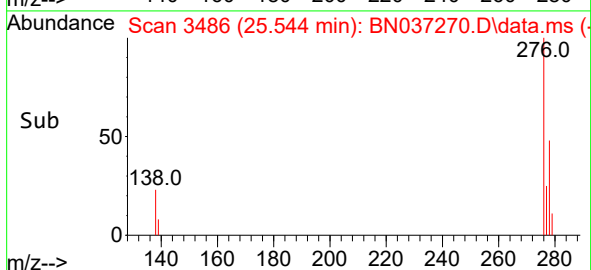
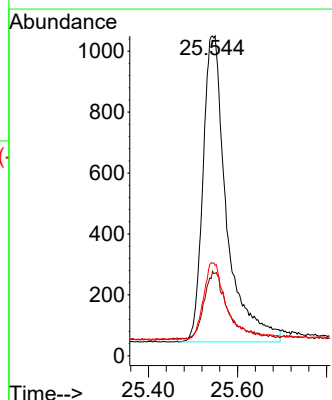
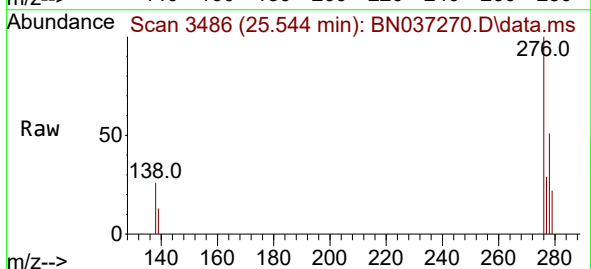
Tgt Ion:276 Resp: 3705

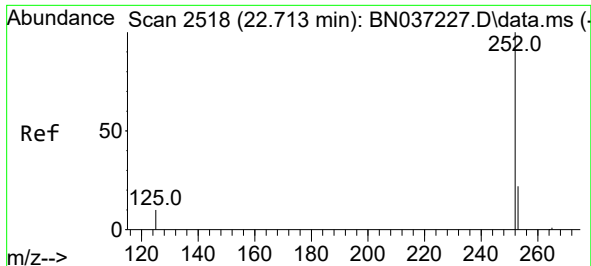
Ion Ratio Lower Upper

276 100

138 21.3 16.8 25.2

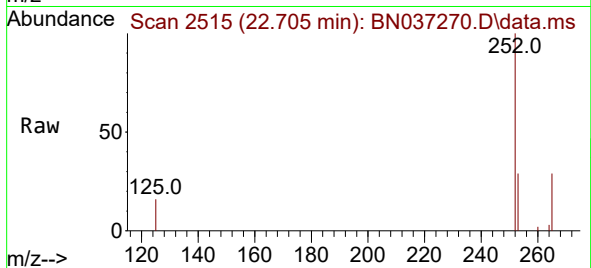
277 24.4 19.5 29.3



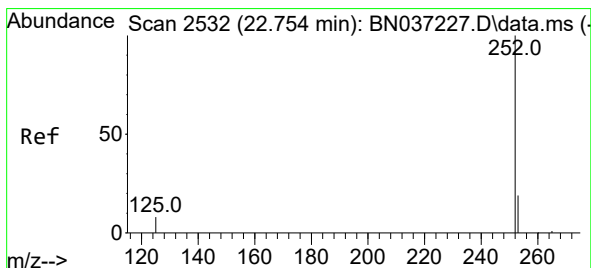
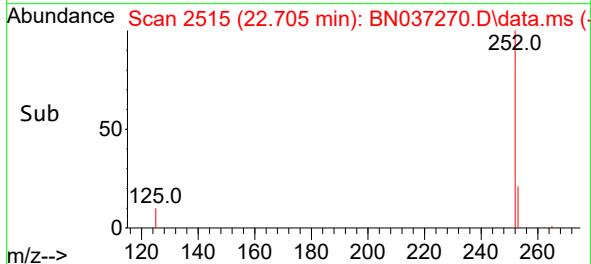
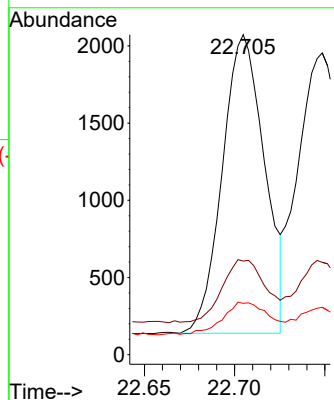


#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.705 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

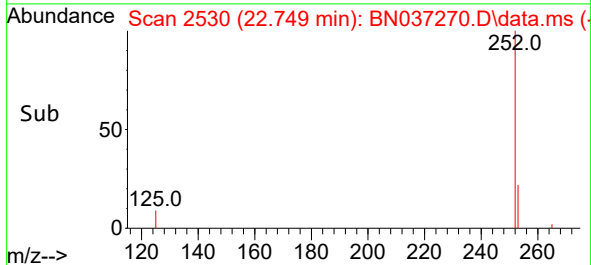
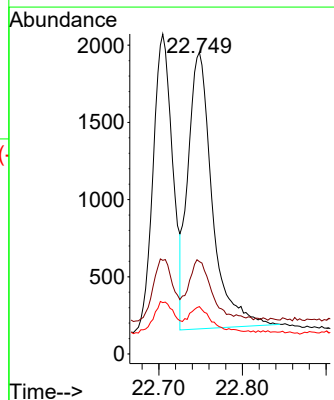
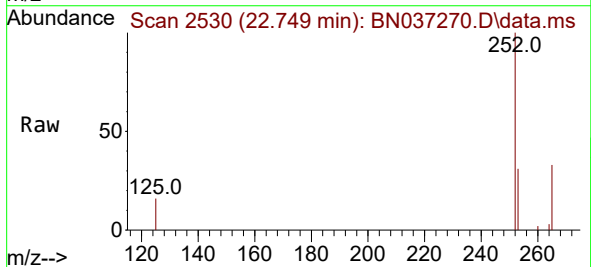


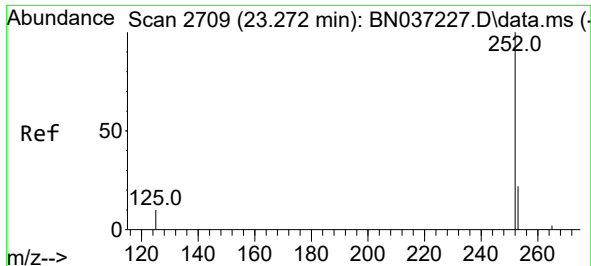
Tgt Ion:252 Resp: 3140
Ion Ratio Lower Upper
252 100
253 29.2 24.9 37.3
125 16.1 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Tgt Ion:252 Resp: 3614
Ion Ratio Lower Upper
252 100
253 30.6 24.6 37.0
125 15.7 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037270.D

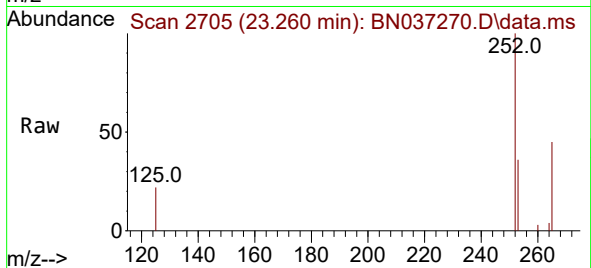
Acq: 14 Jun 2025 20:00

Instrument :

BNA_N

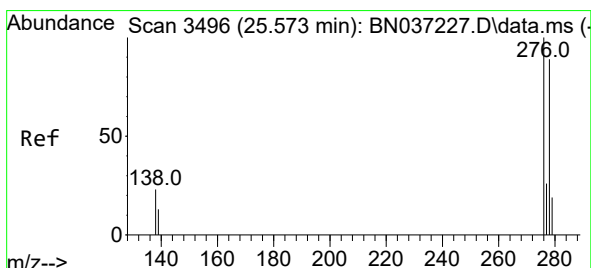
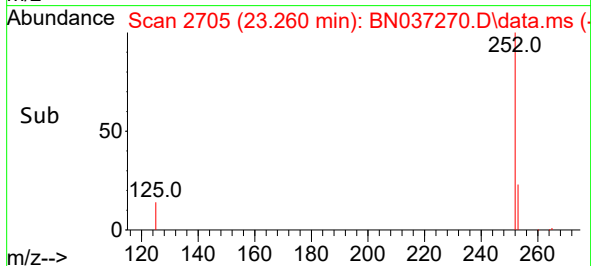
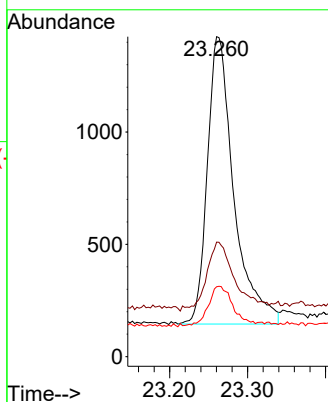
ClientSampleId :

PB168458BS



Tgt Ion:252 Resp: 3030

Ion	Ratio	Lower	Upper
252	100		
253	35.8	29.4	44.2
125	21.8	16.2	24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.398 ng

RT: 25.558 min Scan# 3491

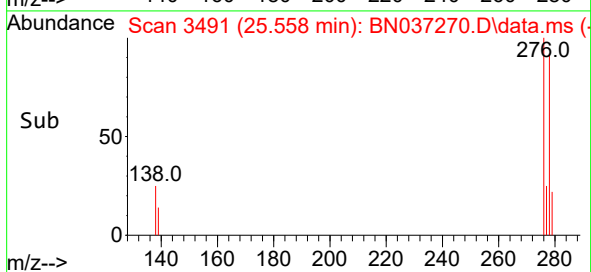
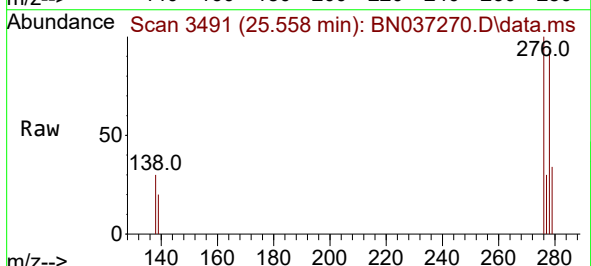
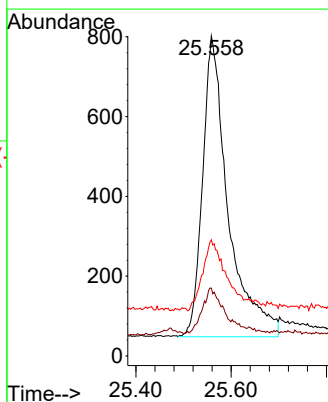
Delta R.T. -0.015 min

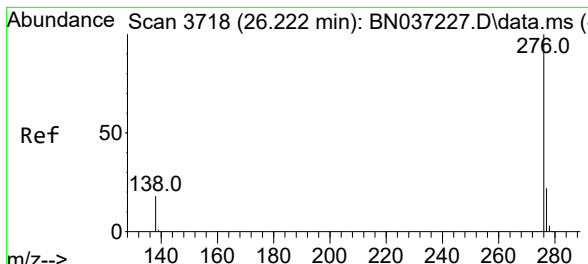
Lab File: BN037270.D

Acq: 14 Jun 2025 20:00

Tgt Ion:278 Resp: 2809

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.6
279	36.3	31.3	46.9





#41
Benzo(g,h,i)perylene
Concen: 0.370 ng
RT: 26.210 min Scan# 31
Delta R.T. -0.012 min
Lab File: BN037270.D
Acq: 14 Jun 2025 20:00

Instrument :
BNA_N
ClientSampleId :
PB168458BS

Tgt Ion:	276	Resp:	3183
Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.0	33.0
138	24.3	18.4	27.6

