

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

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

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q1531

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Order ID : Q1531

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q1531-01
Q1531-02
Q1531-03
Q1531-04
Q1531-05
Q1531-06
Q1531-07
Q1531-08
Q1531-09
Q1531-10
Q1531-11
Q1531-12
Q1531-13
Q1531-14
Q1531-15
Q1531-16
Q1531-17
Q1531-18
Q1531-19
Q1531-20
Q1531-21

Client Sample Number

RE122D2-20250305
RE122D3-20250305
RE122D1-20250305
RE126D1-20250306
RE126D2-20250306
DUP01-20250306
RE103D1-20250306
RE103D1-20250306MS
RE103D1-20250306MSD
RE103D3-20250306
RE103D2-20250306
RE108D2-20250306
RE108D1-20250306
RE105D1-20250306
RE105D2-20250306
RE125D1-20250307
RE125D2-20250307
FB01
RE104D2-20250307
RE104D3-20250307
TB

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: 3/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Chemtech Project # Q1531

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

21 Water samples were received on 03/07/2025.

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, PB167057BS [2-Fluorobiphenyl - 113%], RE126D2-20250306 [Terphenyl-d14 - 135%], DUP01-20250306 [Terphenyl-d14 - 149%], RE103D1-20250306 [Terphenyl-d14 - 257%], RE103D1-20250306DL [Terphenyl-d14 - 228%], RE103D2-20250306 [Terphenyl-d14 - 206%], RE108D2-20250306 [Terphenyl-d14 - 160%], RE105D1-20250306 [Terphenyl-d14 - 155%], RE105D2-20250306 [Terphenyl-d14 - 197%], RE105D2-20250306DL [Terphenyl-d14 - 206%] and RE104D2-20250307 [Terphenyl-d14 - 136%]. Failed surrogates are not associated with DOD, Therefore no further corrective action was required.

The Internal Standards Areas met the acceptable requirements except for PB167057BS. Failed Internal Standards are not associated with client parameter list, Therefore no further corrective action was required.

The Retention Times were acceptable for all samples.

The MS {Q1531-08MS} with File ID: BN036579.D recoveries met the requirements for all compounds except for 1,4-Dioxane[171%] Recovery failed due to matrix interference, Therefore no corrective action was taken.

The MSD recoveries met the acceptable requirements.

The RPD for {Q1531-09MSD} with File ID: BN036580.D met criteria except for 1,4-Dioxane[54%] due to difference in results of MS and MSD.

The sample # RE103D1-20250306MS and RE103D1-20250306MSD is failing for 1,4-Dioxane and the original sample(RE103D1-20250306) is reported with M flag for this compound.

The Blank Spike met requirements for all sample.

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 RE103D1-20250306, RE105D2-20250306, RE125D1-20250307 and RE125D2-20250307 were diluted due to high concentrations.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

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.



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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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

CHEMTECH PROJECT NUMBER: Q1531

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 PB167057BS [2-Fluorobiphenyl - 113%], RE126D2-20250306 [Terphenyl-d14 - 135%], DUP01-20250306 [Terphenyl-d14 - 149%], RE103D1-20250306 [Terphenyl-d14 - 257%], RE103D1-20250306DL [Terphenyl-d14 - 228%], RE103D2-20250306 [Terphenyl-d14 - 206%], RE108D2-20250306 [Terphenyl-d14 - 160%], RE105D1-20250306 [Terphenyl-d14 - 155%], RE105D2-20250306 [Terphenyl-d14 - 197%], RE105D2-20250306DL [Terphenyl-d14 - 206%] and RE104D2-20250307 [Terphenyl-d14 - 136%]. Failed surrogates are not associated with DOD, Therefore no corrective action was required.			

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 {Q1531-08MS} with File ID: BN036579.D recoveries met the requirements for all compounds except for 1,4-Dioxane[171%] Recovery failed due to matrix interference, Therefore no corrective action was taken.			
	The MSD recoveries met the acceptable requirements.			
	The Blank Spike met requirements for all samples .			
	The RPD for {Q1531-09MSD} with File ID: BN036580.D met criteria except for 1,4-Dioxane[54%] due to difference in results of MS and MSD.			
	The sample # RE103D1-20250306MS and RE103D1-20250306MSD is failing for 1,4-Dioxane and the original sample(RE103D1-20250306) is reported with M flag for this compound.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments: The Internal Standards Areas met the acceptable requirements except for PB167057BS. Failed Internal Standards are not associated with client parameter list , Therefore no further corrective action was taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples RE103D1-20250306, RE105D2-20250306, RE125D1-20250307 and RE125D2-20250307 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 #: Q1531

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: 03/20/2025

LAB CHRONICLE

OrderID:	Q1531	OrderDate:	3/7/2025 2:28:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1531-01	RE122D2-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/10/25	03/11/25	03/07/25
Q1531-02	RE122D3-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/10/25	03/11/25	03/07/25
Q1531-03	RE122D1-20250305	Water	SVOC-SIMGroup1	8270-Modified	03/05/25	03/10/25	03/10/25	03/07/25
Q1531-04	RE126D1-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/10/25	03/07/25
Q1531-05	RE126D2-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/10/25	03/07/25
Q1531-06	DUP01-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/10/25	03/07/25
Q1531-07	RE103D1-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/11/25	03/07/25
Q1531-07DL	RE103D1-20250306DL	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/11/25	03/07/25
Q1531-10	RE103D3-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/12/25	03/07/25
Q1531-11	RE103D2-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/11/25	03/07/25
Q1531-12	RE108D2-20250306	Water	SVOC-SIMGroup1	8270-Modified	03/06/25	03/10/25	03/11/25	03/07/25

LAB CHRONICLE

Q1531-13	RE108D1-20250306	Water			03/06/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-14	RE105D1-20250306	Water			03/06/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/10/25	
Q1531-15	RE105D2-20250306	Water			03/06/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-15DL	RE105D2-20250306D L	Water			03/06/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-16	RE125D1-20250307	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-16DL	RE125D1-20250307D L	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-17	RE125D2-20250307	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-17DL	RE125D2-20250307D L	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-18	FB01	Water			03/06/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/11/25	
Q1531-19	RE104D2-20250307	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	
Q1531-20	RE104D3-20250307	Water			03/07/25			03/07/25
			SVOC-SIMGroup1	8270-Modified		03/10/25	03/12/25	

Hit Summary Sheet SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE122D2-20250305								
Q1531-01	RE122D2-20250305	WATER	1,4-Dioxane	4.500		0.07	0.2	0.2	ug/L
			Total Svoc :			4.50			
			Total Concentration:			4.50			
Client ID :	RE122D1-20250305								
Q1531-03	RE122D1-20250305	WATER	1,4-Dioxane	4.100		0.07	0.2	0.2	ug/L
			Total Svoc :			4.10			
			Total Concentration:			4.10			
Client ID :	RE126D1-20250306								
Q1531-04	RE126D1-20250306	WATER	1,4-Dioxane	3.400		0.07	0.2	0.2	ug/L
			Total Svoc :			3.40			
			Total Concentration:			3.40			
Client ID :	RE126D2-20250306								
Q1531-05	RE126D2-20250306	WATER	1,4-Dioxane	4.300		0.07	0.22	0.22	ug/L
			Total Svoc :			4.30			
			Total Concentration:			4.30			
Client ID :	DUP01-20250306								
Q1531-06	DUP01-20250306	WATER	1,4-Dioxane	3.900		0.07	0.21	0.21	ug/L
			Total Svoc :			3.90			
			Total Concentration:			3.90			
Client ID :	RE103D1-20250306								
Q1531-07	RE103D1-20250306	WATER	1,4-Dioxane	6.500	EM	0.07	0.21	0.21	ug/L
			Total Svoc :			6.50			
			Total Concentration:			6.50			
Client ID :	RE103D1-20250306DL								
Q1531-07DL	RE103D1-20250306DL	WATER	1,4-Dioxane	6.100	D	0.14	0.42	0.42	ug/L
			Total Svoc :			6.10			
			Total Concentration:			6.10			
Client ID :	RE103D2-20250306								
Q1531-11	RE103D2-20250306	WATER	1,4-Dioxane	0.480		0.07	0.21	0.21	ug/L
			Total Svoc :			0.48			
			Total Concentration:			0.48			
Client ID :	RE108D2-20250306								
Q1531-12	RE108D2-20250306	WATER	1,4-Dioxane	2.700		0.07	0.2	0.2	ug/L
			Total Svoc :			2.70			

Hit Summary Sheet SW-846

SDG No.: Q1531
Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	2.70					
Client ID :	RE108D1-20250306								
Q1531-13	RE108D1-20250306	WATER	1,4-Dioxane	3.300		0.07	0.2	0.2	ug/L
			Total Svoc :	3.30					
			Total Concentration:	3.30					
Client ID :	RE105D1-20250306								
Q1531-14	RE105D1-20250306	WATER	1,4-Dioxane	4.800		0.07	0.21	0.21	ug/L
			Total Svoc :	4.80					
			Total Concentration:	4.80					
Client ID :	RE105D2-20250306								
Q1531-15	RE105D2-20250306	WATER	1,4-Dioxane	5.600	E	0.07	0.2	0.2	ug/L
			Total Svoc :	5.60					
			Total Concentration:	5.60					
Client ID :	RE105D2-20250306DL								
Q1531-15DL	RE105D2-20250306DL	WATER	1,4-Dioxane	6.000	D	0.14	0.4	0.4	ug/L
			Total Svoc :	6.00					
			Total Concentration:	6.00					
Client ID :	RE125D1-20250307								
Q1531-16	RE125D1-20250307	WATER	1,4-Dioxane	6.200	E	0.07	0.21	0.21	ug/L
			Total Svoc :	6.20					
			Total Concentration:	6.20					
Client ID :	RE125D1-20250307DL								
Q1531-16DL	RE125D1-20250307DL	WATER	1,4-Dioxane	6.500	D	0.15	0.42	0.42	ug/L
			Total Svoc :	6.50					
			Total Concentration:	6.50					
Client ID :	RE125D2-20250307								
Q1531-17	RE125D2-20250307	WATER	1,4-Dioxane	9.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :	9.20					
			Total Concentration:	9.20					
Client ID :	RE125D2-20250307DL								
Q1531-17DL	RE125D2-20250307DL	WATER	1,4-Dioxane	8.400	D	0.35	1	1	ug/L
			Total Svoc :	8.40					
			Total Concentration:	8.40					
Client ID :	RE104D2-20250307								
Q1531-19	RE104D2-20250307	WATER	1,4-Dioxane	2.300		0.07	0.2	0.2	ug/L
			Total Svoc :	2.30					

Hit Summary Sheet
SW-846

SDG No.: Q1531
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
		Total Concentration:			2.30			

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QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167057BL	PB167057BL	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.23	58		53	106
		Terphenyl-d14	0.4	0.43	108		58	132
PB167057BS	PB167057BS	2-Methylnaphthalene-d10	0.4	0.53	132		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1531-01	RE122D2-20250305	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.53	131		58	132
Q1531-02	RE122D3-20250305	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	74		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
Q1531-03	RE122D1-20250305	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.46	116		58	132
Q1531-04	RE126D1-20250306	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1531-05	RE126D2-20250306	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
Q1531-06	DUP01-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.60	149	*	58	132
Q1531-07	RE103D1-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	1.03	257	*	58	132
Q1531-07DL	RE103D1-20250306DL	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.91	228	*	58	132
Q1531-08MS	RE103D1-20250306MS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150

Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1531-08MS	RE103D1-20250306MS	Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.48	121		58	132
Q1531-09MSD	RE103D1-20250306MSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
Q1531-10	RE103D3-20250306	Terphenyl-d14	0.4	0.49	122		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
Q1531-11	RE103D2-20250306	2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
		2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
Q1531-12	RE108D2-20250306	Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.82	206	*	58	132
		2-Methylnaphthalene-d10	0.4	0.32	80		30	150
Q1531-13	RE108D1-20250306	Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
Q1531-14	RE105D1-20250306	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
Q1531-15	RE105D2-20250306	Terphenyl-d14	0.4	0.49	123		58	132
		2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
Q1531-15DL	RE105D2-20250306DL	2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
		2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
Q1531-16	RE125D1-20250307	Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.79	197	*	58	132
		2-Methylnaphthalene-d10	0.4	0.37	91		30	150
Q1531-16DL	RE125D1-20250307DL	Fluoranthene-d10	0.4	0.48	120		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.82	206	*	58	132
Q1531-16DL	RE125D1-20250307DL	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
Q1531-16DL	RE125D1-20250307DL	Terphenyl-d14	0.4	0.45	113		58	132
		2-Methylnaphthalene-d10	0.4	0.32	80		30	150
Q1531-16DL	RE125D1-20250307DL	Fluoranthene-d10	0.4	0.47	118		30	150

Surrogate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1531-16DL	RE125D1-20250307DL	Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1531-17	RE125D2-20250307	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
Q1531-17DL	RE125D2-20250307DL	2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.26	64		53	106
Q1531-18	FB01	Terphenyl-d14	0.4	0.49	123		58	132
		2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1531-19	RE104D2-20250307	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.54	136	*	58	132
Q1531-20	RE104D3-20250307	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.47	116		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.50	125		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1531

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: Q1531-08MS		Client Sample ID: RE103D1-20250306MS									
1,4-Dioxane	0.41	6.50	7.20	ug/L	171	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1531

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: Q1531-09MSD		Client Sample ID: RE103D1-20250306MSD						DataFile: BN036580.D			
1,4-Dioxane	0.41	6.50	6.90	ug/L	98		54	*	70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1531

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN036588.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167057BS	1,4-Dioxane	0.4	0.40	ug/L	100				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167057BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q1531

SAS No.: Q1531 SDG NO.: Q1531

Lab File ID: BN036565.D

Lab Sample ID: PB167057BL

Instrument ID: BNA_N

Date Extracted: 03/10/2025

Matrix: (soil/water) Water

Date Analyzed: 03/10/2025

Level: (low/med) LOW

Time Analyzed: 17:14

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE122D1-20250305	Q1531-03	BN036566.D	03/10/2025
RE126D1-20250306	Q1531-04	BN036567.D	03/10/2025
RE126D2-20250306	Q1531-05	BN036568.D	03/10/2025
DUP01-20250306	Q1531-06	BN036569.D	03/10/2025
RE108D1-20250306	Q1531-13	BN036570.D	03/10/2025
RE105D1-20250306	Q1531-14	BN036571.D	03/10/2025
RE122D2-20250305	Q1531-01	BN036576.D	03/11/2025
RE122D3-20250305	Q1531-02	BN036577.D	03/11/2025
RE103D1-20250306	Q1531-07	BN036578.D	03/11/2025
RE103D1-20250306MS	Q1531-08MS	BN036579.D	03/11/2025
RE103D1-20250306MSD	Q1531-09MSD	BN036580.D	03/11/2025
RE103D2-20250306	Q1531-11	BN036582.D	03/11/2025
PB167057BS	PB167057BS	BN036588.D	03/11/2025
RE108D2-20250306	Q1531-12	BN036583.D	03/11/2025
RE105D2-20250306	Q1531-15	BN036584.D	03/11/2025
RE125D1-20250307	Q1531-16	BN036585.D	03/11/2025
RE125D2-20250307	Q1531-17	BN036586.D	03/11/2025
FB01	Q1531-18	BN036587.D	03/11/2025
RE103D3-20250306	Q1531-10	BN036593.D	03/12/2025
RE104D2-20250307	Q1531-19	BN036594.D	03/12/2025
RE104D3-20250307	Q1531-20	BN036595.D	03/12/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1531 SDG NO.: Q1531Lab File ID: BN036556.DDFTPP Injection Date: 03/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19
PB167057BL	PB167057BL	BN036565.D	03/10/2025	17:14
RE122D1-20250305	Q1531-03	BN036566.D	03/10/2025	17:50
RE126D1-20250306	Q1531-04	BN036567.D	03/10/2025	18:26
RE126D2-20250306	Q1531-05	BN036568.D	03/10/2025	19:02
DUP01-20250306	Q1531-06	BN036569.D	03/10/2025	19:38
RE108D1-20250306	Q1531-13	BN036570.D	03/10/2025	20:14
RE105D1-20250306	Q1531-14	BN036571.D	03/10/2025	20:50
SSTDCCC0.4EC	SSTDCCC0.4	BN036572.D	03/10/2025	21:26



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1531SDG NO.: Q1531Lab File ID: BN036573.DDFTPP Injection Date: 03/11/2025Instrument ID: BNA_NDFTPP Injection Time: 08:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	53
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	10.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.4 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036574.D	03/11/2025	10:08
RE122D2-20250305	Q1531-01	BN036576.D	03/11/2025	11:20
RE122D3-20250305	Q1531-02	BN036577.D	03/11/2025	11:56
RE103D1-20250306	Q1531-07	BN036578.D	03/11/2025	12:33
RE103D1-20250306MS	Q1531-08MS	BN036579.D	03/11/2025	13:45
RE103D1-20250306MSD	Q1531-09MSD	BN036580.D	03/11/2025	14:21
RE103D1-20250306DL	Q1531-07DL	BN036581.D	03/11/2025	14:57
RE103D2-20250306	Q1531-11	BN036582.D	03/11/2025	15:32
RE108D2-20250306	Q1531-12	BN036583.D	03/11/2025	16:09
RE105D2-20250306	Q1531-15	BN036584.D	03/11/2025	16:44
RE125D1-20250307	Q1531-16	BN036585.D	03/11/2025	17:21
RE125D2-20250307	Q1531-17	BN036586.D	03/11/2025	17:57
FB01	Q1531-18	BN036587.D	03/11/2025	18:33
PB167057BS	PB167057BS	BN036588.D	03/11/2025	19:09
SSTDCCC0.4EC	SSTDCCC0.4	BN036589.D	03/11/2025	19:46



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q1531 SDG NO.: Q1531Lab File ID: BN036590.DDFTPP Injection Date: 03/12/2025Instrument ID: BNA_NDFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	1 (1.8) 1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53.6
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	7.2
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (20.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036591.D	03/12/2025	09:14
RE103D3-20250306	Q1531-10	BN036593.D	03/12/2025	10:26
RE104D2-20250307	Q1531-19	BN036594.D	03/12/2025	11:02
RE104D3-20250307	Q1531-20	BN036595.D	03/12/2025	11:38
RE105D2-20250306DL	Q1531-15DL	BN036596.D	03/12/2025	12:16
RE125D1-20250307DL	Q1531-16DL	BN036597.D	03/12/2025	12:52
RE125D2-20250307DL	Q1531-17DL	BN036598.D	03/12/2025	13:29
SSTDCCC0.4EC	SSTDCCC0.4	BN036599.D	03/12/2025	14:39

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 03/10/2025

Lab File ID: BN036559.D Time Analyzed: 12:54

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2207	7.724	5091	10.51	3026	14.37
UPPER LIMIT	4414	8.224	10182	11.009	6052	14.866
LOWER LIMIT	1103.5	7.224	2545.5	10.009	1513	13.866
EPA SAMPLE NO.						
01 PB167057BL	2263	7.72	4575	10.53	2489	14.38
02 RE122D1-20250305	1983	7.72	4161	10.52	2568	14.37
03 RE126D1-20250306	1865	7.72	4078	10.52	2447	14.37
04 RE126D2-20250306	2064	7.73	4561	10.52	2745	14.37
05 DUP01-20250306	2291	7.72	4880	10.52	2910	14.37
06 RE108D1-20250306	2186	7.72	4775	10.52	2786	14.37
07 RE105D1-20250306	2032	7.72	4598	10.52	2832	14.37

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.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 03/10/2025

Lab File ID: BN036559.D Time Analyzed: 12:54

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	6005	17.111	4110	21.295	3539	23.554
UPPER LIMIT	12010	17.611	8220	21.795	7078	24.054
LOWER LIMIT	3002.5	16.611	2055	20.795	1769.5	23.054
EPA SAMPLE NO.						
01 PB167057BL	4335	17.12	2994	21.30	2724	23.57
02 RE122D1-20250305	5031	17.11	3465	21.30	2981	23.56
03 RE126D1-20250306	5134	17.11	3745	21.30	3091	23.56
04 RE126D2-20250306	5634	17.11	3902	21.30	3043	23.56
05 DUP01-20250306	5566	17.11	3909	21.30	3415	23.56
06 RE108D1-20250306	5255	17.11	3738	21.30	3210	23.55
07 RE105D1-20250306	5726	17.11	3951	21.30	3259	23.55

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.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/11/2025

Lab File ID: BN036574.D Time Analyzed: 10:08

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	2295	7.724	5467	10.51	3343	14.37
UPPER LIMIT	4590	8.224	10934	11.009	6686	14.866
LOWER LIMIT	1147.5	7.224	2733.5	10.009	1671.5	13.866
EPA SAMPLE NO.						
01 RE122D2-20250305	3302	7.72	7375	10.51	4300	14.37
02 RE122D3-20250305	2163	7.72	4662	10.51	2586	14.37
03 RE103D1-20250306	2056	7.72	4839	10.51	2887	14.37
04 RE103D1-20250306MS	1966	7.72	4554	10.51	2666	14.36
05 RE103D1-20250306MSD	1973	7.72	4547	10.51	2602	14.37
06 PB167057BS	2199	7.72	5061	10.51	2475	14.37
07 RE103D1-20250306DL	2259	7.72	5271	10.52	3220	14.37
08 RE103D2-20250306	2161	7.72	4915	10.51	2930	14.37
09 RE108D2-20250306	1904	7.72	4283	10.51	2637	14.37
10 RE105D2-20250306	1950	7.72	4552	10.51	2777	14.37
11 RE125D1-20250307	2166	7.72	4992	10.51	2872	14.36
12 RE125D2-20250307	2081	7.72	4659	10.51	2830	14.37
13 FB01	1897	7.72	4317	10.52	2633	14.37

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.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/11/2025

Lab File ID: BN036574.D Time Analyzed: 10:08

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	6922	17.111	4977	21.295	4232	23.554
UPPER LIMIT	13844	17.611	9954	21.795	8464	24.054
LOWER LIMIT	3461	16.611	2488.5	20.795	2116	23.054
EPA SAMPLE NO.						
01 RE122D2-20250305	8599	17.11	6414	21.30	5766	23.55
02 RE122D3-20250305	4760	17.11	3526	21.30	3334	23.55
03 RE103D1-20250306	5689	17.11	3805	21.30	2891	23.55
04 RE103D1-20250306MS	5287	17.11	3809	21.30	3096	23.55
05 RE103D1-20250306MSD	5250	17.11	3781	21.30	3038	23.55
06 PB167057BS	4176	17.11	2420 *	21.30	2074 *	23.56
07 RE103D1-20250306DL	6427	17.11	4562	21.30	3613	23.55
08 RE103D2-20250306	5748	17.11	3765	21.30	3253	23.56
09 RE108D2-20250306	5582	17.11	3932	21.30	3177	23.55
10 RE105D2-20250306	5693	17.11	3977	21.30	3124	23.55
11 RE125D1-20250307	5521	17.11	3922	21.30	3017	23.55
12 RE125D2-20250307	5539	17.11	3781	21.30	3024	23.55
13 FB01	5337	17.11	4002	21.30	3149	23.56

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.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/12/2025

Lab File ID: BN036591.D Time Analyzed: 09:14

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	2221	7.717	5304	10.51	3177	14.36
UPPER LIMIT	4442	8.217	10608	11.009	6354	14.855
LOWER LIMIT	1110.5	7.217	2652	10.009	1588.5	13.855
EPA SAMPLE NO.						
01 RE103D3-20250306	1963	7.72	4459	10.51	2879	14.36
02 RE105D2-20250306DL	1963	7.72	4593	10.51	2774	14.37
03 RE125D1-20250307DL	1986	7.72	4780	10.51	2899	14.36
04 RE104D2-20250307	1944	7.72	4249	10.51	2599	14.37
05 RE104D3-20250307	2341	7.72	5174	10.51	3132	14.37
06 RE125D2-20250307DL	2304	7.72	5150	10.52	3131	14.37

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.: Q1531 SAS No.: Q1531 SDG NO.: Q1531

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/12/2025

Lab File ID: BN036591.D Time Analyzed: 09:14

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	6400	17.111	4453	21.295	3635	23.551
UPPER LIMIT	12800	17.611	8906	21.795	7270	24.051
LOWER LIMIT	3200	16.611	2226.5	20.795	1817.5	23.051
EPA SAMPLE NO.						
01 RE103D3-20250306	5114	17.11	3421	21.30	2969	23.55
02 RE105D2-20250306DL	5527	17.11	3876	21.30	3091	23.55
03 RE125D1-20250307DL	5979	17.11	4274	21.30	3192	23.55
04 RE104D2-20250307	5272	17.11	3676	21.30	3141	23.55
05 RE104D3-20250307	6559	17.11	4896	21.30	4323	23.55
06 RE125D2-20250307DL	5911	17.11	3996	21.30	3315	23.55

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE122D2-20250305	SDG No.:	Q1531
Lab Sample ID:	Q1531-01	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
BN036576.D	1	03/10/25 11:35	03/11/25 11:20	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3300	7.724				
1146-65-2	Naphthalene-d8	7380	10.509				
15067-26-2	Acenaphthene-d10	4300	14.366				
1517-22-2	Phenanthrene-d10	8600	17.111				
1719-03-5	Chrysene-d12	6410	21.295				
1520-96-3	Perylene-d12	5770	23.548				

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\BN031125\
Data File : BN036576.D
Acq On : 11 Mar 2025 11:20
Operator : RC/JU
Sample : Q1531-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

Quant Time: Mar 11 12:02:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

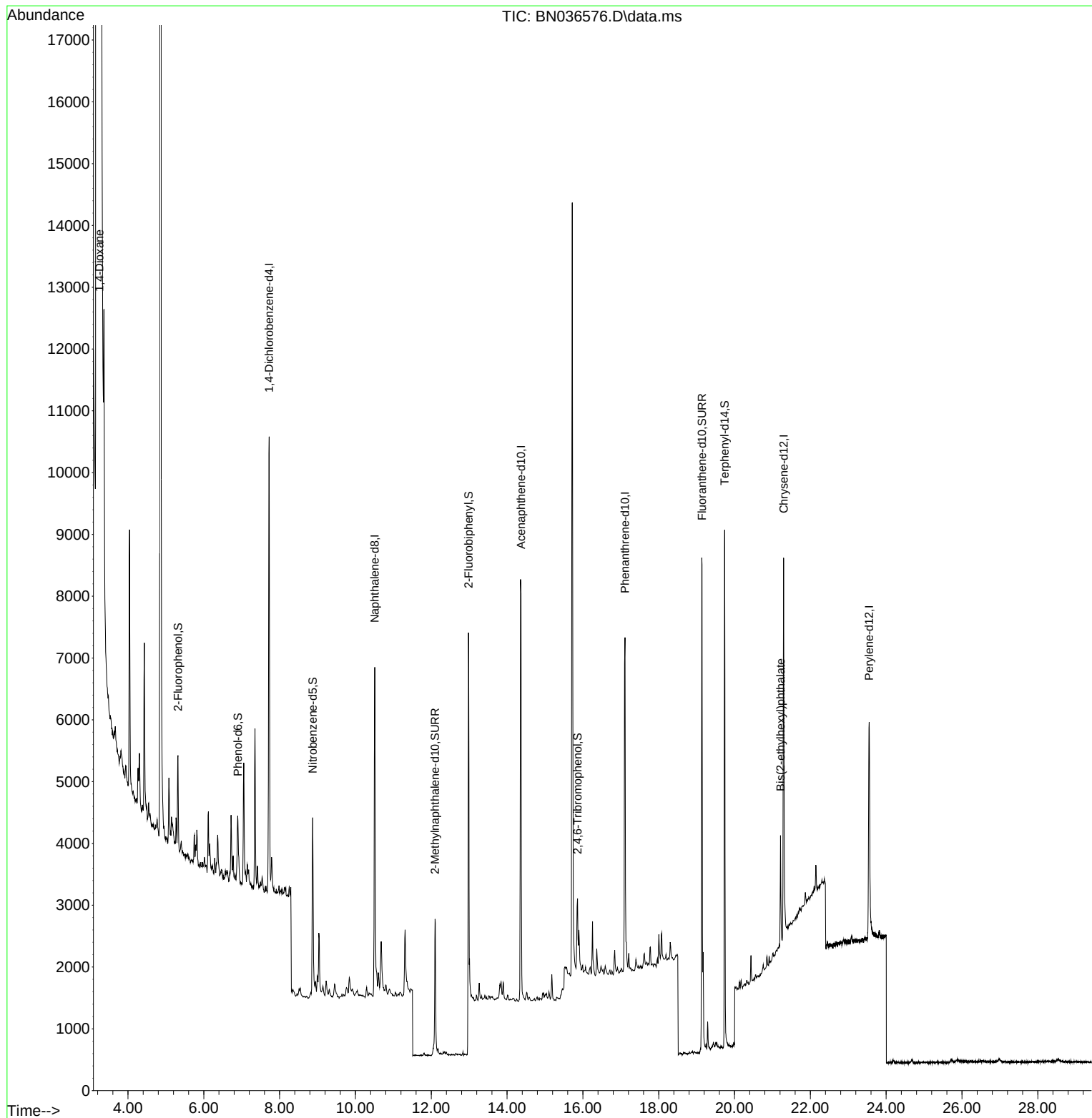
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3302	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7375	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	4300	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8599	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6414	0.400	ng	0.00
35) Perylene-d12	23.548	264	5766	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1122	0.146	ng	0.00
5) Phenol-d6	6.901	99	740	0.078	ng	0.00
8) Nitrobenzene-d5	8.875	82	2607	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	3642	0.332	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	786	0.403	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	9247	0.370	ng	0.00
27) Fluoranthene-d10	19.141	212	9238	0.419	ng	0.00
31) Terphenyl-d14	19.740	244	8067	0.525	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	16423	4.484	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	1840	0.116	ng	# 94

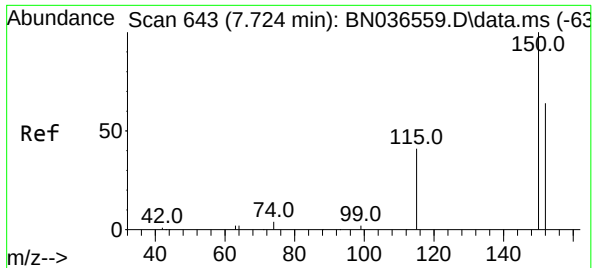
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036576.D
Acq On : 11 Mar 2025 11:20
Operator : RC/JU
Sample : Q1531-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

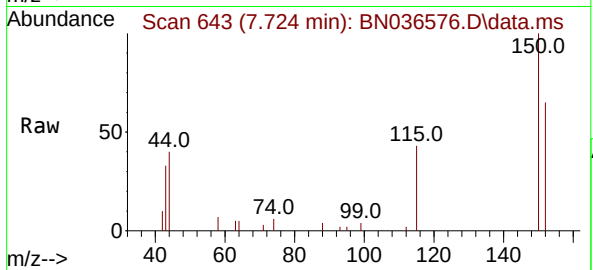
Quant Time: Mar 11 12:02:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



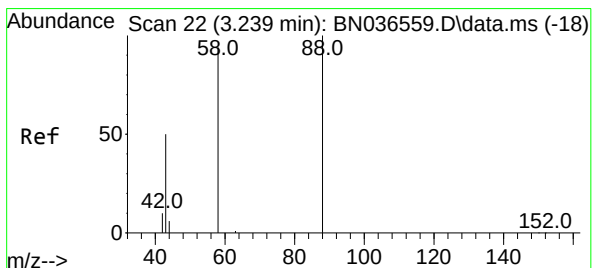
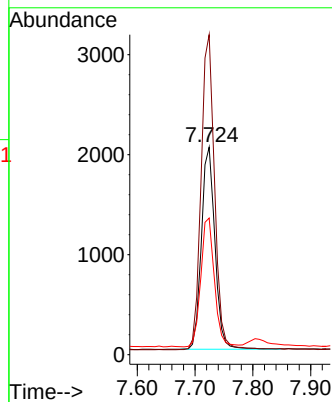
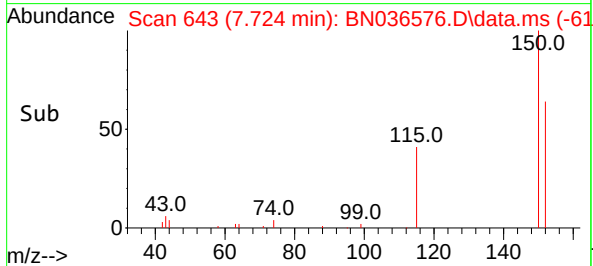


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

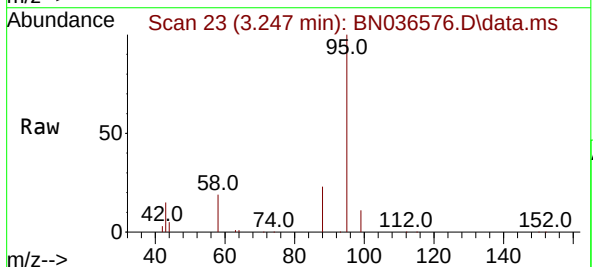
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305



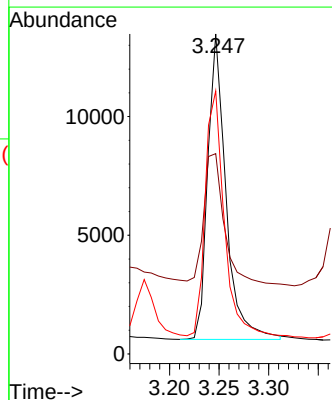
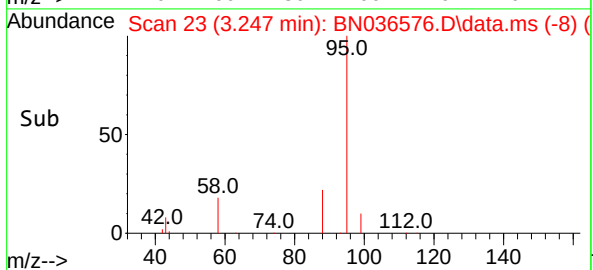
Tgt Ion:152 Resp: 3302
Ion Ratio Lower Upper
152 100
150 154.1 123.7 185.5
115 65.8 54.3 81.5

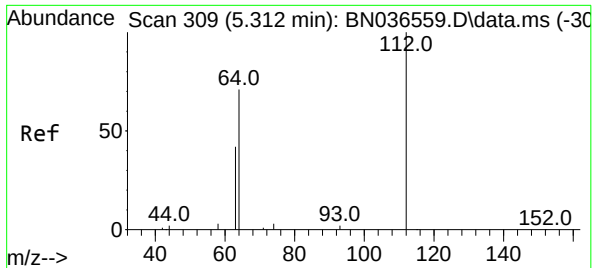


#2
1,4-Dioxane
Concen: 4.484 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20



Tgt Ion: 88 Resp: 16423
Ion Ratio Lower Upper
88 100
43 47.4 37.8 56.8
58 83.1 67.4 101.2

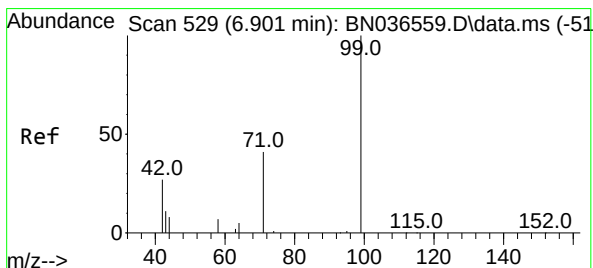
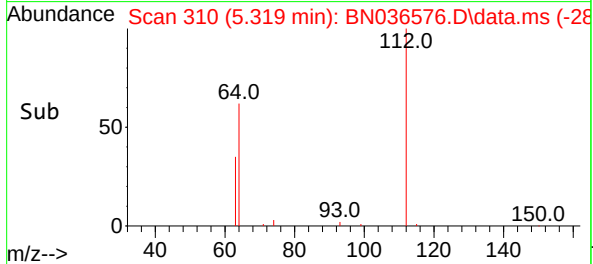
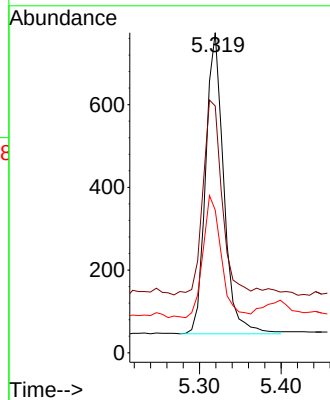
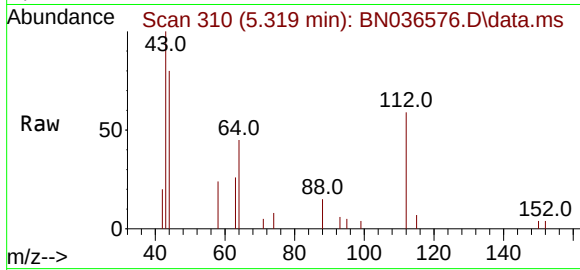




#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

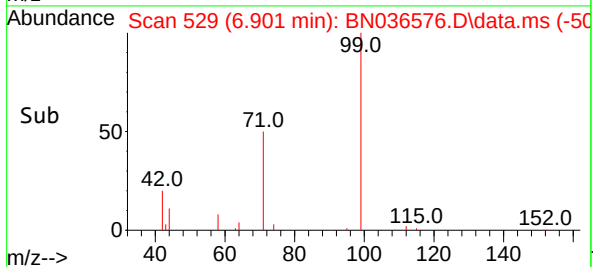
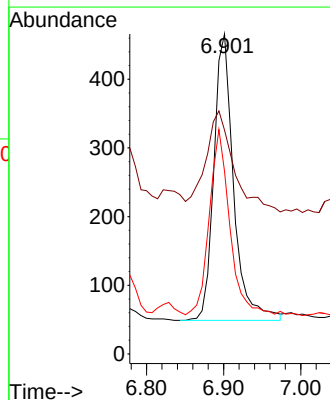
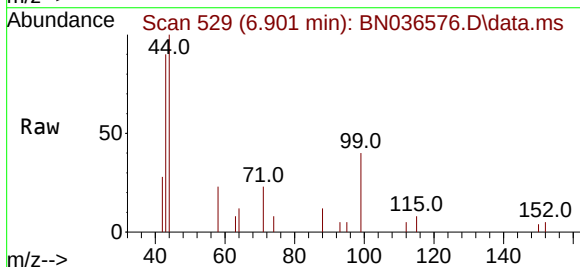
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

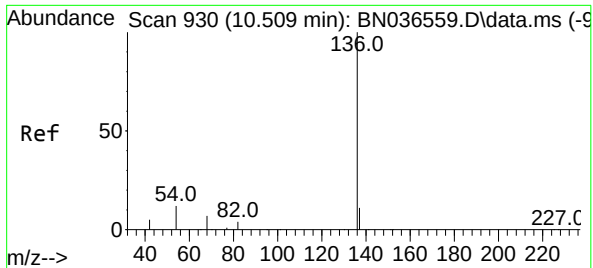
Tgt Ion:112 Resp: 1122
Ion Ratio Lower Upper
112 100
64 67.8 53.1 79.7
63 40.1 31.8 47.8



#5
Phenol-d6
Concen: 0.078 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

Tgt Ion: 99 Resp: 740
Ion Ratio Lower Upper
99 100
42 49.3 26.5 39.7#
71 66.5 34.1 51.1#

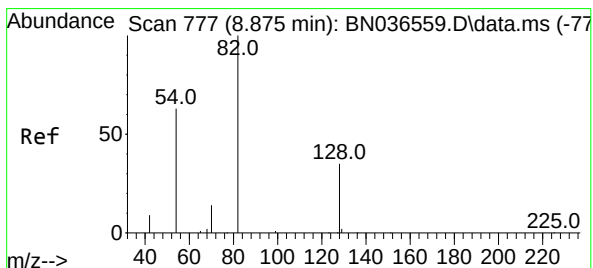
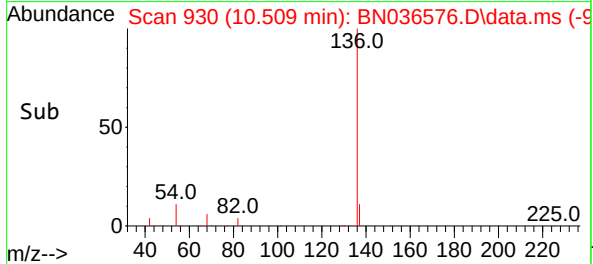
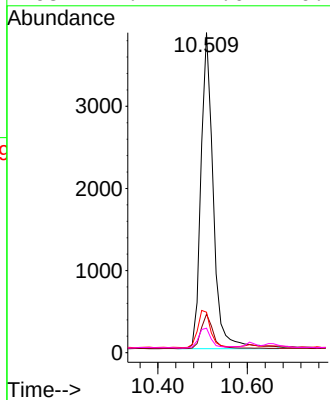
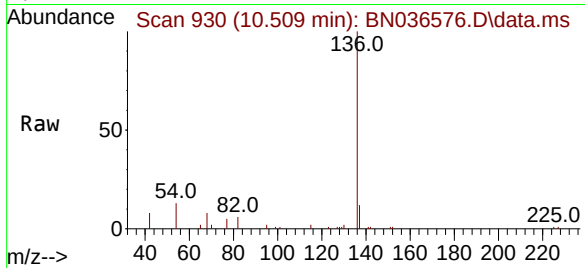




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

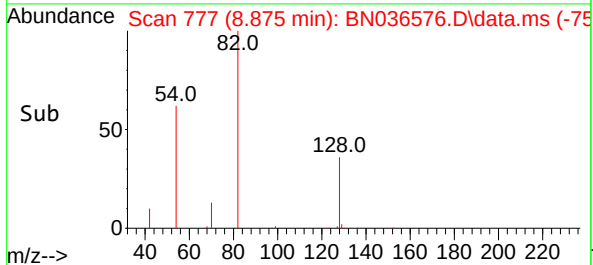
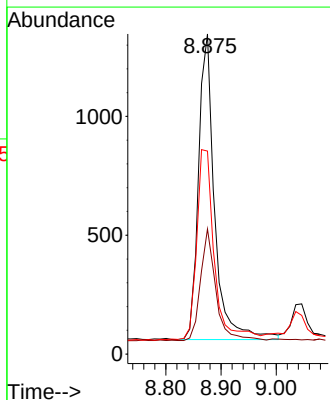
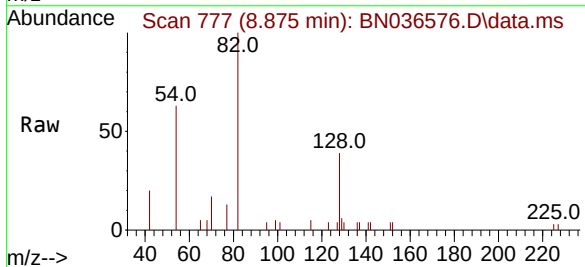
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

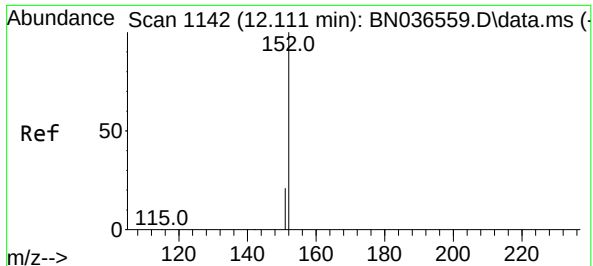
Tgt Ion:	136	Resp:	7375
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.3	15.5
54	12.7	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

Tgt Ion:	82	Resp:	2607
Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	63.4	52.2	78.4

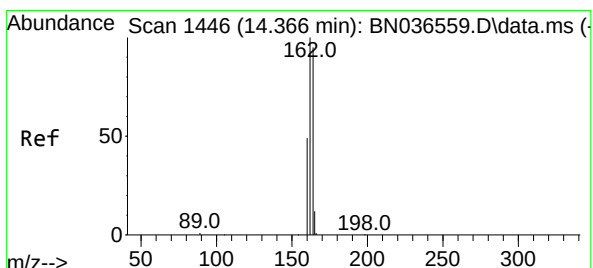
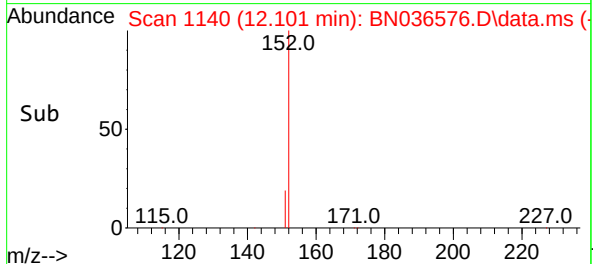
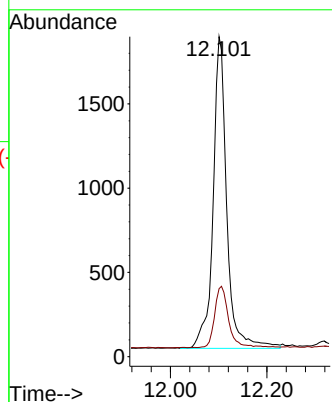
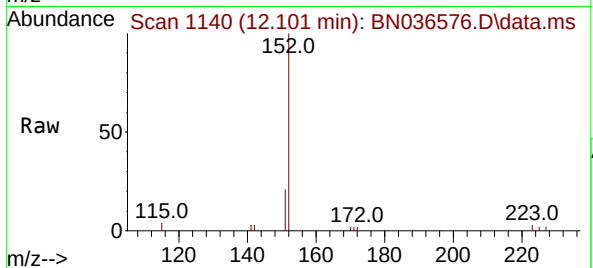




#11
2-Methylnaphthalene-d10
Concen: 0.332 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

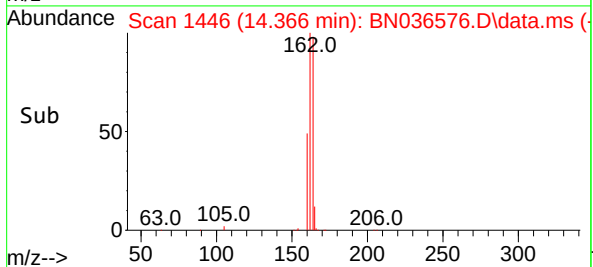
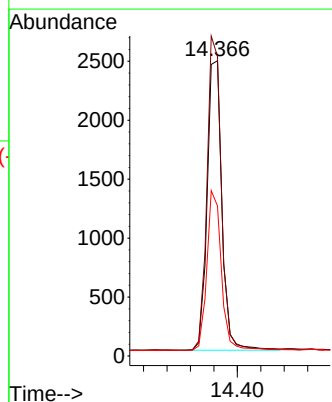
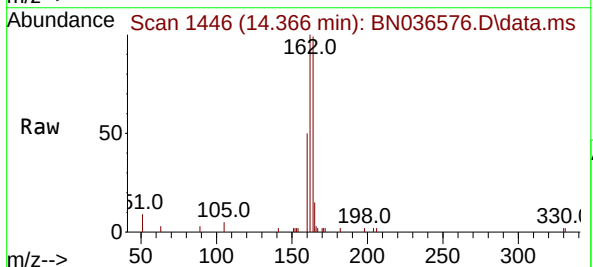
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

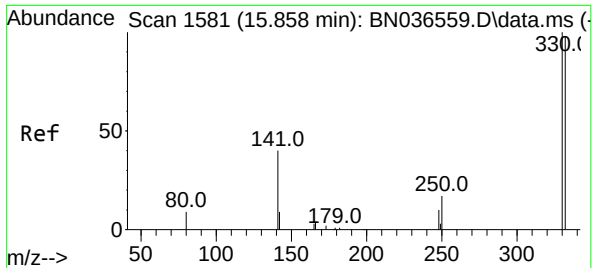
Tgt Ion:152 Resp: 3642
Ion Ratio Lower Upper
152 100
151 20.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

Tgt Ion:164 Resp: 4300
Ion Ratio Lower Upper
164 100
162 101.4 84.2 126.2
160 50.8 42.2 63.2

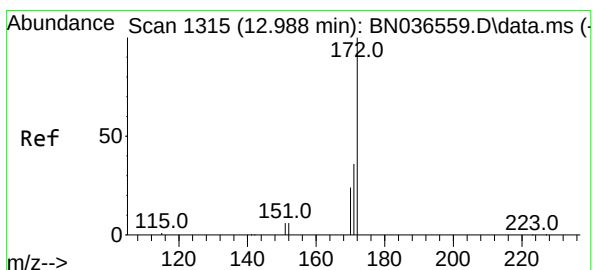
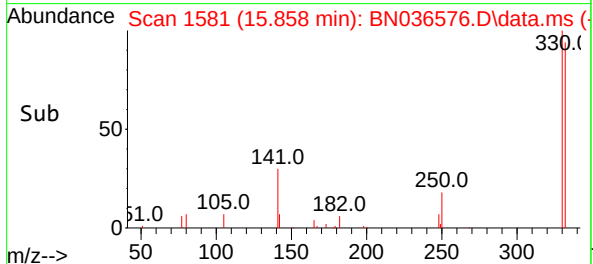
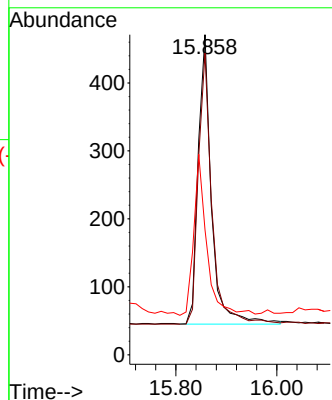
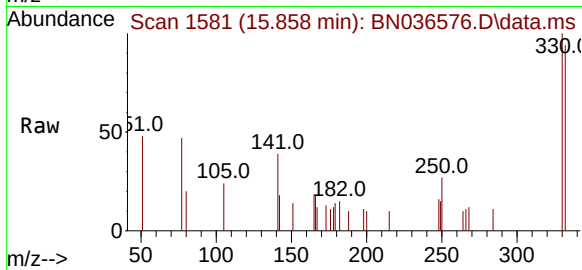




#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.858 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

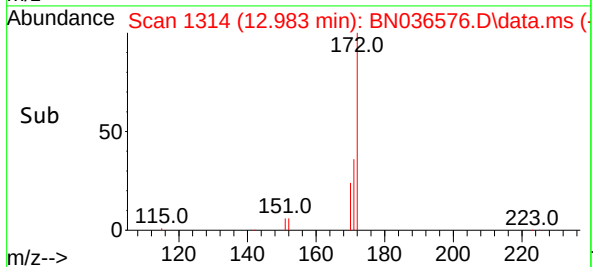
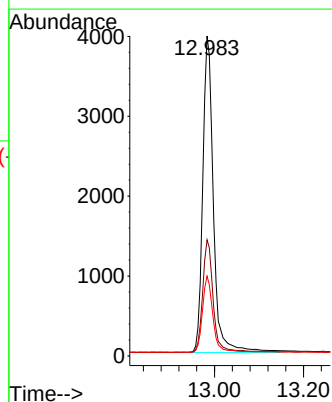
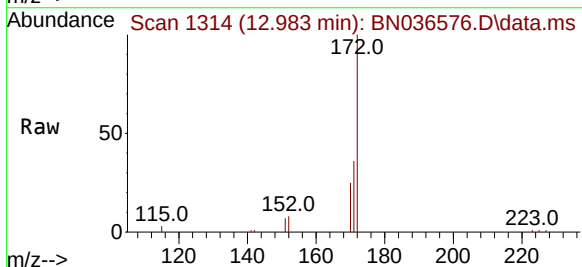
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

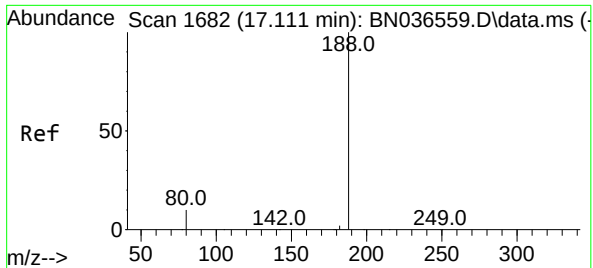
Tgt Ion	330	Resp	786
Ion	Ratio	Lower	Upper
330	100		
332	94.9	75.2	112.8
141	53.9	43.4	65.2



#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

Tgt Ion	172	Resp	9247
Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.5	44.3
170	24.9	20.2	30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036576.D

Acq: 11 Mar 2025 11:20

Instrument :

BNA_N

ClientSampleId :

RE122D2-20250305

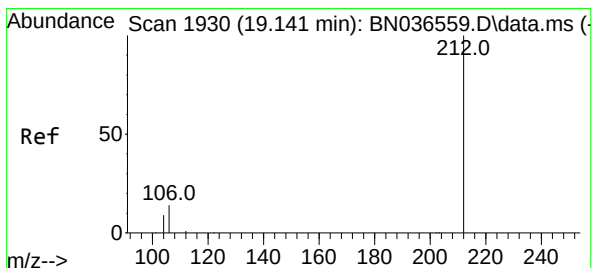
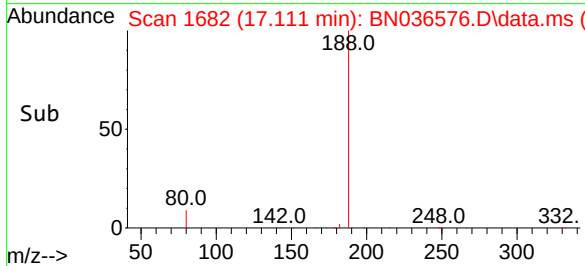
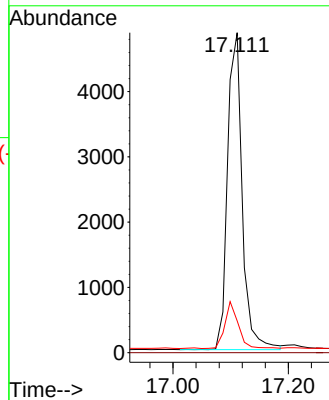
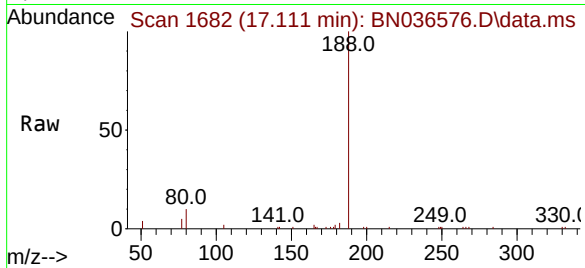
Tgt Ion:188 Resp: 8599

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 8.8 13.2



#27

Fluoranthene-d10

Concen: 0.419 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036576.D

Acq: 11 Mar 2025 11:20

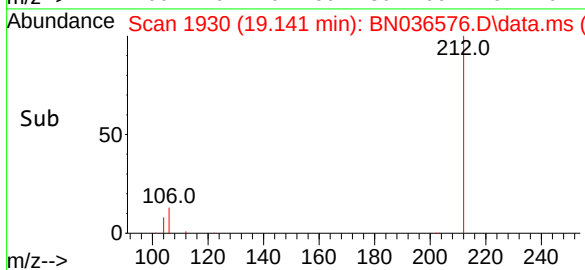
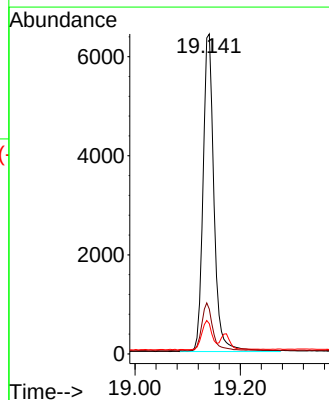
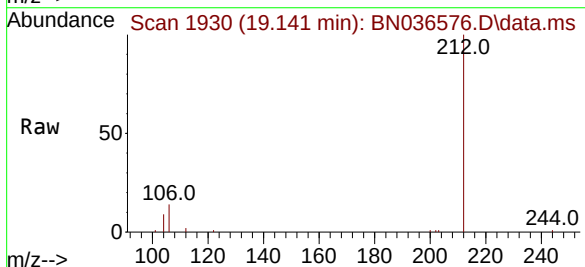
Tgt Ion:212 Resp: 9238

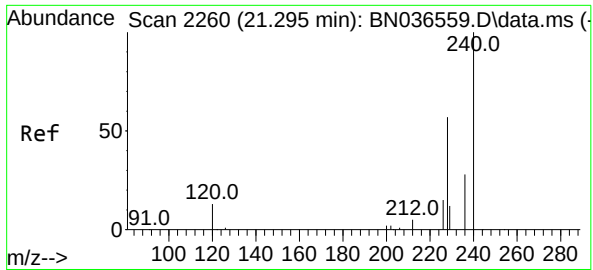
Ion Ratio Lower Upper

212 100

106 15.3 11.8 17.6

104 8.6 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036576.D

Acq: 11 Mar 2025 11:20

Instrument :

BNA_N

ClientSampleId :

RE122D2-20250305

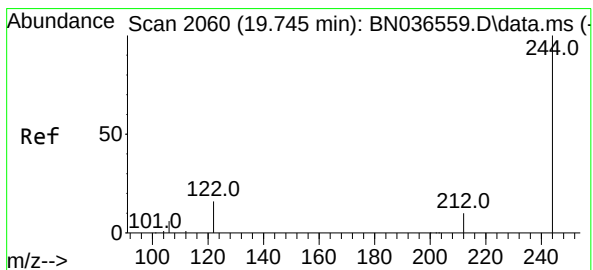
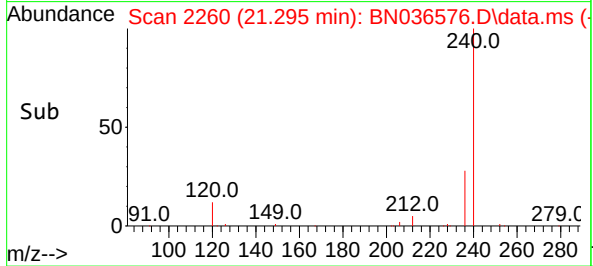
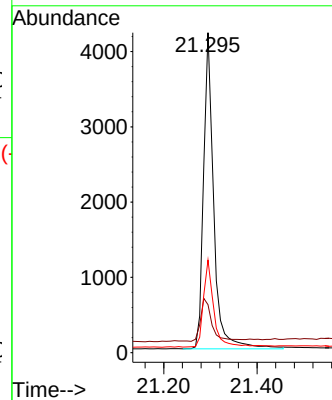
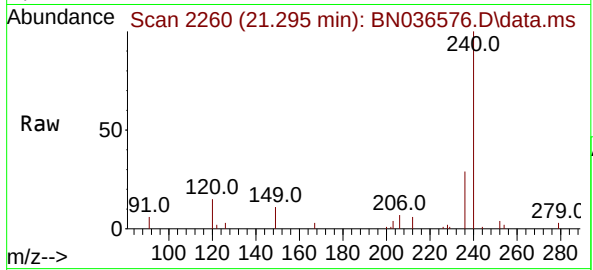
Tgt Ion:240 Resp: 6414

Ion Ratio Lower Upper

240 100

120 15.0 14.6 22.0

236 29.0 24.1 36.1



#31

Terphenyl-d14

Concen: 0.525 ng

RT: 19.740 min Scan# 2059

Delta R.T. -0.005 min

Lab File: BN036576.D

Acq: 11 Mar 2025 11:20

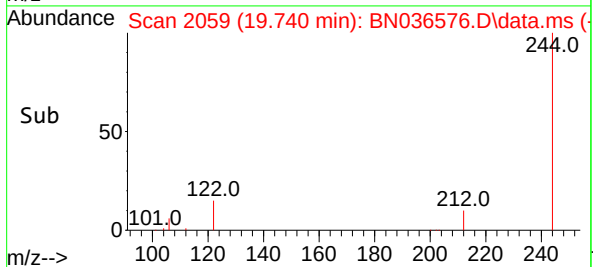
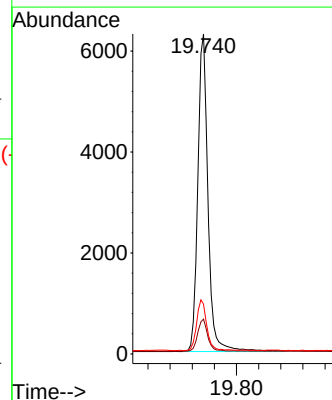
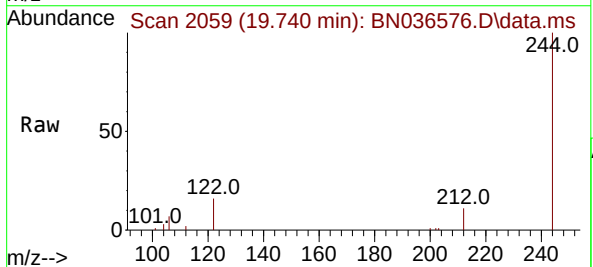
Tgt Ion:244 Resp: 8067

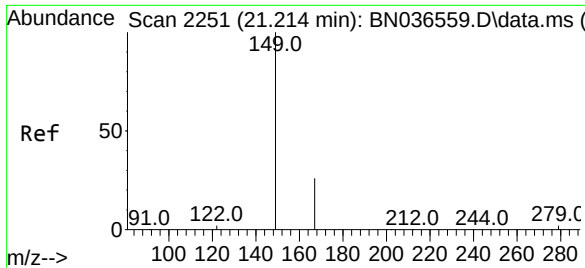
Ion Ratio Lower Upper

244 100

212 10.9 9.6 14.4

122 15.5 13.9 20.9

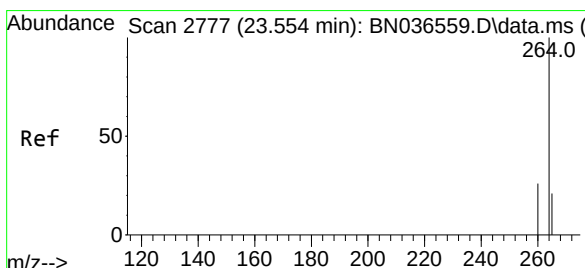
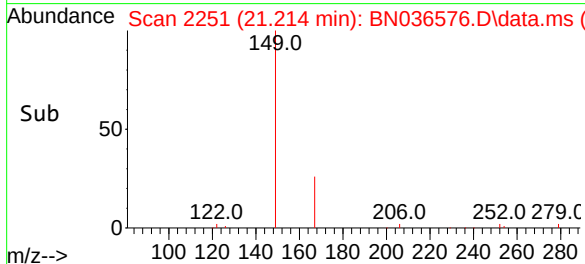
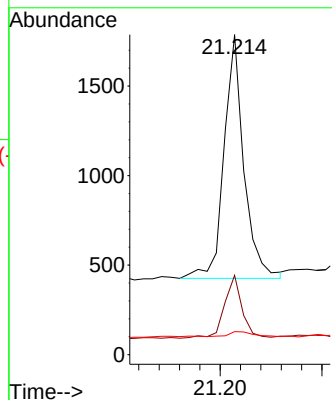
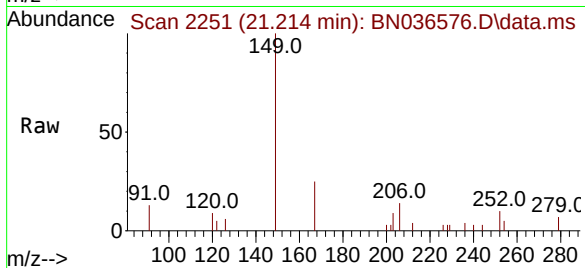




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.116 ng
RT: 21.214 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

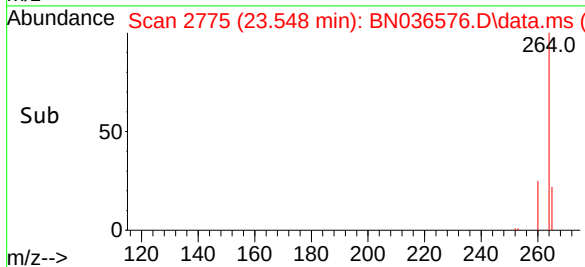
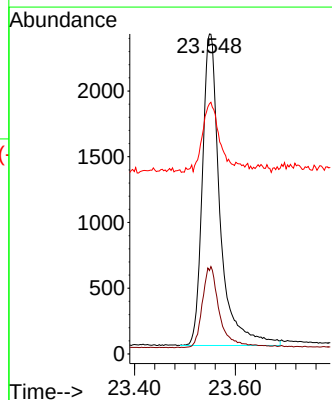
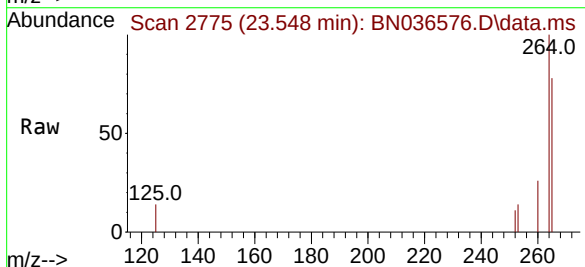
Instrument :
BNA_N
ClientSampleId :
RE122D2-20250305

Tgt Ion:149 Resp: 1840
Ion Ratio Lower Upper
149 100
167 22.9 20.7 31.1
279 2.3 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 2775
Delta R.T. -0.006 min
Lab File: BN036576.D
Acq: 11 Mar 2025 11:20

Tgt Ion:264 Resp: 5766
Ion Ratio Lower Upper
264 100
260 26.0 22.6 33.8
265 78.2 88.1 132.1#



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/05/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/07/25	
Client Sample ID:	RE122D3-20250305		SDG No.:	Q1531	
Lab Sample ID:	Q1531-02		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
BN036577.D	1	03/10/25 11:35	03/11/25 11:56	PB167057

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	4660	10.509				
15067-26-2	Acenaphthene-d10	2590	14.366				
1517-22-2	Phenanthrene-d10	4760	17.111				
1719-03-5	Chrysene-d12	3530	21.304				
1520-96-3	Perylene-d12	3330	23.554				

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\BN031125\
Data File : BN036577.D
Acq On : 11 Mar 2025 11:56
Operator : RC/JU
Sample : Q1531-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D3-20250305

Quant Time: Mar 11 12:20:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

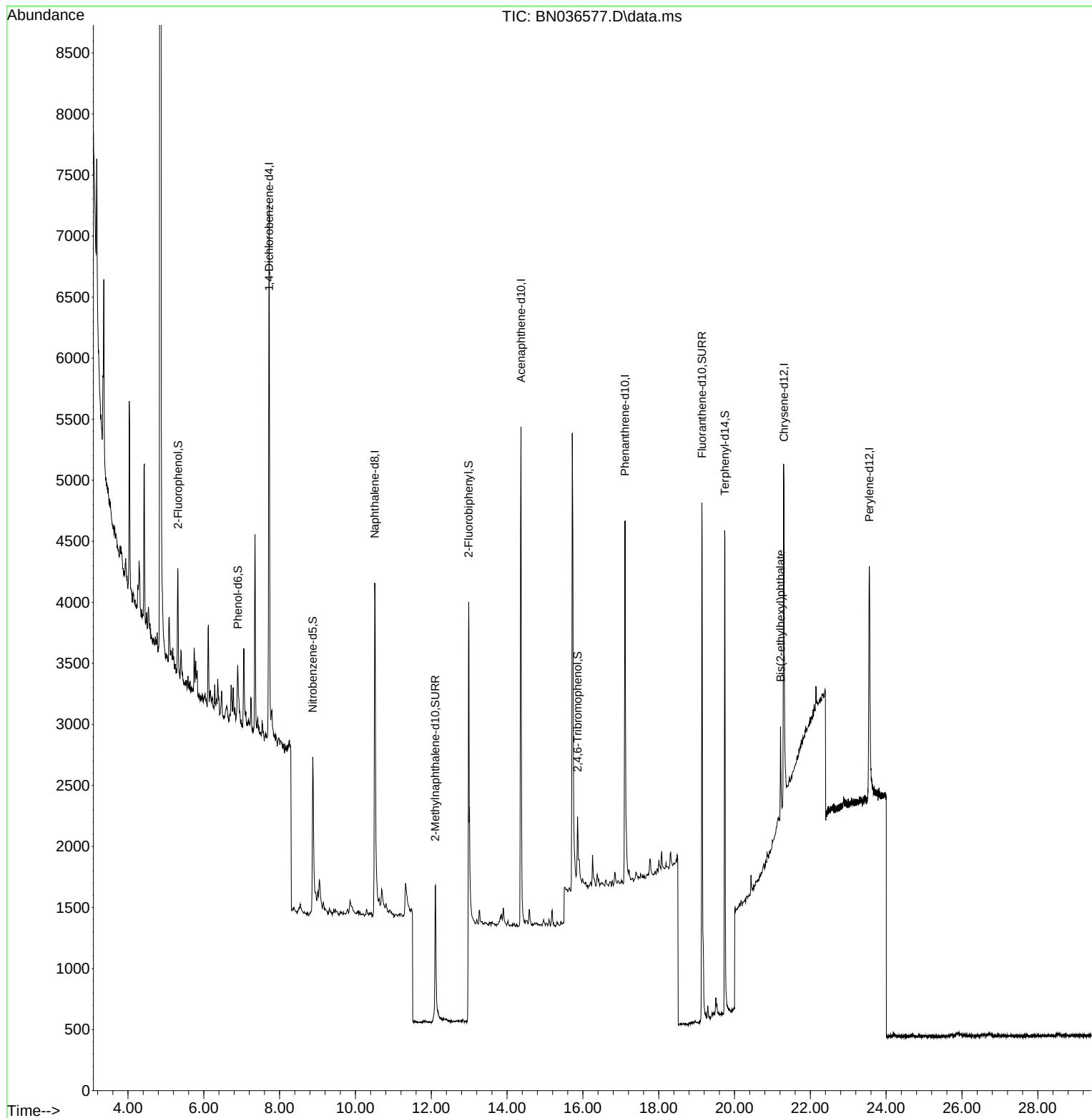
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2163	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4662	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2586	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	4760	0.400	ng	0.00
29) Chrysene-d12	21.304	240	3526	0.400	ng	0.00
35) Perylene-d12	23.554	264	3334	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	637	0.126	ng	0.00
5) Phenol-d6	6.901	99	382	0.061	ng	0.00
8) Nitrobenzene-d5	8.875	82	1490	0.294	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2238	0.323	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	388	0.331	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5263	0.350	ng	0.00
27) Fluoranthene-d10	19.141	212	5257	0.431	ng	0.00
31) Terphenyl-d14	19.745	244	4357	0.516	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	717	0.082	ng	Qvalue # 93

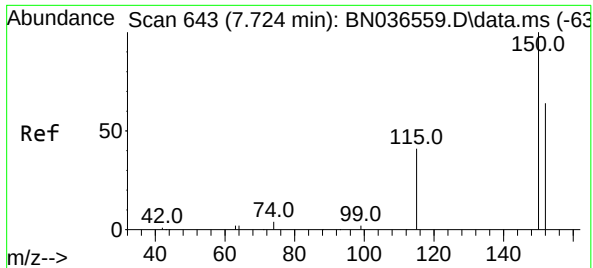
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036577.D
Acq On : 11 Mar 2025 11:56
Operator : RC/JU
Sample : Q1531-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D3-20250305

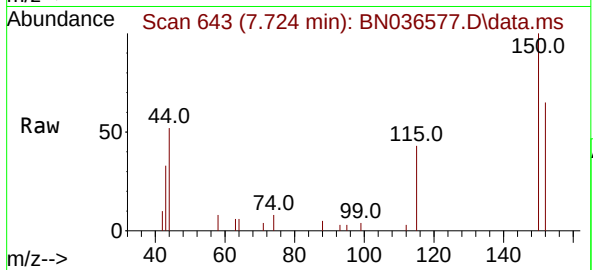
Quant Time: Mar 11 12:20:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



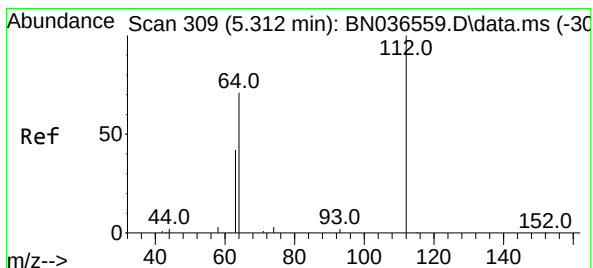
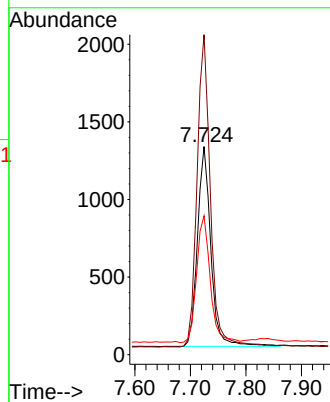
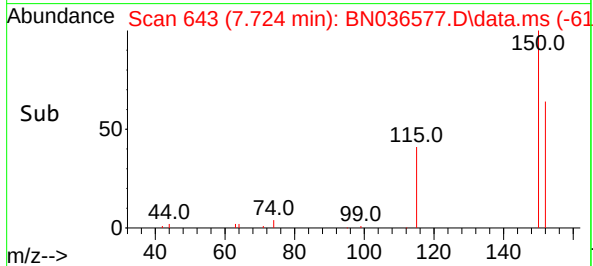


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

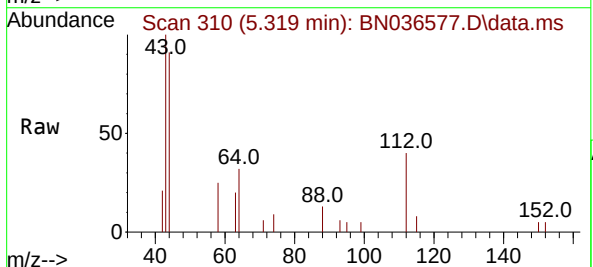
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BNA_N
ClientSampleId :
RE122D3-20250305



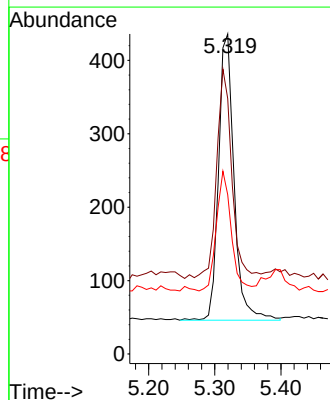
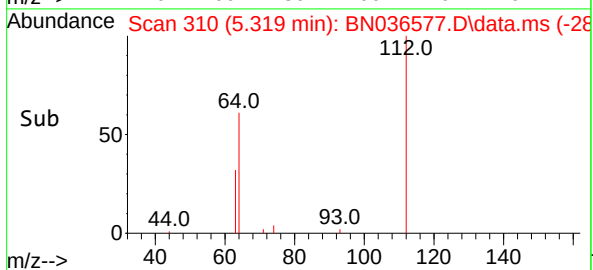
Tgt Ion:152 Resp: 2163
Ion Ratio Lower Upper
152 100
150 153.8 123.7 185.5
115 66.7 54.3 81.5

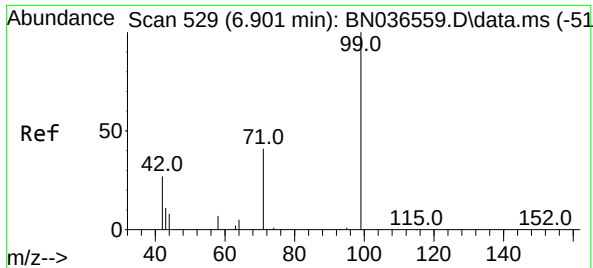


#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56



Tgt Ion:112 Resp: 637
Ion Ratio Lower Upper
112 100
64 71.4 53.1 79.7
63 39.7 31.8 47.8

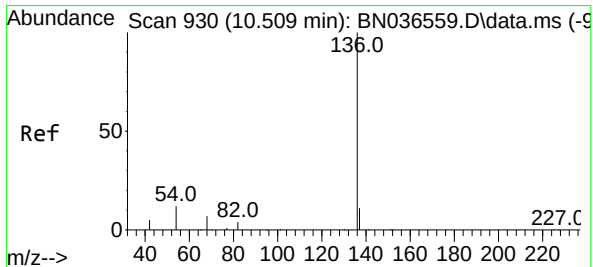
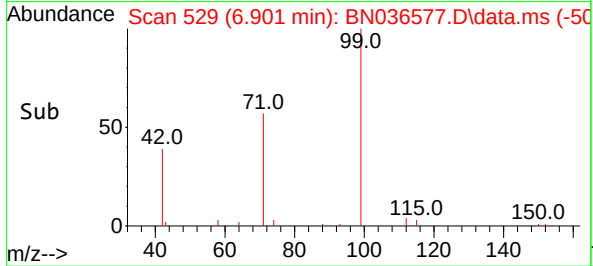
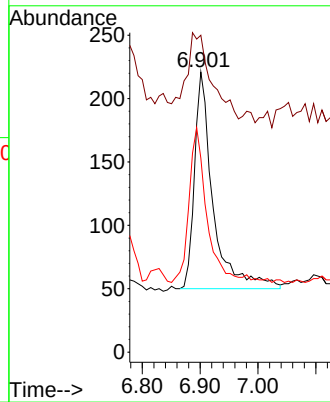
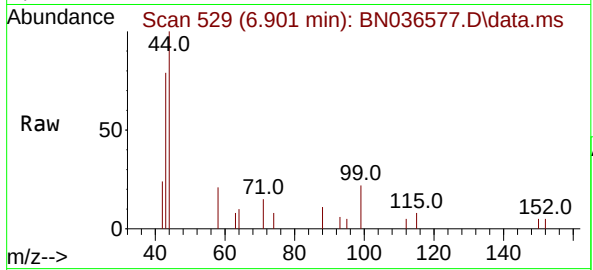




#5
Phenol-d6
Concen: 0.061 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

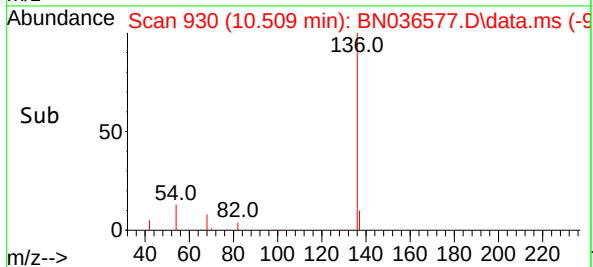
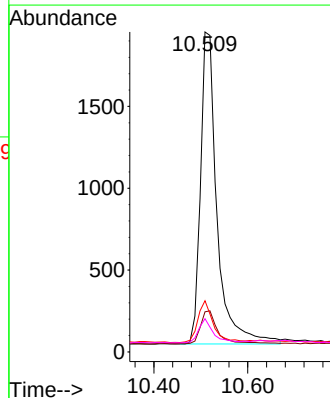
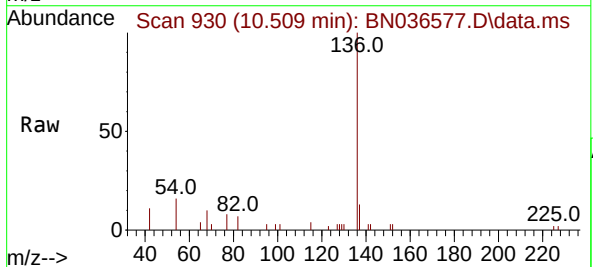
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250305

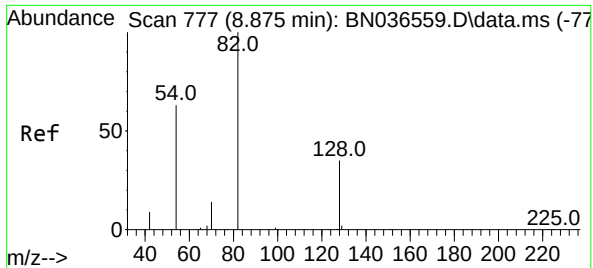
Tgt Ion: 99 Resp: 382
Ion Ratio Lower Upper
99 100
42 53.4 26.5 39.7#
71 69.4 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

Tgt Ion: 136 Resp: 4662
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 16.0 11.5 17.3
68 10.4 7.0 10.4

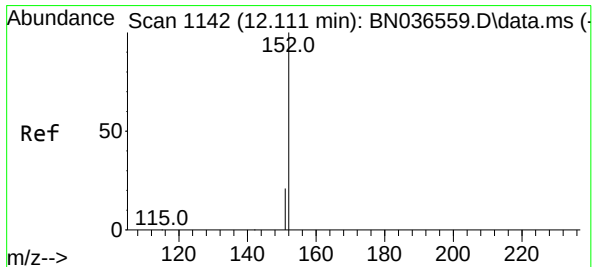
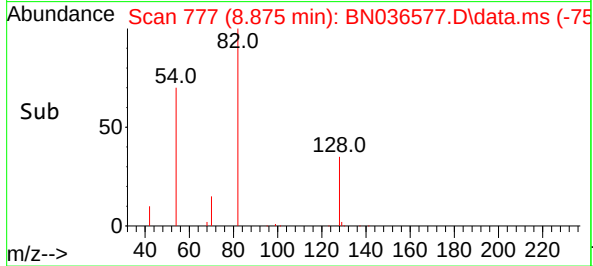
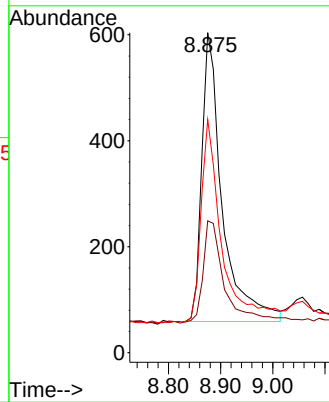
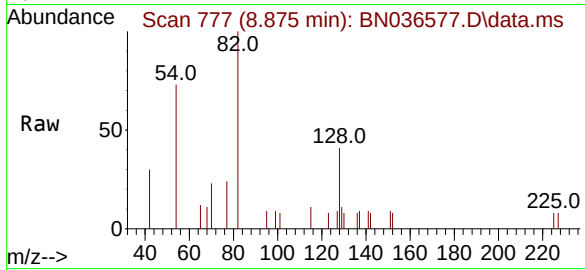




#8
Nitrobenzene-d5
Concen: 0.294 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

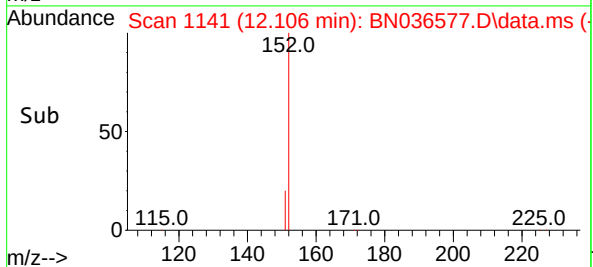
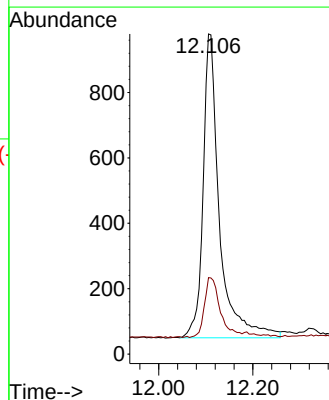
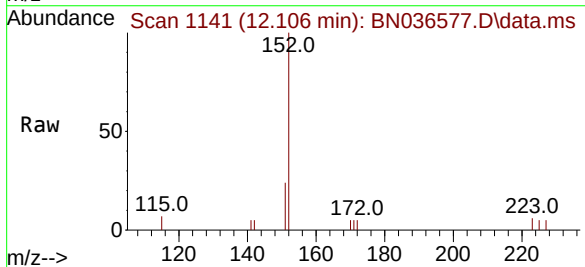
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250305

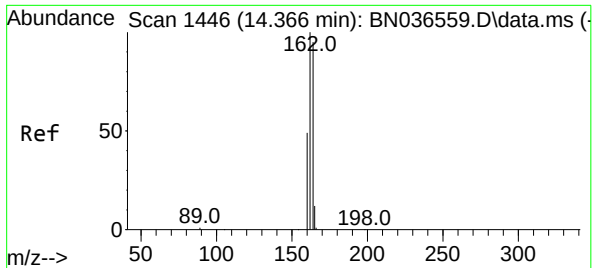
Tgt Ion:	82	Resp:	1490
Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	45.8
54	72.8	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

Tgt Ion:	152	Resp:	2238
Ion	Ratio	Lower	Upper
152	100		
151	19.0	17.0	25.6

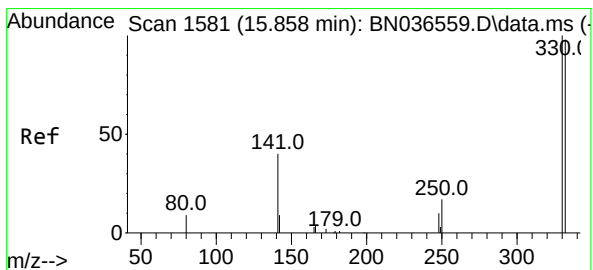
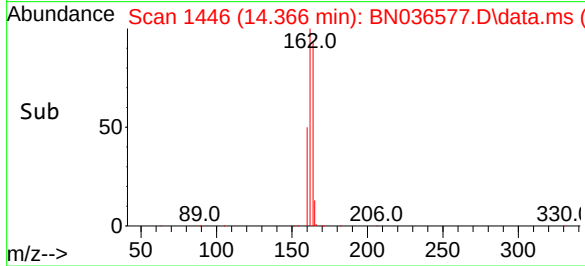
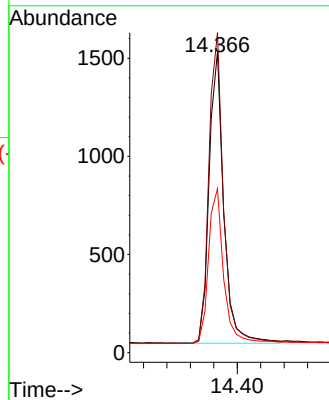
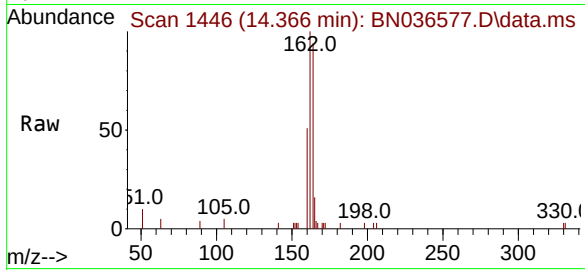




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

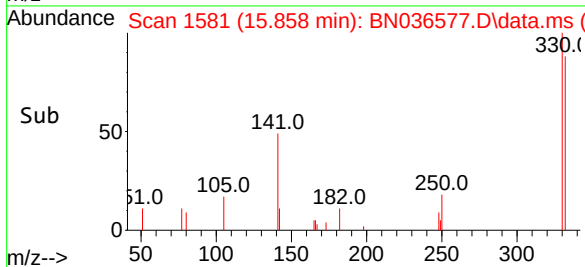
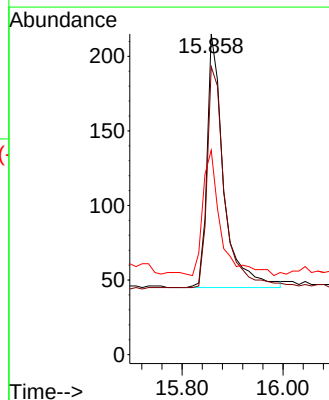
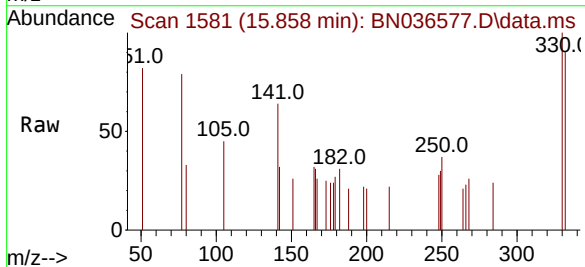
Instrument :
BNA_N
ClientSampleId :
RE122D3-20250305

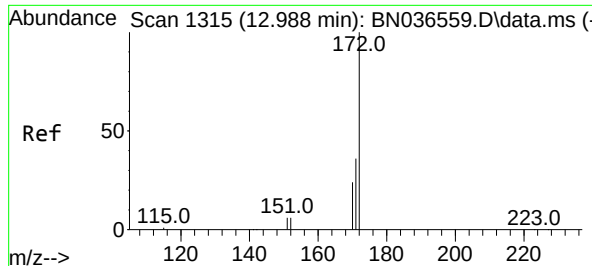
Tgt Ion:	164	Resp:	2586
Ion Ratio	Lower	Upper	
164	100		
162	106.5	84.2	126.2
160	54.5	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.331 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036577.D
Acq: 11 Mar 2025 11:56

Tgt Ion:	330	Resp:	388
Ion Ratio	Lower	Upper	
330	100		
332	91.8	75.2	112.8
141	53.9	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 0.350 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036577.D

Acq: 11 Mar 2025 11:56

Instrument :

BNA_N

ClientSampleId :

RE122D3-20250305

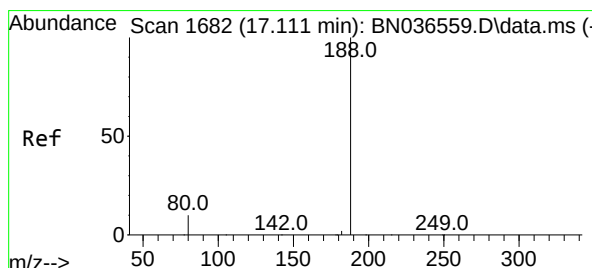
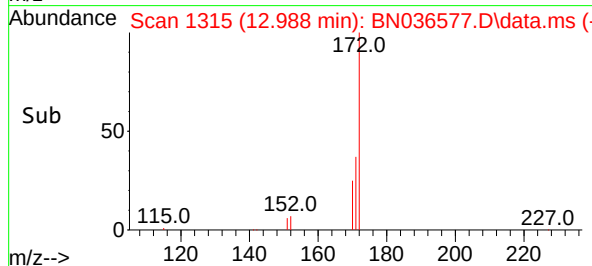
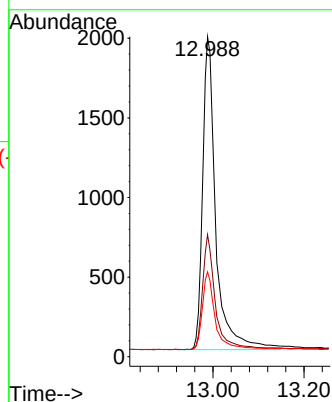
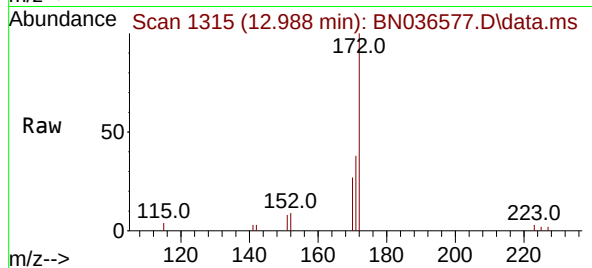
Tgt Ion:172 Resp: 5263

Ion Ratio Lower Upper

172 100

171 38.2 29.5 44.3

170 26.5 20.2 30.4



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1682

Delta R.T. 0.000 min

Lab File: BN036577.D

Acq: 11 Mar 2025 11:56

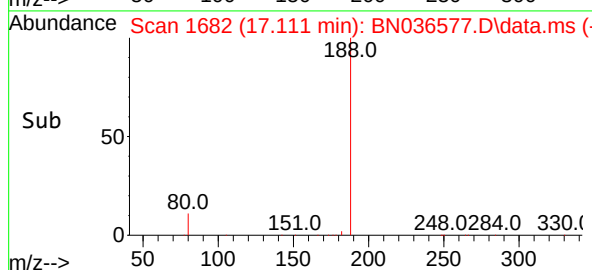
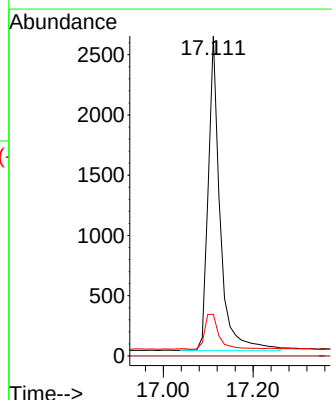
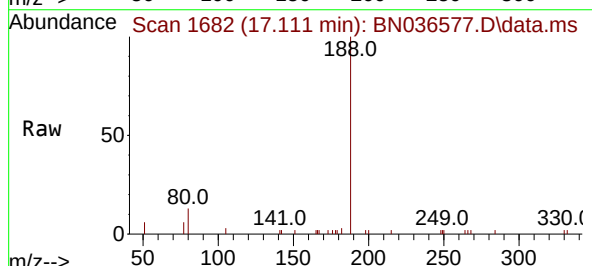
Tgt Ion:188 Resp: 4760

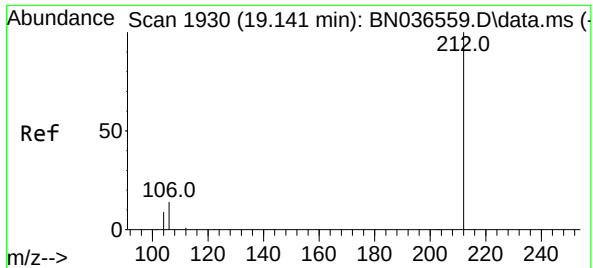
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 8.8 13.2





#27

Fluoranthene-d10

Concen: 0.431 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036577.D

Acq: 11 Mar 2025 11:56

Instrument :

BNA_N

ClientSampleId :

RE122D3-20250305

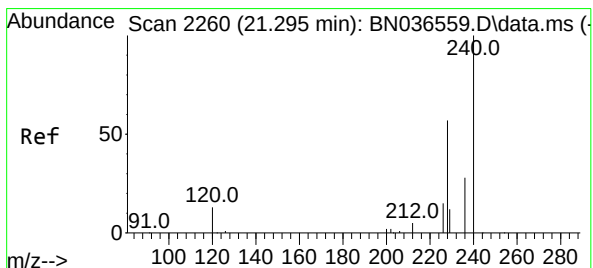
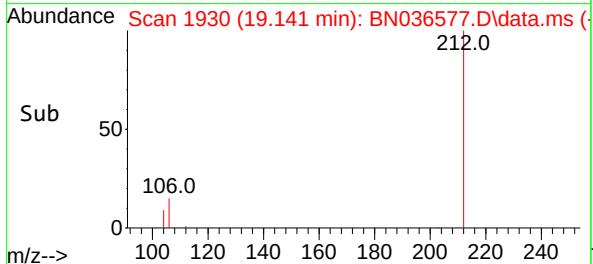
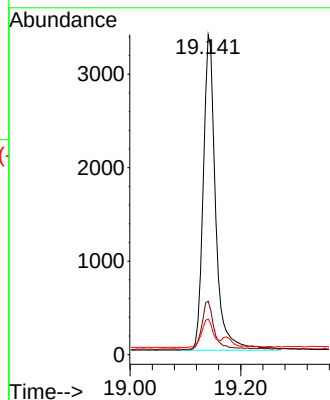
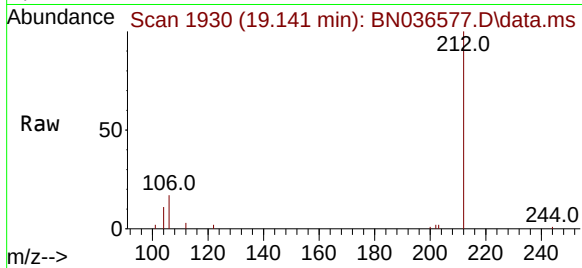
Tgt Ion:212 Resp: 5257

Ion Ratio Lower Upper

212 100

106 15.1 11.8 17.6

104 9.0 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 2261

Delta R.T. 0.009 min

Lab File: BN036577.D

Acq: 11 Mar 2025 11:56

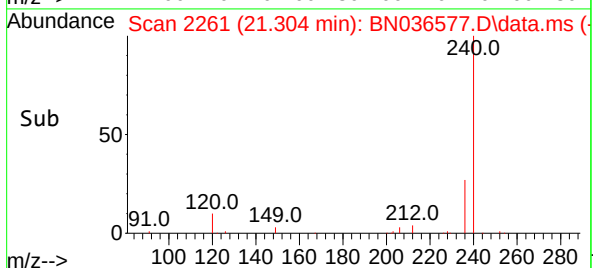
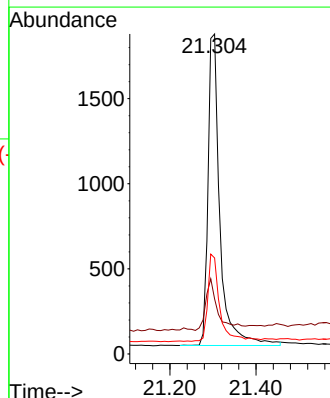
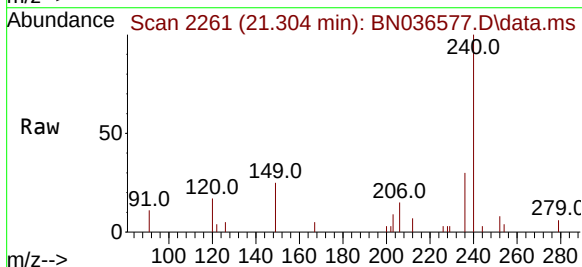
Tgt Ion:240 Resp: 3526

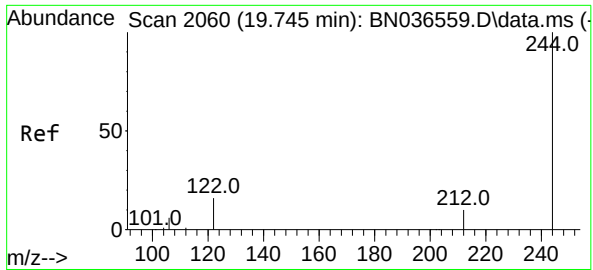
Ion Ratio Lower Upper

240 100

120 17.2 14.6 22.0

236 30.0 24.1 36.1

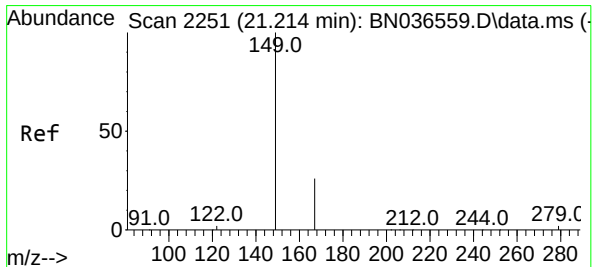
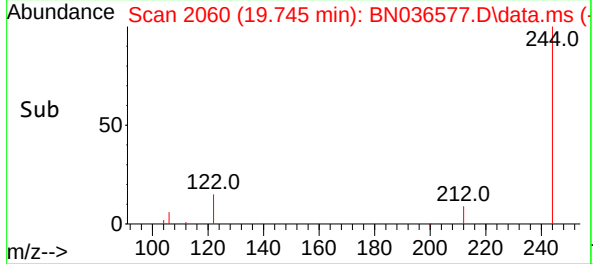
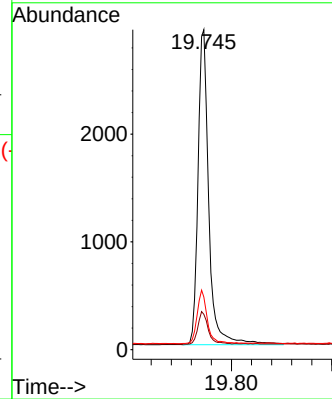
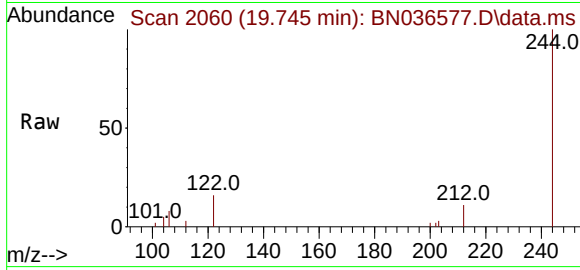




#31
 Terphenyl-d14
 Concen: 0.516 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036577.D
 Acq: 11 Mar 2025 11:56

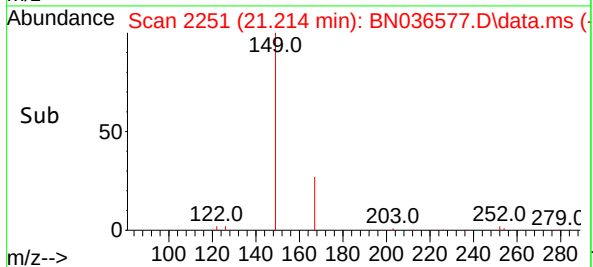
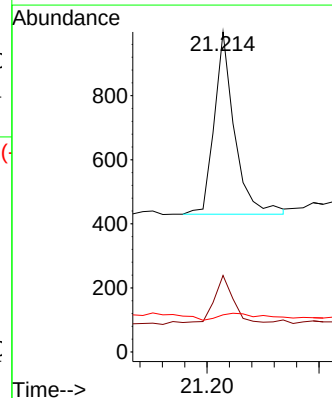
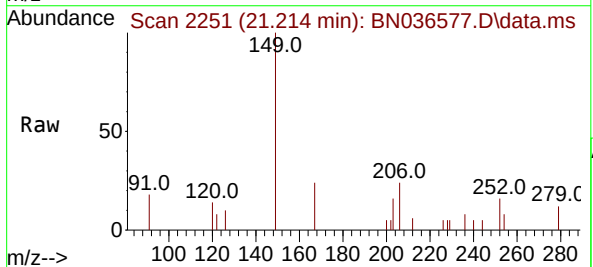
Instrument :
 BNA_N
 ClientSampleId :
 RE122D3-20250305

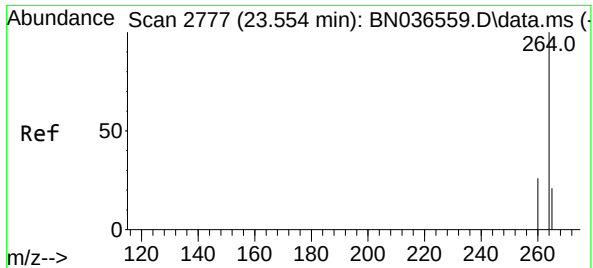
Tgt Ion:244 Resp: 4357
 Ion Ratio Lower Upper
 244 100
 212 11.0 9.6 14.4
 122 16.5 13.9 20.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.082 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN036577.D
 Acq: 11 Mar 2025 11:56

Tgt Ion:149 Resp: 717
 Ion Ratio Lower Upper
 149 100
 167 22.9 20.7 31.1
 279 8.9 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036577.D

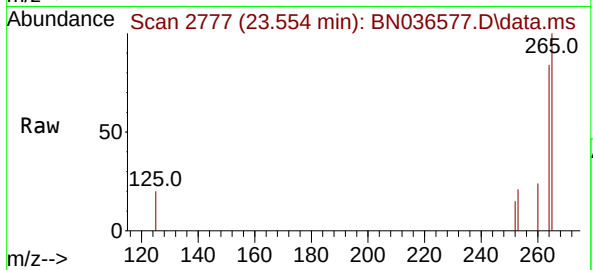
Acq: 11 Mar 2025 11:56

Instrument :

BNA_N

ClientSampleId :

RE122D3-20250305



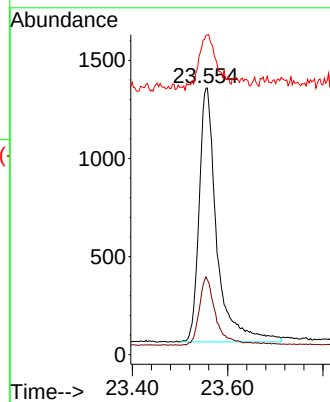
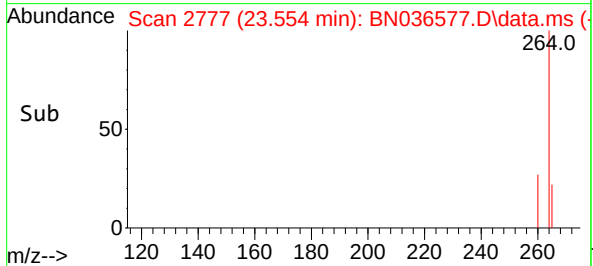
Tgt Ion:264 Resp: 3334

Ion Ratio Lower Upper

264 100

260 29.1 22.6 33.8

265 119.7 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/05/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE122D1-20250305	SDG No.:	Q1531
Lab Sample ID:	Q1531-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN036566.D	1	03/10/25 11:35	03/10/25 17:50	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	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	1980	7.724				
1146-65-2	Naphthalene-d8	4160	10.52				
15067-26-2	Acenaphthene-d10	2570	14.366				
1517-22-2	Phenanthrene-d10	5030	17.111				
1719-03-5	Chrysene-d12	3470	21.304				
1520-96-3	Perylene-d12	2980	23.56				

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\BN031025\
 Data File : BN036566.D
 Acq On : 10 Mar 2025 17:50
 Operator : RC/JU
 Sample : Q1531-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE122D1-20250305

Quant Time: Mar 10 18:13:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

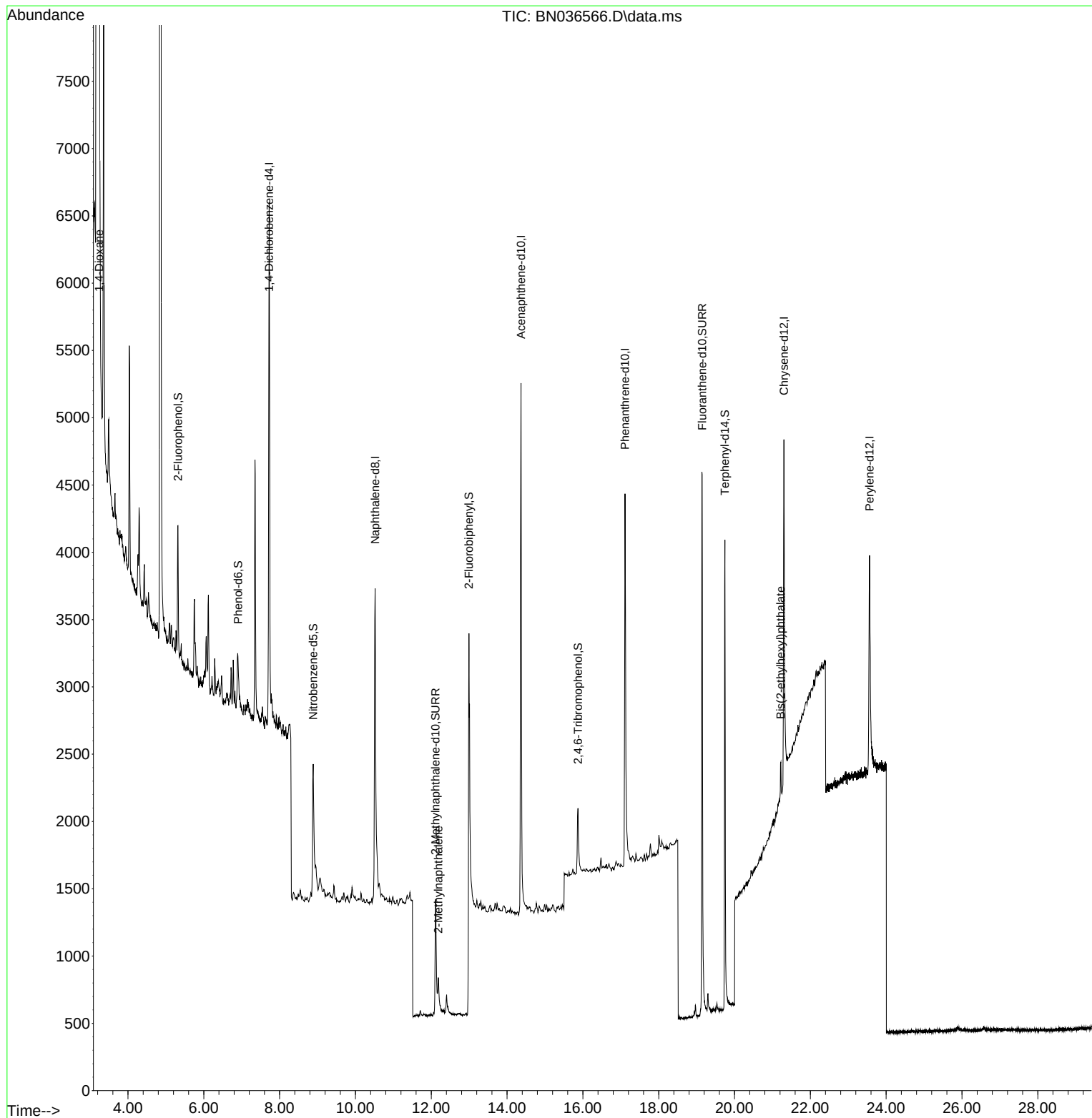
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1983	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4161	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2568	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5031	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3465	0.400	ng	0.00
35) Perylene-d12	23.560	264	2981	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	726	0.157	ng	0.00
5) Phenol-d6	6.908	99	461	0.081	ng	0.00
8) Nitrobenzene-d5	8.886	82	1459	0.322	ng	0.01
11) 2-Methylnaphthalene-d10	12.116	152	1922	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	436	0.374	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	4776	0.320	ng	0.00
27) Fluoranthene-d10	19.146	212	5549	0.430	ng	0.00
31) Terphenyl-d14	19.745	244	3851	0.464	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	8941	4.065	ng	98
12) 2-Methylnaphthalene	12.187	142	234	0.030	ng	# 84
34) Bis(2-ethylhexyl)phtha...	21.214	149	362	0.042	ng	100

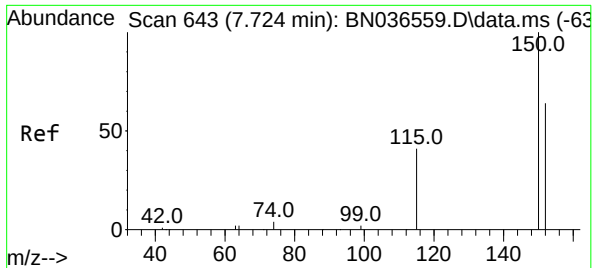
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036566.D
Acq On : 10 Mar 2025 17:50
Operator : RC/JU
Sample : Q1531-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

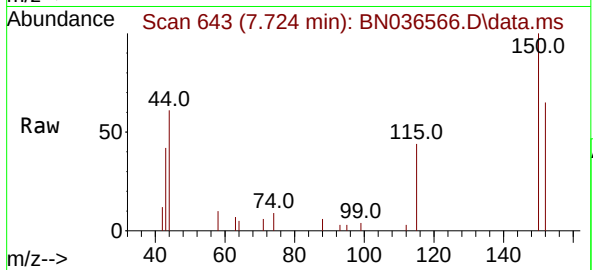
Quant Time: Mar 10 18:13:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



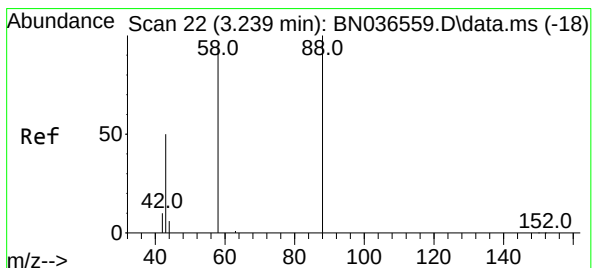
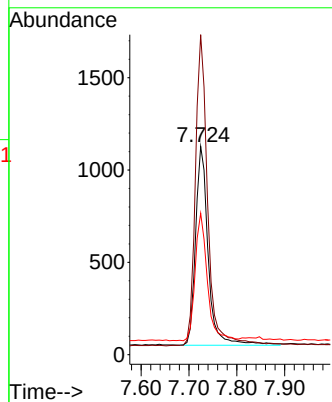
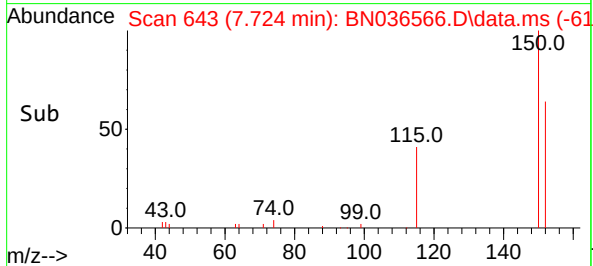


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

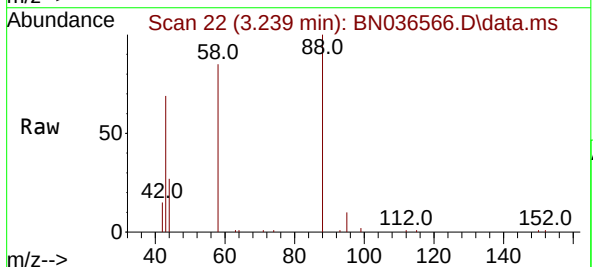
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305



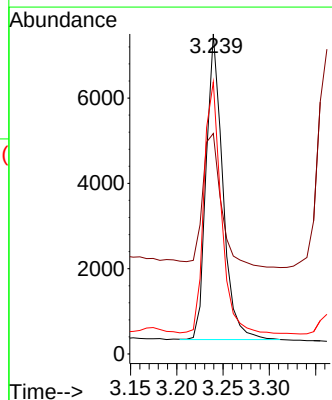
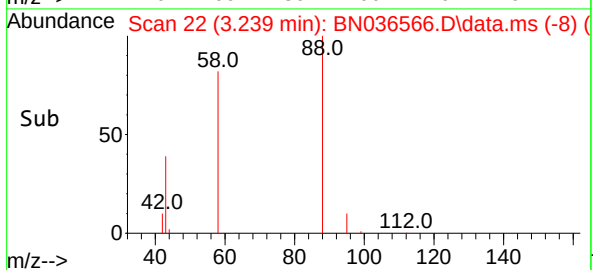
Tgt Ion:152 Resp: 1983
Ion Ratio Lower Upper
152 100
150 153.6 123.7 185.5
115 67.9 54.3 81.5

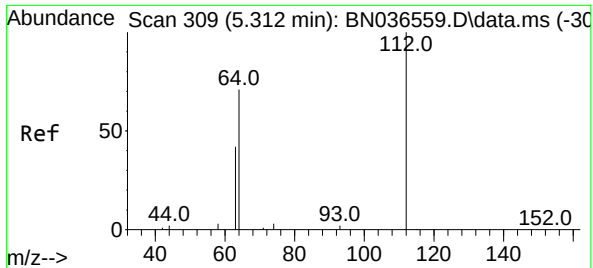


#2
1,4-Dioxane
Concen: 4.065 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50



Tgt Ion: 88 Resp: 8941
Ion Ratio Lower Upper
88 100
43 49.7 37.8 56.8
58 85.4 67.4 101.2

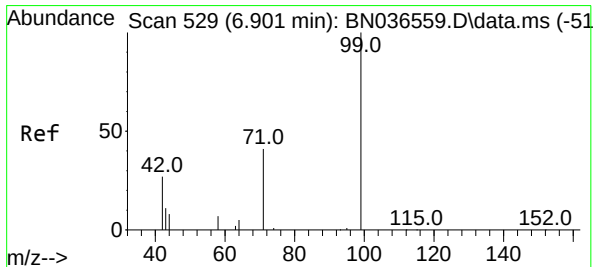
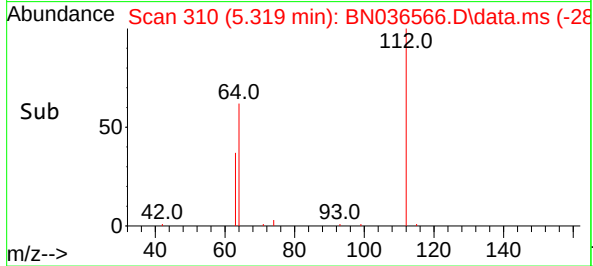
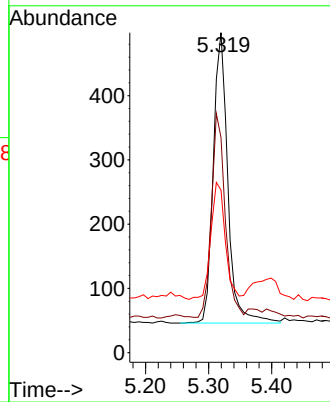
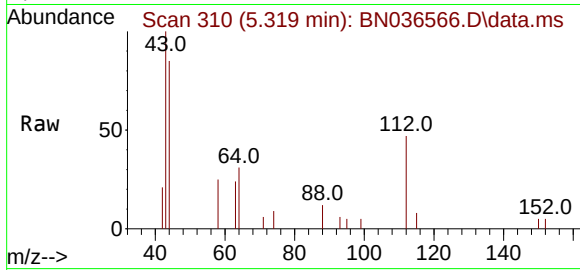




#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

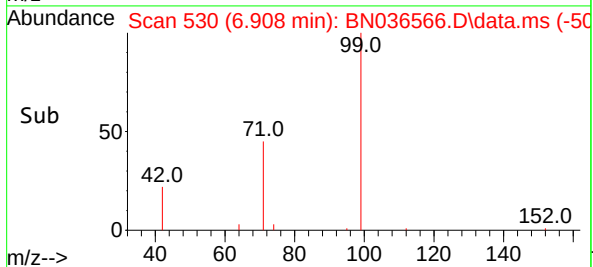
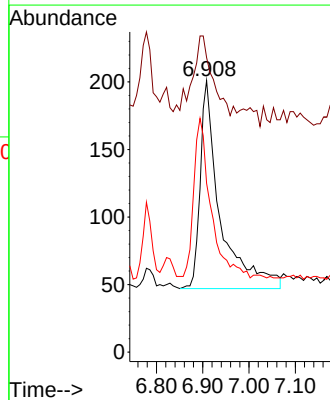
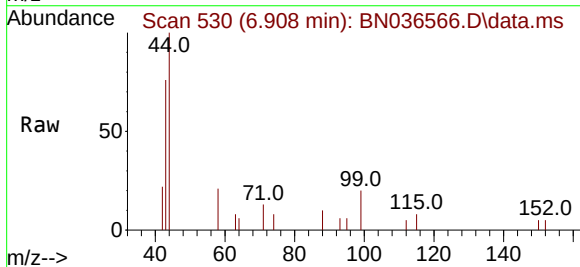
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

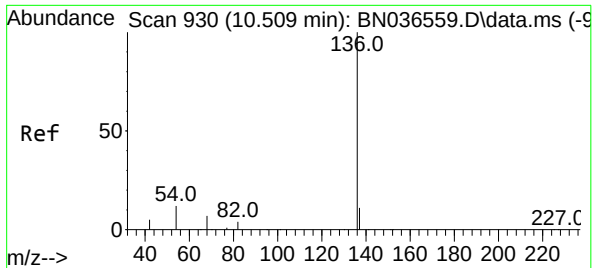
Tgt Ion:	112	Resp:	726
Ion Ratio	Lower	Upper	
112	100		
64	66.0	53.1	79.7
63	39.4	31.8	47.8



#5
Phenol-d6
Concen: 0.081 ng
RT: 6.908 min Scan# 530
Delta R.T. 0.007 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:	99	Resp:	461
Ion Ratio	Lower	Upper	
99	100		
42	38.2	26.5	39.7
71	64.6	34.1	51.1

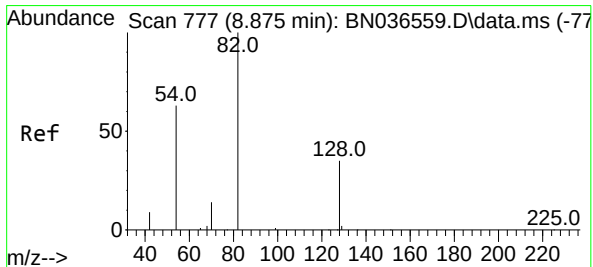
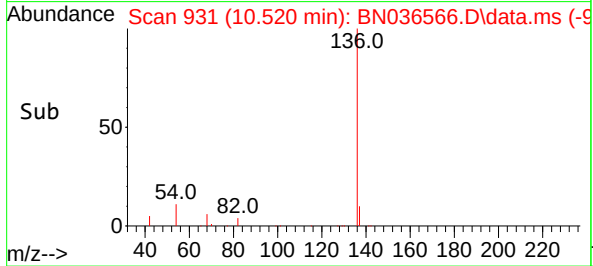
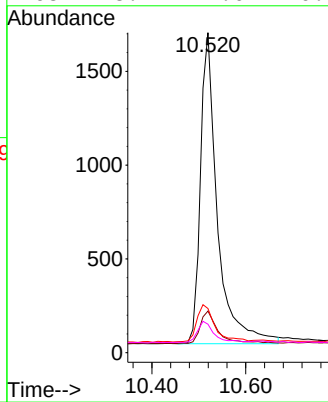
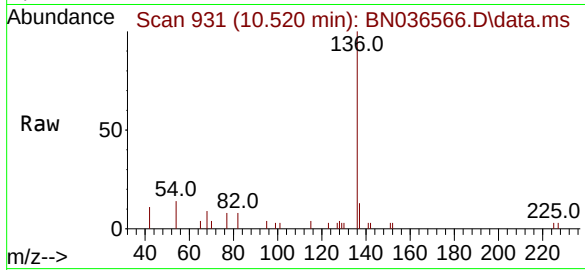




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

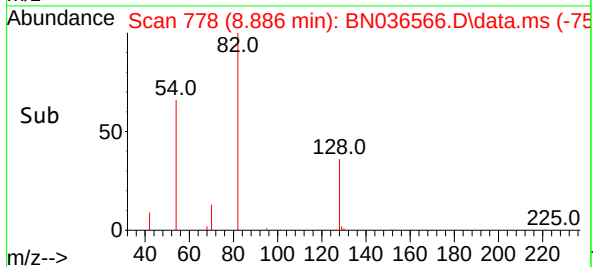
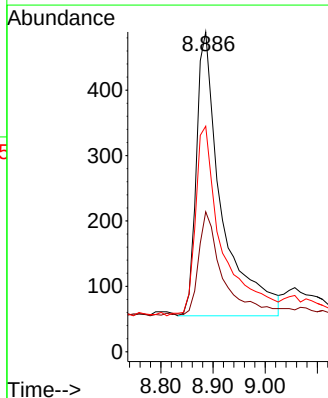
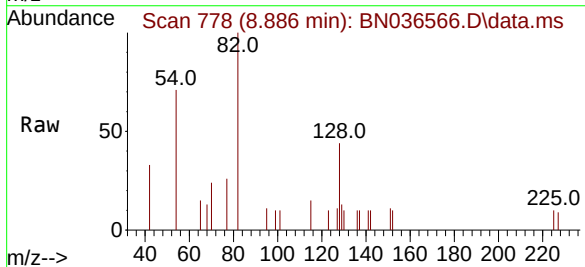
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

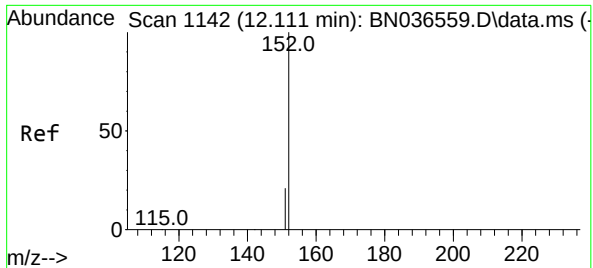
Tgt Ion:	136	Resp:	4161
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.8	11.5	17.3
68	8.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:	82	Resp:	1459
Ion	Ratio	Lower	Upper
82	100		
128	43.8	30.6	45.8
54	70.6	52.2	78.4

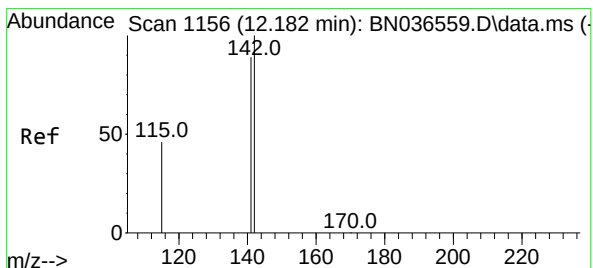
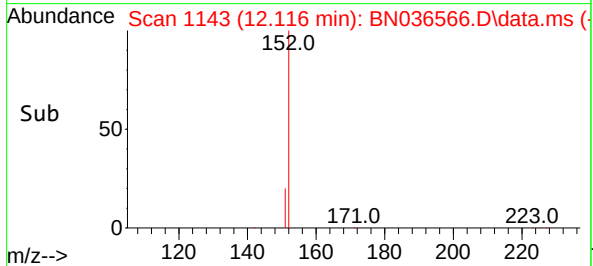
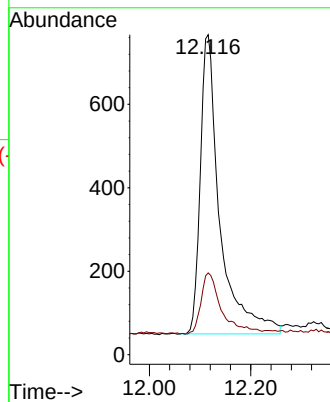
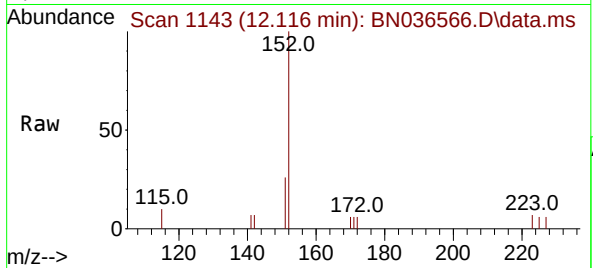




#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.005 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

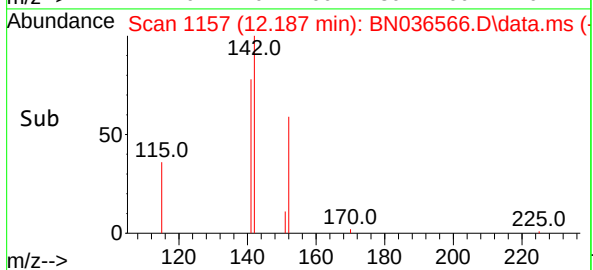
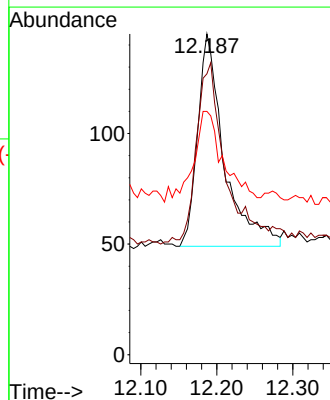
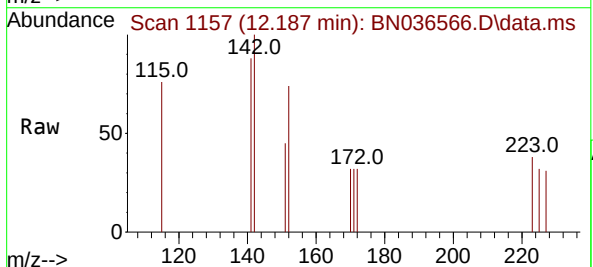
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

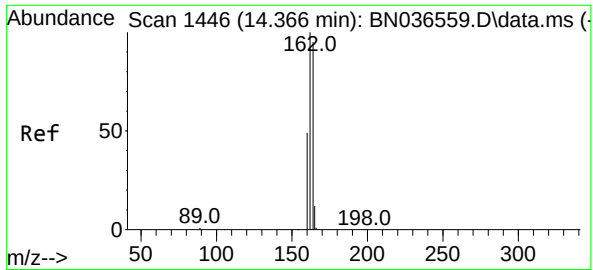
Tgt Ion:152 Resp: 1922
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.030 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:142 Resp: 234
Ion Ratio Lower Upper
142 100
141 87.6 71.7 107.5
115 75.9 38.3 57.5#

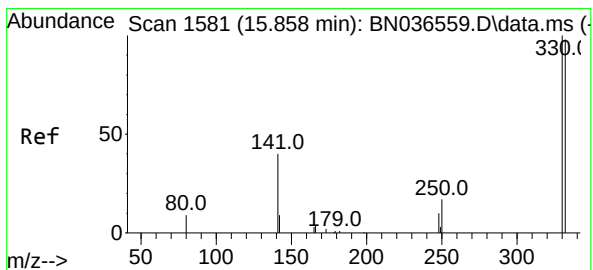
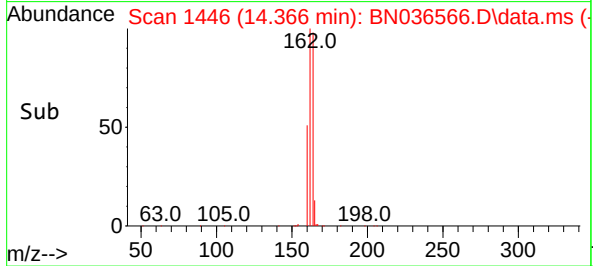
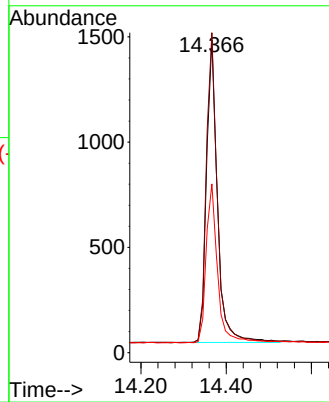
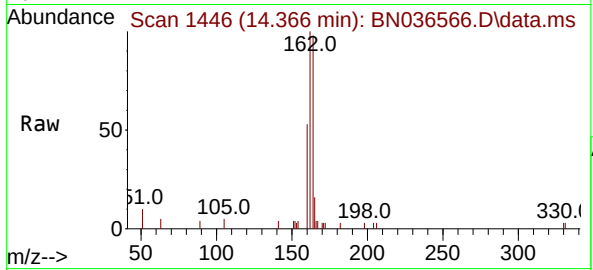




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

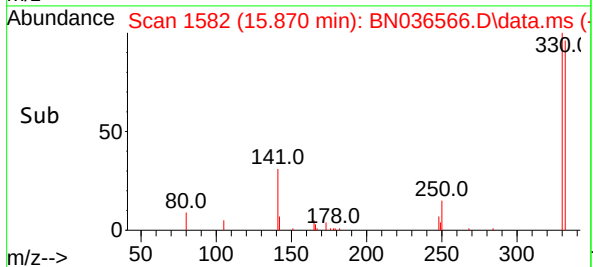
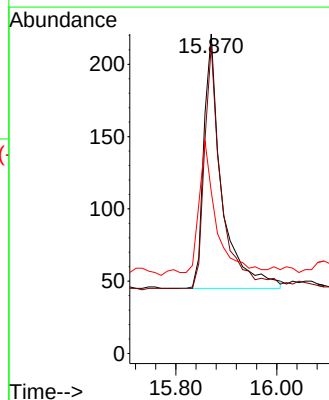
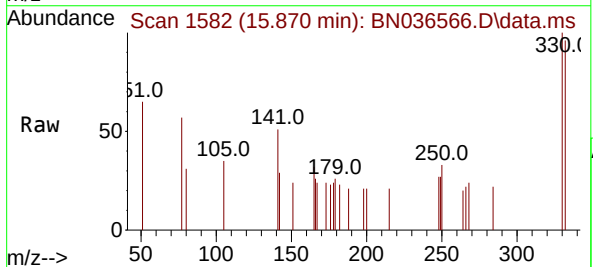
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

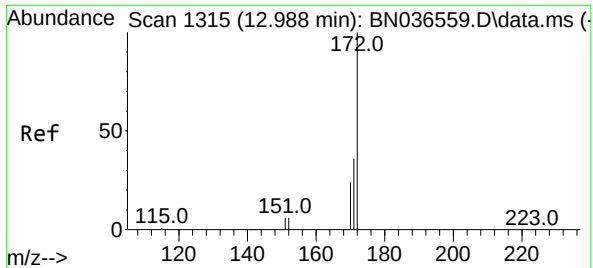
Tgt Ion:	164	Resp:	2568
Ion	Ratio	Lower	Upper
164	100		
162	102.3	84.2	126.2
160	54.0	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.374 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:	330	Resp:	436
Ion	Ratio	Lower	Upper
330	100		
332	91.1	75.2	112.8
141	47.7	43.4	65.2

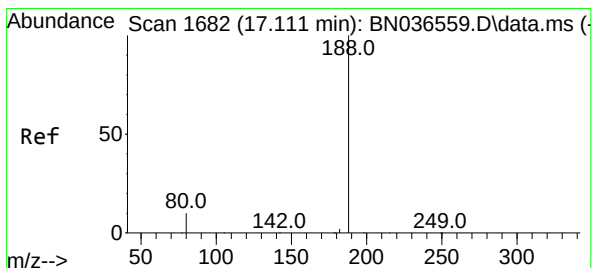
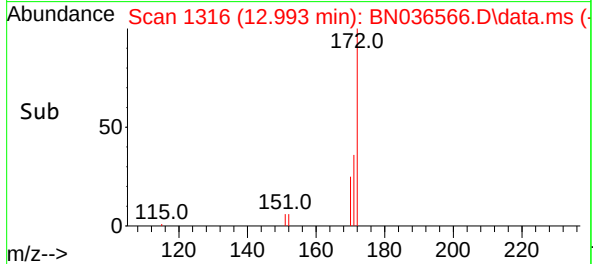
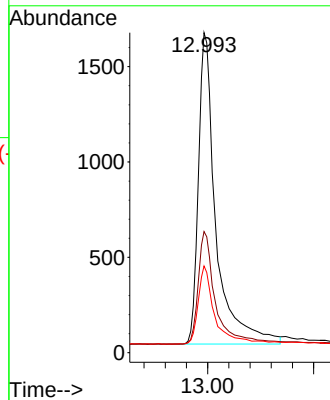
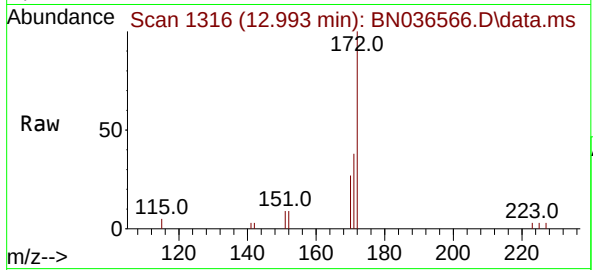




#15
2-Fluorobiphenyl
Concen: 0.320 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

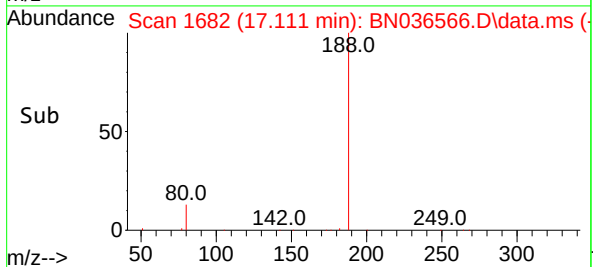
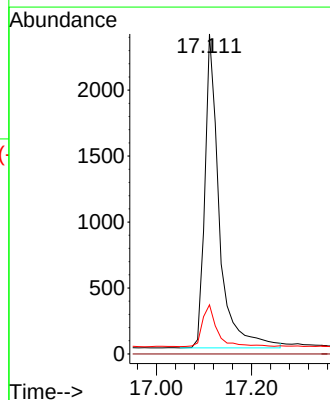
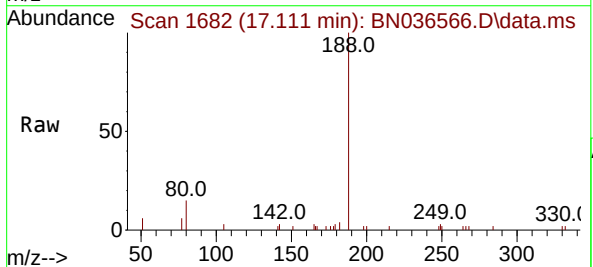
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

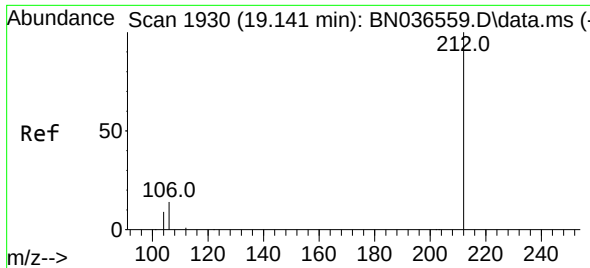
Tgt Ion:172 Resp: 4776
Ion Ratio Lower Upper
172 100
171 37.8 29.5 44.3
170 27.1 20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:188 Resp: 5031
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.3 8.8 13.2#

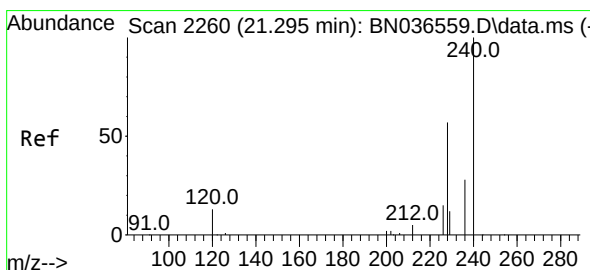
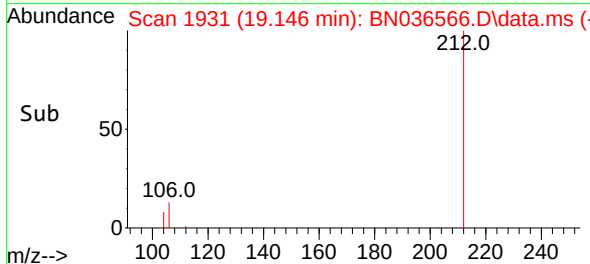
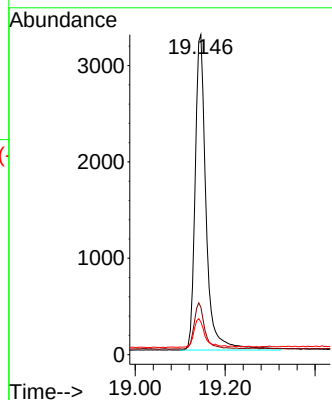
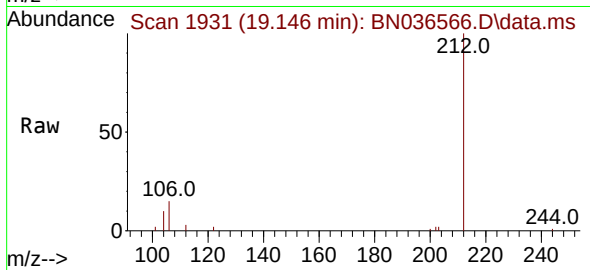




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

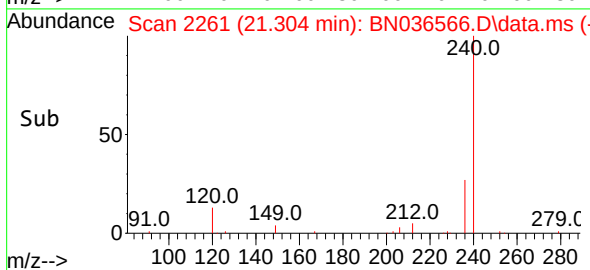
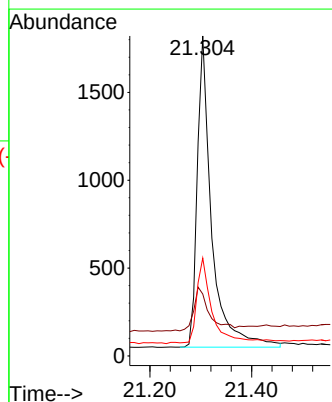
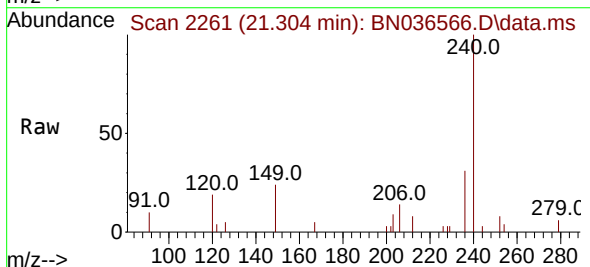
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

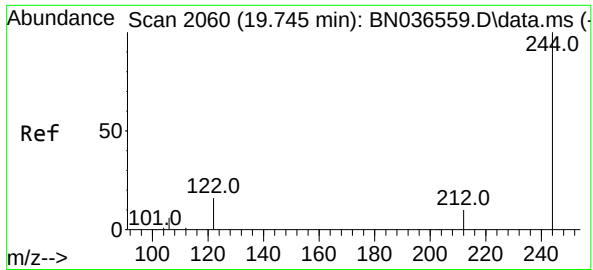
Tgt Ion:212 Resp: 5549
Ion Ratio Lower Upper
212 100
106 14.4 11.8 17.6
104 9.0 7.3 10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:240 Resp: 3465
Ion Ratio Lower Upper
240 100
120 19.3 14.6 22.0
236 30.6 24.1 36.1

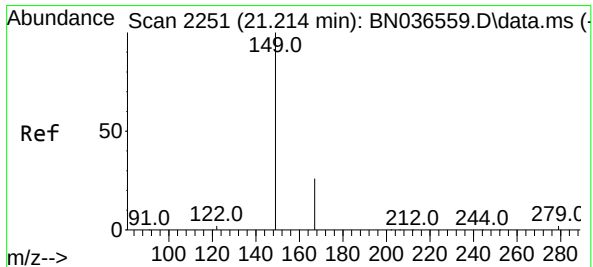
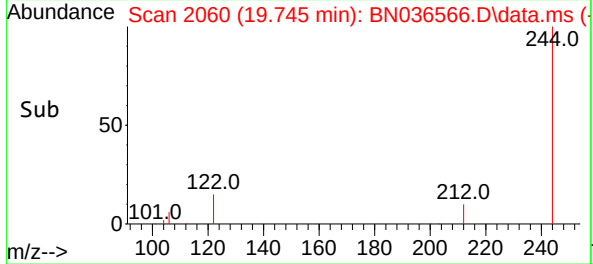
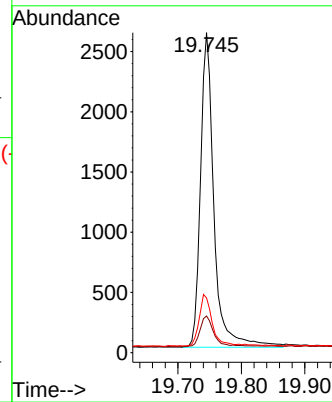
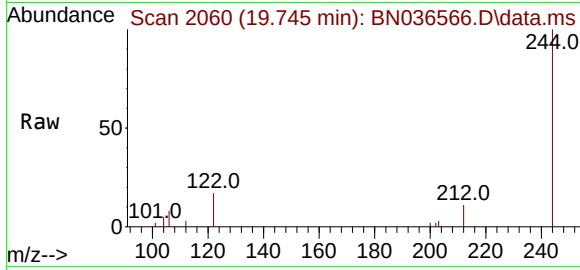




#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

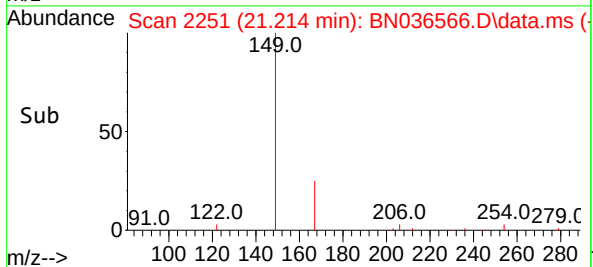
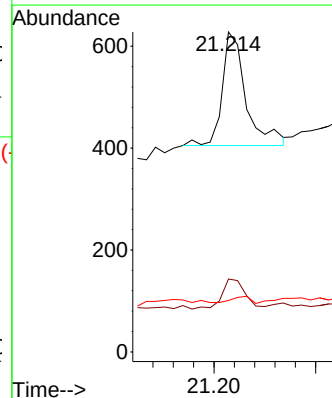
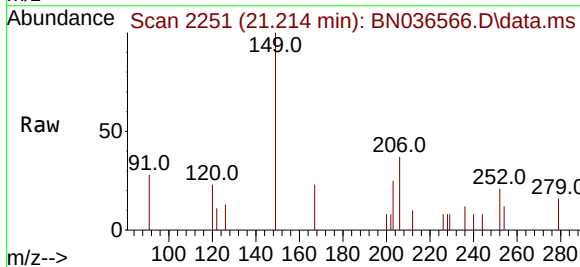
Instrument :
BNA_N
ClientSampleId :
RE122D1-20250305

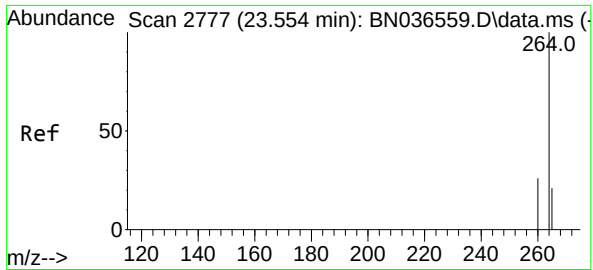
Tgt Ion:	244	Resp:	3851
Ion Ratio	Lower	Upper	
244	100		
212	11.4	9.6	14.4
122	17.1	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.042 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036566.D
Acq: 10 Mar 2025 17:50

Tgt Ion:	149	Resp:	362
Ion Ratio	Lower	Upper	
149	100		
167	26.0	20.7	31.1
279	4.7	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.560 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036566.D

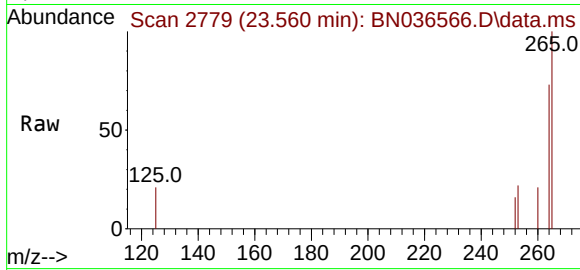
Acq: 10 Mar 2025 17:50

Instrument :

BNA_N

ClientSampleId :

RE122D1-20250305



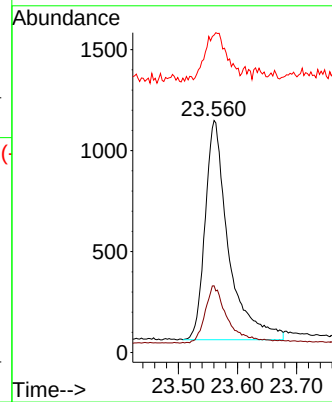
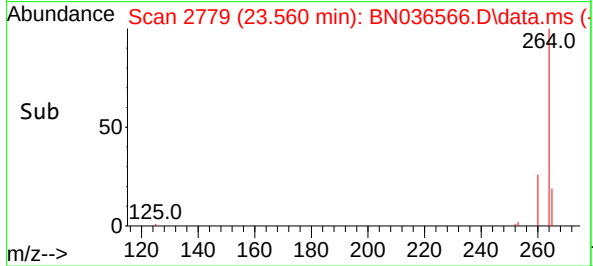
Tgt Ion:264 Resp: 2981

Ion Ratio Lower Upper

264 100

260 28.8 22.6 33.8

265 136.8 88.1 132.1#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE126D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036567.D	1	03/10/25 11:35	03/10/25 18:26	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.724				
1146-65-2	Naphthalene-d8	4080	10.519				
15067-26-2	Acenaphthene-d10	2450	14.366				
1517-22-2	Phenanthrene-d10	5130	17.111				
1719-03-5	Chrysene-d12	3750	21.304				
1520-96-3	Perylene-d12	3090	23.557				

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\BN031025\
Data File : BN036567.D
Acq On : 10 Mar 2025 18:26
Operator : RC/JU
Sample : Q1531-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

Quant Time: Mar 11 00:52:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

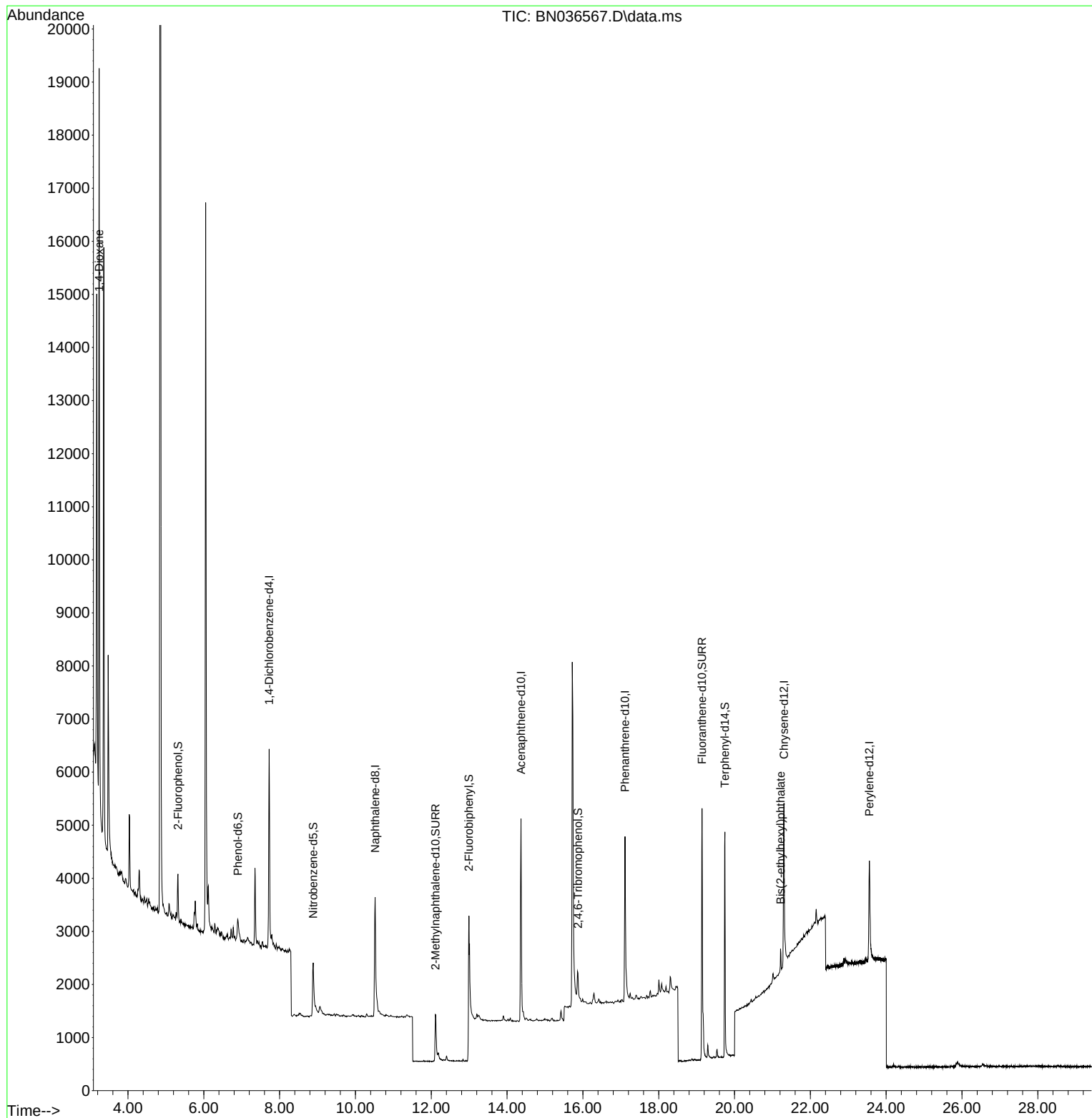
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1865	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4078	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2447	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5134	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3745	0.400	ng	0.00
35) Perylene-d12	23.557	264	3091	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	656	0.151	ng	0.00
5) Phenol-d6	6.901	99	386	0.072	ng	0.00
8) Nitrobenzene-d5	8.886	82	1357	0.306	ng	0.01
11) 2-Methylnaphthalene-d10	12.111	152	1961	0.323	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	424	0.382	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	4605	0.323	ng	0.00
27) Fluoranthene-d10	19.141	212	5825	0.443	ng	0.00
31) Terphenyl-d14	19.745	244	4241	0.473	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	7136	3.449	ng	96
34) Bis(2-ethylhexyl)phtha...	21.214	149	483	0.052	ng	# 97

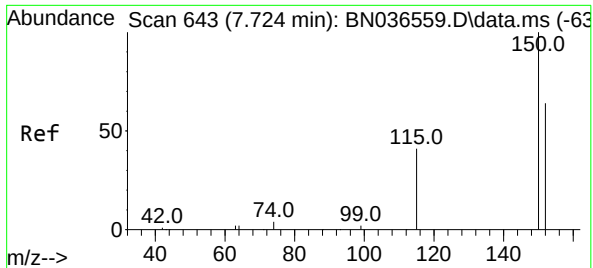
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036567.D
Acq On : 10 Mar 2025 18:26
Operator : RC/JU
Sample : Q1531-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

Quant Time: Mar 11 00:52:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

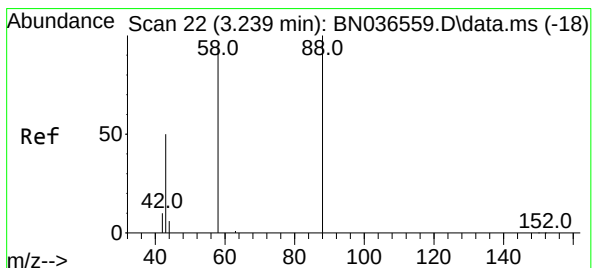
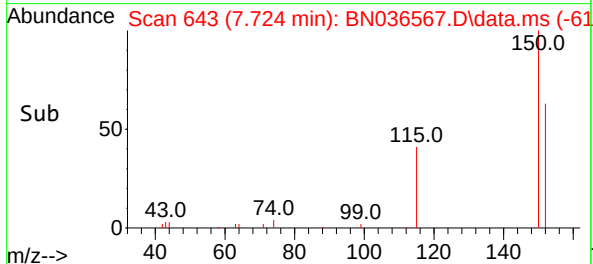
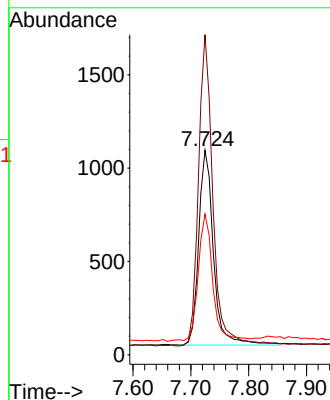
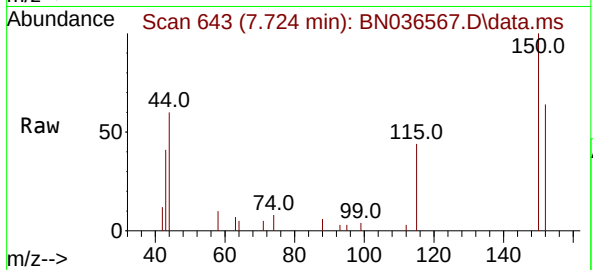




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

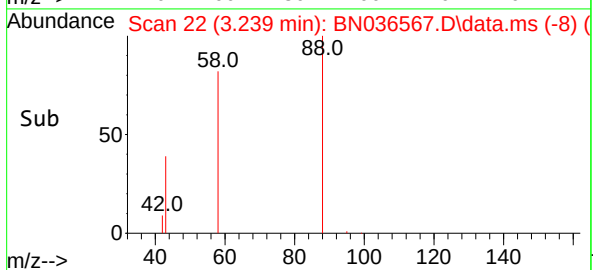
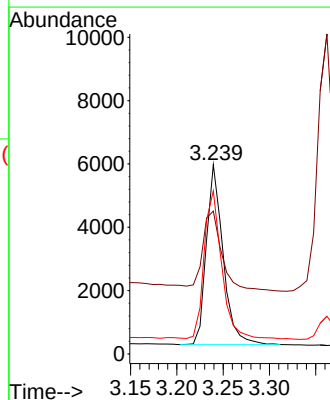
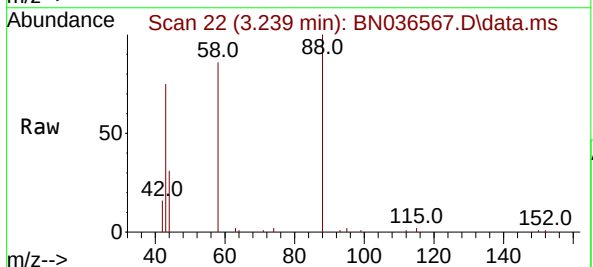
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

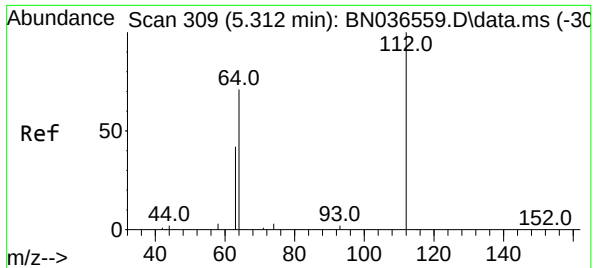
Tgt Ion:152 Resp: 1865
Ion Ratio Lower Upper
152 100
150 156.6 123.7 185.5
115 68.8 54.3 81.5



#2
1,4-Dioxane
Concen: 3.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion: 88 Resp: 7136
Ion Ratio Lower Upper
88 100
43 51.3 37.8 56.8
58 86.3 67.4 101.2

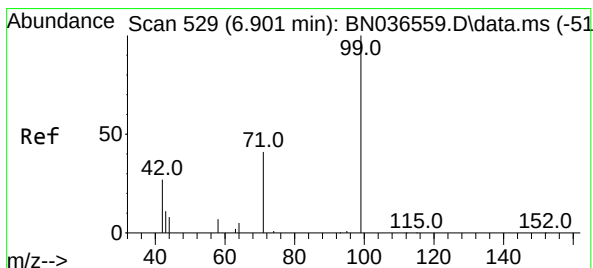
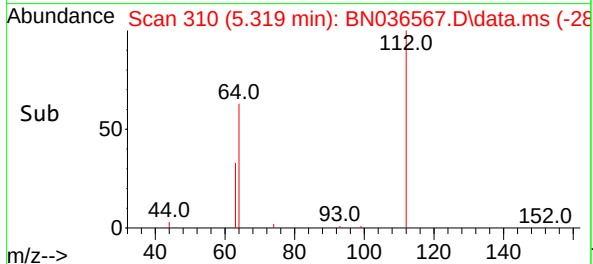
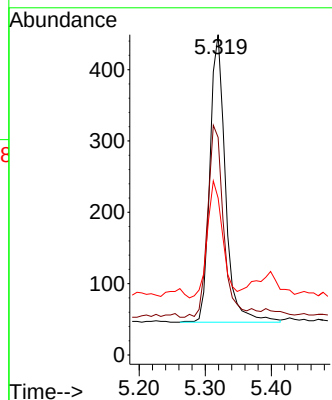
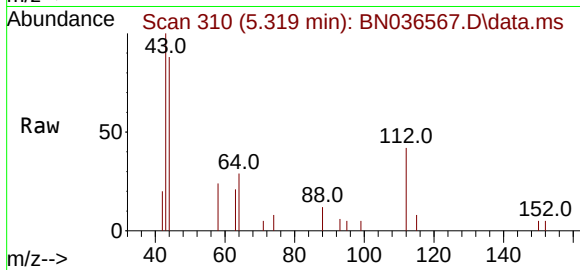




#4
2-Fluorophenol
Concen: 0.151 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

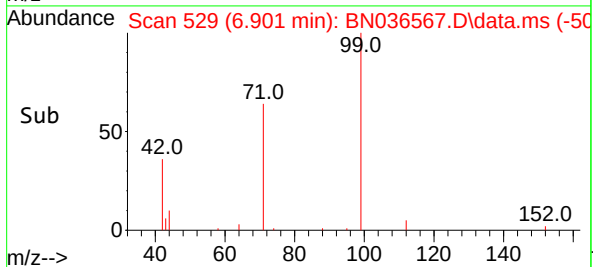
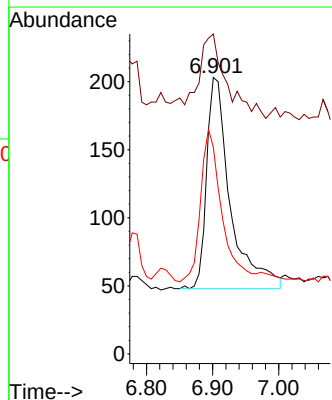
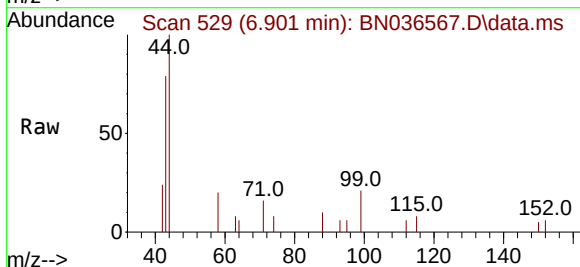
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

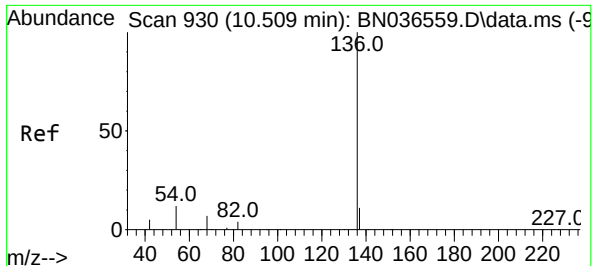
Tgt Ion:112 Resp: 656
Ion Ratio Lower Upper
112 100
64 67.4 53.1 79.7
63 39.9 31.8 47.8



#5
Phenol-d6
Concen: 0.072 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion: 99 Resp: 386
Ion Ratio Lower Upper
99 100
42 46.6 26.5 39.7#
71 64.5 34.1 51.1#

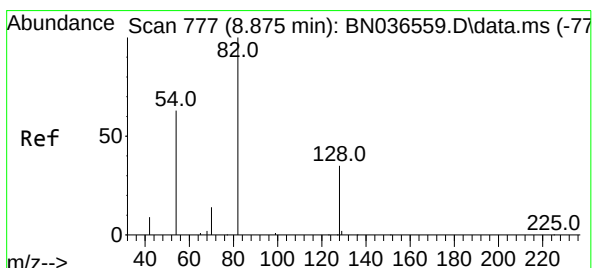
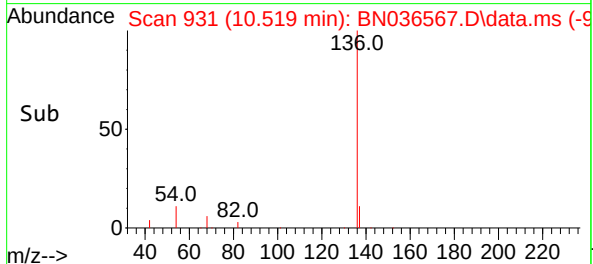
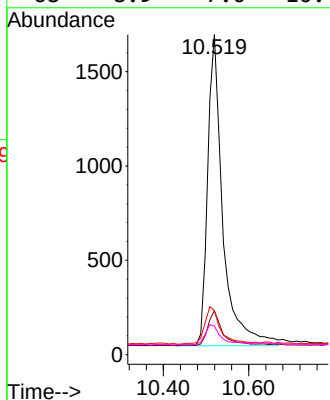
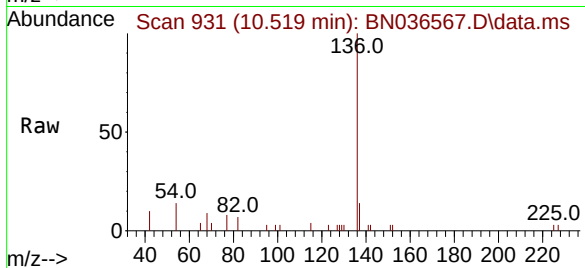




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

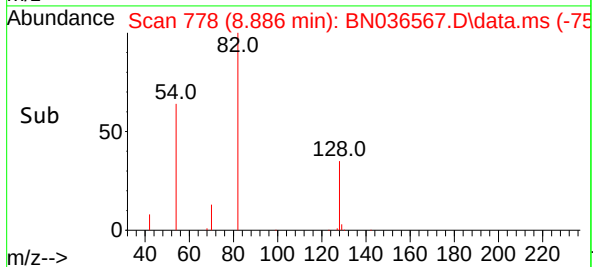
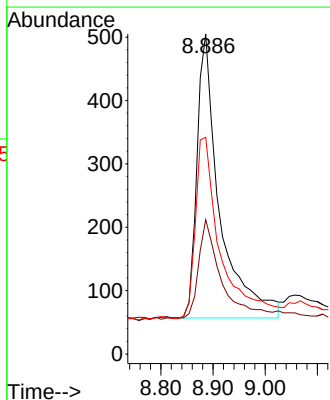
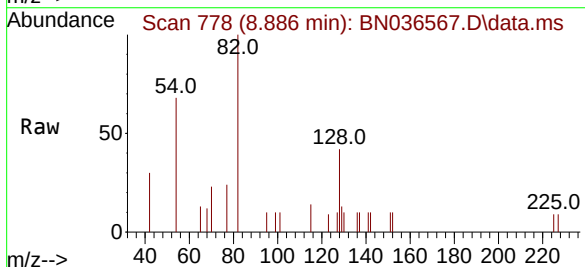
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

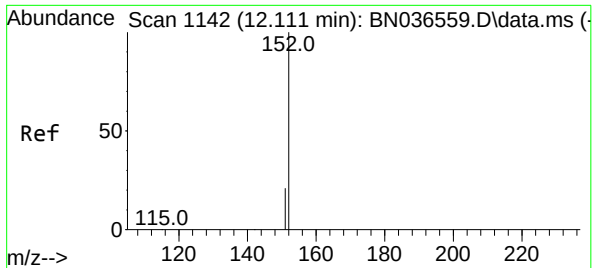
Tgt Ion:136	Resp:	4078
Ion	Ratio	Lower Upper
136	100	
137	13.7	10.3 15.5
54	13.8	11.5 17.3
68	8.9	7.0 10.4



#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion: 82	Resp:	1357
Ion	Ratio	Lower Upper
82	100	
128	42.0	30.6 45.8
54	67.7	52.2 78.4

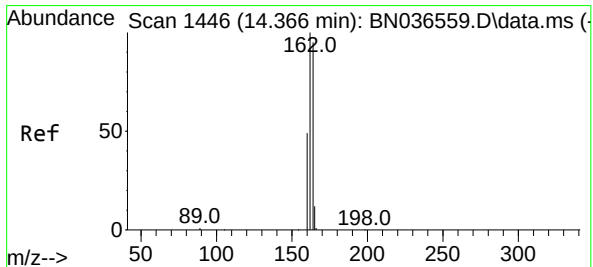
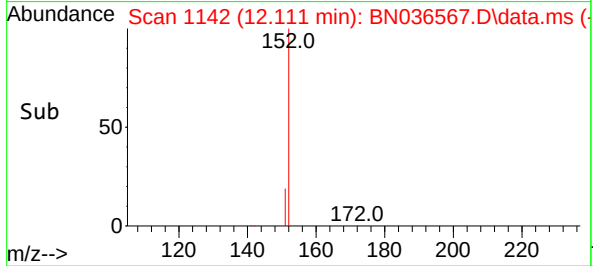
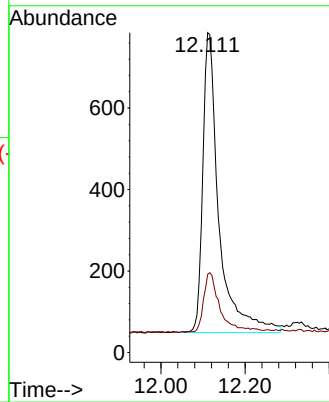
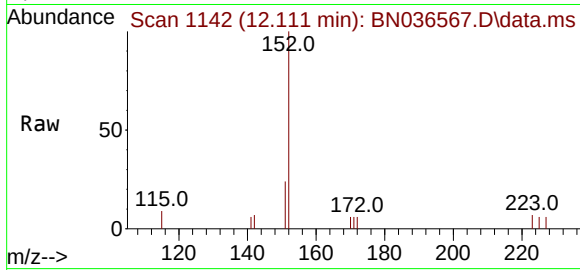




#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

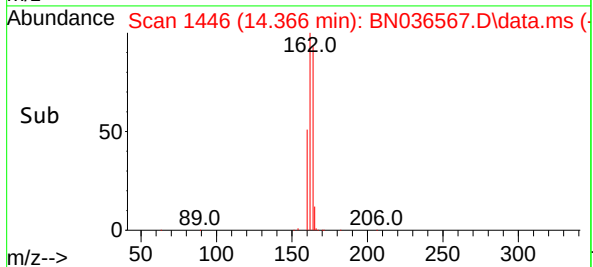
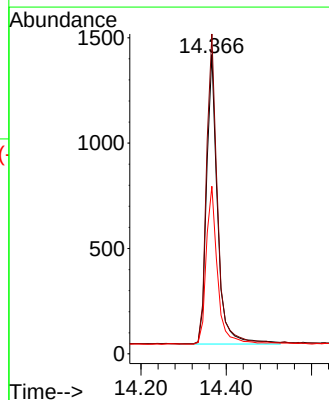
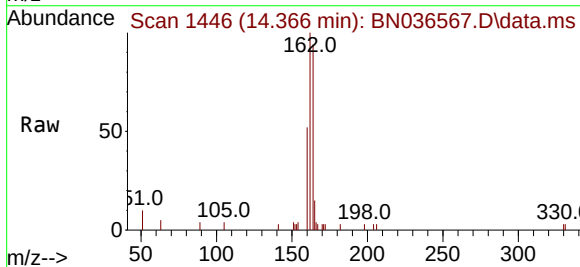
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

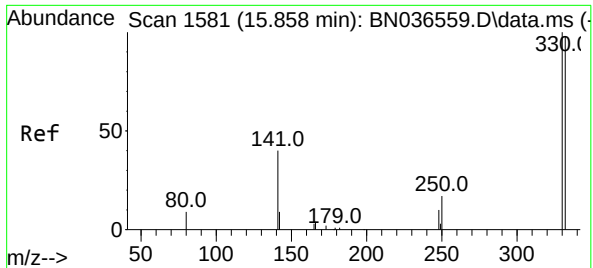
Tgt Ion:152 Resp: 1961
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion:164 Resp: 2447
Ion Ratio Lower Upper
164 100
162 106.8 84.2 126.2
160 55.9 42.2 63.2

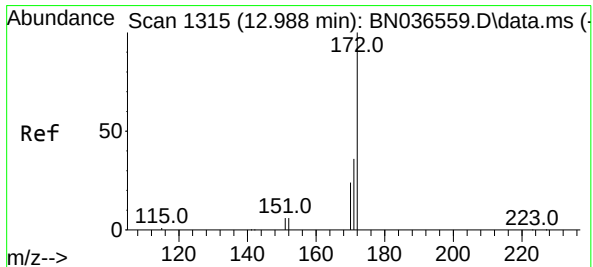
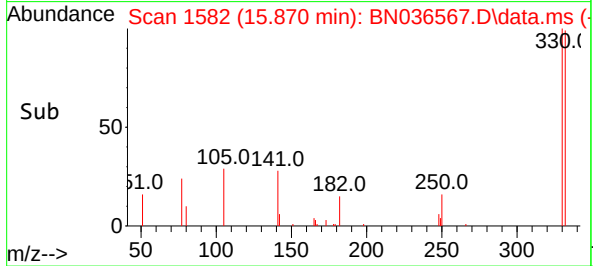
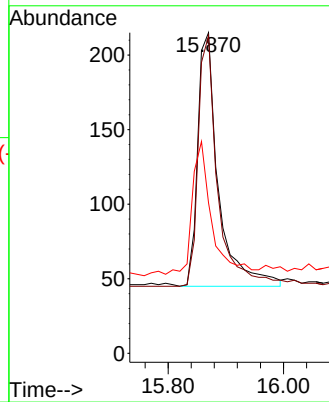
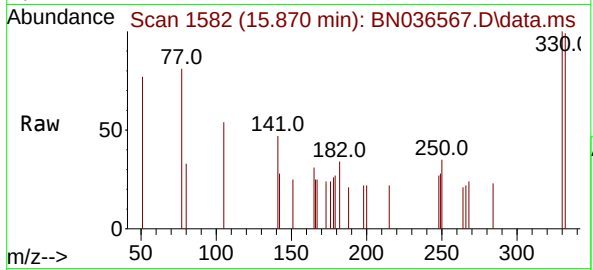




#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.870 min Scan# 1581
Delta R.T. 0.013 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

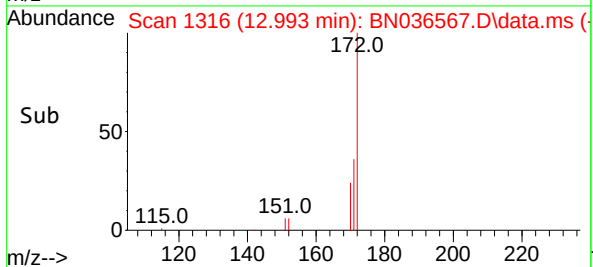
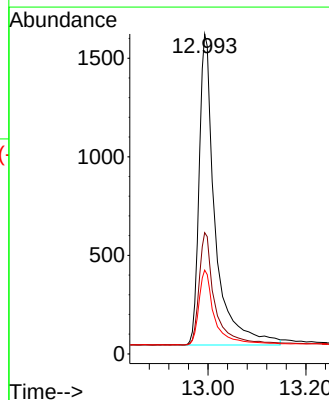
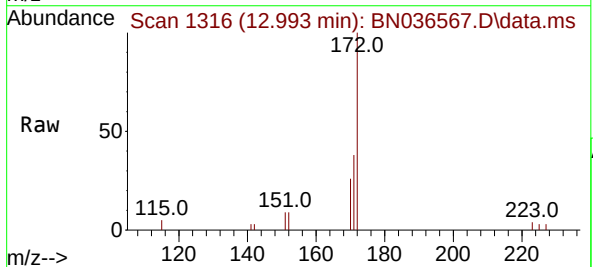
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

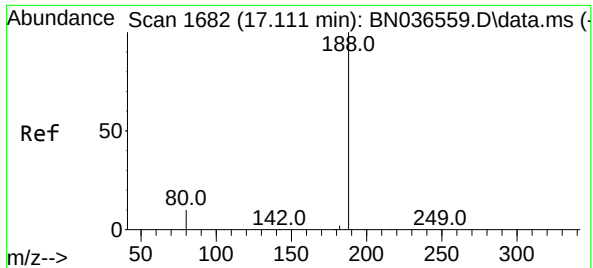
Tgt Ion:330 Resp: 424
Ion Ratio Lower Upper
330 100
332 93.6 75.2 112.8
141 51.9 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.323 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion:172 Resp: 4605
Ion Ratio Lower Upper
172 100
171 37.9 29.5 44.3
170 26.2 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036567.D

Acq: 10 Mar 2025 18:26

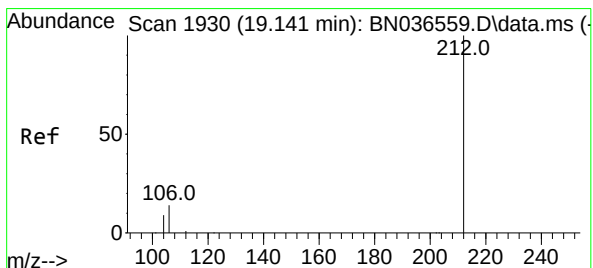
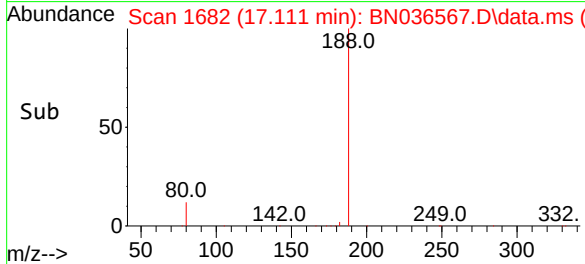
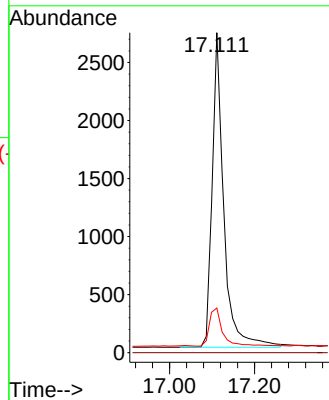
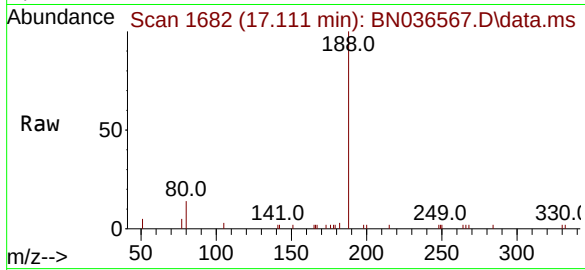
Instrument :

BNA_N

ClientSampleId :

RE126D1-20250306

Tgt Ion:	188	Resp:	5134
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	8.8	13.2#



#27

Fluoranthene-d10

Concen: 0.443 ng

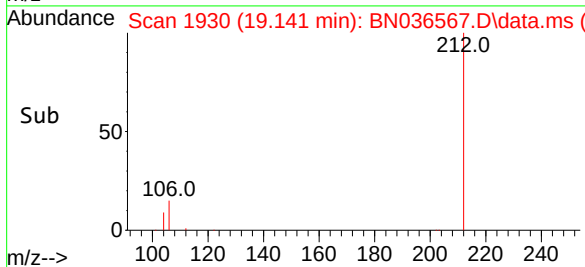
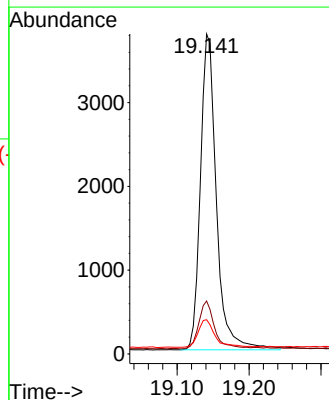
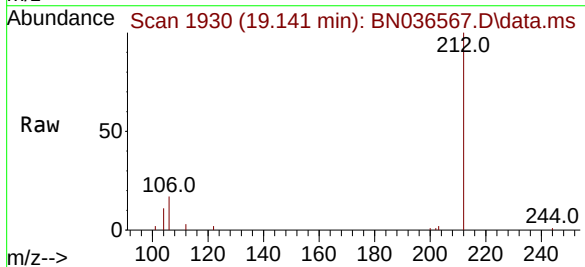
RT: 19.141 min Scan# 1930

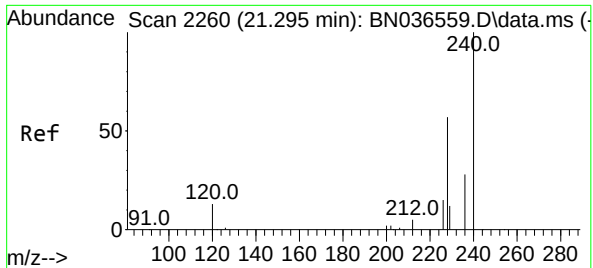
Delta R.T. 0.000 min

Lab File: BN036567.D

Acq: 10 Mar 2025 18:26

Tgt Ion:	212	Resp:	5825
Ion	Ratio	Lower	Upper
212	100		
106	15.3	11.8	17.6
104	9.3	7.3	10.9

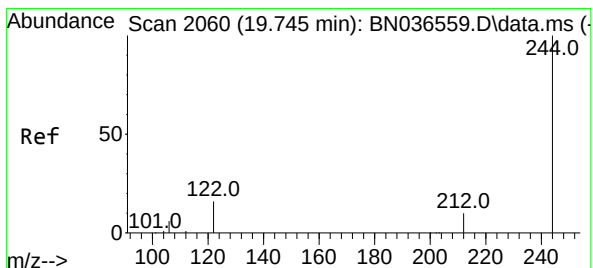
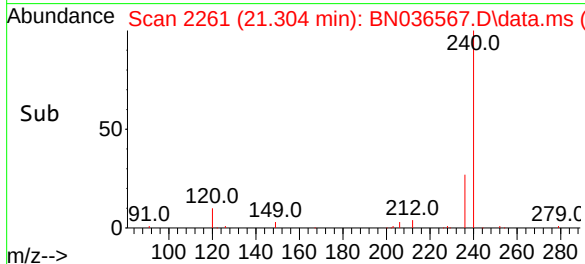
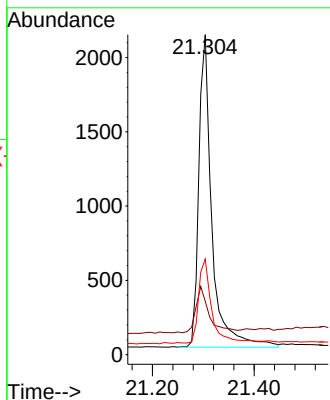
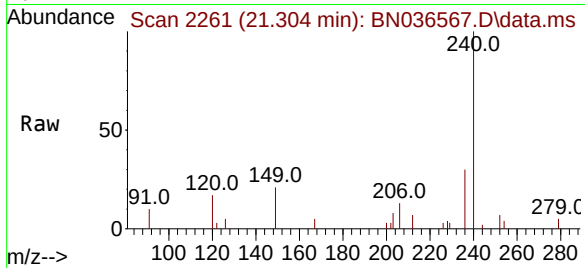




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

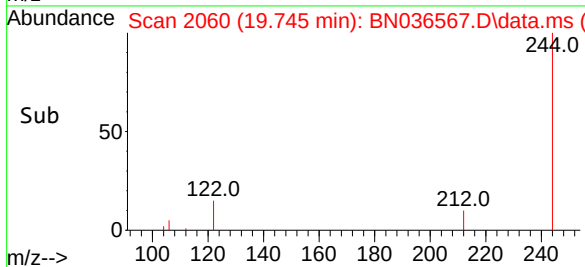
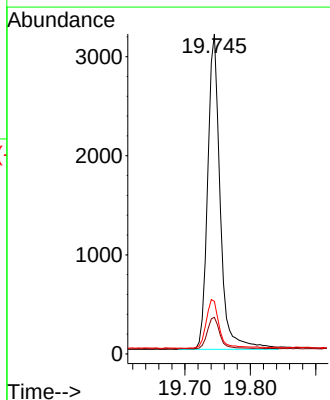
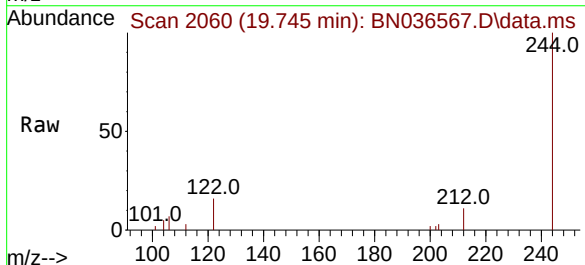
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

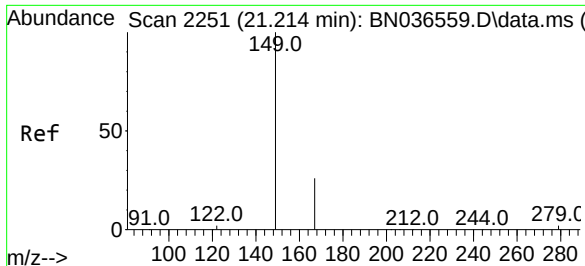
Tgt Ion:240 Resp: 3745
Ion Ratio Lower Upper
240 100
120 16.7 14.6 22.0
236 29.9 24.1 36.1



#31
Terphenyl-d14
Concen: 0.473 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion:244 Resp: 4241
Ion Ratio Lower Upper
244 100
212 11.5 9.6 14.4
122 16.4 13.9 20.9

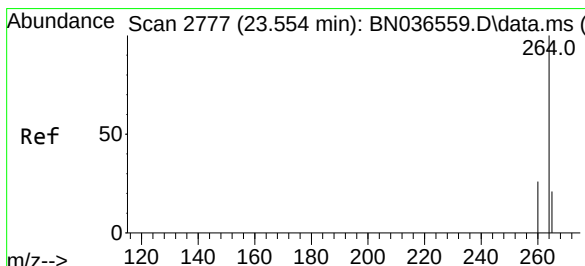
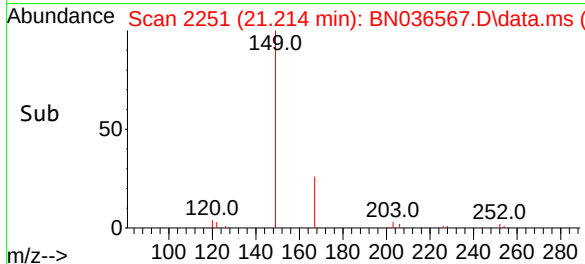
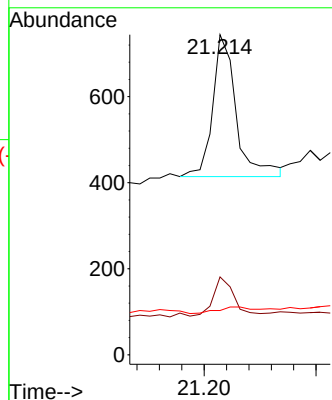
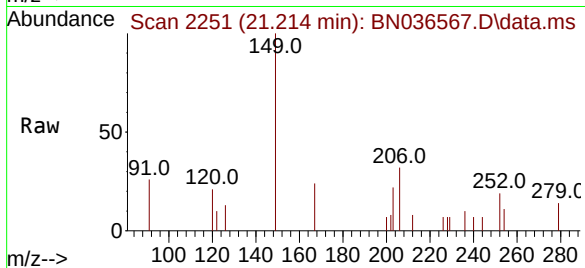




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.052 ng
RT: 21.214 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

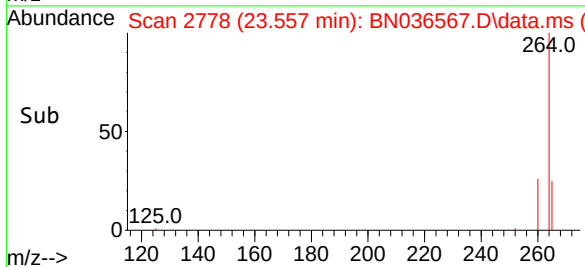
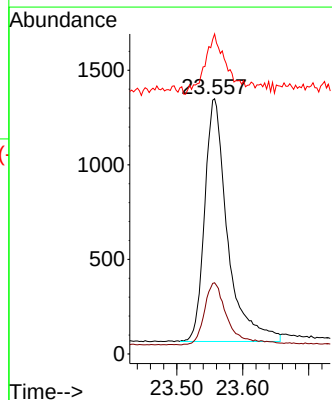
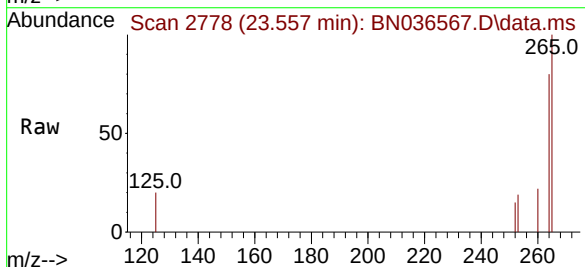
Instrument :
BNA_N
ClientSampleId :
RE126D1-20250306

Tgt Ion:149 Resp: 483
Ion Ratio Lower Upper
149 100
167 26.7 20.7 31.1
279 7.2 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036567.D
Acq: 10 Mar 2025 18:26

Tgt Ion:264 Resp: 3091
Ion Ratio Lower Upper
264 100
260 27.9 22.6 33.8
265 125.4 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE126D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	920 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
BN036568.D	1	03/10/25 11:35	03/10/25 19:02	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	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		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060	7.725				
1146-65-2	Naphthalene-d8	4560	10.52				
15067-26-2	Acenaphthene-d10	2750	14.366				
1517-22-2	Phenanthrene-d10	5630	17.111				
1719-03-5	Chrysene-d12	3900	21.304				
1520-96-3	Perylene-d12	3040	23.557				

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\BN031025\
Data File : BN036568.D
Acq On : 10 Mar 2025 19:02
Operator : RC/JU
Sample : Q1531-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

Quant Time: Mar 11 00:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

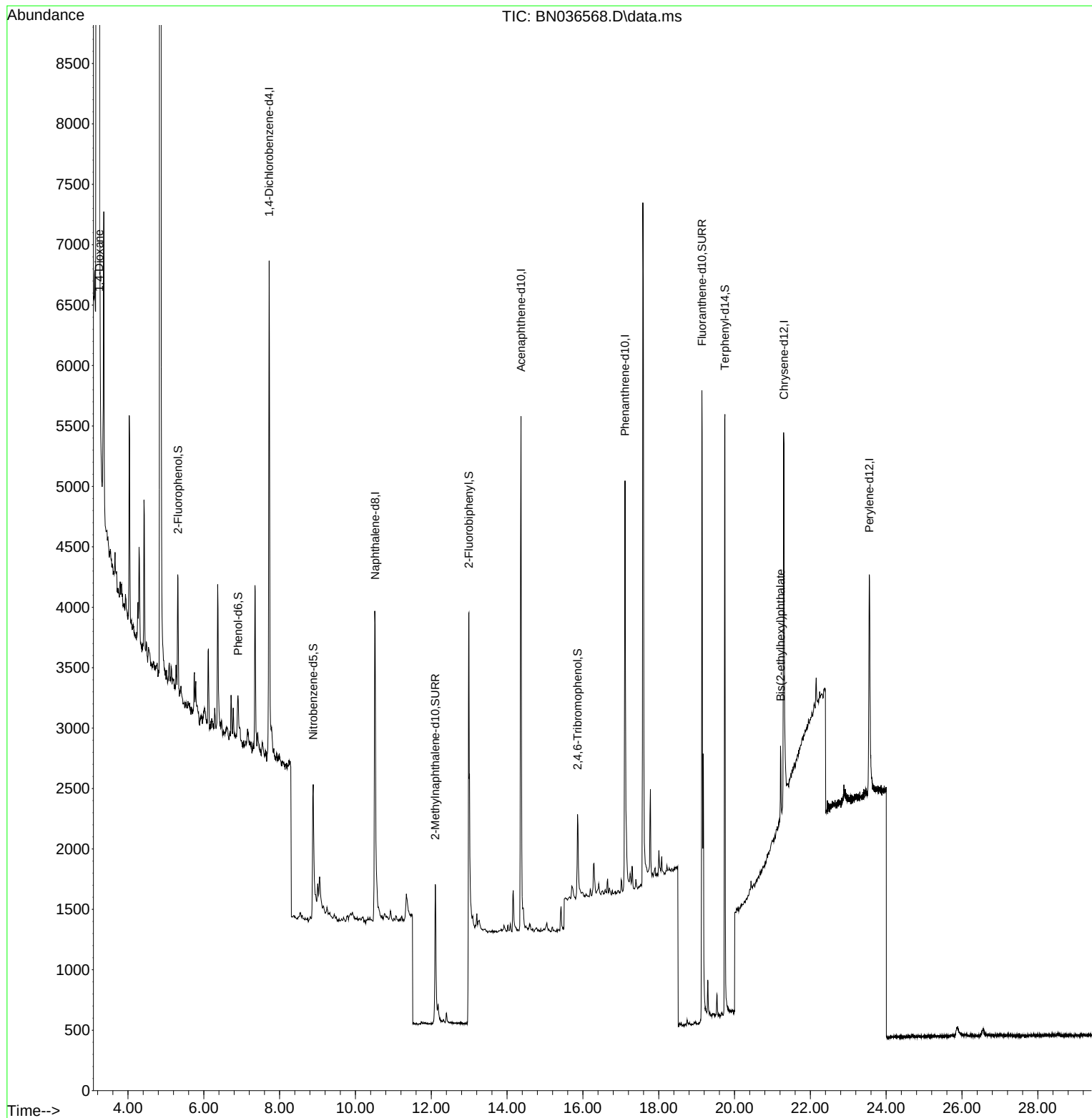
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.725	152	2064	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4561	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2745	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5634	0.400	ng	0.00
29) Chrysene-d12	21.304	240	3902	0.400	ng	0.00
35) Perylene-d12	23.557	264	3043	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.320	112	765	0.159	ng	0.00
5) Phenol-d6	6.908	99	489	0.082	ng	0.00
8) Nitrobenzene-d5	8.886	82	1487	0.300	ng	0.01
11) 2-Methylnaphthalene-d10	12.106	152	2289	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	512	0.411	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	5640	0.353	ng	0.00
27) Fluoranthene-d10	19.141	212	6472	0.448	ng	0.00
31) Terphenyl-d14	19.745	244	5051	0.540	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.240	88	8987	3.925	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	652	0.067	ng	# 96

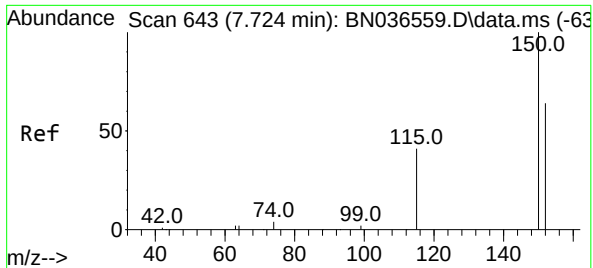
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036568.D
Acq On : 10 Mar 2025 19:02
Operator : RC/JU
Sample : Q1531-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

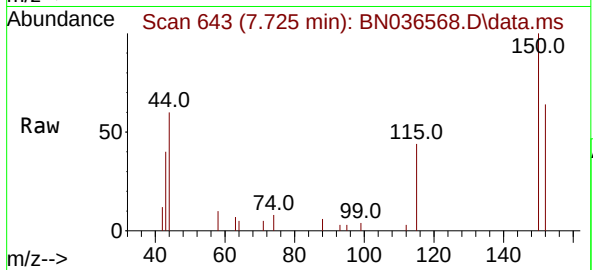
Quant Time: Mar 11 00:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



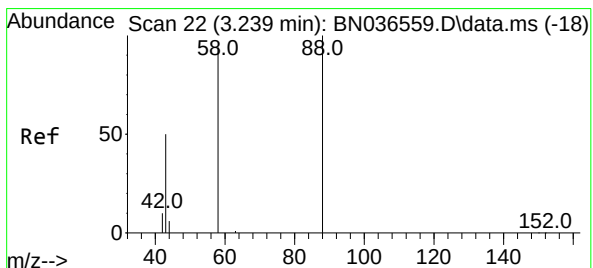
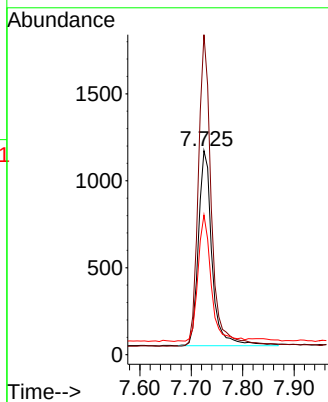
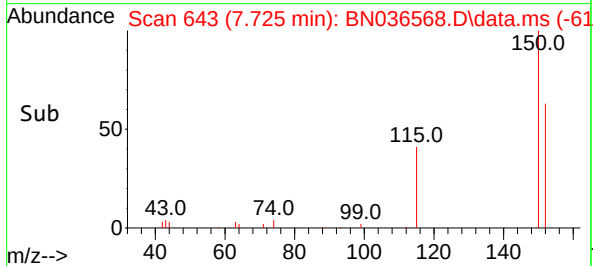


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.725 min Scan# 64
Delta R.T. 0.001 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

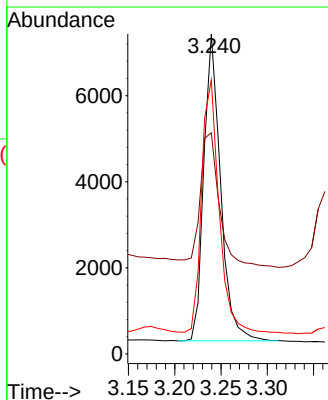
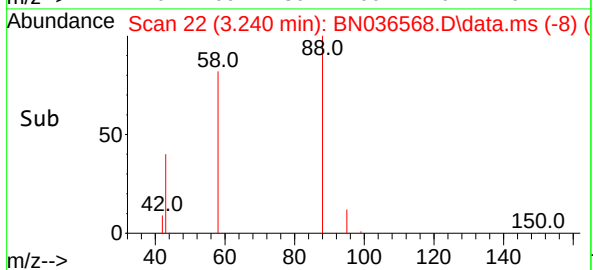
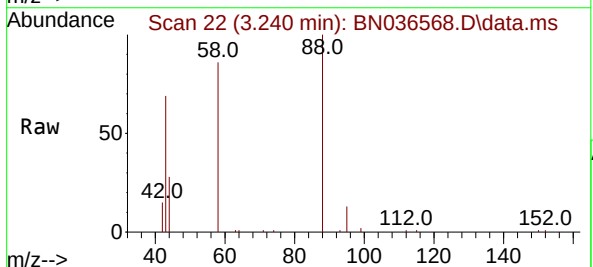


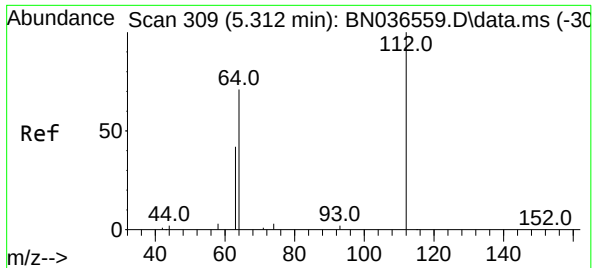
Tgt Ion:152 Resp: 2064
Ion Ratio Lower Upper
152 100
150 156.9 123.7 185.5
115 68.5 54.3 81.5



#2
1,4-Dioxane
Concen: 3.925 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.001 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion: 88 Resp: 8987
Ion Ratio Lower Upper
88 100
43 50.3 37.8 56.8
58 84.9 67.4 101.2

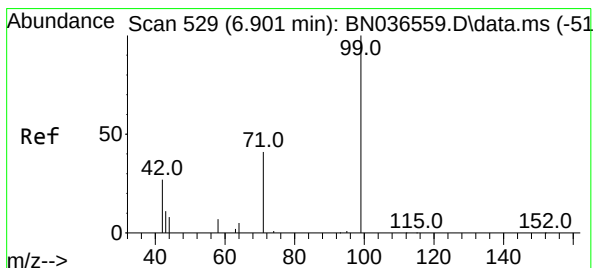
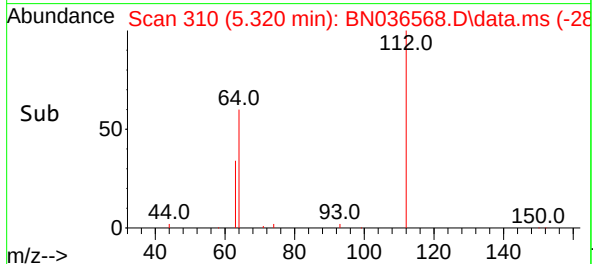
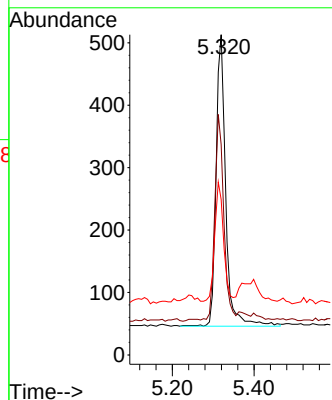
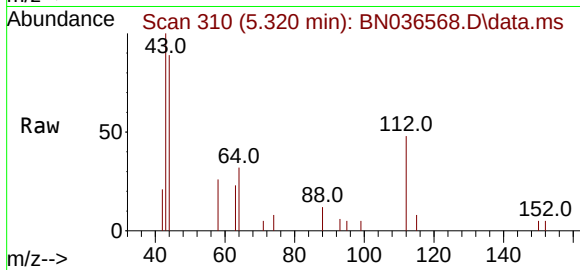




#4
2-Fluorophenol
Concen: 0.159 ng
RT: 5.320 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

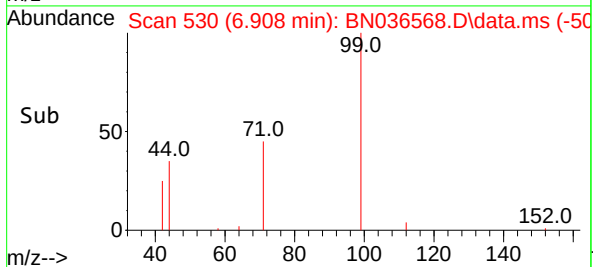
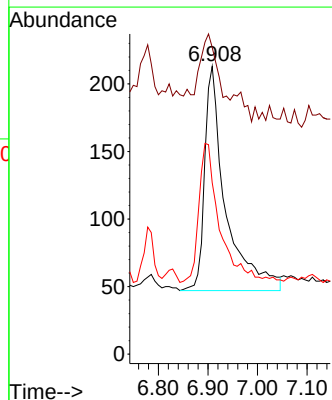
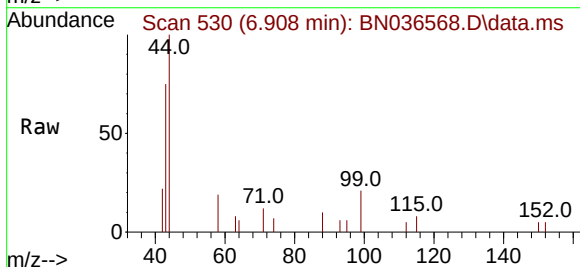
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

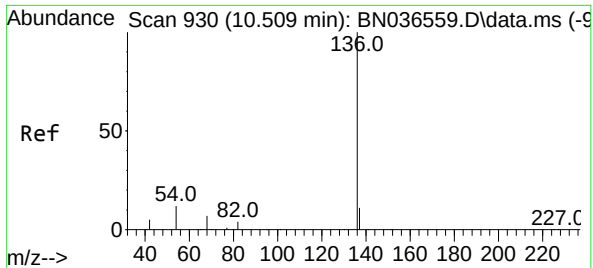
Tgt Ion: 112 Resp: 765
Ion Ratio Lower Upper
112 100
64 65.0 53.1 79.7
63 37.0 31.8 47.8



#5
Phenol-d6
Concen: 0.082 ng
RT: 6.908 min Scan# 530
Delta R.T. 0.007 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion: 99 Resp: 489
Ion Ratio Lower Upper
99 100
42 20.7 26.5 39.7#
71 60.5 34.1 51.1#

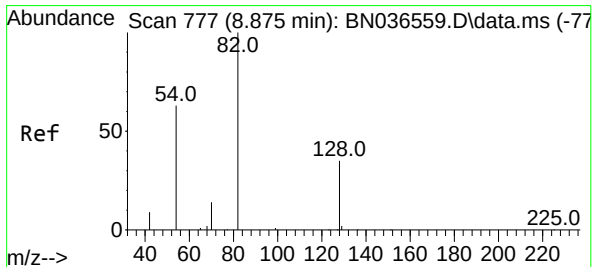
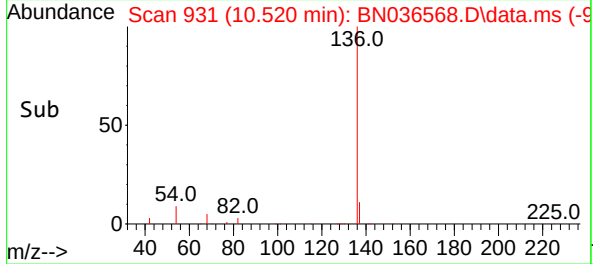
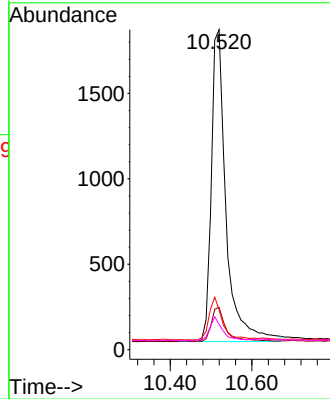
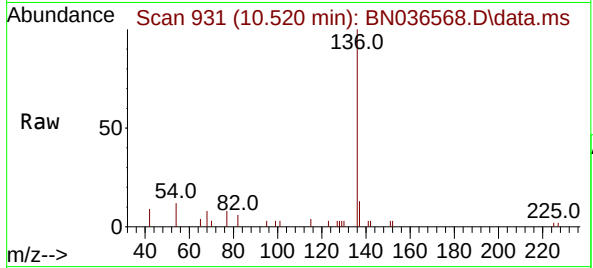




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

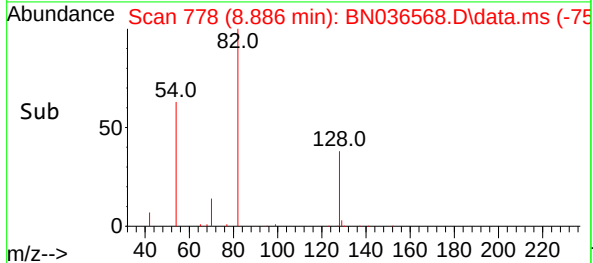
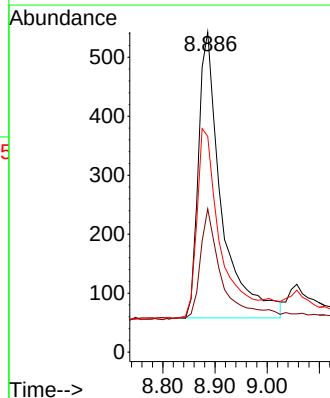
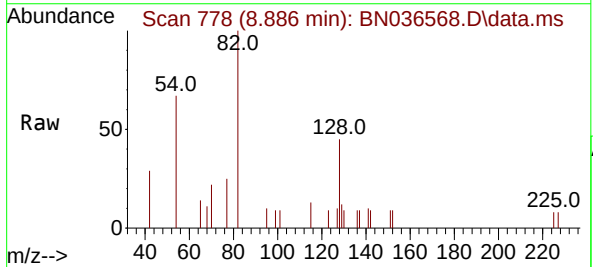
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

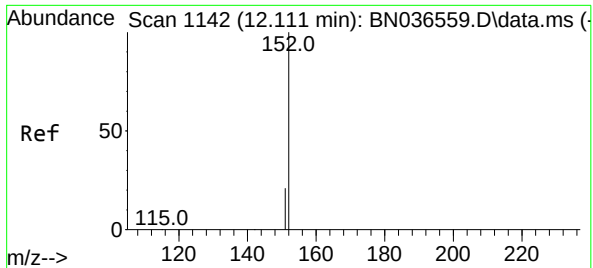
Tgt Ion:	136	Resp:	4561
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.4	11.5	17.3
68	7.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.300 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion:	82	Resp:	1487
Ion	Ratio	Lower	Upper
82	100		
128	44.8	30.6	45.8
54	67.4	52.2	78.4

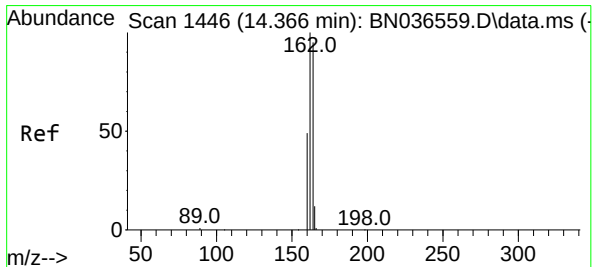
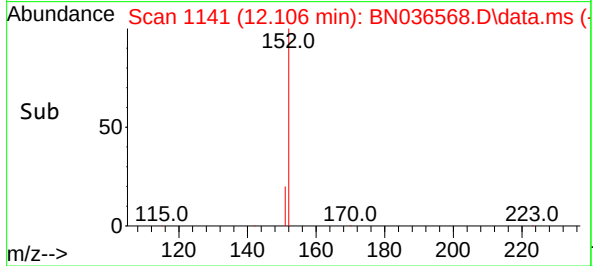
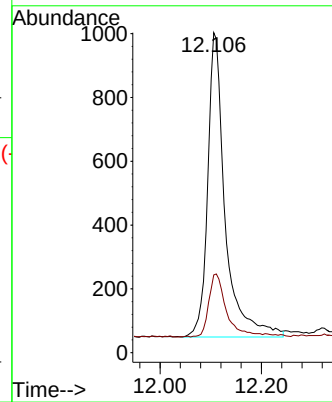
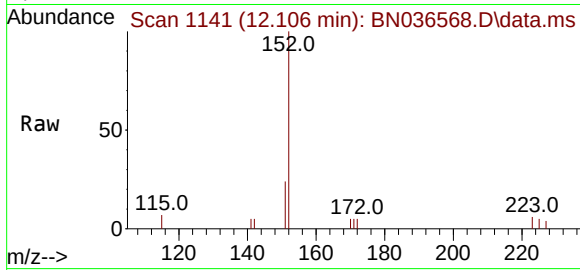




#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

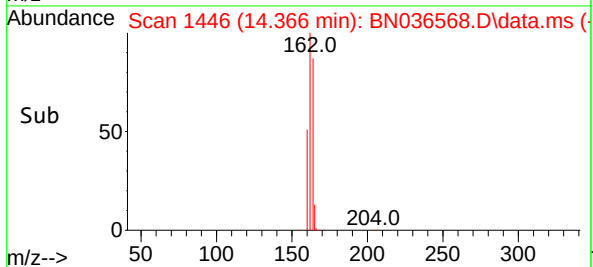
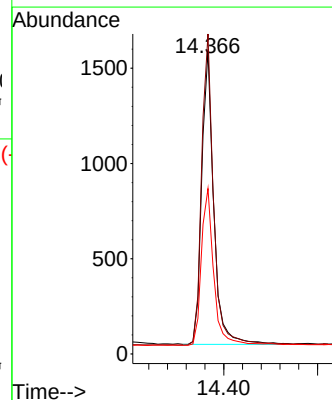
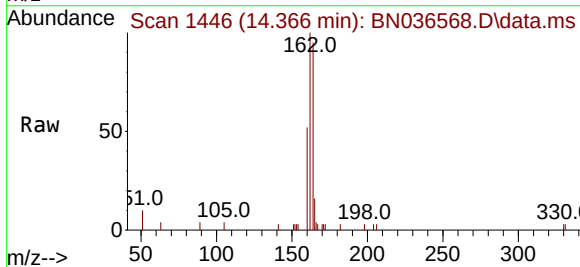
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

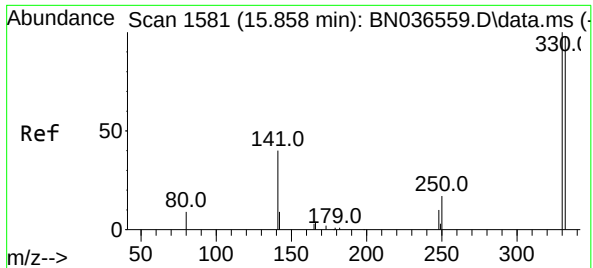
Tgt Ion:152 Resp: 2289
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion:164 Resp: 2745
Ion Ratio Lower Upper
164 100
162 105.7 84.2 126.2
160 54.7 42.2 63.2

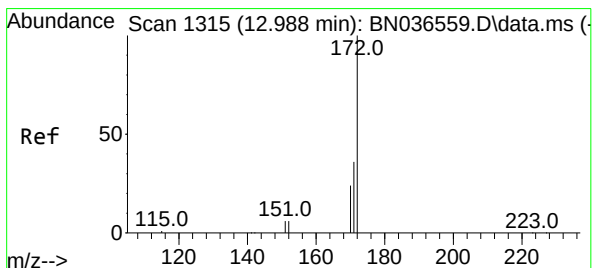
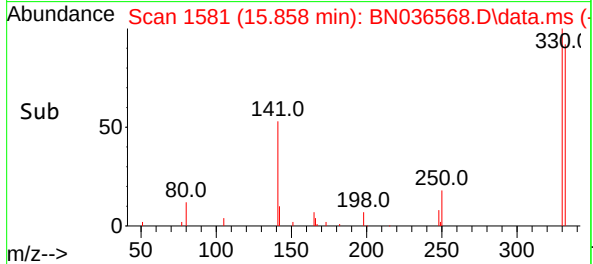
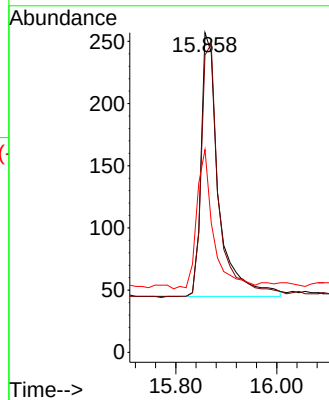
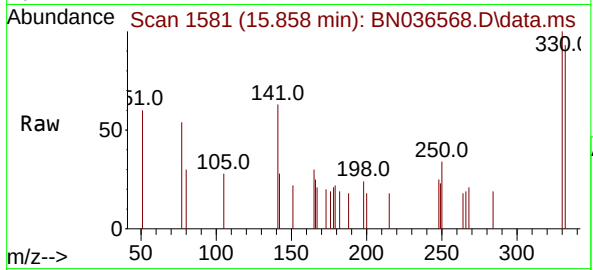




#14
2,4,6-Tribromophenol
Concen: 0.411 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

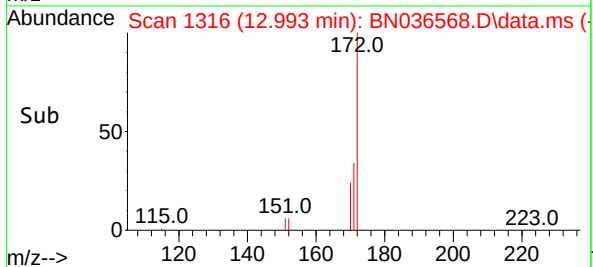
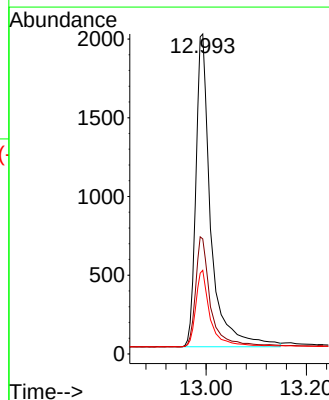
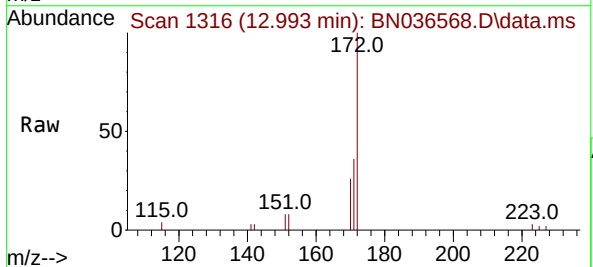
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

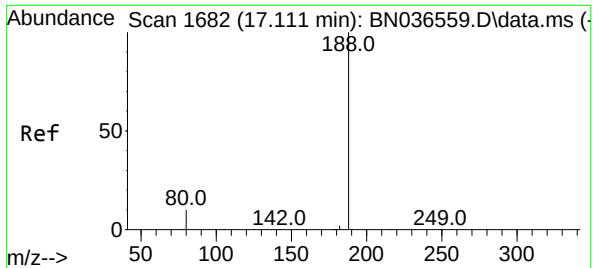
Tgt Ion:330 Resp: 512
Ion Ratio Lower Upper
330 100
332 99.4 75.2 112.8
141 50.4 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion:172 Resp: 5640
Ion Ratio Lower Upper
172 100
171 36.0 29.5 44.3
170 26.1 20.2 30.4

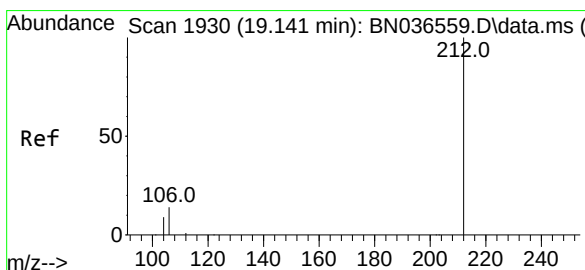
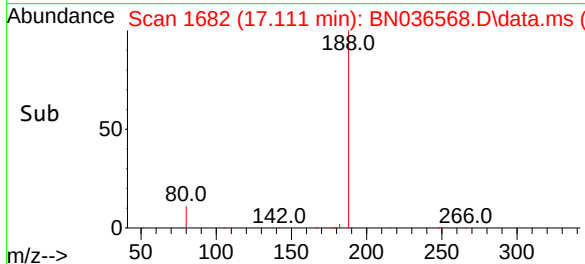
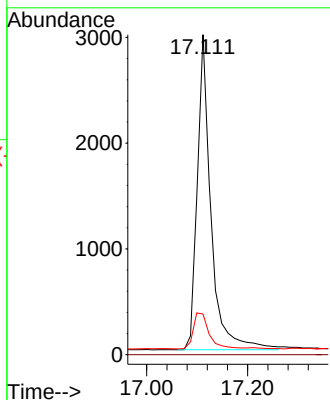
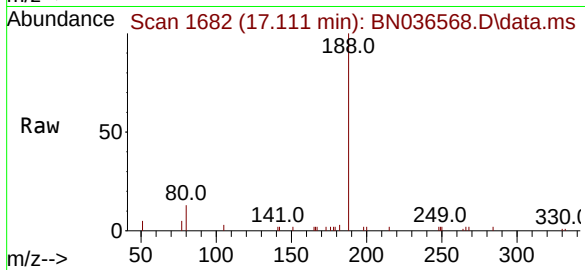




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

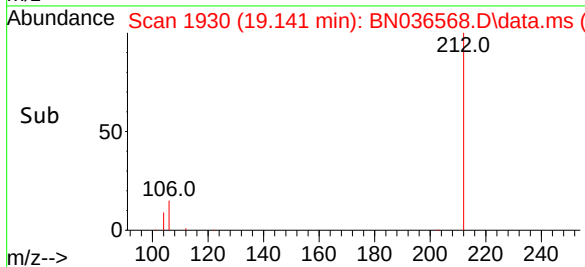
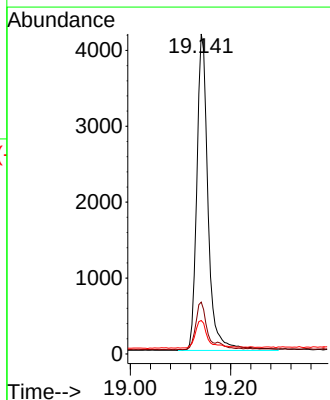
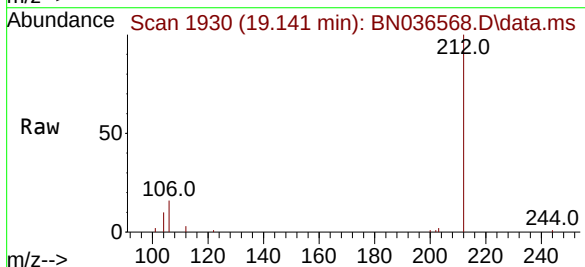
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

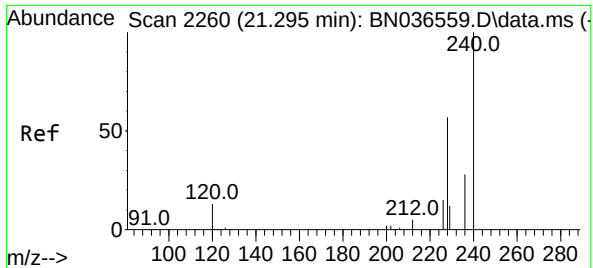
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.448 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	9.5	7.3	10.9

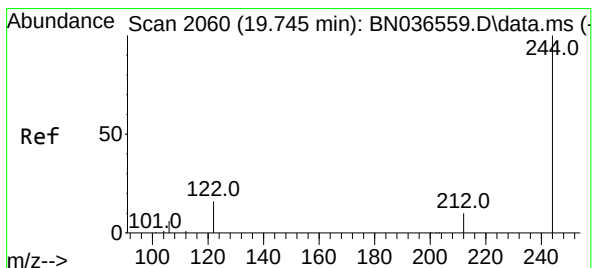
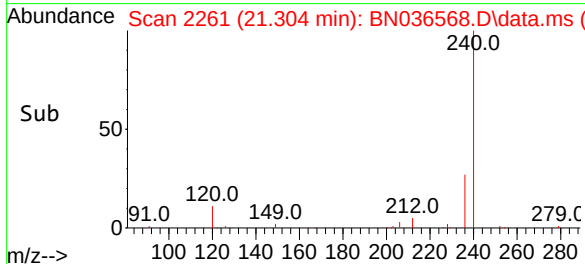
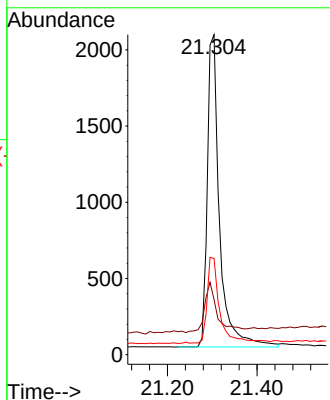
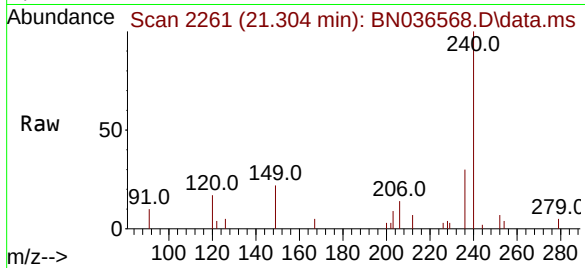




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

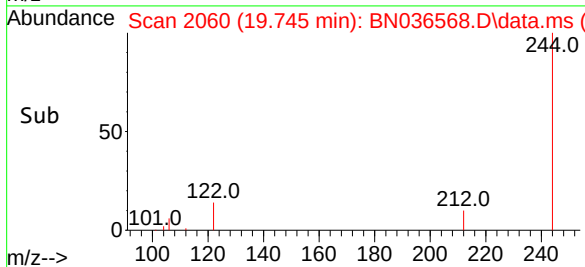
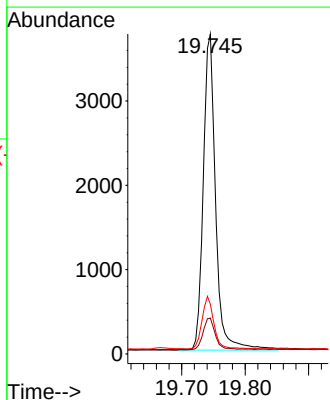
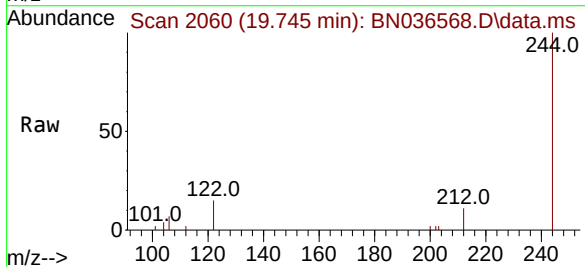
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BNA_N
ClientSampleId :
RE126D2-20250306

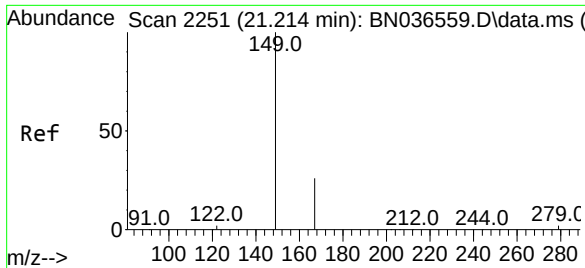
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.2	14.6	22.0
236	30.1	24.1	36.1



#31
Terphenyl-d14
Concen: 0.540 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.6	14.4
122	15.5	13.9	20.9

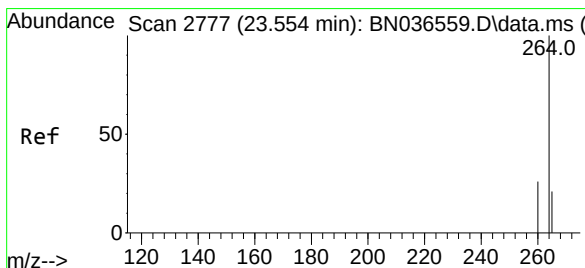
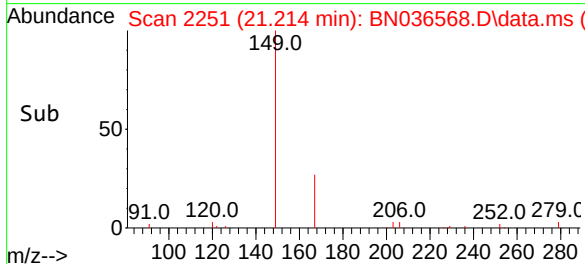
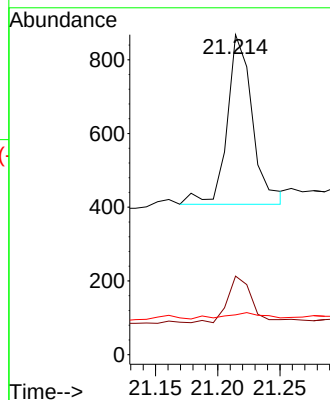
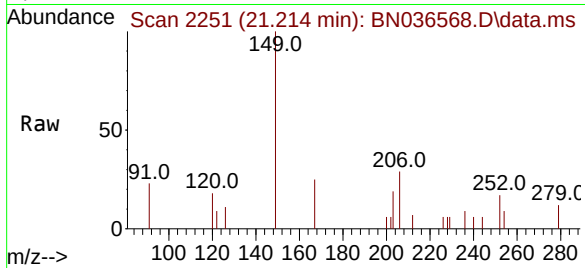




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 21.214 min Scan# 2121
Delta R.T. 0.000 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

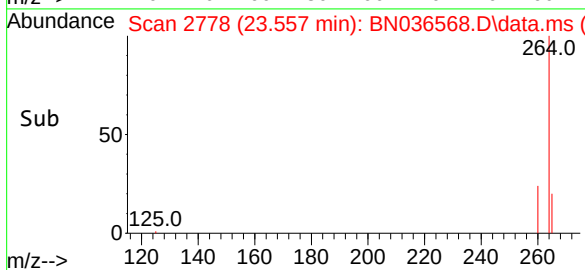
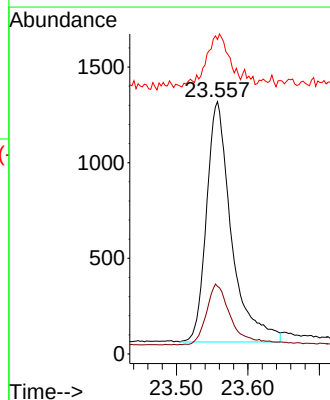
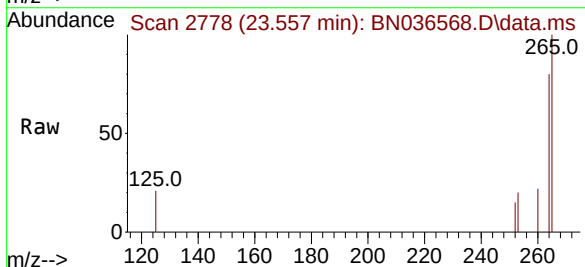
Instrument :
BNA_N
ClientSampleId :
RE126D2-20250306

Tgt Ion:149 Resp: 652
Ion Ratio Lower Upper
149 100
167 27.6 20.7 31.1
279 6.0 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036568.D
Acq: 10 Mar 2025 19:02

Tgt Ion:264 Resp: 3043
Ion Ratio Lower Upper
264 100
260 26.8 22.6 33.8
265 124.7 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	DUP01-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036569.D	1	03/10/25 11:35	03/10/25 19:38	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.60	*	58 - 132		149%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2290	7.724				
1146-65-2	Naphthalene-d8	4880	10.519				
15067-26-2	Acenaphthene-d10	2910	14.366				
1517-22-2	Phenanthrene-d10	5570	17.111				
1719-03-5	Chrysene-d12	3910	21.304				
1520-96-3	Perylene-d12	3420	23.557				

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\BN031025\
 Data File : BN036569.D
 Acq On : 10 Mar 2025 19:38
 Operator : RC/JU
 Sample : Q1531-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250306

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
 Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 11 00:52:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2291	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4880	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2910	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5566	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3909	0.400	ng	0.00
35) Perylene-d12	23.557	264	3415	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	829	0.155	ng	0.00
5) Phenol-d6	6.901	99	554	0.084	ng	0.00
8) Nitrobenzene-d5	8.875	82	1737	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	12.116	152	2265	0.312	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	500	0.379	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5235	0.309	ng	0.00
27) Fluoranthene-d10	19.141	212	6371	0.447	ng	0.00
31) Terphenyl-d14	19.740	244	5588	0.597	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	9449	3.718	ng	Qvalue 98
34) Bis(2-ethylhexyl)phtha...	21.214	149	544m	0.056	ng	

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

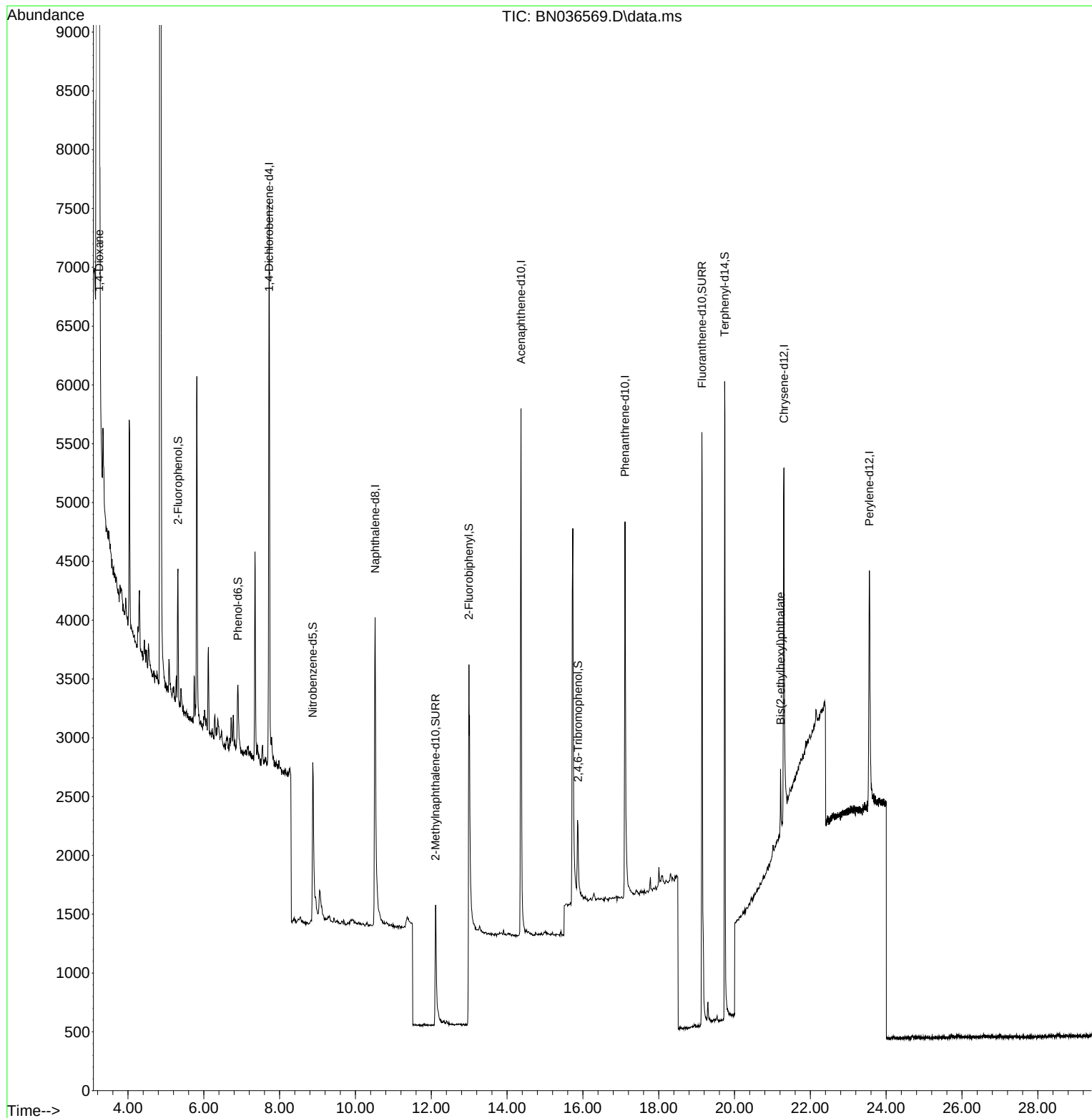
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Data File : BN036569.D
Acq On : 10 Mar 2025 19:38
Operator : RC/JU
Sample : Q1531-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

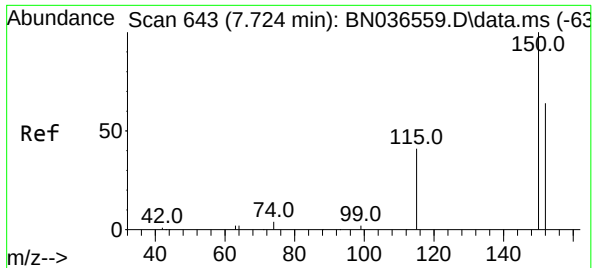
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

Quant Time: Mar 11 00:52:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

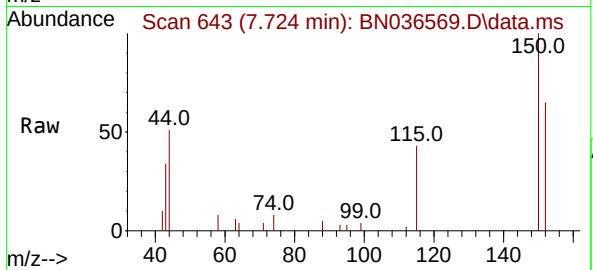
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

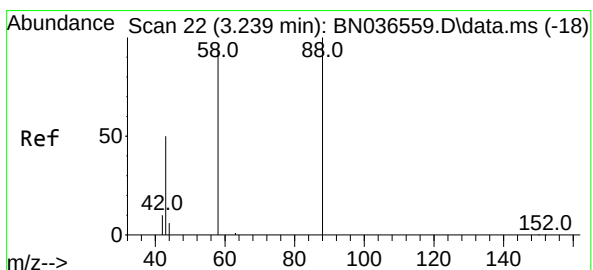
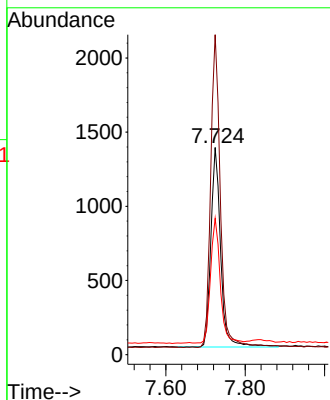
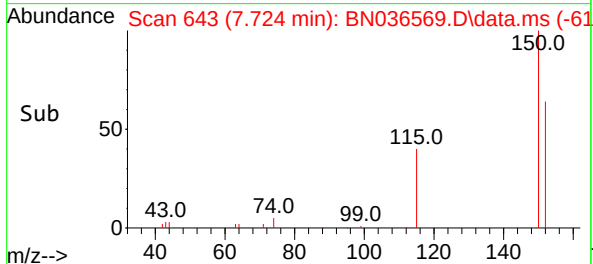
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



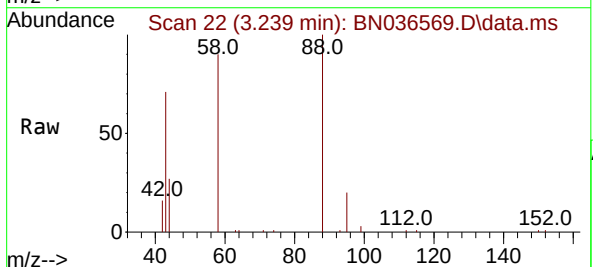
Tgt Ion: 152 Resp: 229
Ion Ratio Lower Upper
152 100
150 154.4 123.7 185.5
115 65.8 54.3 81.5

Manual Integrations
APPROVED

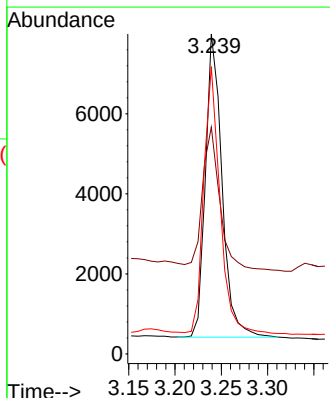
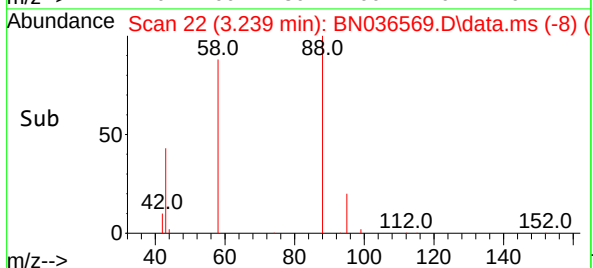
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

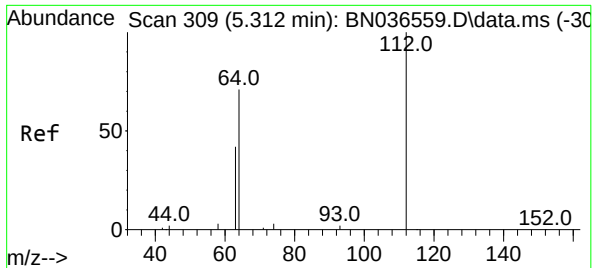


#2
1,4-Dioxane
Concen: 3.718 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38



Tgt Ion: 88 Resp: 9449
Ion Ratio Lower Upper
88 100
43 49.4 37.8 56.8
58 85.7 67.4 101.2





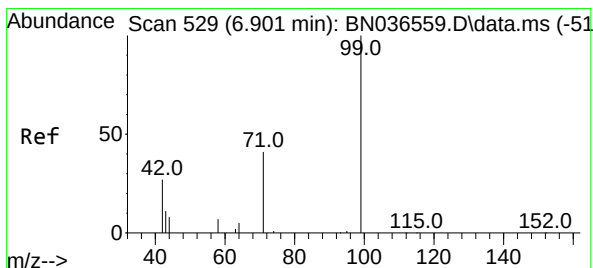
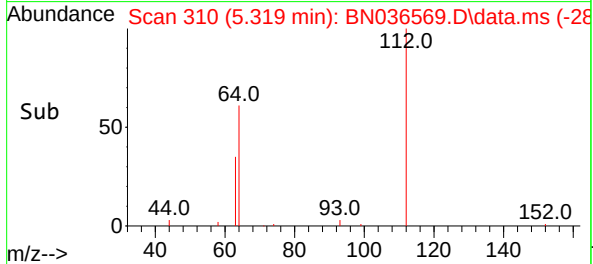
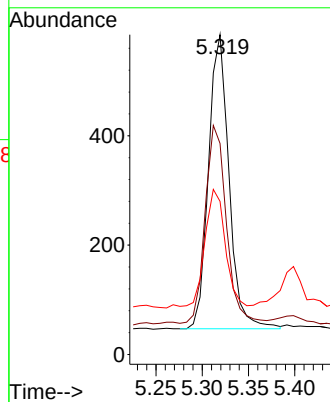
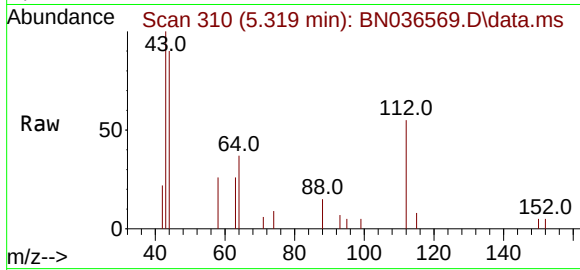
#4
2-Fluorophenol
Concen: 0.155 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

Tgt Ion: 112 Resp: 829
Ion Ratio Lower Upper
112 100
64 70.3 53.1 79.7
63 41.5 31.8 47.8

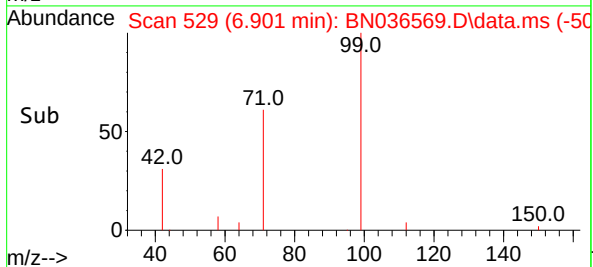
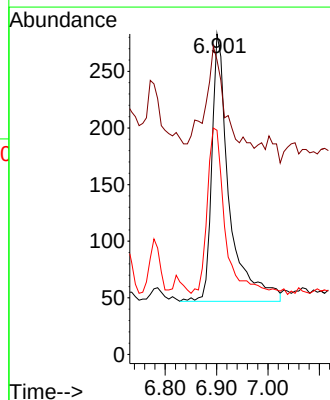
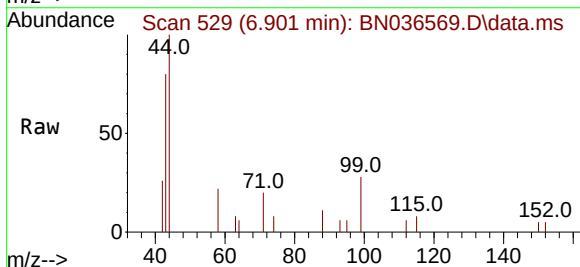
Manual Integrations
APPROVED

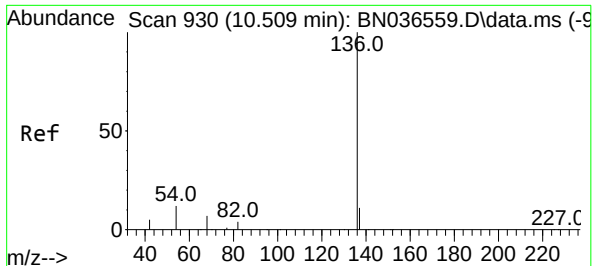
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.901 min Scan# 529
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

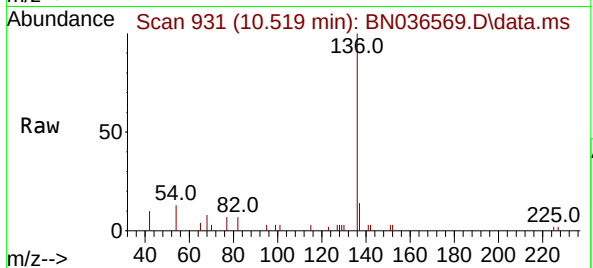
Tgt Ion: 99 Resp: 554
Ion Ratio Lower Upper
99 100
42 34.3 26.5 39.7
71 65.5 34.1 51.1#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

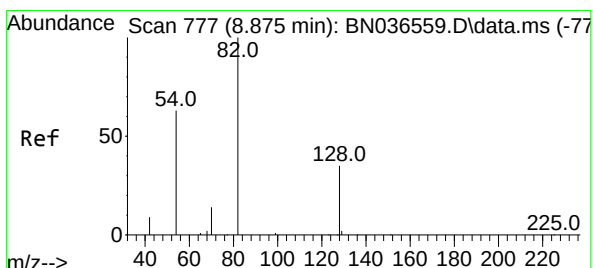
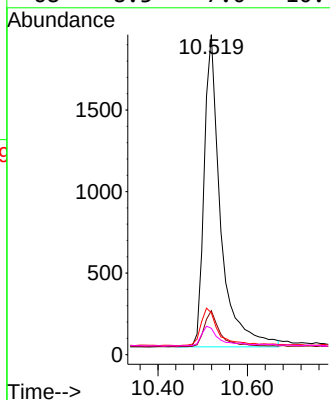
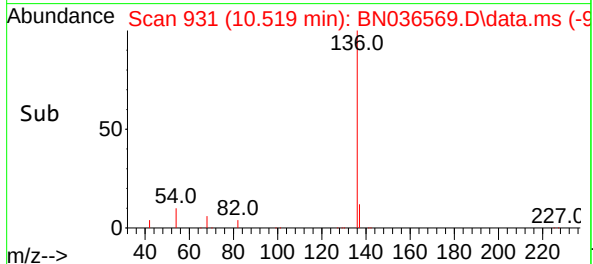
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



Tgt Ion: 136 Resp: 4880
Ion Ratio Lower Upper
136 100
137 13.8 10.3 15.5
54 13.1 11.5 17.3
68 8.3 7.0 10.4

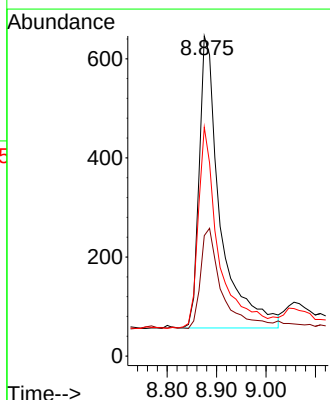
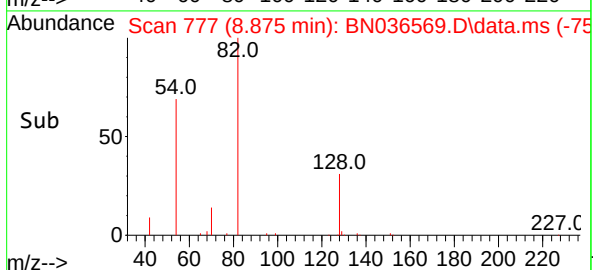
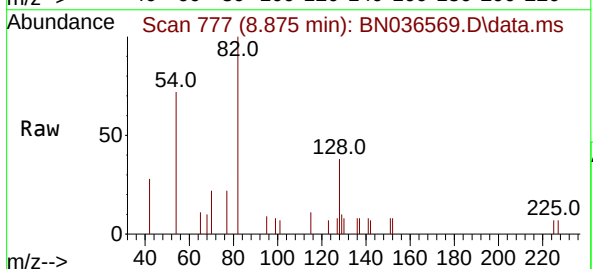
Manual Integrations
APPROVED

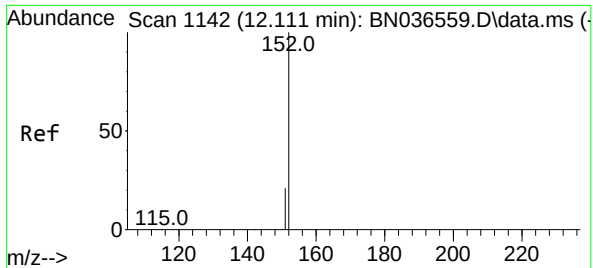
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

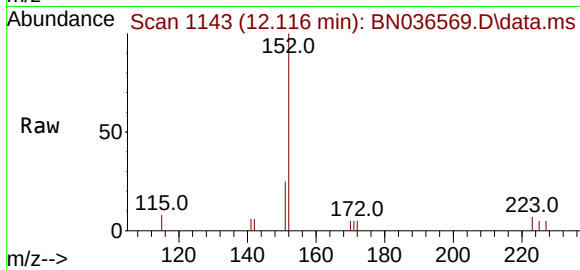
Tgt Ion: 82 Resp: 1737
Ion Ratio Lower Upper
82 100
128 37.6 30.6 45.8
54 71.5 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.005 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

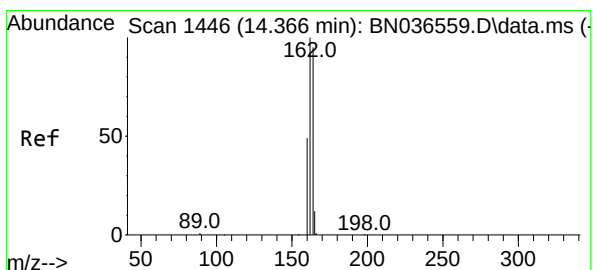
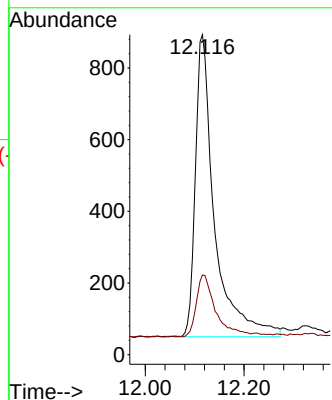
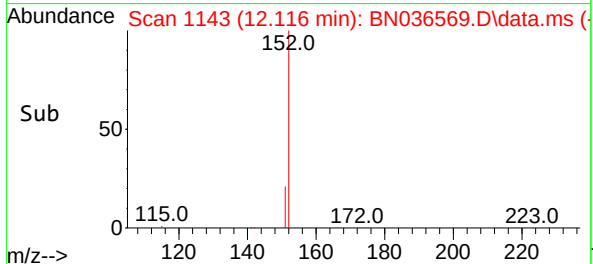
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



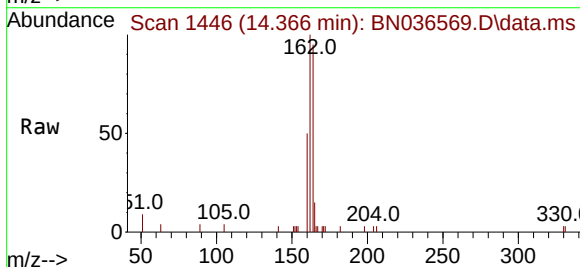
Tgt Ion:152 Resp: 226
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6

Manual Integrations
APPROVED

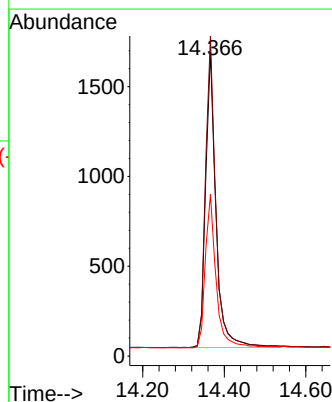
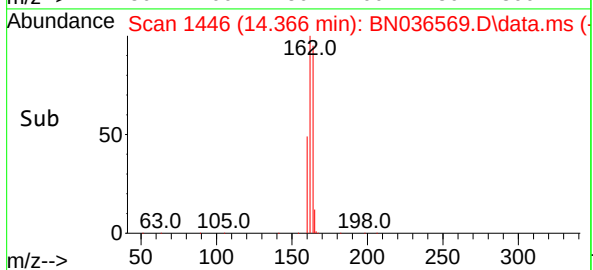
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

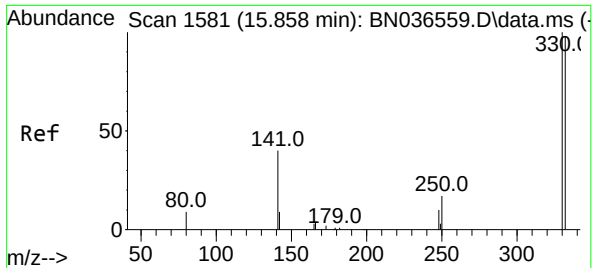


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38



Tgt Ion:164 Resp: 2910
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 53.0 42.2 63.2





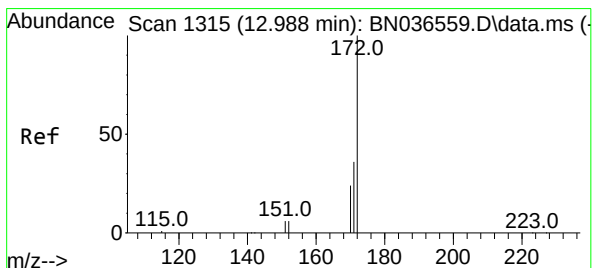
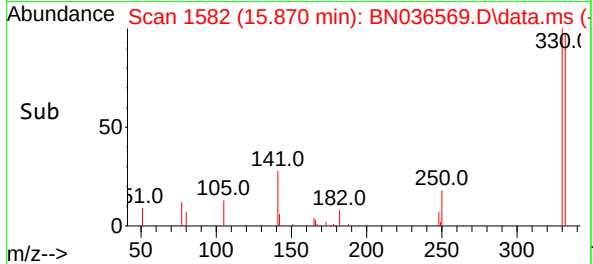
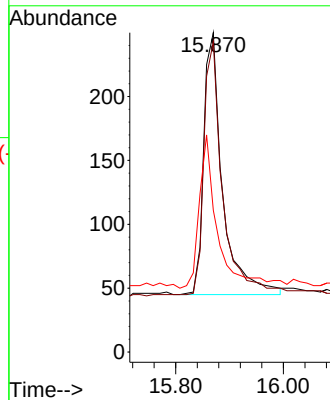
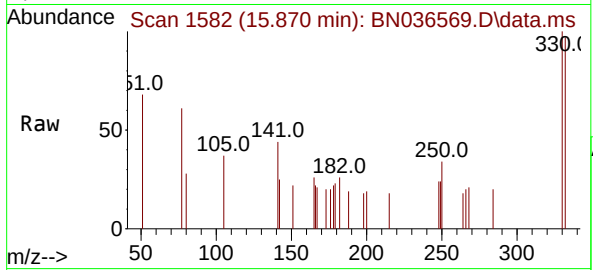
#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.870 min Scan# 11
Delta R.T. 0.012 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

Tgt Ion:330 Resp: 500
Ion Ratio Lower Upper
330 100
332 95.8 75.2 112.8
141 57.4 43.4 65.2

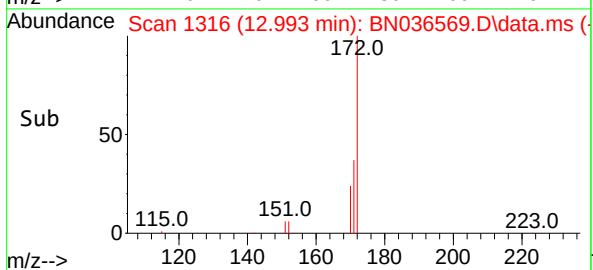
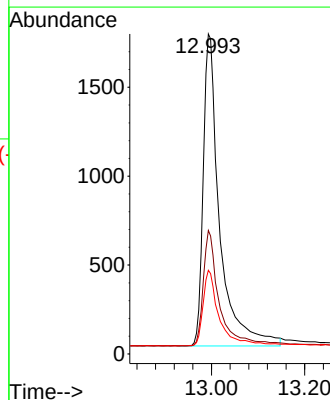
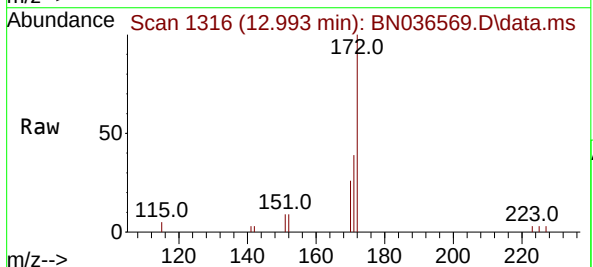
Manual Integrations
APPROVED

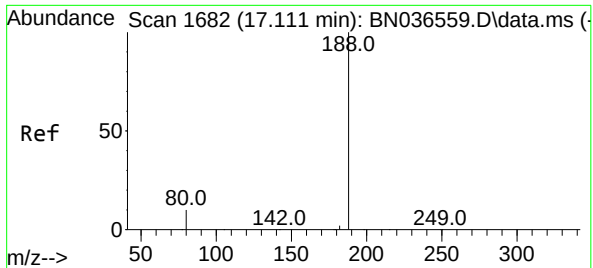
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

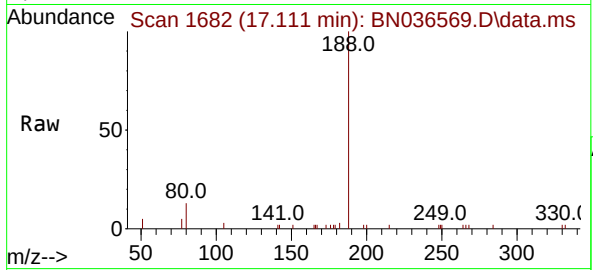
Tgt Ion:172 Resp: 5235
Ion Ratio Lower Upper
172 100
171 38.6 29.5 44.3
170 26.2 20.2 30.4





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

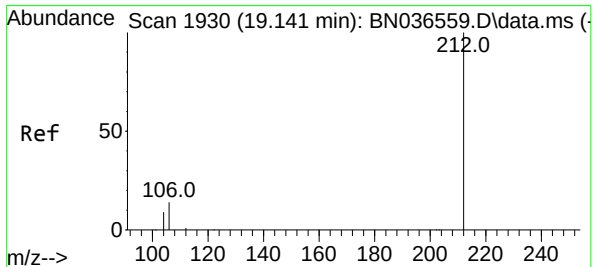
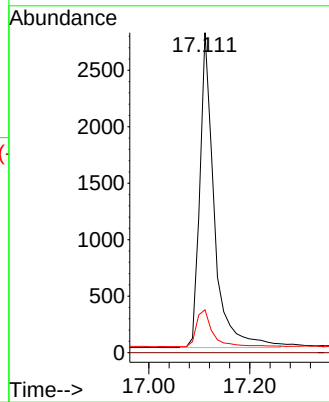
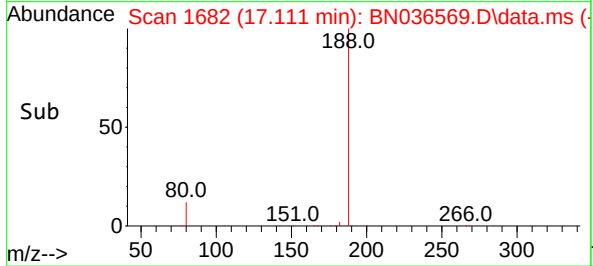
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



Tgt Ion:188 Resp: 5560
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 8.8 13.2

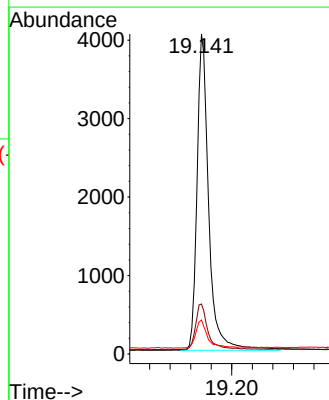
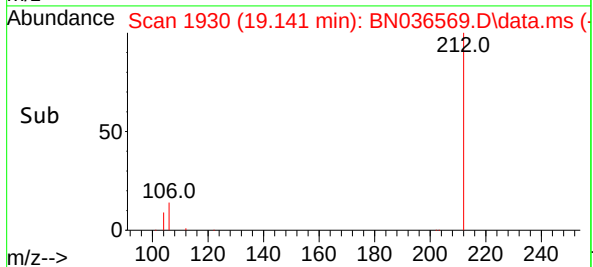
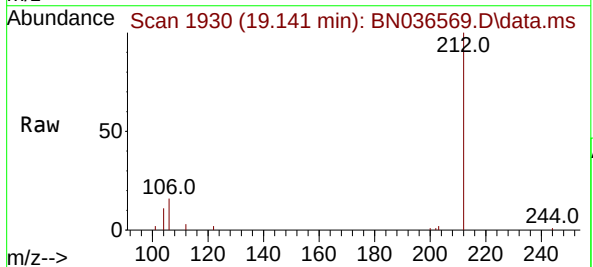
Manual Integrations
APPROVED

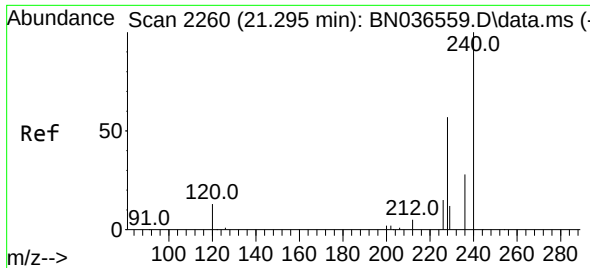
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

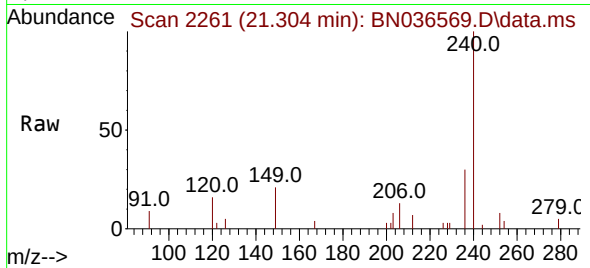
Tgt Ion:212 Resp: 6371
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 9.0 7.3 10.9





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

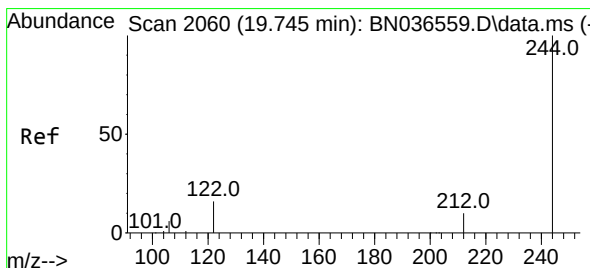
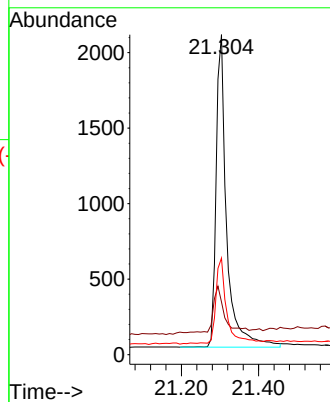
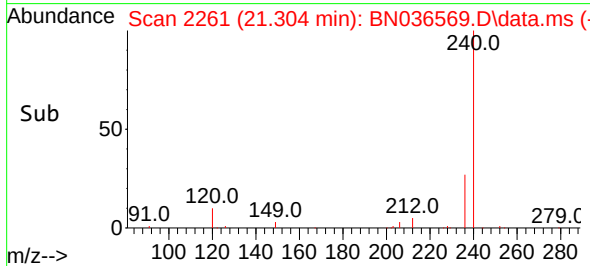
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



Tgt Ion:240 Resp: 3909
Ion Ratio Lower Upper
240 100
120 16.5 14.6 22.0
236 30.2 24.1 36.1

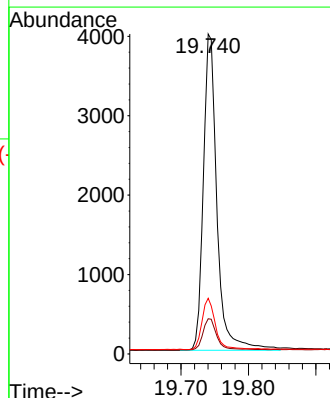
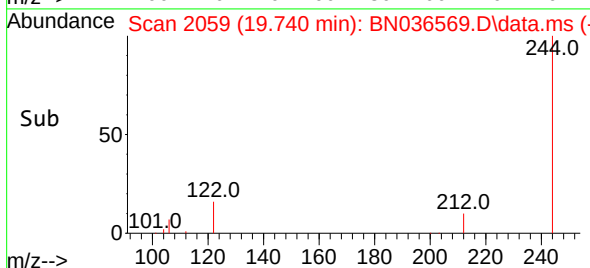
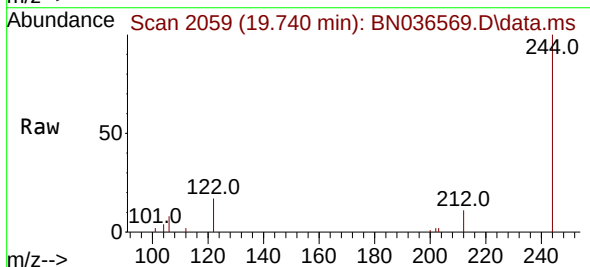
Manual Integrations
APPROVED

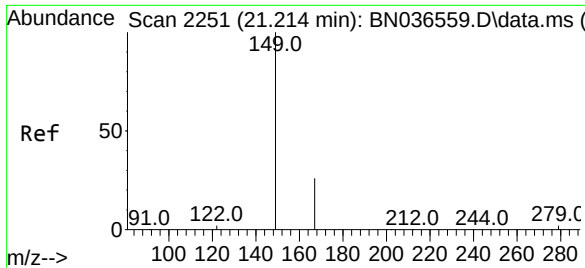
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#31
Terphenyl-d14
Concen: 0.597 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

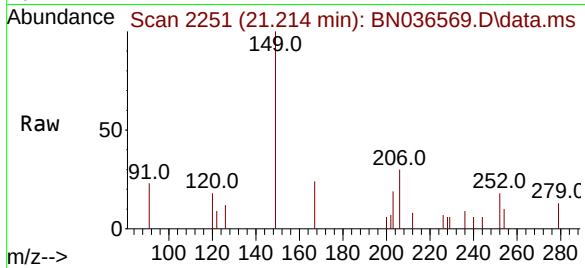
Tgt Ion:244 Resp: 5588
Ion Ratio Lower Upper
244 100
212 11.0 9.6 14.4
122 17.4 13.9 20.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng m
RT: 21.214 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

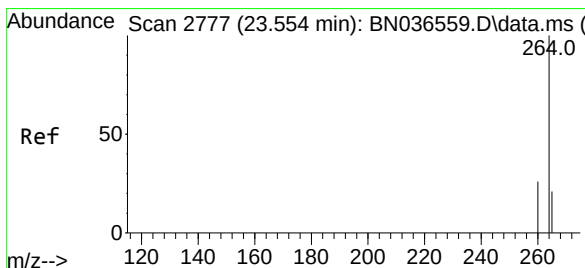
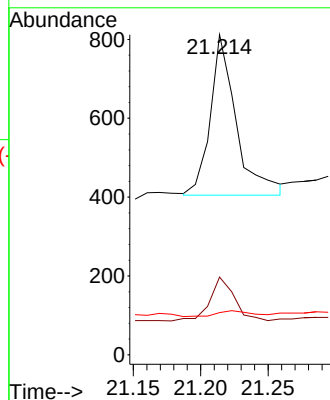
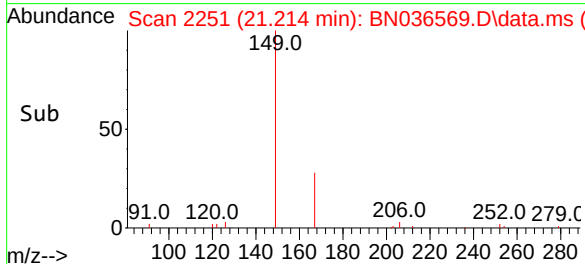
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



Tgt Ion:149 Resp: 544
Ion Ratio Lower Upper
149 100
167 25.6 20.7 31.1
279 4.8 3.6 5.4

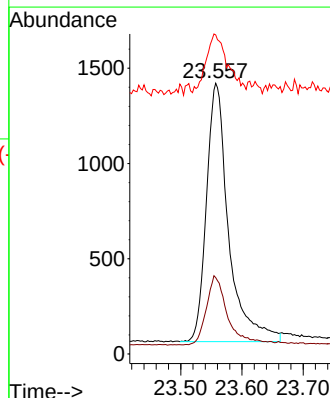
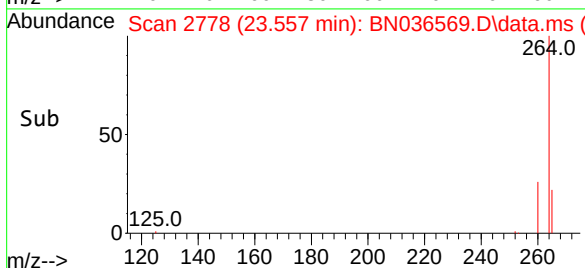
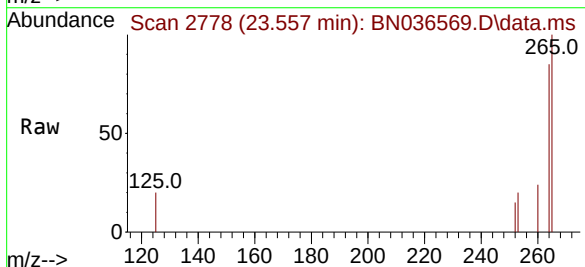
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion:264 Resp: 3415
Ion Ratio Lower Upper
264 100
260 28.2 22.6 33.8
265 117.9 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-07	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
BN036578.D	1	03/10/25 11:35	03/11/25 12:33	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	EM	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.03	*	58 - 132		257%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060		7.724			
1146-65-2	Naphthalene-d8	4840		10.509			
15067-26-2	Acenaphthene-d10	2890		14.366			
1517-22-2	Phenanthrene-d10	5690		17.111			
1719-03-5	Chrysene-d12	3810		21.295			
1520-96-3	Perylene-d12	2890		23.554			

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\BN031125\
Data File : BN036578.D
Acq On : 11 Mar 2025 12:33
Operator : RC/JU
Sample : Q1531-07
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

Quant Time: Mar 11 12:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

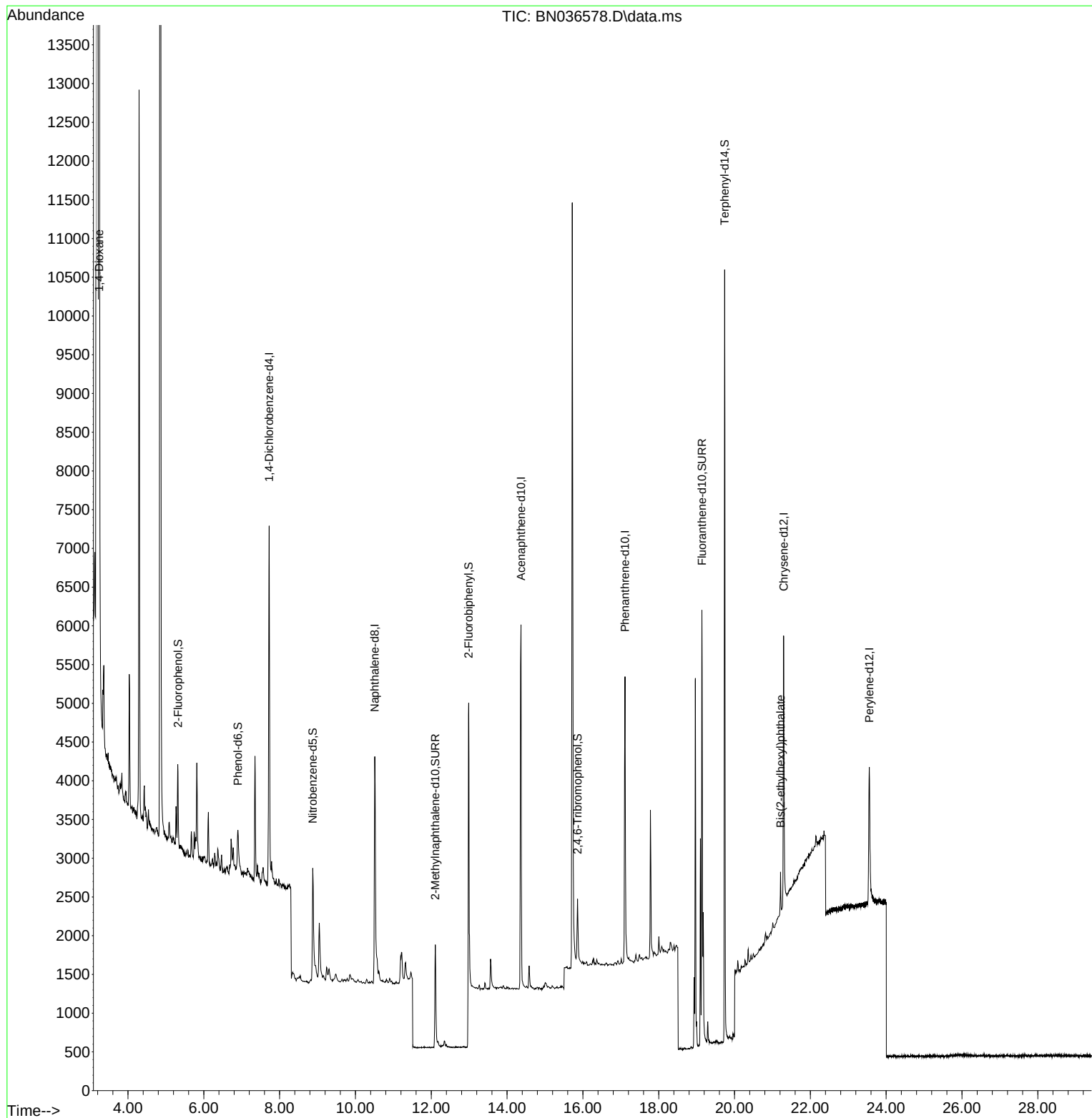
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2056	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4839	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2887	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5689	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3805	0.400	ng	0.00
35) Perylene-d12	23.554	264	2891	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	791	0.165	ng	0.00
5) Phenol-d6	6.901	99	552	0.093	ng	0.00
8) Nitrobenzene-d5	8.875	82	1568	0.298	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2236	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	514	0.392	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6510	0.388	ng	0.00
27) Fluoranthene-d10	19.141	212	6442	0.442	ng	0.00
31) Terphenyl-d14	19.740	244	9369	1.028	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	14330	6.283	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	574	0.061	ng	# 93

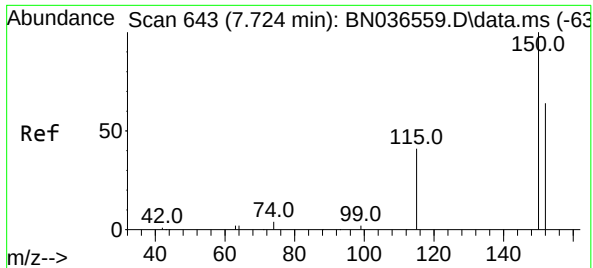
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036578.D
Acq On : 11 Mar 2025 12:33
Operator : RC/JU
Sample : Q1531-07
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

Quant Time: Mar 11 12:56:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

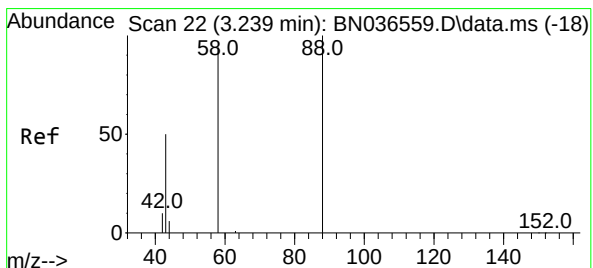
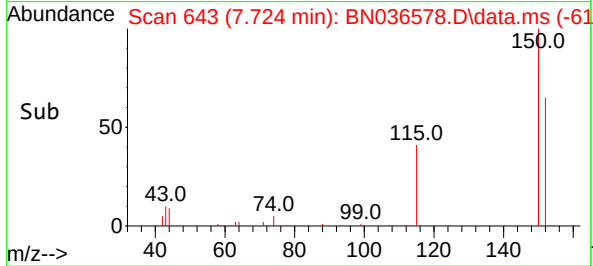
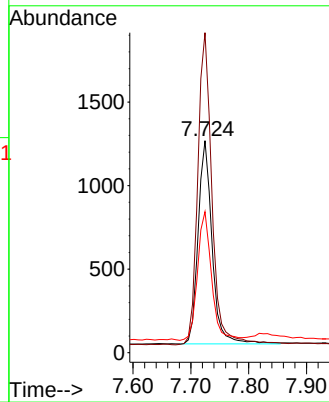
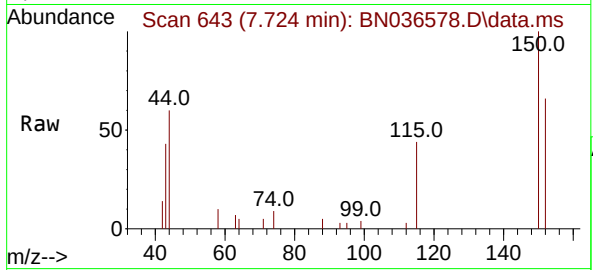




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

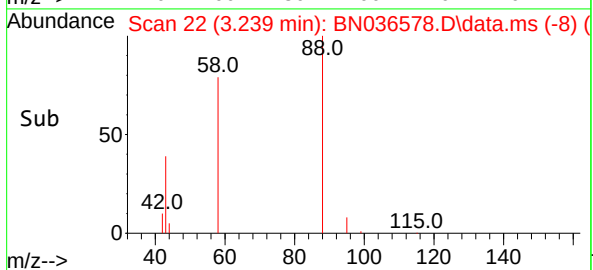
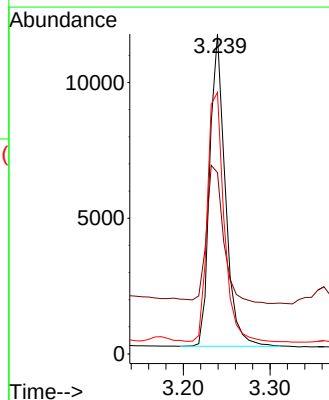
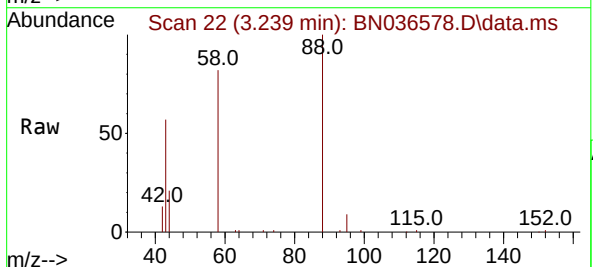
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

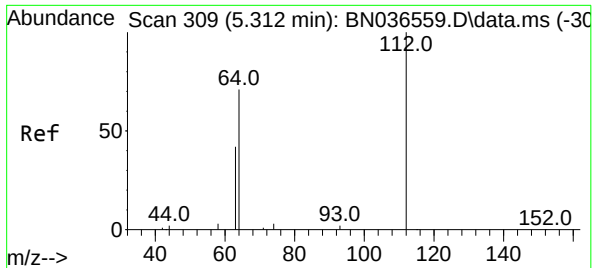
Tgt Ion:152 Resp: 2056
Ion Ratio Lower Upper
152 100
150 150.9 123.7 185.5
115 66.5 54.3 81.5



#2
1,4-Dioxane
Concen: 6.283 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion: 88 Resp: 14330
Ion Ratio Lower Upper
88 100
43 48.3 37.8 56.8
58 86.0 67.4 101.2

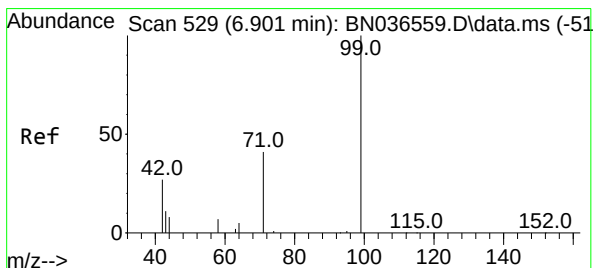
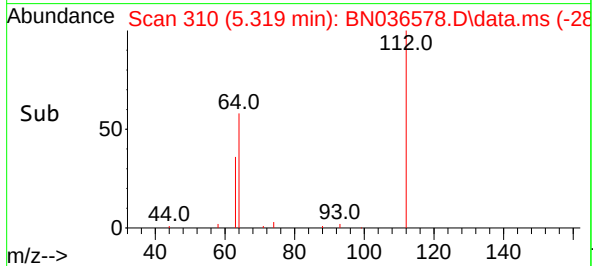
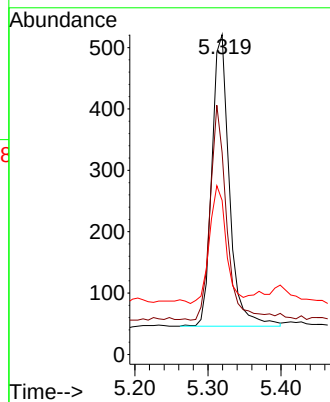
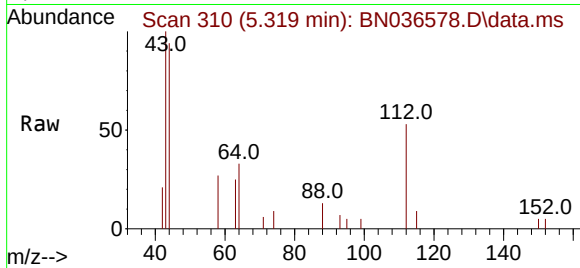




#4
2-Fluorophenol
Concen: 0.165 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

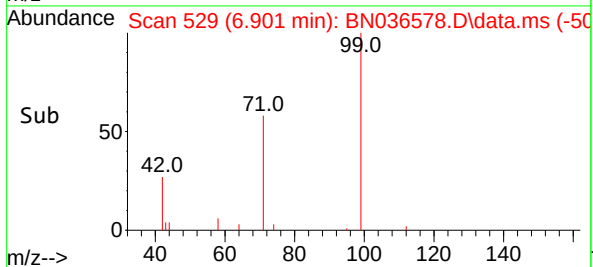
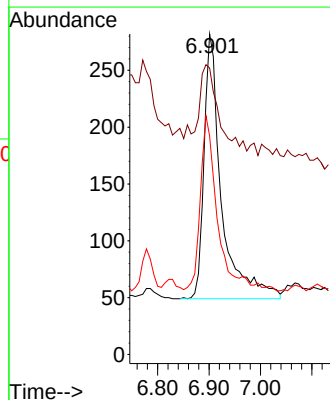
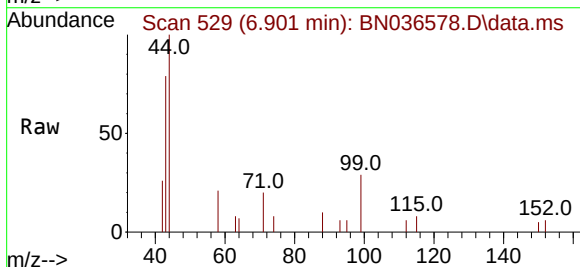
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

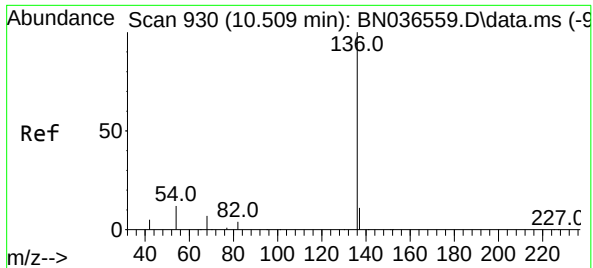
Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.3	53.1	79.7
63	38.4	31.8	47.8



#5
Phenol-d6
Concen: 0.093 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion	Ratio	Lower	Upper
99	100		
42	40.6	26.5	39.7#
71	64.7	34.1	51.1#

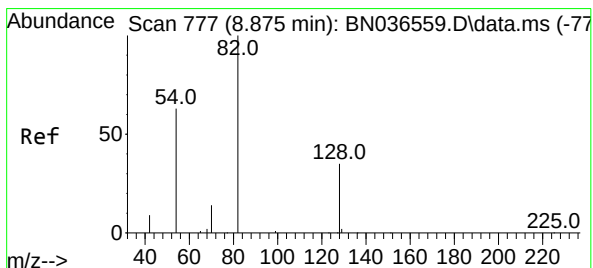
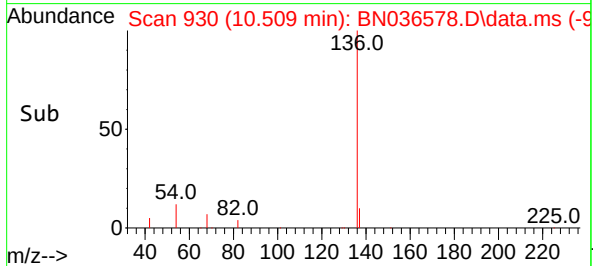
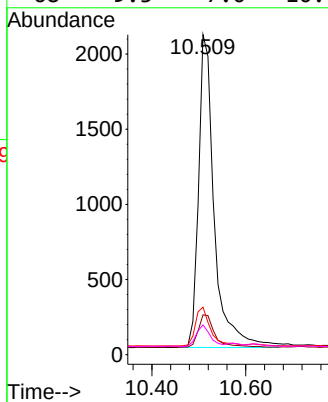
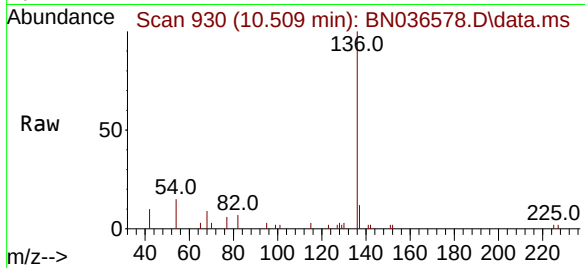




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

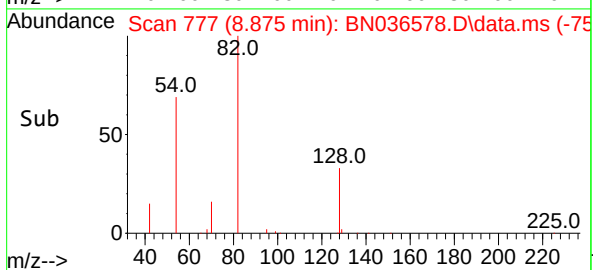
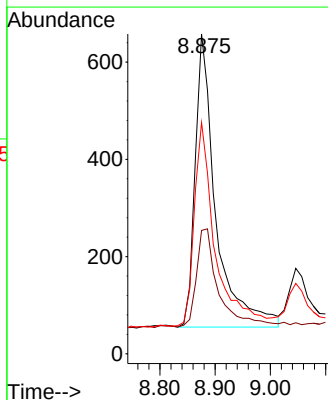
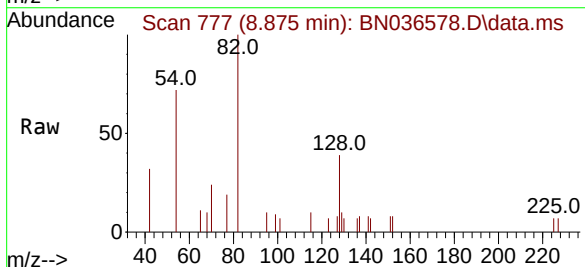
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

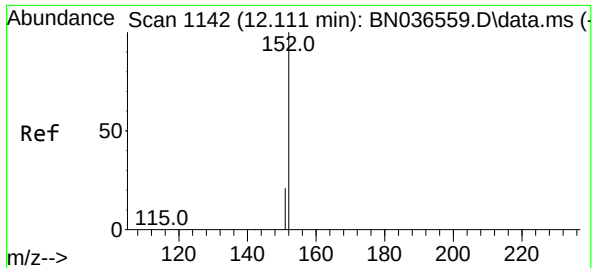
Tgt Ion:	136	Resp:	4839
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	14.8	11.5	17.3
68	9.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.298 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion:	82	Resp:	1568
Ion	Ratio	Lower	Upper
82	100		
128	38.6	30.6	45.8
54	72.3	52.2	78.4

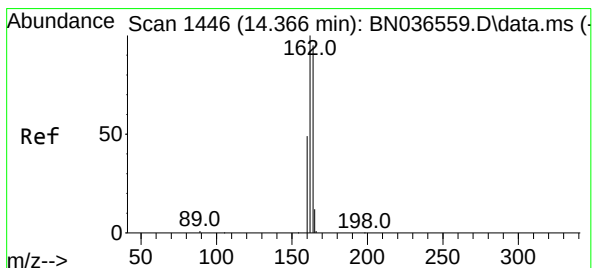
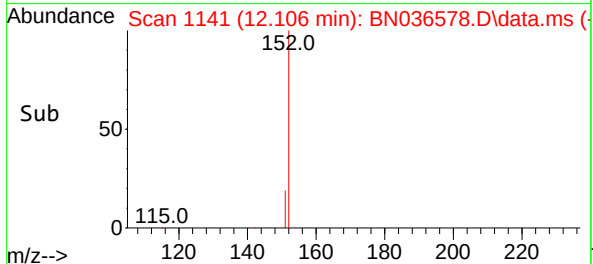
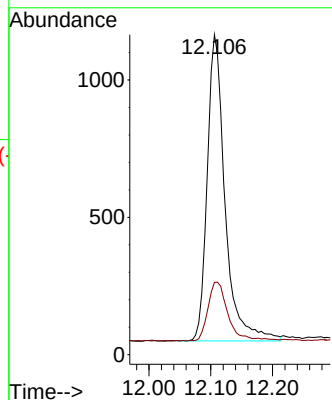
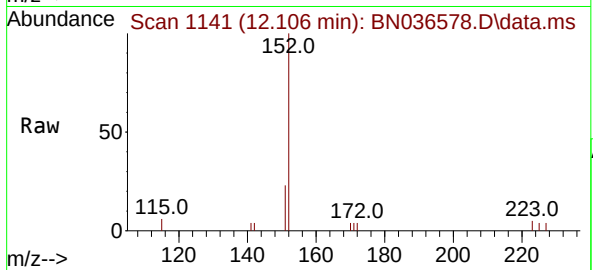




#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

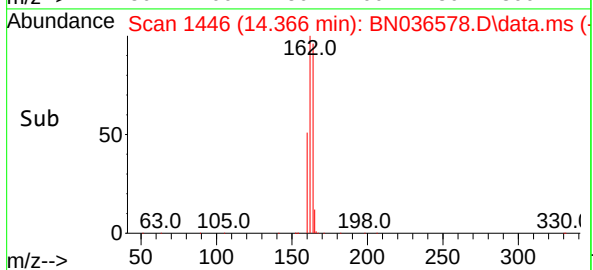
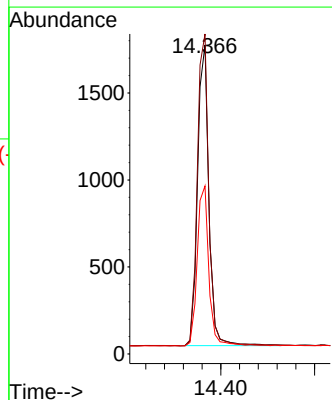
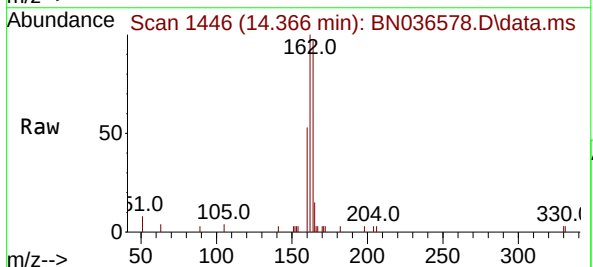
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

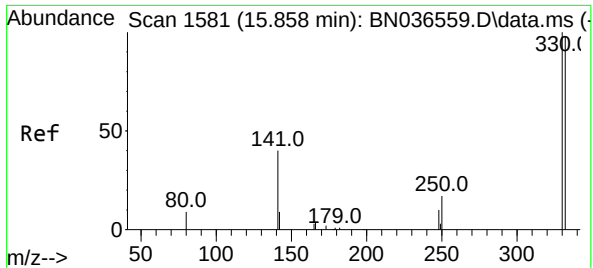
Tgt Ion:152 Resp: 2236
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion:164 Resp: 2887
Ion Ratio Lower Upper
164 100
162 103.5 84.2 126.2
160 54.4 42.2 63.2

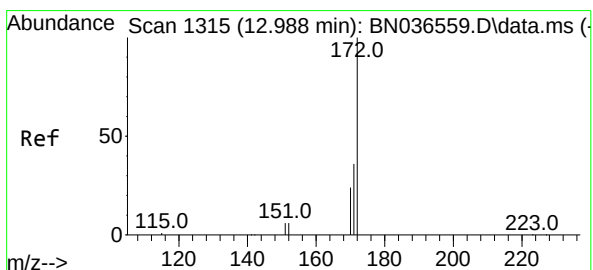
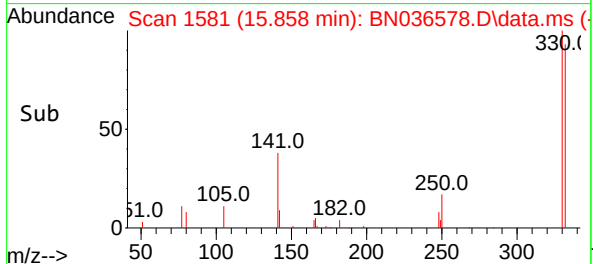
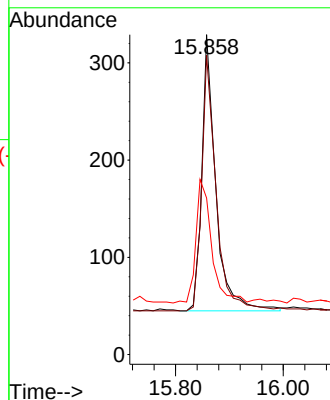
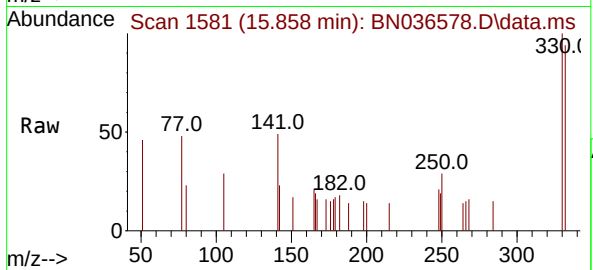




#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

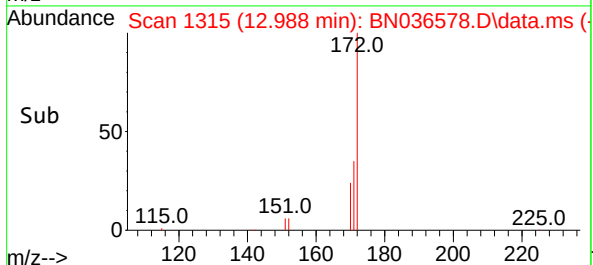
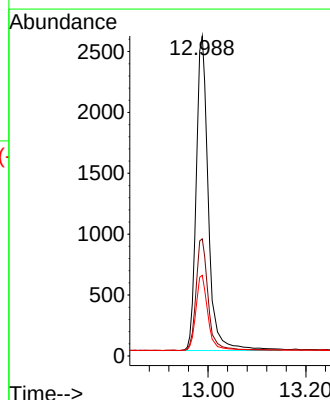
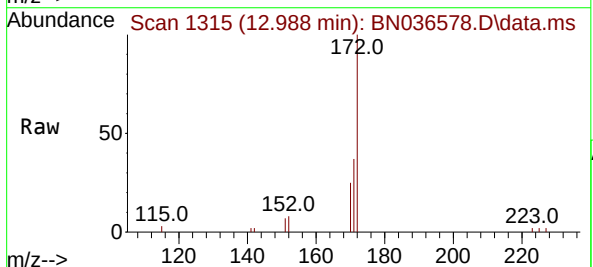
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

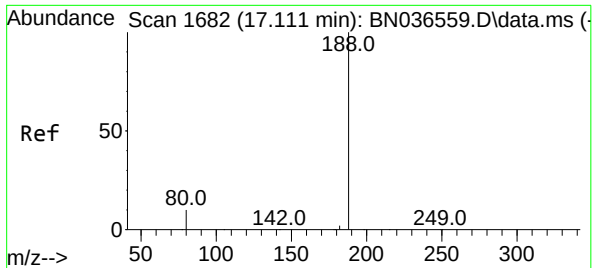
Tgt Ion:330 Resp: 514
Ion Ratio Lower Upper
330 100
332 95.5 75.2 112.8
141 50.8 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion:172 Resp: 6510
Ion Ratio Lower Upper
172 100
171 36.6 29.5 44.3
170 25.2 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036578.D

Acq: 11 Mar 2025 12:33

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306

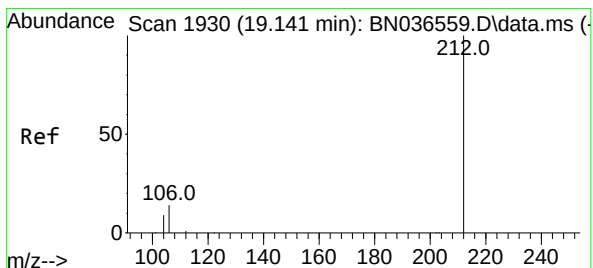
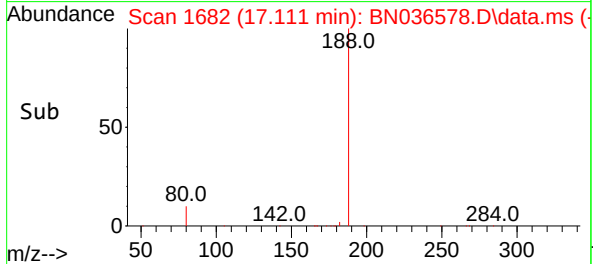
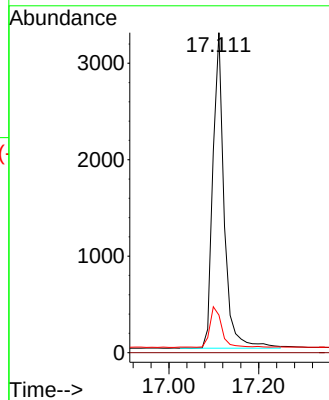
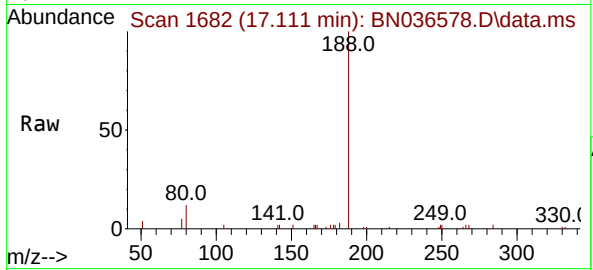
Tgt Ion:188 Resp: 5689

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 8.8 13.2



#27

Fluoranthene-d10

Concen: 0.442 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036578.D

Acq: 11 Mar 2025 12:33

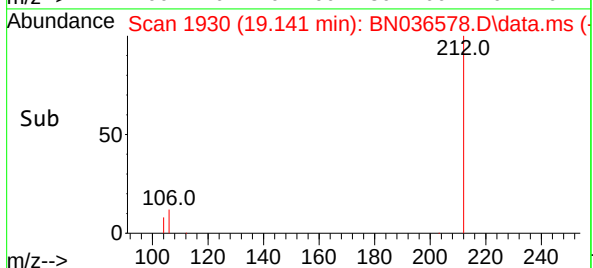
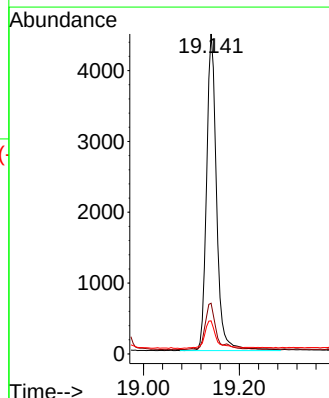
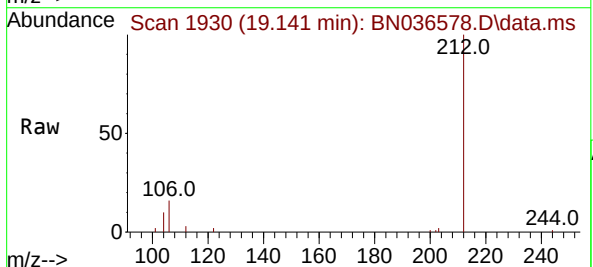
Tgt Ion:212 Resp: 6442

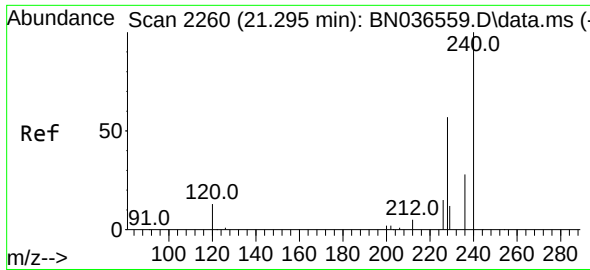
Ion Ratio Lower Upper

212 100

106 16.3 11.8 17.6

104 10.3 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036578.D

Acq: 11 Mar 2025 12:33

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306

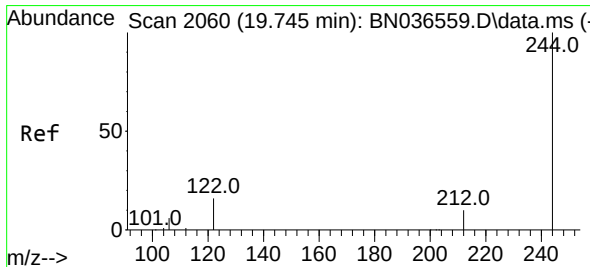
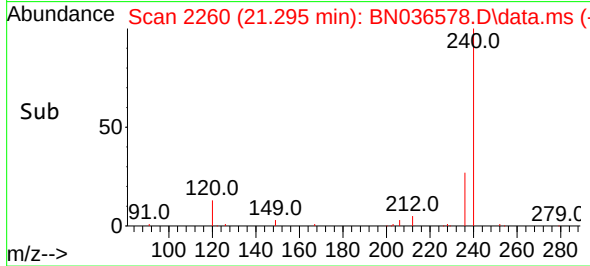
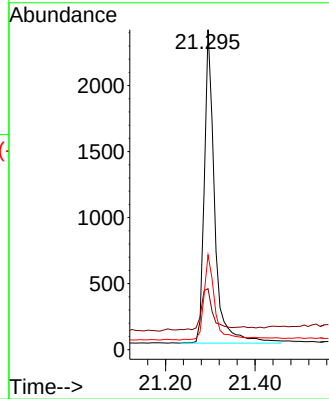
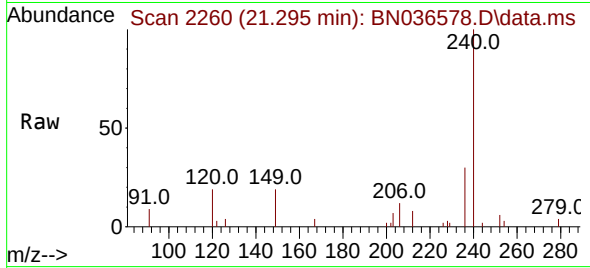
Tgt Ion:240 Resp: 3805

Ion Ratio Lower Upper

240 100

120 19.0 14.6 22.0

236 29.6 24.1 36.1



#31

Terphenyl-d14

Concen: 1.028 ng

RT: 19.740 min Scan# 2059

Delta R.T. -0.005 min

Lab File: BN036578.D

Acq: 11 Mar 2025 12:33

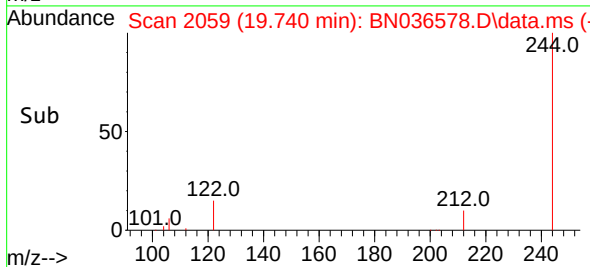
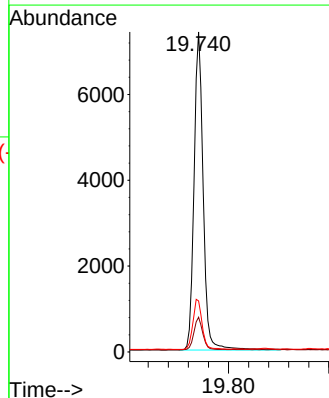
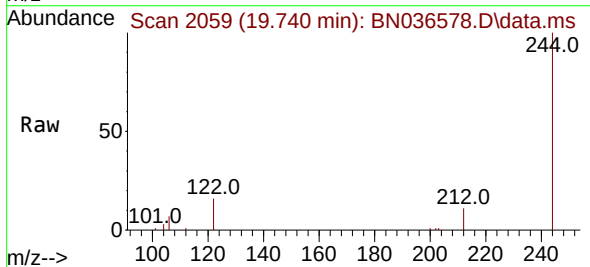
Tgt Ion:244 Resp: 9369

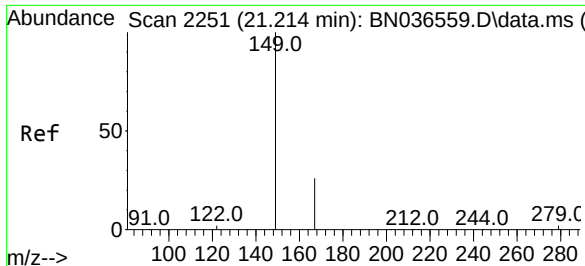
Ion Ratio Lower Upper

244 100

212 10.9 9.6 14.4

122 16.0 13.9 20.9

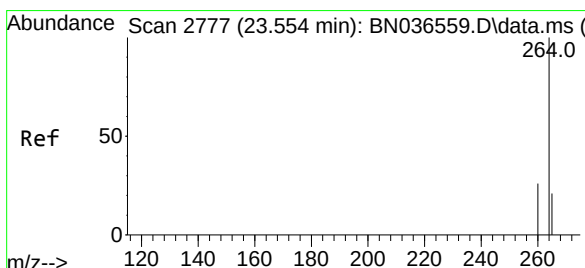
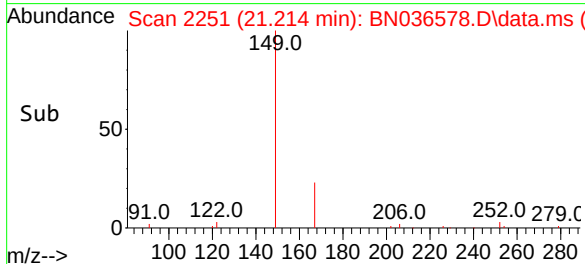
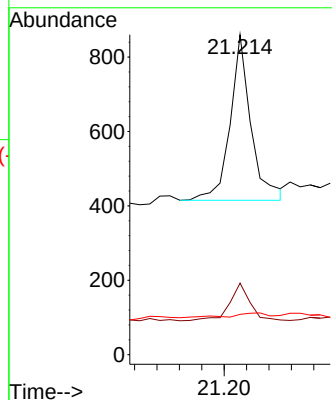
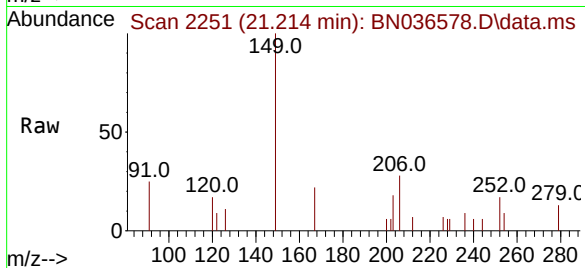




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.061 ng
RT: 21.214 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

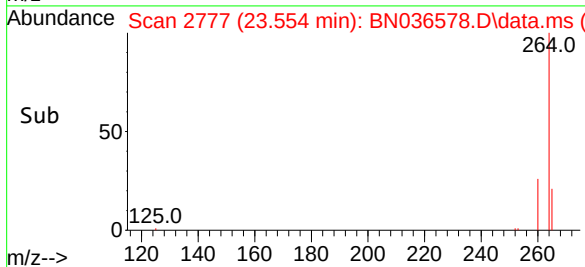
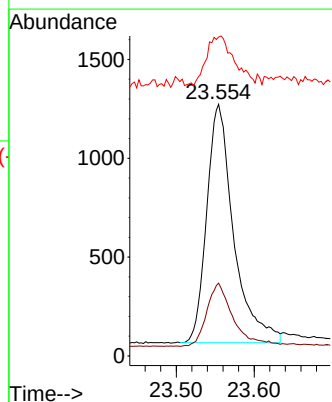
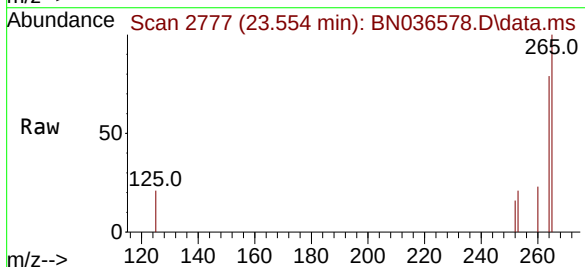
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306

Tgt Ion:149 Resp: 574
Ion Ratio Lower Upper
149 100
167 22.3 20.7 31.1
279 3.0 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036578.D
Acq: 11 Mar 2025 12:33

Tgt Ion:264 Resp: 2891
Ion Ratio Lower Upper
264 100
260 28.9 22.6 33.8
265 126.7 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-07DL	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
BN036581.D	2	03/10/25 11:35	03/11/25 14:57	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.10	D	0.14	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	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	0.91	*	58 - 132		228%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260		7.724			
1146-65-2	Naphthalene-d8	5270		10.52			
15067-26-2	Acenaphthene-d10	3220		14.366			
1517-22-2	Phenanthrene-d10	6430		17.111			
1719-03-5	Chrysene-d12	4560		21.295			
1520-96-3	Perylene-d12	3610		23.554			

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\BN031125\
Data File : BN036581.D
Acq On : 11 Mar 2025 14:57
Operator : RC/JU
Sample : Q1531-07DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

Quant Time: Mar 11 15:22:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

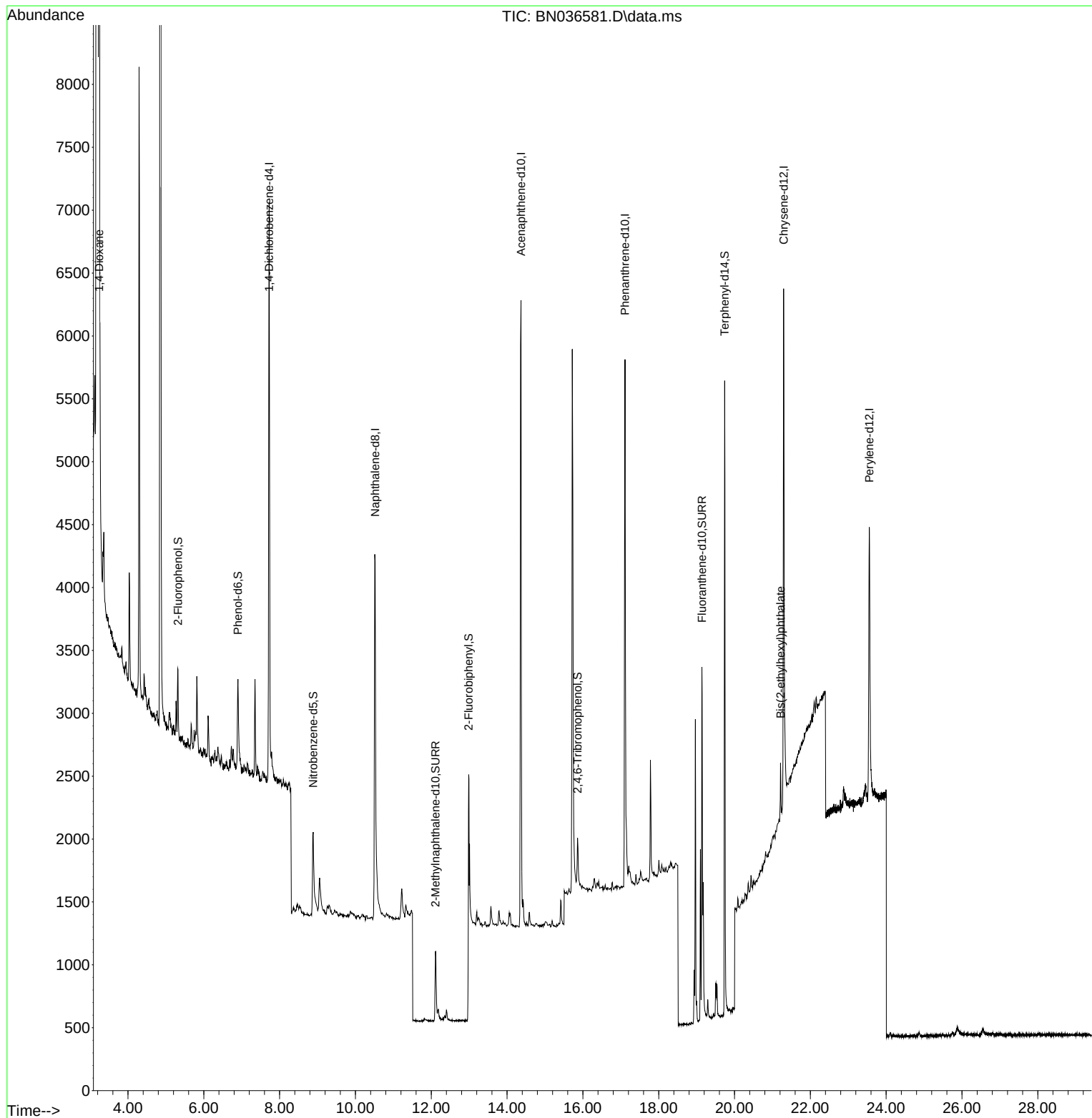
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2259	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	5271	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	3220	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6427	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4562	0.400	ng	0.00
35) Perylene-d12	23.554	264	3613	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	398	0.076	ng	0.00
5) Phenol-d6	6.901	99	764	0.117	ng	0.00
8) Nitrobenzene-d5	8.886	82	833	0.145	ng	0.01
11) 2-Methylnaphthalene-d10	12.111	152	1102	0.141	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	276	0.189	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	3032	0.162	ng	0.00
27) Fluoranthene-d10	19.141	212	3474	0.211	ng	0.00
31) Terphenyl-d14	19.740	244	4984	0.456	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	7390	2.949	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	444	0.039	ng	# 99

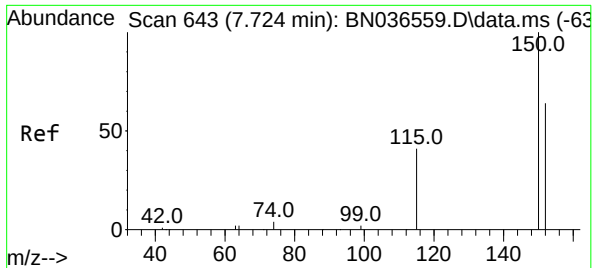
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036581.D
Acq On : 11 Mar 2025 14:57
Operator : RC/JU
Sample : Q1531-07DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

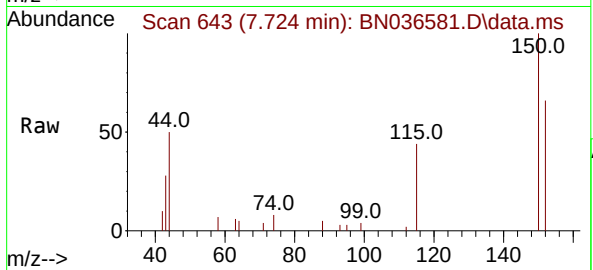
Quant Time: Mar 11 15:22:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



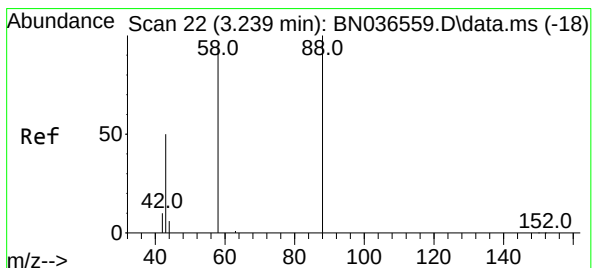
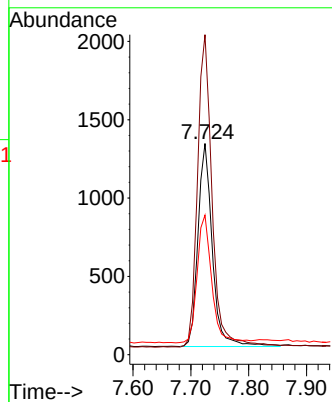
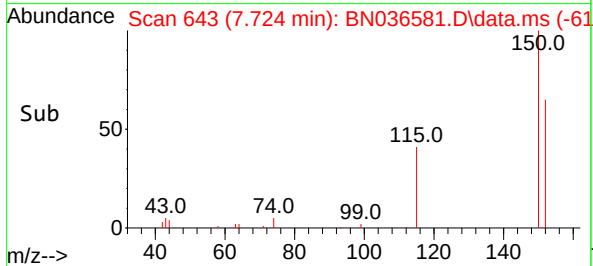


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

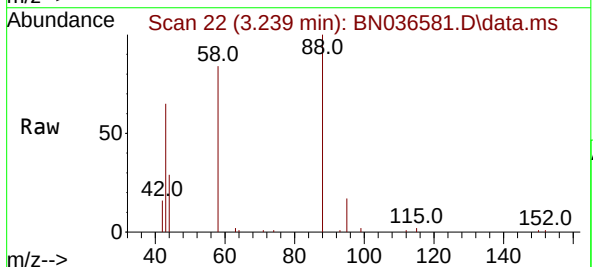
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL



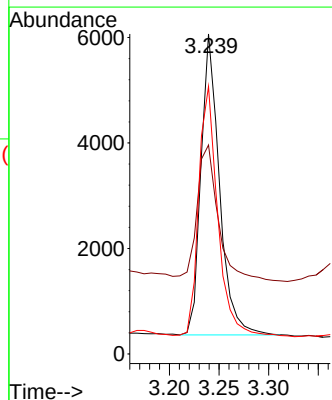
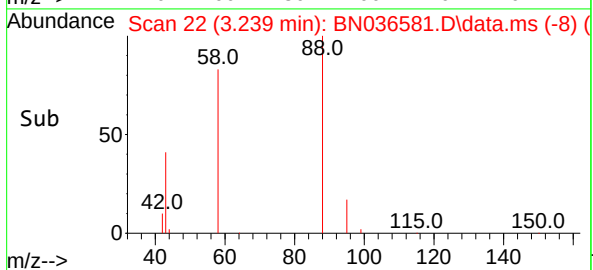
Tgt Ion:152 Resp: 2259
Ion Ratio Lower Upper
152 100
150 151.4 123.7 185.5
115 66.0 54.3 81.5

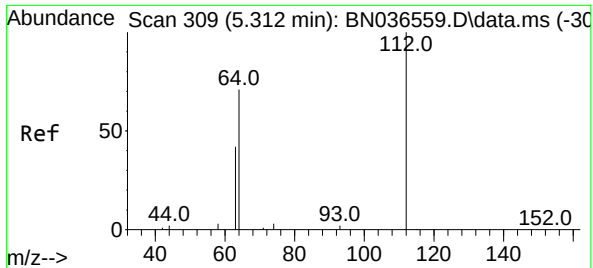


#2
1,4-Dioxane
Concen: 2.949 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57



Tgt Ion: 88 Resp: 7390
Ion Ratio Lower Upper
88 100
43 51.9 37.8 56.8
58 85.1 67.4 101.2

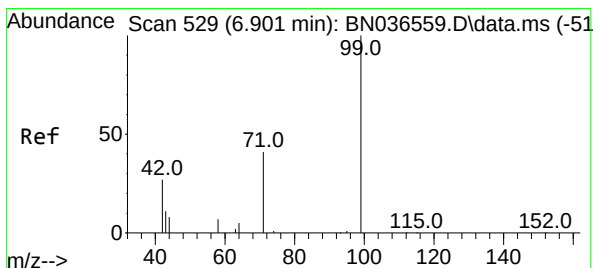
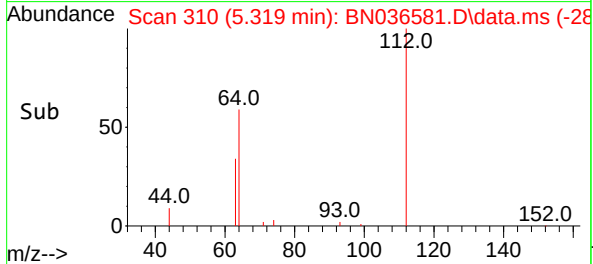
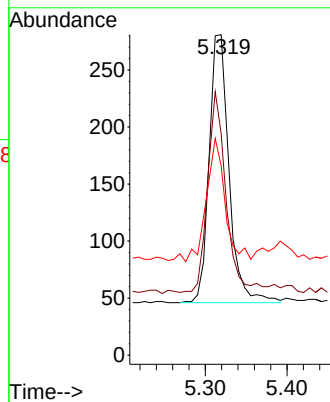
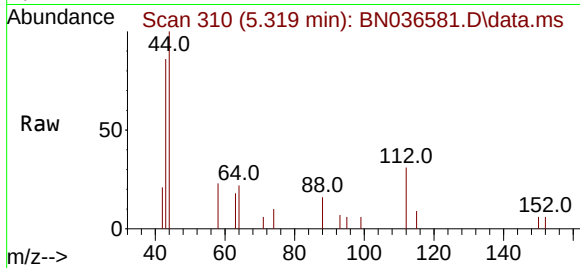




#4
2-Fluorophenol
Concen: 0.076 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

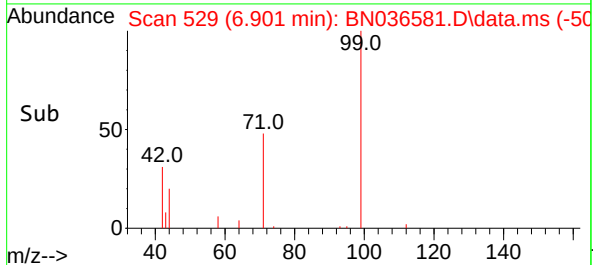
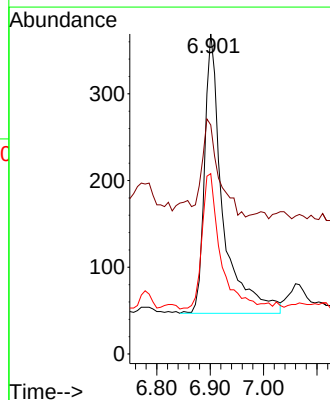
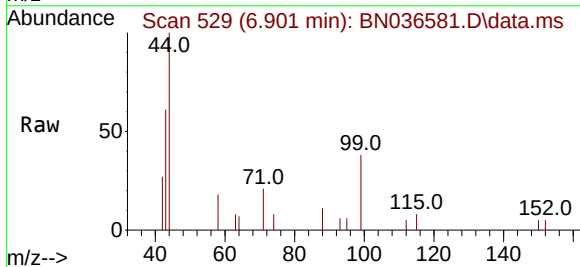
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

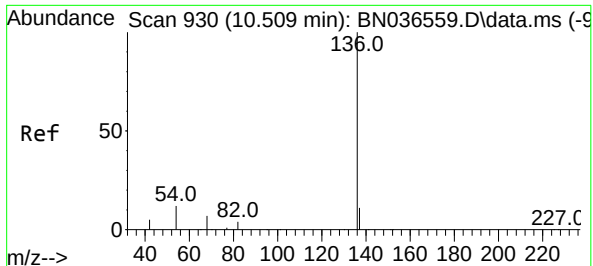
Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	45.0	31.8	47.8



#5
Phenol-d6
Concen: 0.117 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion	Ratio	Lower	Upper
99	100		
42	32.2	26.5	39.7
71	47.5	34.1	51.1

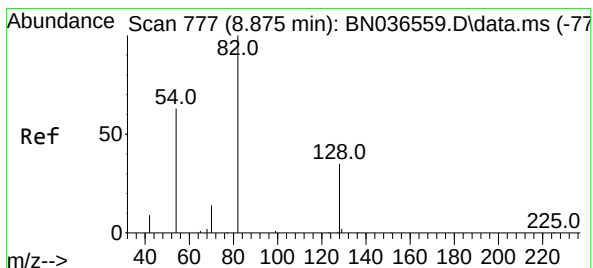
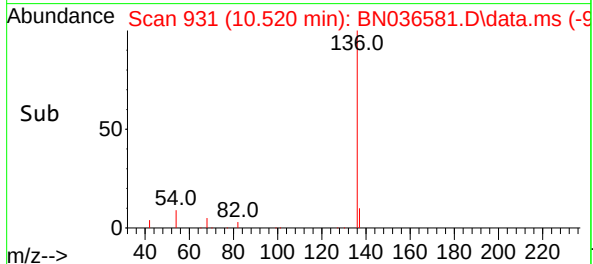
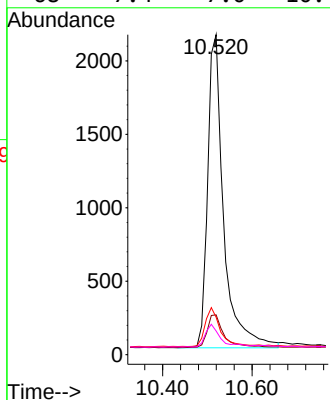
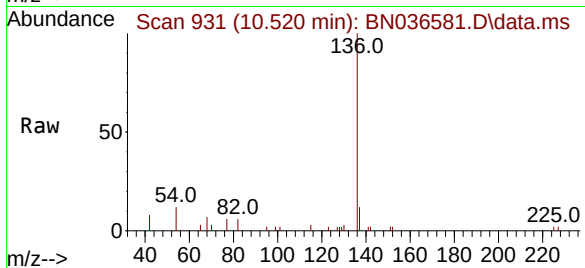




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

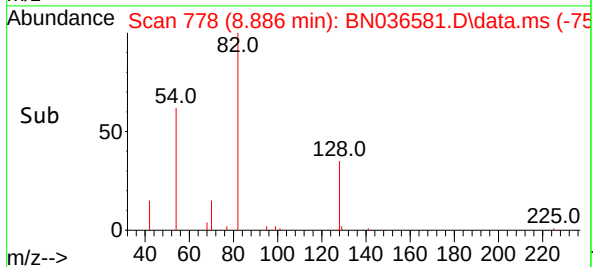
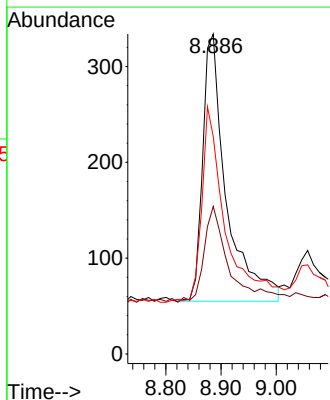
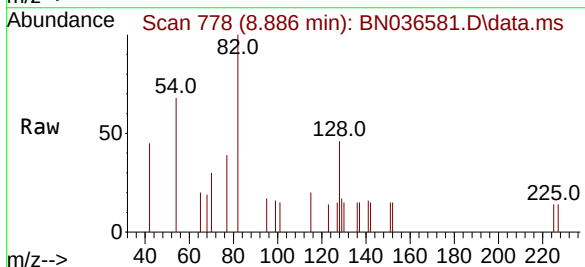
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

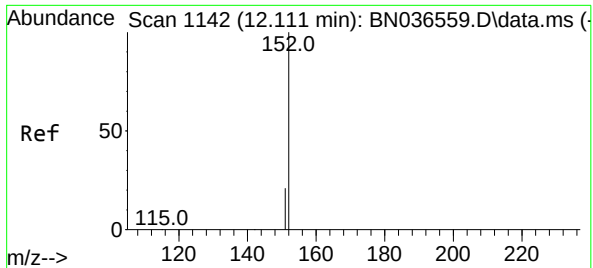
Tgt Ion:	136	Resp:	5271
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	11.7	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.145 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion:	82	Resp:	833
Ion	Ratio	Lower	Upper
82	100		
128	46.1	30.6	45.8#
54	68.0	52.2	78.4

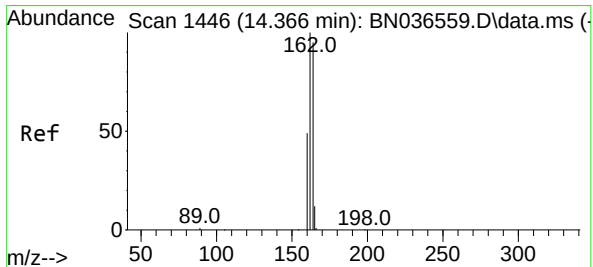
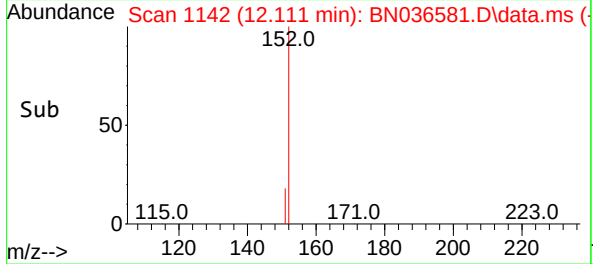
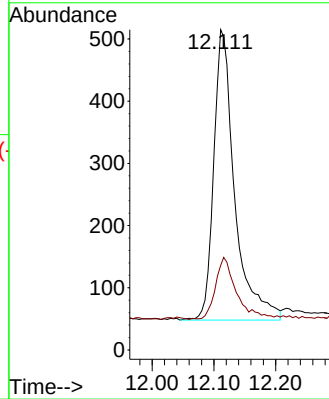
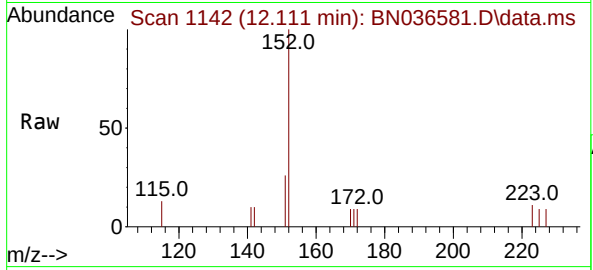




#11
2-Methylnaphthalene-d10
Concen: 0.141 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

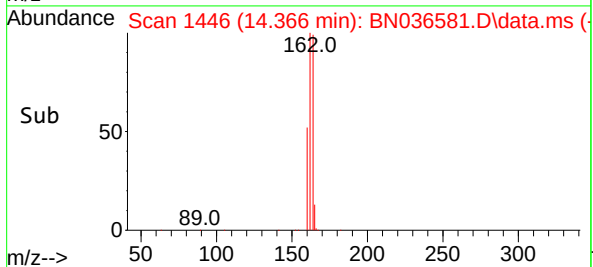
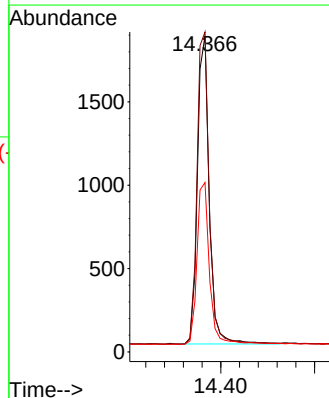
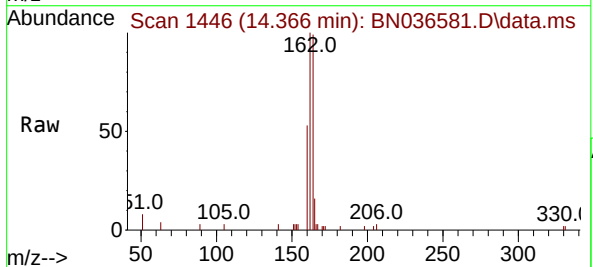
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

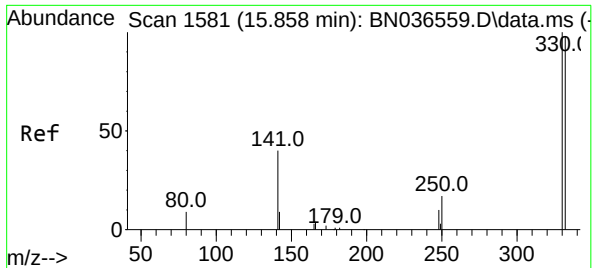
Tgt Ion:152 Resp: 1102
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion:164 Resp: 3220
Ion Ratio Lower Upper
164 100
162 101.2 84.2 126.2
160 53.6 42.2 63.2

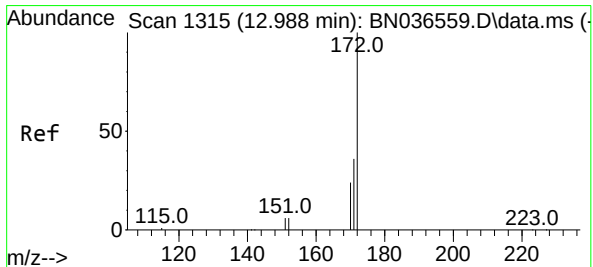
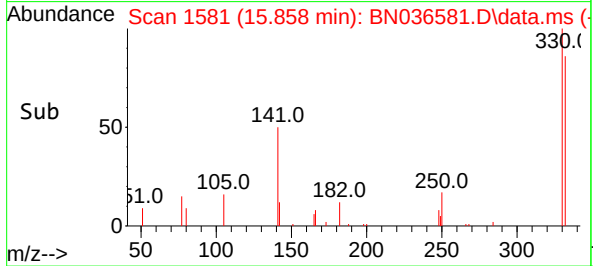
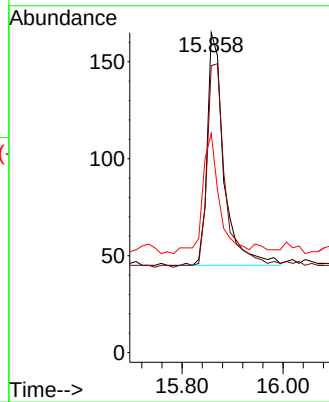
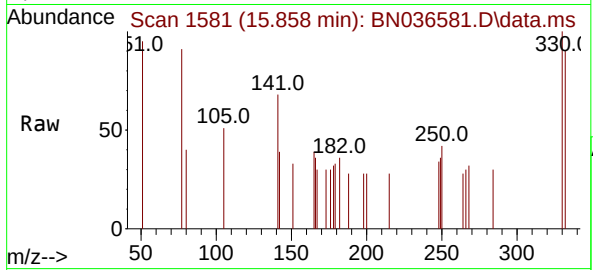




#14
2,4,6-Tribromophenol
Concen: 0.189 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

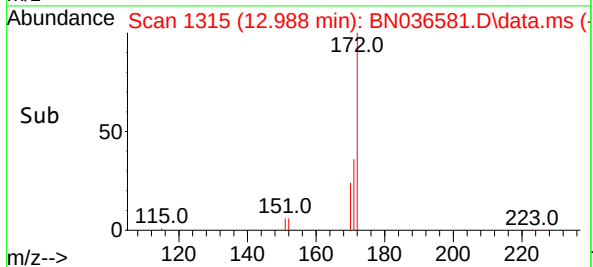
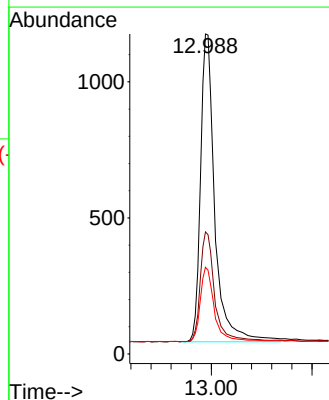
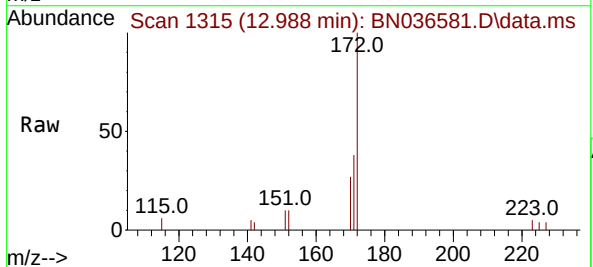
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

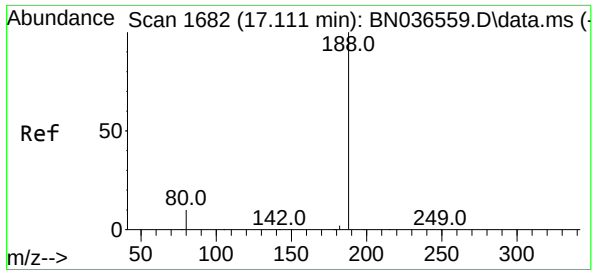
Tgt Ion:330 Resp: 276
Ion Ratio Lower Upper
330 100
332 96.7 75.2 112.8
141 52.2 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.162 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion:172 Resp: 3032
Ion Ratio Lower Upper
172 100
171 38.2 29.5 44.3
170 27.1 20.2 30.4

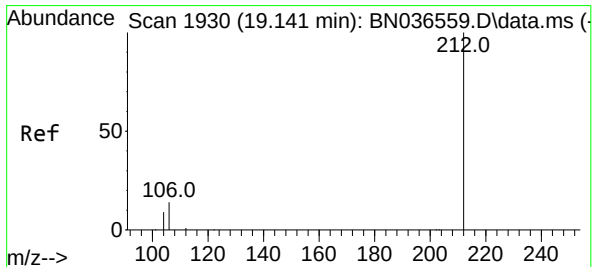
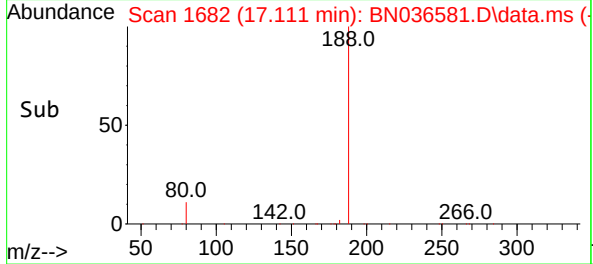
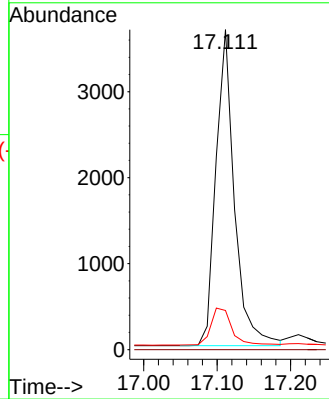
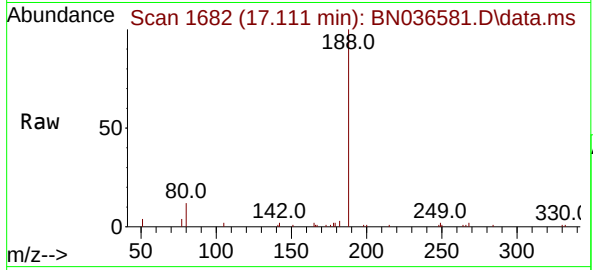




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

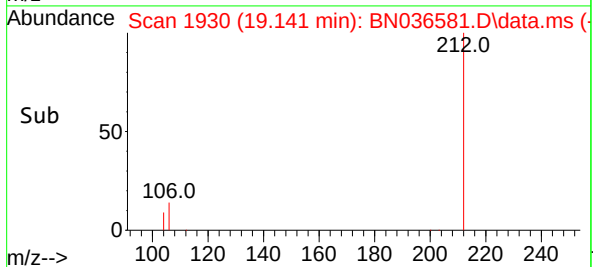
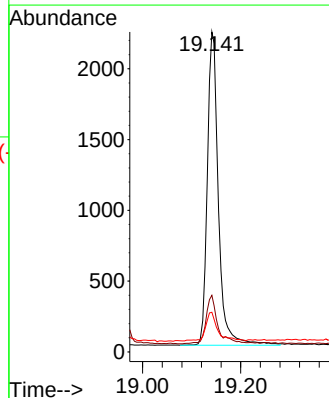
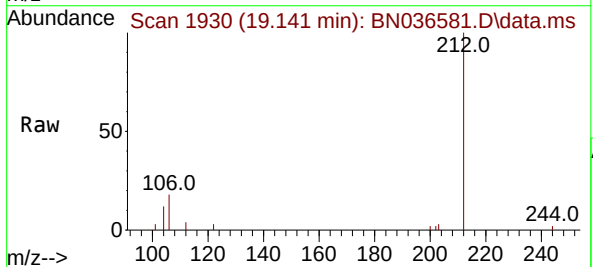
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

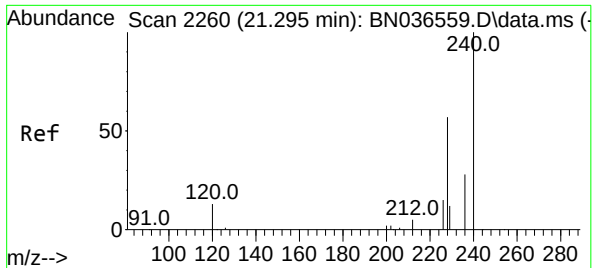
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.211 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.6	11.8	17.6
104	9.2	7.3	10.9

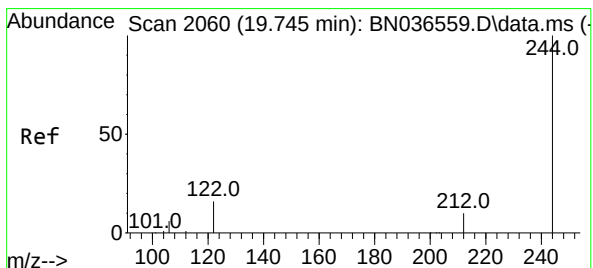
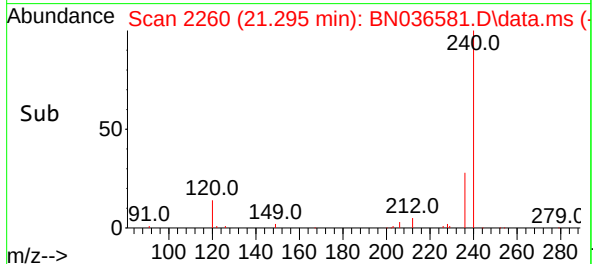
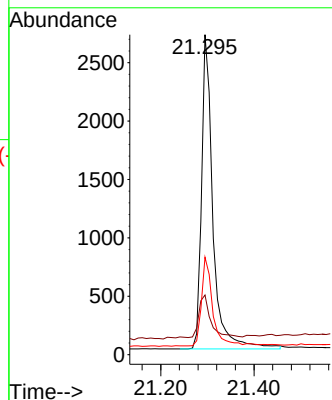
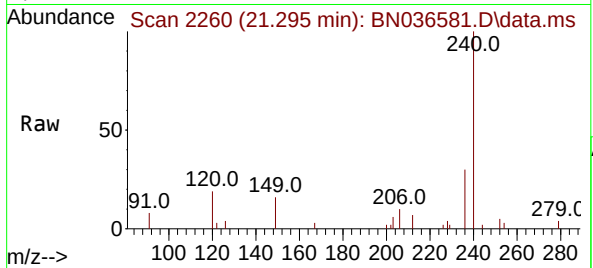




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

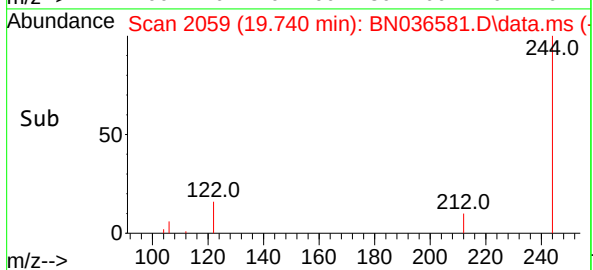
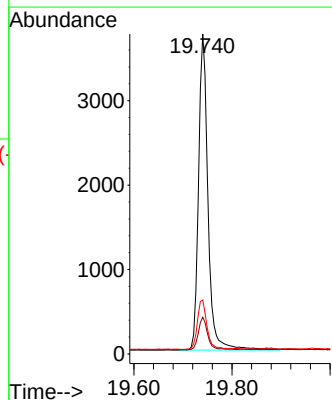
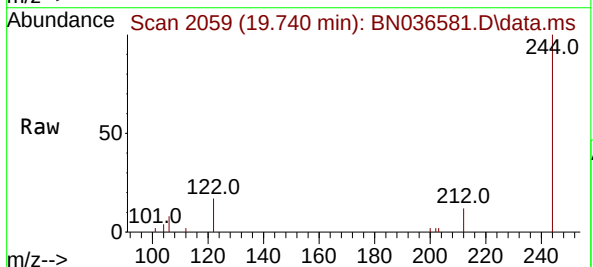
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

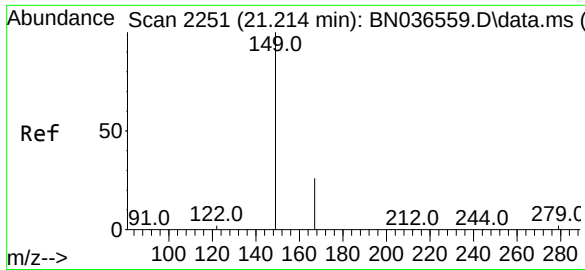
Tgt Ion:240 Resp: 4562
Ion Ratio Lower Upper
240 100
120 18.7 14.6 22.0
236 30.4 24.1 36.1



#31
Terphenyl-d14
Concen: 0.456 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion:244 Resp: 4984
Ion Ratio Lower Upper
244 100
212 11.5 9.6 14.4
122 16.8 13.9 20.9

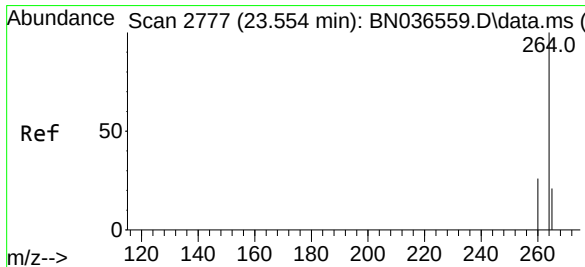
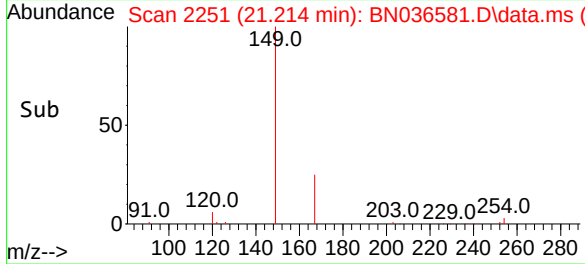
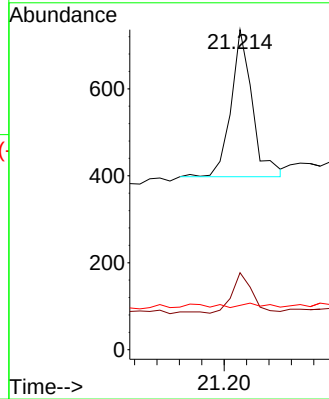
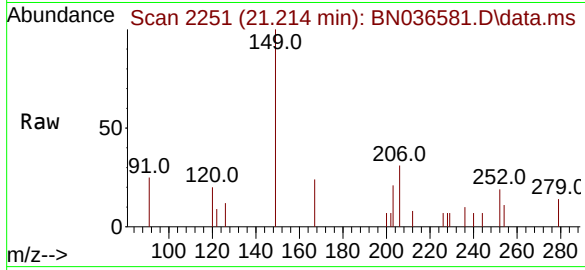




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.039 ng
RT: 21.214 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

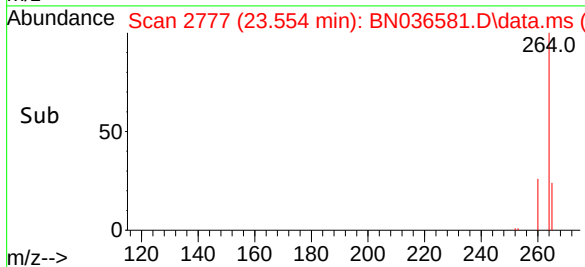
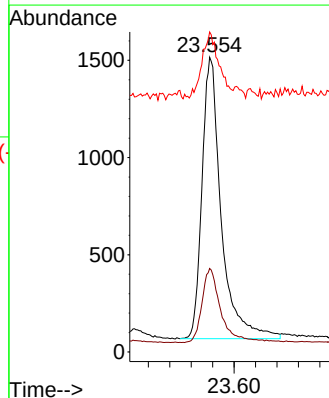
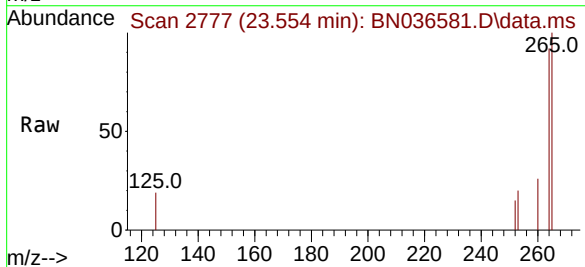
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306DL

Tgt Ion:149 Resp: 444
Ion Ratio Lower Upper
149 100
167 26.4 20.7 31.1
279 3.2 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036581.D
Acq: 11 Mar 2025 14:57

Tgt Ion:264 Resp: 3613
Ion Ratio Lower Upper
264 100
260 28.4 22.6 33.8
265 108.6 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D3-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036593.D	1	03/10/25 11:35	03/12/25 10:26	PB167057

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.724				
1146-65-2	Naphthalene-d8	4460	10.509				
15067-26-2	Acenaphthene-d10	2880	14.356				
1517-22-2	Phenanthrene-d10	5110	17.111				
1719-03-5	Chrysene-d12	3420	21.295				
1520-96-3	Perylene-d12	2970	23.551				

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\BN031225\
Data File : BN036593.D
Acq On : 12 Mar 2025 10:26
Operator : RC/JU
Sample : Q1531-10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

Quant Time: Mar 12 10:50:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

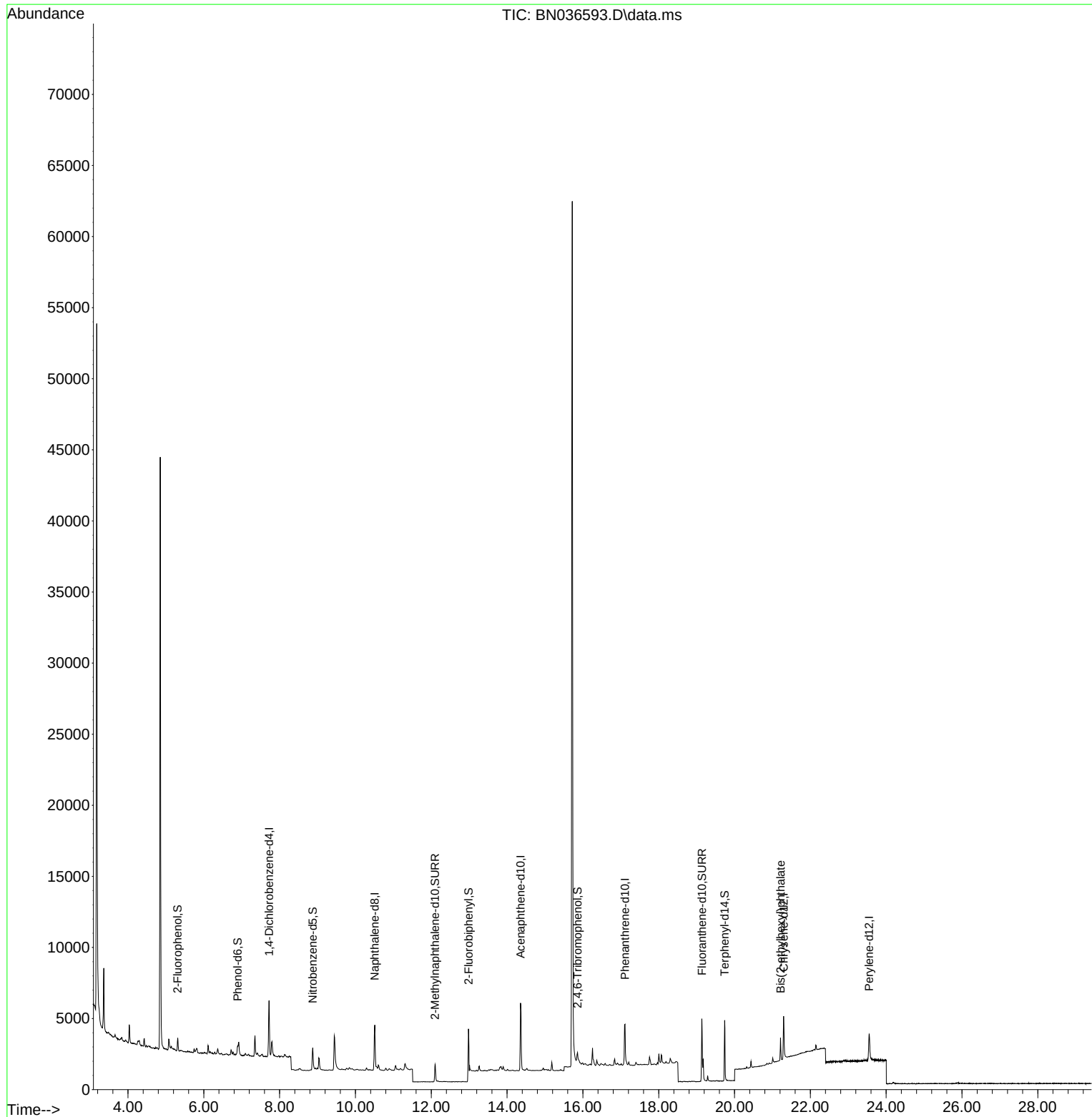
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1963	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4459	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2879	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5114	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3421	0.400	ng	0.00
35) Perylene-d12	23.551	264	2969	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	634	0.139	ng	0.00
5) Phenol-d6	6.894	99	421	0.074	ng	0.00
8) Nitrobenzene-d5	8.875	82	1484	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1943	0.293	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	475	0.364	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	5205	0.311	ng	0.00
27) Fluoranthene-d10	19.141	212	5327	0.406	ng	0.00
31) Terphenyl-d14	19.740	244	4189	0.511	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	1643	0.194	ng	Qvalue 96

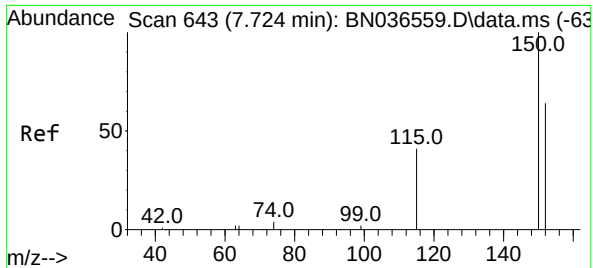
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036593.D
Acq On : 12 Mar 2025 10:26
Operator : RC/JU
Sample : Q1531-10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

Quant Time: Mar 12 10:50:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

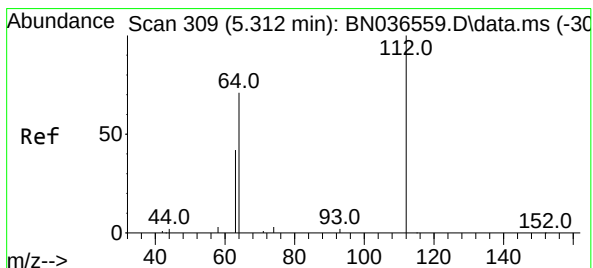
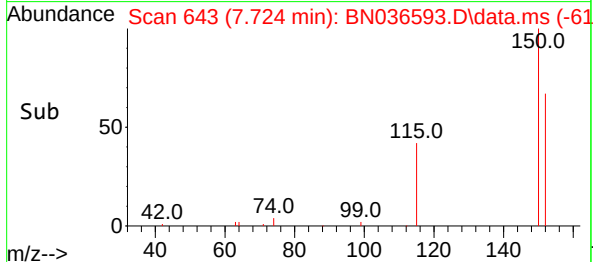
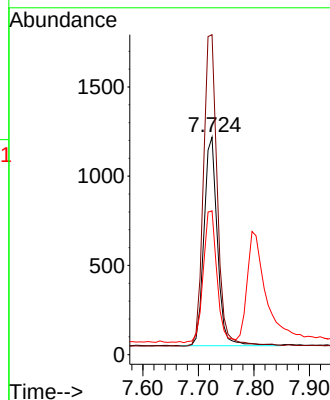
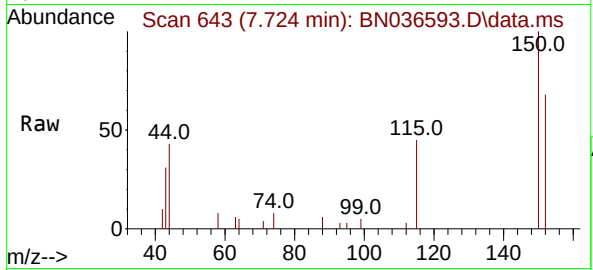




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

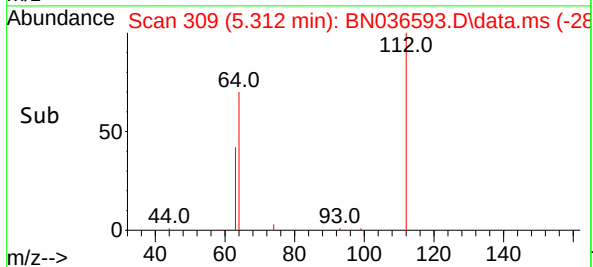
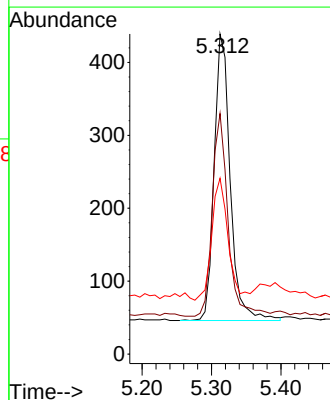
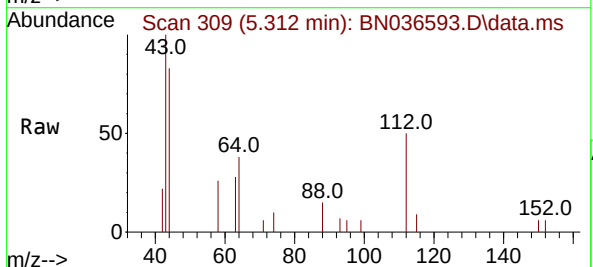
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

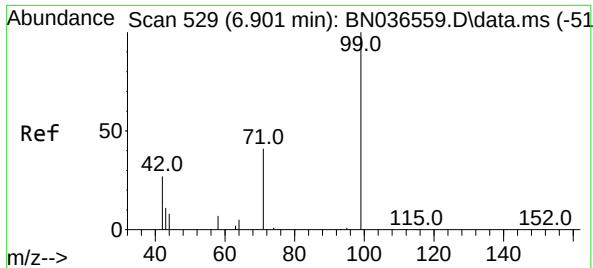
Tgt Ion:	152	Resp:	1963
Ion	Ratio	Lower	Upper
152	100		
150	147.2	123.7	185.5
115	66.2	54.3	81.5



#4
2-Fluorophenol
Concen: 0.139 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion:	112	Resp:	634
Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	43.2	31.8	47.8

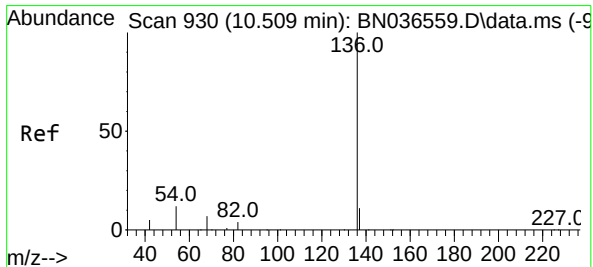
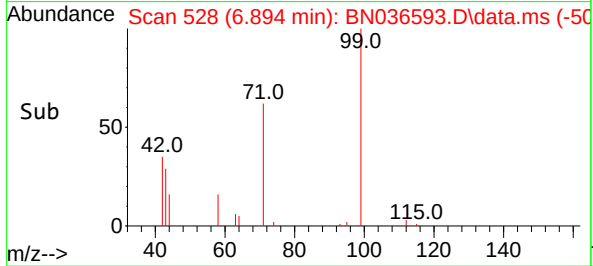
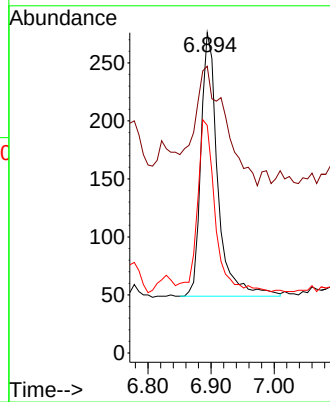
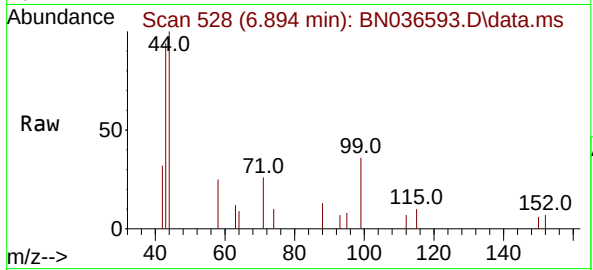




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

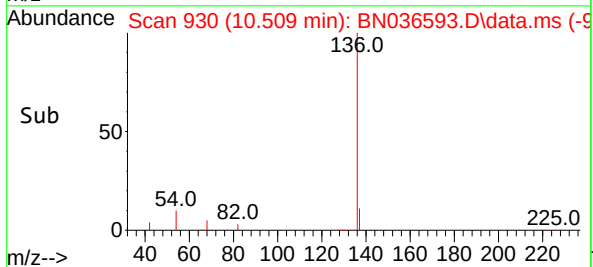
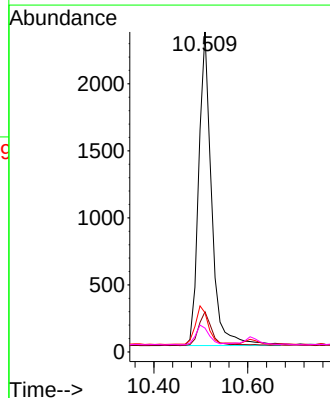
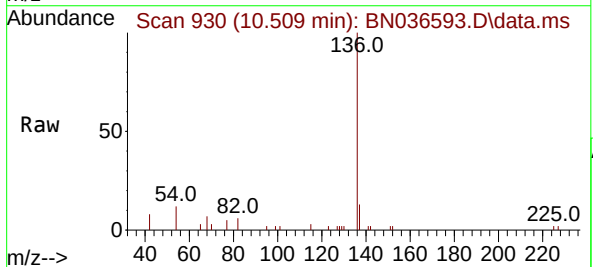
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

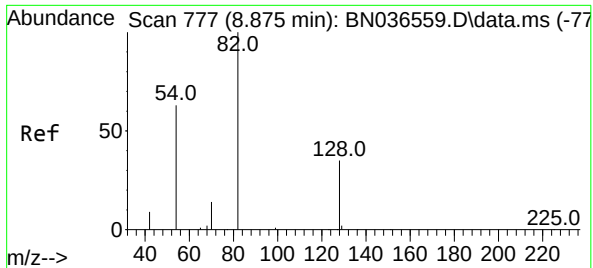
Tgt Ion: 99 Resp: 421
Ion Ratio Lower Upper
99 100
42 83.1 26.5 39.7#
71 68.6 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion: 136 Resp: 4459
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 12.2 11.5 17.3
68 7.4 7.0 10.4

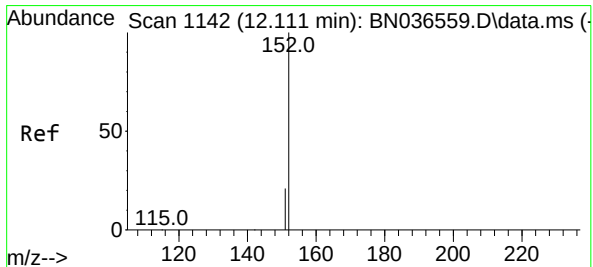
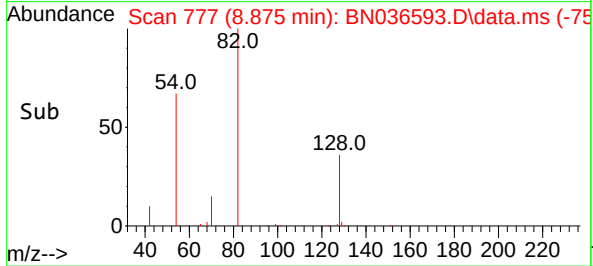
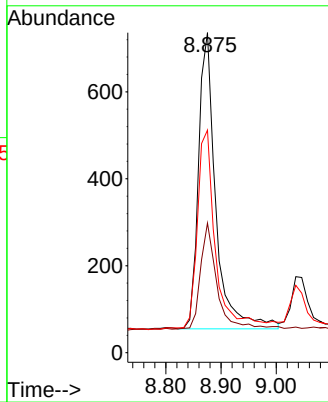
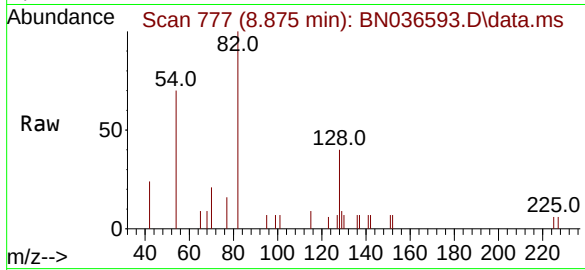




#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

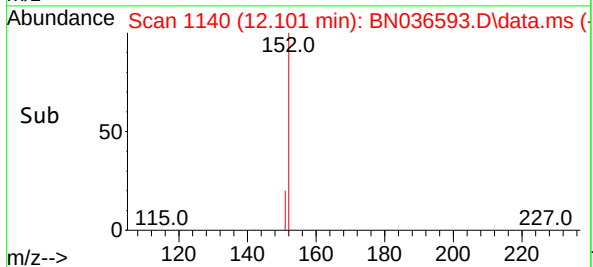
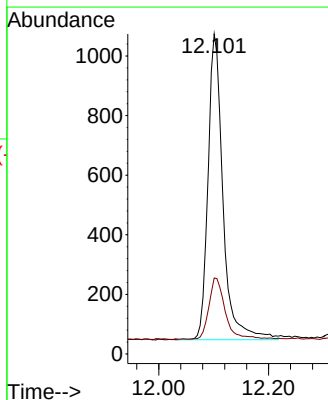
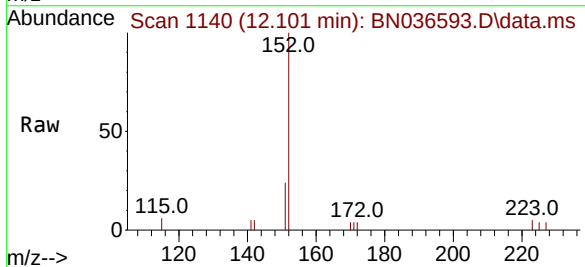
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

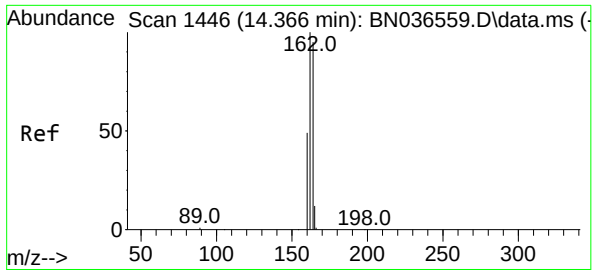
Tgt Ion:	82	Resp:	1484
Ion	Ratio	Lower	Upper
82	100		
128	40.5	30.6	45.8
54	69.6	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion:	152	Resp:	1943
Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

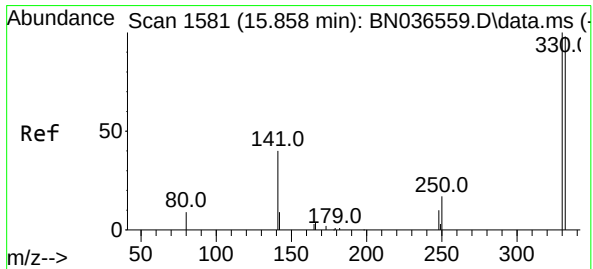
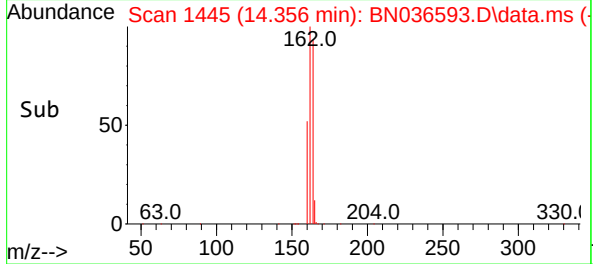
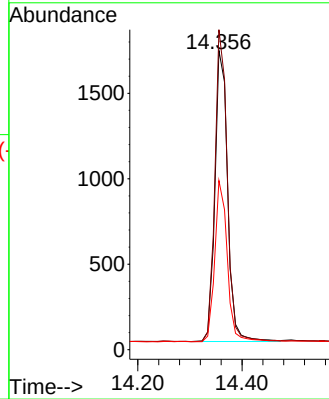
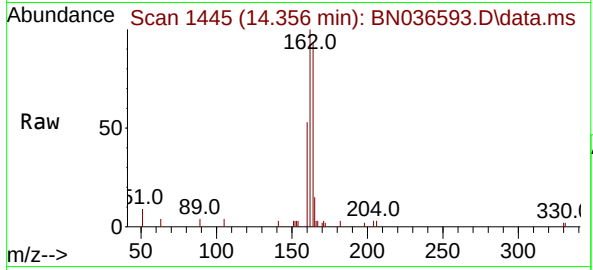




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

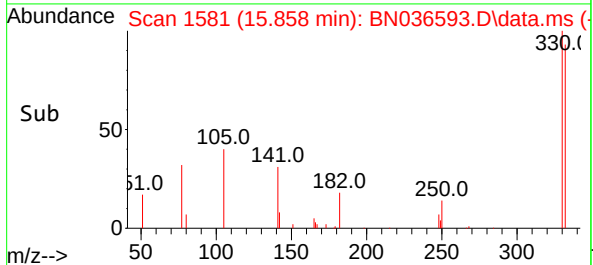
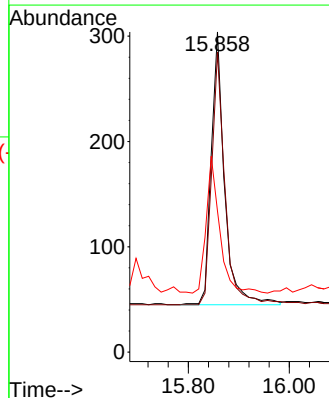
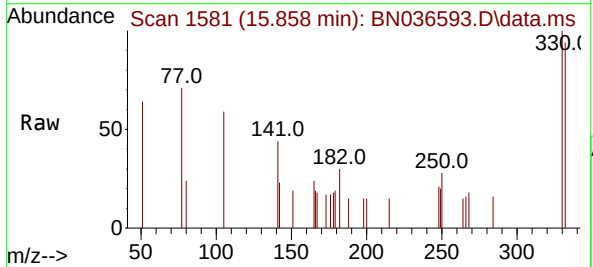
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

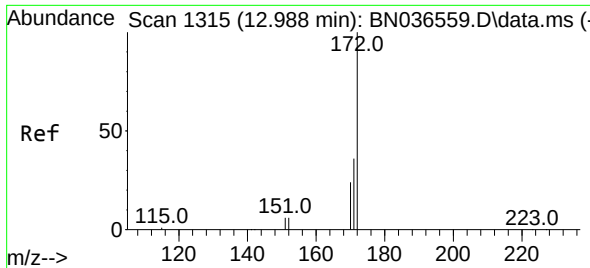
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 107.0 84.2 126.2
160 56.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion:330 Resp: 475
Ion Ratio Lower Upper
330 100
332 93.1 75.2 112.8
141 51.6 43.4 65.2

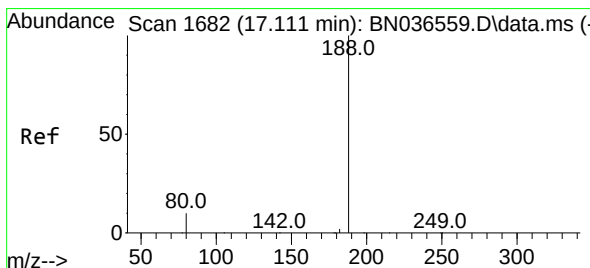
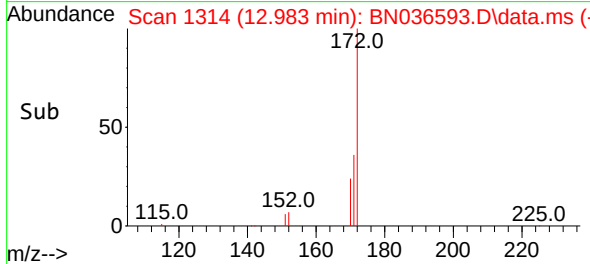
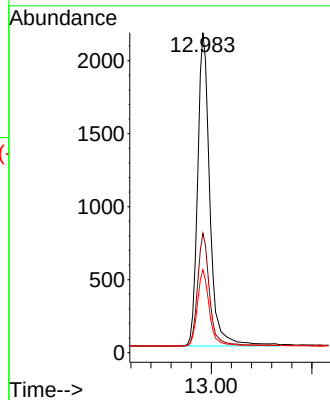
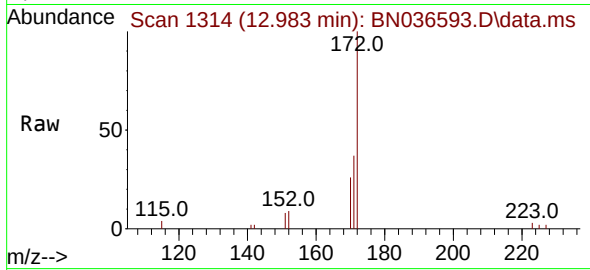




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

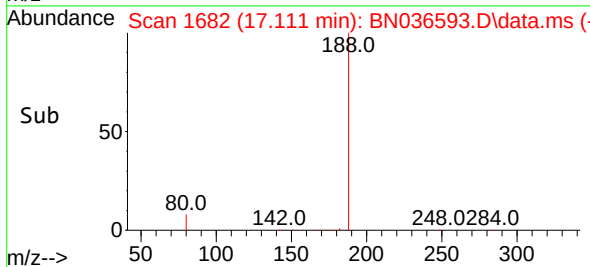
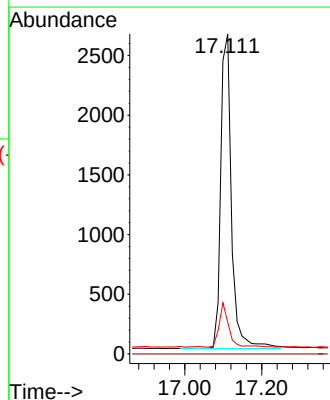
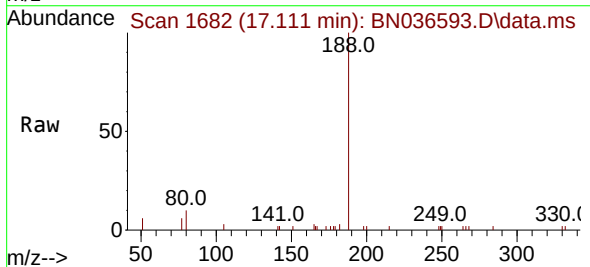
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

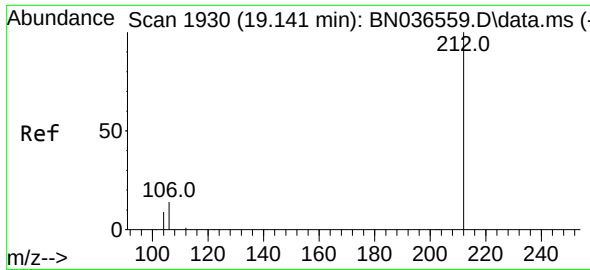
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.5	44.3
170	25.9	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2

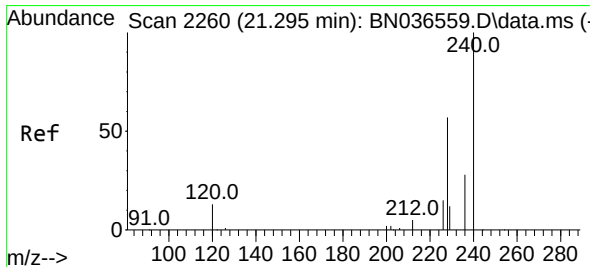
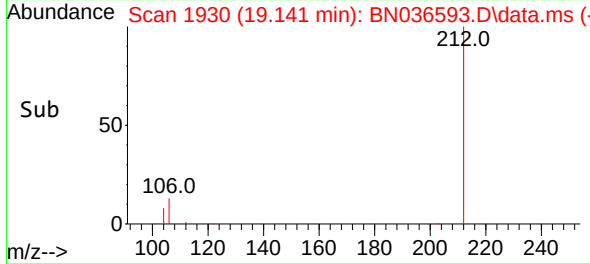
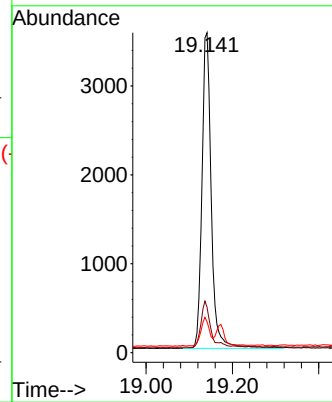
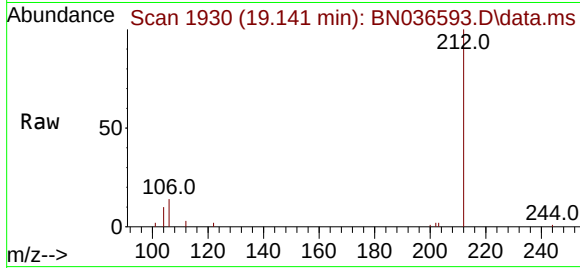




#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

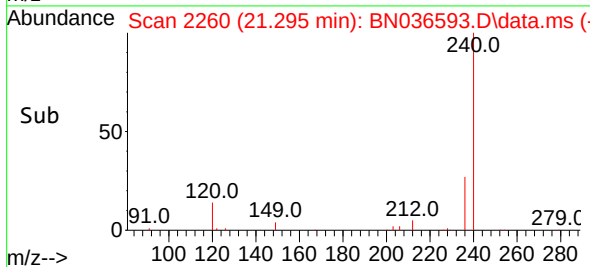
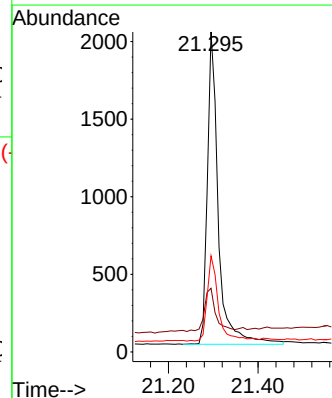
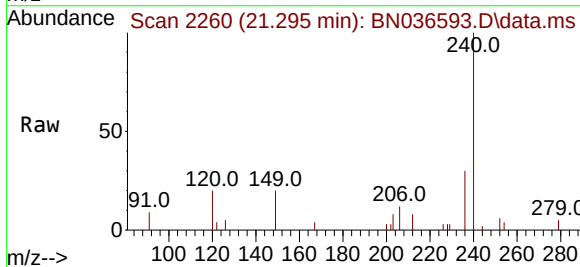
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

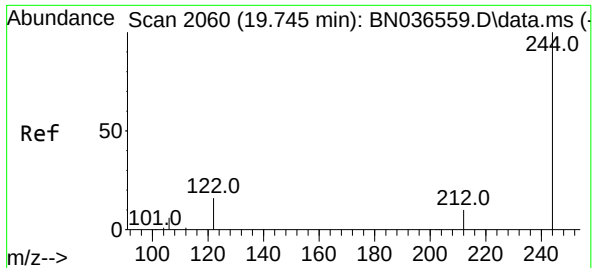
Tgt Ion:	212	Resp:	5327
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.2	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion:	240	Resp:	3421
Ion	Ratio	Lower	Upper
240	100		
120	19.9	14.6	22.0
236	30.1	24.1	36.1

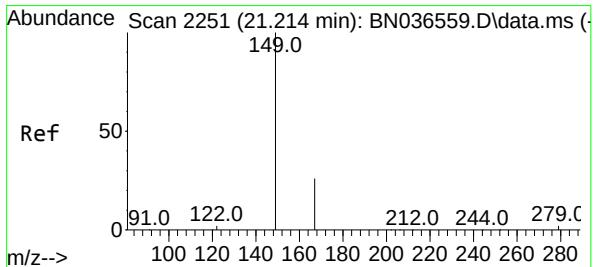
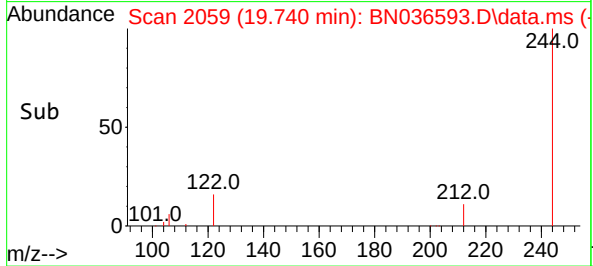
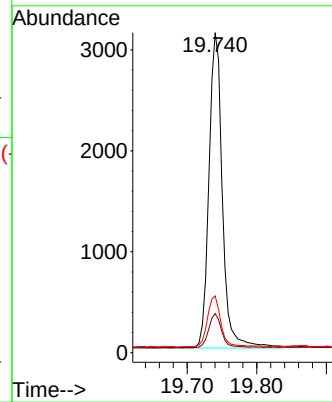
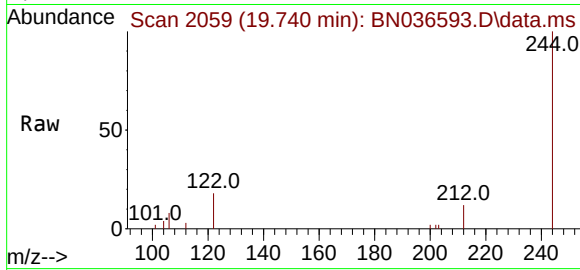




#31
Terphenyl-d14
Concen: 0.511 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

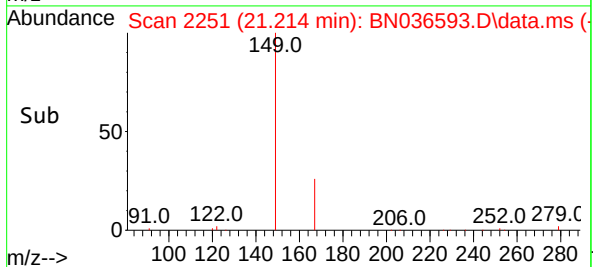
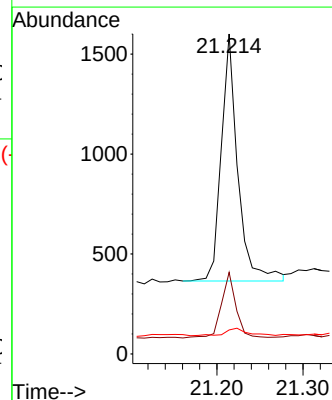
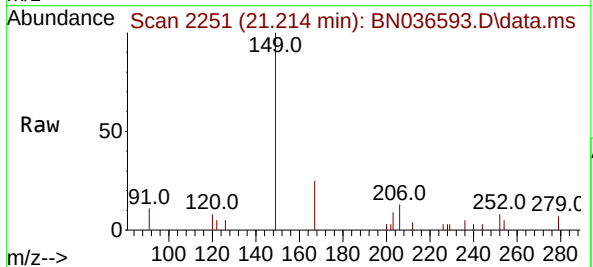
Instrument :
BNA_N
ClientSampleId :
RE103D3-20250306

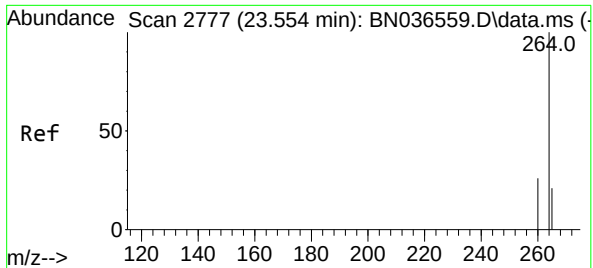
Tgt Ion:244	Resp:	4189
Ion Ratio	Lower	Upper
244	100	
212	12.2	9.6 14.4
122	17.8	13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.194 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036593.D
Acq: 12 Mar 2025 10:26

Tgt Ion:149	Resp:	1643
Ion Ratio	Lower	Upper
149	100	
167	23.5	20.7 31.1
279	4.2	3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036593.D

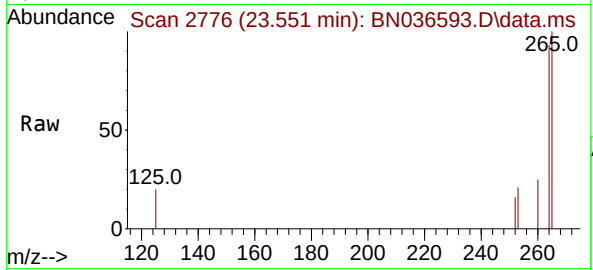
Acq: 12 Mar 2025 10:26

Instrument :

BNA_N

ClientSampleId :

RE103D3-20250306



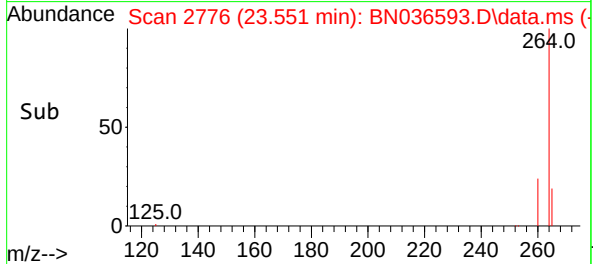
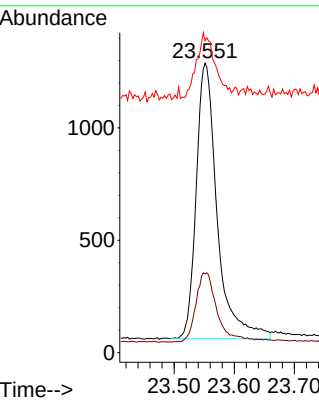
Tgt Ion:264 Resp: 2969

Ion	Ratio	Lower	Upper

264	100		

260	27.3	22.6	33.8

265	107.8	88.1	132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-11	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
BN036582.D	1	03/10/25 11:35	03/11/25 15:32	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.48		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	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.82	*	58 - 132		206%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2160	7.724				
1146-65-2	Naphthalene-d8	4920	10.509				
15067-26-2	Acenaphthene-d10	2930	14.366				
1517-22-2	Phenanthrene-d10	5750	17.111				
1719-03-5	Chrysene-d12	3770	21.295				
1520-96-3	Perylene-d12	3250	23.557				

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\BN031125\
Data File : BN036582.D
Acq On : 11 Mar 2025 15:32
Operator : RC/JU
Sample : Q1531-11
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

Quant Time: Mar 11 15:58:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

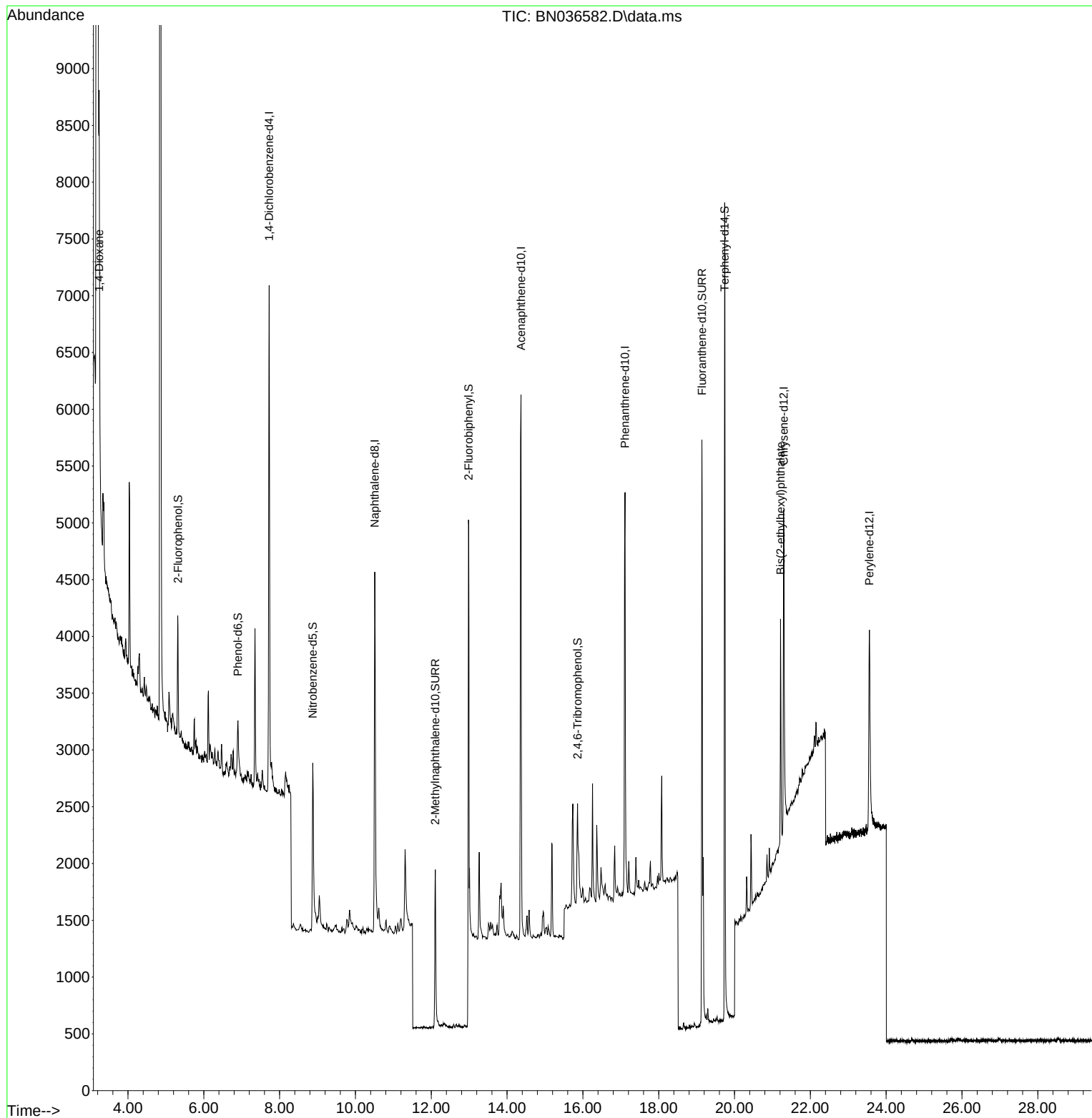
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2161	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4915	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2930	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5748	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3765	0.400	ng	0.00
35) Perylene-d12	23.557	264	3253	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	764	0.152	ng	0.00
5) Phenol-d6	6.901	99	495	0.080	ng	0.00
8) Nitrobenzene-d5	8.875	82	1634	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2304	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	536	0.403	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6493	0.381	ng	0.00
27) Fluoranthene-d10	19.141	212	6150	0.417	ng	0.00
31) Terphenyl-d14	19.740	244	7435	0.824	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1124	0.469	ng	# 83
34) Bis(2-ethylhexyl)phtha...	21.214	149	2180	0.234	ng	95

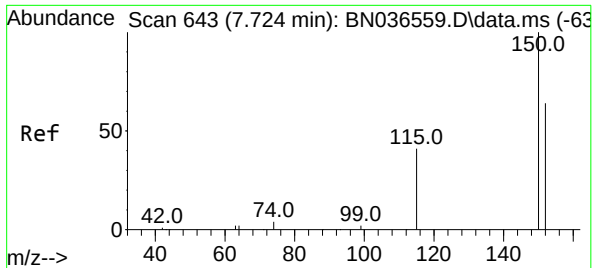
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036582.D
Acq On : 11 Mar 2025 15:32
Operator : RC/JU
Sample : Q1531-11
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

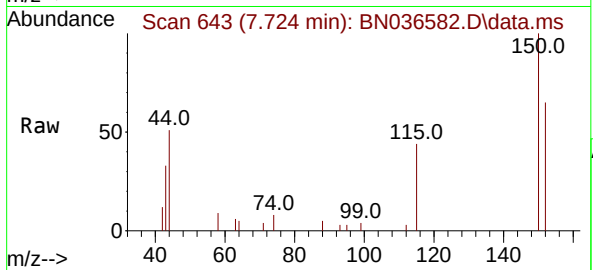
Quant Time: Mar 11 15:58:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



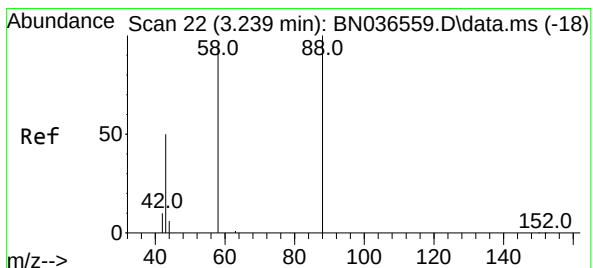
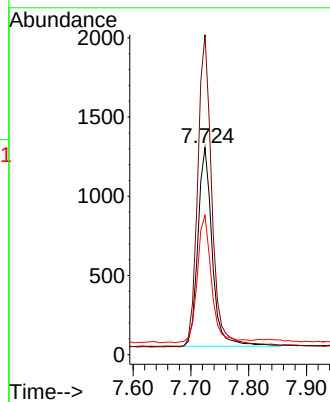
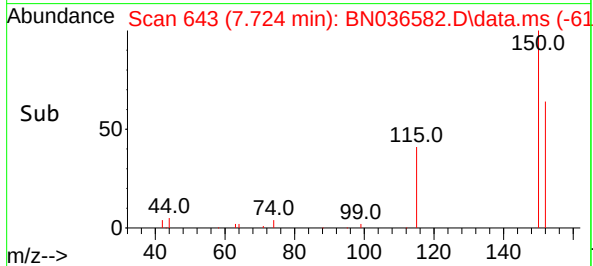


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

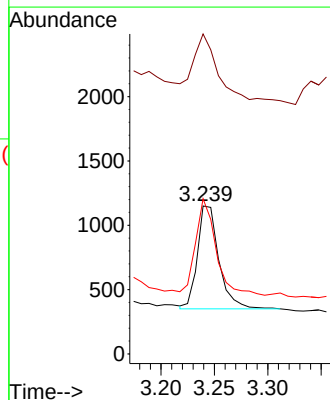
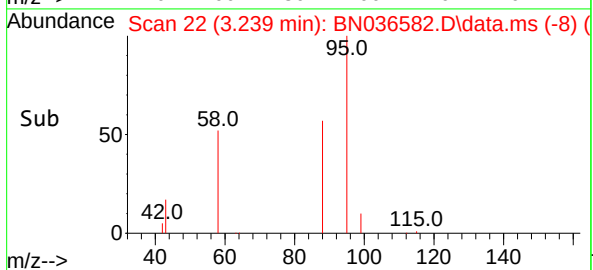
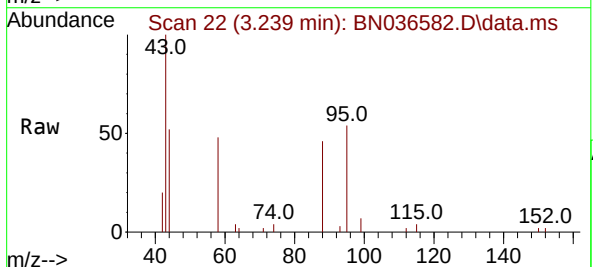


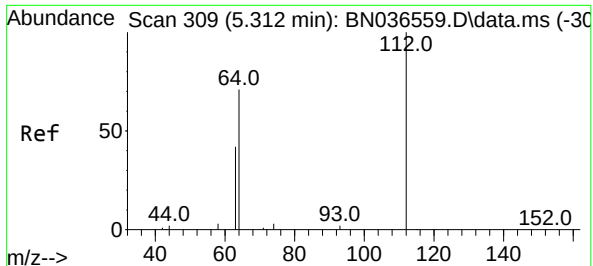
Tgt Ion:152 Resp: 2161
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.3 54.3 81.5



#2
1,4-Dioxane
Concen: 0.469 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion: 88 Resp: 1124
Ion Ratio Lower Upper
88 100
43 73.0 37.8 56.8#
58 88.7 67.4 101.2

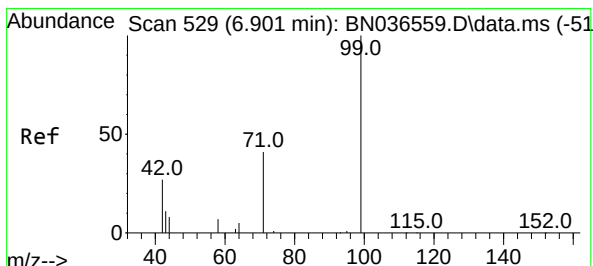
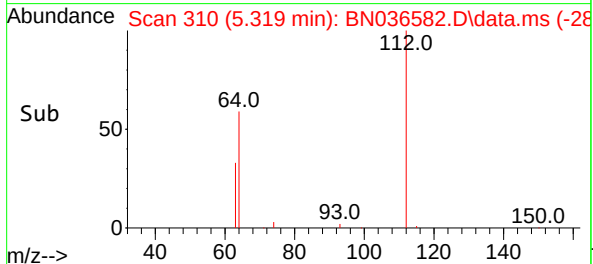
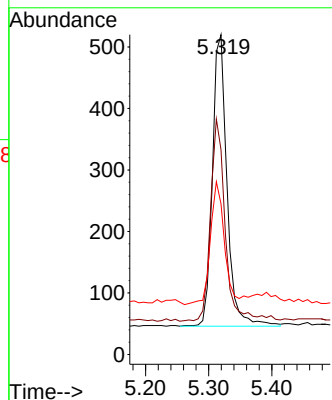
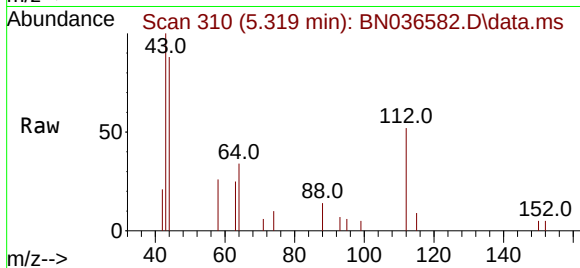




#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

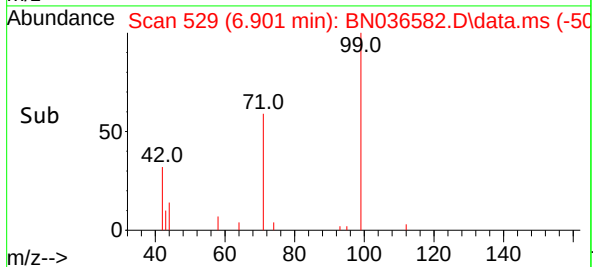
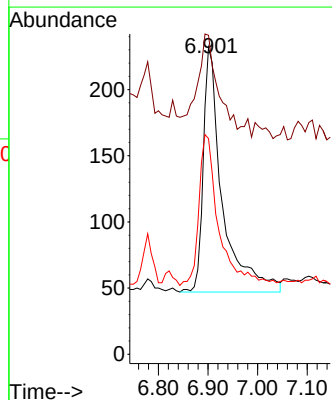
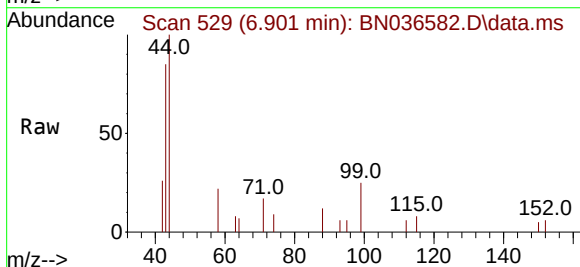
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

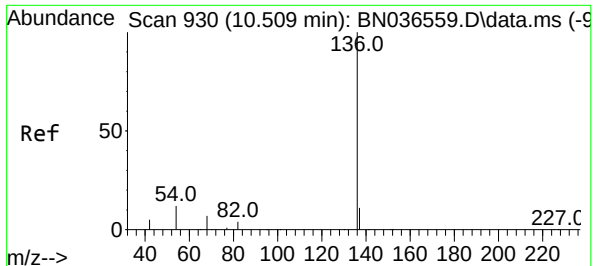
Tgt Ion:	112	Resp:	764
Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.1	79.7
63	40.1	31.8	47.8



#5
Phenol-d6
Concen: 0.080 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion:	99	Resp:	495
Ion	Ratio	Lower	Upper
99	100		
42	37.8	26.5	39.7
71	64.2	34.1	51.1

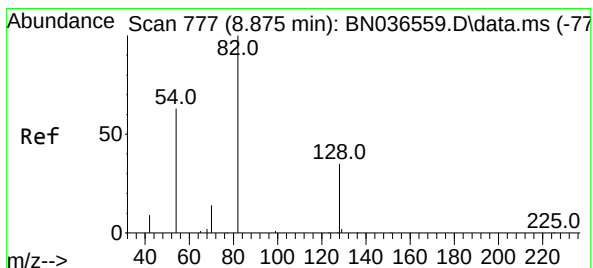
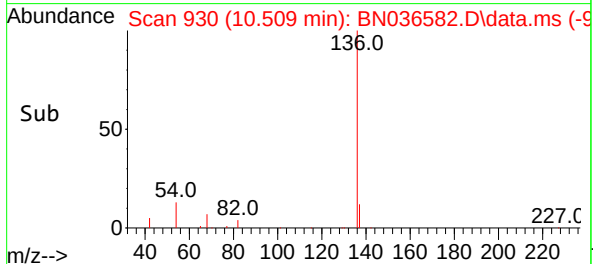
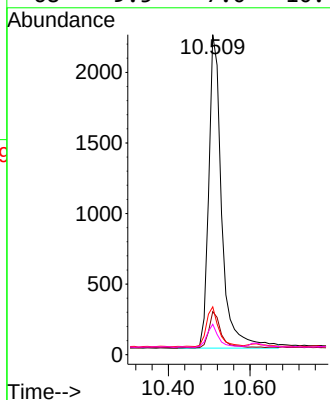
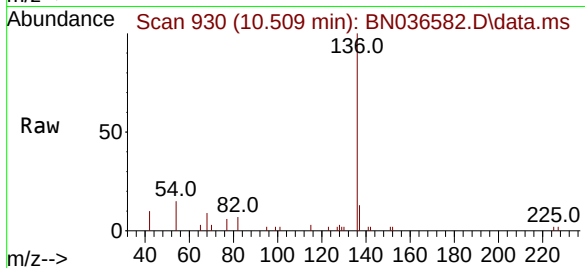




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

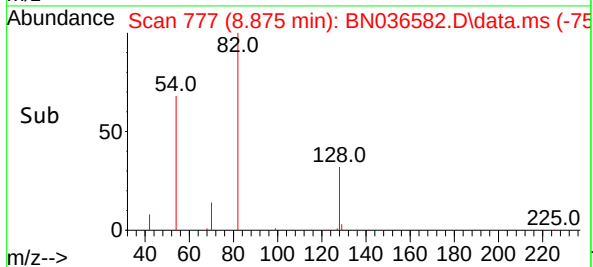
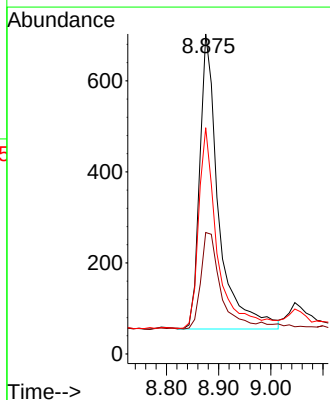
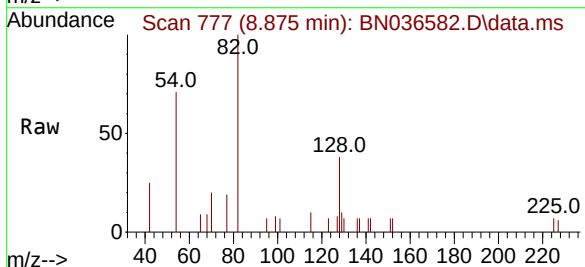
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

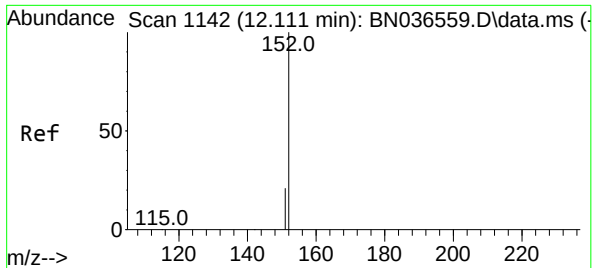
Tgt Ion:	136	Resp:	4915
Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	15.0	11.5	17.3
68	9.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion:	82	Resp:	1634
Ion	Ratio	Lower	Upper
82	100		
128	38.0	30.6	45.8
54	70.7	52.2	78.4

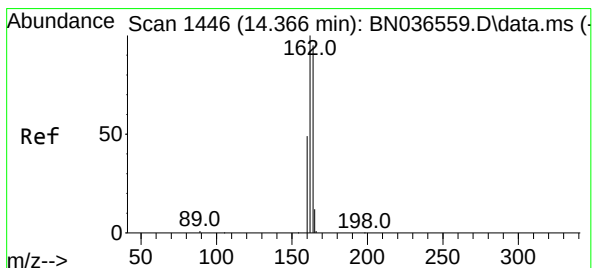
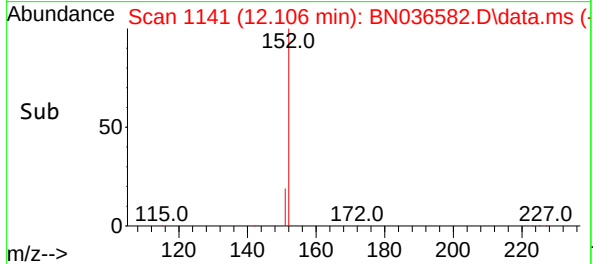
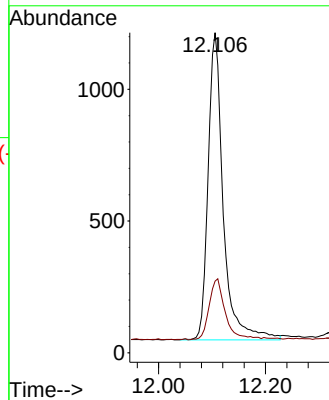
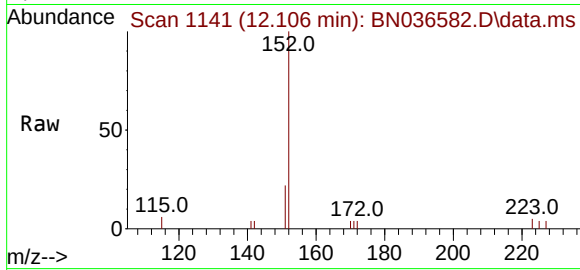




#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

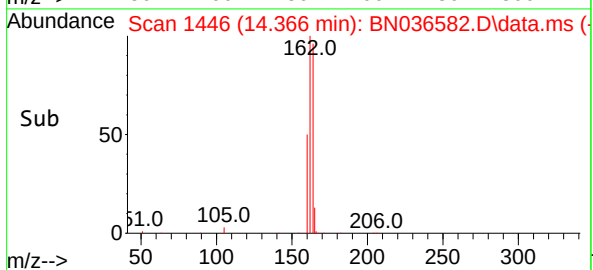
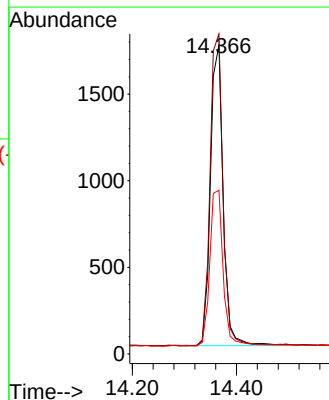
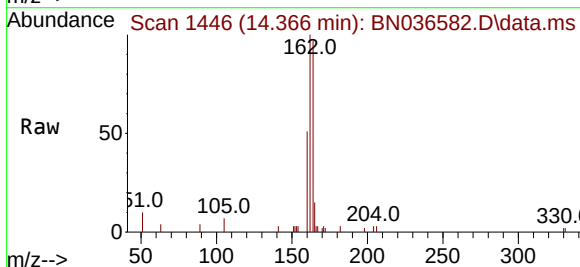
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

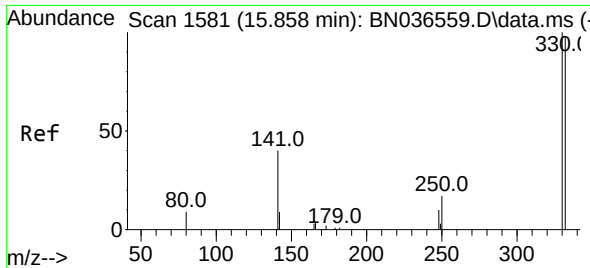
Tgt Ion:152 Resp: 2304
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion:164 Resp: 2930
Ion Ratio Lower Upper
164 100
162 103.5 84.2 126.2
160 53.0 42.2 63.2

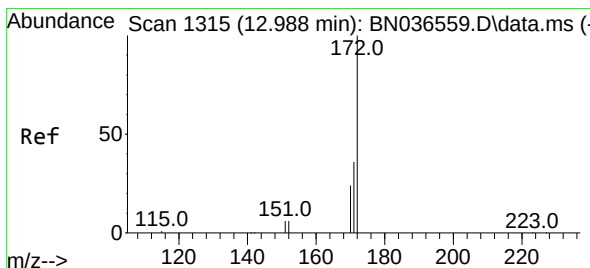
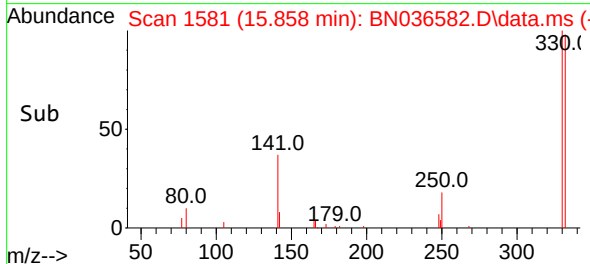
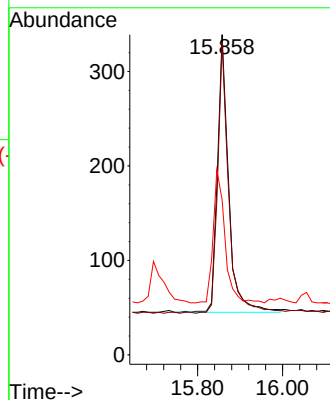
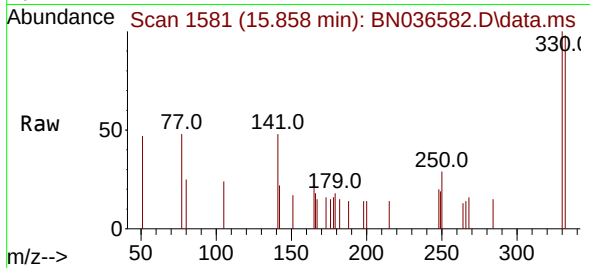




#14
2,4,6-Tribromophenol
Concen: 0.403 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

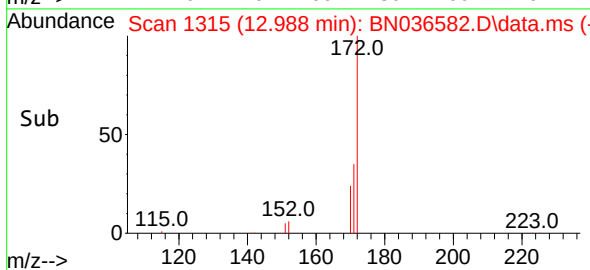
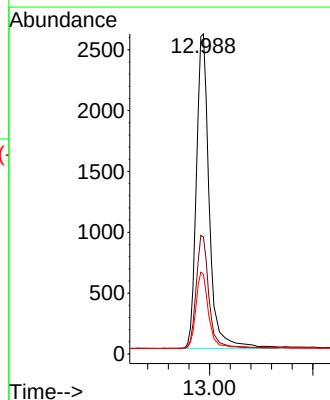
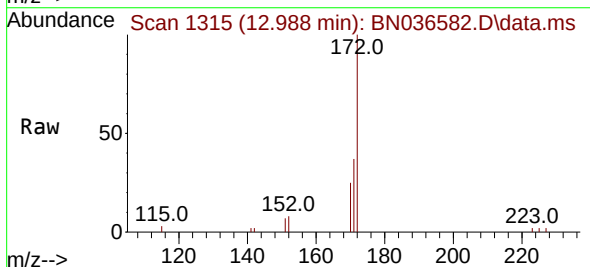
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

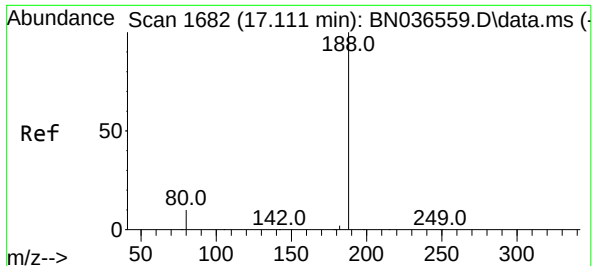
Tgt Ion	330	Resp	536
Ion Ratio	100		
Lower	75.2		
Upper	112.8		



#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion	172	Resp	6493
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	29.5		
Upper	44.3		

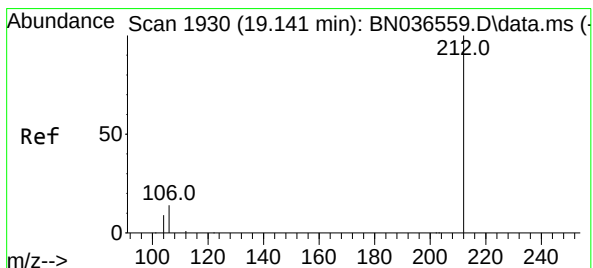
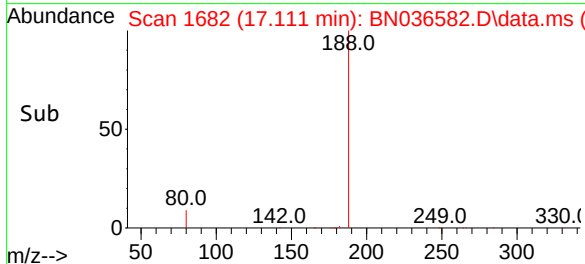
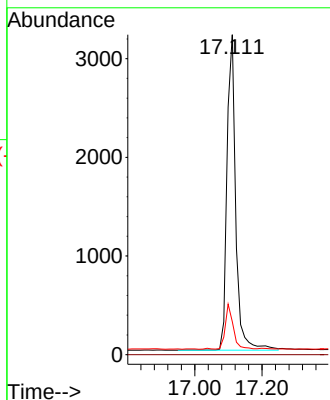
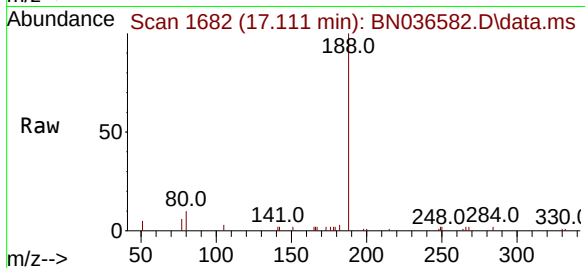




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

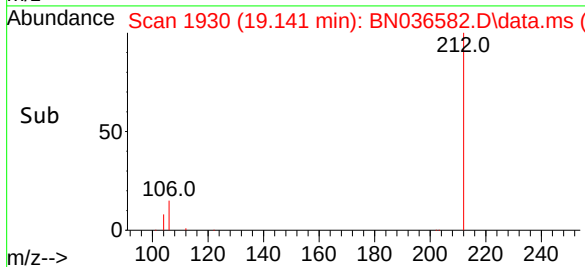
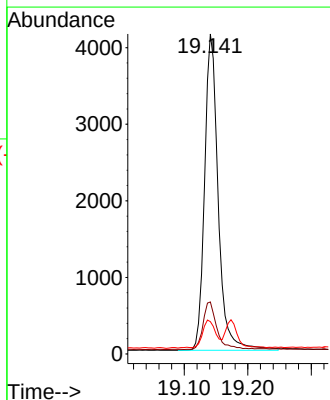
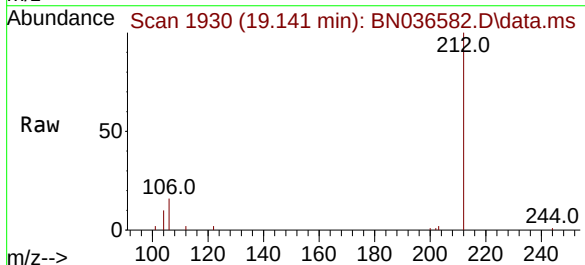
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

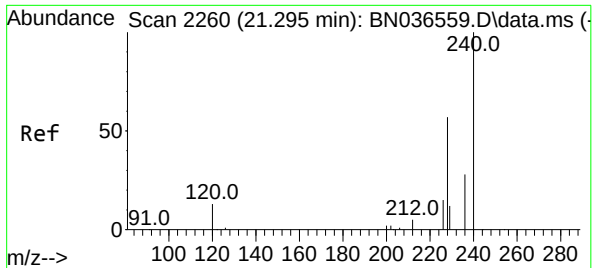
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.417 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

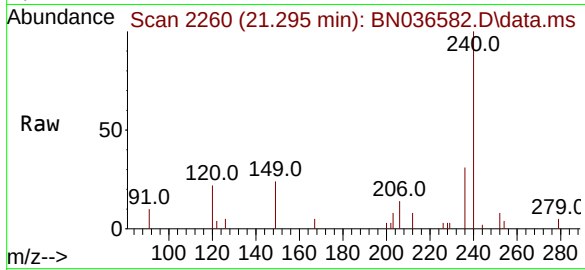
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.4	11.8	17.6
104	8.8	7.3	10.9



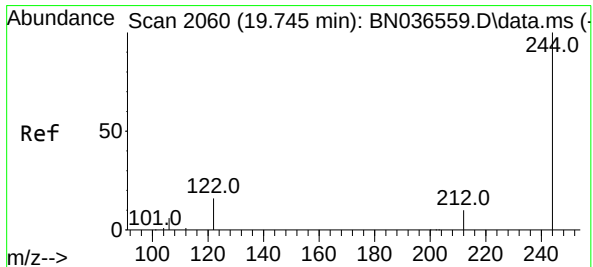
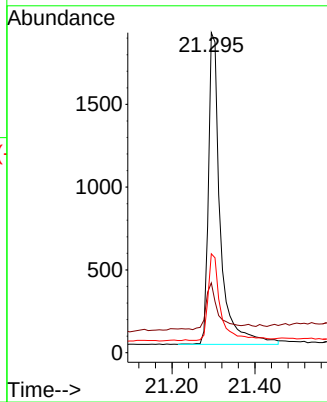
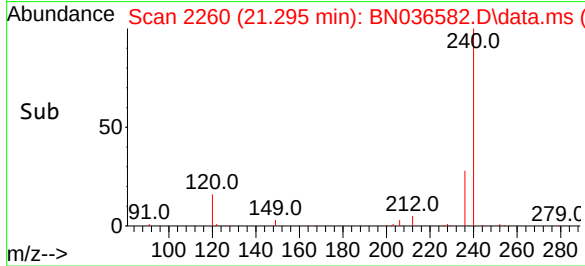


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

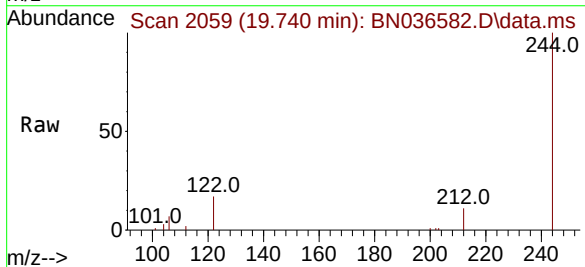
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306



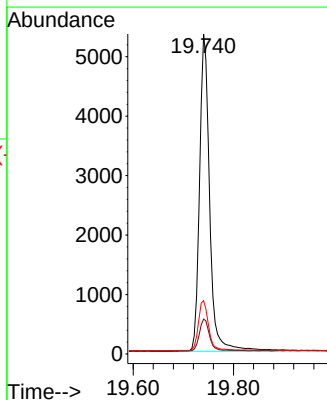
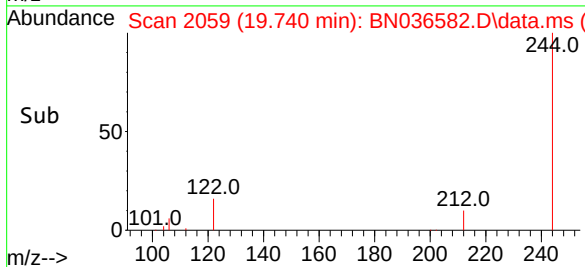
Tgt Ion:240 Resp: 3765
Ion Ratio Lower Upper
240 100
120 21.8 14.6 22.0
236 30.9 24.1 36.1

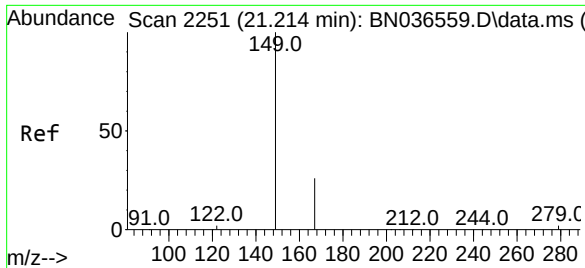


#31
Terphenyl-d14
Concen: 0.824 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32



Tgt Ion:244 Resp: 7435
Ion Ratio Lower Upper
244 100
212 10.9 9.6 14.4
122 16.7 13.9 20.9

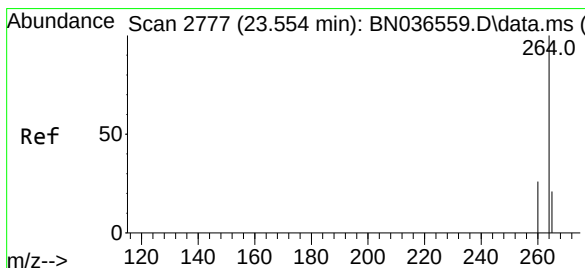
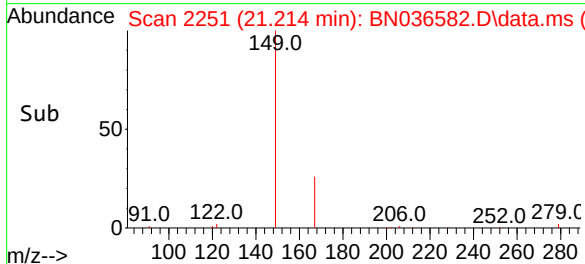
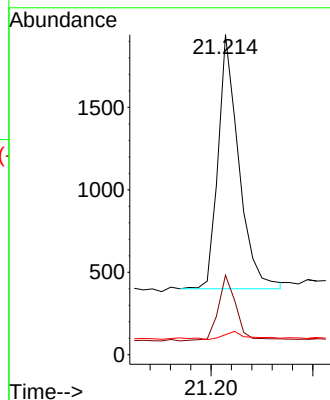
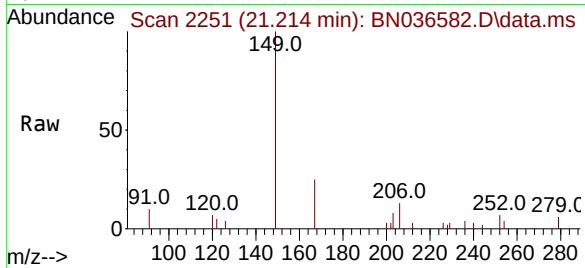




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.234 ng
RT: 21.214 min Scan# 2180
Delta R.T. 0.000 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

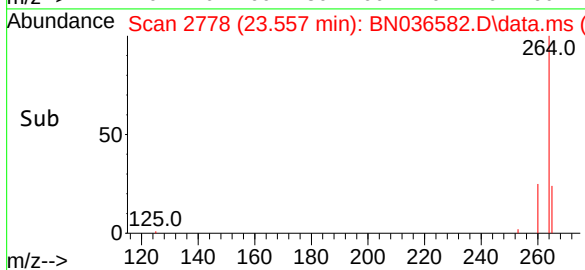
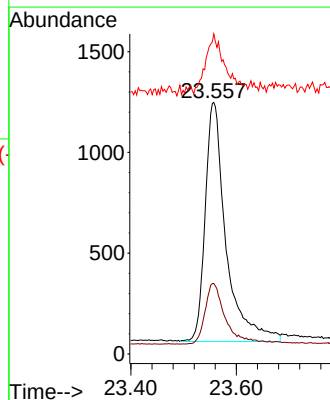
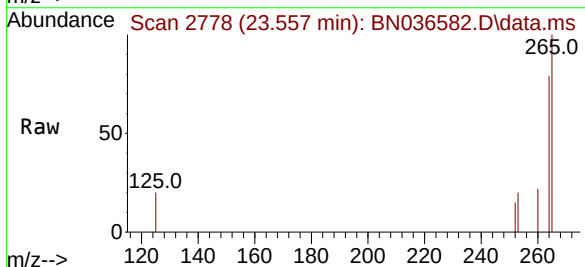
Instrument :
BNA_N
ClientSampleId :
RE103D2-20250306

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.9	20.7	31.1
279	4.0	3.6	5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036582.D
Acq: 11 Mar 2025 15:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	127.2	88.1	132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE108D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-12	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
BN036583.D	1	03/10/25 11:35	03/11/25 16:09	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.70		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	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1900		7.724			
1146-65-2	Naphthalene-d8	4280		10.509			
15067-26-2	Acenaphthene-d10	2640		14.366			
1517-22-2	Phenanthrene-d10	5580		17.111			
1719-03-5	Chrysene-d12	3930		21.295			
1520-96-3	Perylene-d12	3180		23.554			

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\BN031125\
Data File : BN036583.D
Acq On : 11 Mar 2025 16:09
Operator : RC/JU
Sample : Q1531-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

Quant Time: Mar 11 16:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

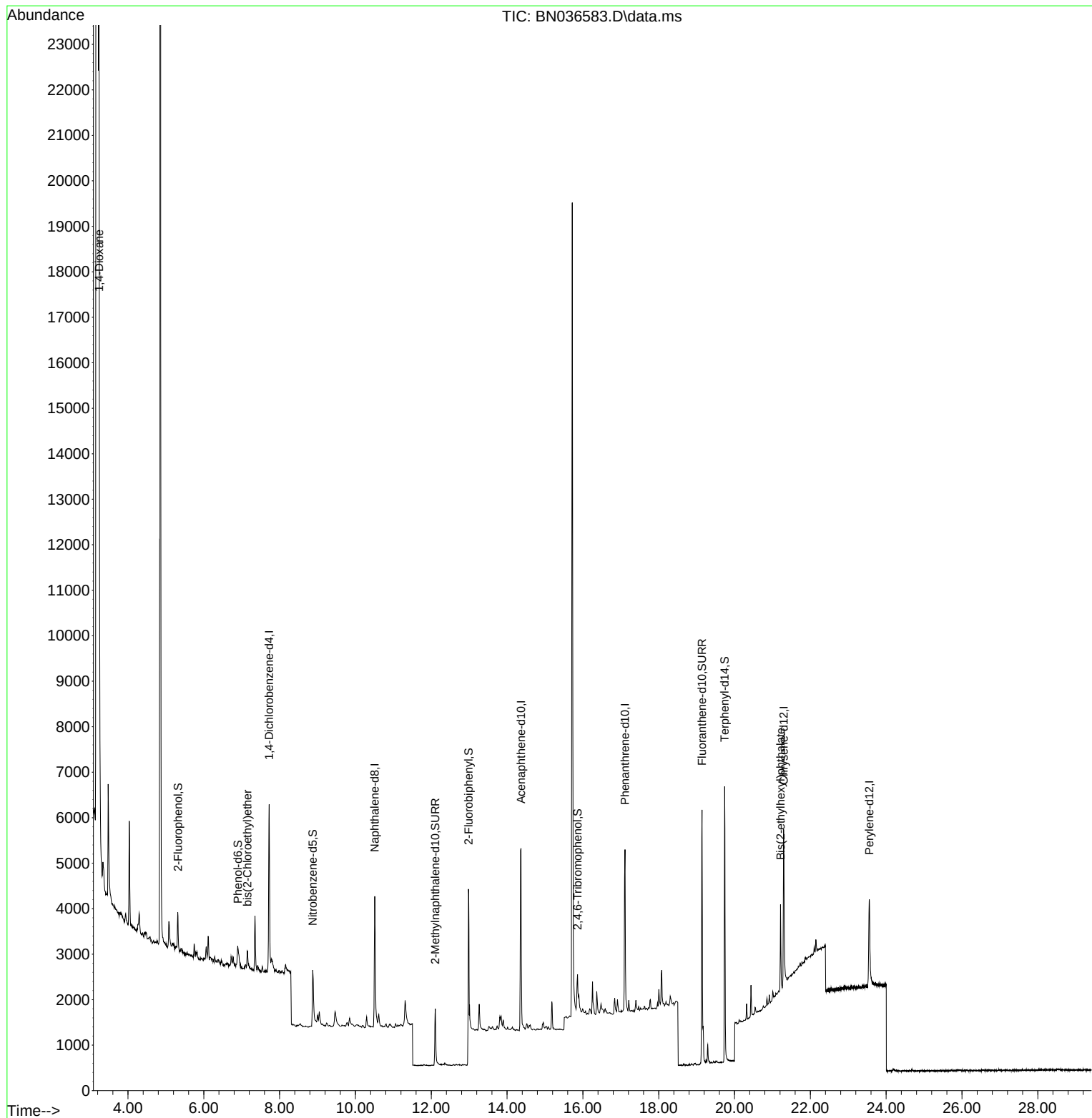
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1904	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4283	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2637	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5582	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3932	0.400	ng	0.00
35) Perylene-d12	23.554	264	3177	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	635	0.143	ng	0.00
5) Phenol-d6	6.901	99	399	0.073	ng	0.00
8) Nitrobenzene-d5	8.875	82	1418	0.304	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2046	0.321	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	500	0.418	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	5552	0.362	ng	0.00
27) Fluoranthene-d10	19.141	212	6475	0.453	ng	0.00
31) Terphenyl-d14	19.740	244	6039	0.641	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5780	2.737	ng	96
6) bis(2-Chloroethyl)ether	7.154	93	296	0.052	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.214	149	1945	0.200	ng	# 93

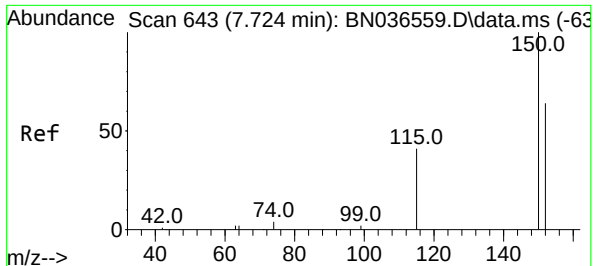
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036583.D
Acq On : 11 Mar 2025 16:09
Operator : RC/JU
Sample : Q1531-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

Quant Time: Mar 11 16:49:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

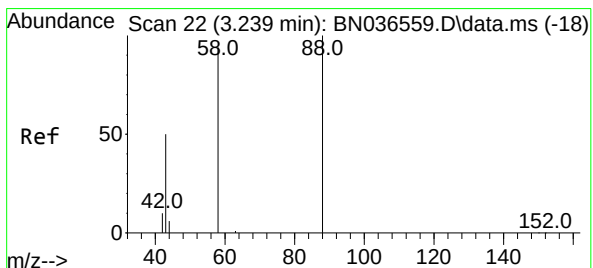
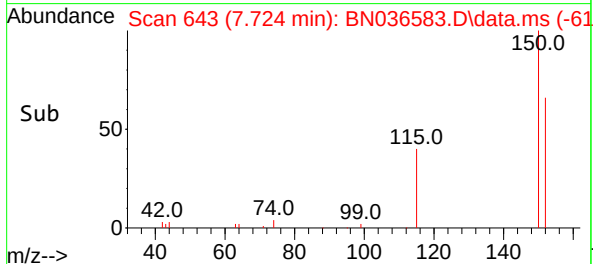
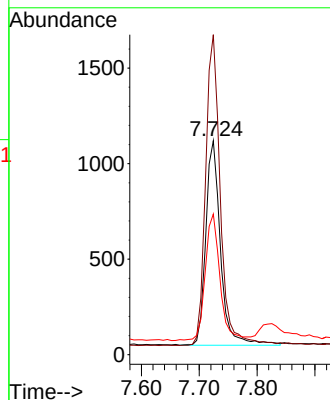
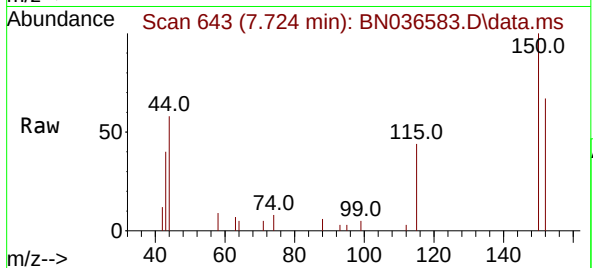




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

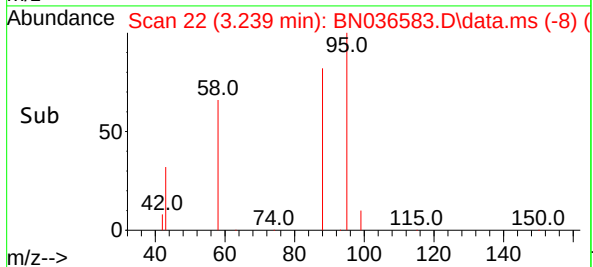
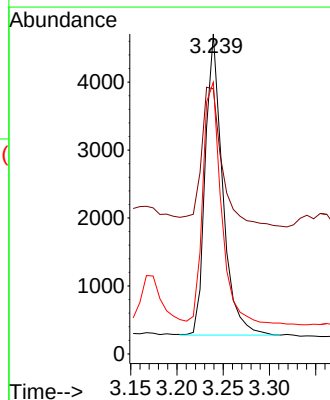
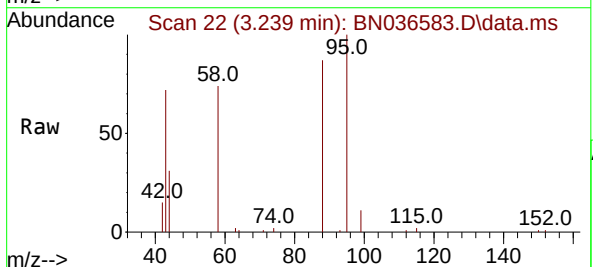
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

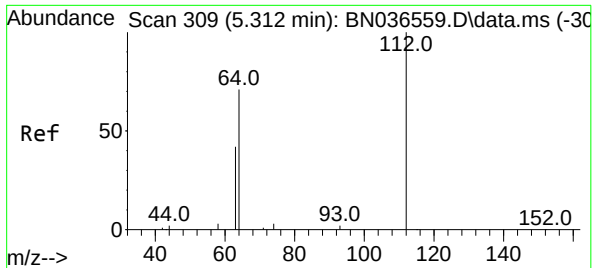
Tgt Ion:152 Resp: 1904
Ion Ratio Lower Upper
152 100
150 149.6 123.7 185.5
115 65.7 54.3 81.5



#2
1,4-Dioxane
Concen: 2.737 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion: 88 Resp: 5780
Ion Ratio Lower Upper
88 100
43 54.9 37.8 56.8
58 84.6 67.4 101.2

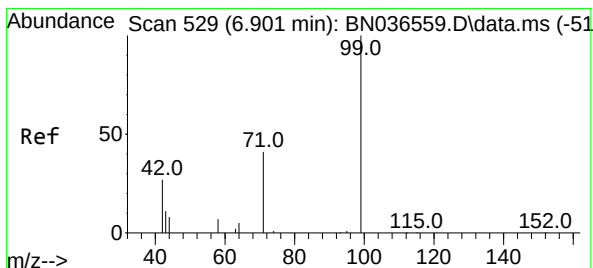
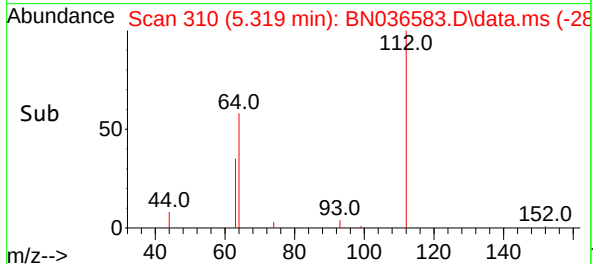
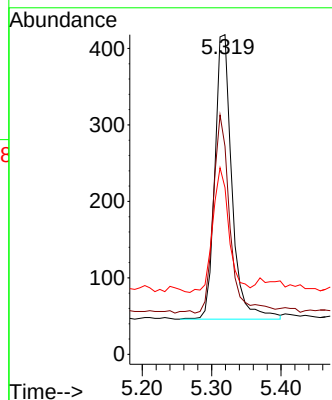
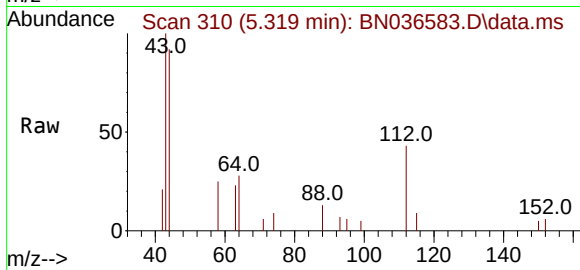




#4
2-Fluorophenol
Concen: 0.143 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

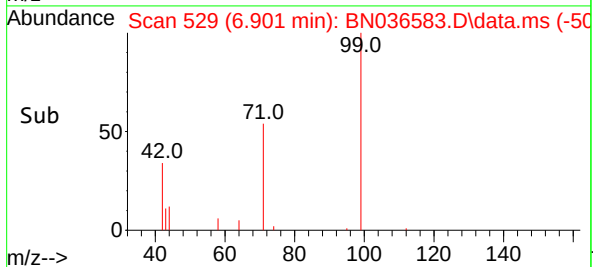
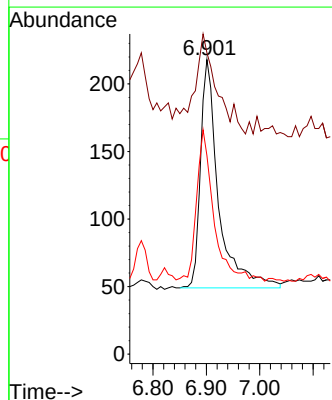
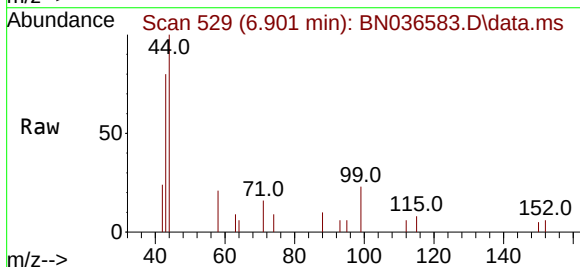
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

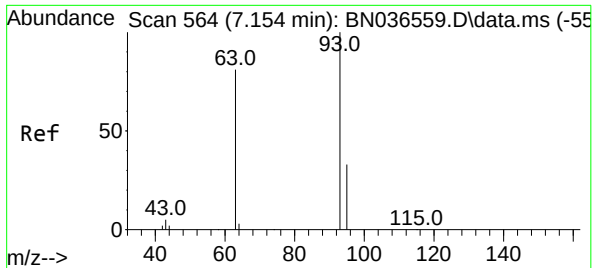
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	42.2	31.8	47.8



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion	Ratio	Lower	Upper
99	100		
42	48.9	26.5	39.7#
71	63.2	34.1	51.1#

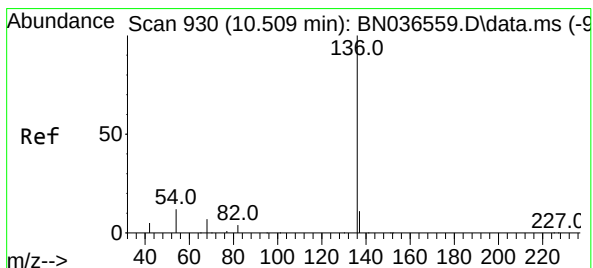
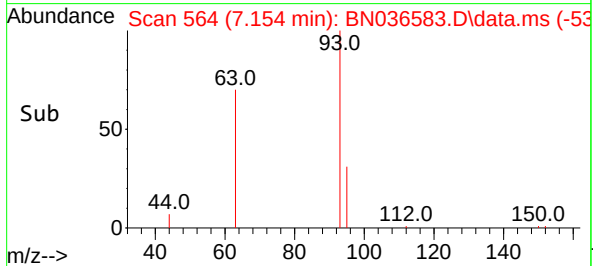
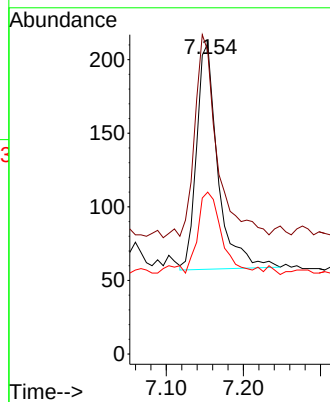
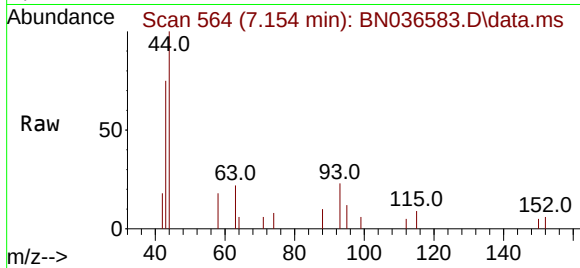




#6
bis(2-Chloroethyl)ether
Concen: 0.052 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

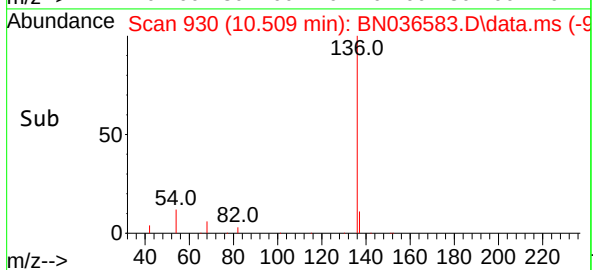
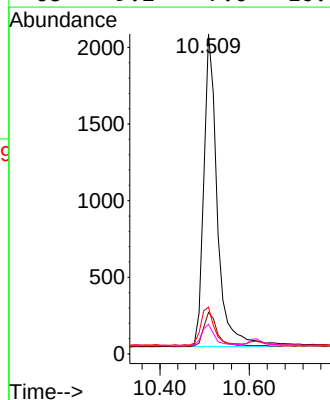
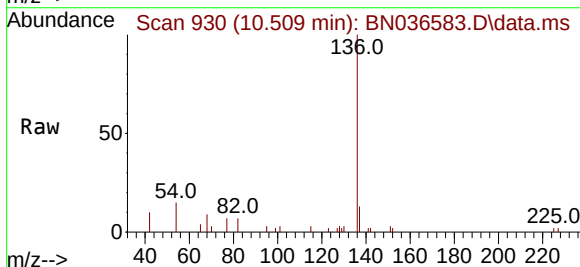
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

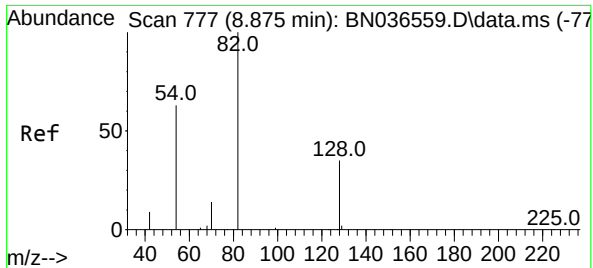
Tgt Ion:	93	Resp:	296
Ion	Ratio	Lower	Upper
93	100		
63	95.6	67.7	101.5
95	38.9	25.6	38.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion:	136	Resp:	4283
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.7	11.5	17.3
68	9.2	7.0	10.4

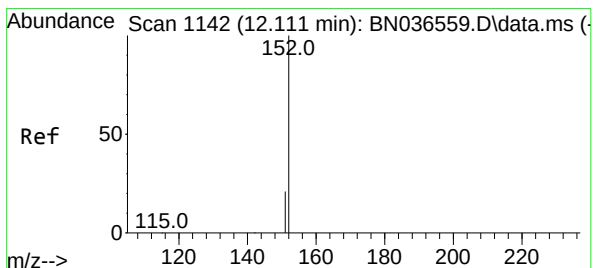
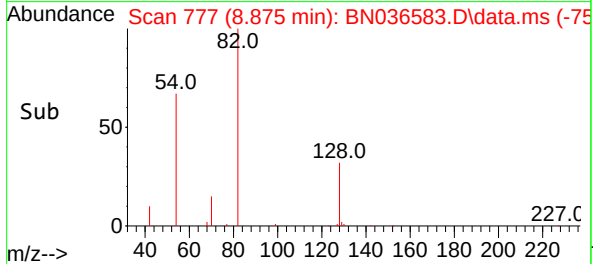
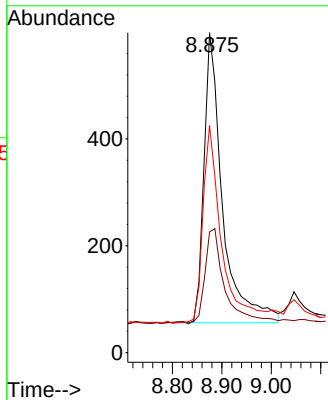
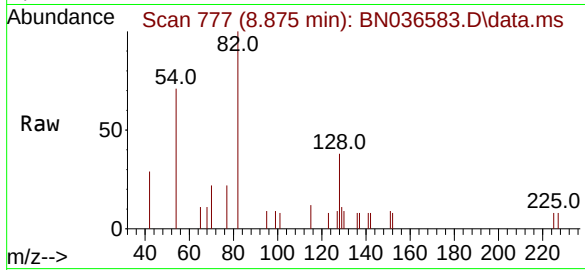




#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

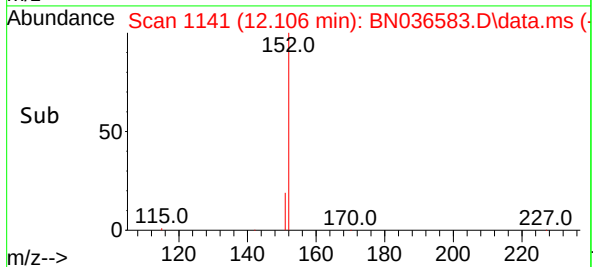
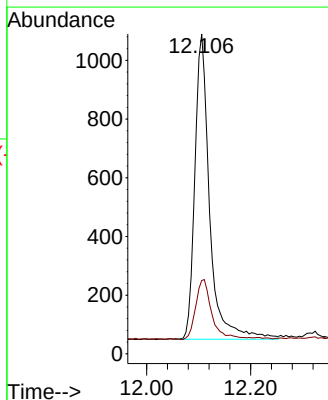
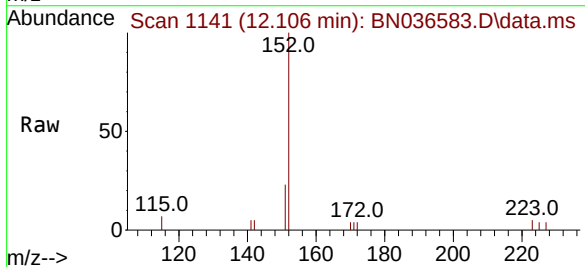
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

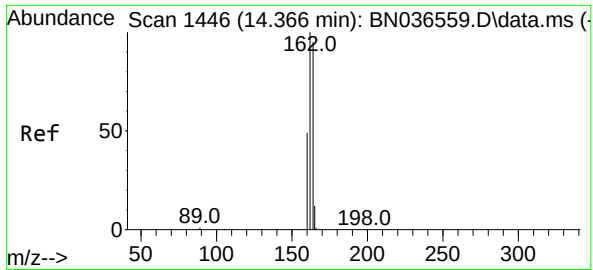
Tgt Ion:	82	Resp:	1418
Ion Ratio	Lower	Upper	
82	100		
128	37.7	30.6	45.8
54	71.0	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.321 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion:	152	Resp:	2046
Ion Ratio	Lower	Upper	
152	100		
151	21.7	17.0	25.6

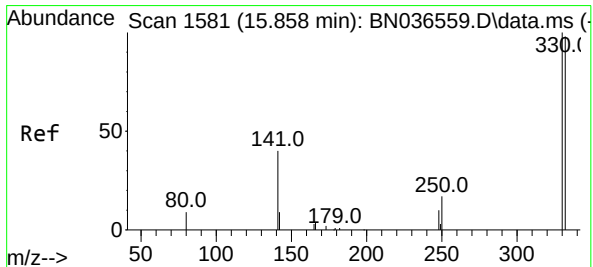
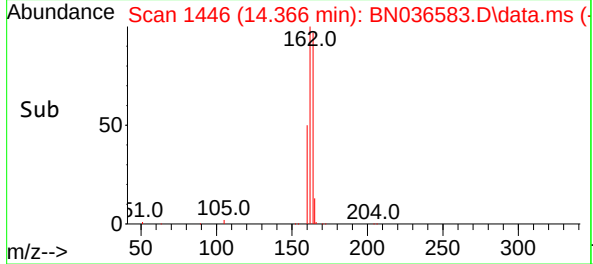
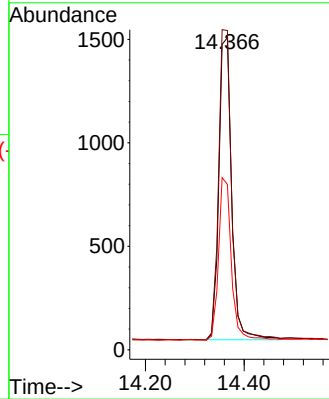
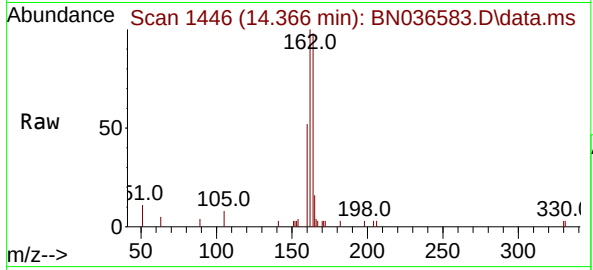




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

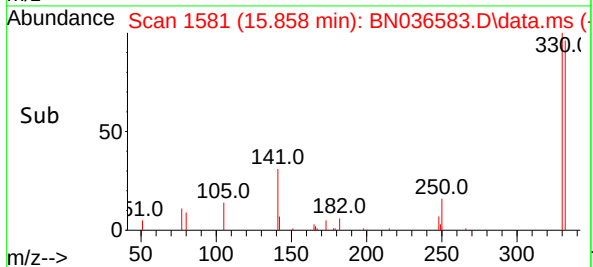
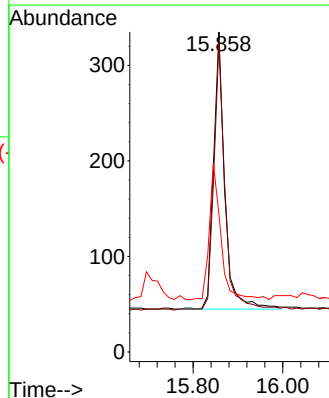
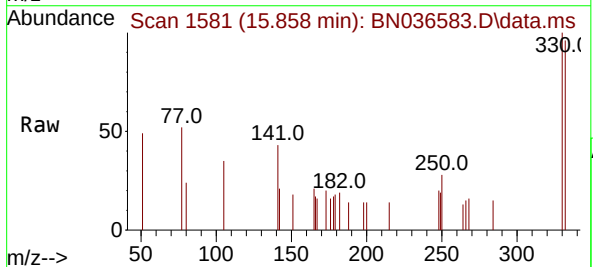
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

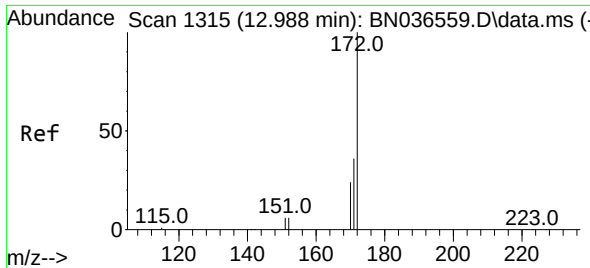
Tgt Ion:164 Resp: 2637
Ion Ratio Lower Upper
164 100
162 102.3 84.2 126.2
160 53.0 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.418 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion:330 Resp: 500
Ion Ratio Lower Upper
330 100
332 93.6 75.2 112.8
141 50.2 43.4 65.2

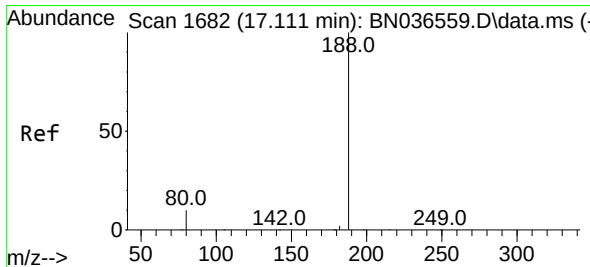
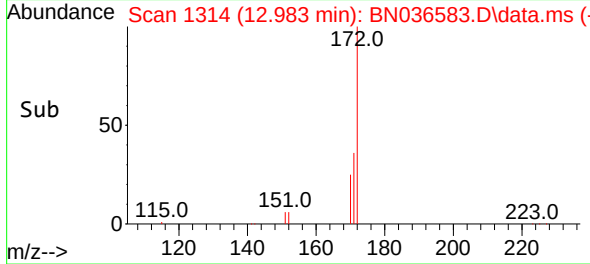
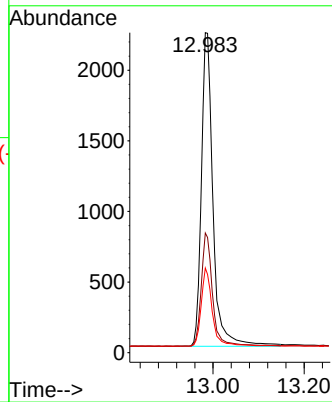
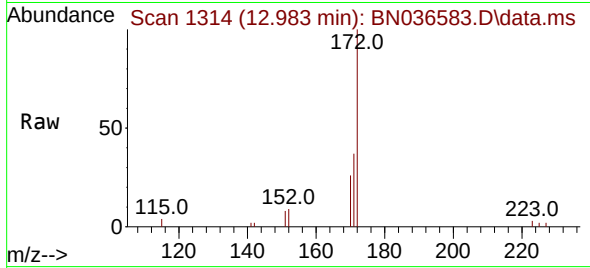




#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

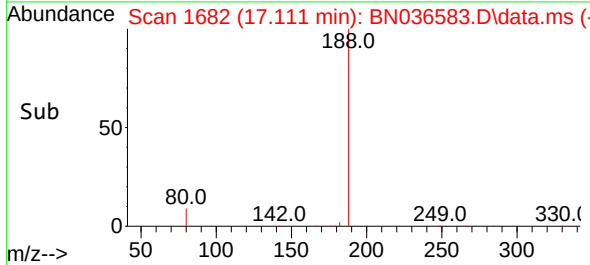
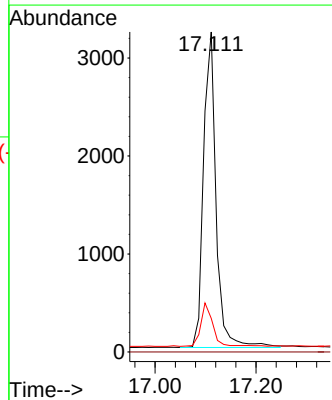
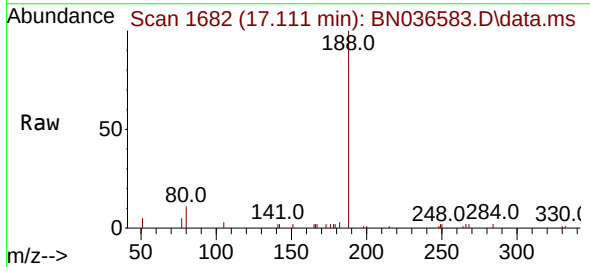
Instrument :
BNA_N
ClientSampleId :
RE108D2-20250306

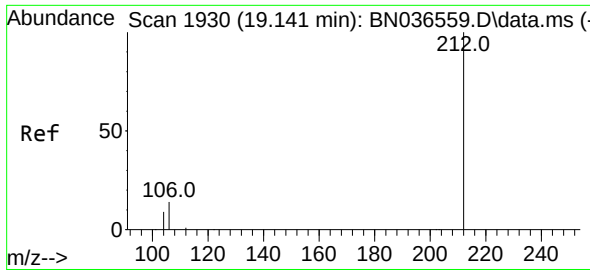
Tgt Ion:	172	Resp:	5552
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.5	44.3
170	26.4	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036583.D
Acq: 11 Mar 2025 16:09

Tgt Ion:	188	Resp:	5582
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.453 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036583.D

Acq: 11 Mar 2025 16:09

Instrument :

BNA_N

ClientSampleId :

RE108D2-20250306

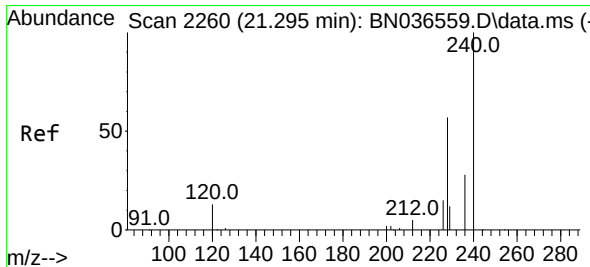
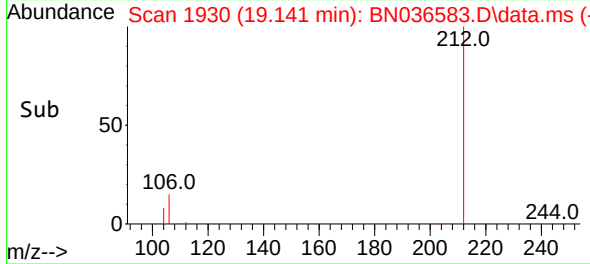
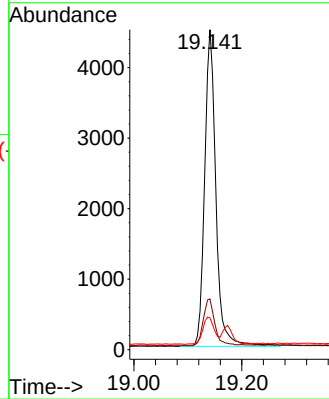
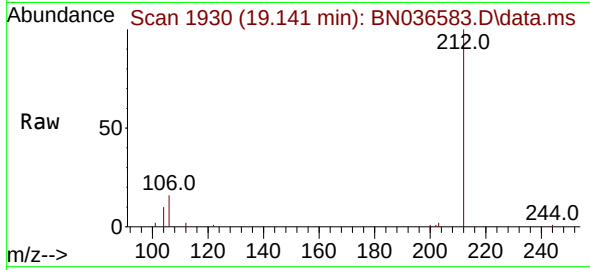
Tgt Ion:212 Resp: 6475

Ion Ratio Lower Upper

212 100

106 15.1 11.8 17.6

104 9.1 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036583.D

Acq: 11 Mar 2025 16:09

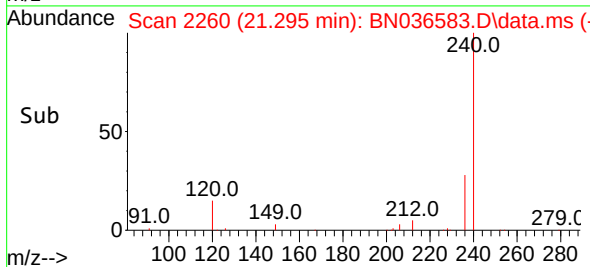
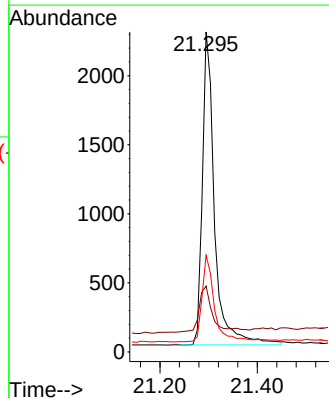
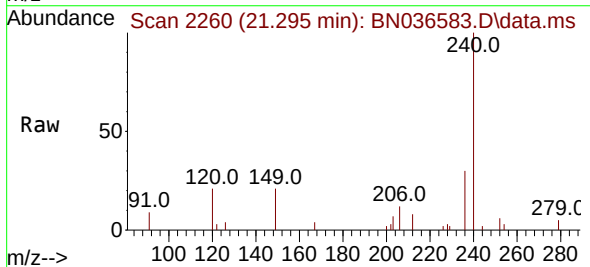
Tgt Ion:240 Resp: 3932

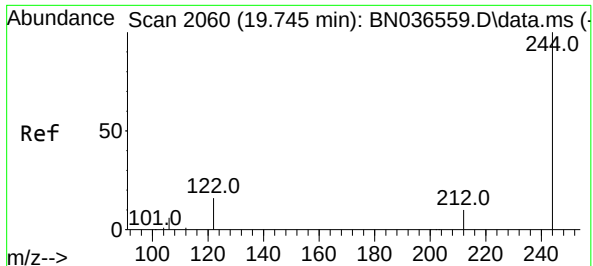
Ion Ratio Lower Upper

240 100

120 20.6 14.6 22.0

236 30.2 24.1 36.1

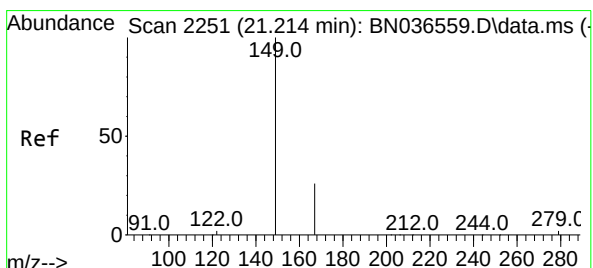
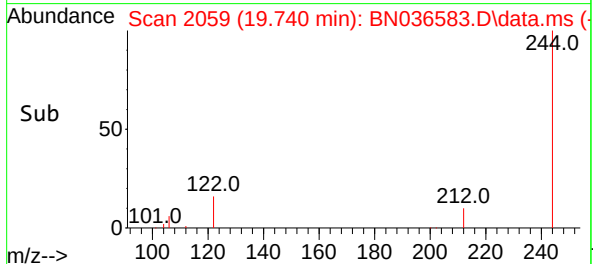
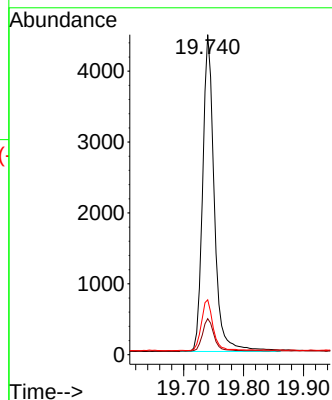
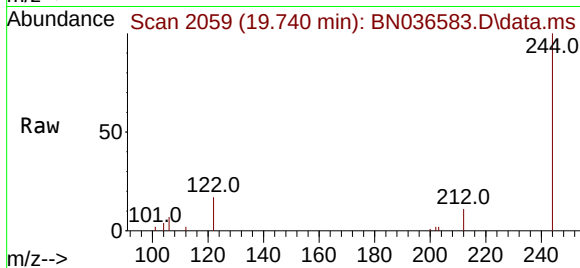




#31
 Terphenyl-d14
 Concen: 0.641 ng
 RT: 19.740 min Scan# 2060
 Delta R.T. -0.005 min
 Lab File: BN036583.D
 Acq: 11 Mar 2025 16:09

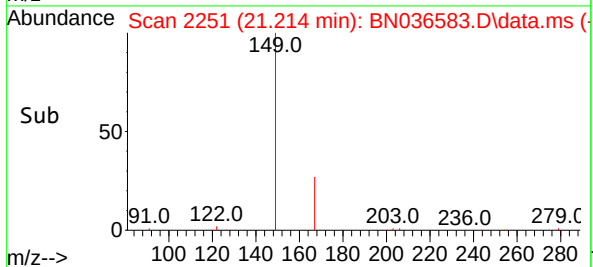
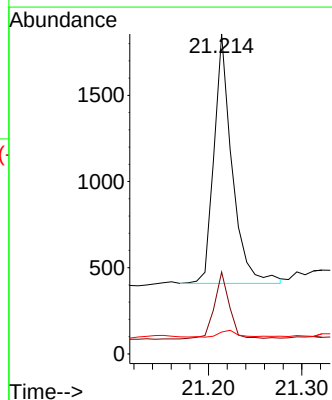
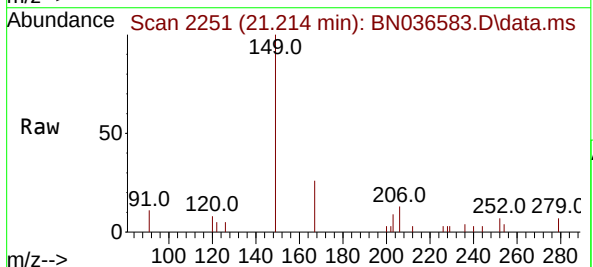
Instrument :
 BNA_N
 ClientSampleId :
 RE108D2-20250306

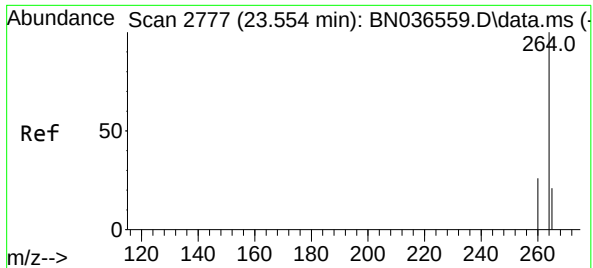
Tgt Ion:244 Resp: 6039
 Ion Ratio Lower Upper
 244 100
 212 11.3 9.6 14.4
 122 17.2 13.9 20.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.200 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN036583.D
 Acq: 11 Mar 2025 16:09

Tgt Ion:149 Resp: 1945
 Ion Ratio Lower Upper
 149 100
 167 22.3 20.7 31.1
 279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036583.D

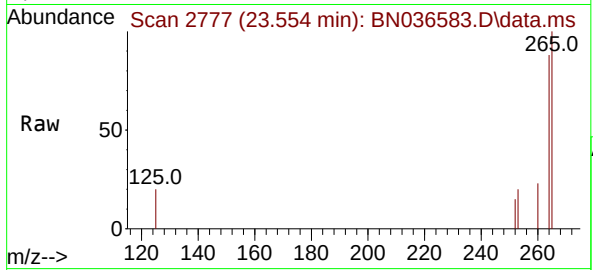
Acq: 11 Mar 2025 16:09

Instrument :

BNA_N

ClientSampleId :

RE108D2-20250306



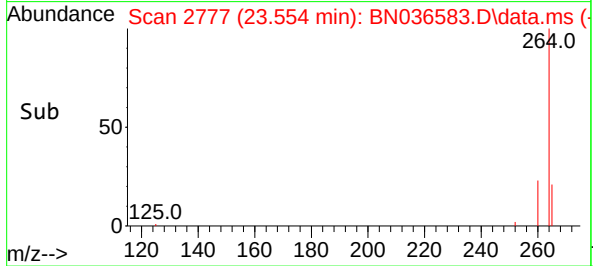
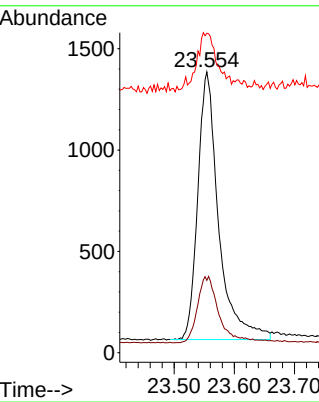
Tgt Ion:264 Resp: 3177

Ion	Ratio	Lower	Upper

264	100		

260	25.8	22.6	33.8

265	113.7	88.1	132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE108D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN036570.D	1	03/10/25 11:35	03/10/25 20:14	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2190	7.724				
1146-65-2	Naphthalene-d8	4780	10.519				
15067-26-2	Acenaphthene-d10	2790	14.366				
1517-22-2	Phenanthrene-d10	5260	17.111				
1719-03-5	Chrysene-d12	3740	21.304				
1520-96-3	Perylene-d12	3210	23.554				

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\BN031025\
Data File : BN036570.D
Acq On : 10 Mar 2025 20:14
Operator : RC/JU
Sample : Q1531-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

Quant Time: Mar 11 00:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

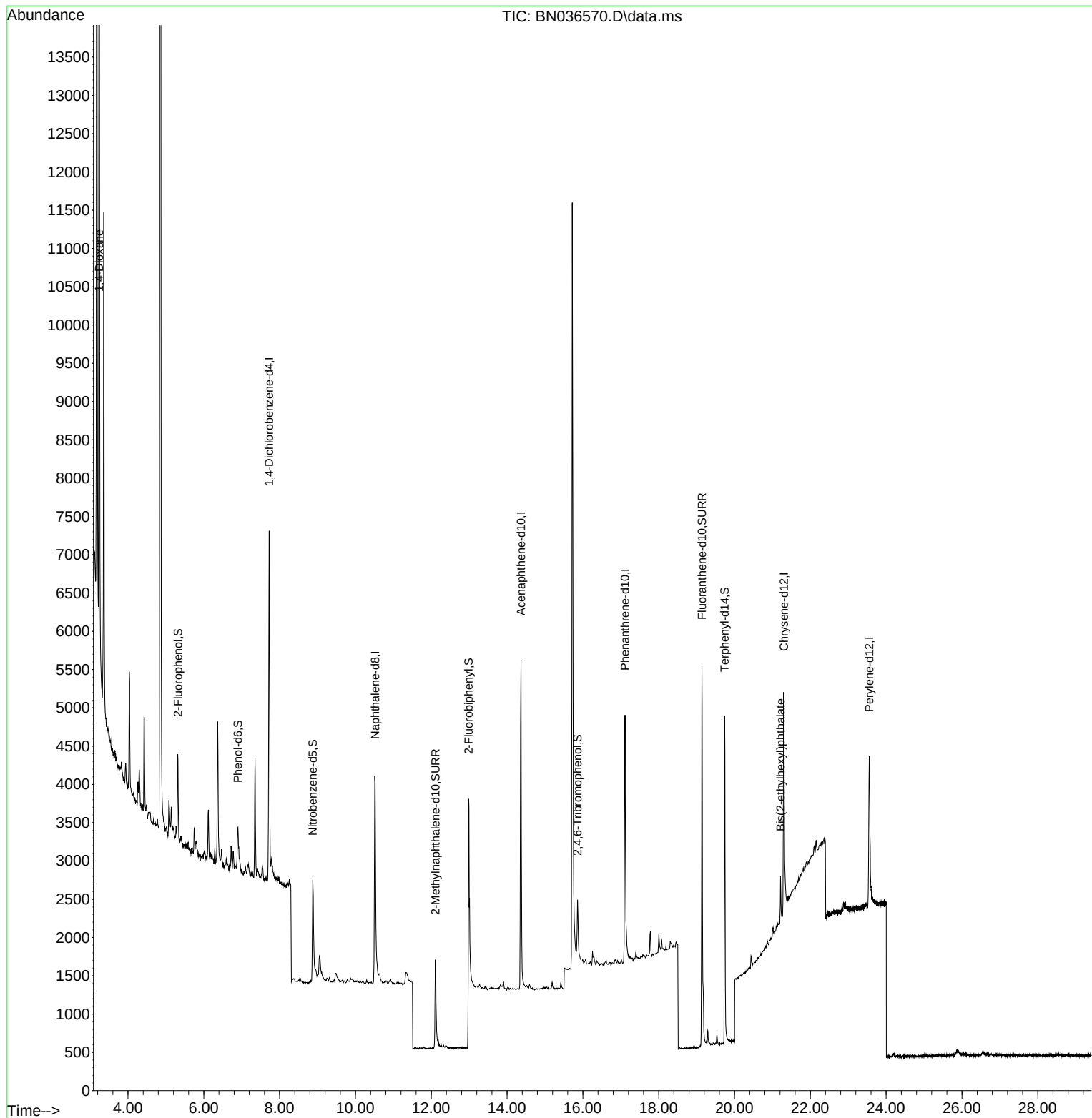
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2186	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4775	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2786	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5255	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3738	0.400	ng	0.00
35) Perylene-d12	23.554	264	3210	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	816	0.160	ng	0.00
5) Phenol-d6	6.901	99	537	0.085	ng	0.00
8) Nitrobenzene-d5	8.875	82	1559	0.300	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	2206	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	530	0.419	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5281	0.326	ng	0.00
27) Fluoranthene-d10	19.141	212	6016	0.447	ng	0.00
31) Terphenyl-d14	19.740	244	4398	0.491	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	7891	3.254	ng	96
34) Bis(2-ethylhexyl)phtha...	21.214	149	620	0.067	ng	# 96

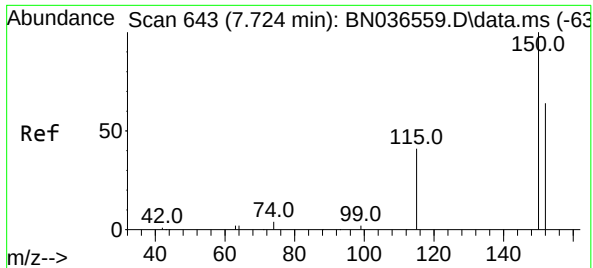
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036570.D
Acq On : 10 Mar 2025 20:14
Operator : RC/JU
Sample : Q1531-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

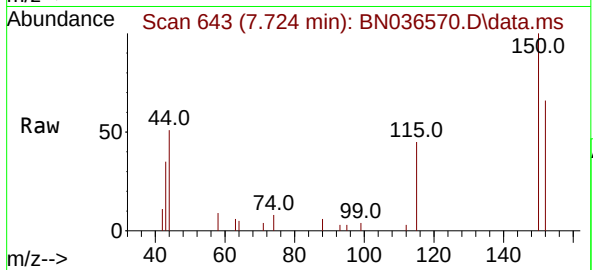
Quant Time: Mar 11 00:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



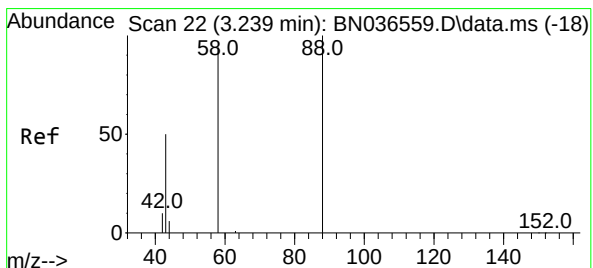
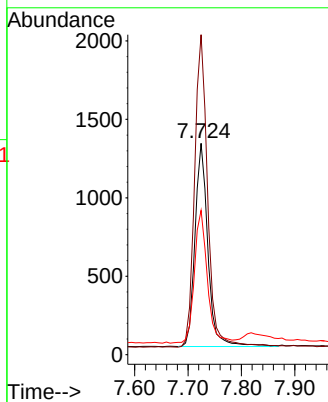
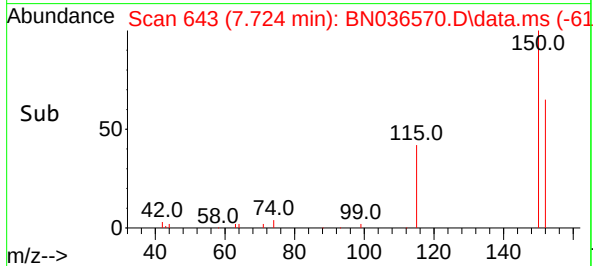


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

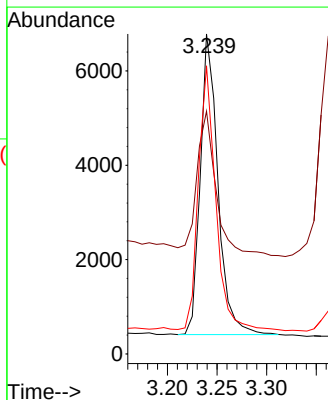
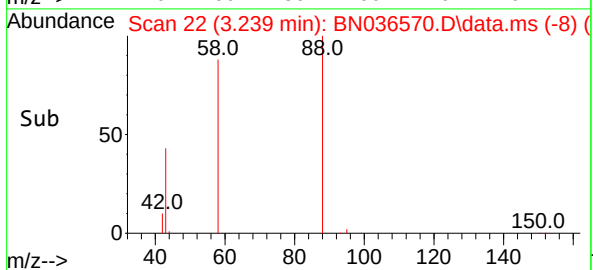
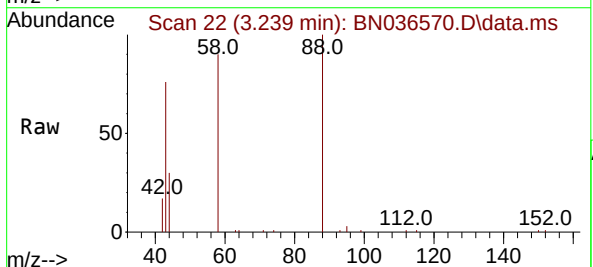


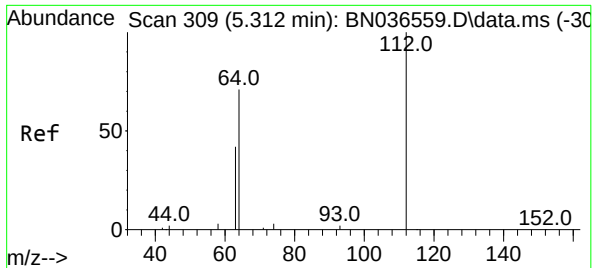
Tgt Ion:152 Resp: 2186
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 68.2 54.3 81.5



#2
1,4-Dioxane
Concen: 3.254 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion: 88 Resp: 7891
Ion Ratio Lower Upper
88 100
43 52.3 37.8 56.8
58 85.6 67.4 101.2

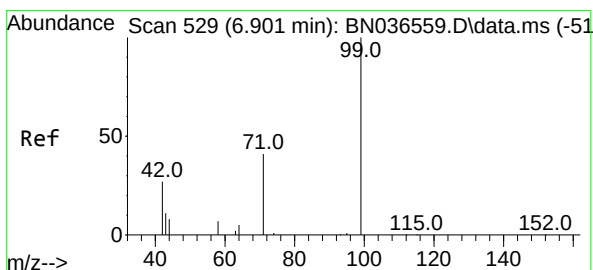
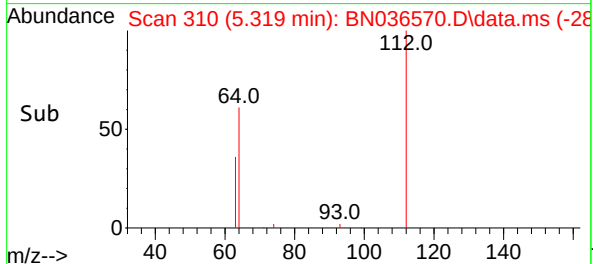
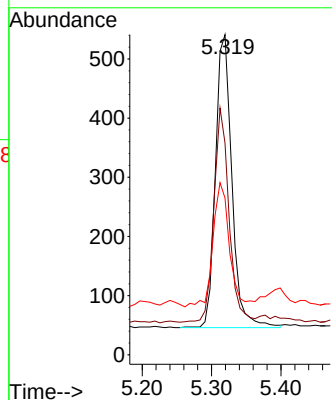
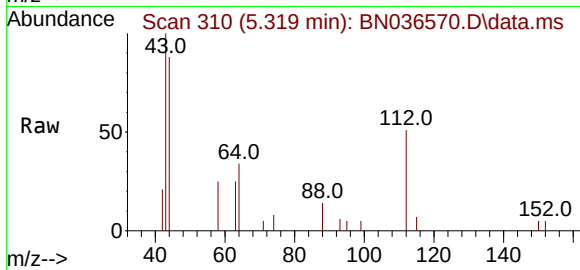




#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

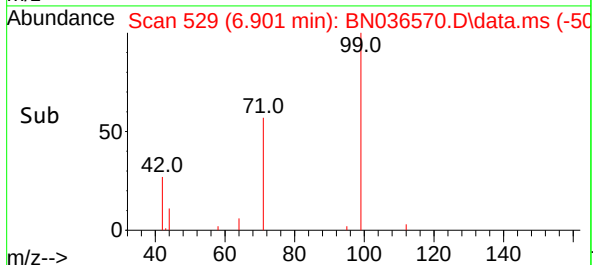
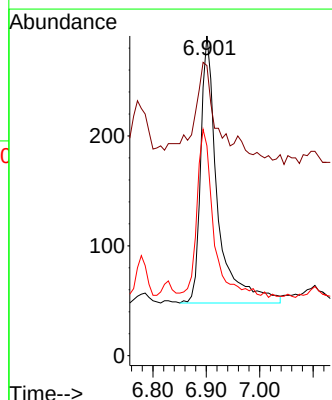
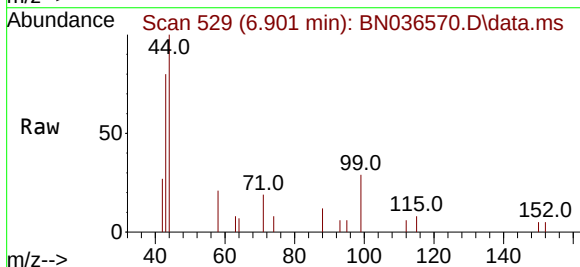
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

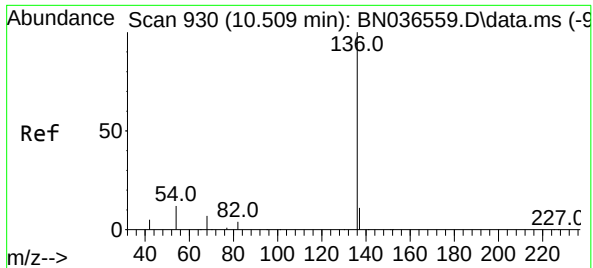
Tgt Ion	112	Resp	816
Ion Ratio	100		
Lower			
Upper			
64	67.4	53.1	79.7
63	41.7	31.8	47.8



#5
Phenol-d6
Concen: 0.085 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion	99	Resp	537
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
42	33.9	26.5	39.7
71	60.9	34.1	51.1

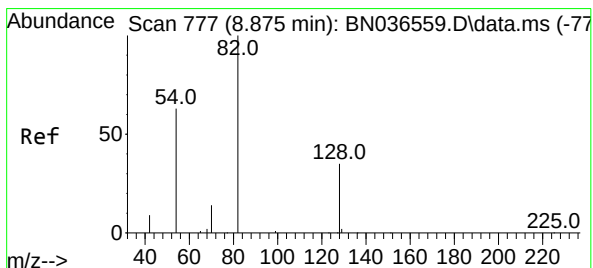
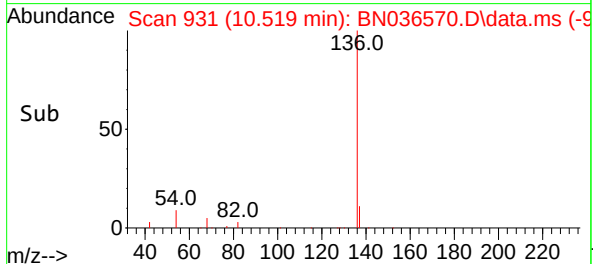
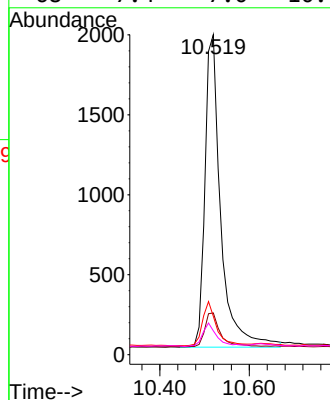
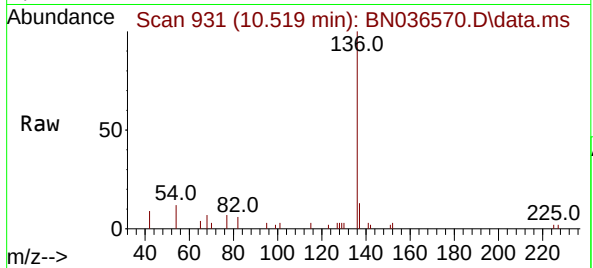




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

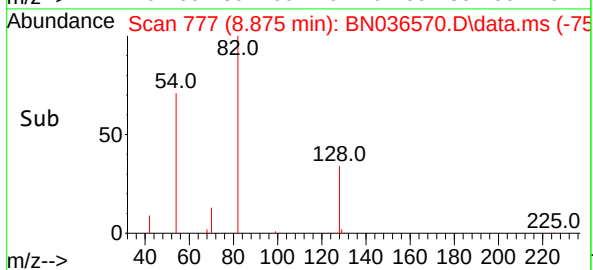
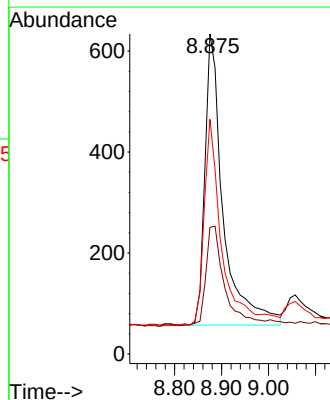
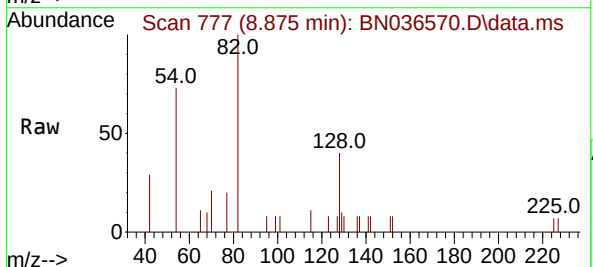
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

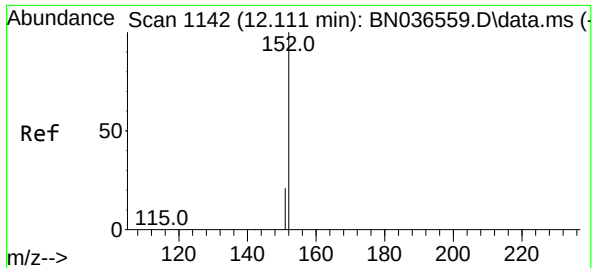
Tgt Ion:	136	Resp:	4775
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	12.0	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.300 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion:	82	Resp:	1559
Ion	Ratio	Lower	Upper
82	100		
128	39.6	30.6	45.8
54	73.3	52.2	78.4

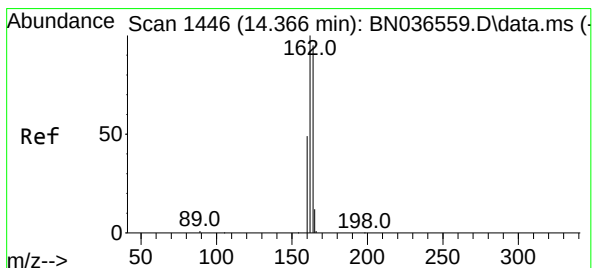
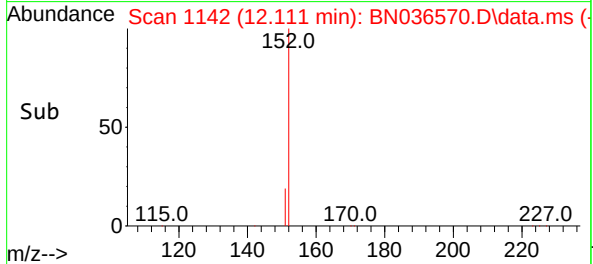
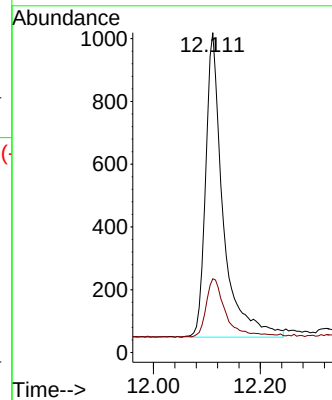
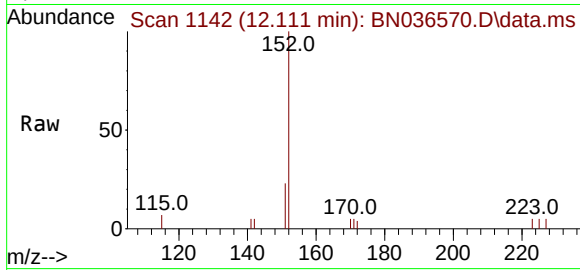




#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

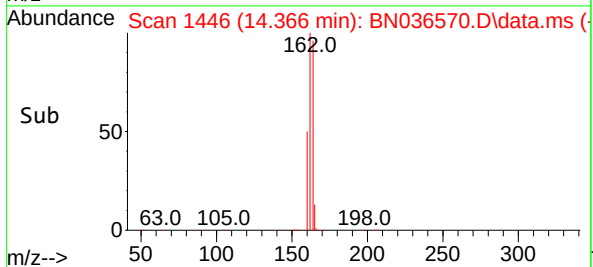
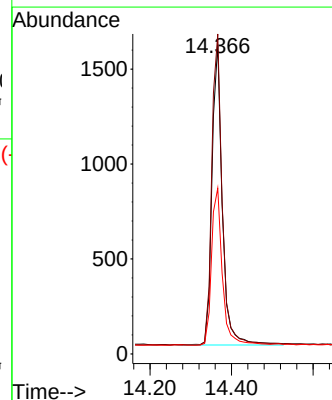
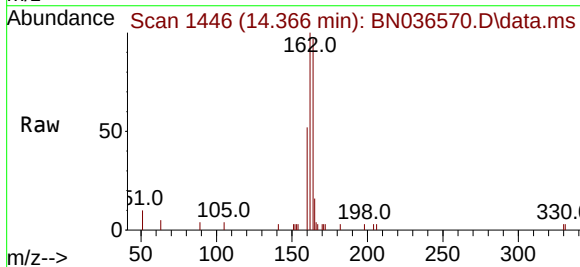
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

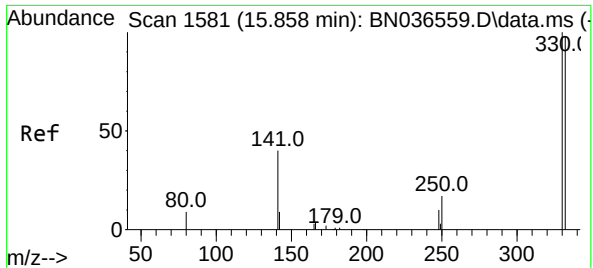
Tgt Ion:152 Resp: 2206
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion:164 Resp: 2786
Ion Ratio Lower Upper
164 100
162 103.4 84.2 126.2
160 53.6 42.2 63.2

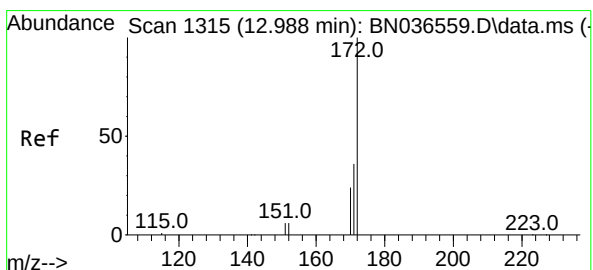
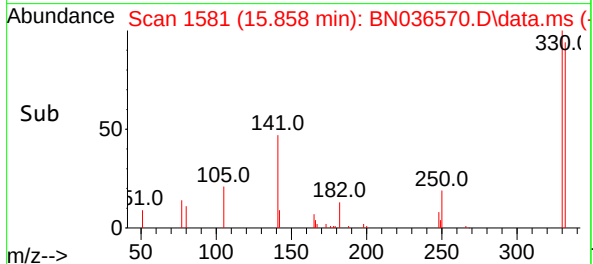
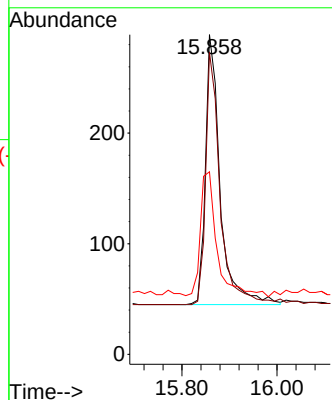
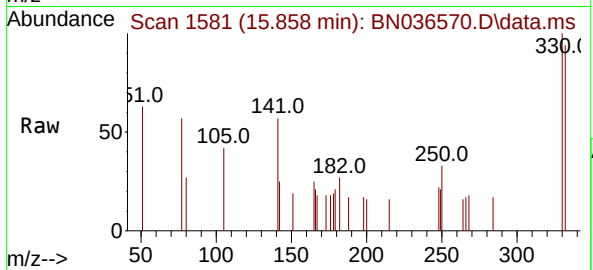




#14
2,4,6-Tribromophenol
Concen: 0.419 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

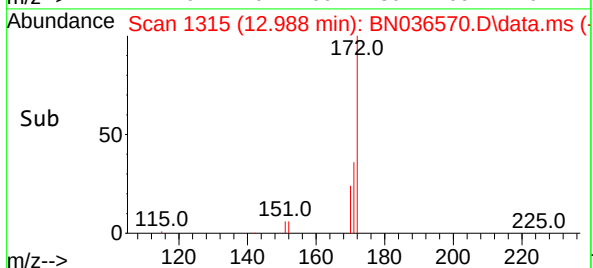
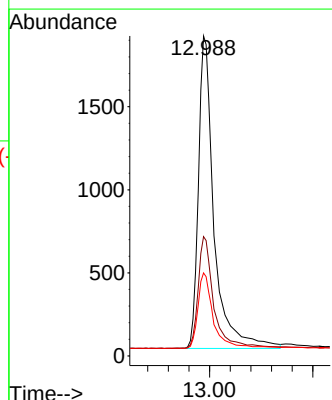
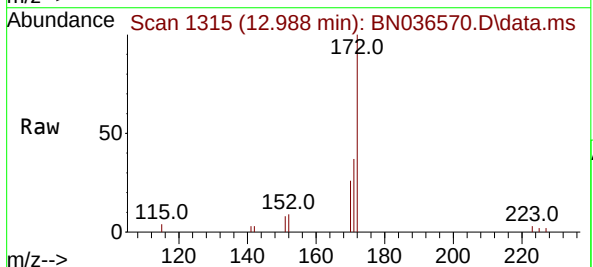
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

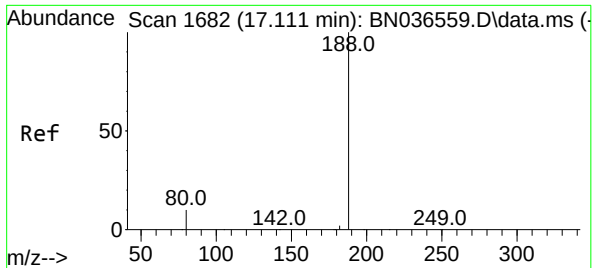
Tgt Ion	330	Resp	530
Ion Ratio	100		
Lower	75.2		
Upper	112.8		



#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion	172	Resp	5281
Ion Ratio	100		
Lower	29.5		
Upper	44.3		





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036570.D

Acq: 10 Mar 2025 20:14

Instrument :

BNA_N

ClientSampleId :

RE108D1-20250306

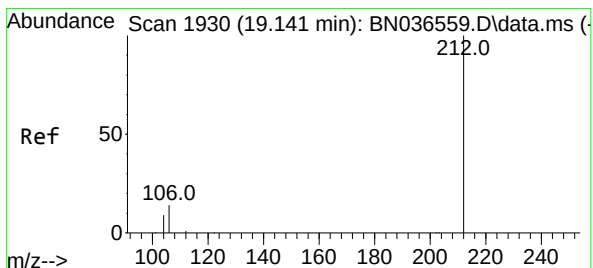
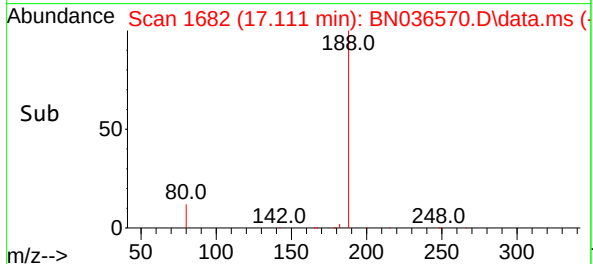
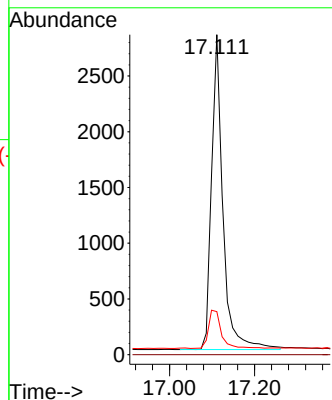
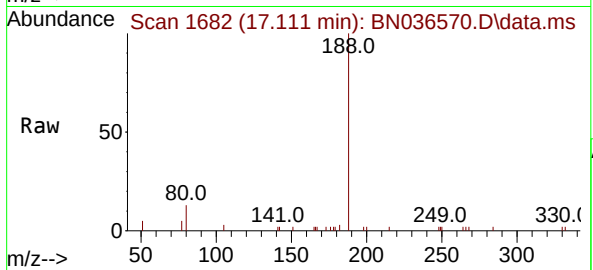
Tgt Ion:188 Resp: 5255

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.5 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.447 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036570.D

Acq: 10 Mar 2025 20:14

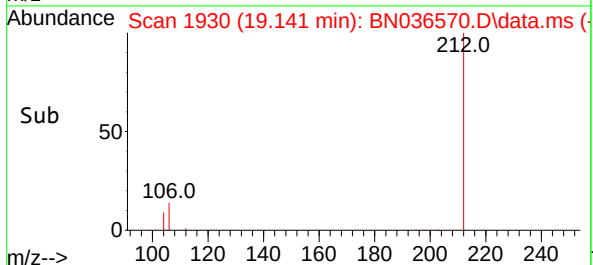
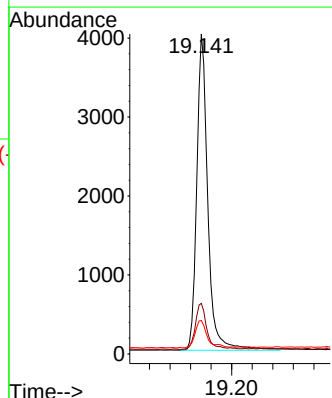
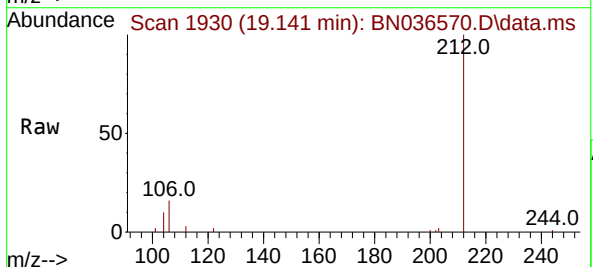
Tgt Ion:212 Resp: 6016

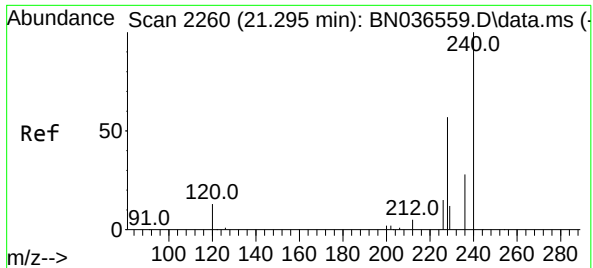
Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

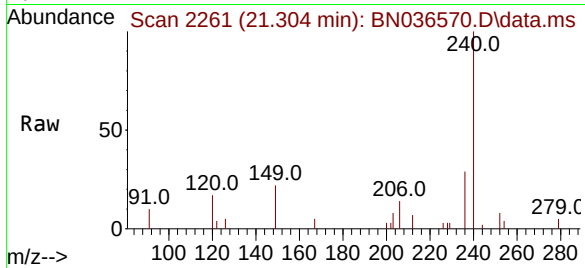
104 9.7 7.3 10.9



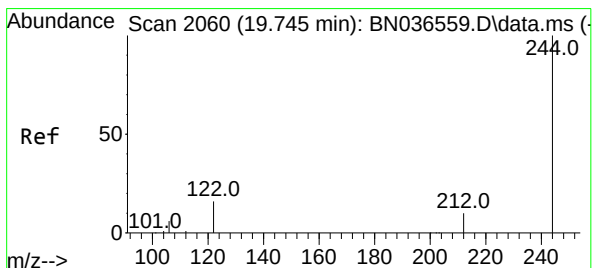
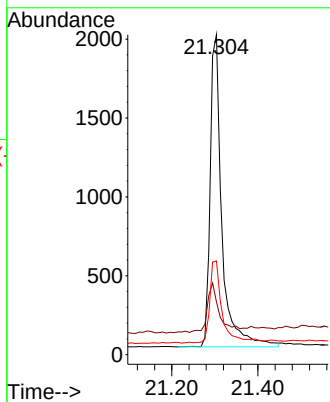
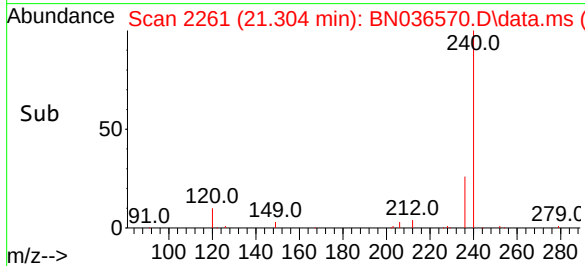


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

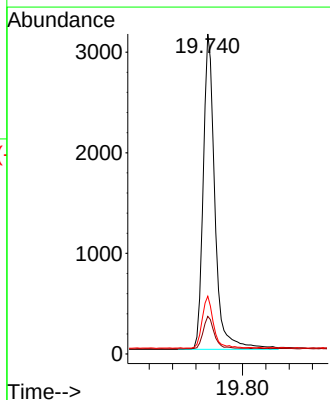
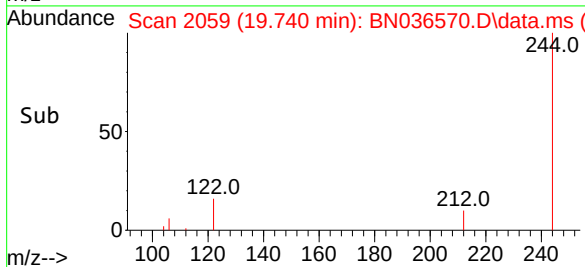
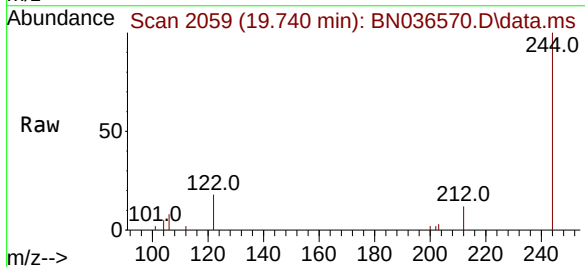


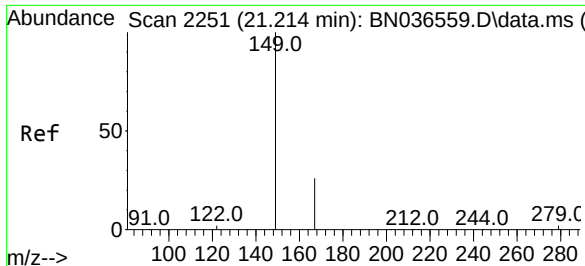
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	29.3	24.1	36.1



#31
Terphenyl-d14
Concen: 0.491 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	18.0	13.9	20.9

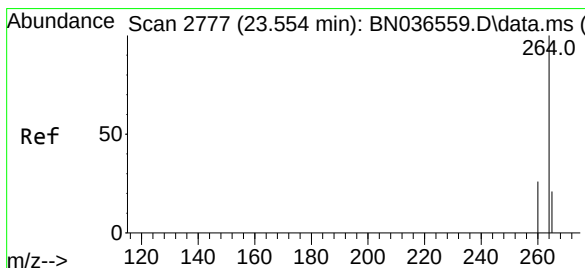
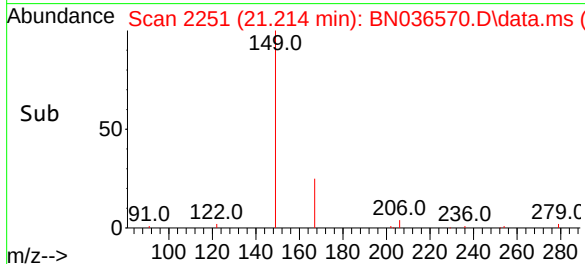
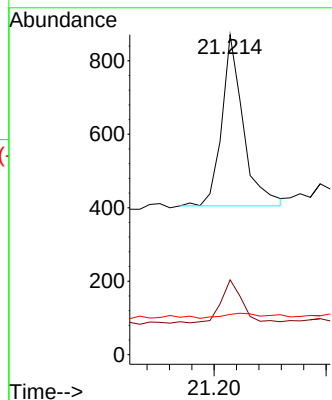
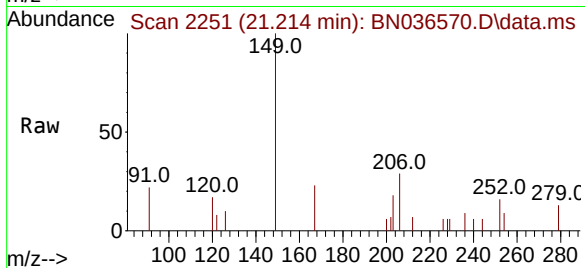




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 21.214 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

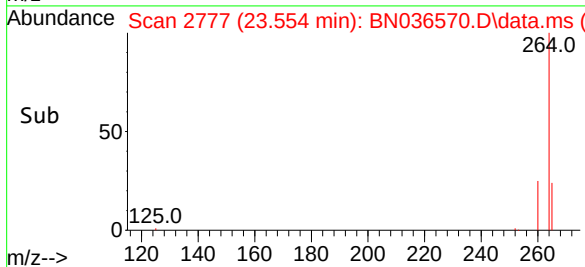
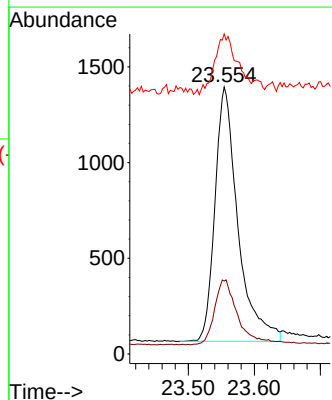
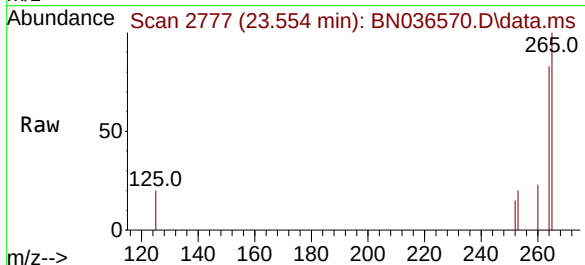
Instrument :
BNA_N
ClientSampleId :
RE108D1-20250306

Tgt Ion:149 Resp: 620
Ion Ratio Lower Upper
149 100
167 24.2 20.7 31.1
279 6.5 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036570.D
Acq: 10 Mar 2025 20:14

Tgt Ion:264 Resp: 3210
Ion Ratio Lower Upper
264 100
260 27.3 22.6 33.8
265 119.9 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE105D1-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-14	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
BN036571.D	1	03/10/25 11:35	03/10/25 20:50	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.80		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	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.724				
1146-65-2	Naphthalene-d8	4600	10.52				
15067-26-2	Acenaphthene-d10	2830	14.366				
1517-22-2	Phenanthrene-d10	5730	17.111				
1719-03-5	Chrysene-d12	3950	21.295				
1520-96-3	Perylene-d12	3260	23.554				

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\BN031025\
Data File : BN036571.D
Acq On : 10 Mar 2025 20:50
Operator : RC/JU
Sample : Q1531-14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

Quant Time: Mar 11 00:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

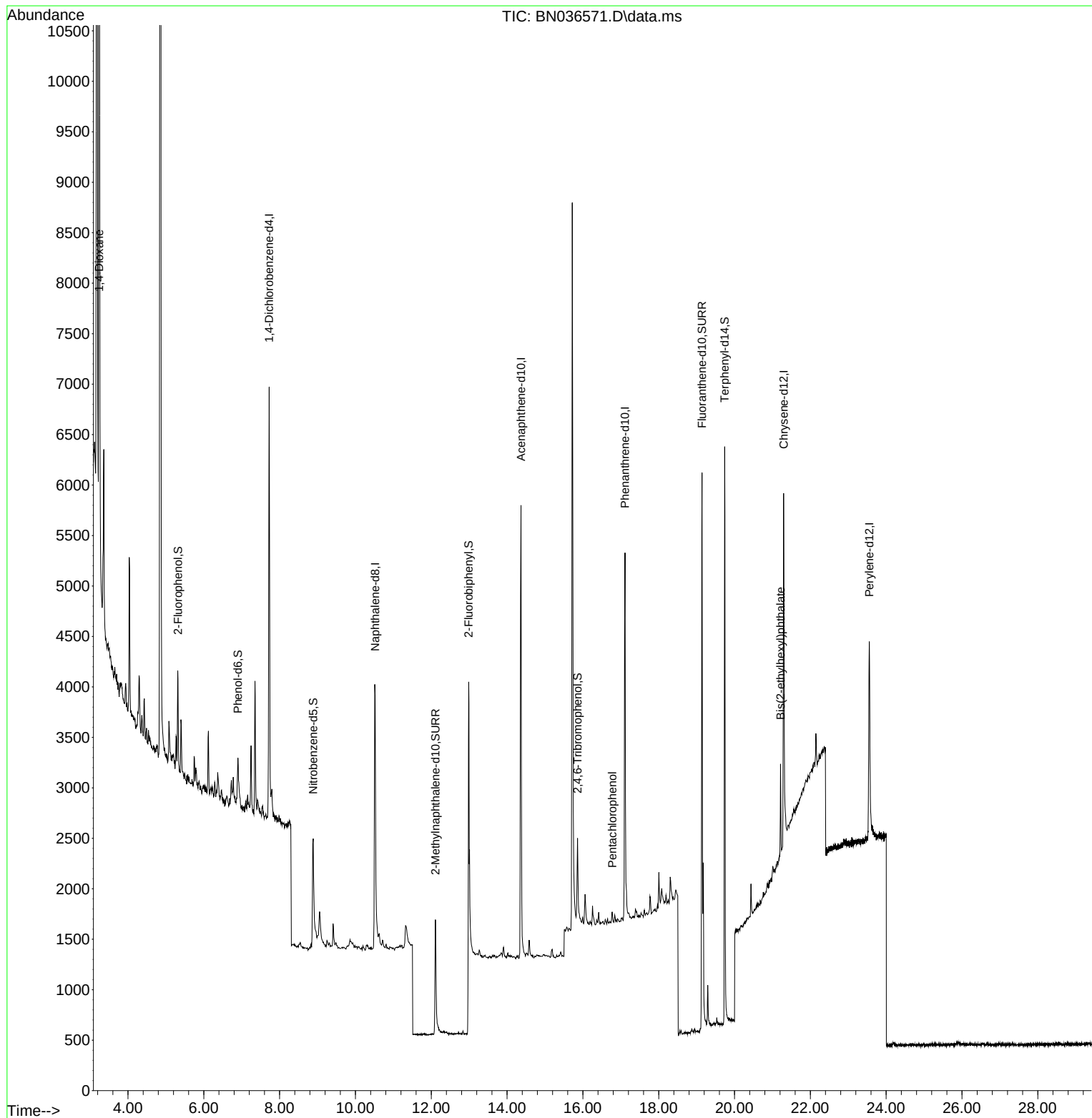
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2032	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4598	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2832	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5726	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3951	0.400	ng	0.00
35) Perylene-d12	23.554	264	3259	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	716	0.151	ng	0.00
5) Phenol-d6	6.901	99	491	0.084	ng	0.00
8) Nitrobenzene-d5	8.886	82	1417	0.283	ng	0.01
11) 2-Methylnaphthalene-d10	12.111	152	2173	0.318	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	524	0.408	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5511	0.335	ng	0.00
27) Fluoranthene-d10	19.141	212	6485	0.442	ng	0.00
31) Terphenyl-d14	19.740	244	5863	0.619	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	10456	4.639	ng	97
24) Pentachlorophenol	16.776	266	80	0.041	ng	89
34) Bis(2-ethylhexyl)phtha...	21.214	149	994	0.102	ng	95

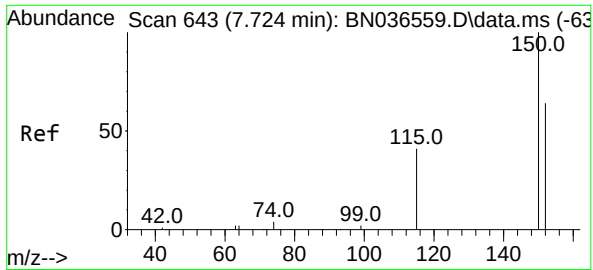
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036571.D
Acq On : 10 Mar 2025 20:50
Operator : RC/JU
Sample : Q1531-14
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

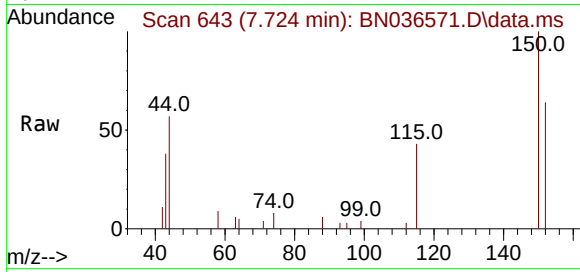
Quant Time: Mar 11 00:53:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



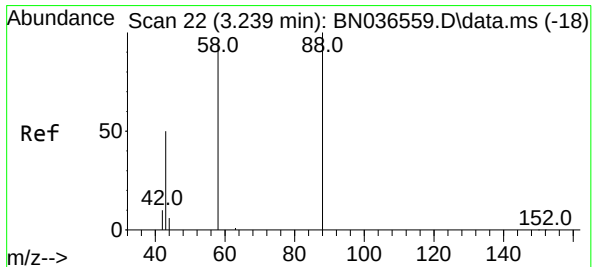
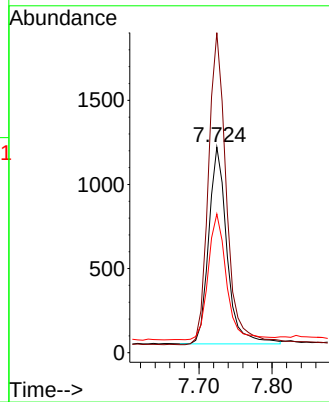
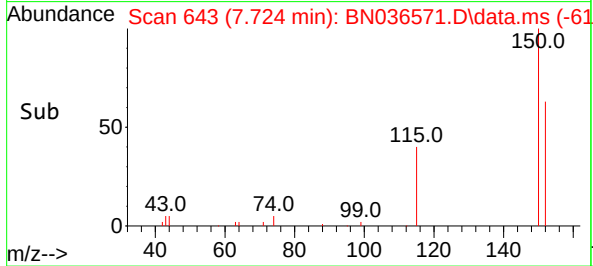


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

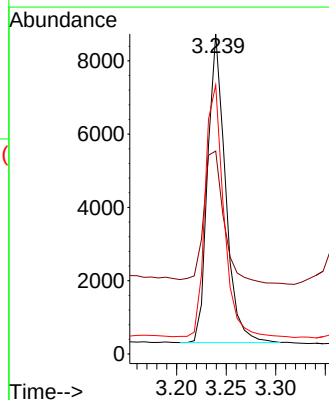
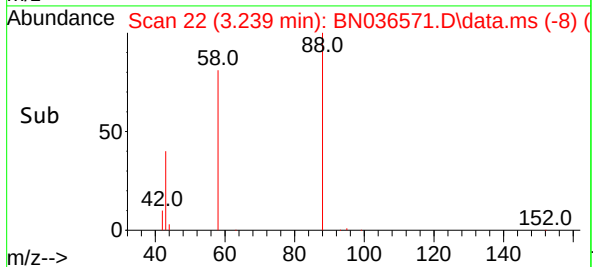
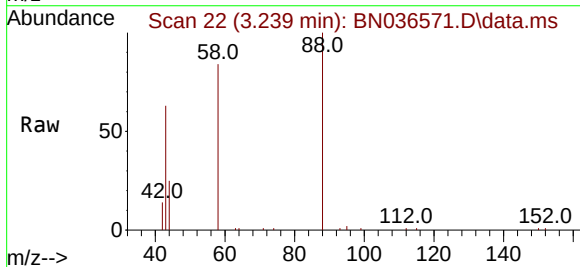


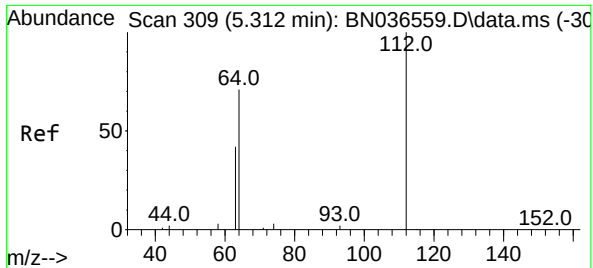
Tgt Ion:152 Resp: 2032
Ion Ratio Lower Upper
152 100
150 155.6 123.7 185.5
115 67.5 54.3 81.5



#2
1,4-Dioxane
Concen: 4.639 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion: 88 Resp: 10456
Ion Ratio Lower Upper
88 100
43 50.2 37.8 56.8
58 85.8 67.4 101.2

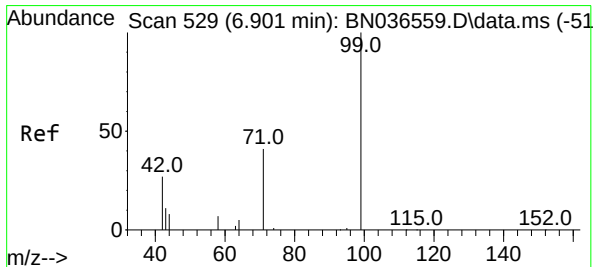
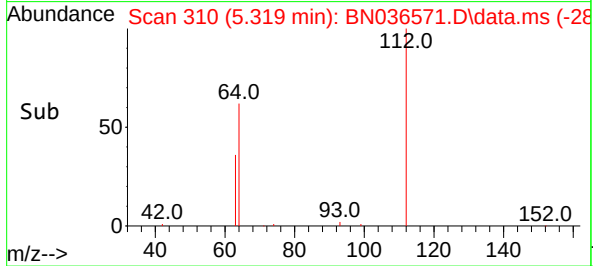
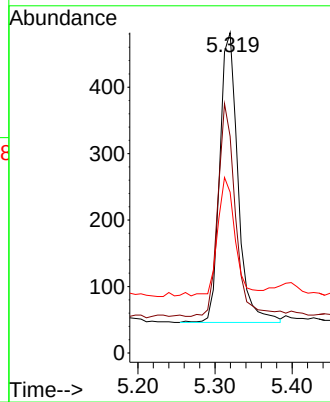
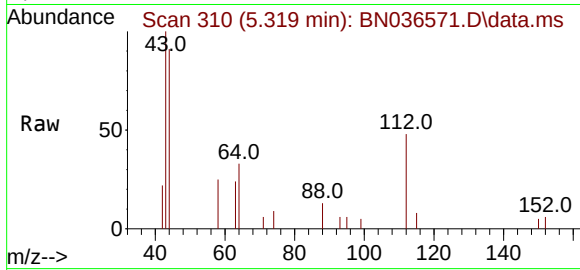




#4
2-Fluorophenol
Concen: 0.151 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

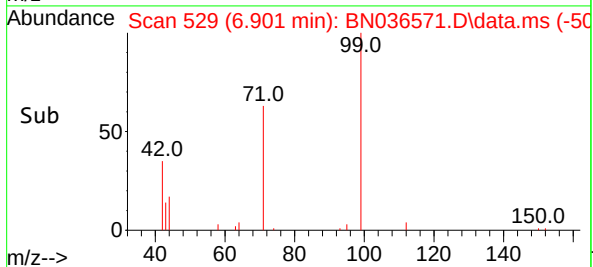
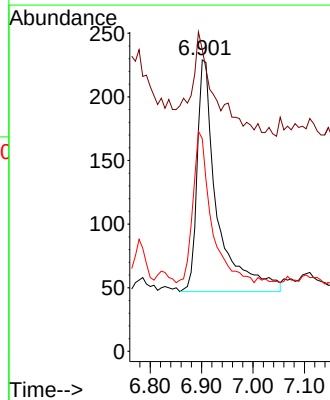
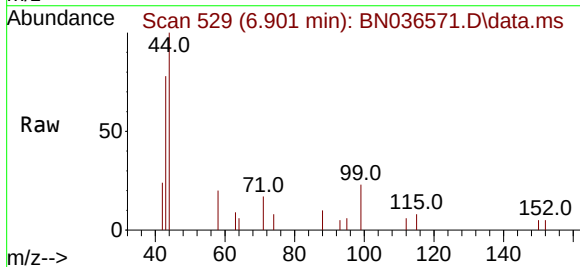
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

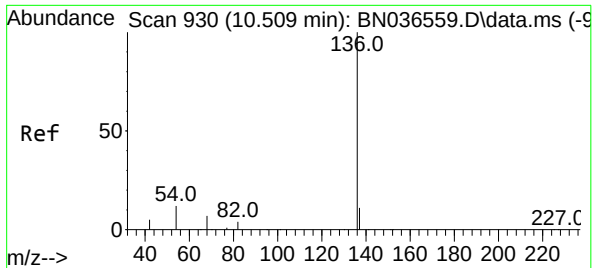
Tgt Ion: 112 Resp: 716
Ion Ratio Lower Upper
112 100
64 70.8 53.1 79.7
63 37.6 31.8 47.8



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion: 99 Resp: 491
Ion Ratio Lower Upper
99 100
42 48.9 26.5 39.7#
71 59.7 34.1 51.1#

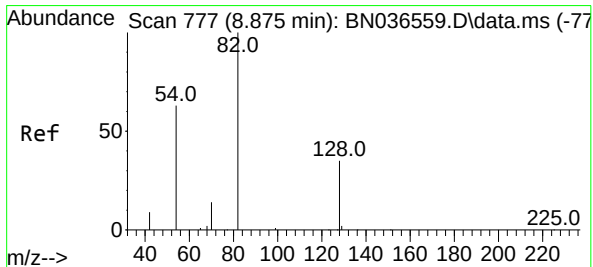
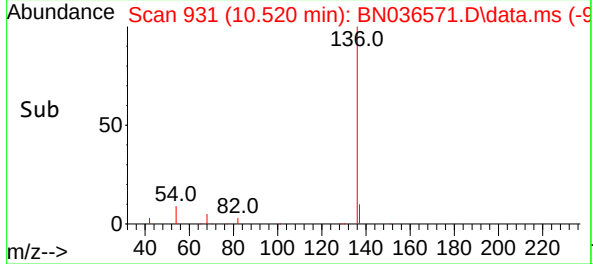
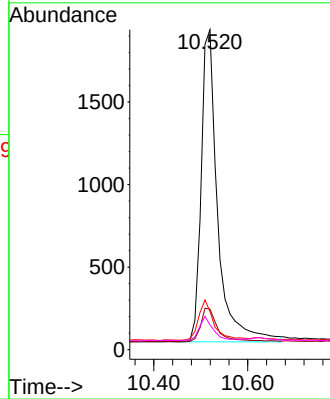
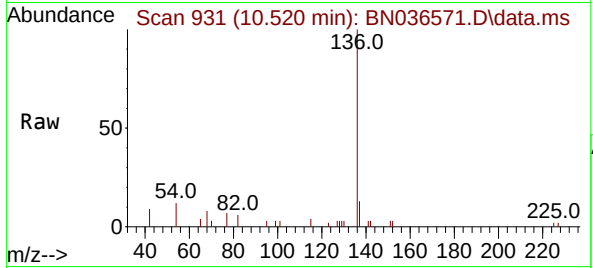




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

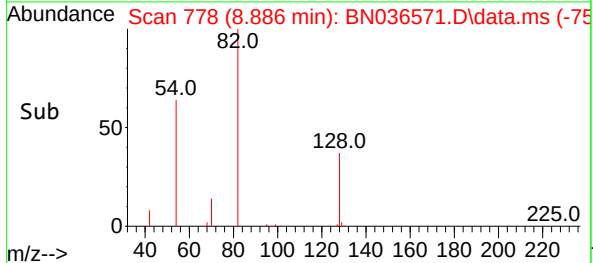
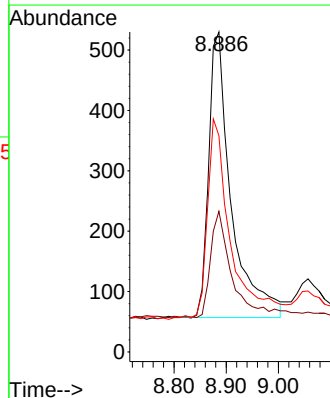
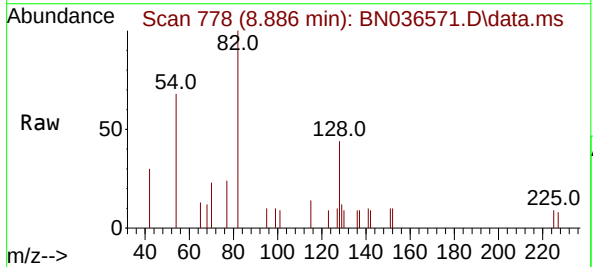
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

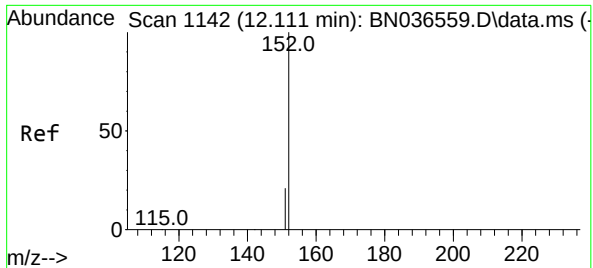
Tgt Ion:	136	Resp:	4598
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	12.0	11.5	17.3
68	7.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.283 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion:	82	Resp:	1417
Ion	Ratio	Lower	Upper
82	100		
128	44.0	30.6	45.8
54	67.5	52.2	78.4

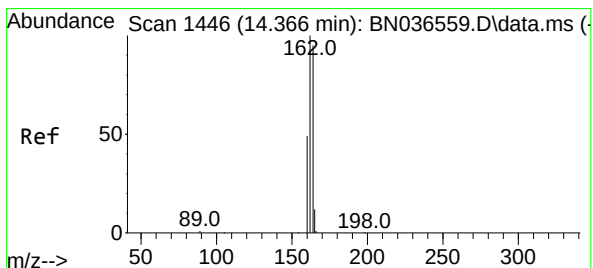
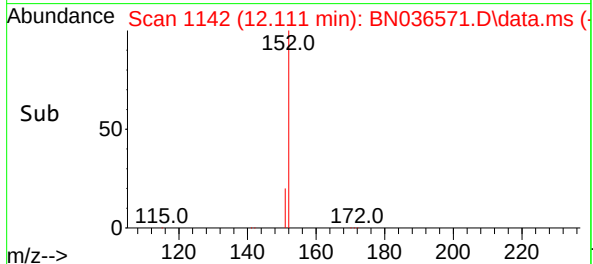
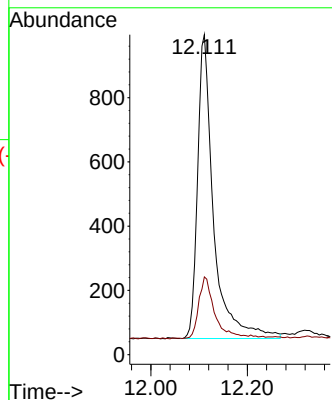
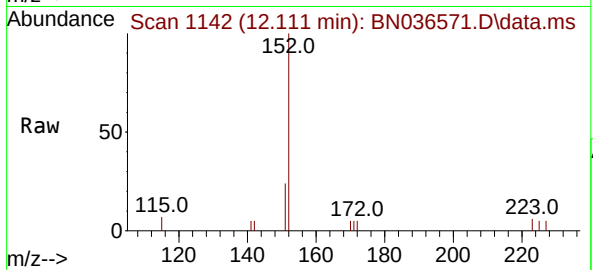




#11
2-Methylnaphthalene-d10
Concen: 0.318 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

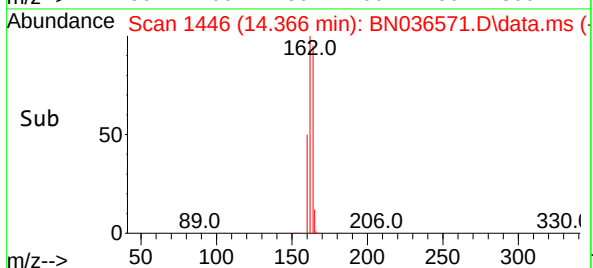
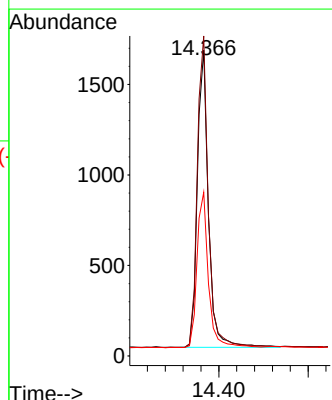
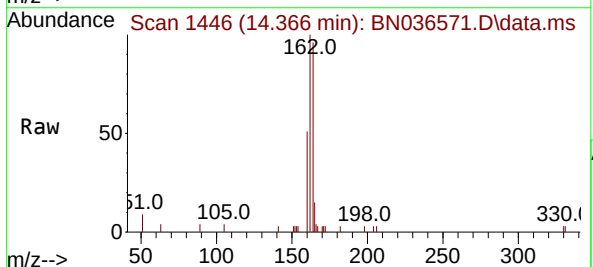
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

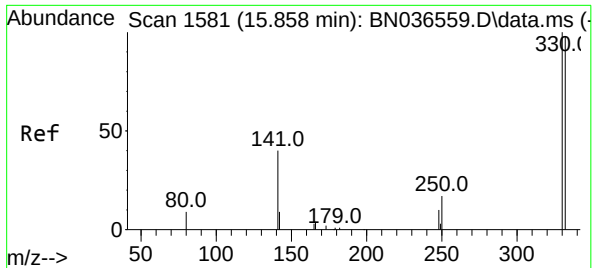
Tgt Ion:152 Resp: 2173
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion:164 Resp: 2832
Ion Ratio Lower Upper
164 100
162 104.7 84.2 126.2
160 53.5 42.2 63.2

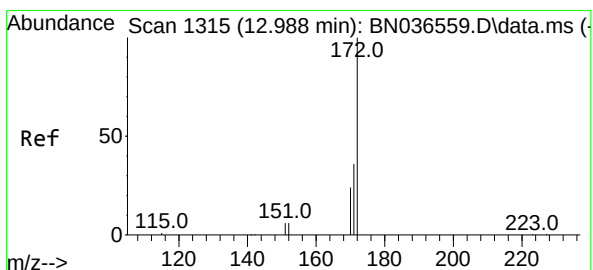
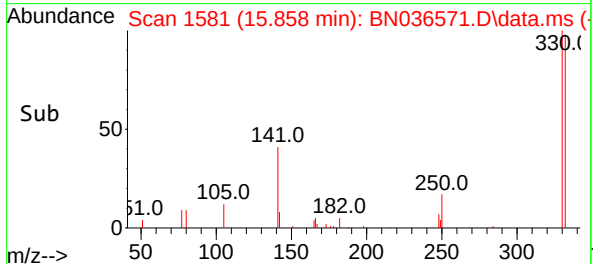
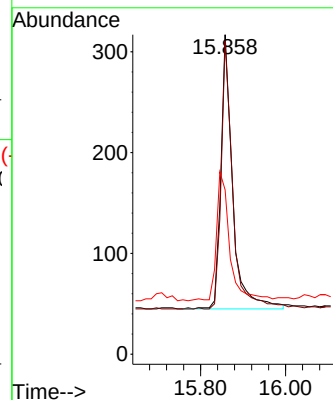
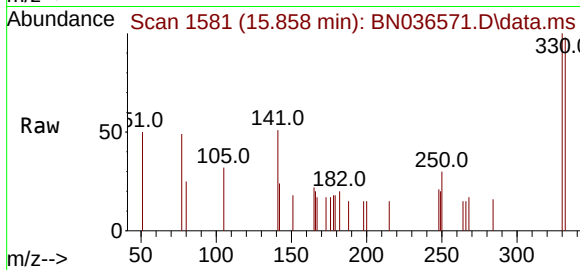




#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

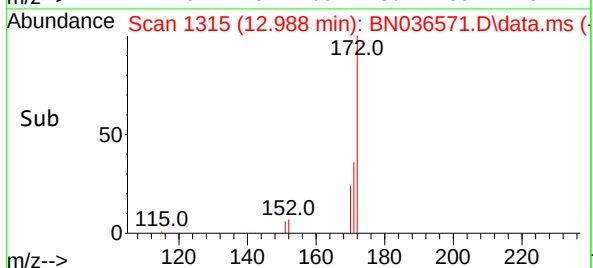
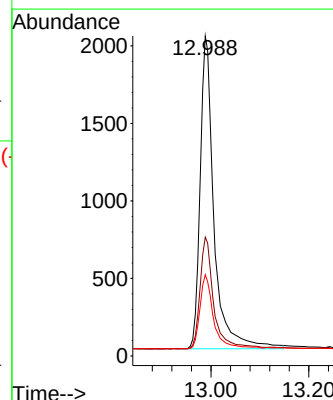
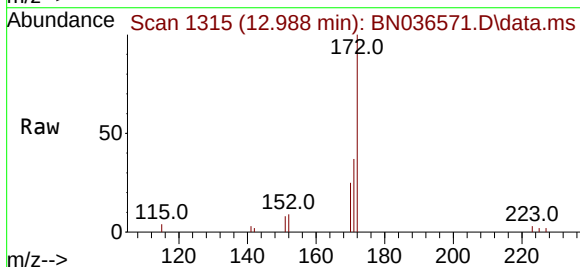
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

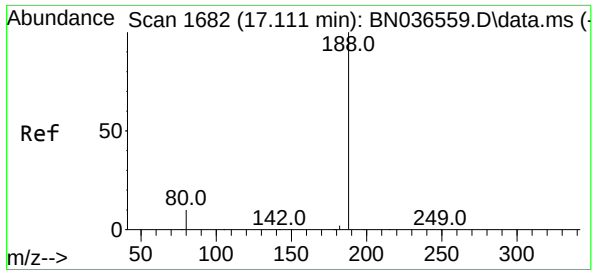
Tgt Ion	330	Resp	524
Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.2	112.8
141	52.7	43.4	65.2



#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion	172	Resp	5511
Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.4	20.2	30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036571.D

Acq: 10 Mar 2025 20:50

Instrument :

BNA_N

ClientSampleId :

RE105D1-20250306

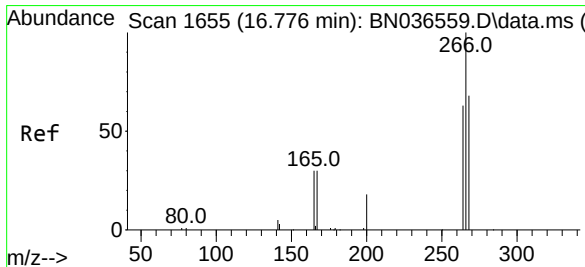
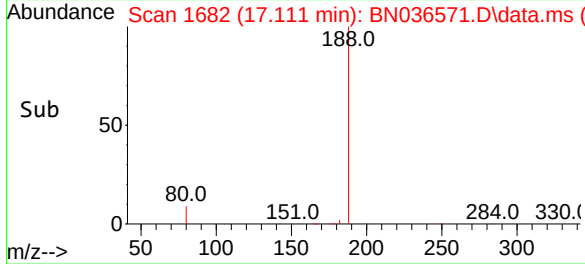
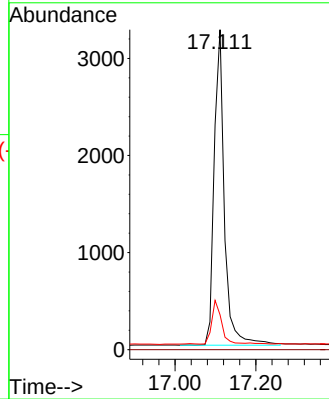
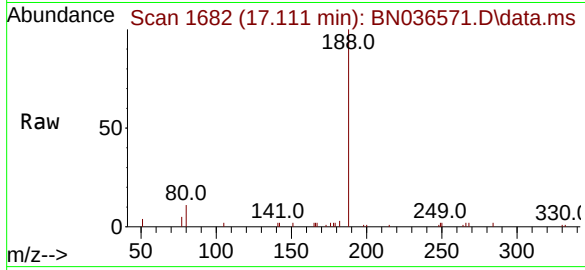
Tgt Ion:188 Resp: 5726

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 8.8 13.2



#24

Pentachlorophenol

Concen: 0.041 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036571.D

Acq: 10 Mar 2025 20:50

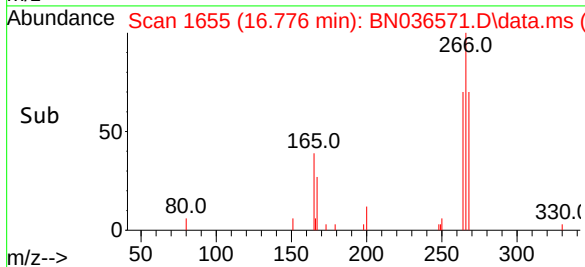
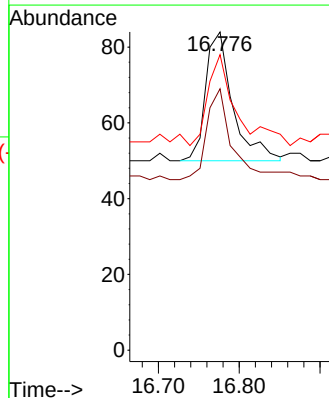
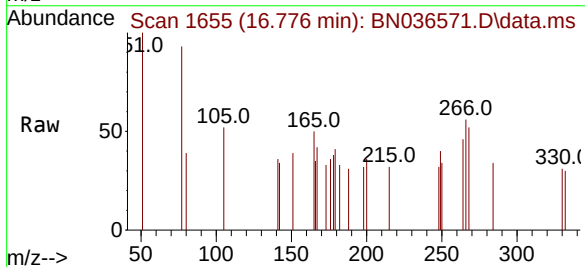
Tgt Ion:266 Resp: 80

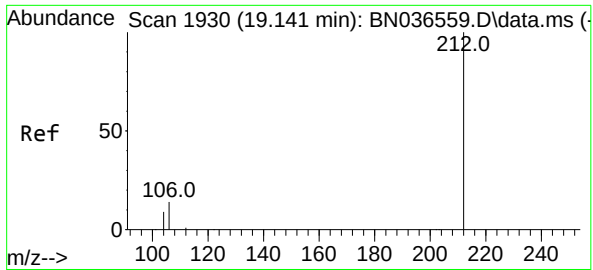
Ion Ratio Lower Upper

266 100

264 70.0 49.6 74.4

268 72.5 50.9 76.3





#27

Fluoranthene-d10

Concen: 0.442 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036571.D

Acq: 10 Mar 2025 20:50

Instrument :

BNA_N

ClientSampleId :

RE105D1-20250306

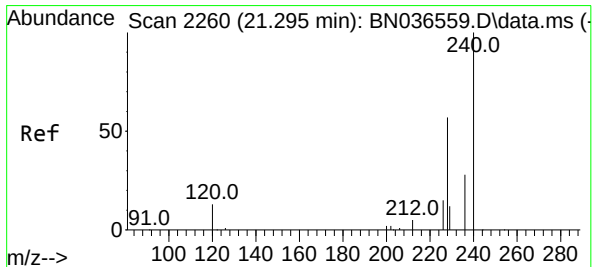
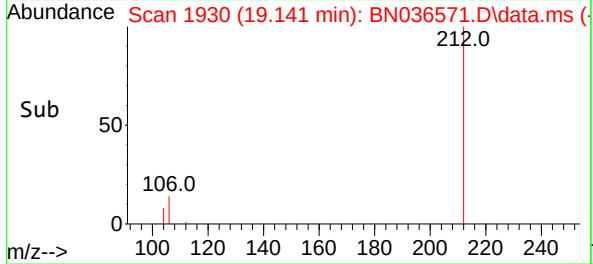
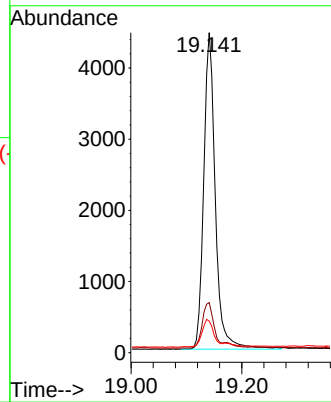
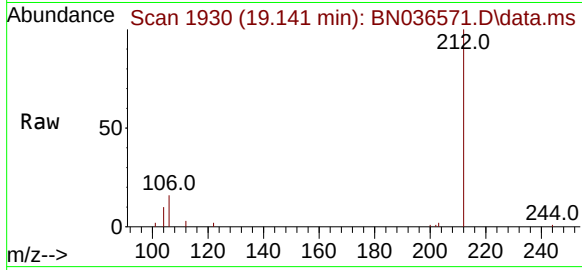
Tgt Ion:212 Resp: 6485

Ion Ratio Lower Upper

212 100

106 15.8 11.8 17.6

104 8.8 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036571.D

Acq: 10 Mar 2025 20:50

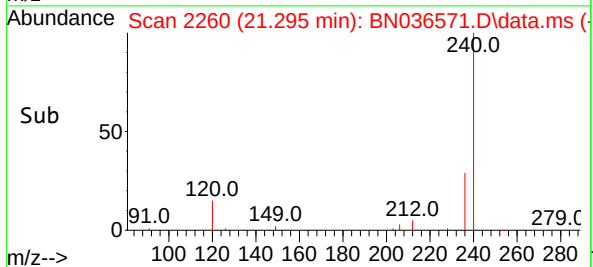
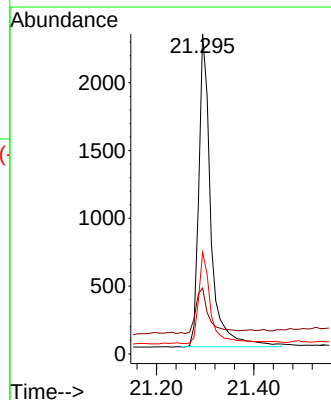
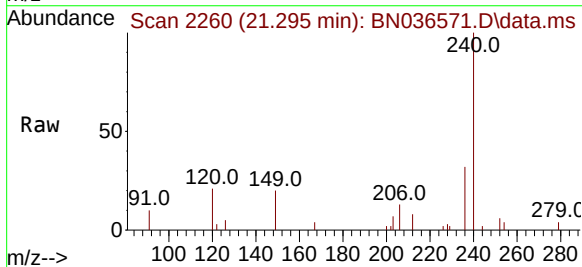
Tgt Ion:240 Resp: 3951

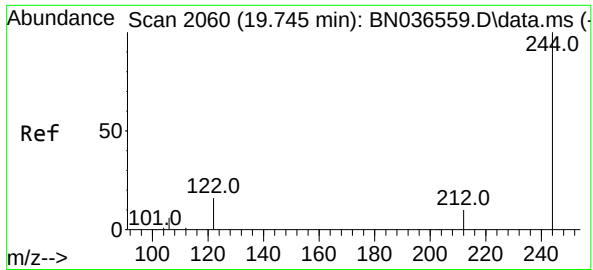
Ion Ratio Lower Upper

240 100

120 20.6 14.6 22.0

236 31.8 24.1 36.1

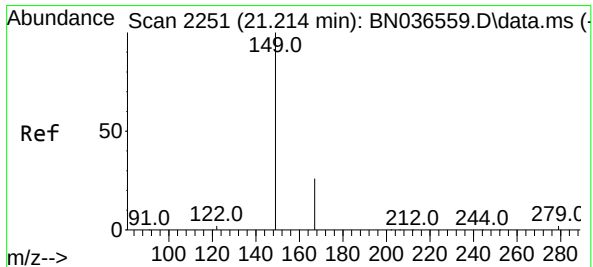
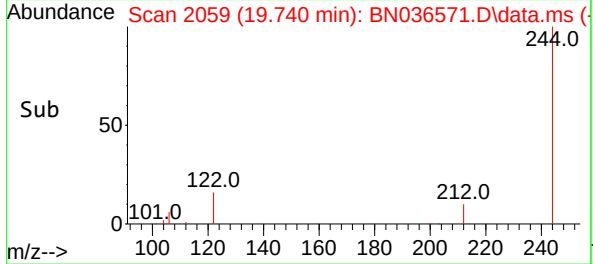
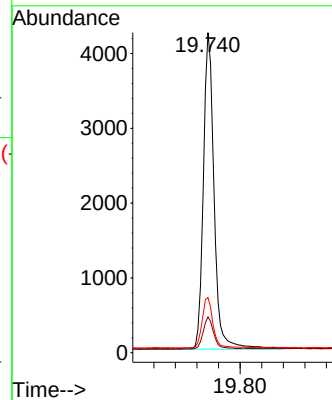
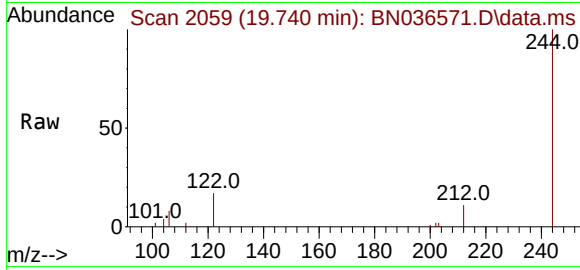




#31
Terphenyl-d14
Concen: 0.619 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

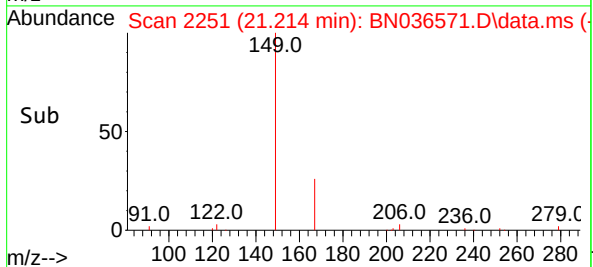
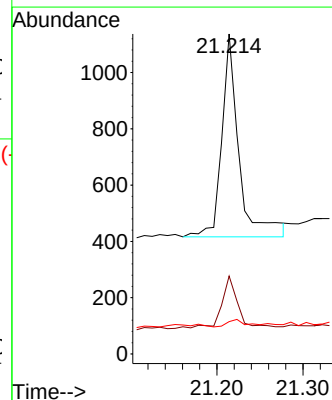
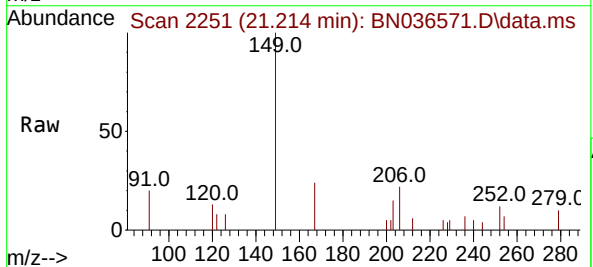
Instrument :
BNA_N
ClientSampleId :
RE105D1-20250306

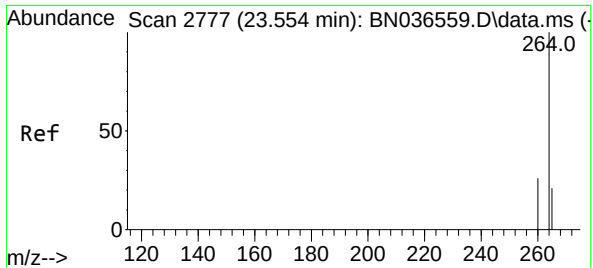
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.6	14.4
122	17.3	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.102 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036571.D
Acq: 10 Mar 2025 20:50

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.0	20.7	31.1
279	4.1	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036571.D

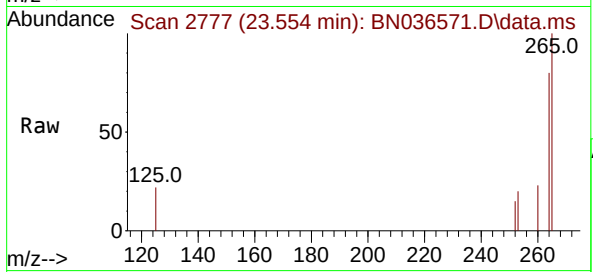
Acq: 10 Mar 2025 20:50

Instrument :

BNA_N

ClientSampleId :

RE105D1-20250306



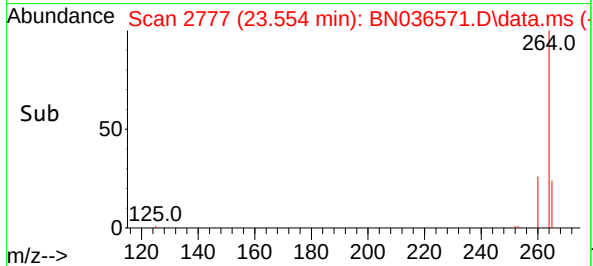
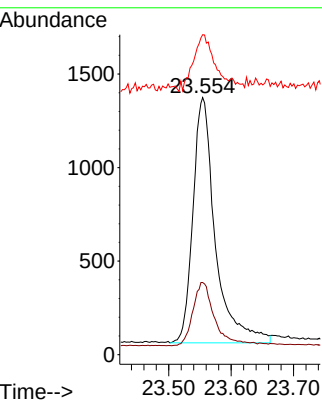
Tgt Ion:264 Resp: 3259

Ion	Ratio	Lower	Upper

264	100		

260	28.1	22.6	33.8

265	124.5	88.1	132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE105D2-20250306	SDG No.:	Q1531
Lab Sample ID:	Q1531-15	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
BN036584.D	1	03/10/25 11:35	03/11/25 16:44	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.60	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.79	*	58 - 132		197%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1950		7.724			
1146-65-2	Naphthalene-d8	4550		10.509			
15067-26-2	Acenaphthene-d10	2780		14.366			
1517-22-2	Phenanthrene-d10	5690		17.111			
1719-03-5	Chrysene-d12	3980		21.295			
1520-96-3	Perylene-d12	3120		23.554			

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\BN031125\
Data File : BN036584.D
Acq On : 11 Mar 2025 16:44
Operator : RC/JU
Sample : Q1531-15
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

Quant Time: Mar 11 17:07:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

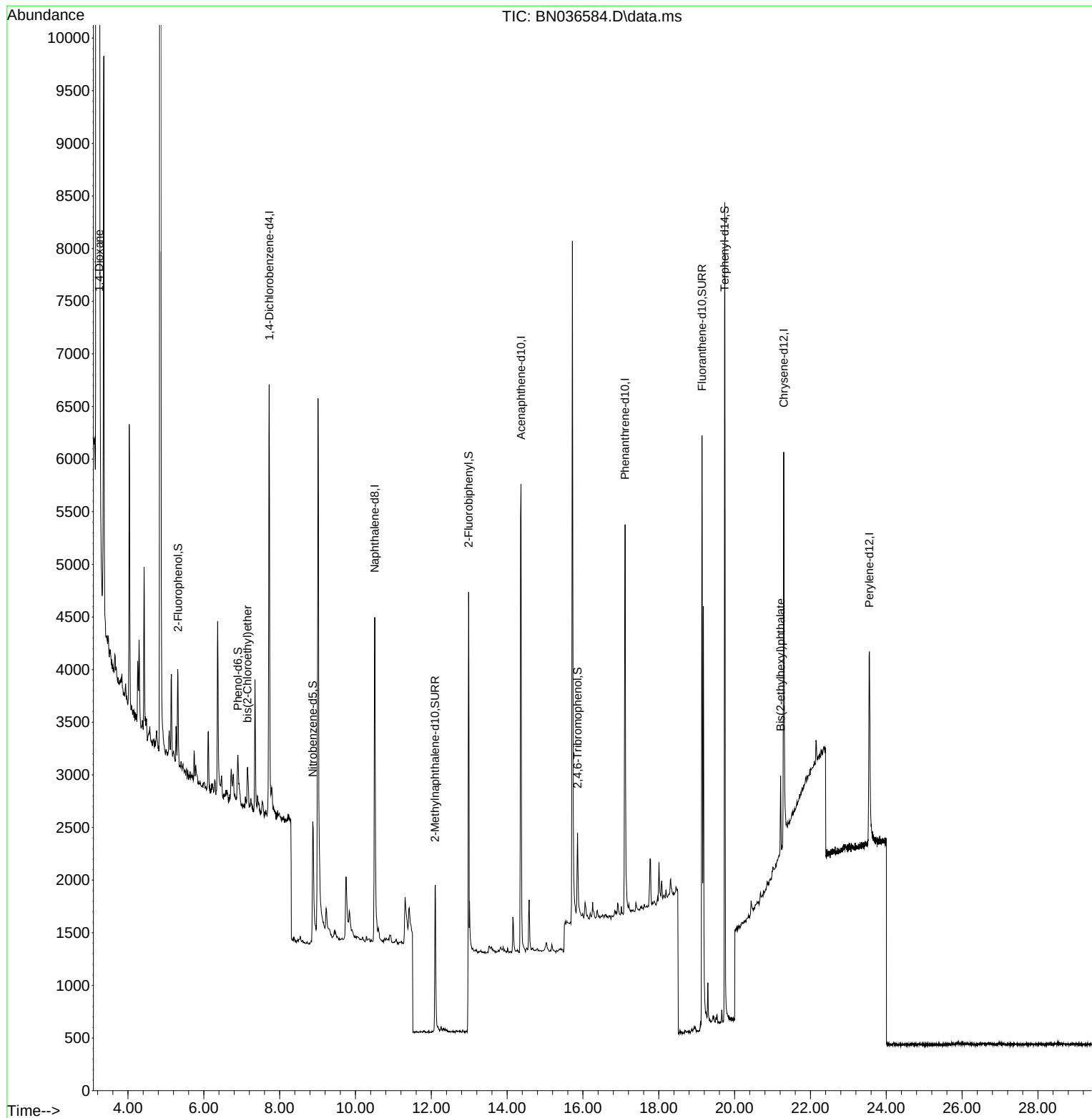
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1950	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4552	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2777	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5693	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3977	0.400	ng	0.00
35) Perylene-d12	23.554	264	3124	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	684	0.151	ng	0.00
5) Phenol-d6	6.901	99	435	0.077	ng	0.00
8) Nitrobenzene-d5	8.875	82	1368	0.276	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	2278	0.336	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	499	0.396	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	5847	0.362	ng	0.00
27) Fluoranthene-d10	19.141	212	6661	0.457	ng	0.00
31) Terphenyl-d14	19.740	244	7515	0.789	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	12148	5.616	ng	97
6) bis(2-Chloroethyl)ether	7.154	93	267	0.046	ng	# 88
34) Bis(2-ethylhexyl)phtha...	21.214	149	757	0.077	ng	# 97

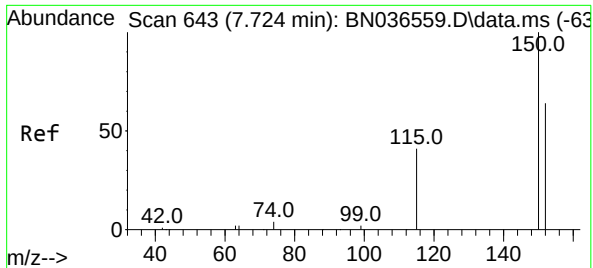
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036584.D
Acq On : 11 Mar 2025 16:44
Operator : RC/JU
Sample : Q1531-15
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

Quant Time: Mar 11 17:07:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

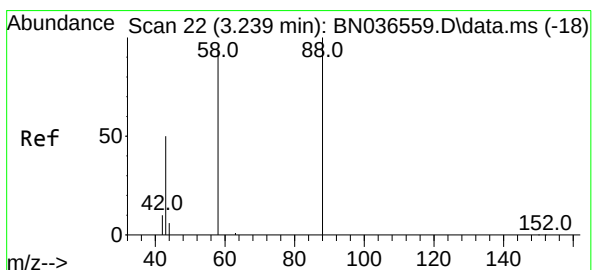
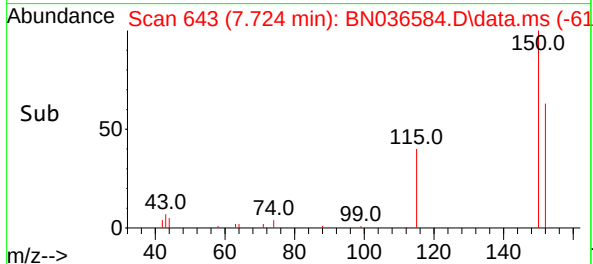
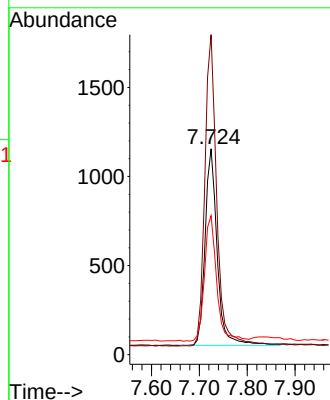
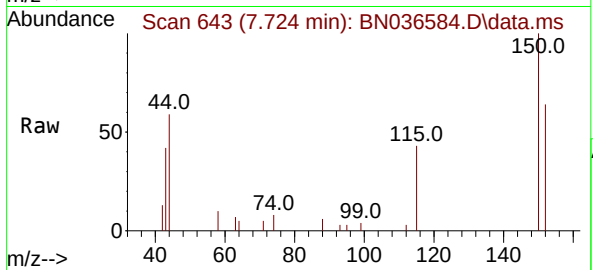




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

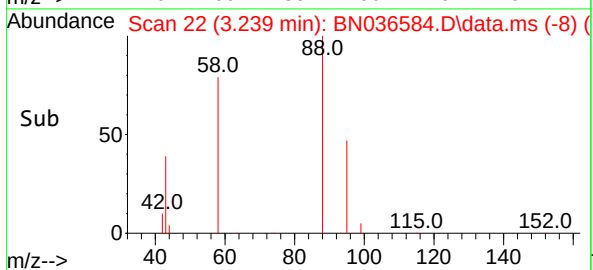
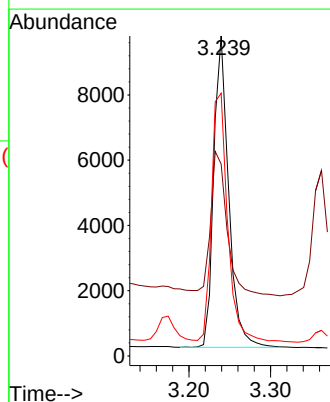
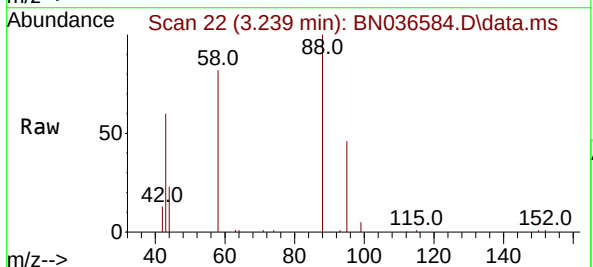
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

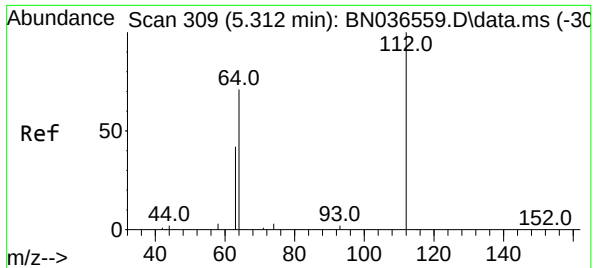
Tgt Ion:152 Resp: 1950
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 67.5 54.3 81.5



#2
1,4-Dioxane
Concen: 5.616 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion: 88 Resp: 12148
Ion Ratio Lower Upper
88 100
43 50.9 37.8 56.8
58 85.4 67.4 101.2

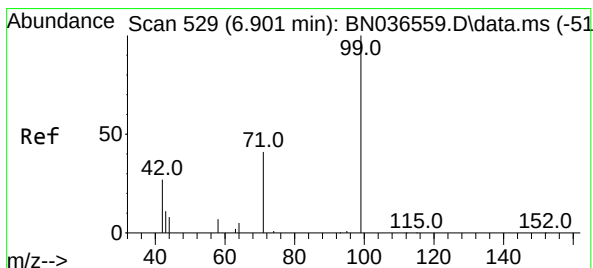
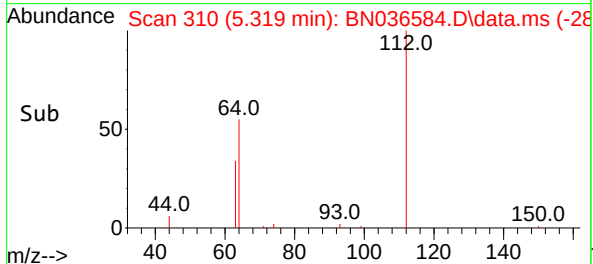
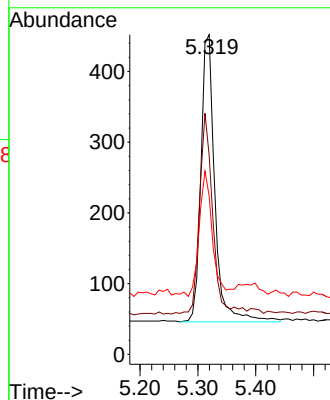
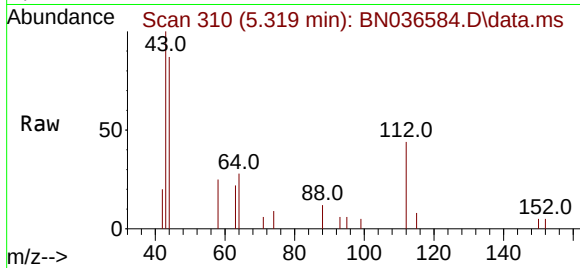




#4
2-Fluorophenol
Concen: 0.151 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

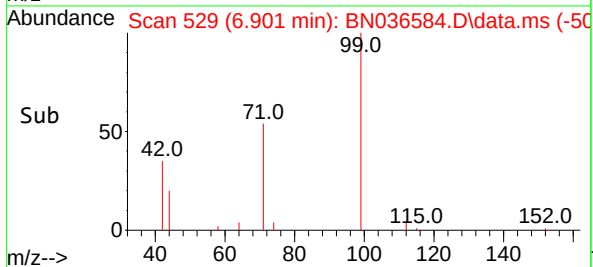
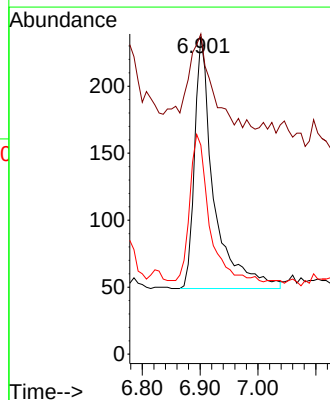
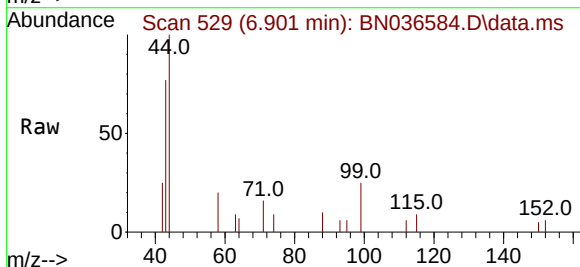
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

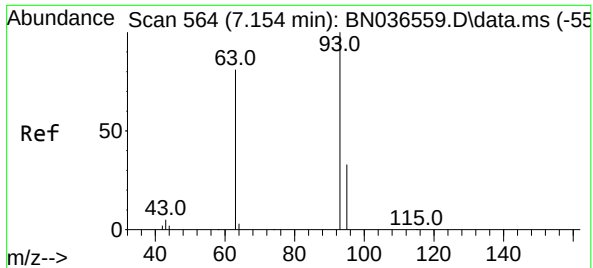
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.1	79.7
63	40.4	31.8	47.8



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.1	26.5	39.7#
71	60.0	34.1	51.1#

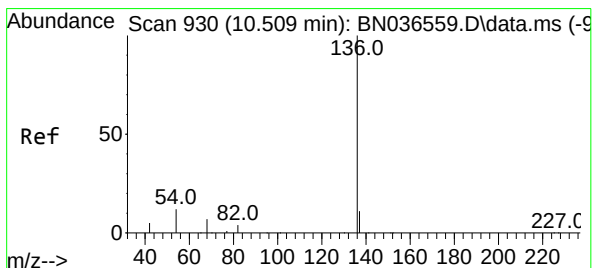
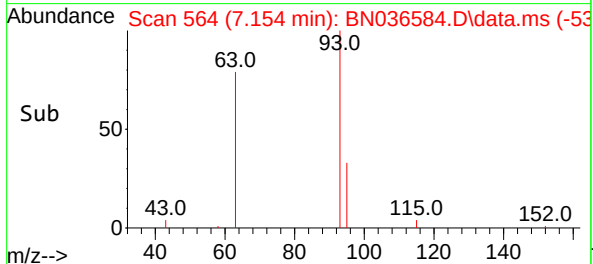
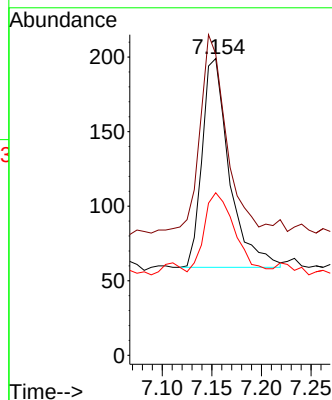
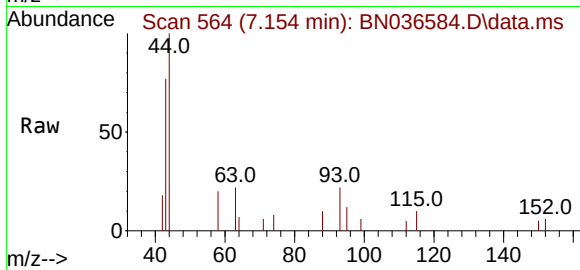




#6
bis(2-Chloroethyl)ether
Concen: 0.046 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

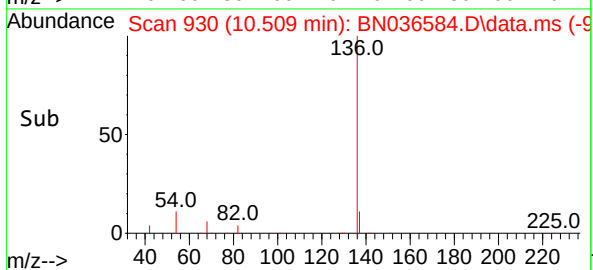
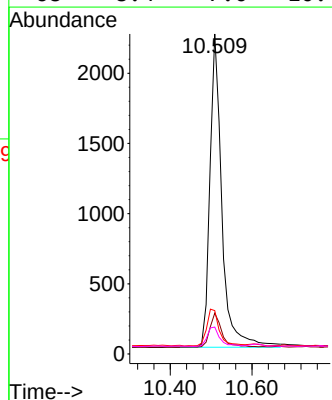
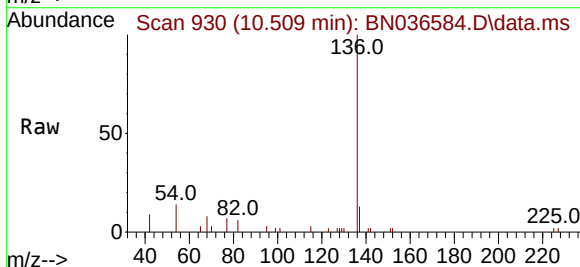
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

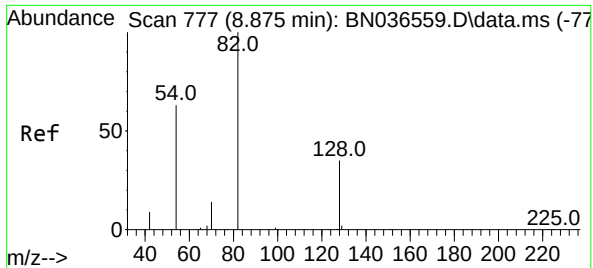
Tgt Ion:	93	Resp:	267
Ion	Ratio	Lower	Upper
93	100		
63	93.6	67.7	101.5
95	42.3	25.6	38.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion:	136	Resp:	4552
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	13.6	11.5	17.3
68	8.4	7.0	10.4

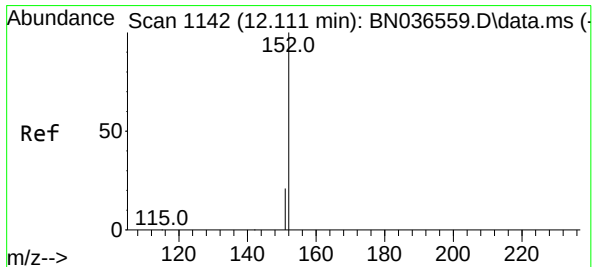
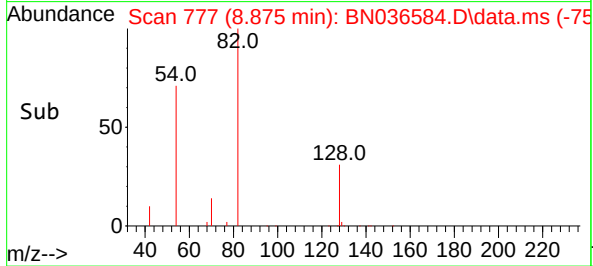
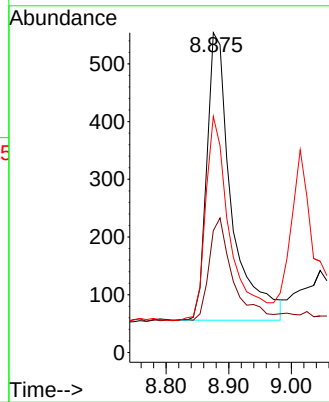
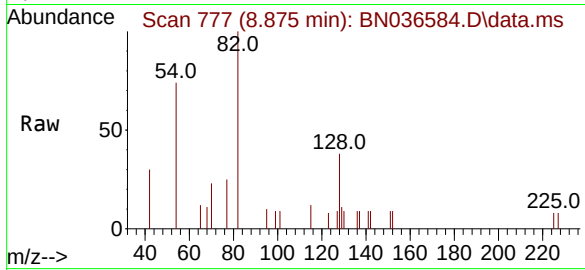




#8
Nitrobenzene-d5
Concen: 0.276 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

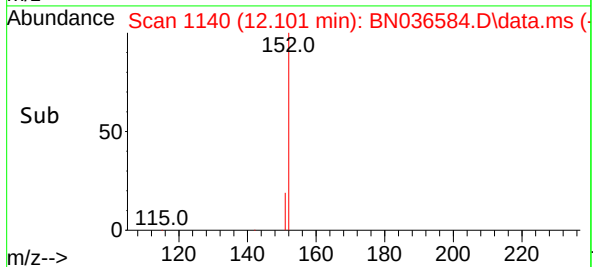
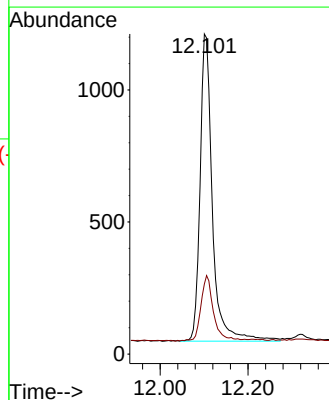
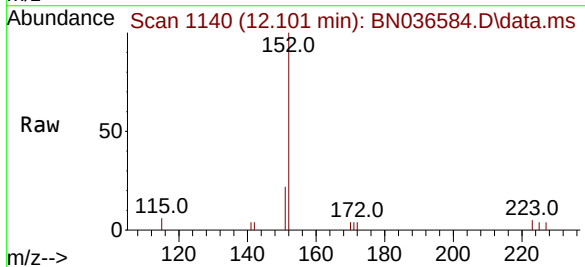
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

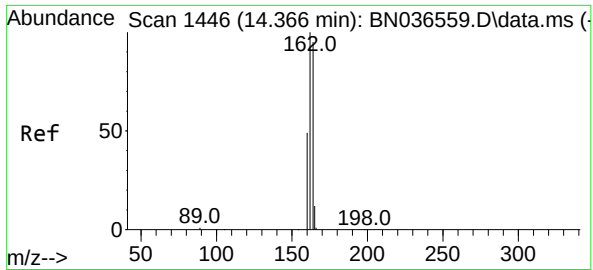
Tgt Ion:	82	Resp:	1368
Ion	Ratio	Lower	Upper
82	100		
128	38.1	30.6	45.8
54	73.8	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion:	152	Resp:	2278
Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

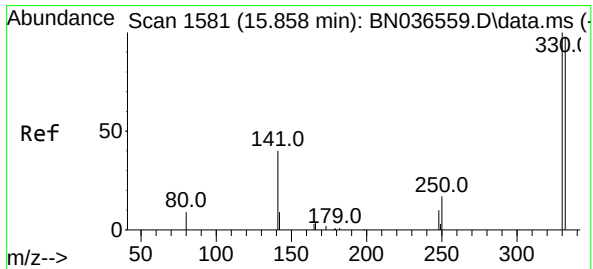
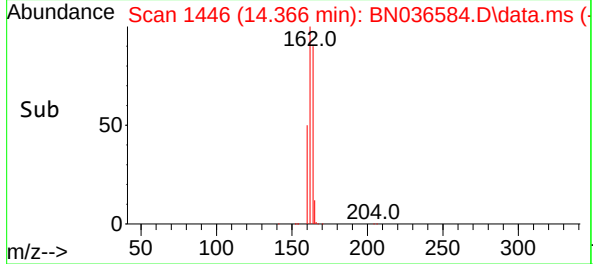
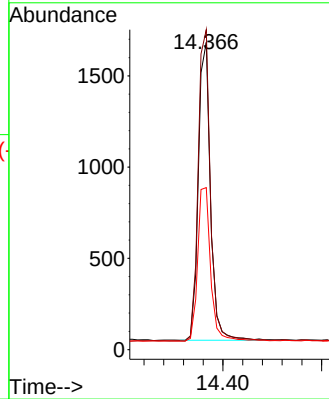
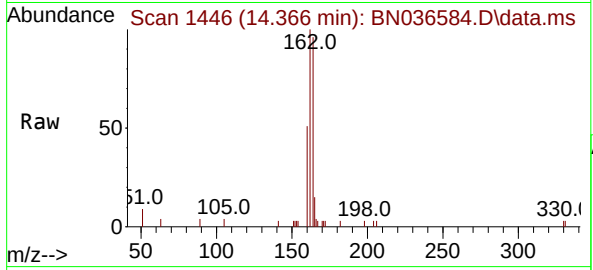




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

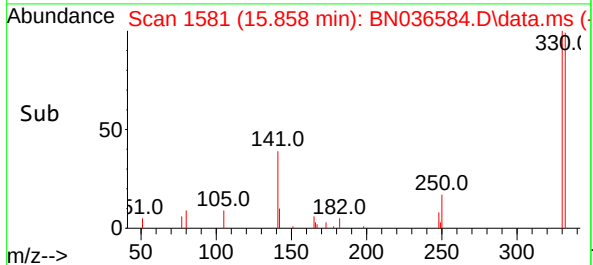
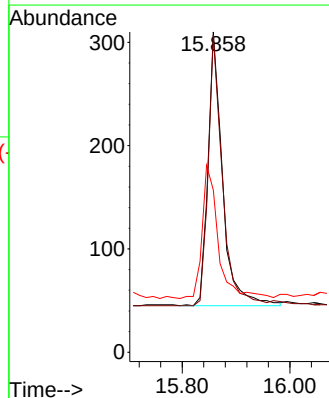
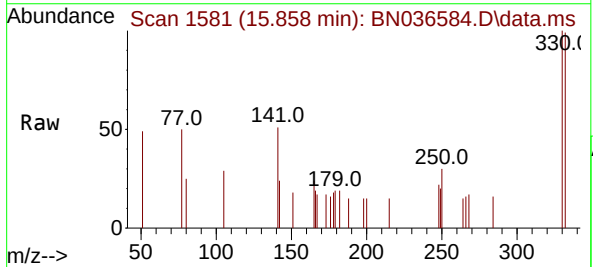
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

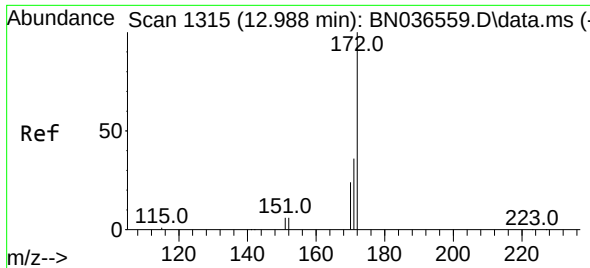
Tgt Ion:164 Resp: 2777
Ion Ratio Lower Upper
164 100
162 104.1 84.2 126.2
160 52.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion:330 Resp: 499
Ion Ratio Lower Upper
330 100
332 95.6 75.2 112.8
141 53.7 43.4 65.2

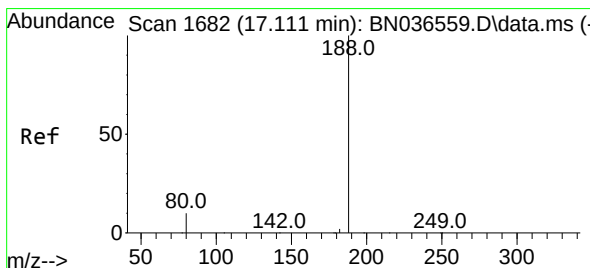
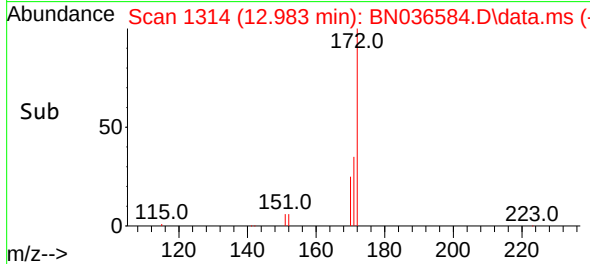
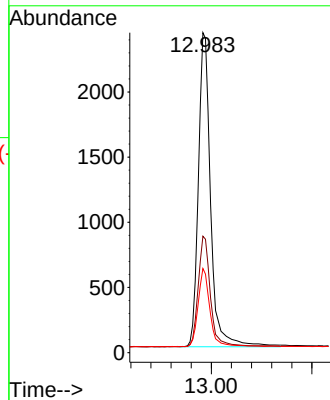
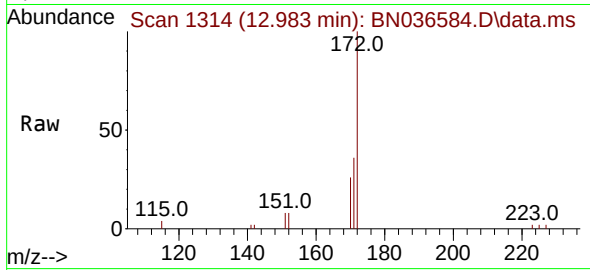




#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

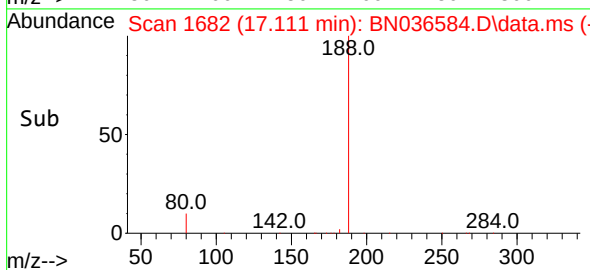
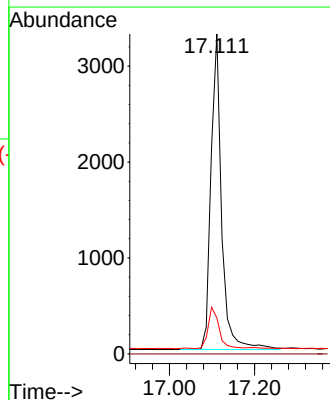
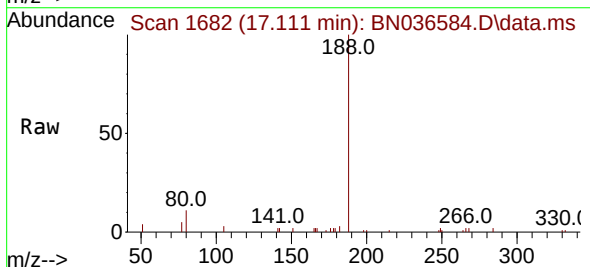
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

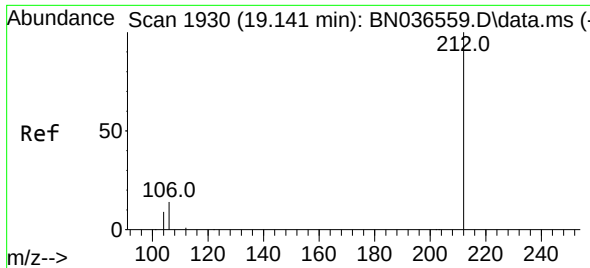
Tgt Ion:	172	Resp:	5847
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.5	44.3
170	26.3	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion:	188	Resp:	5693
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	8.8	13.2

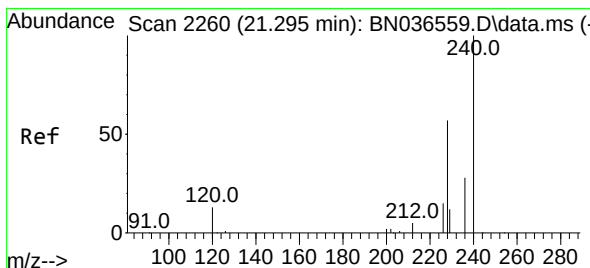
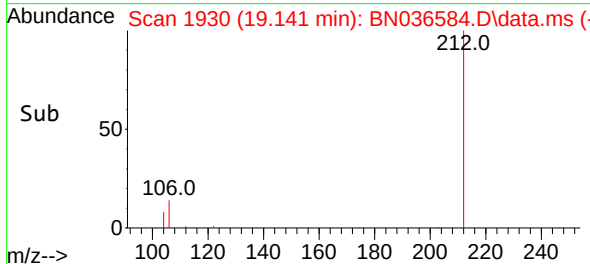
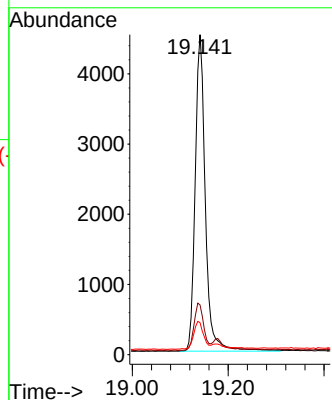
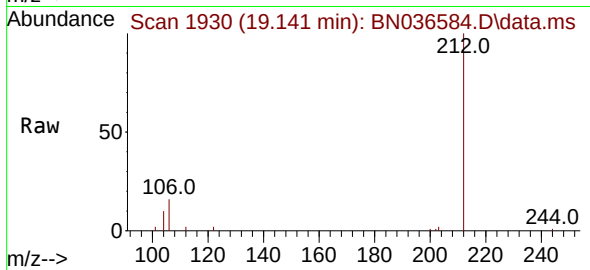




#27
Fluoranthene-d10
Concen: 0.457 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

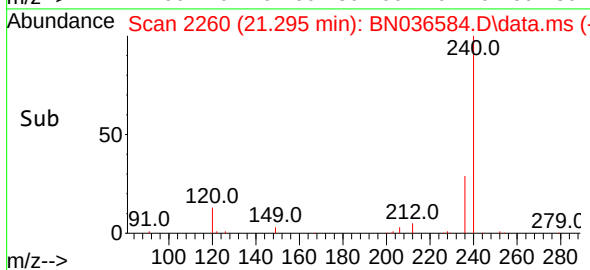
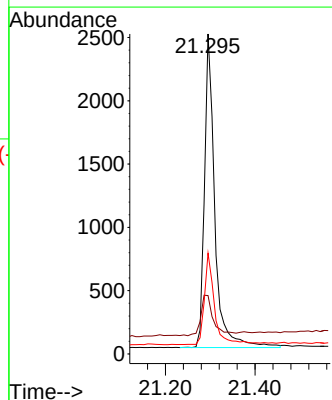
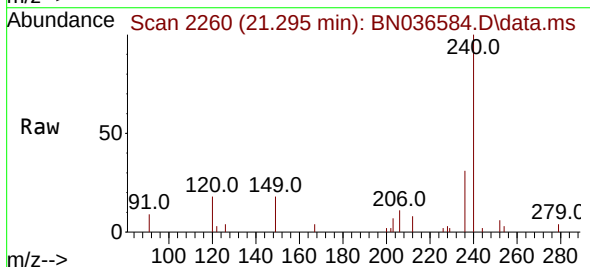
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

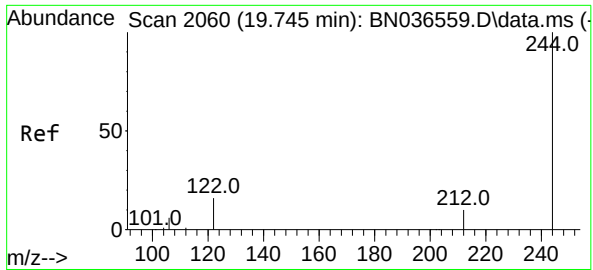
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.7	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.2	14.6	22.0
236	31.5	24.1	36.1

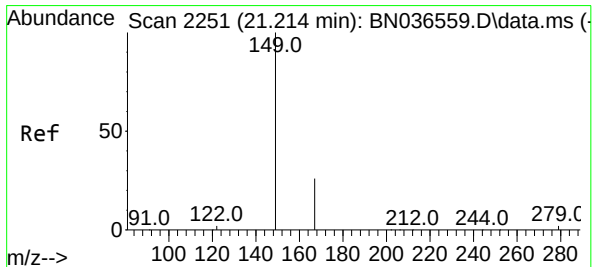
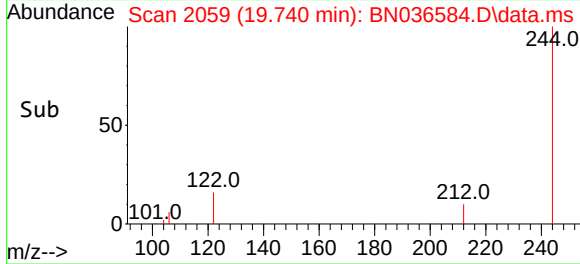
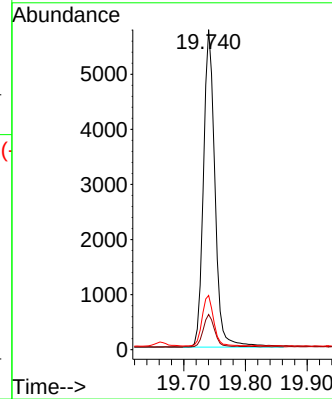
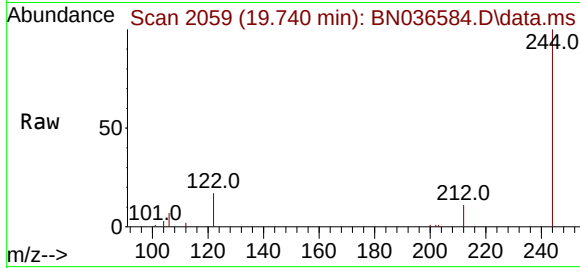




#31
Terphenyl-d14
Concen: 0.789 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

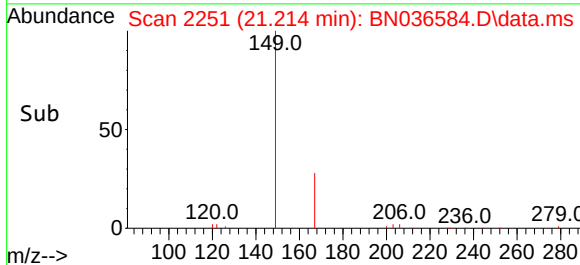
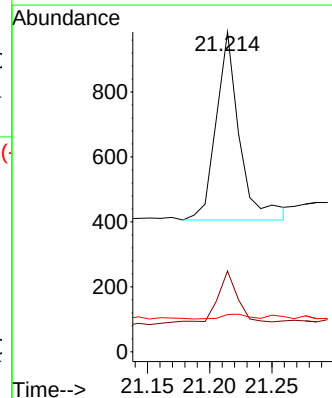
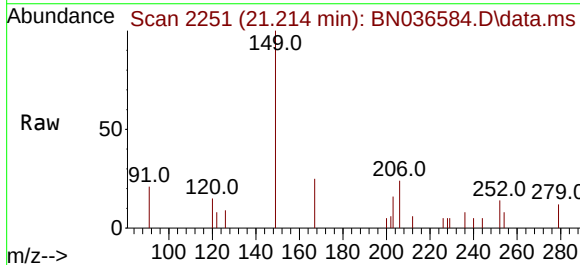
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306

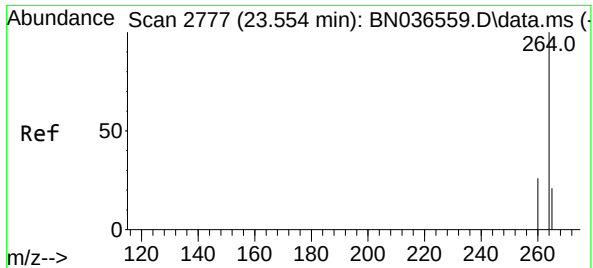
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.6	14.4
122	17.0	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036584.D
Acq: 11 Mar 2025 16:44

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.4	20.7	31.1
279	2.8	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036584.D

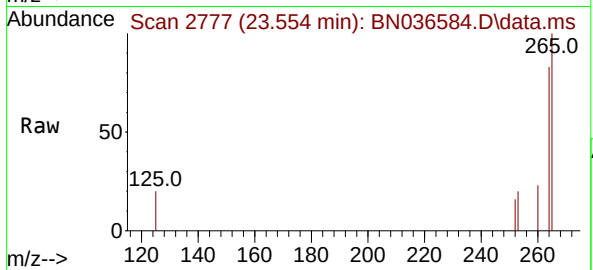
Acq: 11 Mar 2025 16:44

Instrument :

BNA_N

ClientSampleId :

RE105D2-20250306



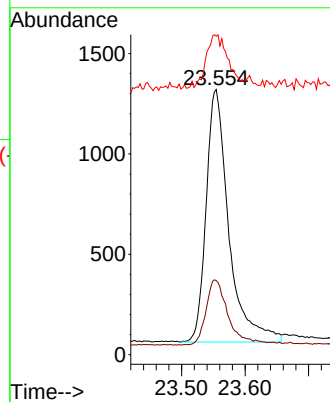
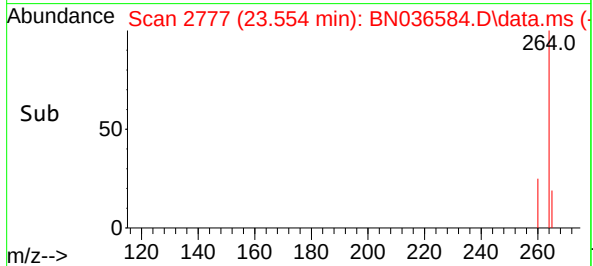
Tgt Ion:264 Resp: 3124

Ion Ratio Lower Upper

264 100

260 27.9 22.6 33.8

265 120.1 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/07/25
Client Sample ID:	RE105D2-20250306DL		SDG No.:	Q1531
Lab Sample ID:	Q1531-15DL		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
BN036596.D	2	03/10/25 11:35	03/12/25 12:16	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.00	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.82	*	58 - 132		206%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960		7.724			
1146-65-2	Naphthalene-d8	4590		10.509			
15067-26-2	Acenaphthene-d10	2770		14.366			
1517-22-2	Phenanthrene-d10	5530		17.111			
1719-03-5	Chrysene-d12	3880		21.295			
1520-96-3	Perylene-d12	3090		23.554			

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\BN031225\
Data File : BN036596.D
Acq On : 12 Mar 2025 12:16
Operator : RC/JU
Sample : Q1531-15DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

Quant Time: Mar 12 12:50:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

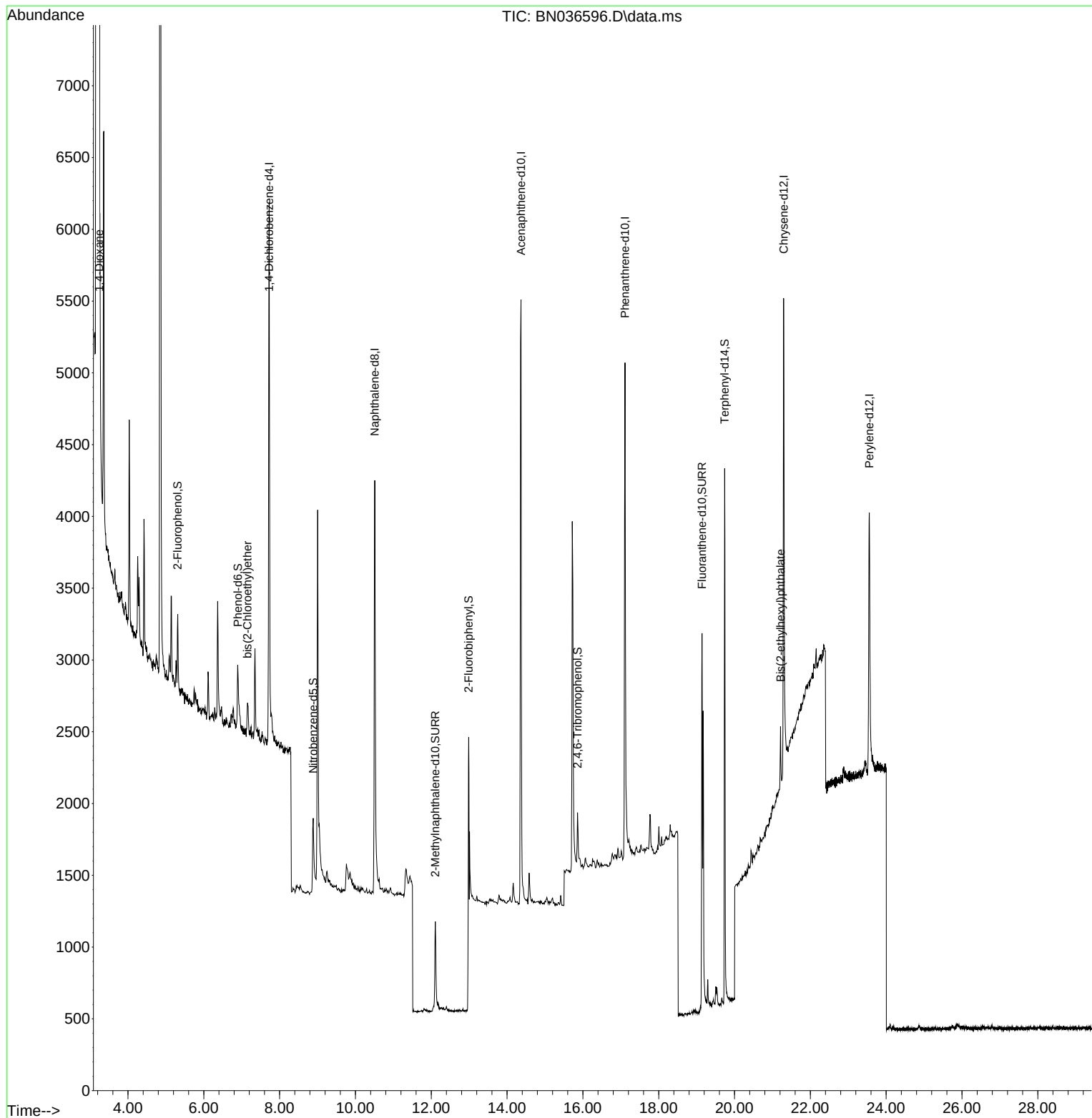
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1963	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4593	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2774	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5527	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3876	0.400	ng	0.00
35) Perylene-d12	23.554	264	3091	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	369	0.081	ng	0.00
5) Phenol-d6	6.901	99	509	0.090	ng	0.00
8) Nitrobenzene-d5	8.886	82	697	0.139	ng	0.01
11) 2-Methylnaphthalene-d10	12.106	152	1251	0.183	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	258	0.205	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	2982	0.185	ng	0.00
27) Fluoranthene-d10	19.141	212	3405	0.240	ng	0.00
31) Terphenyl-d14	19.740	244	3815	0.411	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	6563	3.014	ng	96
6) bis(2-Chloroethyl)ether	7.154	93	150	0.026	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.214	149	474	0.049	ng	# 96

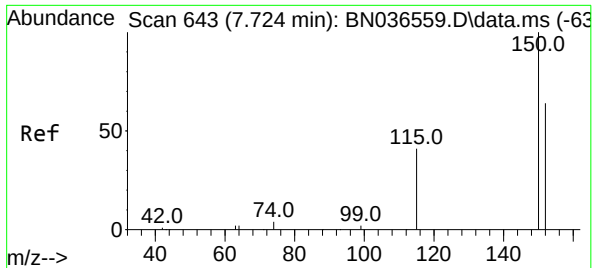
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036596.D
Acq On : 12 Mar 2025 12:16
Operator : RC/JU
Sample : Q1531-15DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

Quant Time: Mar 12 12:50:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

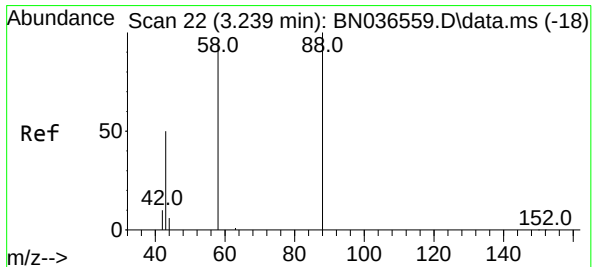
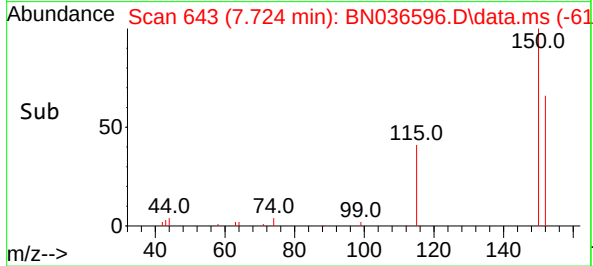
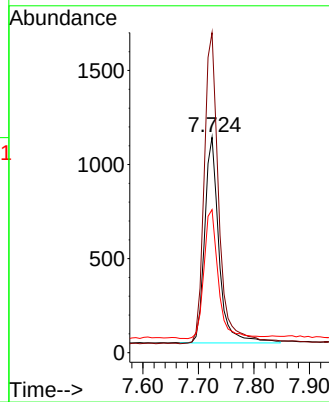
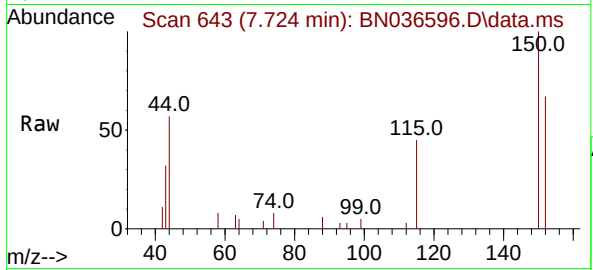




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

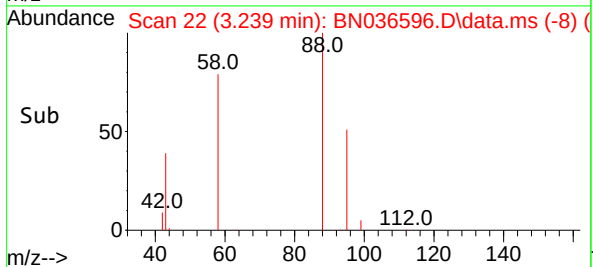
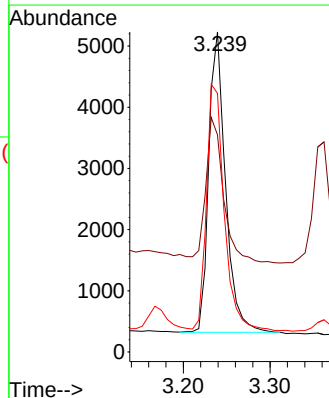
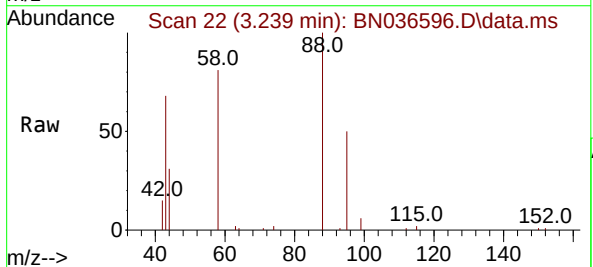
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

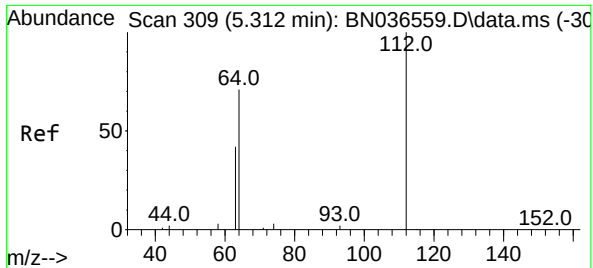
Tgt Ion: 152 Resp: 1963
Ion Ratio Lower Upper
152 100
150 148.6 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 3.014 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion: 88 Resp: 6563
Ion Ratio Lower Upper
88 100
43 51.2 37.8 56.8
58 87.1 67.4 101.2

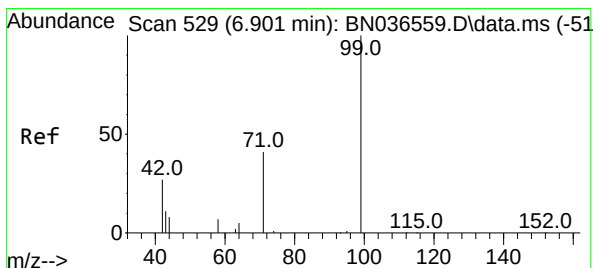
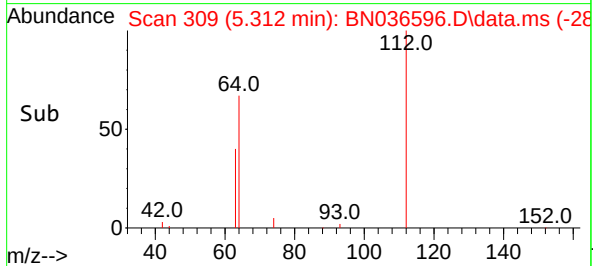
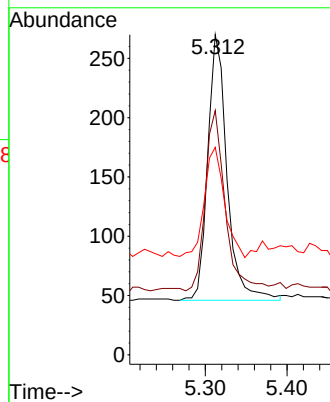
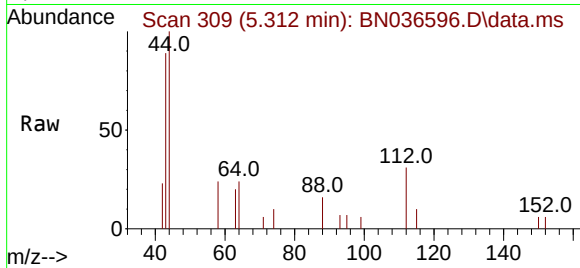




#4
2-Fluorophenol
Concen: 0.081 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

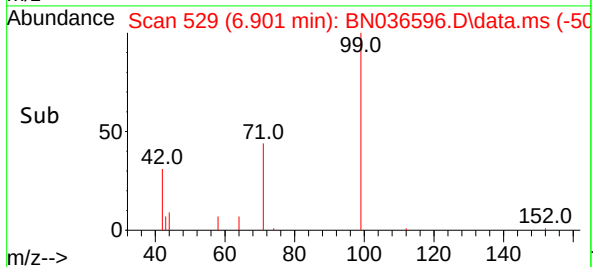
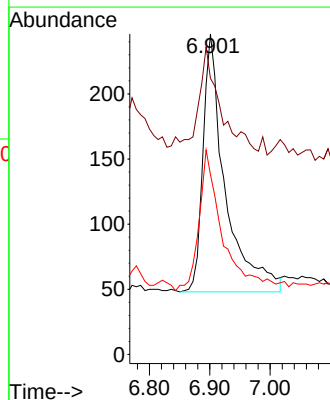
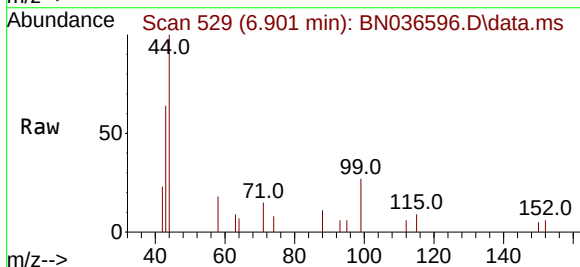
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

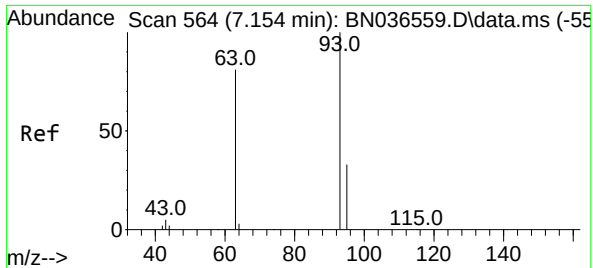
Tgt Ion:	112	Resp:	369
Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	43.6	31.8	47.8



#5
Phenol-d6
Concen: 0.090 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion:	99	Resp:	509
Ion	Ratio	Lower	Upper
99	100		
42	42.2	26.5	39.7#
71	58.3	34.1	51.1#

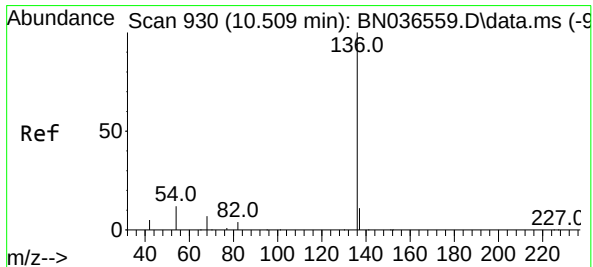
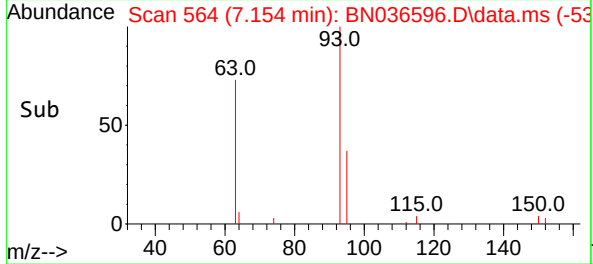
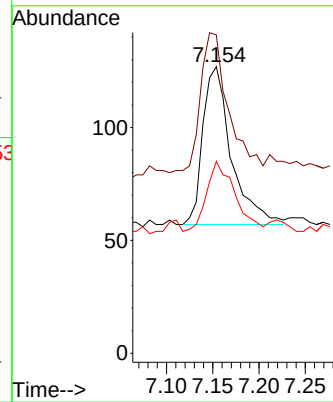
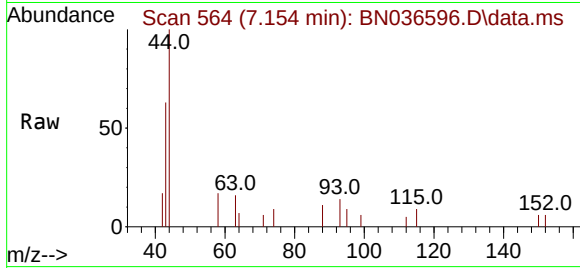




#6
bis(2-Chloroethyl)ether
Concen: 0.026 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

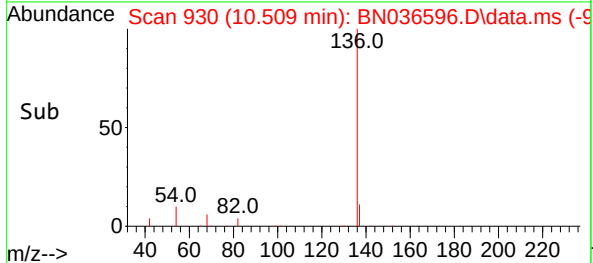
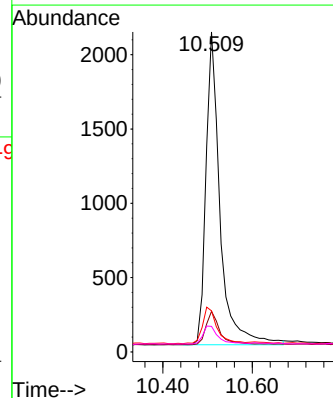
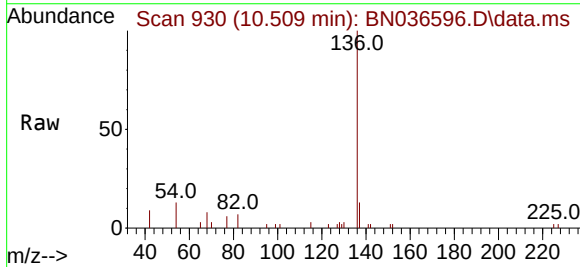
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

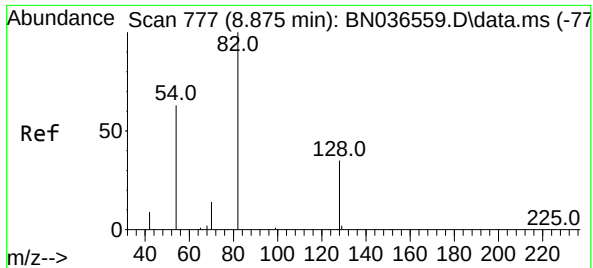
Tgt Ion:	93	Resp:	150
Ion	Ratio	Lower	Upper
93	100		
63	86.7	67.7	101.5
95	49.3	25.6	38.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion:	136	Resp:	4593
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	12.8	11.5	17.3
68	8.0	7.0	10.4

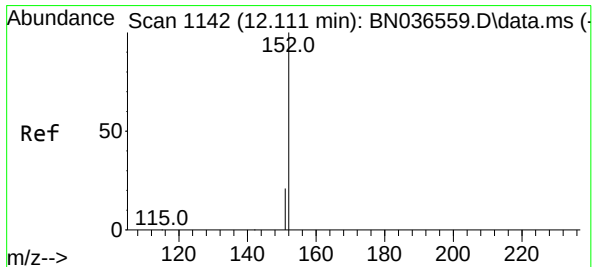
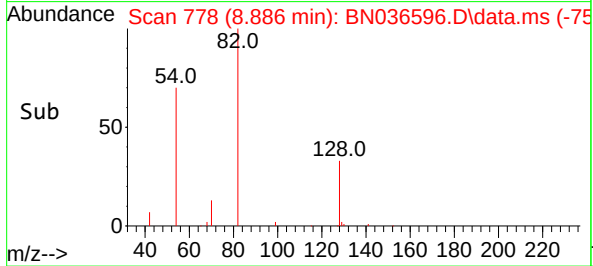
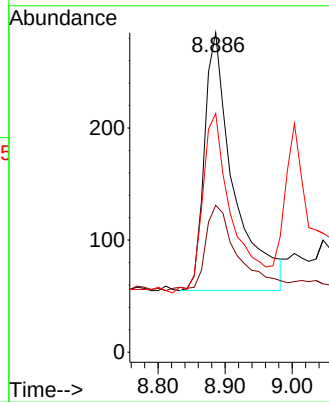
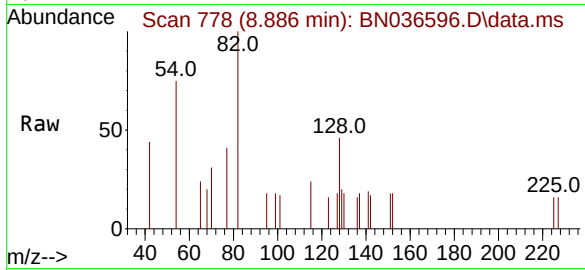




#8
Nitrobenzene-d5
Concen: 0.139 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

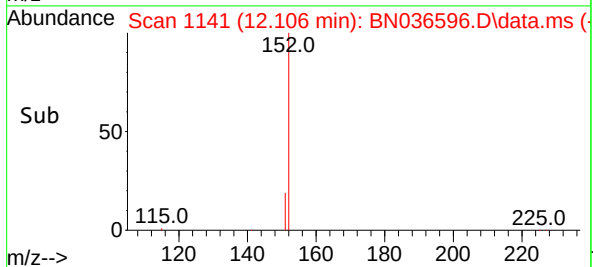
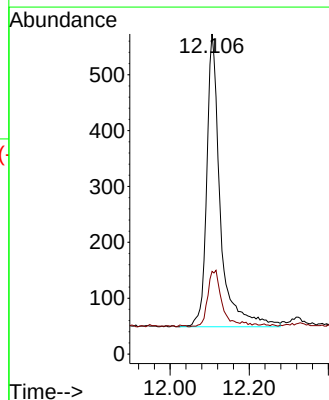
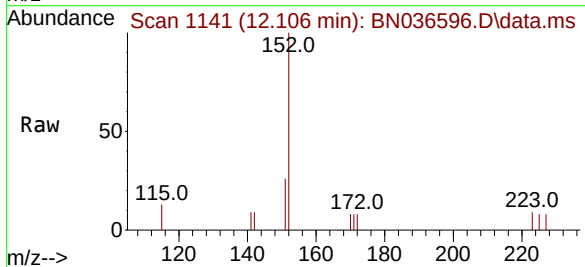
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

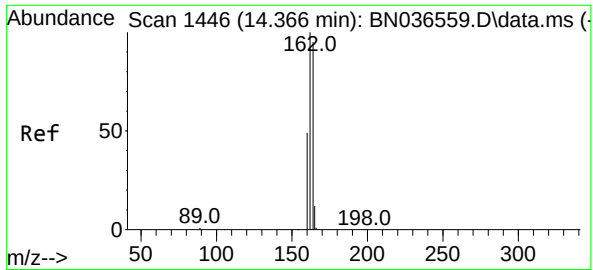
Tgt Ion: 82 Resp: 697
Ion Ratio Lower Upper
82 100
128 46.0 30.6 45.8#
54 74.7 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.183 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion: 152 Resp: 1251
Ion Ratio Lower Upper
152 100
151 19.7 17.0 25.6

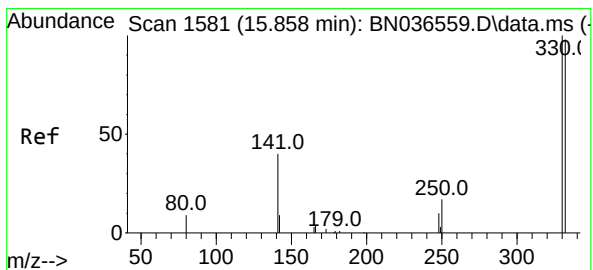
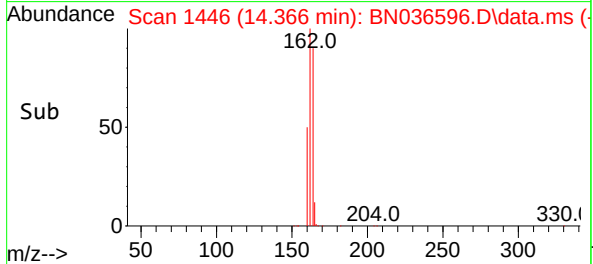
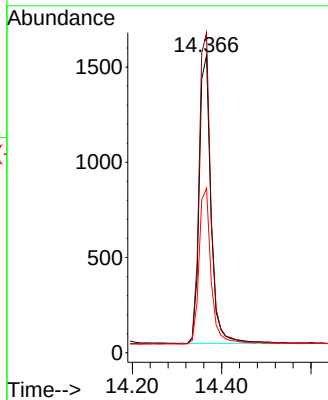
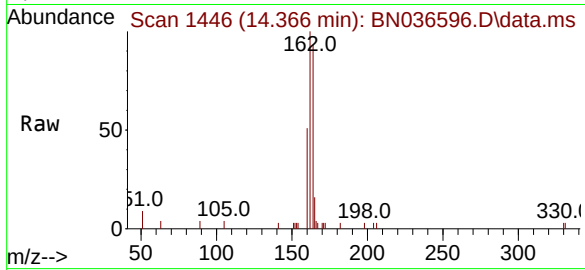




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

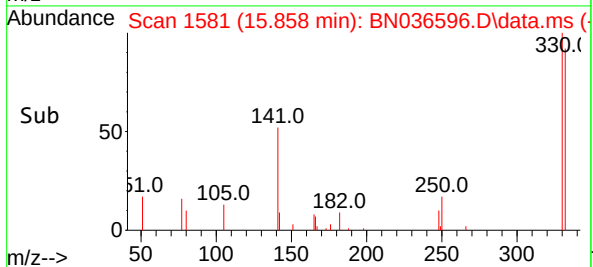
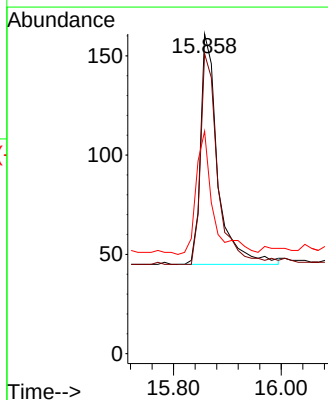
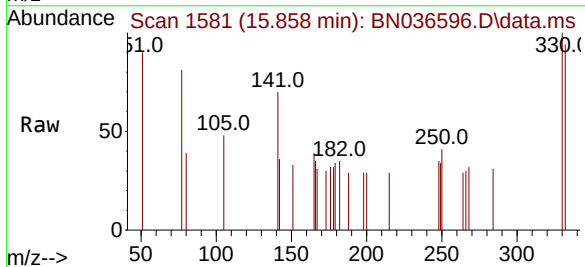
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

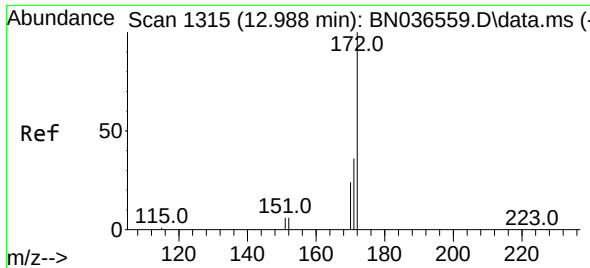
Tgt Ion:	164	Resp:	2774
Ion	Ratio	Lower	Upper
164	100		
162	107.7	84.2	126.2
160	55.3	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion:	330	Resp:	258
Ion	Ratio	Lower	Upper
330	100		
332	89.9	75.2	112.8
141	52.3	43.4	65.2

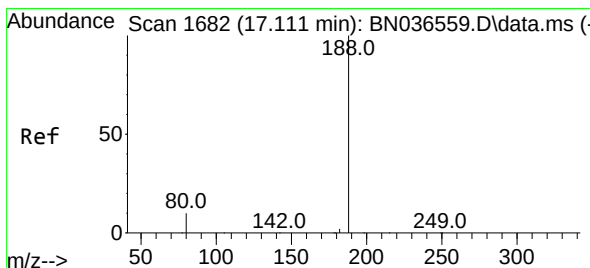
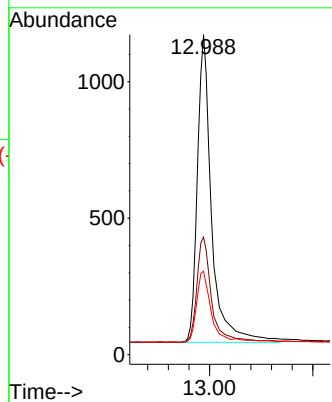
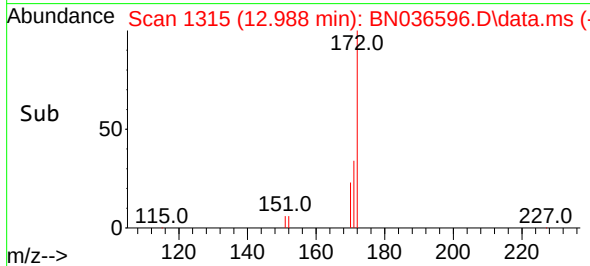
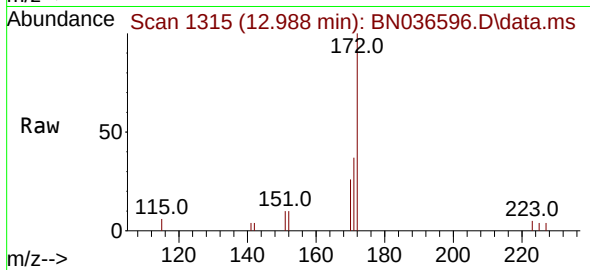




#15
2-Fluorobiphenyl
Concen: 0.185 ng
RT: 12.988 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

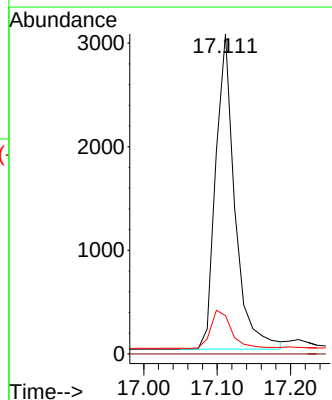
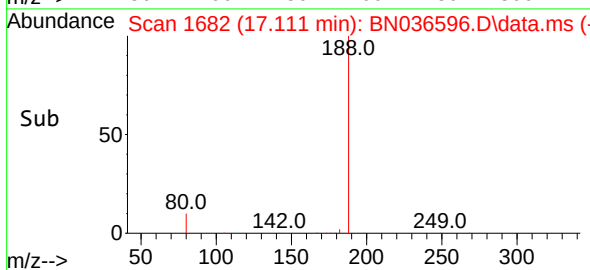
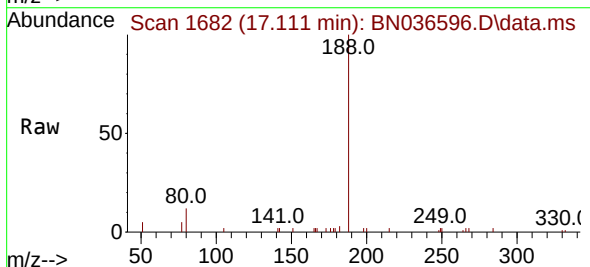
Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

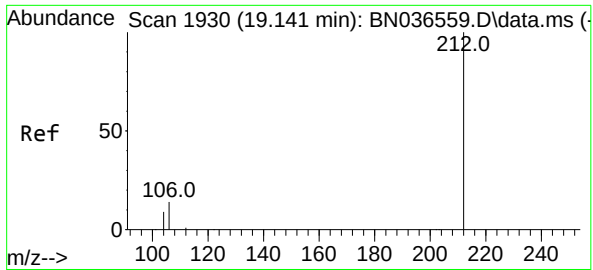
Tgt Ion:	172	Resp:	2982
Ion Ratio	Lower	Upper	
172	100		
171	36.8	29.5	44.3
170	26.1	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion:	188	Resp:	5527
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.0	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.240 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036596.D

Acq: 12 Mar 2025 12:16

Instrument :

BNA_N

ClientSampleId :

RE105D2-20250306DL

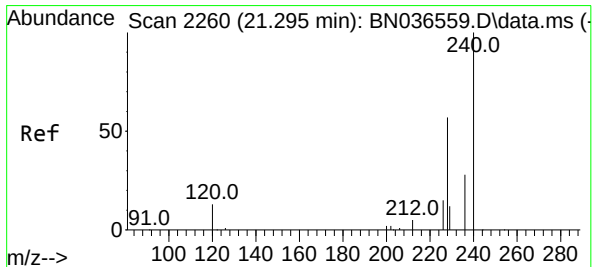
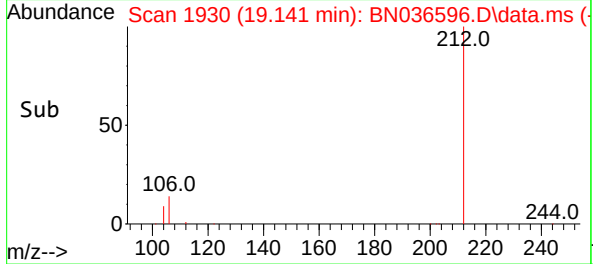
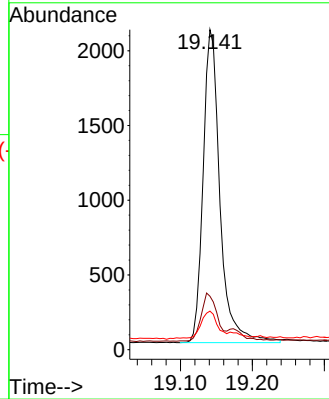
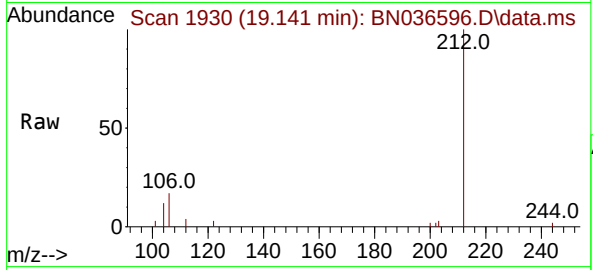
Tgt Ion:212 Resp: 3405

Ion Ratio Lower Upper

212 100

106 14.6 11.8 17.6

104 9.3 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036596.D

Acq: 12 Mar 2025 12:16

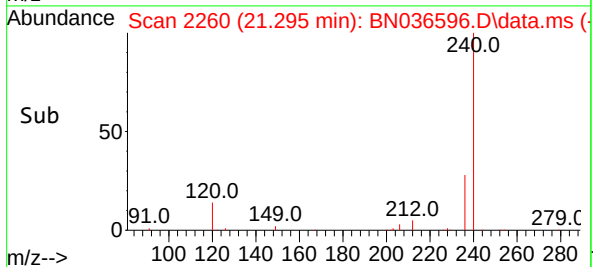
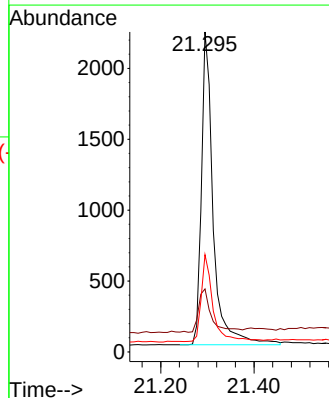
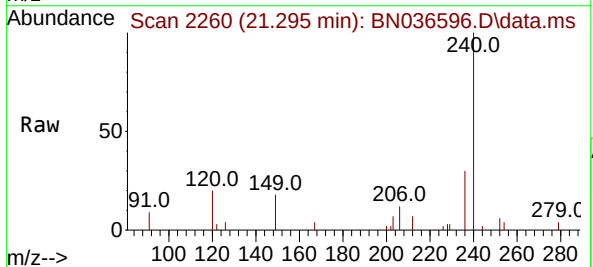
Tgt Ion:240 Resp: 3876

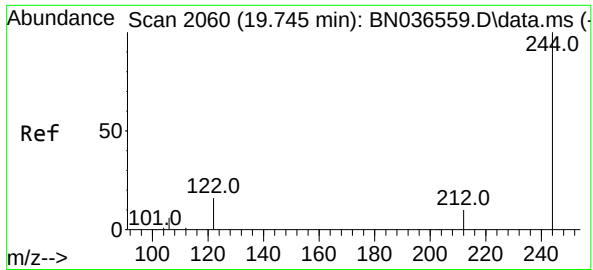
Ion Ratio Lower Upper

240 100

120 19.7 14.6 22.0

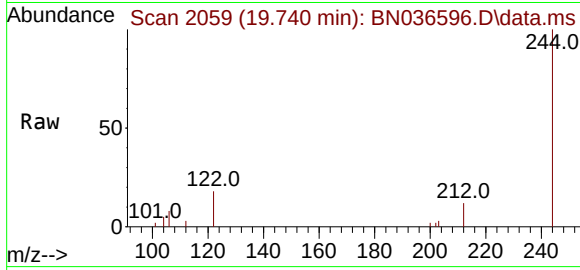
236 30.4 24.1 36.1



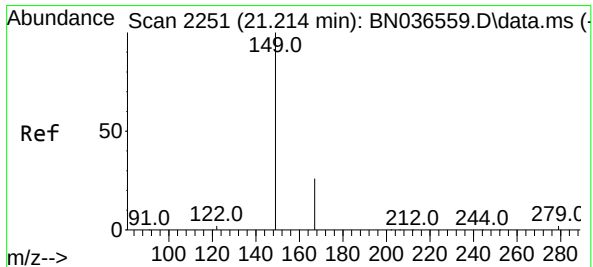
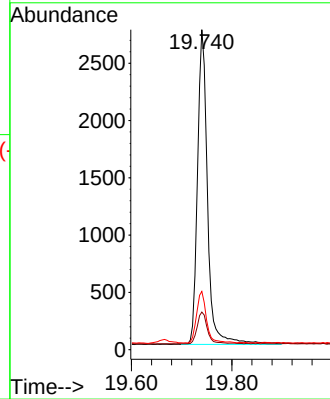
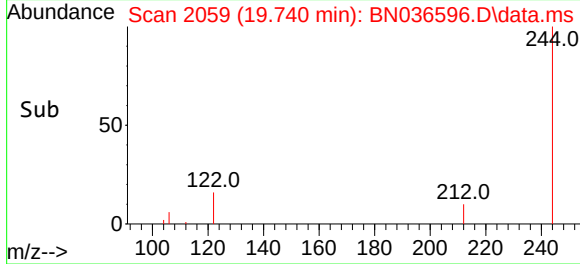


#31
Terphenyl-d14
Concen: 0.411 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Instrument :
BNA_N
ClientSampleId :
RE105D2-20250306DL

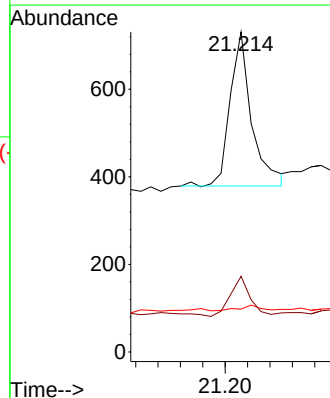
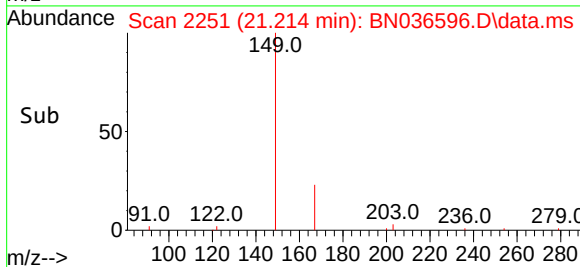
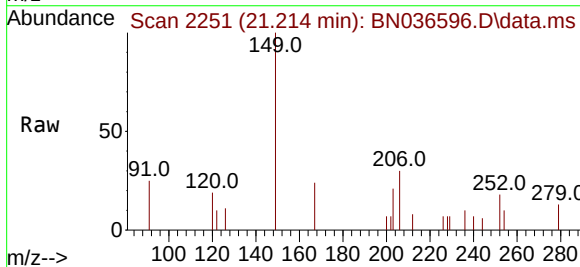


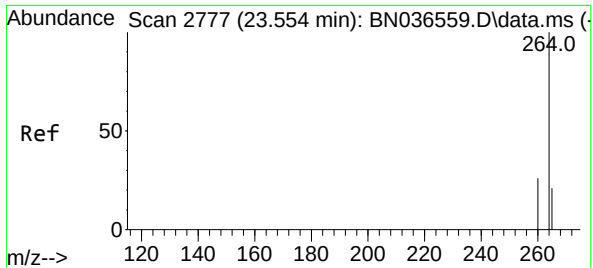
Tgt Ion:244 Resp: 3815
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 18.2 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.049 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036596.D
Acq: 12 Mar 2025 12:16

Tgt Ion:149 Resp: 474
Ion Ratio Lower Upper
149 100
167 23.8 20.7 31.1
279 3.4 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036596.D

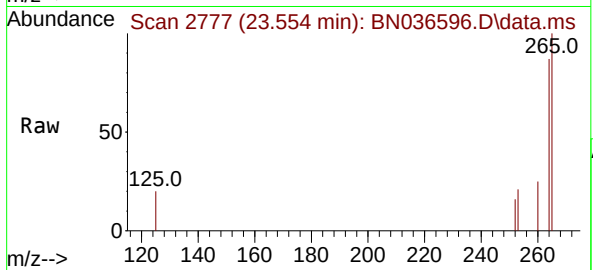
Acq: 12 Mar 2025 12:16

Instrument :

BNA_N

ClientSampleId :

RE105D2-20250306DL



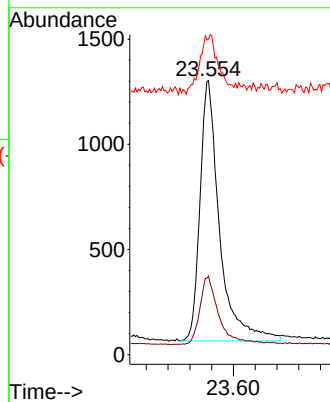
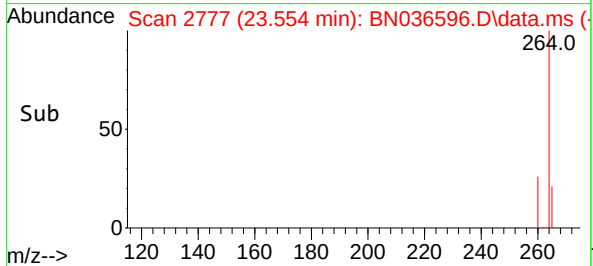
Tgt Ion:264 Resp: 3091

Ion Ratio Lower Upper

264 100

260 28.6 22.6 33.8

265 115.1 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D1-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036585.D	1	03/10/25 11:35	03/11/25 17:21	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.20	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	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	2170		7.724			
1146-65-2	Naphthalene-d8	4990		10.509			
15067-26-2	Acenaphthene-d10	2870		14.355			
1517-22-2	Phenanthrene-d10	5520		17.111			
1719-03-5	Chrysene-d12	3920		21.295			
1520-96-3	Perylene-d12	3020		23.554			

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\BN031125\
Data File : BN036585.D
Acq On : 11 Mar 2025 17:21
Operator : RC/JU
Sample : Q1531-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

Quant Time: Mar 11 18:05:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

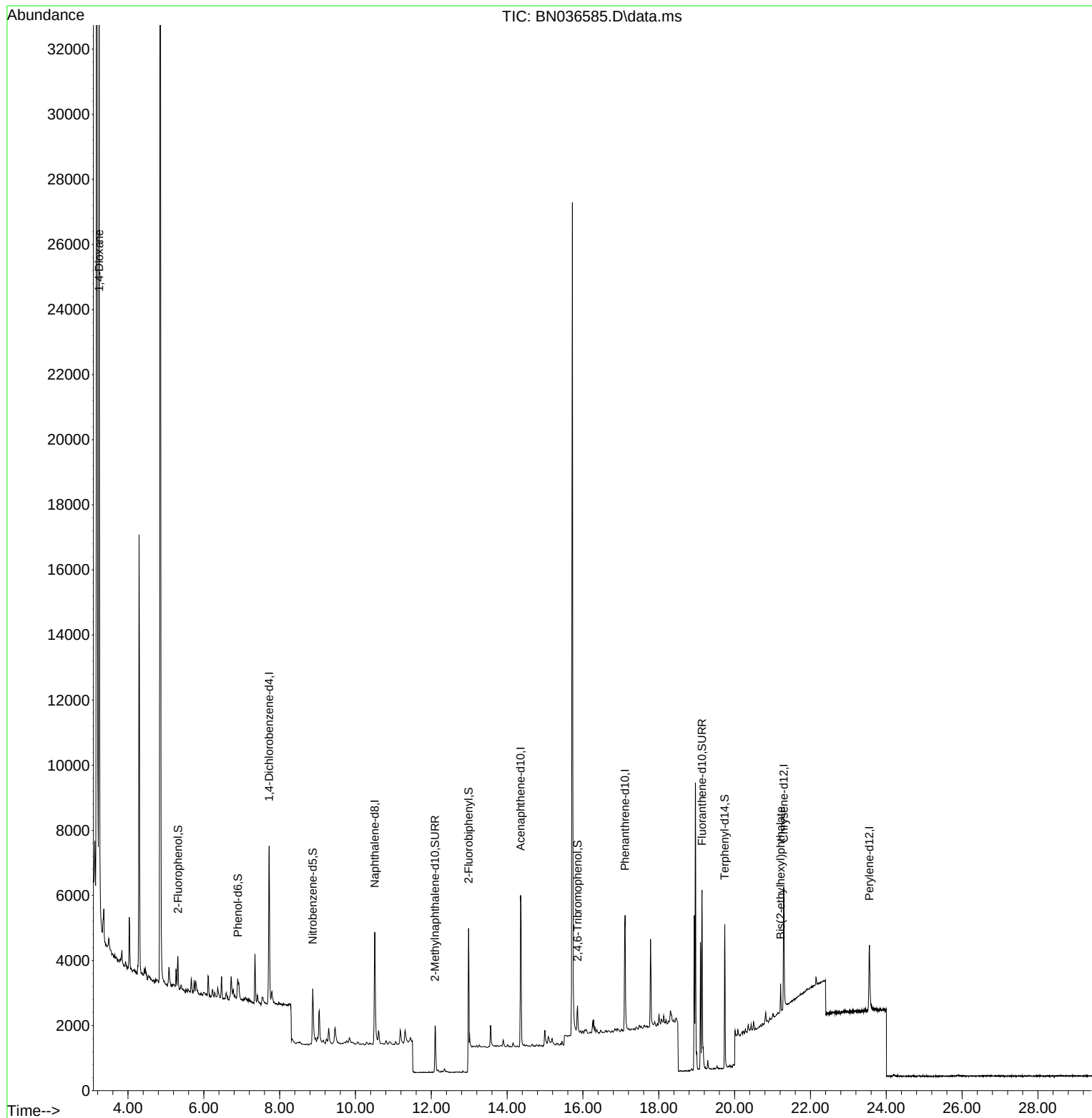
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2166	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4992	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2872	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5521	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3922	0.400	ng	0.00
35) Perylene-d12	23.554	264	3017	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	718	0.142	ng	0.00
5) Phenol-d6	6.901	99	513	0.082	ng	0.00
8) Nitrobenzene-d5	8.875	82	1543	0.284	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	2295	0.309	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	469	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	5973	0.358	ng	0.00
27) Fluoranthene-d10	19.141	212	6239	0.441	ng	0.00
31) Terphenyl-d14	19.740	244	4235	0.451	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	14140	5.885	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	870	0.090	ng	# 98

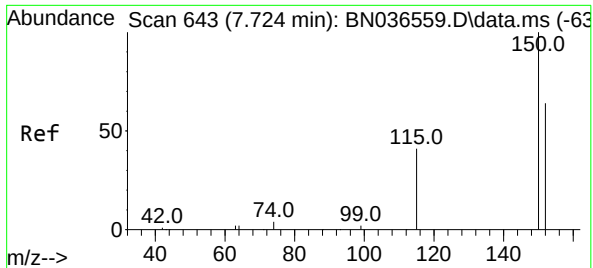
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036585.D
Acq On : 11 Mar 2025 17:21
Operator : RC/JU
Sample : Q1531-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

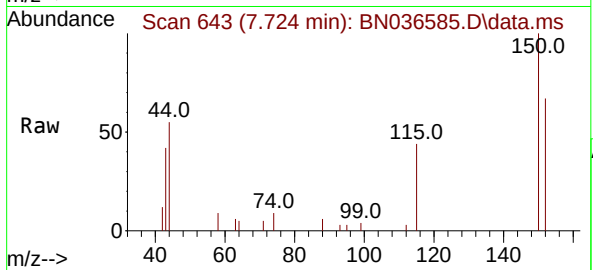
Quant Time: Mar 11 18:05:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



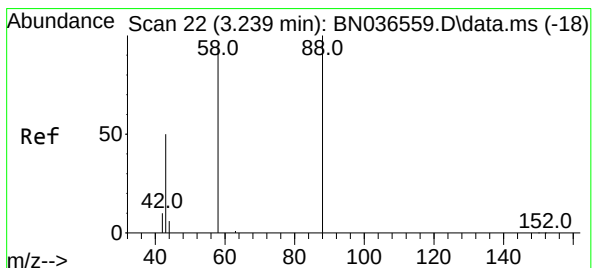
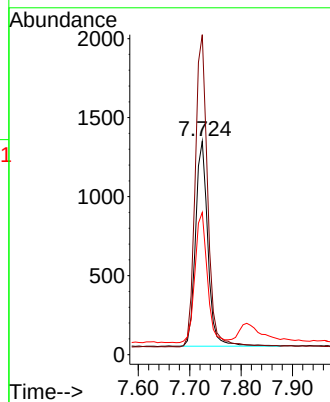
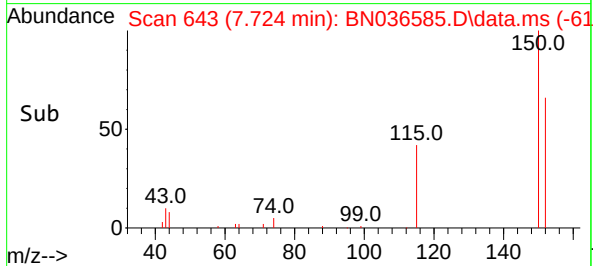


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

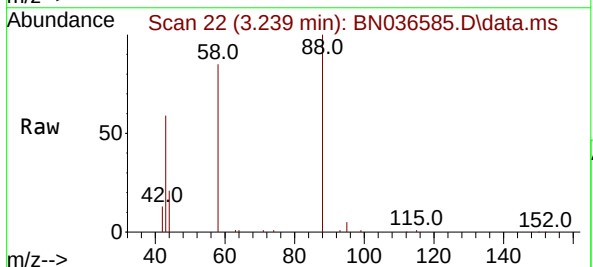
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307



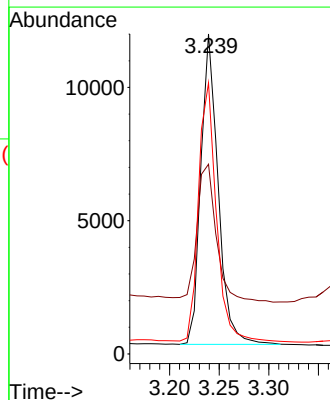
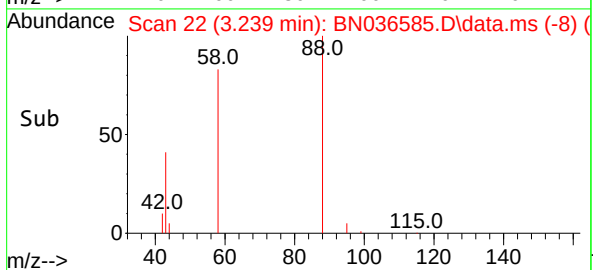
Tgt Ion:152 Resp: 2166
Ion Ratio Lower Upper
152 100
150 149.9 123.7 185.5
115 66.6 54.3 81.5

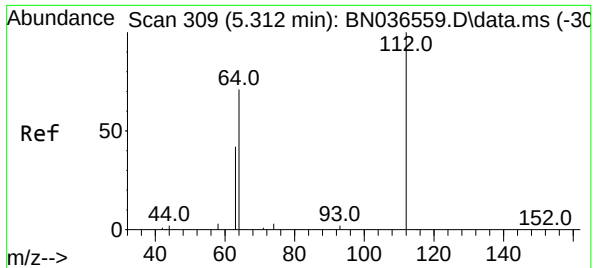


#2
1,4-Dioxane
Concen: 5.885 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21



Tgt Ion: 88 Resp: 14140
Ion Ratio Lower Upper
88 100
43 50.2 37.8 56.8
58 85.6 67.4 101.2

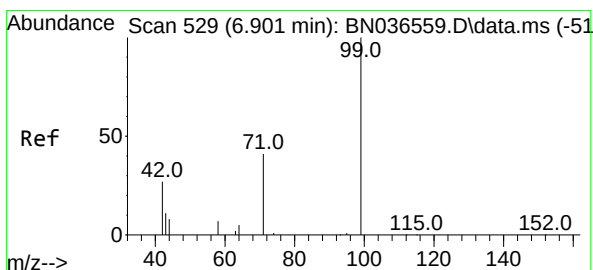
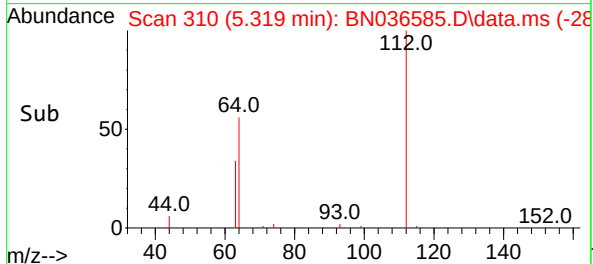
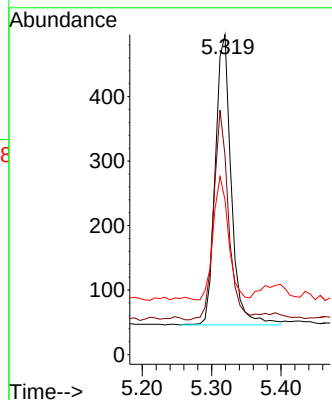
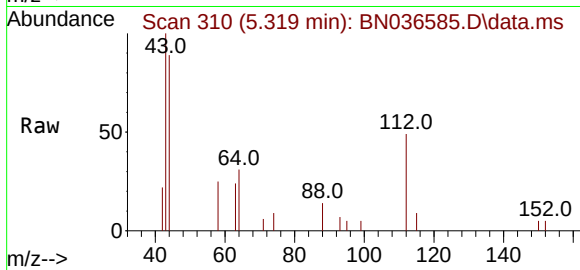




#4
2-Fluorophenol
Concen: 0.142 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

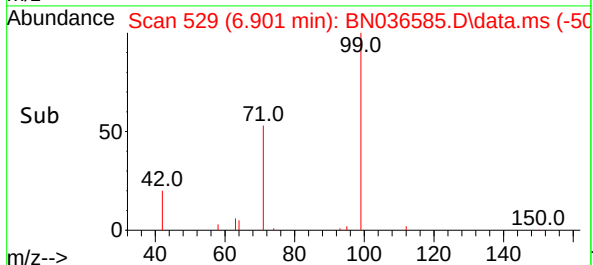
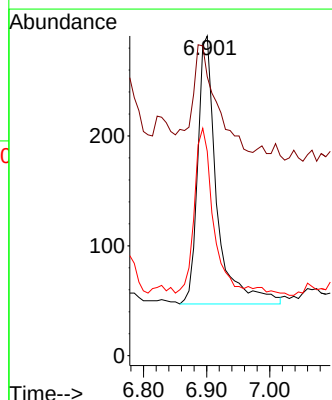
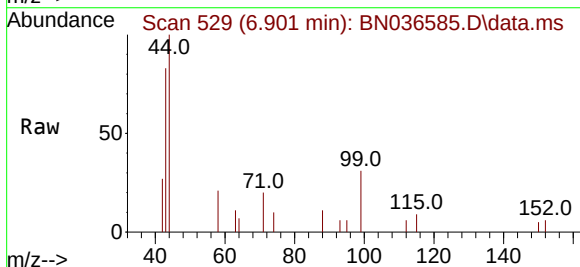
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

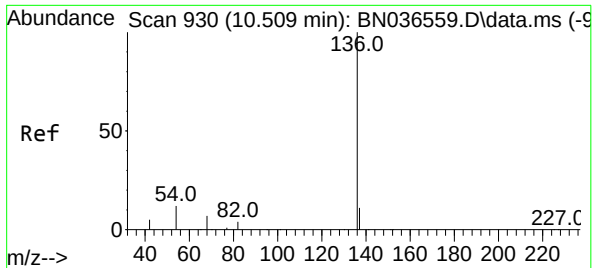
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.1	79.7
63	40.5	31.8	47.8



#5
Phenol-d6
Concen: 0.082 ng
RT: 6.901 min Scan# 529
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion	Ratio	Lower	Upper
99	100		
42	46.6	26.5	39.7#
71	59.8	34.1	51.1#

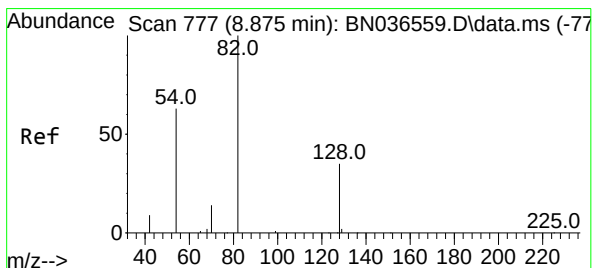
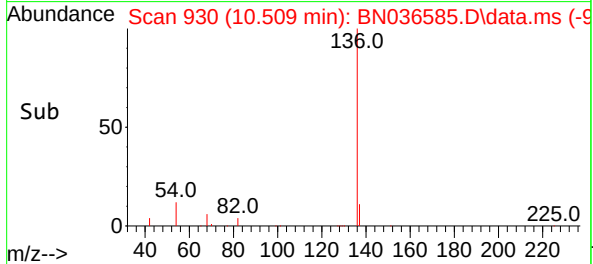
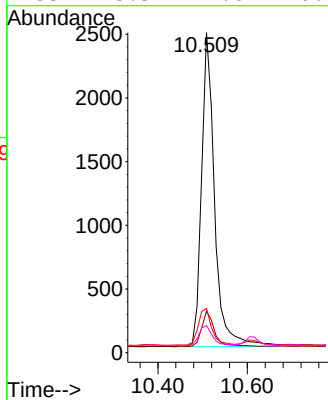
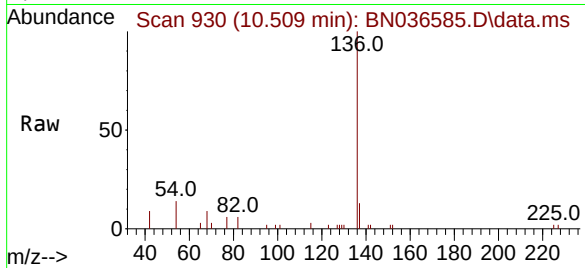




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

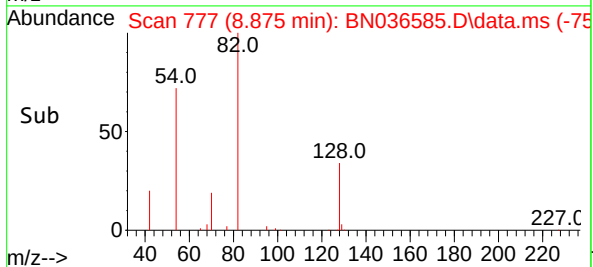
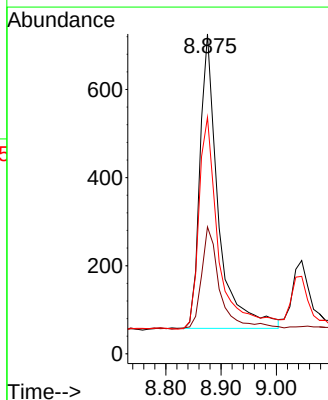
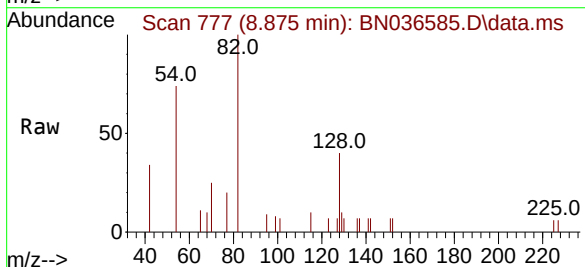
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

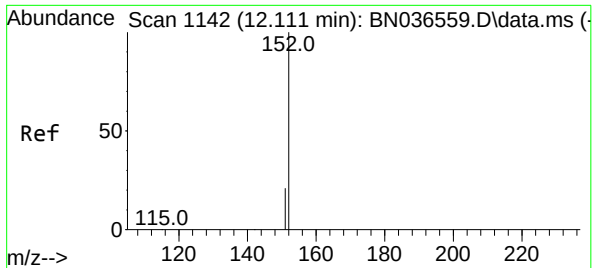
Tgt Ion:	136	Resp:	4992
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion:	82	Resp:	1543
Ion	Ratio	Lower	Upper
82	100		
128	39.7	30.6	45.8
54	74.0	52.2	78.4

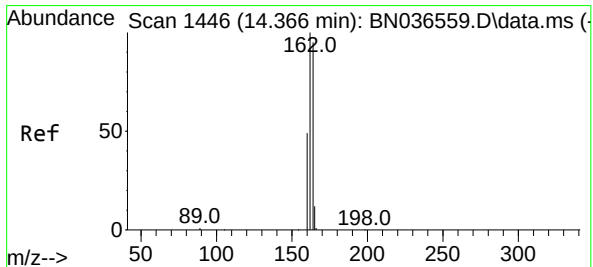
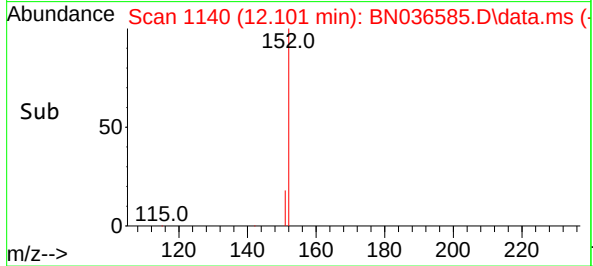
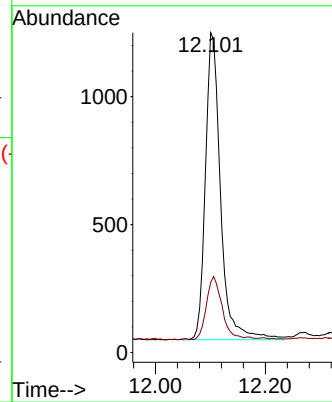
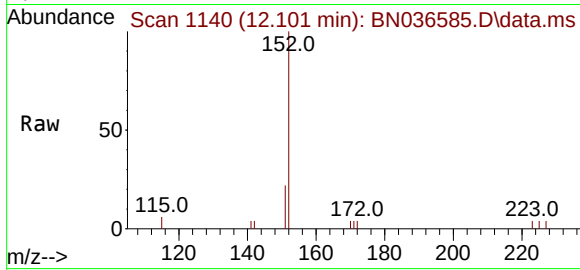




#11
2-Methylnaphthalene-d10
Concen: 0.309 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

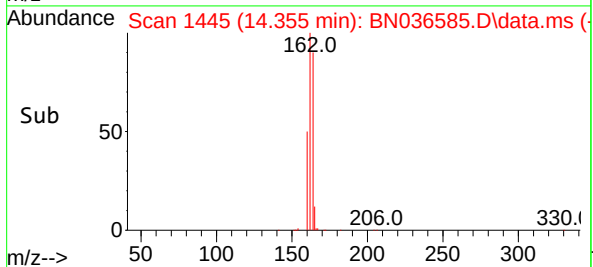
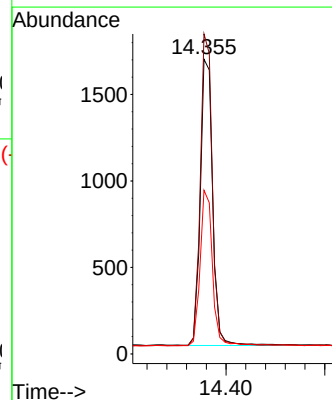
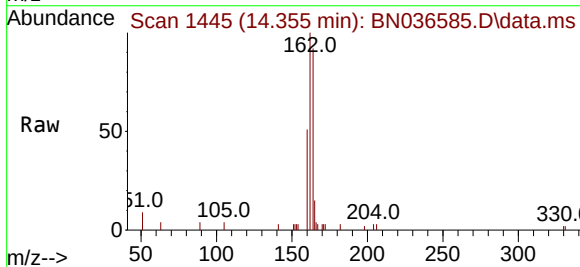
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

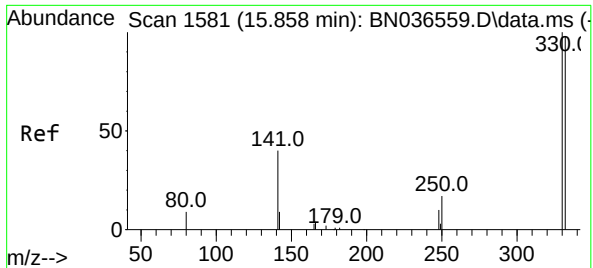
Tgt Ion:152 Resp: 2295
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion:164 Resp: 2872
Ion Ratio Lower Upper
164 100
162 108.6 84.2 126.2
160 55.5 42.2 63.2

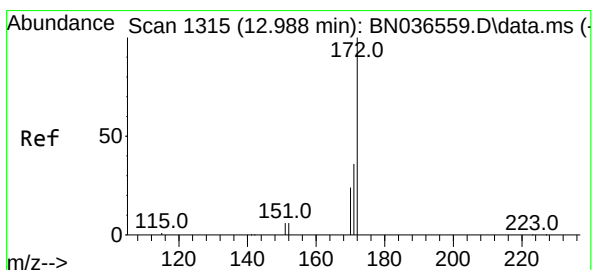
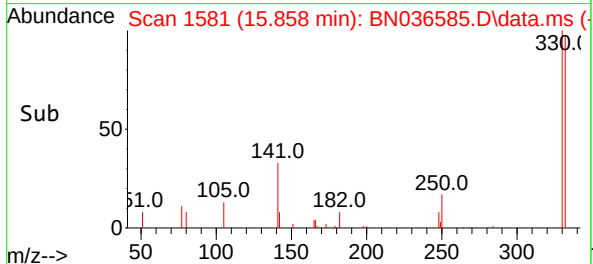
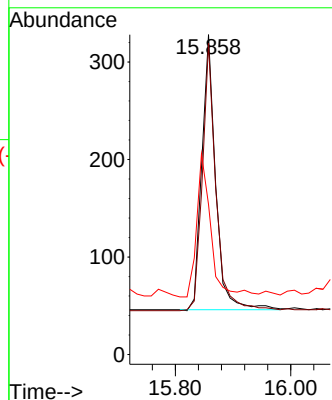
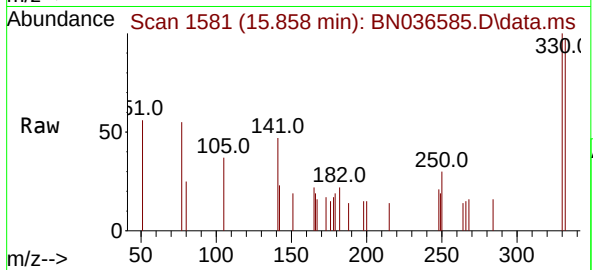




#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.858 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

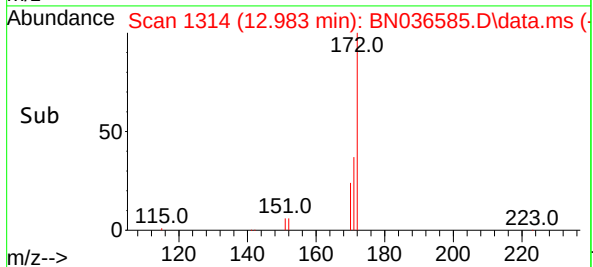
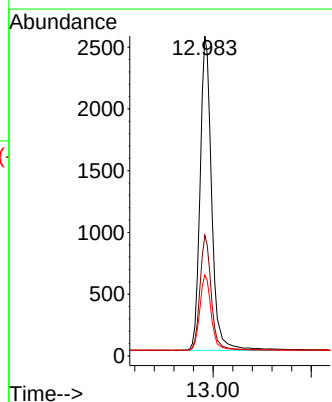
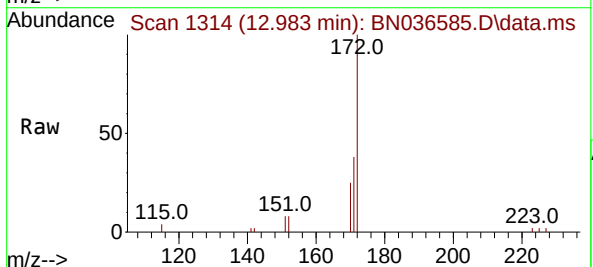
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

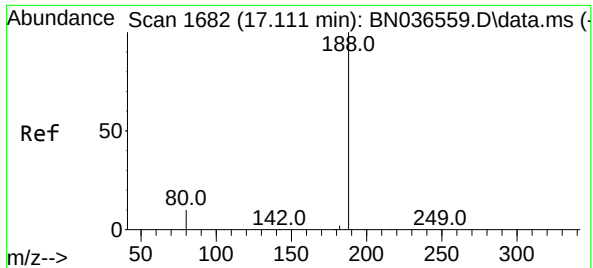
Tgt Ion:330 Resp: 469
Ion Ratio Lower Upper
330 100
332 96.2 75.2 112.8
141 53.7 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion:172 Resp: 5973
Ion Ratio Lower Upper
172 100
171 37.7 29.5 44.3
170 25.3 20.2 30.4

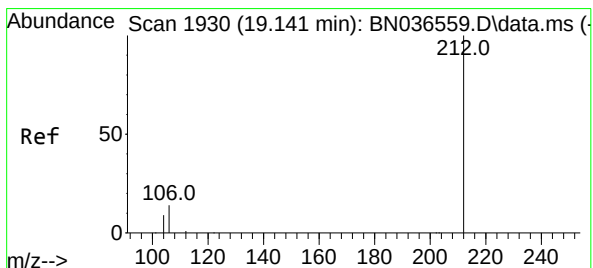
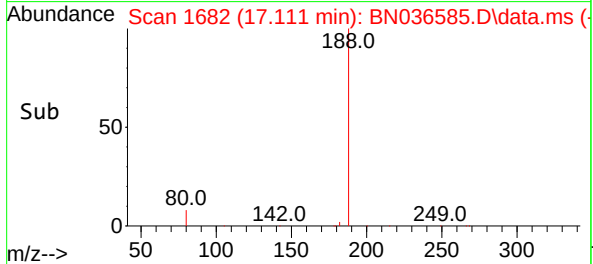
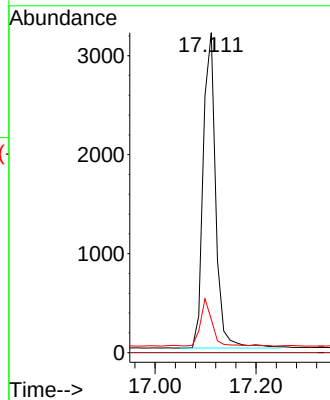
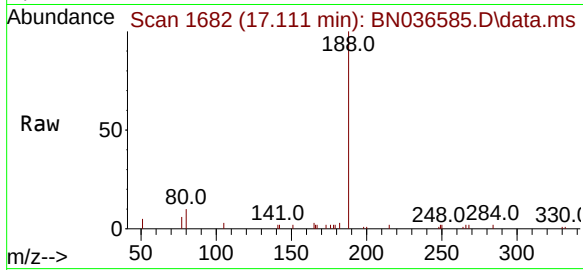




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

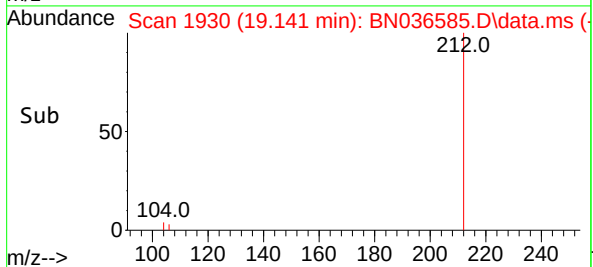
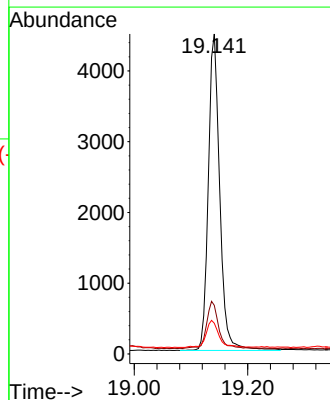
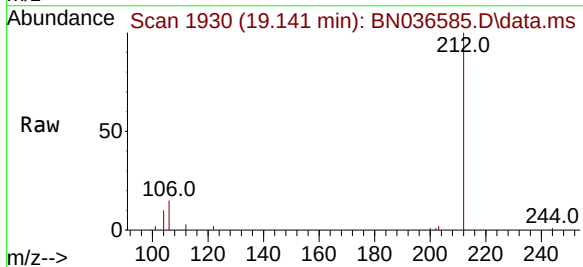
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

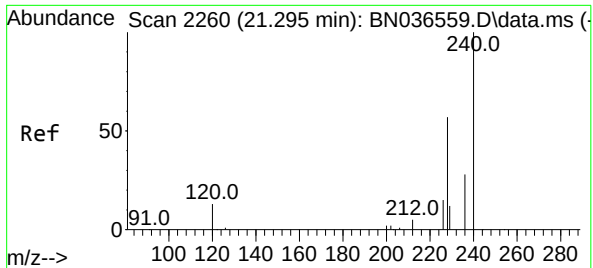
Tgt Ion:	188	Resp:	5521
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.441 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion:	212	Resp:	6239
Ion Ratio	Lower	Upper	
212	100		
106	15.7	11.8	17.6
104	9.5	7.3	10.9

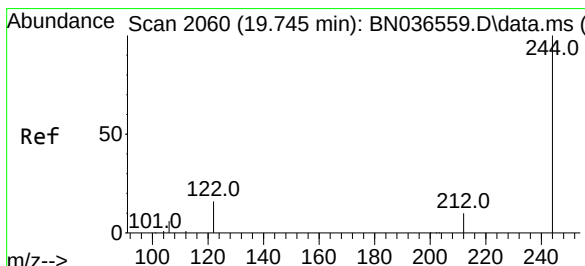
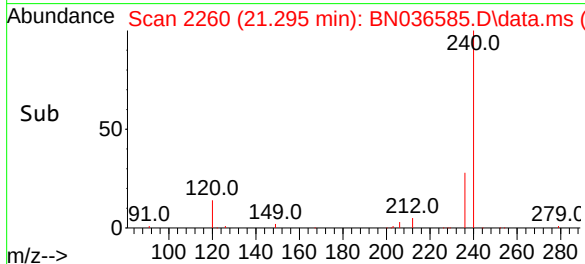
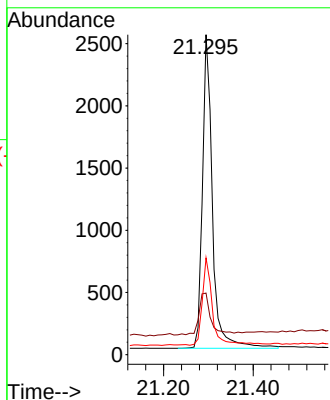
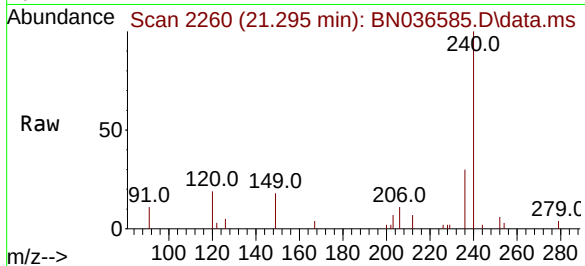




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

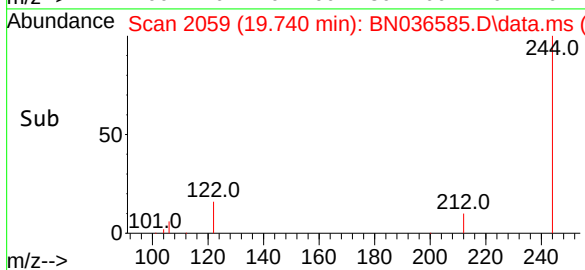
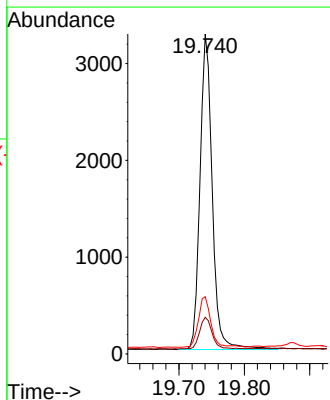
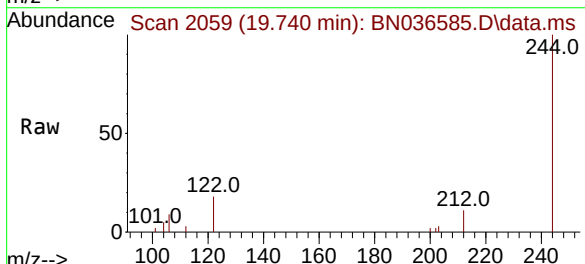
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

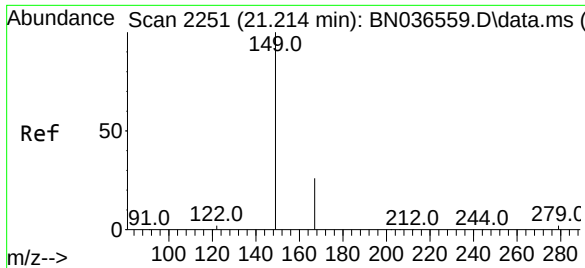
Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.2	14.6	22.0
236	30.2	24.1	36.1



#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.5	9.6	14.4
122	17.9	13.9	20.9

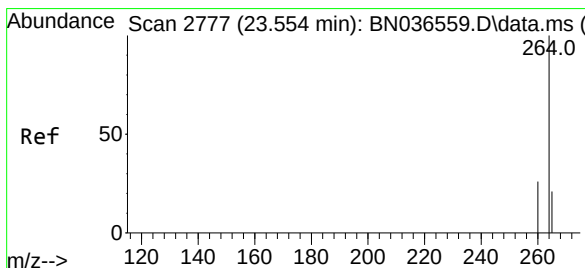
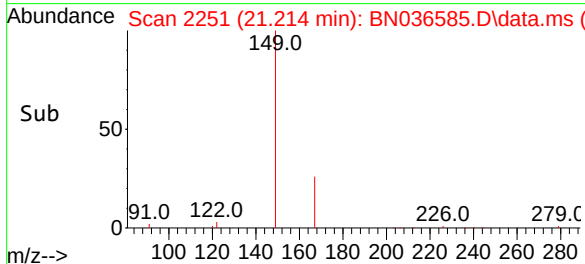
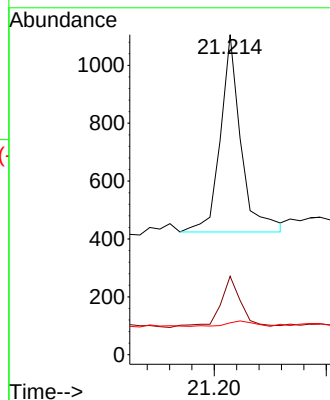
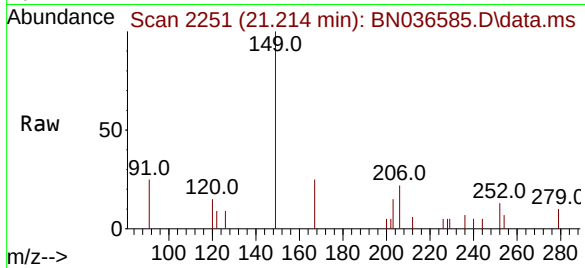




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.090 ng
RT: 21.214 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

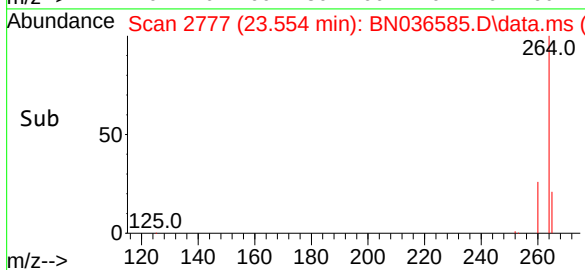
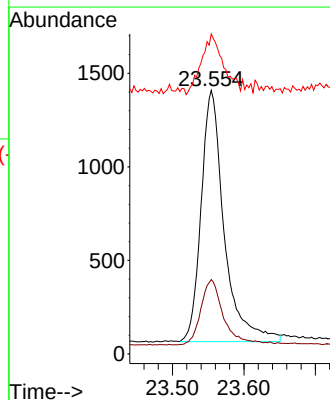
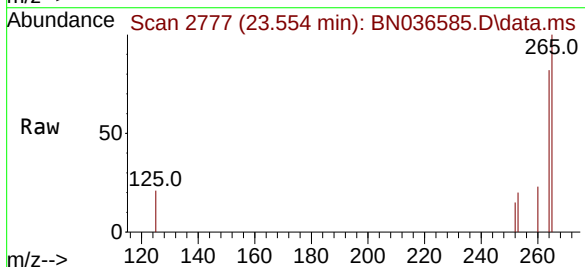
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307

Tgt Ion:149 Resp: 870
Ion Ratio Lower Upper
149 100
167 27.0 20.7 31.1
279 3.4 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. -0.000 min
Lab File: BN036585.D
Acq: 11 Mar 2025 17:21

Tgt Ion:264 Resp: 3017
Ion Ratio Lower Upper
264 100
260 28.3 22.6 33.8
265 121.4 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D1-20250307DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-16DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN036597.D	2	03/10/25 11:35	03/12/25 12:52	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.50	D	0.15	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1990		7.724			
1146-65-2	Naphthalene-d8	4780		10.509			
15067-26-2	Acenaphthene-d10	2900		14.355			
1517-22-2	Phenanthrene-d10	5980		17.111			
1719-03-5	Chrysene-d12	4270		21.295			
1520-96-3	Perylene-d12	3190		23.548			

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\BN031225\
Data File : BN036597.D
Acq On : 12 Mar 2025 12:52
Operator : RC/JU
Sample : Q1531-16DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

Quant Time: Mar 12 13:27:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

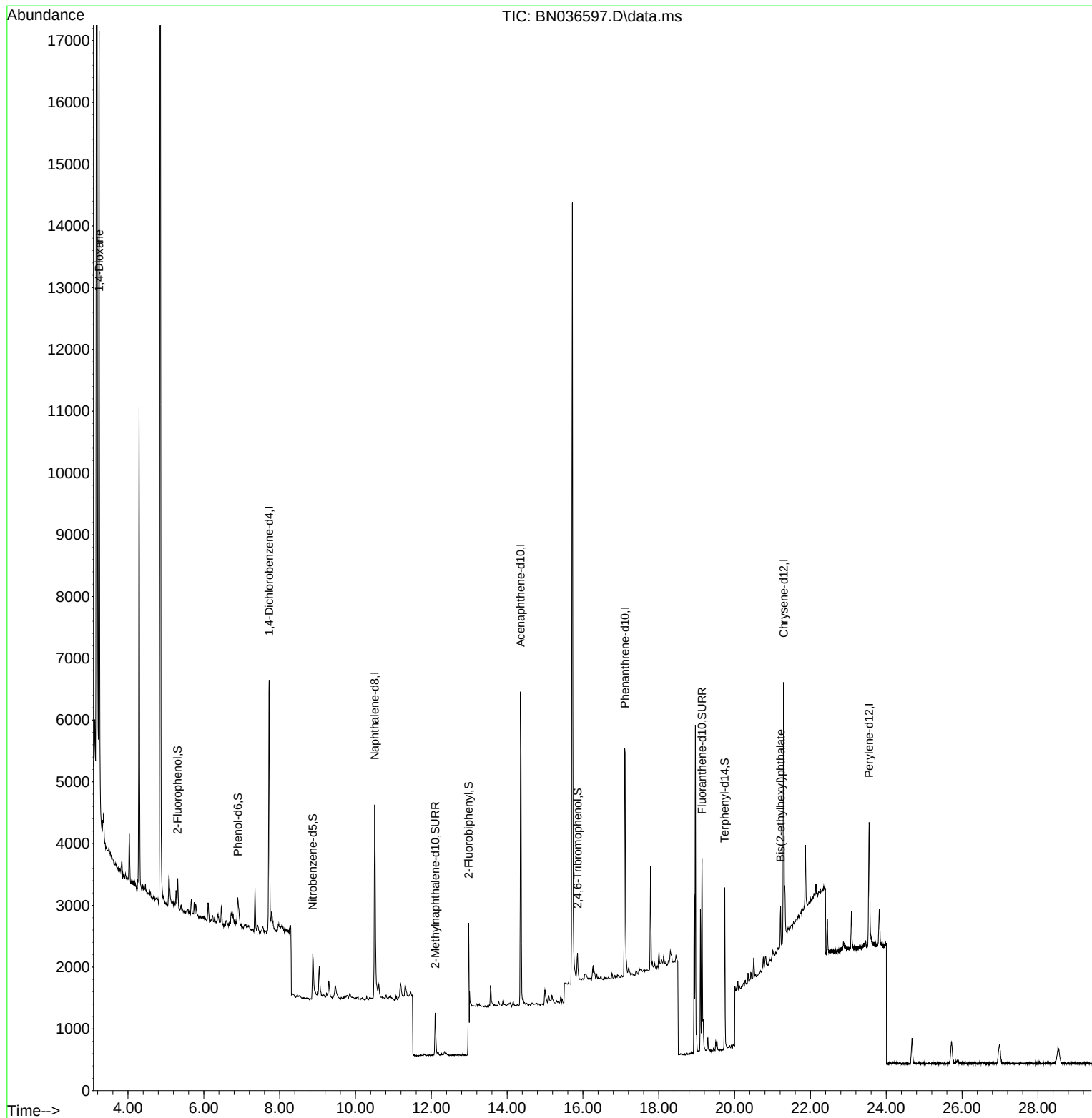
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1986	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4780	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2899	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5979	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4274	0.400	ng	0.00
35) Perylene-d12	23.548	264	3192	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	344	0.074	ng	0.00
5) Phenol-d6	6.901	99	444	0.078	ng	0.00
8) Nitrobenzene-d5	8.875	82	736	0.142	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	1137	0.160	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	263	0.200	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	2930	0.174	ng	0.00
27) Fluoranthene-d10	19.141	212	3639	0.237	ng	0.00
31) Terphenyl-d14	19.740	244	2515	0.246	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	6750	3.064	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	687	0.065	ng	99

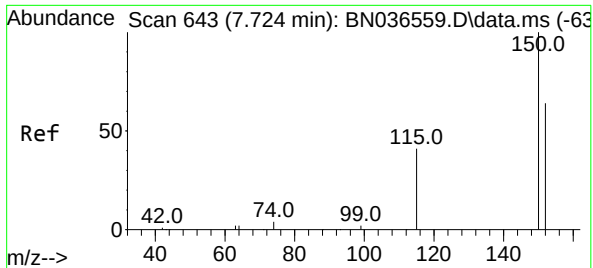
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036597.D
Acq On : 12 Mar 2025 12:52
Operator : RC/JU
Sample : Q1531-16DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

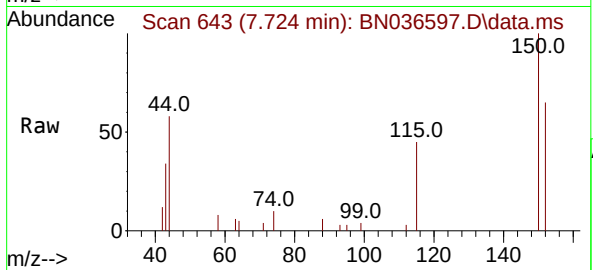
Quant Time: Mar 12 13:27:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



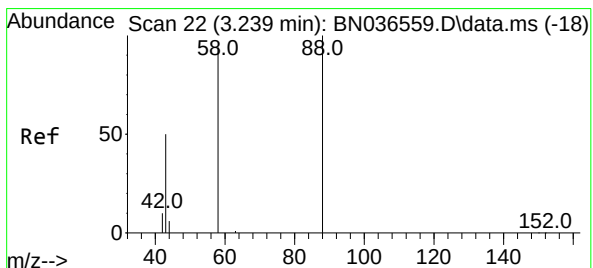
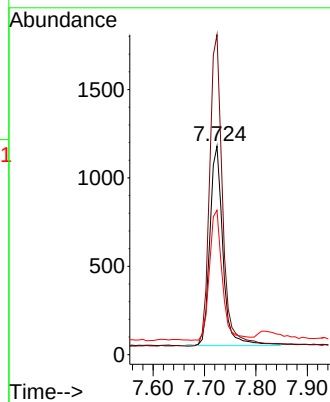
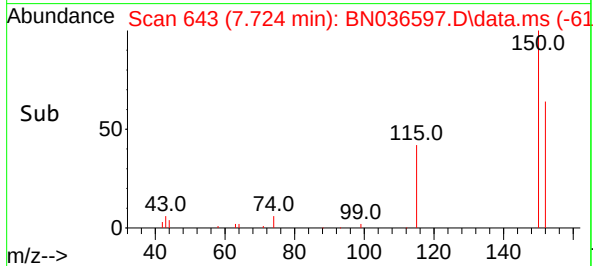


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

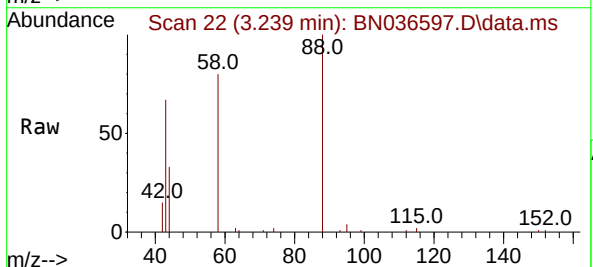
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL



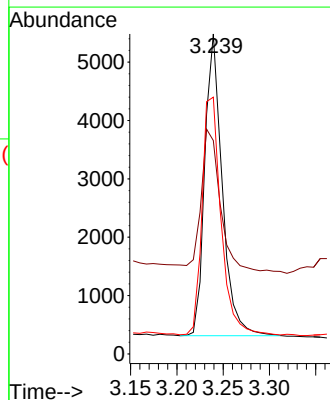
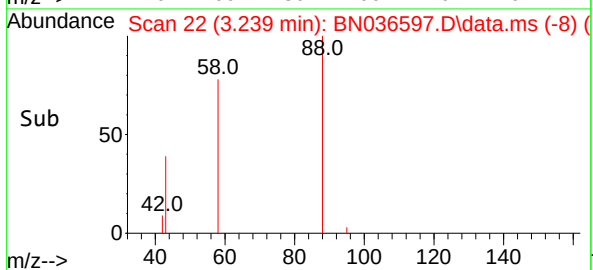
Tgt Ion:152 Resp: 1986
Ion Ratio Lower Upper
152 100
150 153.5 123.7 185.5
115 69.3 54.3 81.5

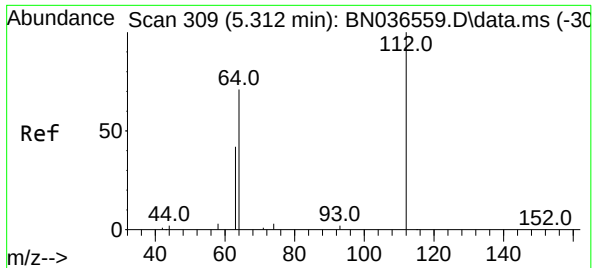


#2
1,4-Dioxane
Concen: 3.064 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52



Tgt Ion: 88 Resp: 6750
Ion Ratio Lower Upper
88 100
43 51.1 37.8 56.8
58 86.3 67.4 101.2

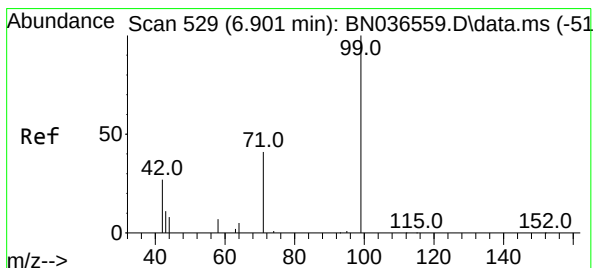
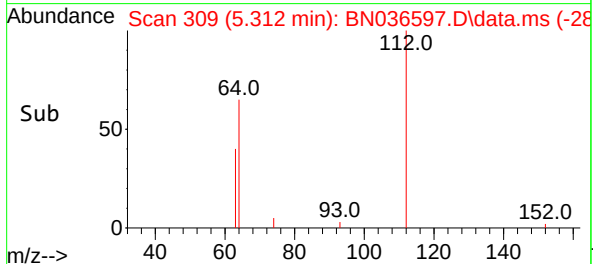
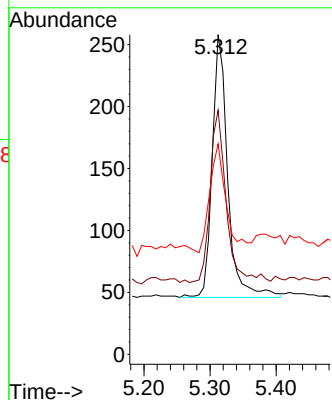
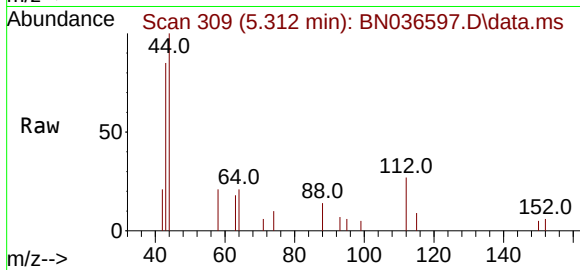




#4
2-Fluorophenol
Concen: 0.074 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

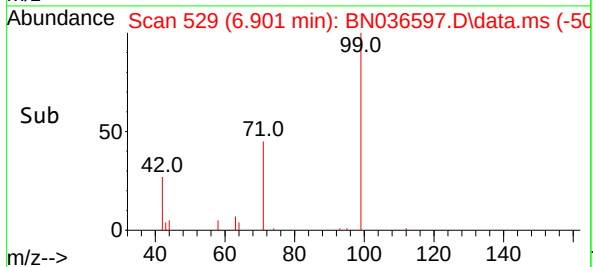
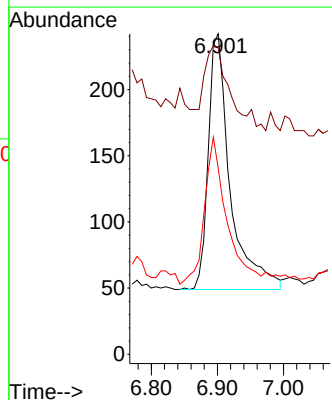
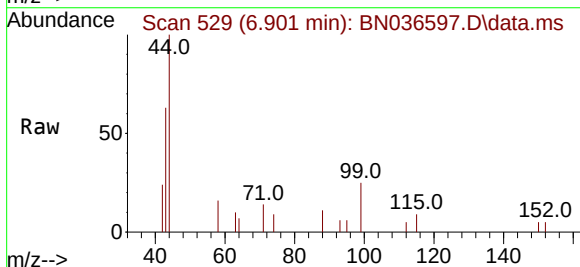
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

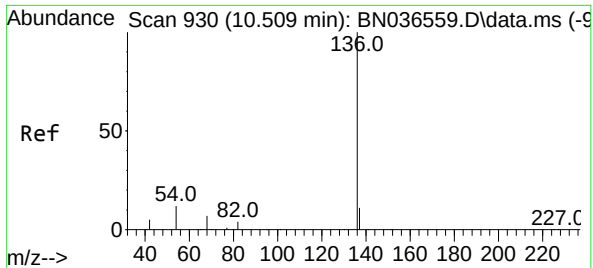
Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.1	79.7
63	43.6	31.8	47.8



#5
Phenol-d6
Concen: 0.078 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion	Ratio	Lower	Upper
99	100		
42	39.4	26.5	39.7
71	57.9	34.1	51.1

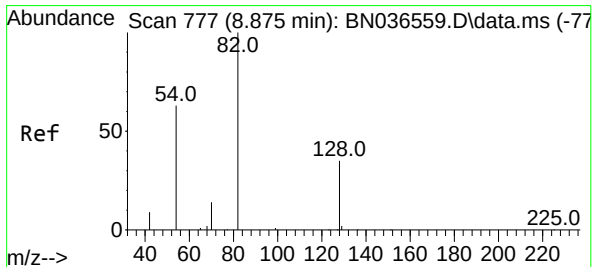
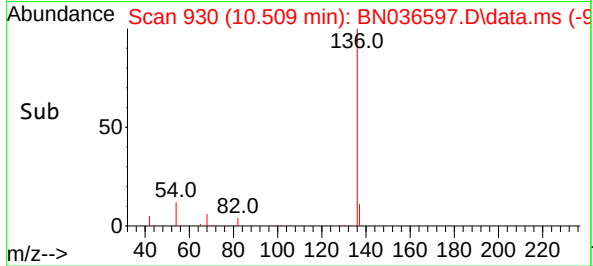
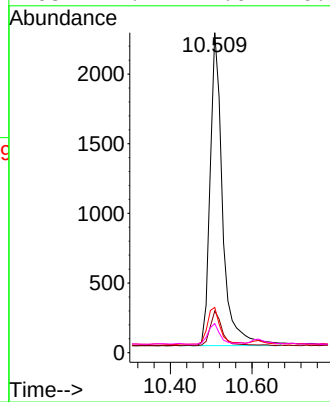
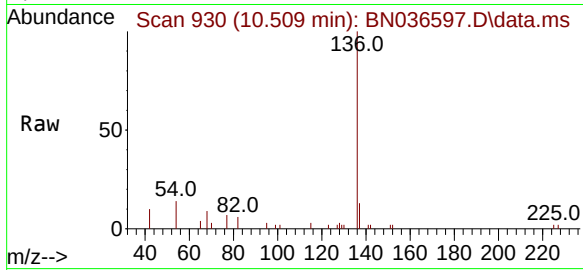




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

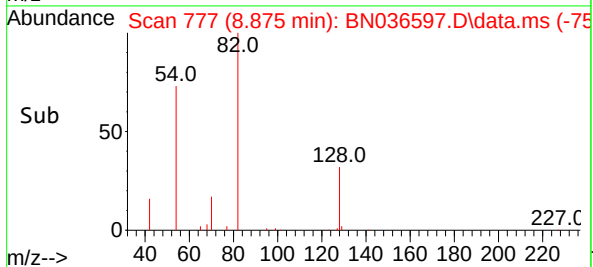
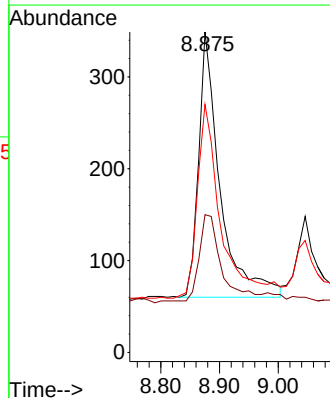
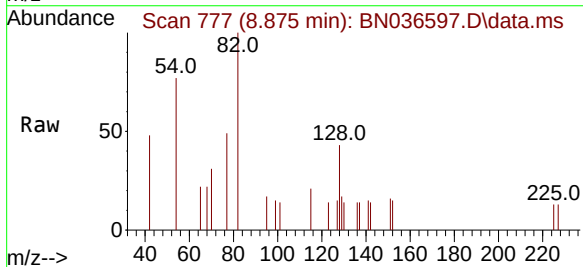
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

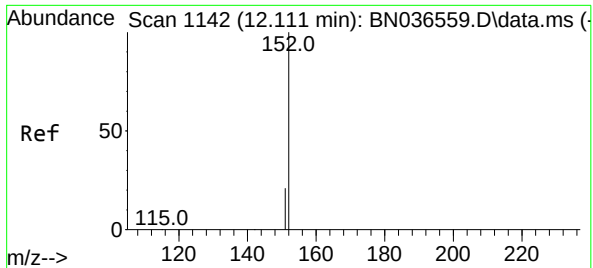
Tgt Ion:	136	Resp:	4780
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.1	11.5	17.3
68	9.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.142 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion:	82	Resp:	736
Ion	Ratio	Lower	Upper
82	100		
128	43.0	30.6	45.8
54	77.4	52.2	78.4

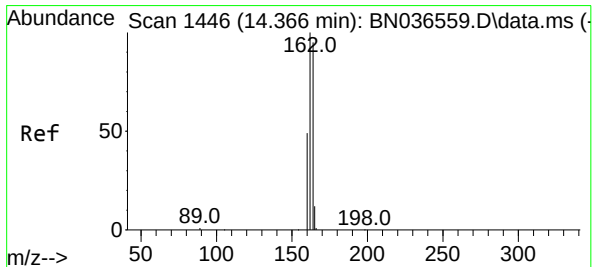
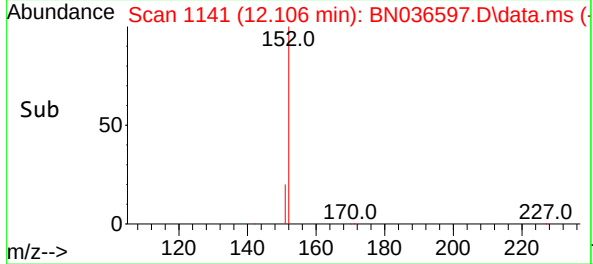
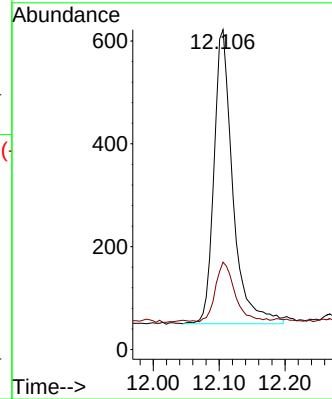
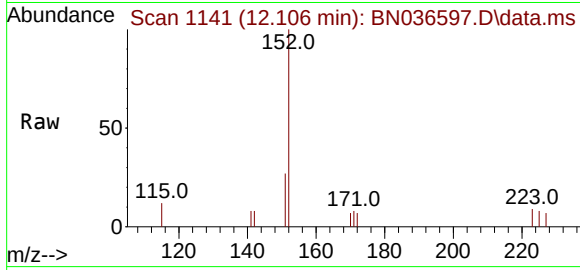




#11
2-Methylnaphthalene-d10
Concen: 0.160 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

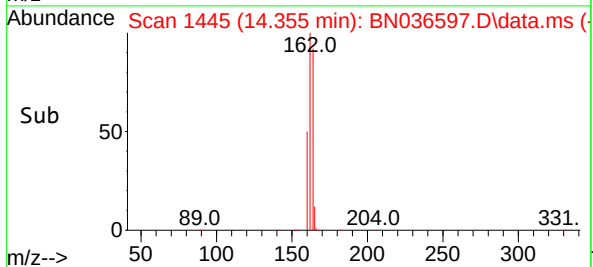
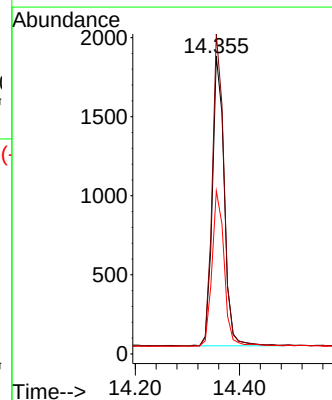
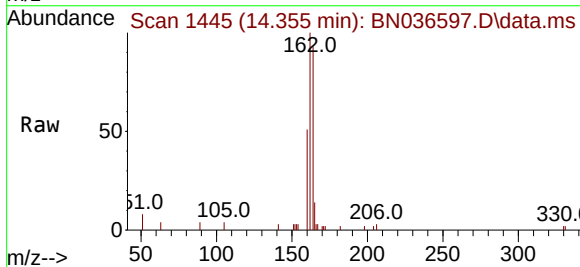
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

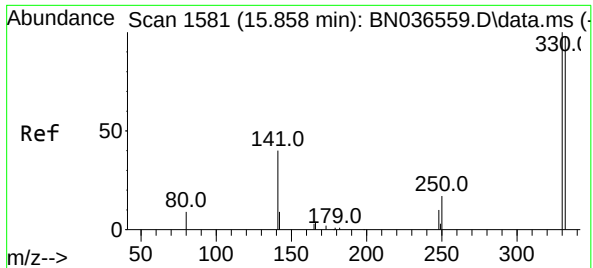
Tgt Ion:152 Resp: 1137
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion:164 Resp: 2899
Ion Ratio Lower Upper
164 100
162 107.5 84.2 126.2
160 54.8 42.2 63.2

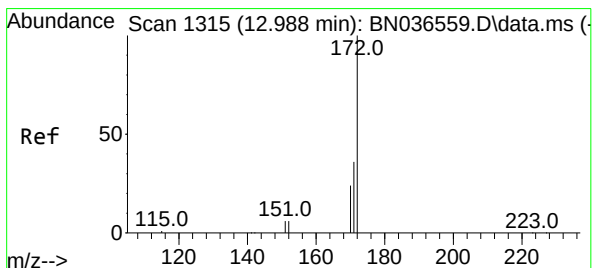
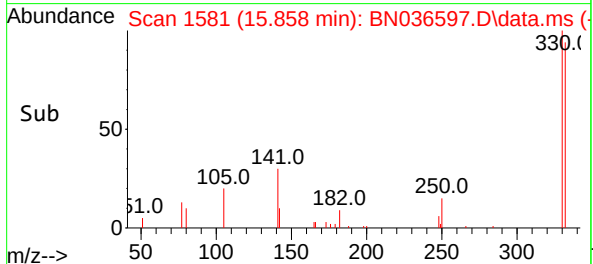
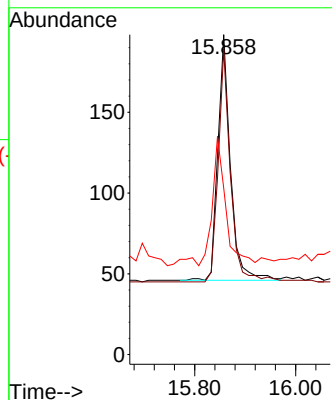
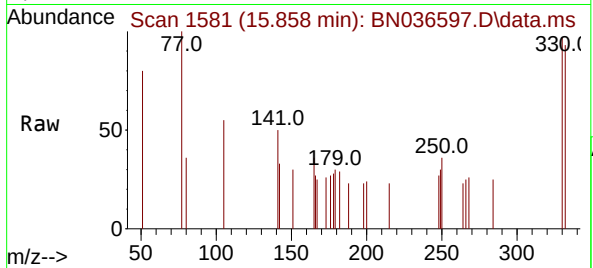




#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

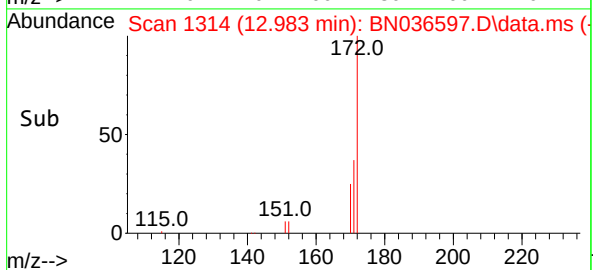
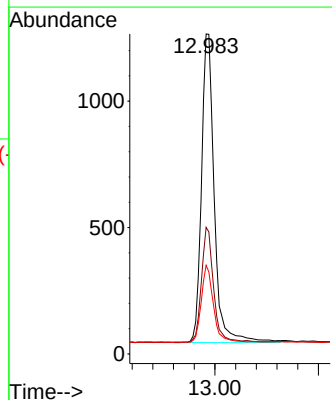
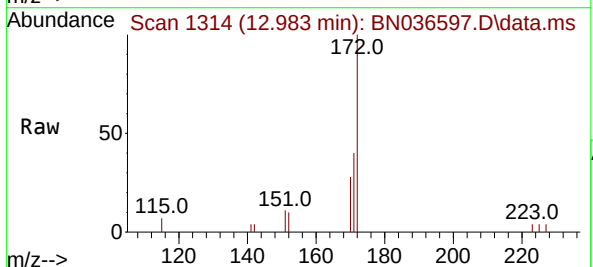
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

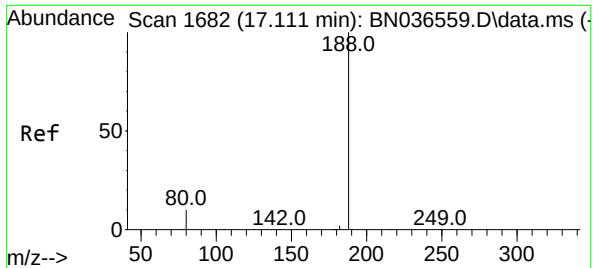
Tgt Ion:330 Resp: 263
Ion Ratio Lower Upper
330 100
332 92.0 75.2 112.8
141 55.5 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.174 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion:172 Resp: 2930
Ion Ratio Lower Upper
172 100
171 39.6 29.5 44.3
170 27.7 20.2 30.4

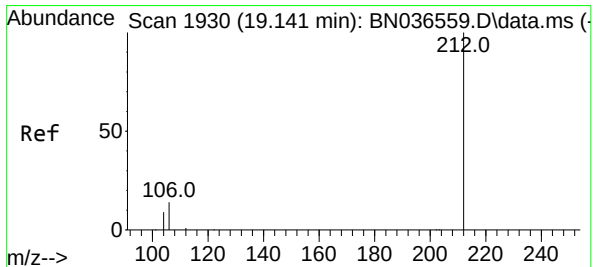
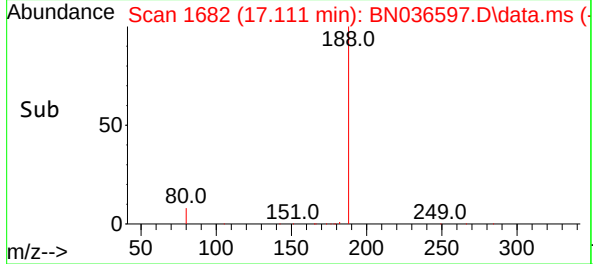
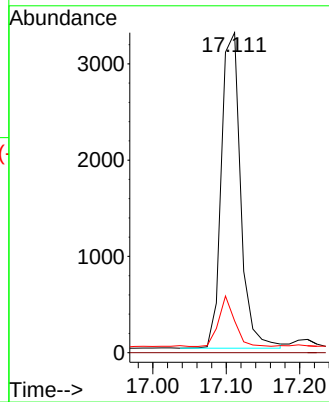
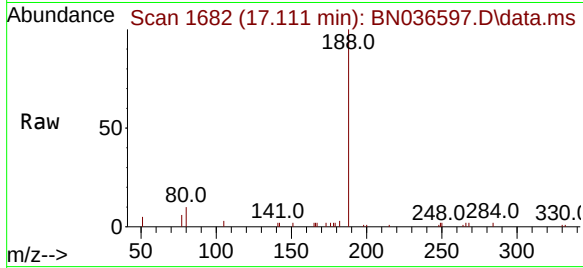




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

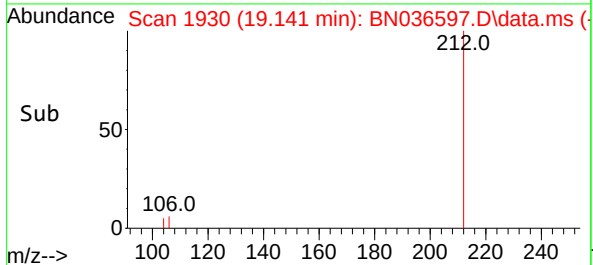
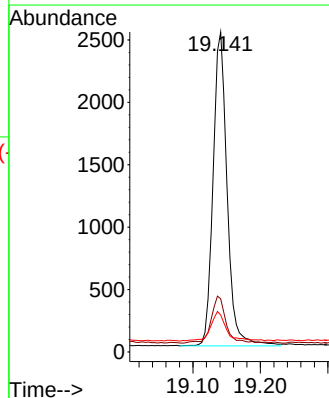
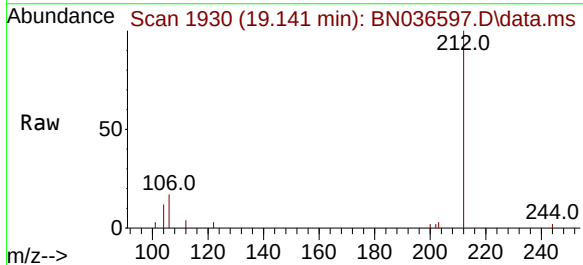
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

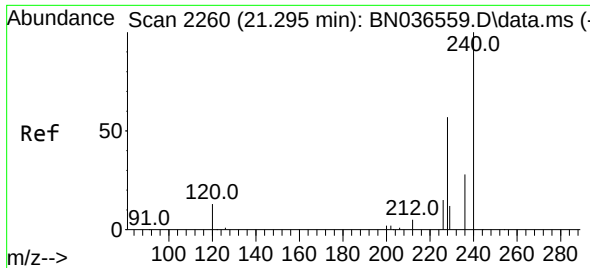
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2



#27
Fluoranthene-d10
Concen: 0.237 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.7	11.8	17.6
104	10.6	7.3	10.9

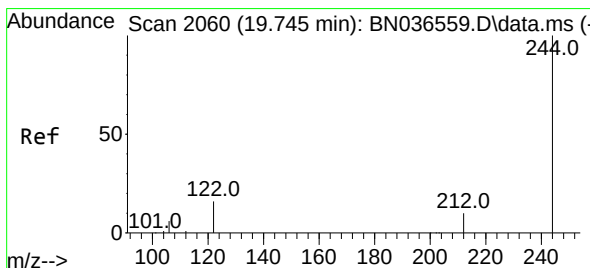
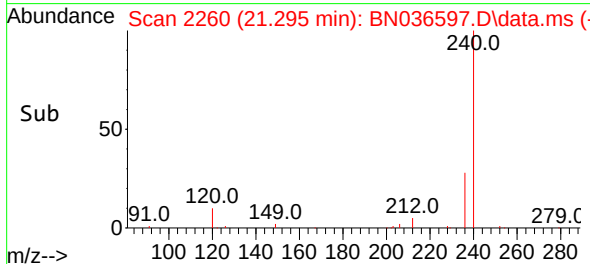
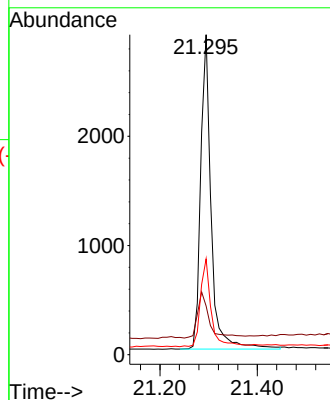
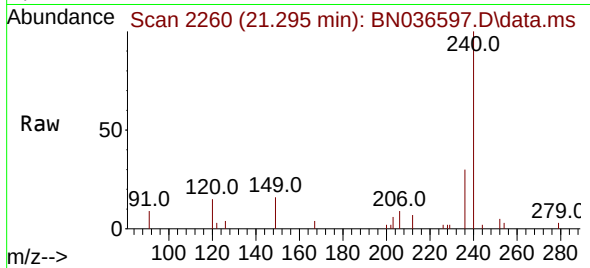




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

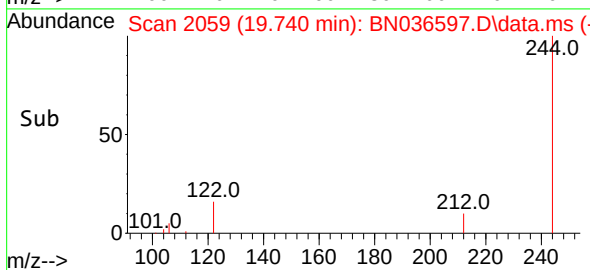
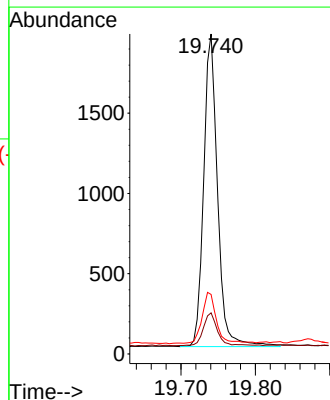
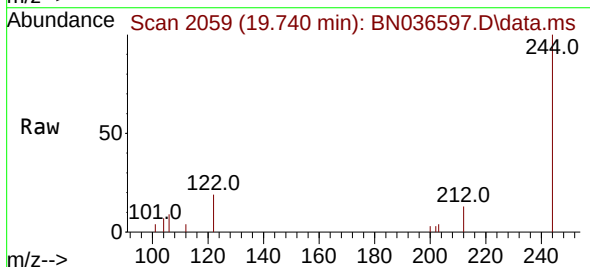
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

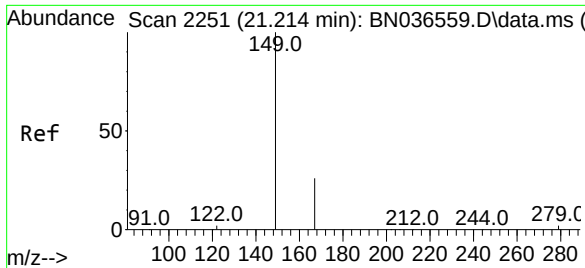
Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.2	14.6	22.0
236	30.0	24.1	36.1



#31
Terphenyl-d14
Concen: 0.246 ng
RT: 19.740 min Scan# 2059
Delta R.T. -0.005 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.8	9.6	14.4
122	18.6	13.9	20.9

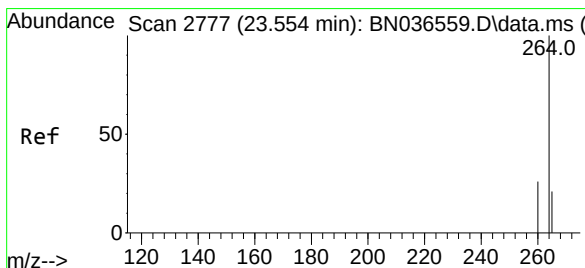
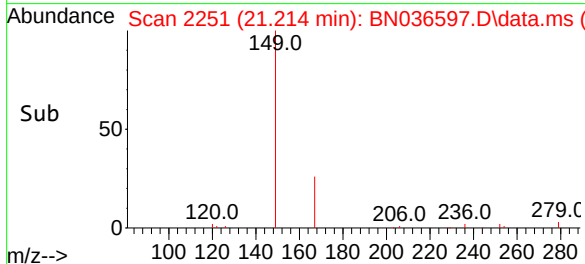
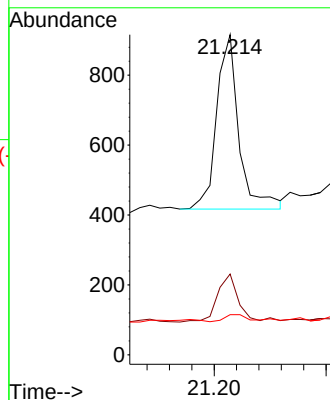
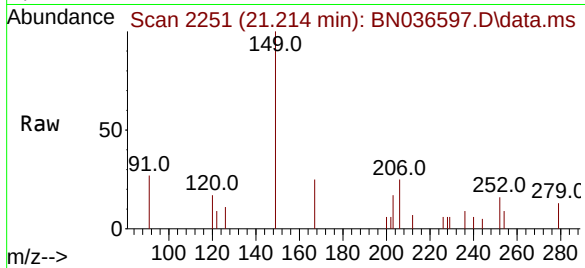




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.065 ng
RT: 21.214 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

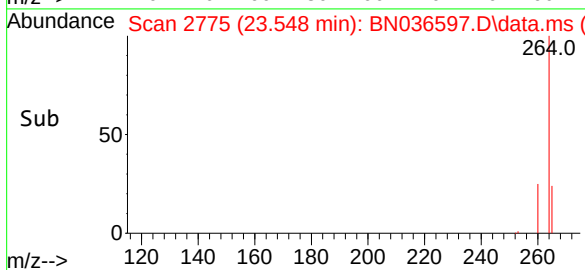
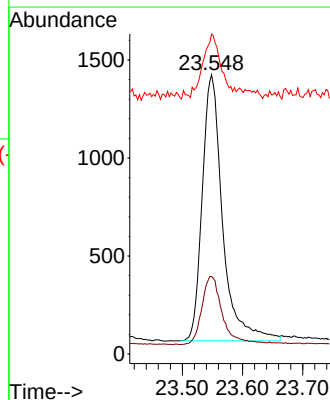
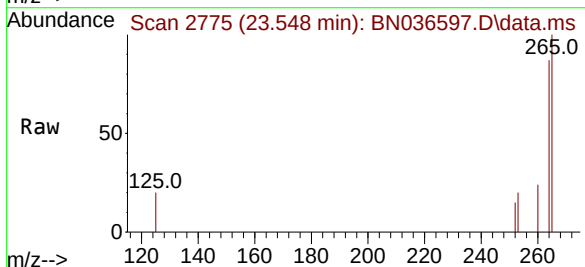
Instrument :
BNA_N
ClientSampleId :
RE125D1-20250307DL

Tgt Ion:149 Resp: 687
Ion Ratio Lower Upper
149 100
167 25.3 20.7 31.1
279 4.2 3.6 5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 2775
Delta R.T. -0.006 min
Lab File: BN036597.D
Acq: 12 Mar 2025 12:52

Tgt Ion:264 Resp: 3192
Ion Ratio Lower Upper
264 100
260 27.7 22.6 33.8
265 114.6 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D2-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-17	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
BN036586.D	1	03/10/25 11:35	03/11/25 17:57	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080	7.724				
1146-65-2	Naphthalene-d8	4660	10.509				
15067-26-2	Acenaphthene-d10	2830	14.366				
1517-22-2	Phenanthrene-d10	5540	17.111				
1719-03-5	Chrysene-d12	3780	21.304				
1520-96-3	Perylene-d12	3020	23.554				

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\BN031125\
Data File : BN036586.D
Acq On : 11 Mar 2025 17:57
Operator : RC/JU
Sample : Q1531-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

Quant Time: Mar 11 18:19:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

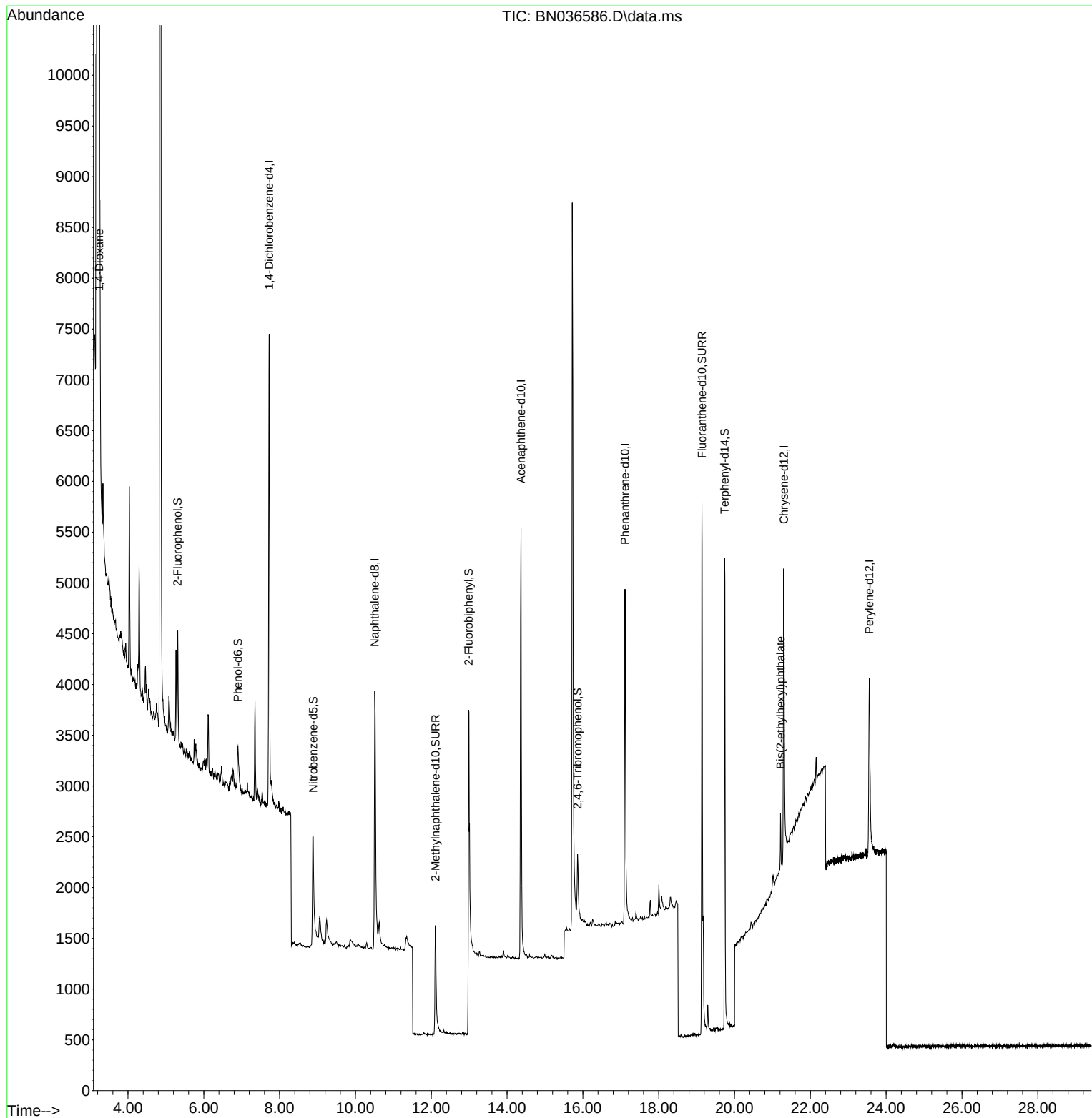
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2081	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4659	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2830	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5539	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3781	0.400	ng	0.00
35) Perylene-d12	23.554	264	3024	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	760	0.157	ng	0.00
5) Phenol-d6	6.901	99	464	0.077	ng	0.00
8) Nitrobenzene-d5	8.886	82	1519	0.300	ng	0.01
11) 2-Methylnaphthalene-d10	12.111	152	2284	0.330	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	482	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5327	0.324	ng	0.00
27) Fluoranthene-d10	19.141	212	6651	0.468	ng	0.00
31) Terphenyl-d14	19.740	244	4730	0.522	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	21171	9.171	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	600	0.064	ng	96

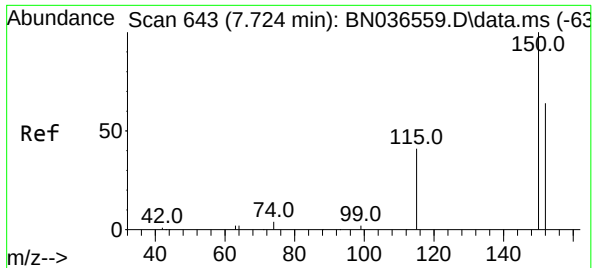
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036586.D
Acq On : 11 Mar 2025 17:57
Operator : RC/JU
Sample : Q1531-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

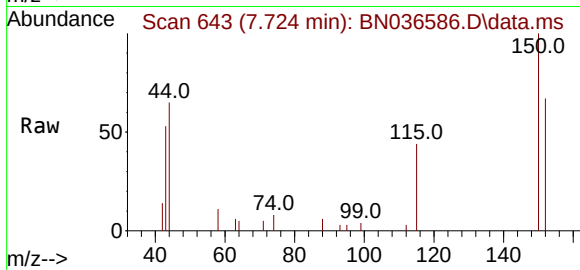
Quant Time: Mar 11 18:19:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



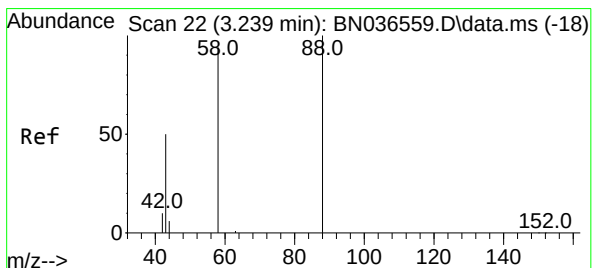
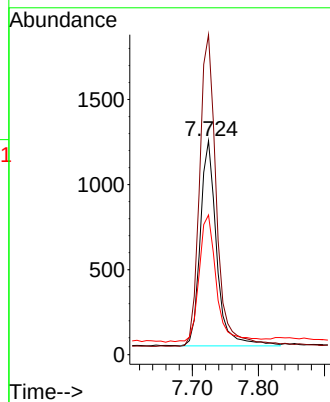
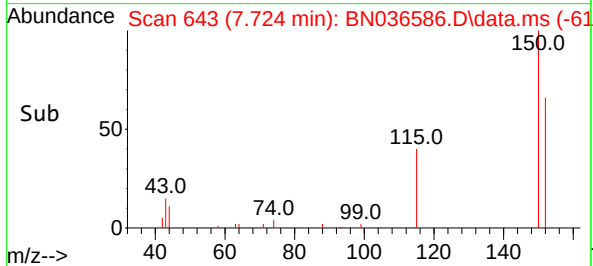


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

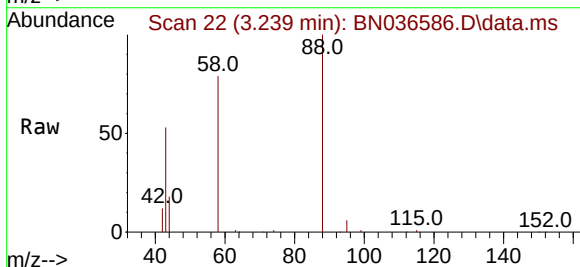
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307



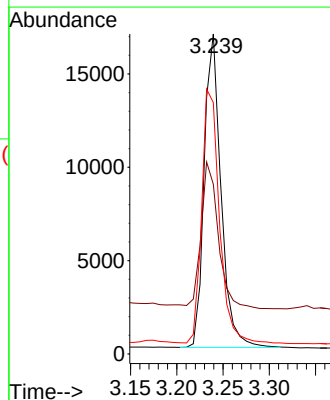
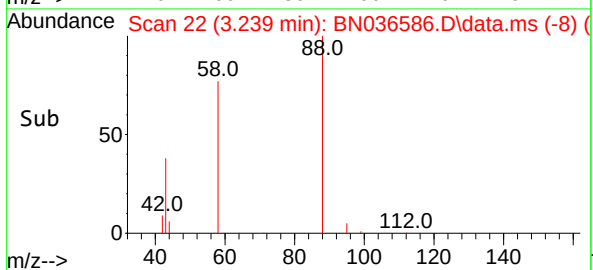
Tgt Ion:152 Resp: 2081
Ion Ratio Lower Upper
152 100
150 149.5 123.7 185.5
115 65.3 54.3 81.5

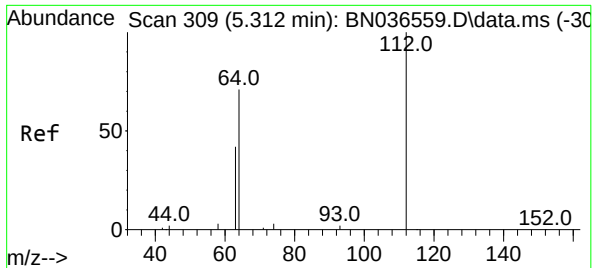


#2
1,4-Dioxane
Concen: 9.171 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57



Tgt Ion: 88 Resp: 21171
Ion Ratio Lower Upper
88 100
43 48.2 37.8 56.8
58 85.3 67.4 101.2

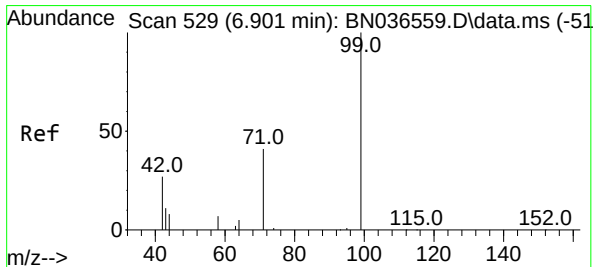
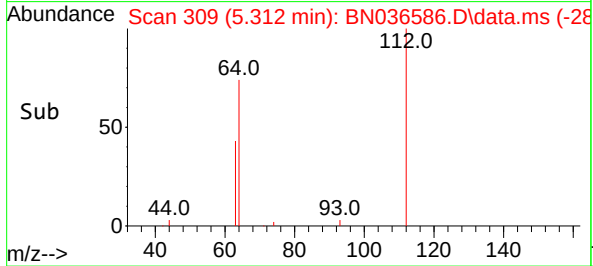
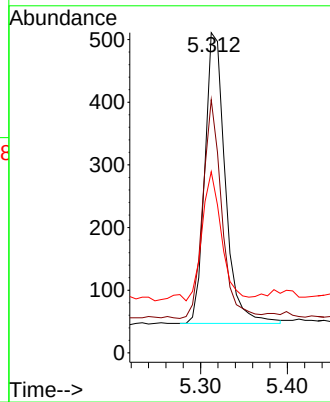
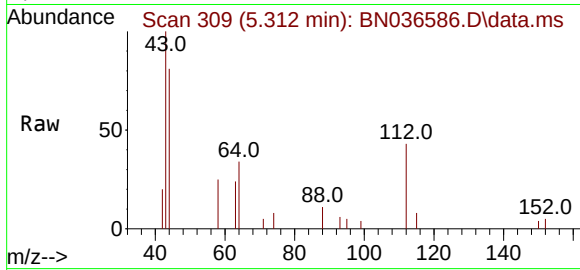




#4
2-Fluorophenol
Concen: 0.157 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

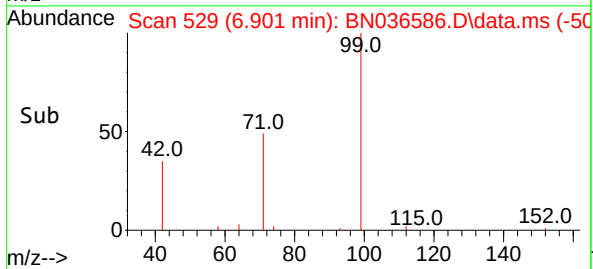
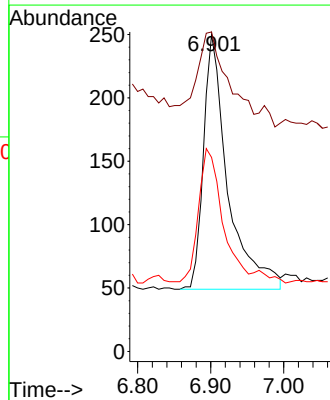
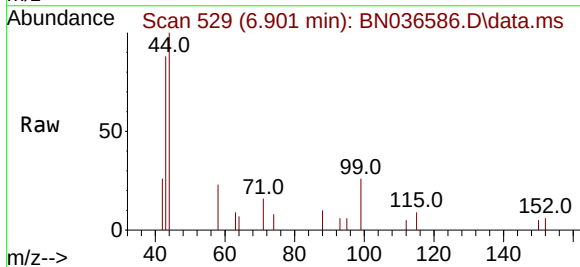
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

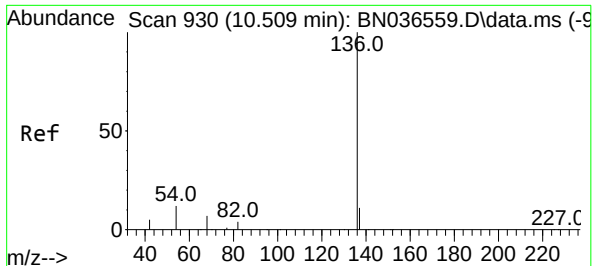
Tgt Ion:	112	Resp:	760
Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	43.4	31.8	47.8



#5
Phenol-d6
Concen: 0.077 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

Tgt Ion:	99	Resp:	464
Ion	Ratio	Lower	Upper
99	100		
42	39.9	26.5	39.7#
71	56.5	34.1	51.1#

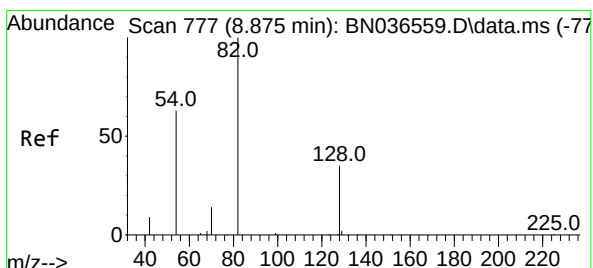
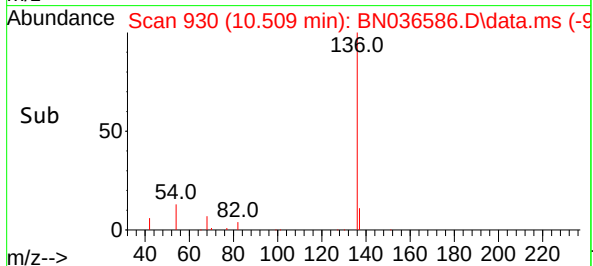
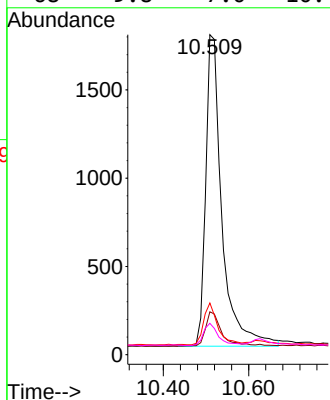
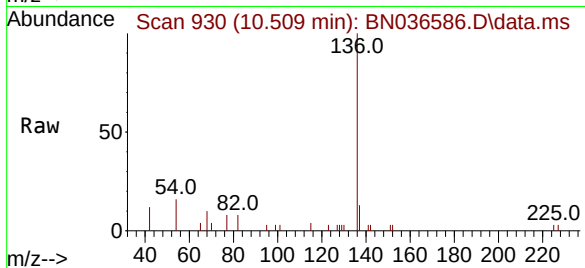




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

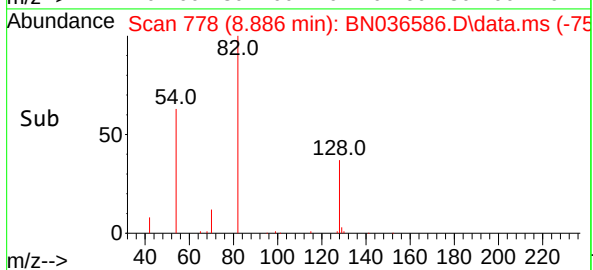
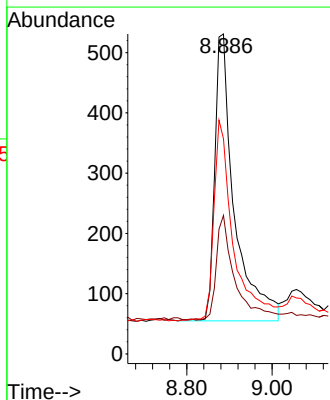
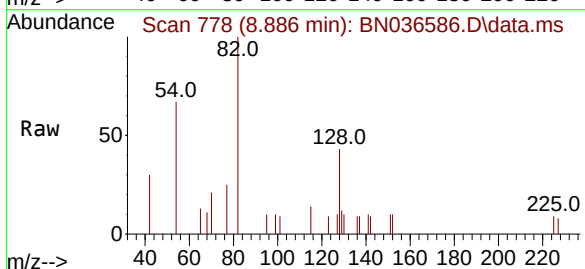
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

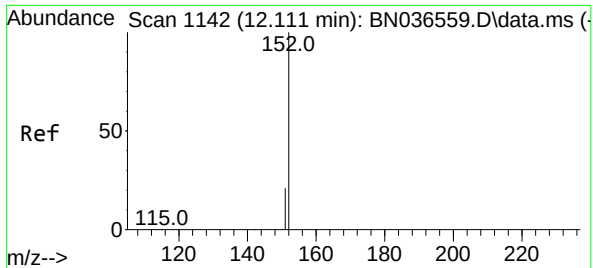
Tgt Ion:	136	Resp:	4659
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	16.2	11.5	17.3
68	9.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.300 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

Tgt Ion:	82	Resp:	1519
Ion	Ratio	Lower	Upper
82	100		
128	43.3	30.6	45.8
54	67.2	52.2	78.4

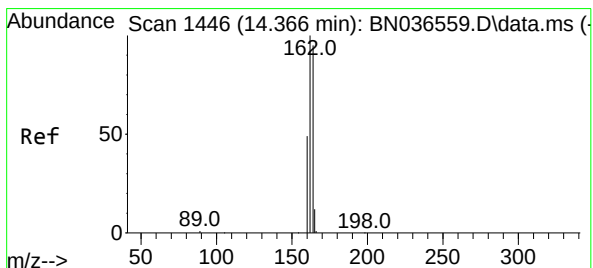
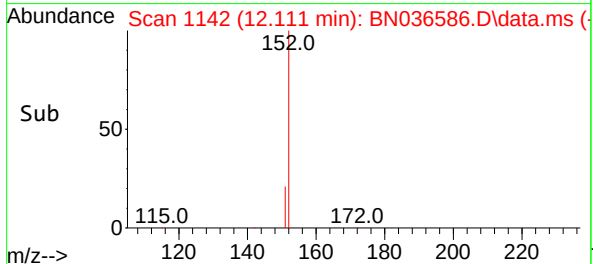
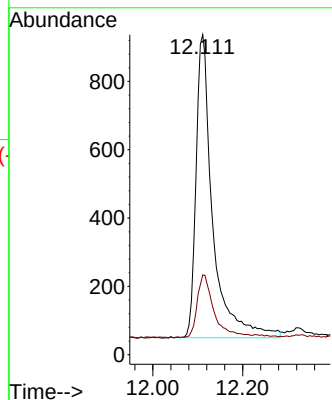
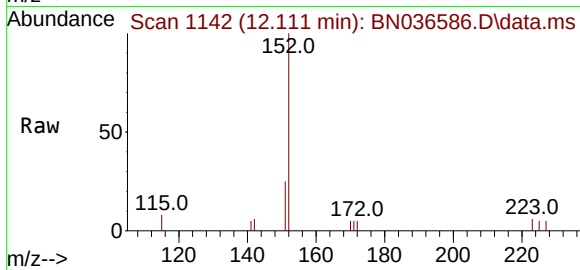




#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

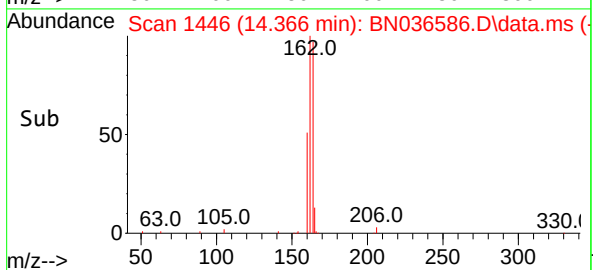
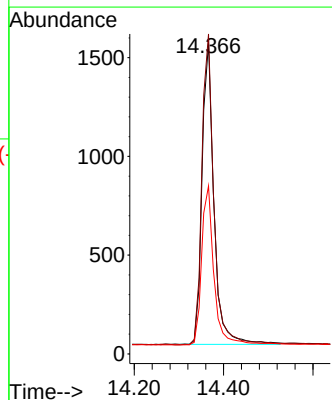
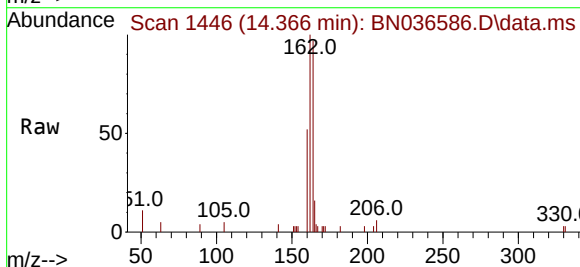
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

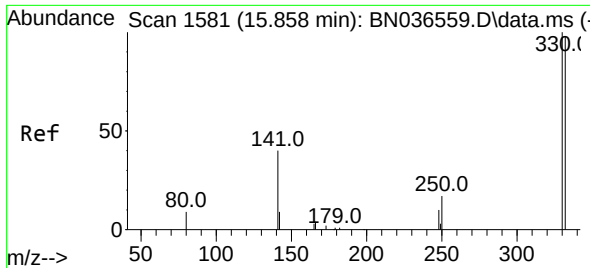
Tgt Ion:152 Resp: 2284
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

Tgt Ion:164 Resp: 2830
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 54.0 42.2 63.2

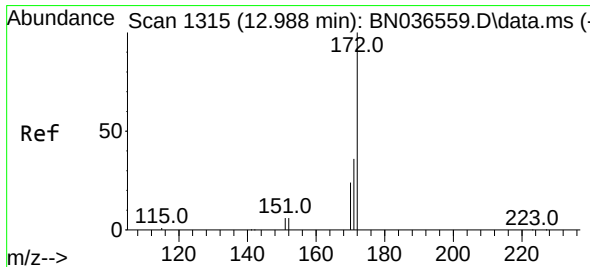
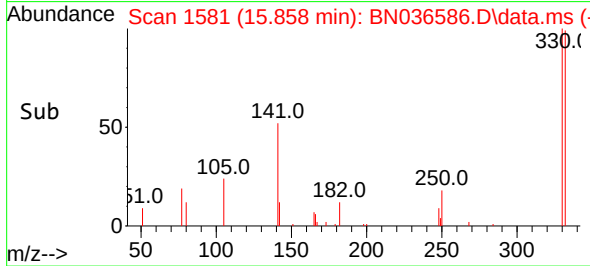
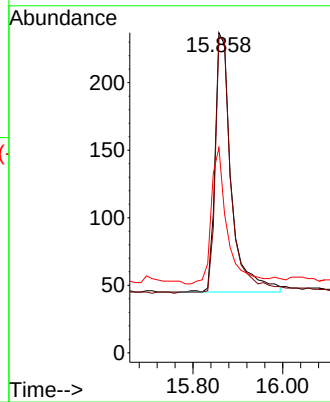
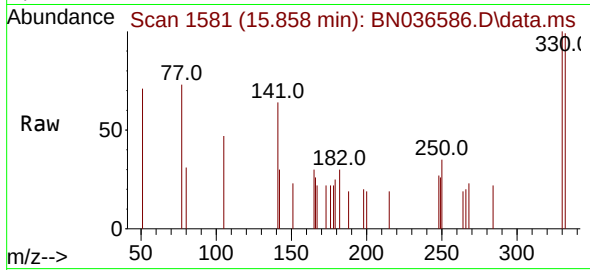




#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

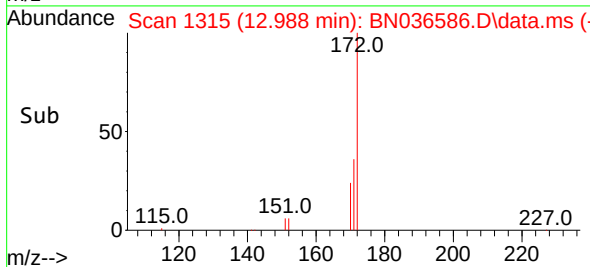
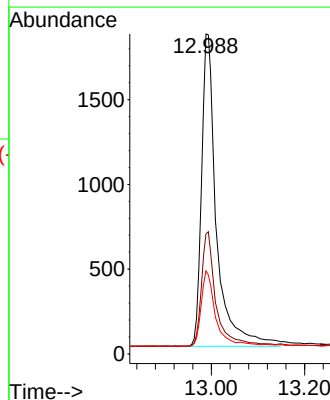
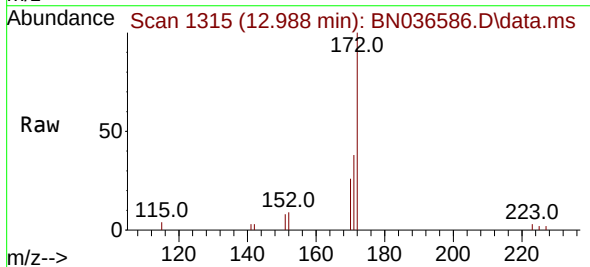
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

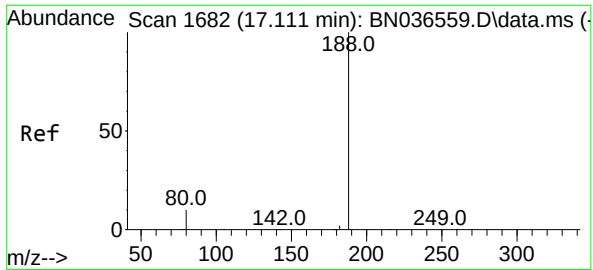
Tgt Ion:330 Resp: 482
Ion Ratio Lower Upper
330 100
332 95.9 75.2 112.8
141 51.7 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

Tgt Ion:172 Resp: 5327
Ion Ratio Lower Upper
172 100
171 37.5 29.5 44.3
170 26.0 20.2 30.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036586.D

Acq: 11 Mar 2025 17:57

Instrument :

BNA_N

ClientSampleId :

RE125D2-20250307

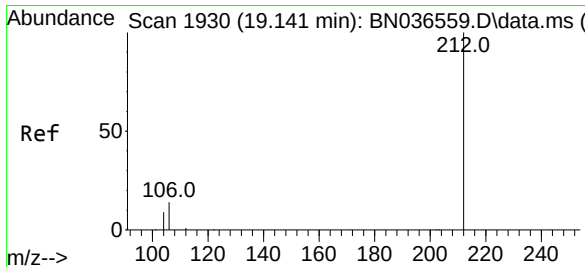
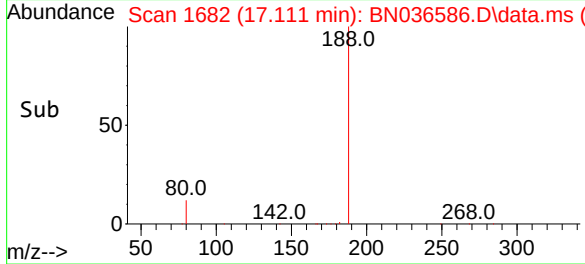
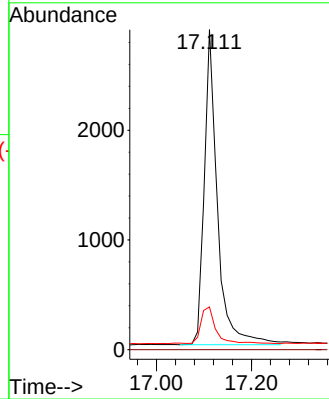
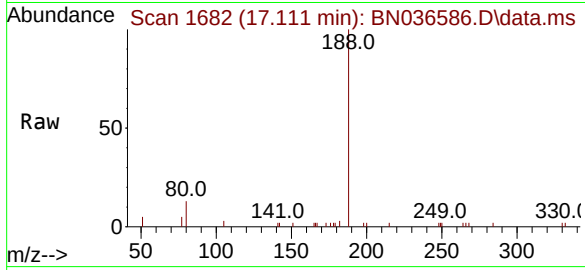
Tgt Ion:188 Resp: 5539

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 8.8 13.2#



#27

Fluoranthene-d10

Concen: 0.468 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036586.D

Acq: 11 Mar 2025 17:57

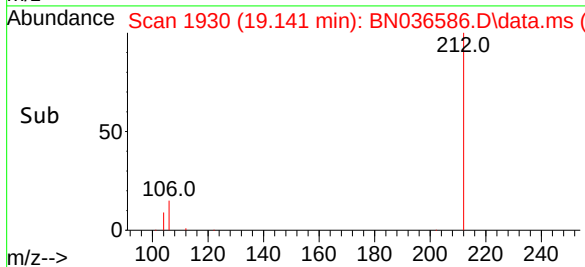
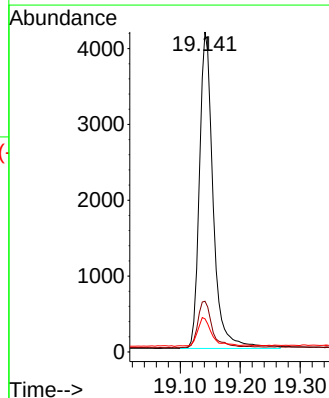
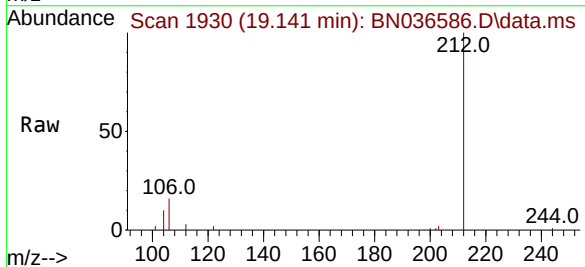
Tgt Ion:212 Resp: 6651

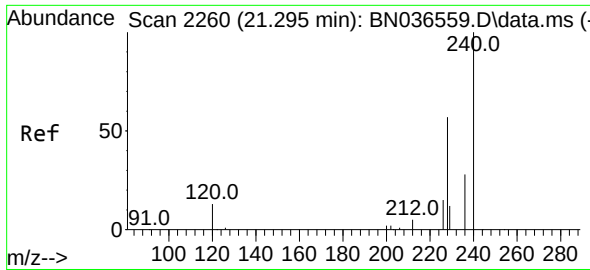
Ion Ratio Lower Upper

212 100

106 15.8 11.8 17.6

104 9.4 7.3 10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036586.D

Acq: 11 Mar 2025 17:57

Instrument :

BNA_N

ClientSampleId :

RE125D2-20250307

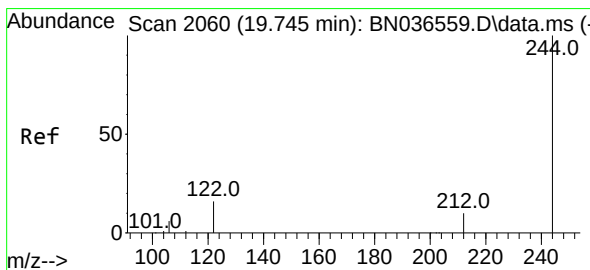
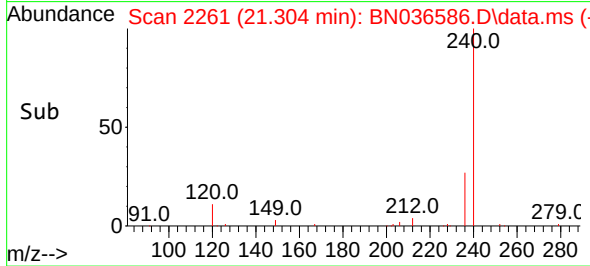
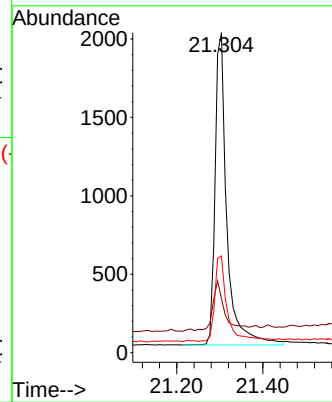
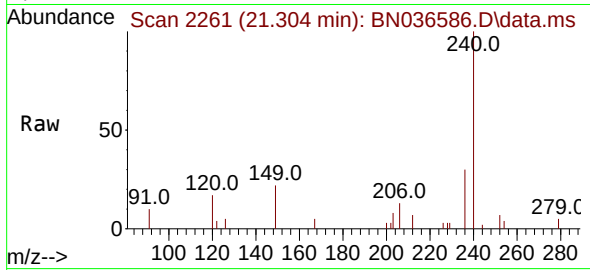
Tgt Ion:240 Resp: 3781

Ion Ratio Lower Upper

240 100

120 16.9 14.6 22.0

236 30.2 24.1 36.1



#31

Terphenyl-d14

Concen: 0.522 ng

RT: 19.740 min Scan# 2059

Delta R.T. -0.004 min

Lab File: BN036586.D

Acq: 11 Mar 2025 17:57

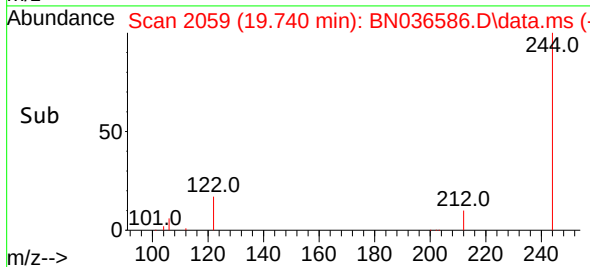
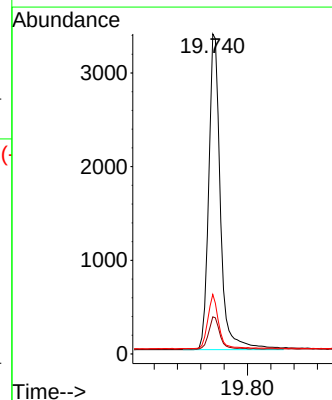
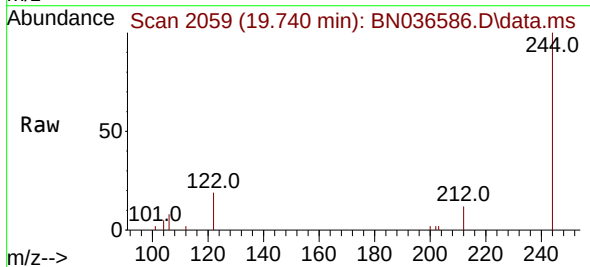
Tgt Ion:244 Resp: 4730

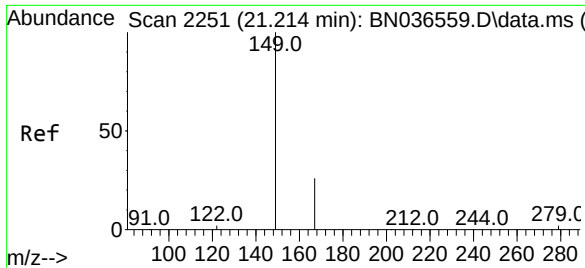
Ion Ratio Lower Upper

244 100

212 11.6 9.6 14.4

122 18.6 13.9 20.9

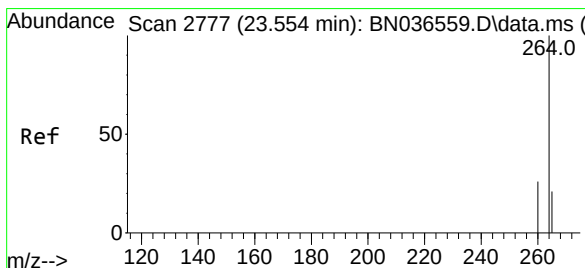
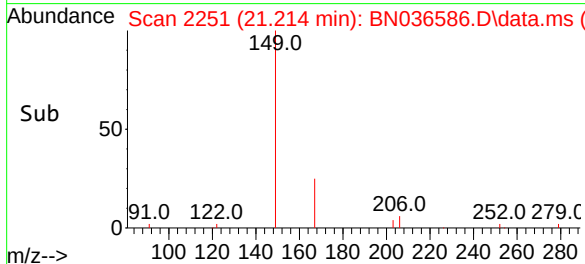
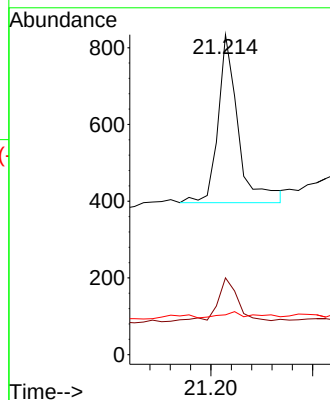
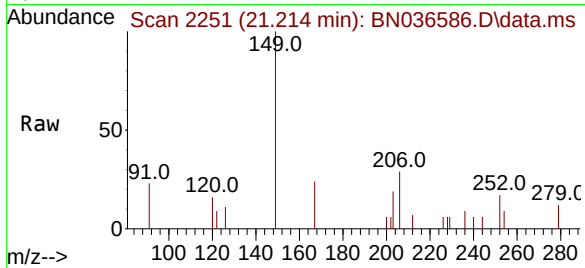




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.064 ng
RT: 21.214 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

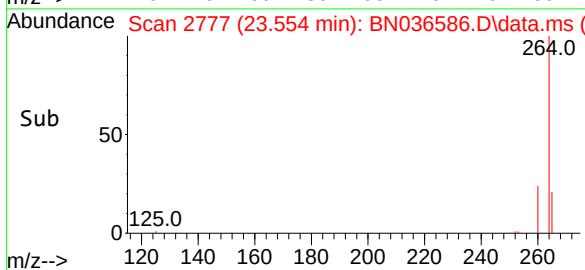
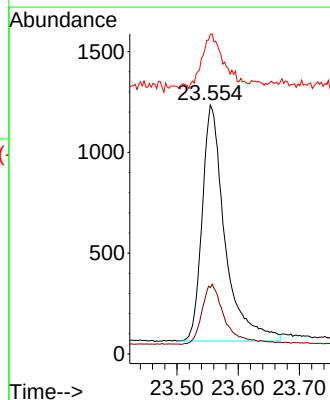
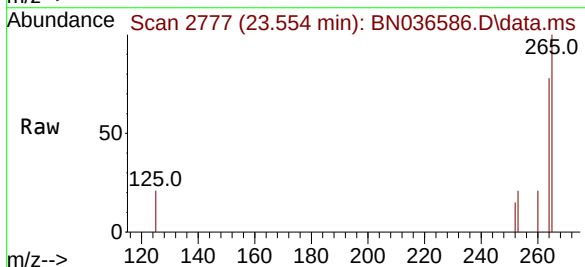
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307

Tgt Ion:149 Resp: 600
Ion Ratio Lower Upper
149 100
167 23.7 20.7 31.1
279 4.3 3.6 5.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036586.D
Acq: 11 Mar 2025 17:57

Tgt Ion:264 Resp: 3024
Ion Ratio Lower Upper
264 100
260 26.6 22.6 33.8
265 128.3 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE125D2-20250307DL	SDG No.:	Q1531
Lab Sample ID:	Q1531-17DL	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
BN036598.D	5	03/10/25 11:35	03/12/25 13:29	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.40	D	0.35	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	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		64%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2300		7.724			
1146-65-2	Naphthalene-d8	5150		10.519			
15067-26-2	Acenaphthene-d10	3130		14.366			
1517-22-2	Phenanthrene-d10	5910		17.111			
1719-03-5	Chrysene-d12	4000		21.295			
1520-96-3	Perylene-d12	3320		23.551			

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\BN031225\
Data File : BN036598.D
Acq On : 12 Mar 2025 13:29
Operator : RC/JU
Sample : Q1531-17DL 5X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

Quant Time: Mar 12 14:14:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

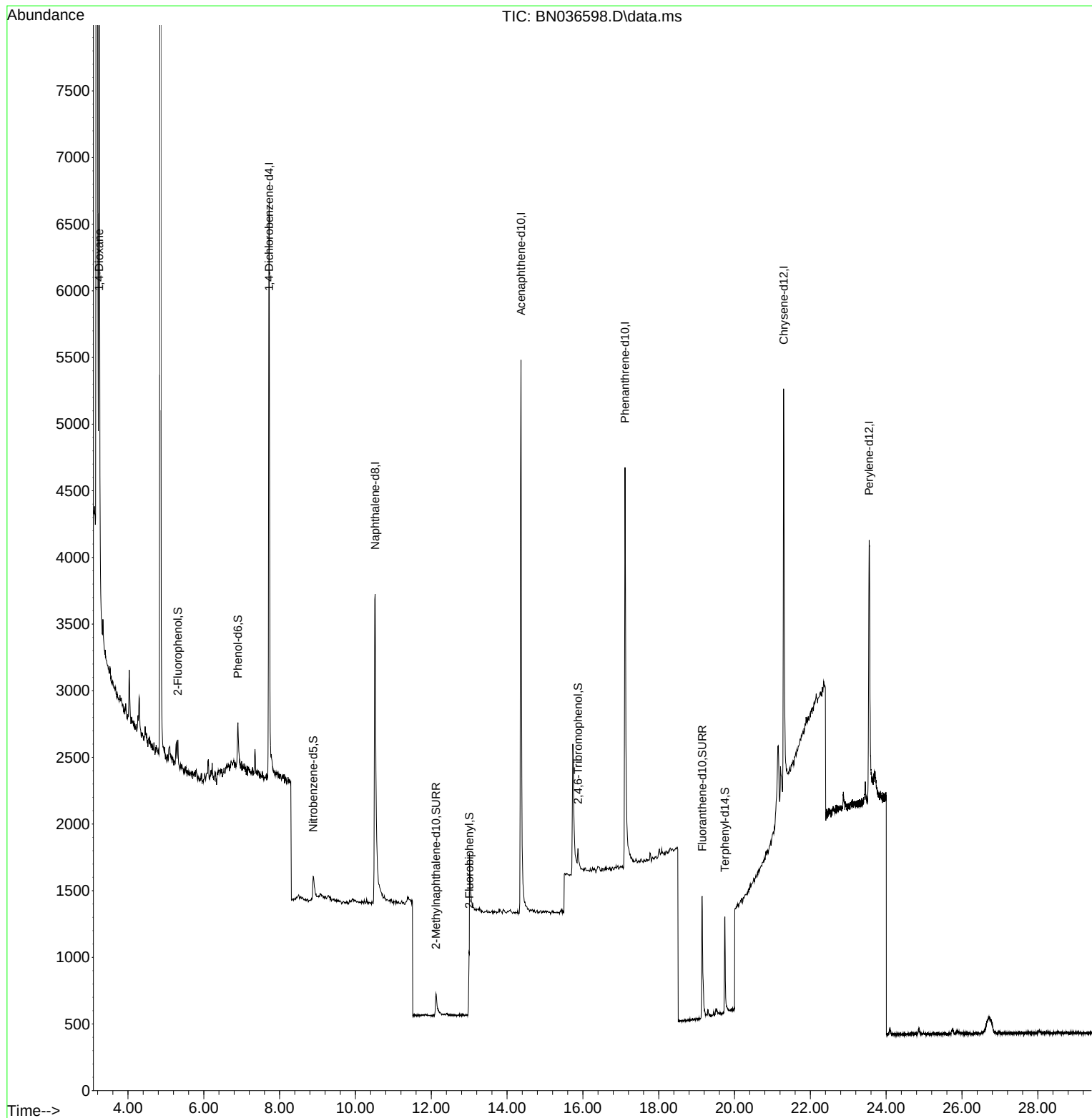
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2304	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	5150	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	3131	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5911	0.400	ng	# 0.00
29) Chrysene-d12	21.295	240	3996	0.400	ng	0.00
35) Perylene-d12	23.551	264	3315	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	163	0.030	ng	0.00
5) Phenol-d6	6.901	99	418	0.063	ng	0.00
8) Nitrobenzene-d5	8.886	82	352	0.063	ng	0.01
11) 2-Methylnaphthalene-d10	12.126	152	471	0.061	ng	0.02
14) 2,4,6-Tribromophenol	15.870	330	112	0.079	ng	0.01
15) 2-Fluorobiphenyl	13.003	172	930	0.051	ng	0.02
27) Fluoranthene-d10	19.146	212	1393	0.092	ng	0.00
31) Terphenyl-d14	19.745	244	934	0.098	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	4295	1.680	ng	96

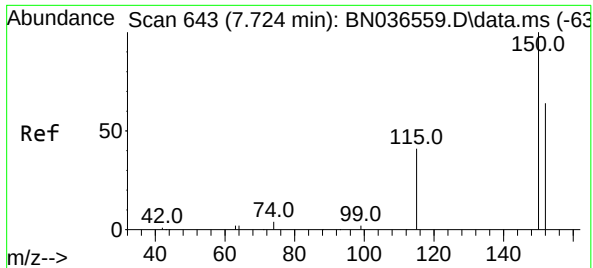
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036598.D
Acq On : 12 Mar 2025 13:29
Operator : RC/JU
Sample : Q1531-17DL 5X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

Quant Time: Mar 12 14:14:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

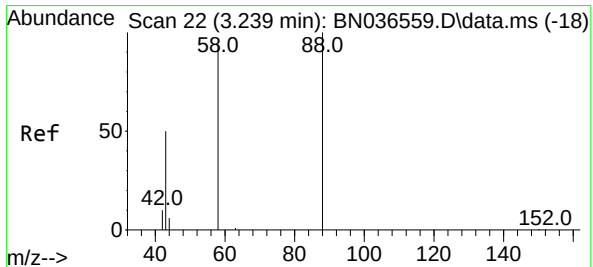
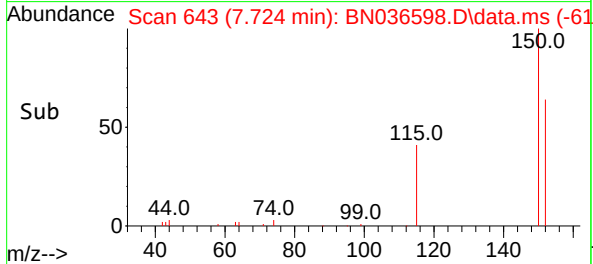
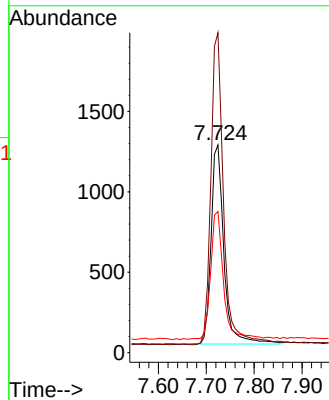
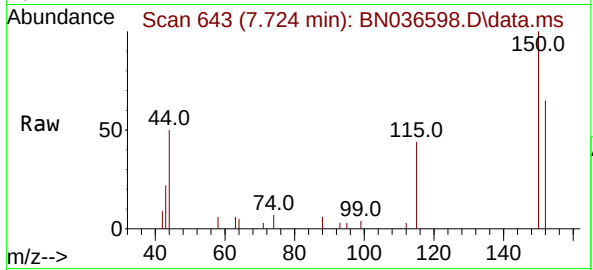




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

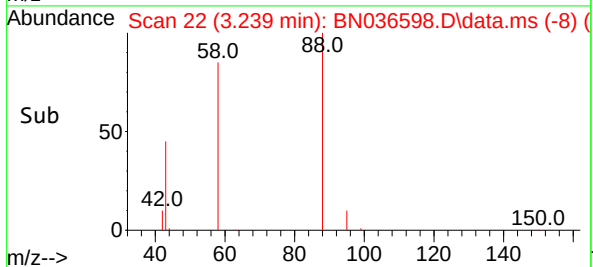
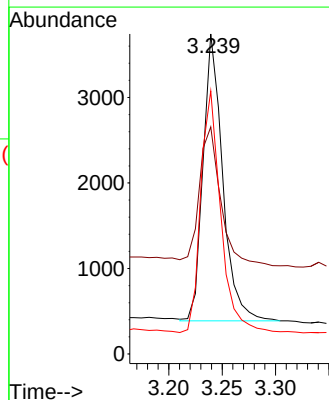
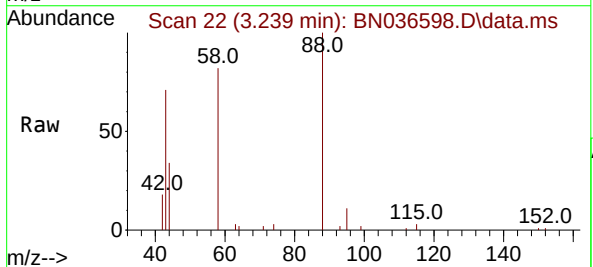
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

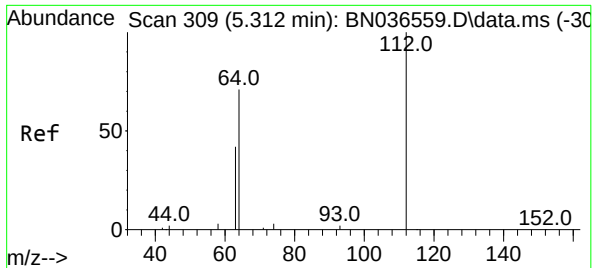
Tgt Ion:152 Resp: 2304
Ion Ratio Lower Upper
152 100
150 154.1 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 1.680 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion: 88 Resp: 4295
Ion Ratio Lower Upper
88 100
43 52.8 37.8 56.8
58 86.2 67.4 101.2

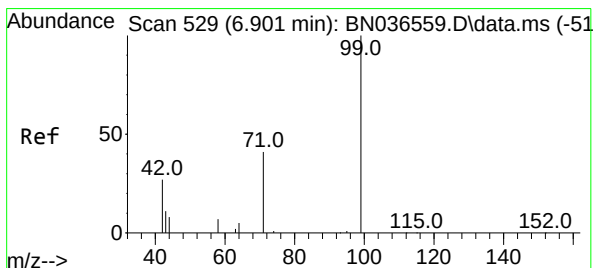
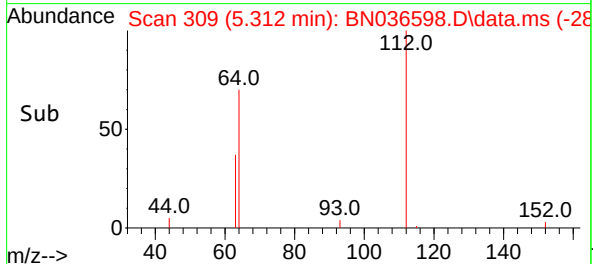
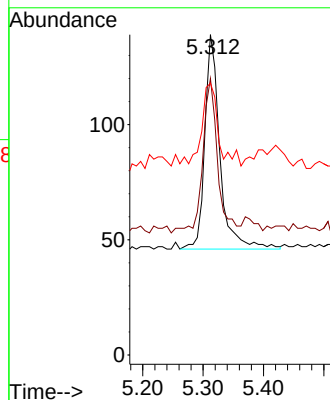
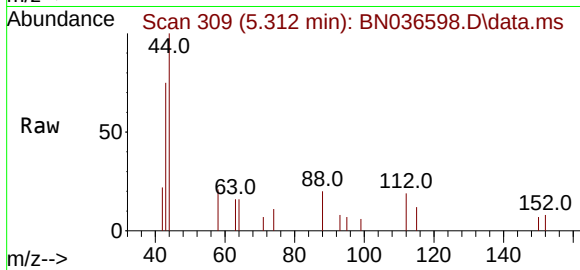




#4
2-Fluorophenol
Concen: 0.030 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

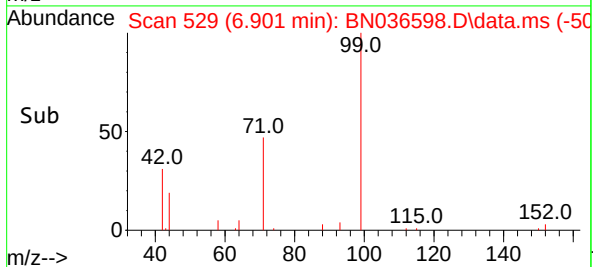
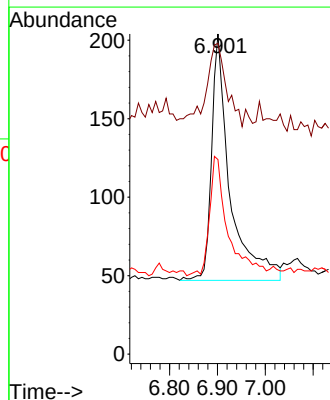
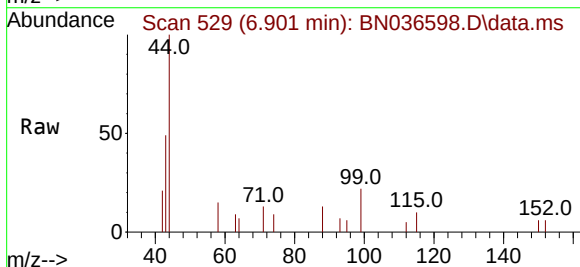
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

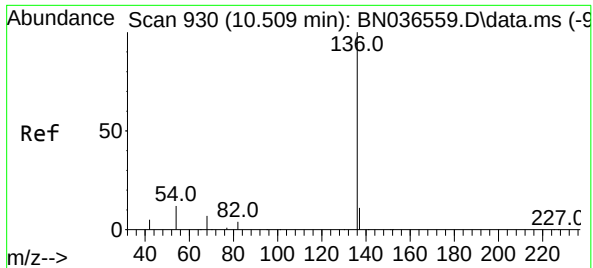
Tgt Ion:112 Resp: 163
Ion Ratio Lower Upper
112 100
64 69.9 53.1 79.7
63 44.2 31.8 47.8



#5
Phenol-d6
Concen: 0.063 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion: 99 Resp: 418
Ion Ratio Lower Upper
99 100
42 37.3 26.5 39.7
71 48.1 34.1 51.1

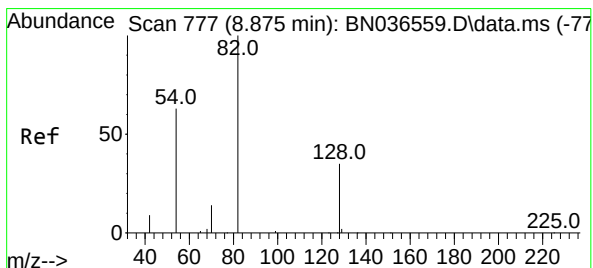
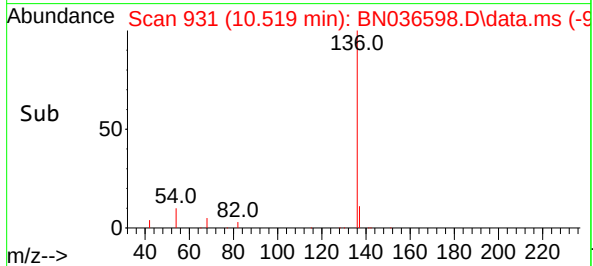
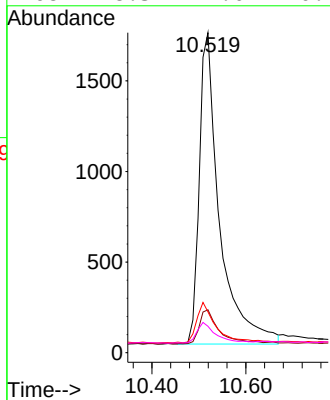
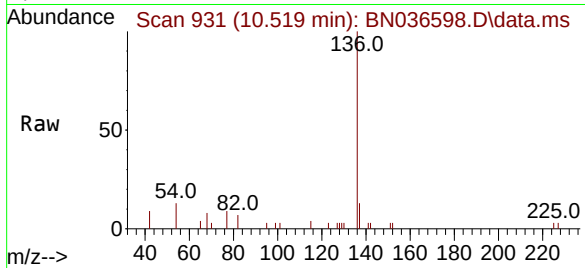




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

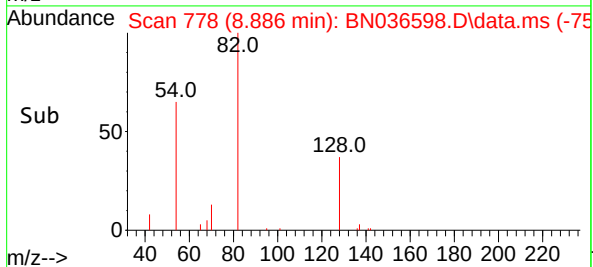
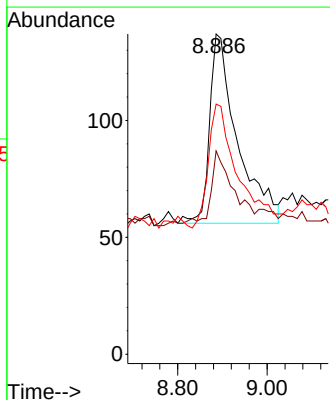
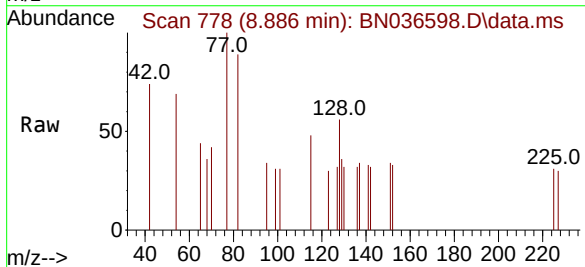
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

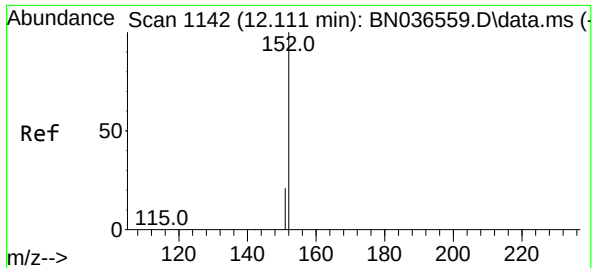
Tgt Ion:	136	Resp:	5150
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	12.7	11.5	17.3
68	8.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.063 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion:	82	Resp:	352
Ion	Ratio	Lower	Upper
82	100		
128	63.5	30.6	45.8#
54	78.1	52.2	78.4

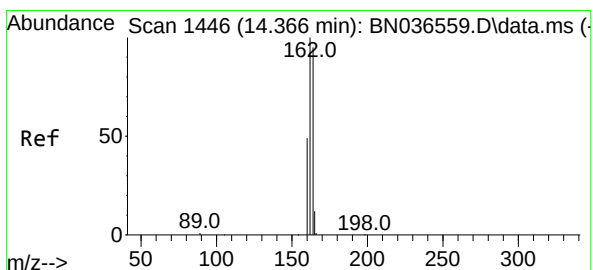
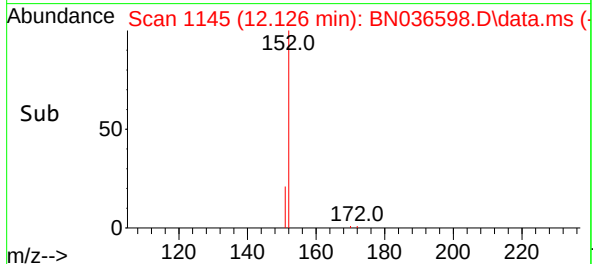
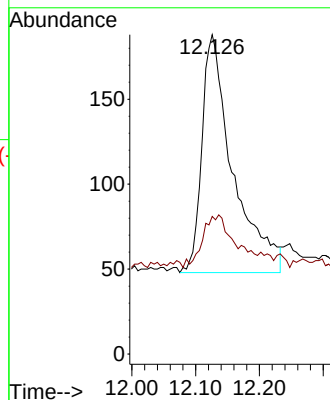
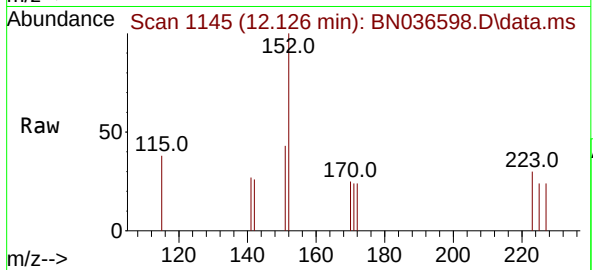




#11
2-Methylnaphthalene-d10
Concen: 0.061 ng
RT: 12.126 min Scan# 1145
Delta R.T. 0.015 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

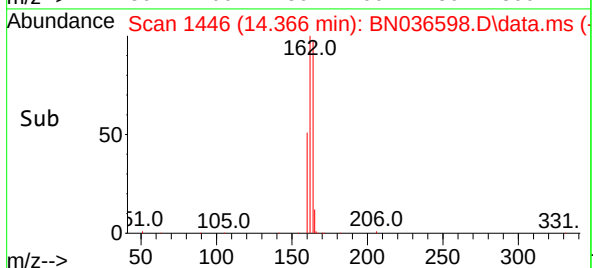
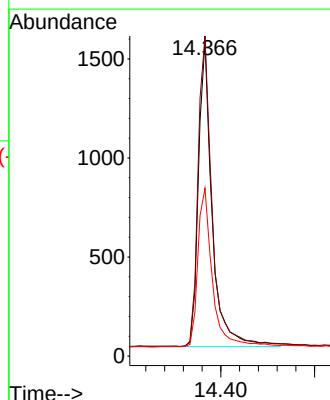
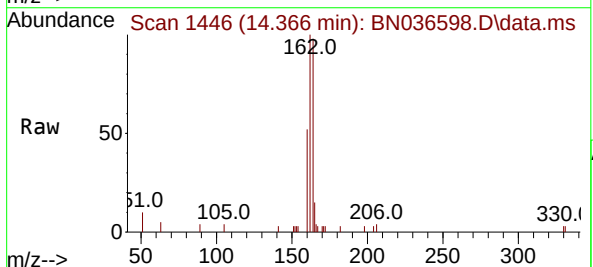
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

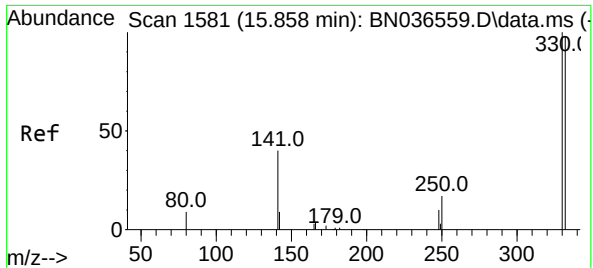
Tgt Ion:152 Resp: 471
Ion Ratio Lower Upper
152 100
151 22.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion:164 Resp: 3131
Ion Ratio Lower Upper
164 100
162 101.8 84.2 126.2
160 53.3 42.2 63.2

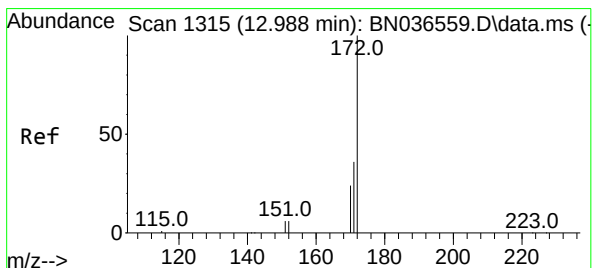
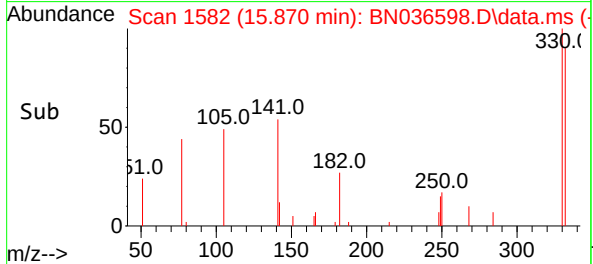
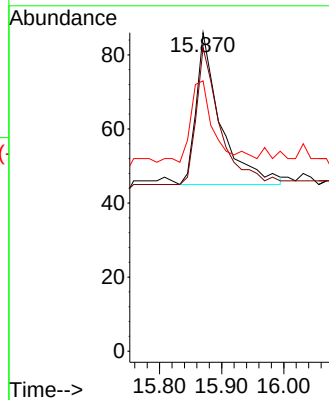
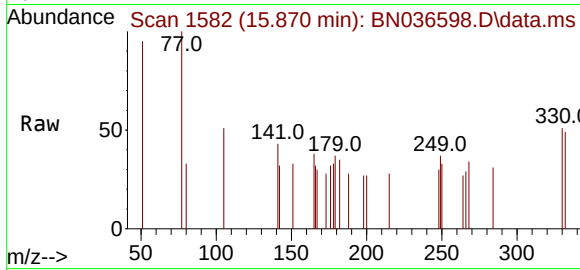




#14
2,4,6-Tribromophenol
Concen: 0.079 ng
RT: 15.870 min Scan# 1112
Delta R.T. 0.012 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

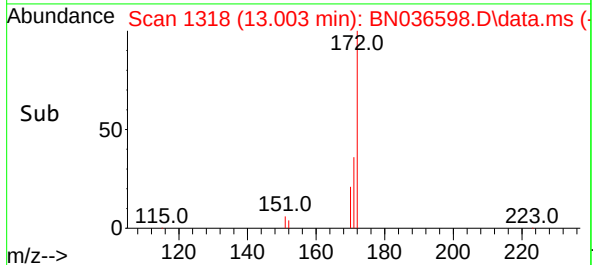
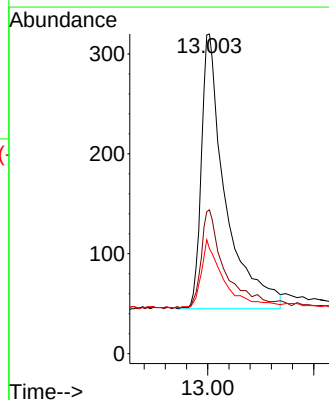
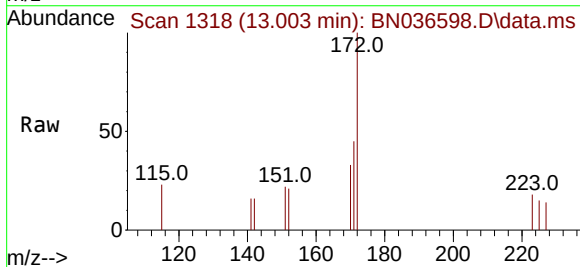
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

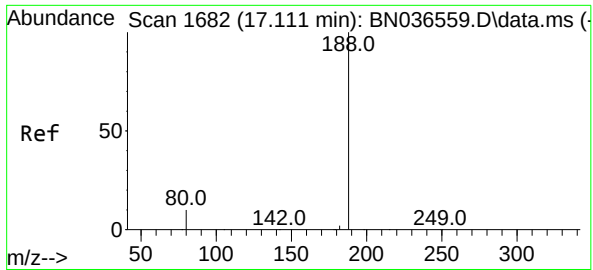
Tgt Ion	330	332	141
Resp:	112	87.5	47.3
Lower		75.2	43.4
Upper		112.8	65.2



#15
2-Fluorobiphenyl
Concen: 0.051 ng
RT: 13.003 min Scan# 1318
Delta R.T. 0.015 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion	172	171	170
Resp:	930	45.0	32.8
Lower		29.5	20.2
Upper		44.3#	30.4#

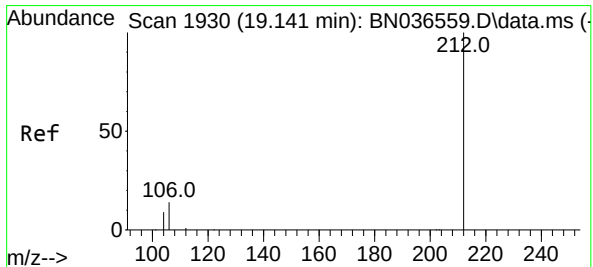
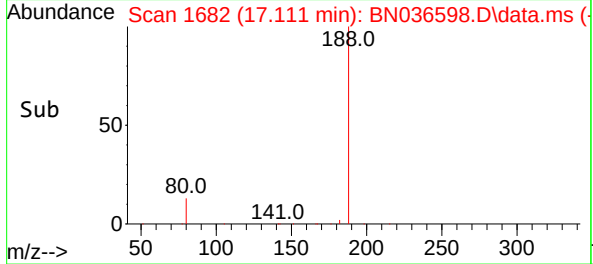
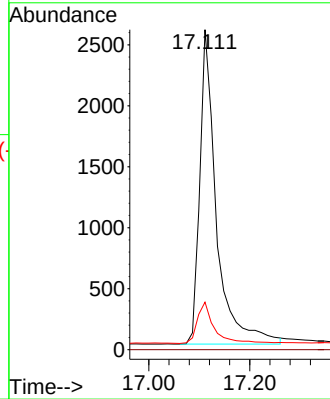
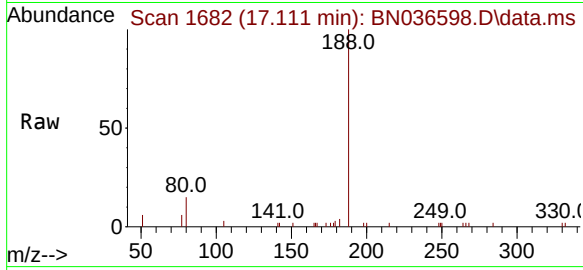




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

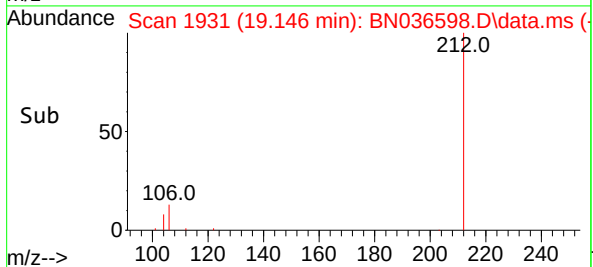
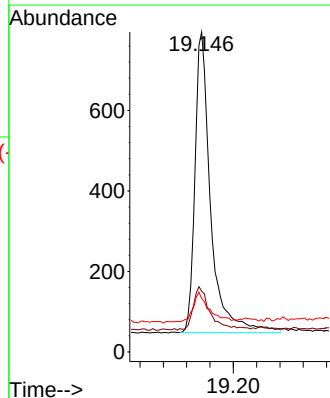
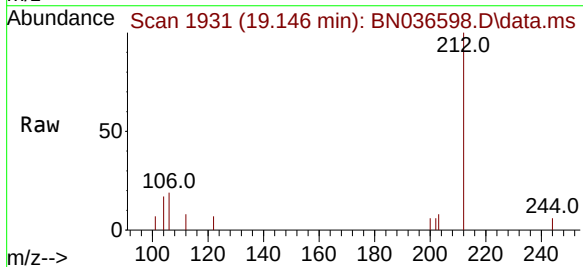
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

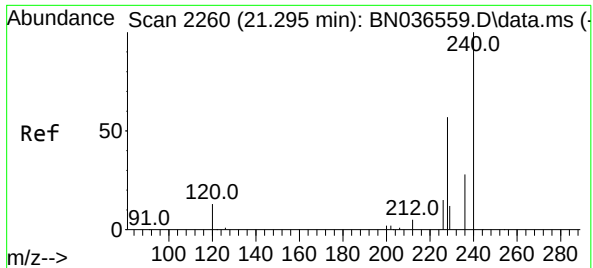
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	8.8	13.2#



#27
Fluoranthene-d10
Concen: 0.092 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	11.8	17.6
104	10.1	7.3	10.9

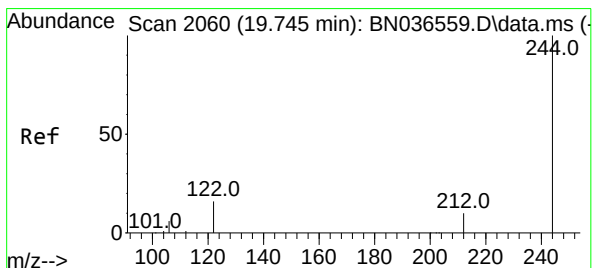
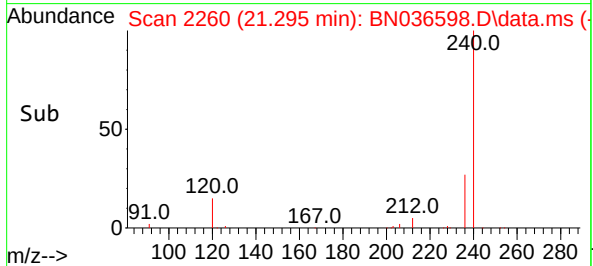
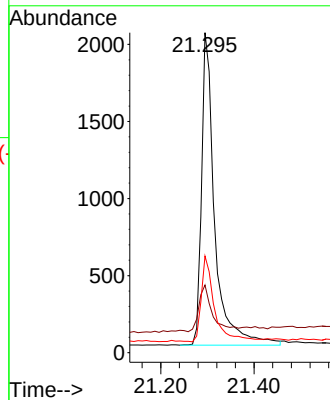
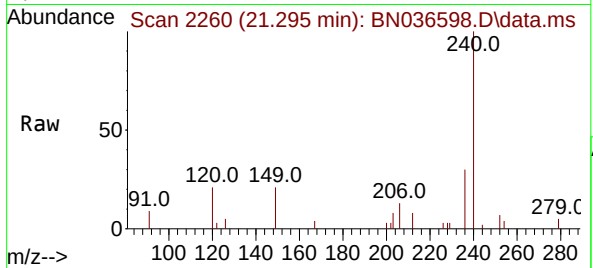




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

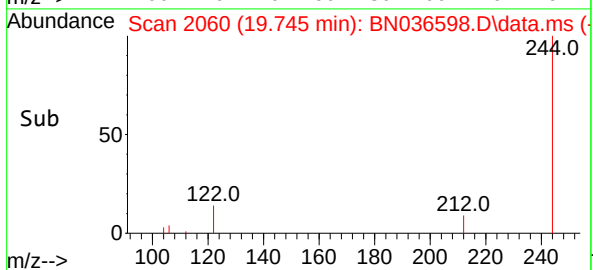
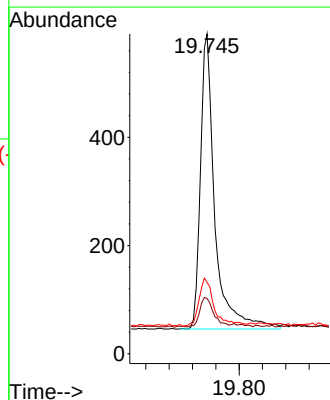
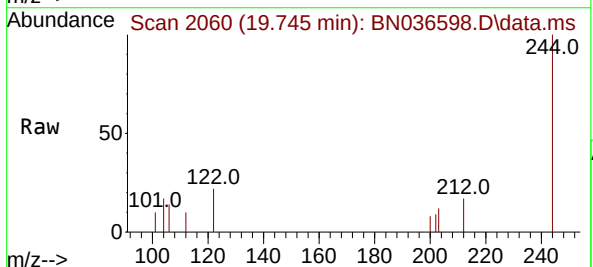
Instrument :
BNA_N
ClientSampleId :
RE125D2-20250307DL

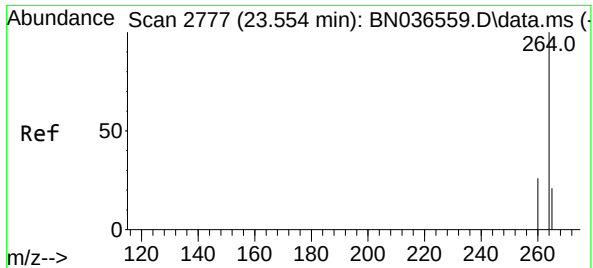
Tgt Ion:240 Resp: 3996
Ion Ratio Lower Upper
240 100
120 21.1 14.6 22.0
236 30.2 24.1 36.1



#31
Terphenyl-d14
Concen: 0.098 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036598.D
Acq: 12 Mar 2025 13:29

Tgt Ion:244 Resp: 934
Ion Ratio Lower Upper
244 100
212 17.3 9.6 14.4#
122 22.3 13.9 20.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036598.D

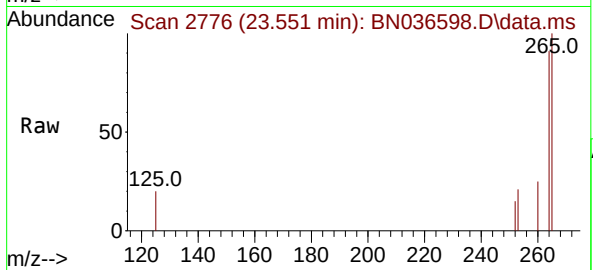
Acq: 12 Mar 2025 13:29

Instrument :

BNA_N

ClientSampleId :

RE125D2-20250307DL



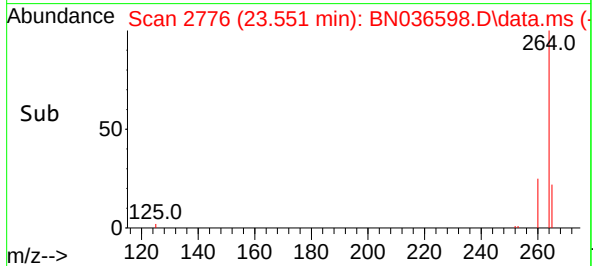
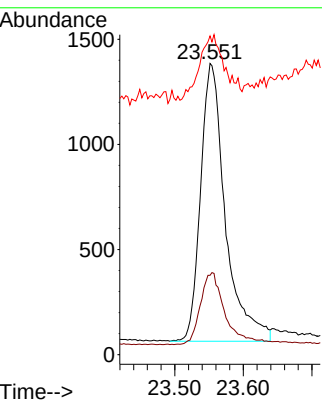
Tgt Ion:264 Resp: 3315

Ion	Ratio	Lower	Upper

264	100		

260	27.2	22.6	33.8

265	109.5	88.1	132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	FB01	SDG No.:	Q1531
Lab Sample ID:	Q1531-18	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
BN036587.D	1	03/10/25 11:35	03/11/25 18:33	PB167057

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	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1900	7.724				
1146-65-2	Naphthalene-d8	4320	10.519				
15067-26-2	Acenaphthene-d10	2630	14.366				
1517-22-2	Phenanthrene-d10	5340	17.111				
1719-03-5	Chrysene-d12	4000	21.295				
1520-96-3	Perylene-d12	3150	23.557				

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\BN031125\
Data File : BN036587.D
Acq On : 11 Mar 2025 18:33
Operator : RC/JU
Sample : Q1531-18
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01

Quant Time: Mar 12 01:09:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

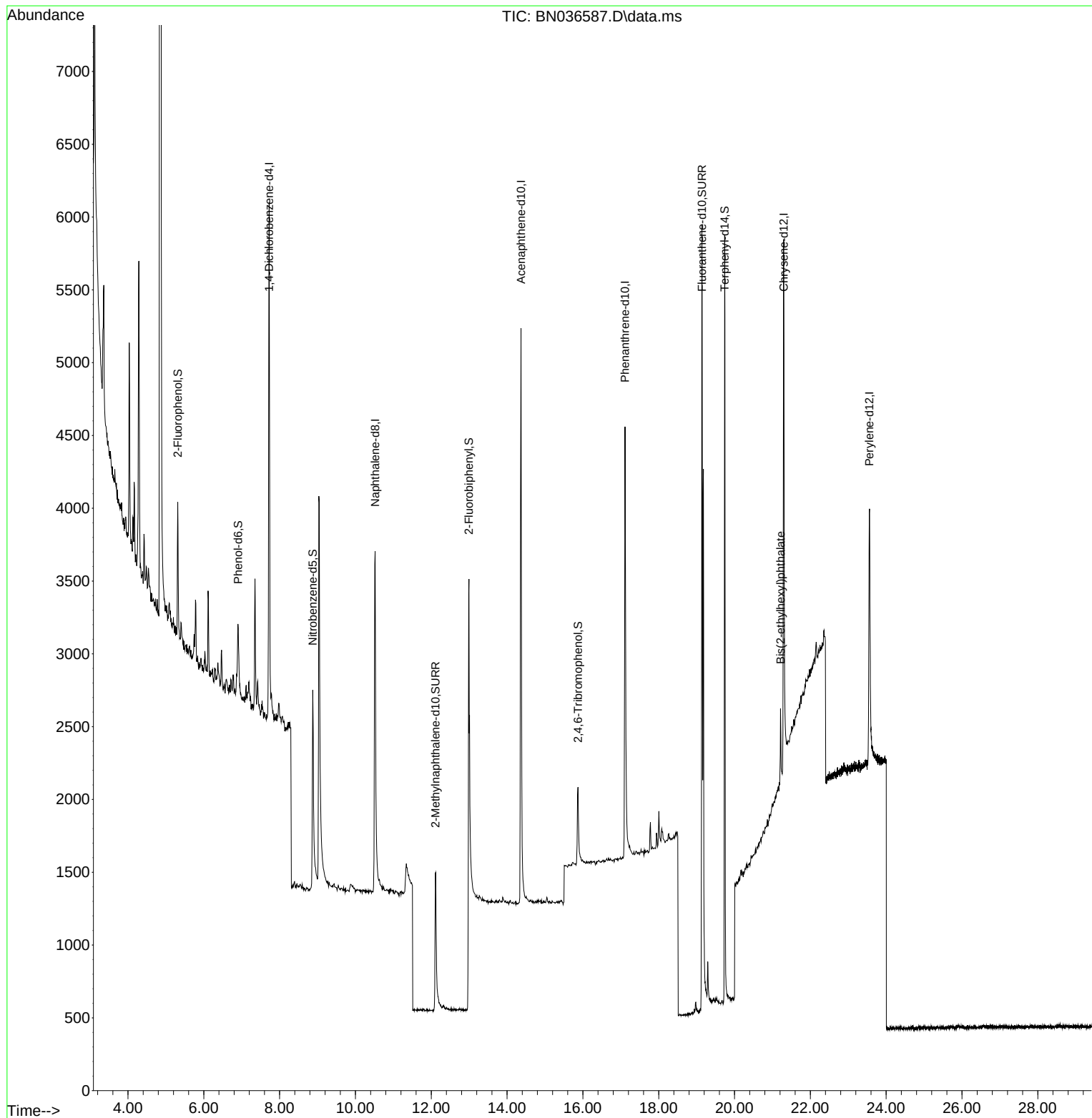
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1897	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4317	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2633	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5337	0.400	ng	# 0.00
29) Chrysene-d12	21.295	240	4002	0.400	ng	0.00
35) Perylene-d12	23.557	264	3149	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	681	0.154	ng	0.00
5) Phenol-d6	6.908	99	442	0.081	ng	0.00
8) Nitrobenzene-d5	8.875	82	1539	0.328	ng	0.00
11) 2-Methylnaphthalene-d10	12.116	152	2100	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	471	0.394	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	4935	0.322	ng	0.00
27) Fluoranthene-d10	19.141	212	6733	0.492	ng	0.00
31) Terphenyl-d14	19.740	244	5015	0.523	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.214	149	581	0.059	ng	99

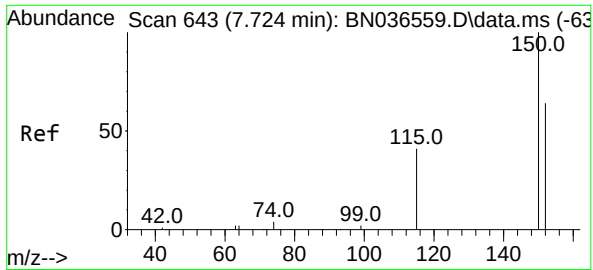
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036587.D
Acq On : 11 Mar 2025 18:33
Operator : RC/JU
Sample : Q1531-18
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01

Quant Time: Mar 12 01:09:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

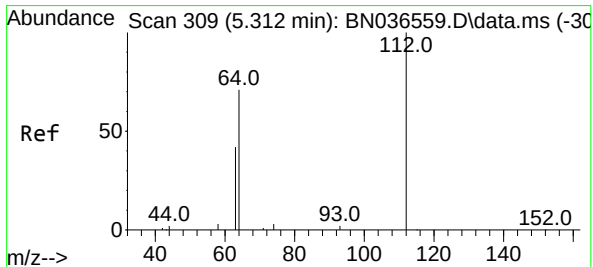
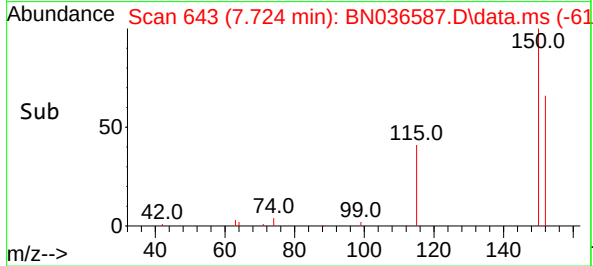
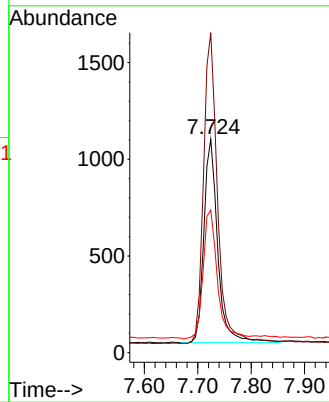
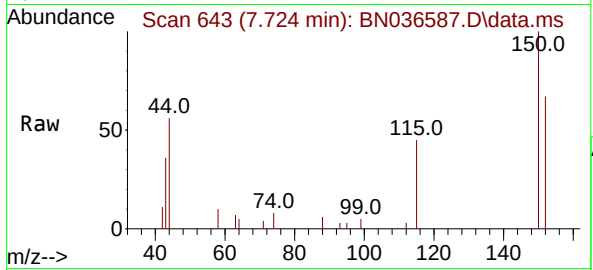




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

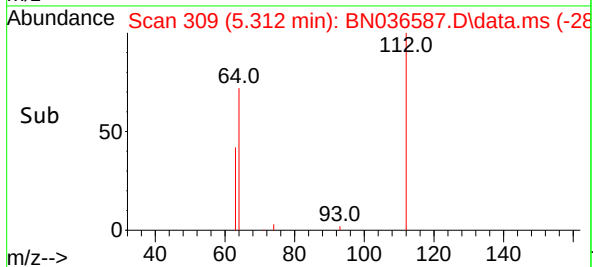
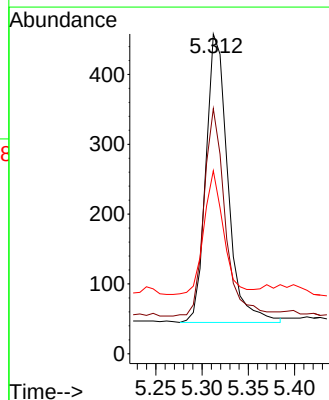
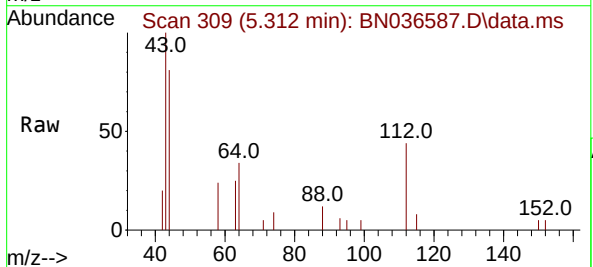
Instrument :
BNA_N
ClientSampleId :
FB01

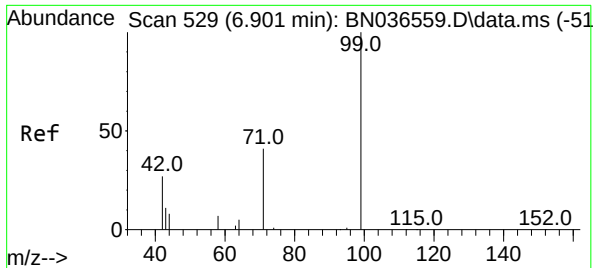
Tgt Ion:152 Resp: 1897
Ion Ratio Lower Upper
152 100
150 149.8 123.7 185.5
115 66.7 54.3 81.5



#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion:112 Resp: 681
Ion Ratio Lower Upper
112 100
64 68.9 53.1 79.7
63 38.0 31.8 47.8

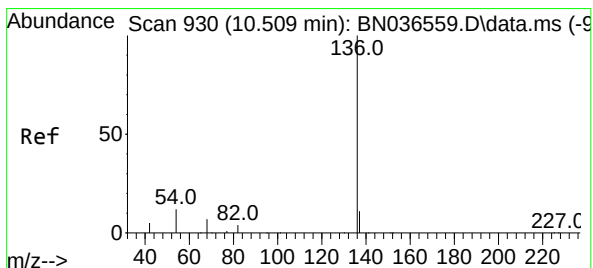
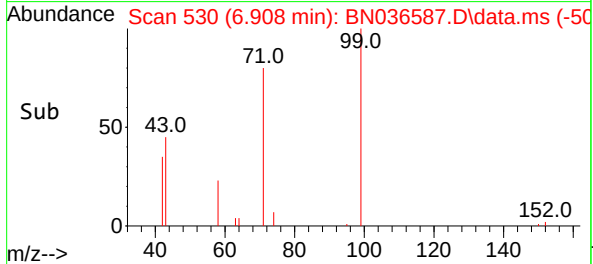
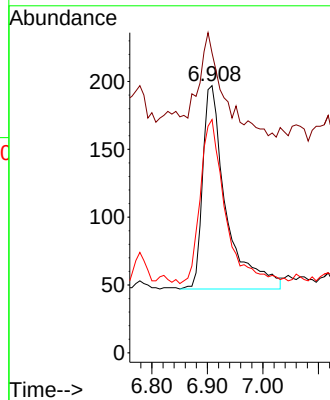
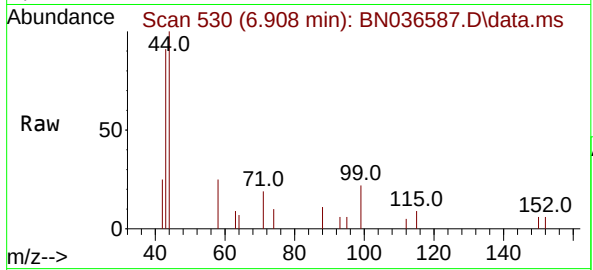




#5
Phenol-d6
Concen: 0.081 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

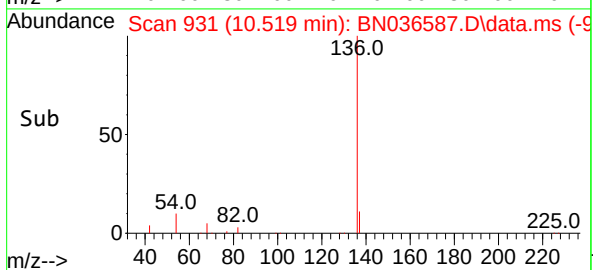
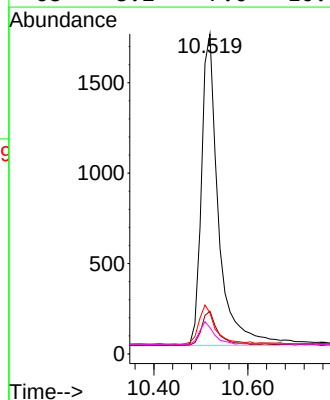
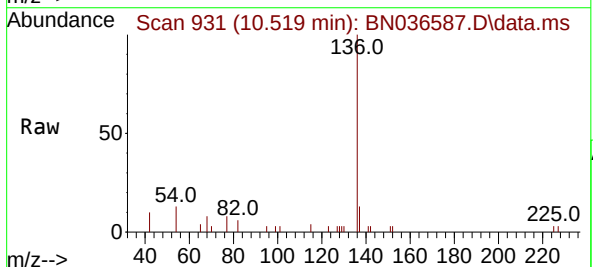
Instrument :
BNA_N
ClientSampleId :
FB01

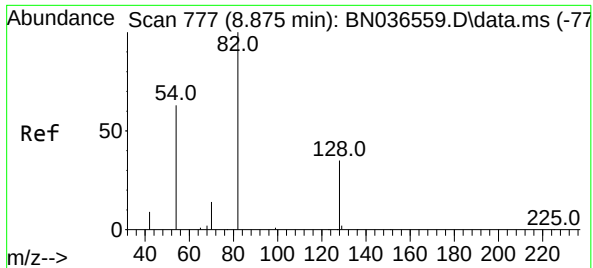
Tgt Ion: 99 Resp: 442
Ion Ratio Lower Upper
99 100
42 36.7 26.5 39.7
71 86.4 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion: 136 Resp: 4317
Ion Ratio Lower Upper
136 100
137 13.3 10.3 15.5
54 12.8 11.5 17.3
68 8.2 7.0 10.4

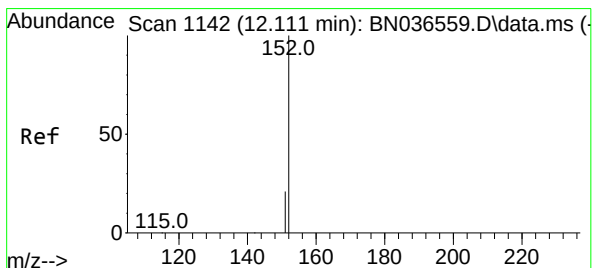
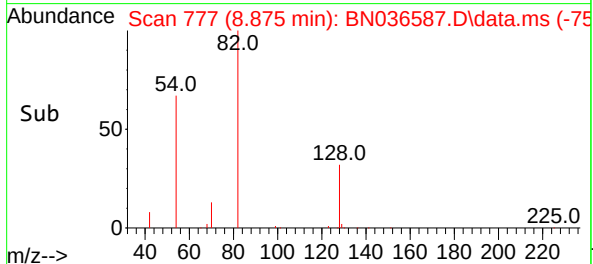
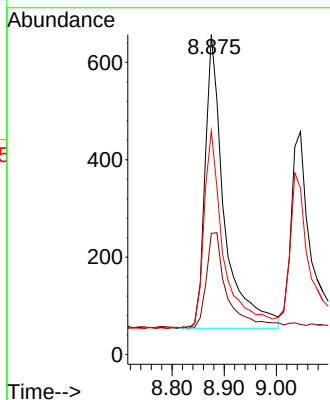
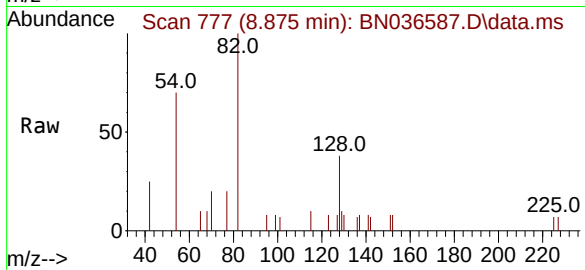




#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

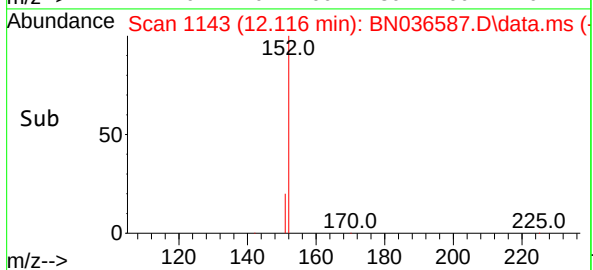
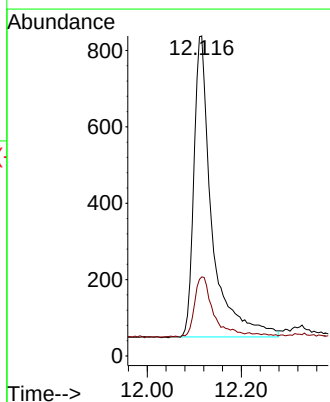
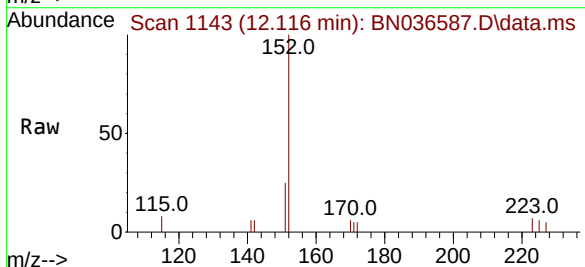
Instrument :
BNA_N
ClientSampleId :
FB01

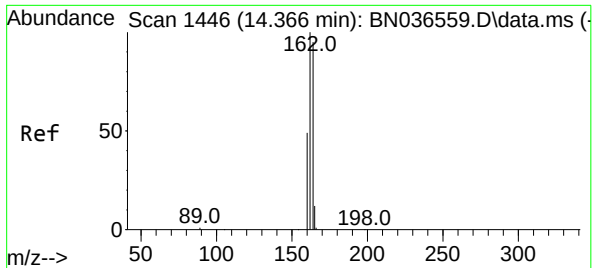
Tgt Ion:	82	Resp:	1539
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	69.9	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.005 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion:	152	Resp:	2100
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

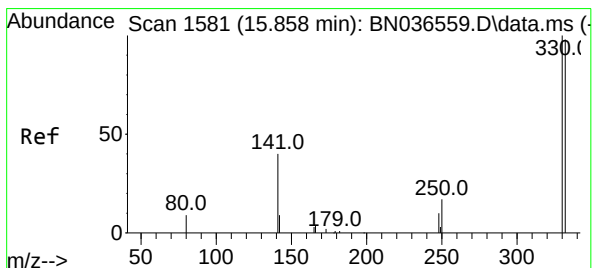
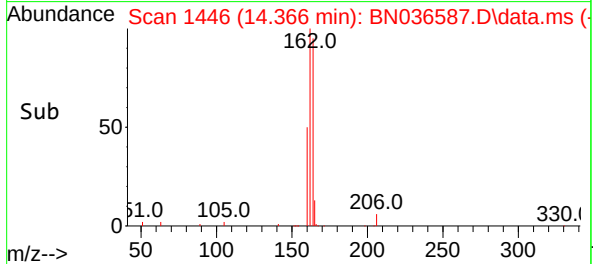
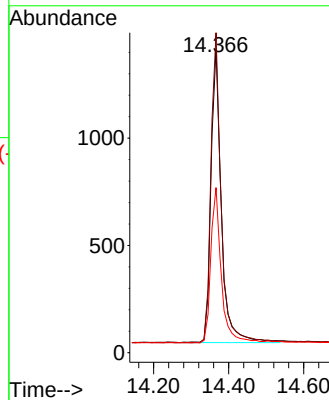
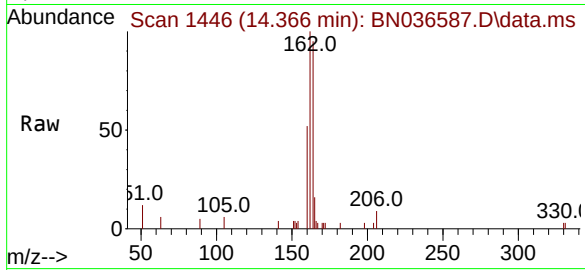




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

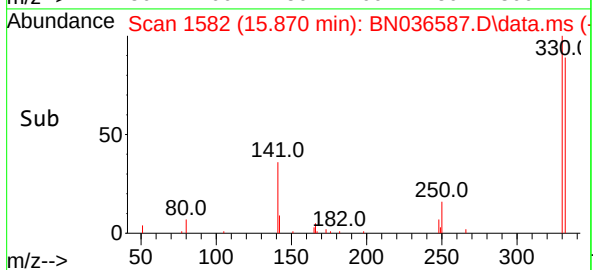
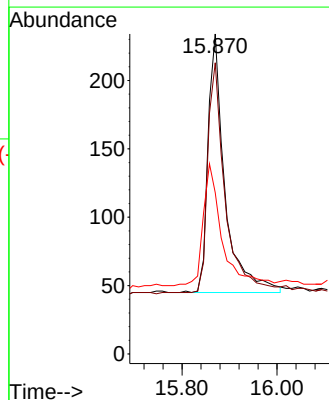
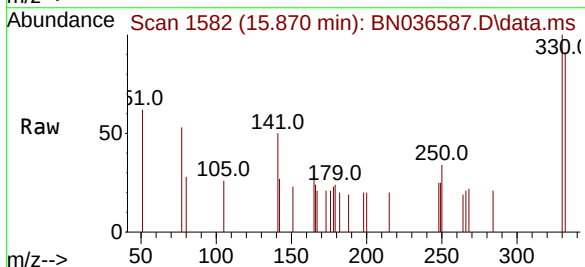
Instrument :
BNA_N
ClientSampleId :
FB01

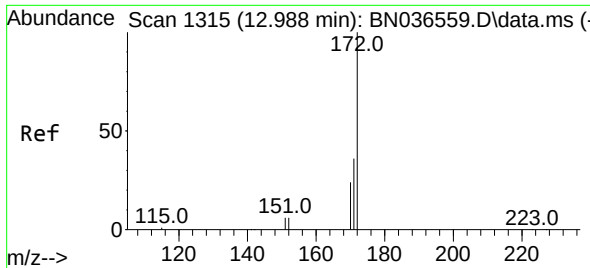
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	84.2	126.2
160	54.4	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.394 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.4	75.2	112.8
141	51.8	43.4	65.2

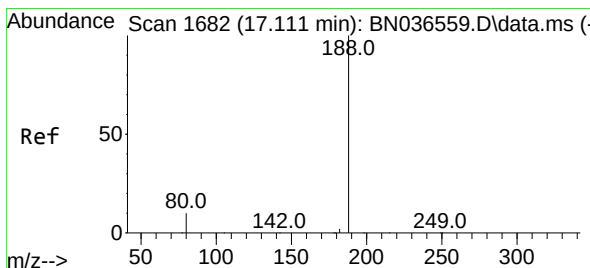
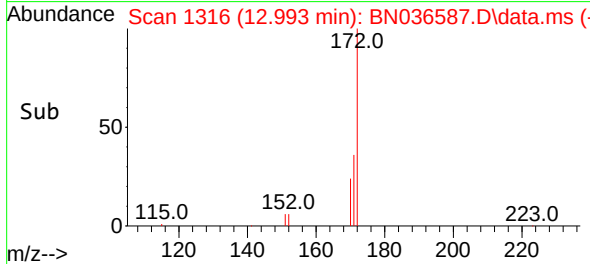
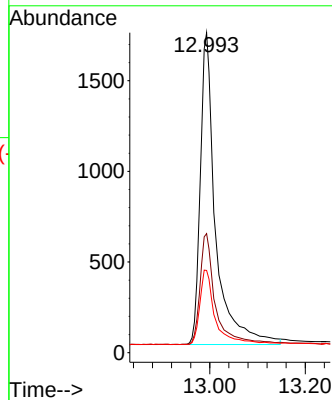
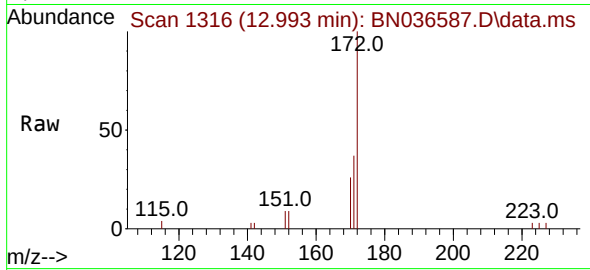




#15
2-Fluorobiphenyl
Concen: 0.322 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

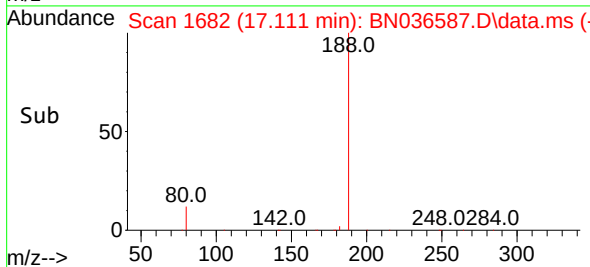
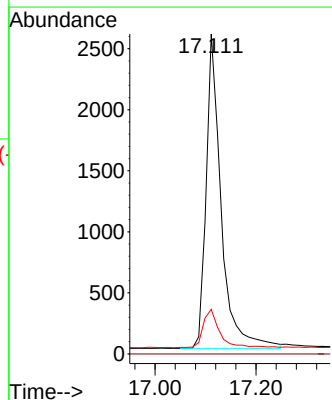
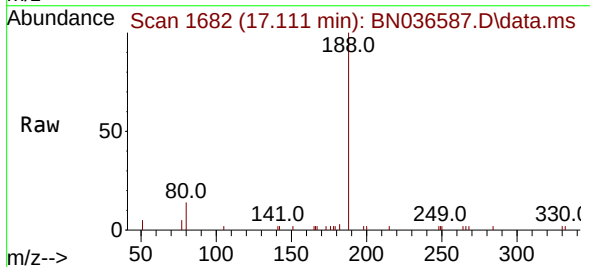
Instrument :
BNA_N
ClientSampleId :
FB01

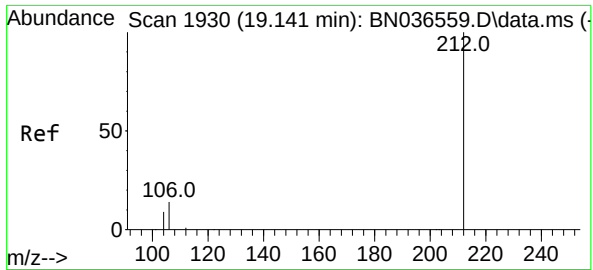
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.7	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.492 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036587.D

Acq: 11 Mar 2025 18:33

Instrument :

BNA_N

ClientSampleId :

FB01

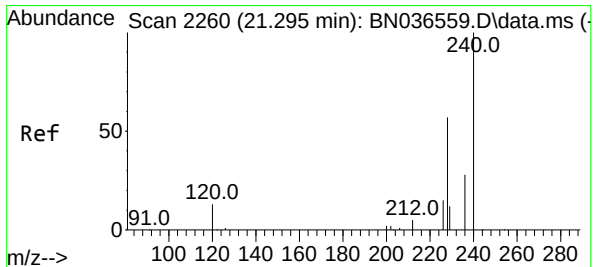
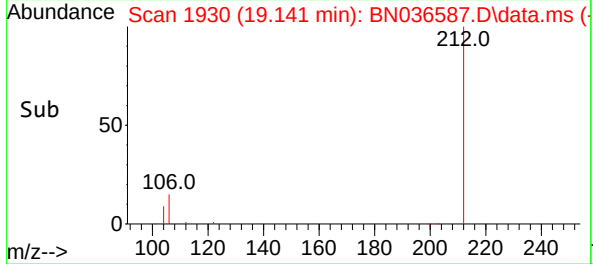
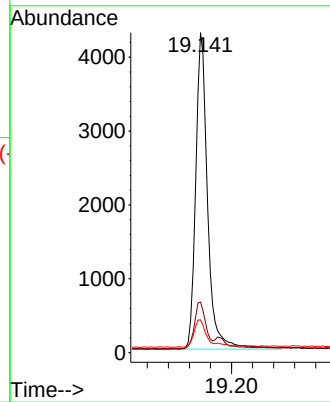
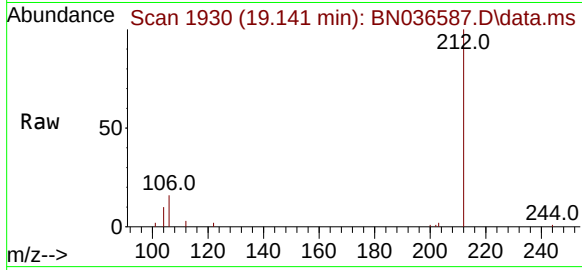
Tgt Ion:212 Resp: 6733

Ion Ratio Lower Upper

212 100

106 14.0 11.8 17.6

104 9.9 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036587.D

Acq: 11 Mar 2025 18:33

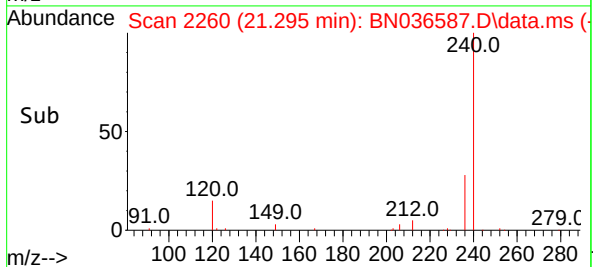
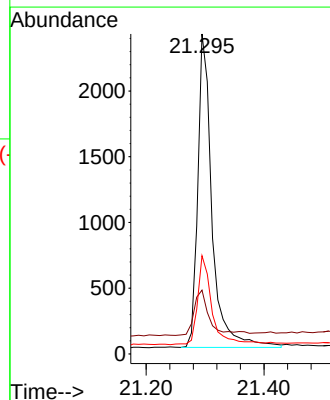
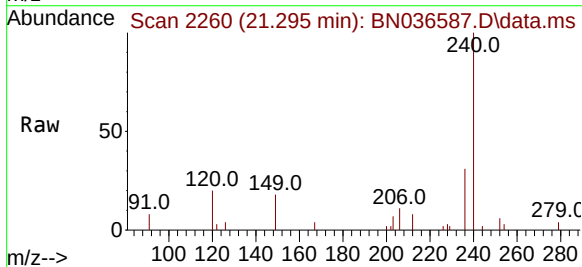
Tgt Ion:240 Resp: 4002

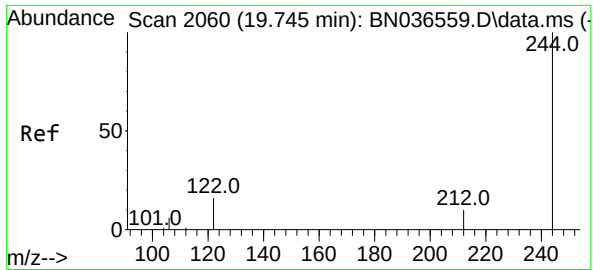
Ion Ratio Lower Upper

240 100

120 20.0 14.6 22.0

236 30.7 24.1 36.1

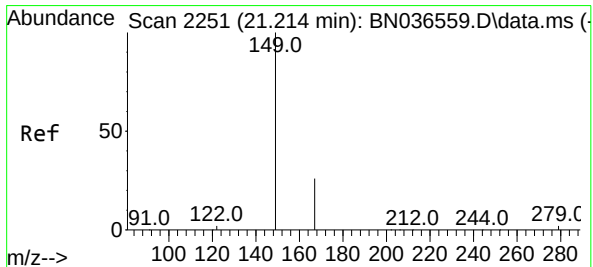
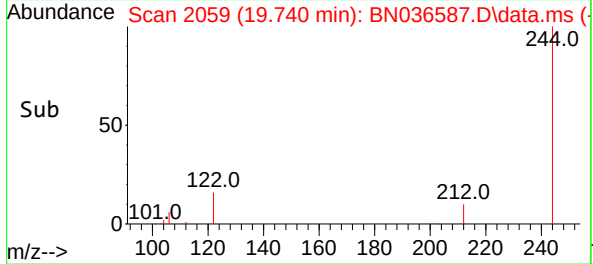
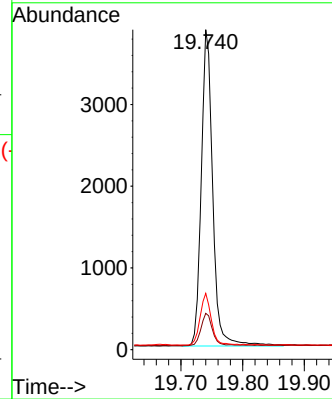
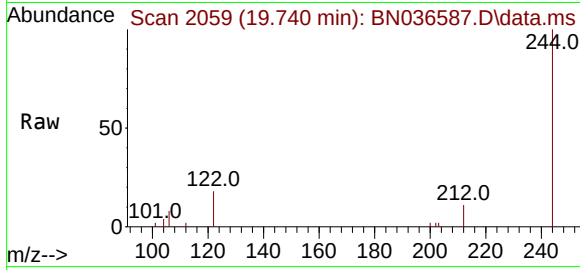




#31
Terphenyl-d14
Concen: 0.523 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

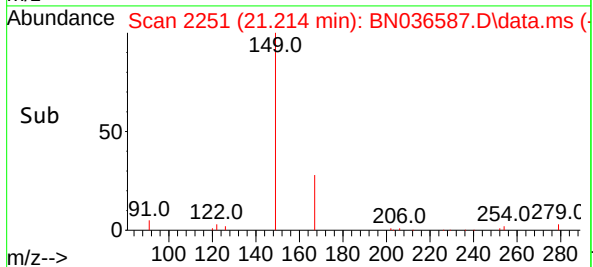
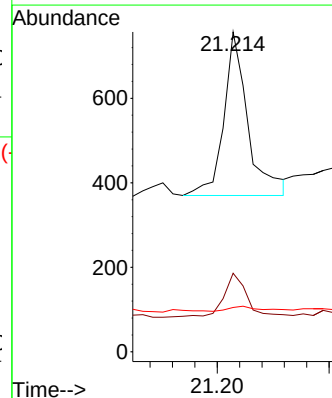
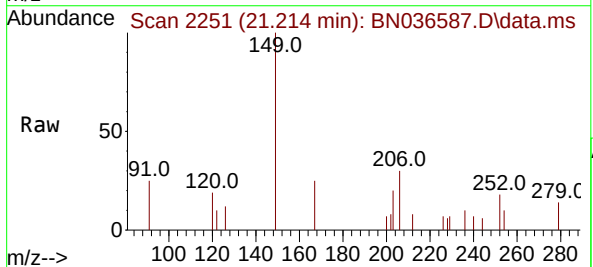
Instrument :
BNA_N
ClientSampleId :
FB01

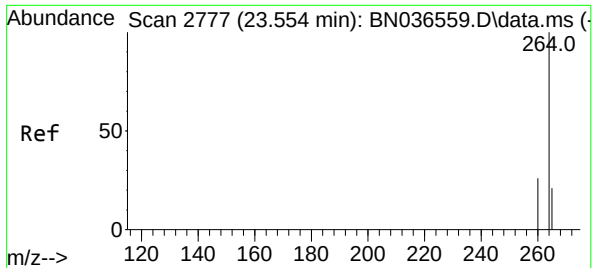
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.6	14.4
122	17.6	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036587.D
Acq: 11 Mar 2025 18:33

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.7	31.1
279	4.3	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.557 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036587.D

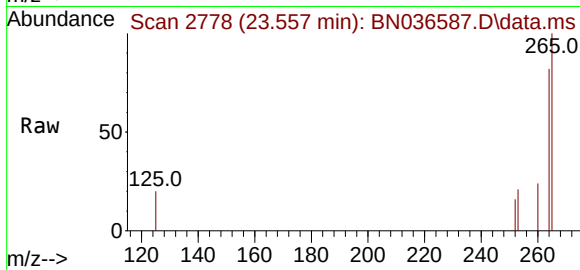
Acq: 11 Mar 2025 18:33

Instrument :

BNA_N

ClientSampleId :

FB01



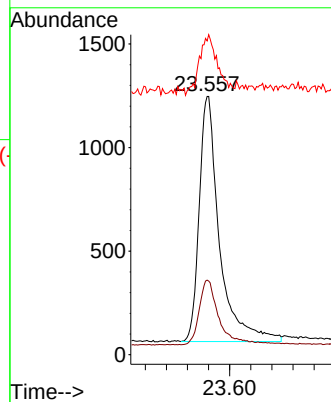
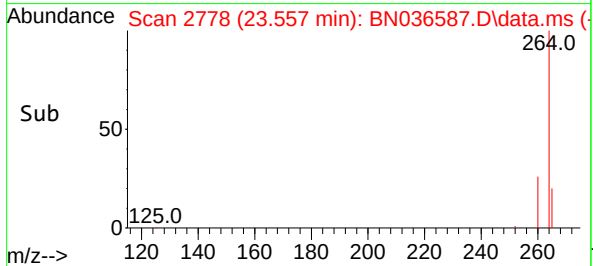
Tgt Ion:264 Resp: 3149

Ion Ratio Lower Upper

264 100

260 28.9 22.6 33.8

265 121.5 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE104D2-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-19	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN036594.D	1	03/10/25 11:35	03/12/25 11:02	PB167057

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	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	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	1940		7.724			
1146-65-2	Naphthalene-d8	4250		10.509			
15067-26-2	Acenaphthene-d10	2600		14.366			
1517-22-2	Phenanthrene-d10	5270		17.111			
1719-03-5	Chrysene-d12	3680		21.295			
1520-96-3	Perylene-d12	3140		23.551			

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\BN031225\
Data File : BN036594.D
Acq On : 12 Mar 2025 11:02
Operator : RC/JU
Sample : Q1531-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

Quant Time: Mar 12 11:24:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

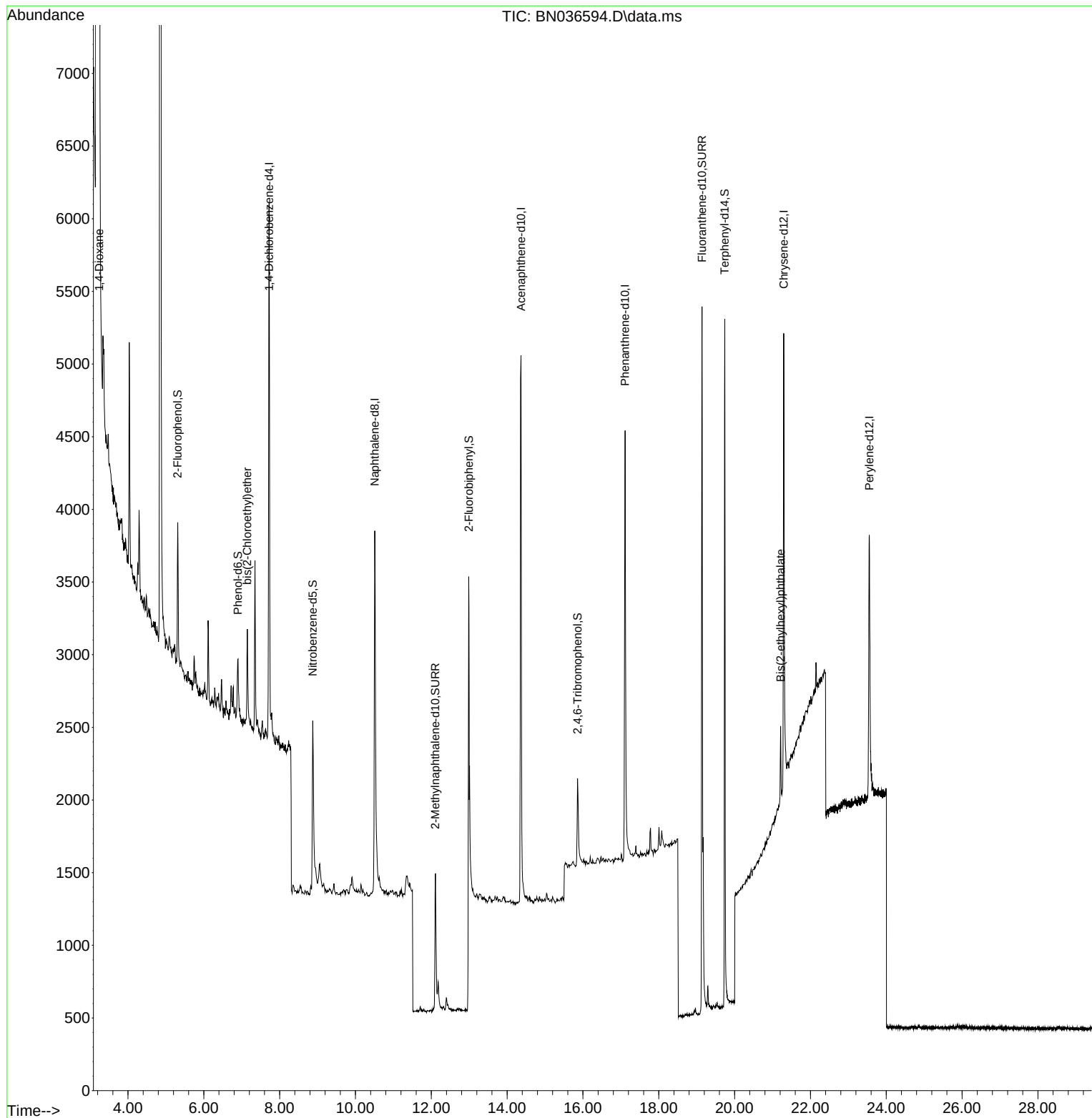
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1944	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4249	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2599	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5272	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3676	0.400	ng	0.00
35) Perylene-d12	23.551	264	3141	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	705	0.156	ng	0.00
5) Phenol-d6	6.901	99	439	0.078	ng	0.00
8) Nitrobenzene-d5	8.875	82	1399	0.303	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	1870	0.296	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	467	0.396	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	4898	0.324	ng	0.00
27) Fluoranthene-d10	19.141	212	6264	0.464	ng	0.00
31) Terphenyl-d14	19.740	244	4789	0.544	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	4958	2.299	ng	Qvalue # 92
6) bis(2-Chloroethyl)ether	7.147	93	509	0.088	ng	95
34) Bis(2-ethylhexyl)phtha...	21.214	149	560	0.062	ng	96

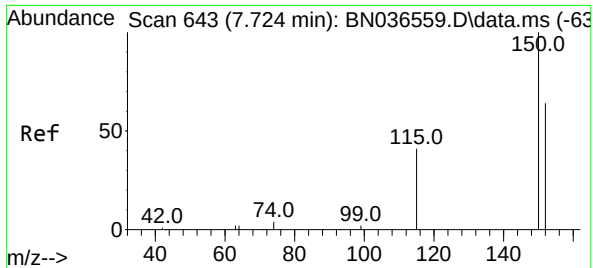
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036594.D
Acq On : 12 Mar 2025 11:02
Operator : RC/JU
Sample : Q1531-19
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

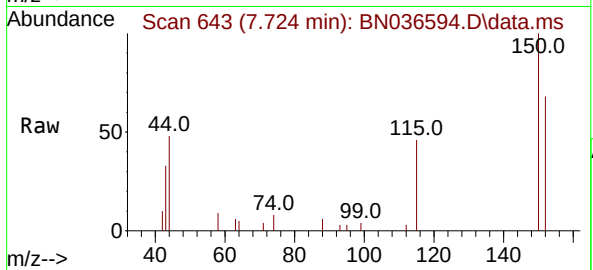
Quant Time: Mar 12 11:24:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



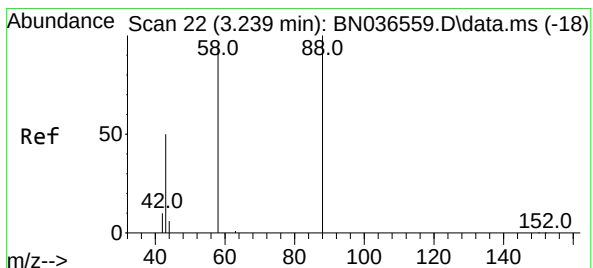
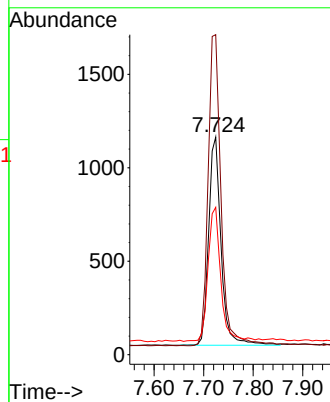
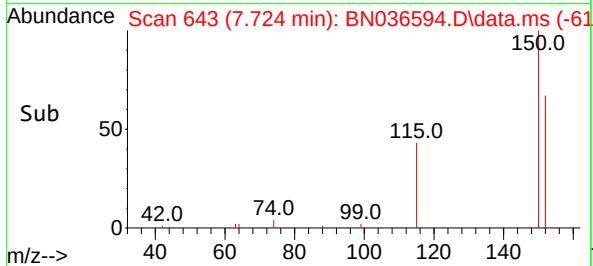


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

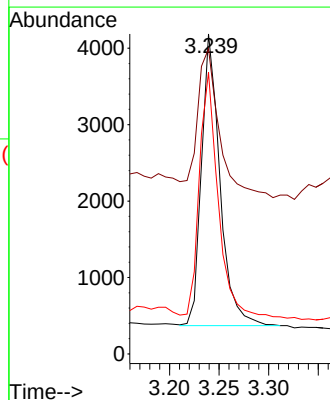
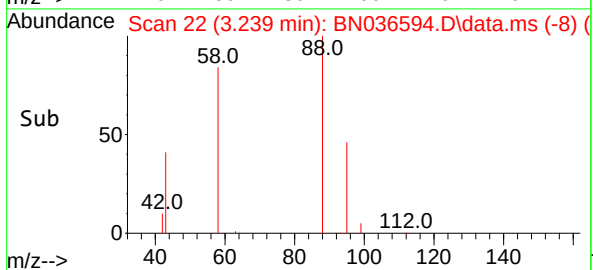
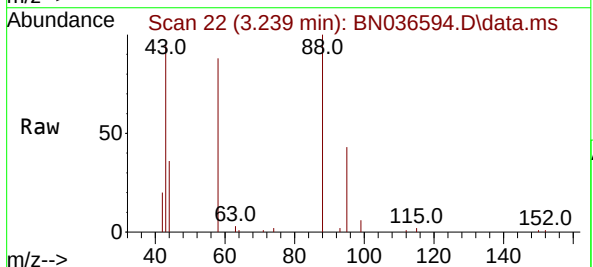


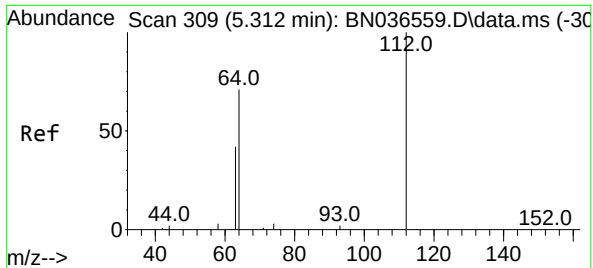
Tgt Ion: 152 Resp: 1944
Ion Ratio Lower Upper
152 100
150 147.1 123.7 185.5
115 67.8 54.3 81.5



#2
1,4-Dioxane
Concen: 2.299 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion: 88 Resp: 4958
Ion Ratio Lower Upper
88 100
43 61.4 37.8 56.8#
58 84.6 67.4 101.2

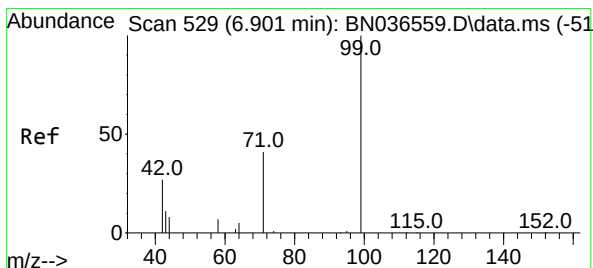
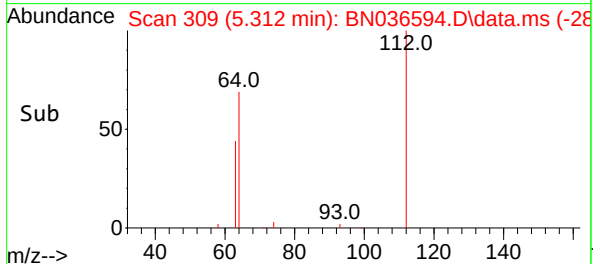
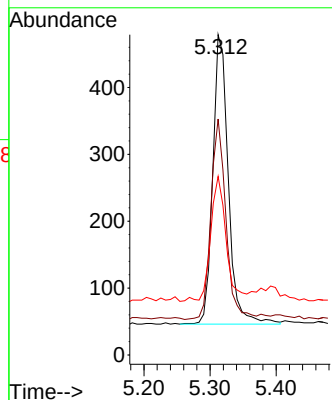
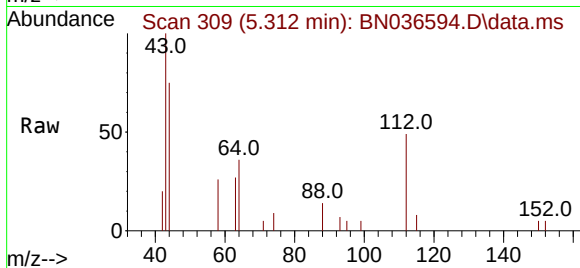




#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

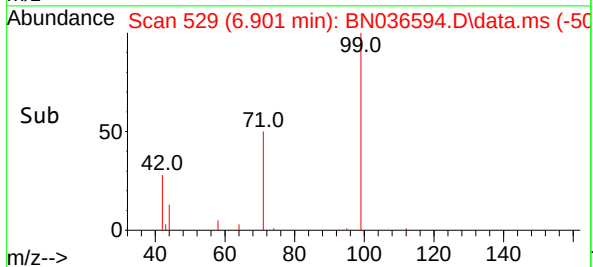
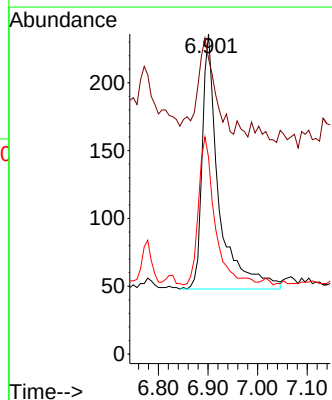
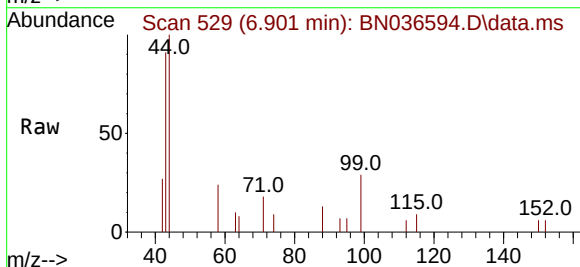
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

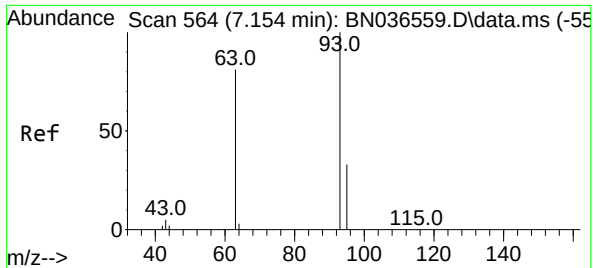
Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	53.1	79.7
63	42.7	31.8	47.8



#5
Phenol-d6
Concen: 0.078 ng
RT: 6.901 min Scan# 529
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion	Ratio	Lower	Upper
99	100		
42	34.9	26.5	39.7
71	57.2	34.1	51.1

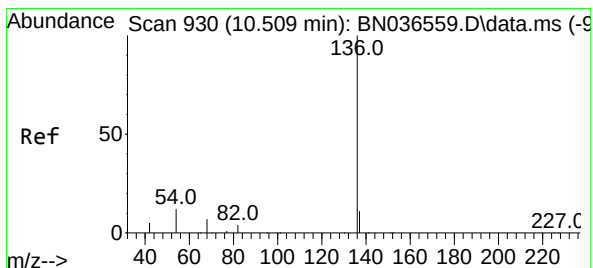
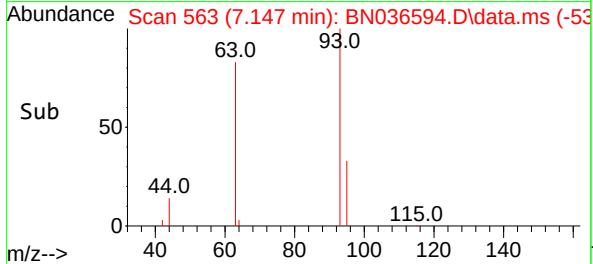
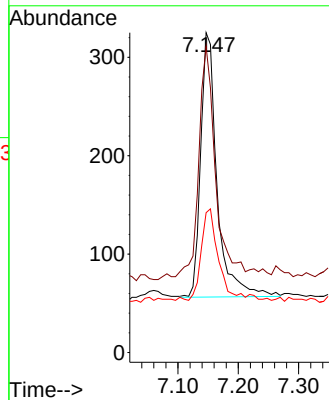
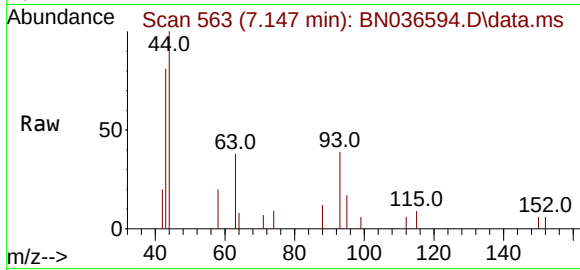




#6
bis(2-Chloroethyl)ether
Concen: 0.088 ng
RT: 7.147 min Scan# 509
Delta R.T. -0.007 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

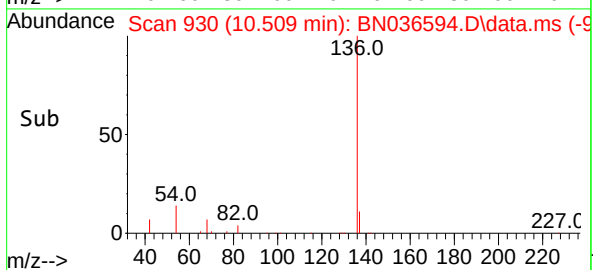
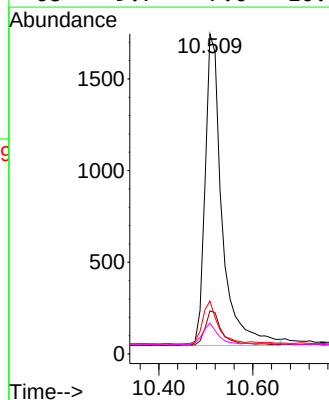
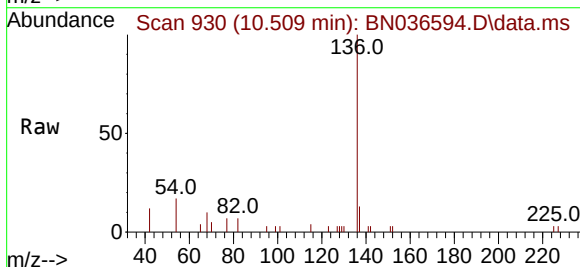
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

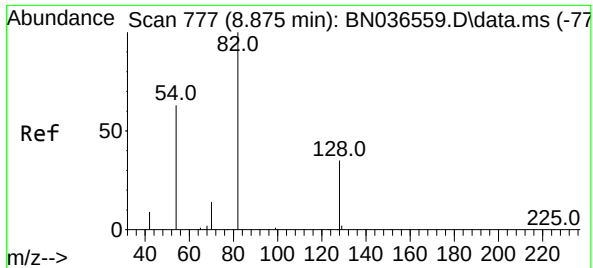
Tgt Ion:	93	Resp:	509
Ion	Ratio	Lower	Upper
93	100		
63	87.4	67.7	101.5
95	37.9	25.6	38.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion:	136	Resp:	4249
Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	16.5	11.5	17.3
68	9.7	7.0	10.4

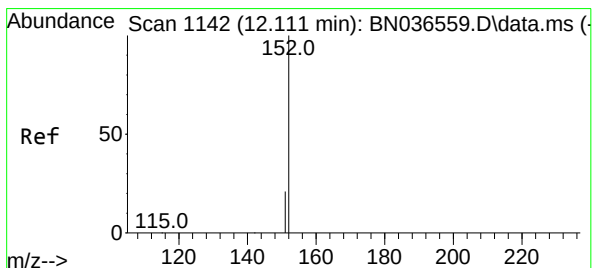
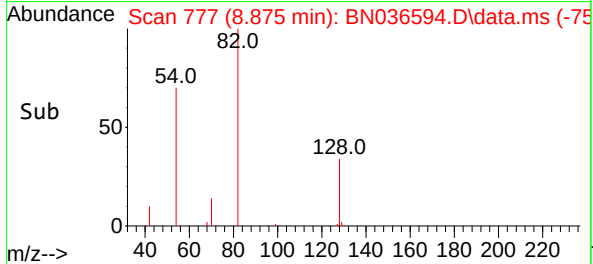
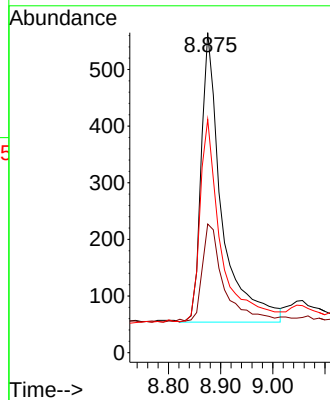
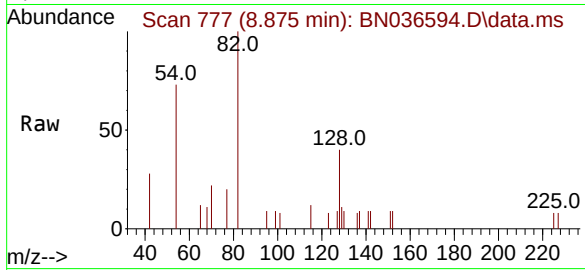




#8
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

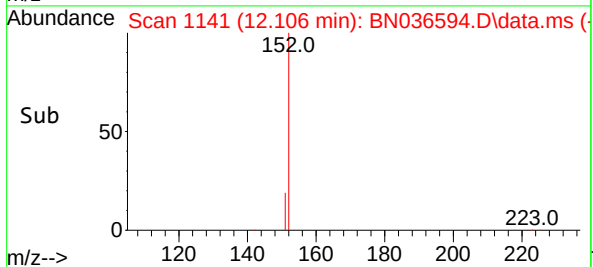
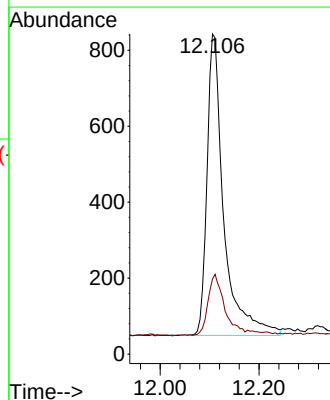
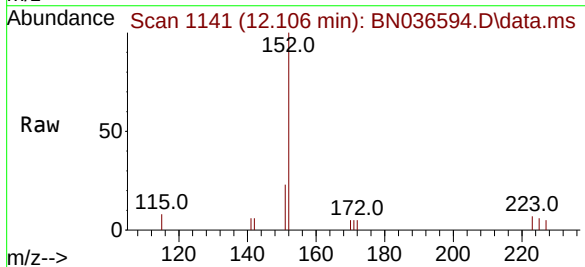
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

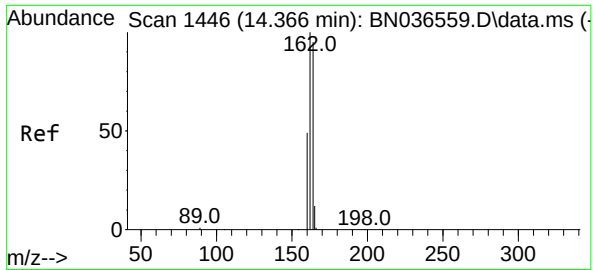
Tgt Ion:	82	Resp:	1399
Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.6	45.8
54	72.9	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.296 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion:	152	Resp:	1870
Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.0	25.6

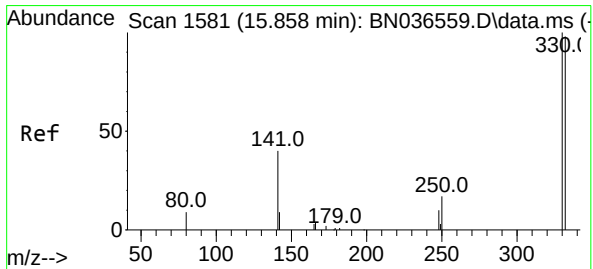
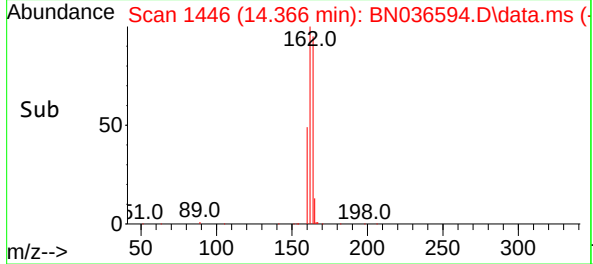
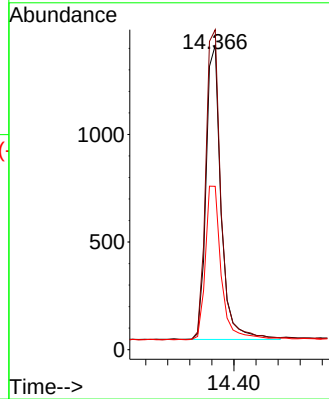
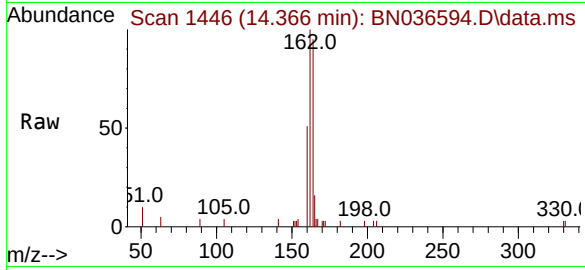




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

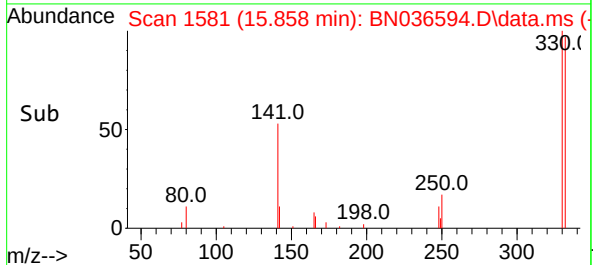
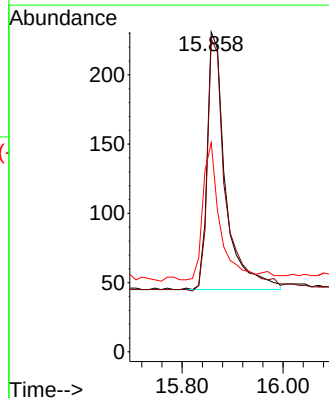
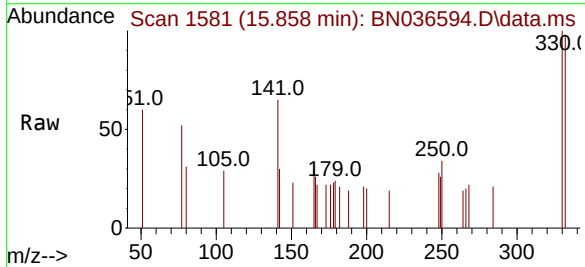
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

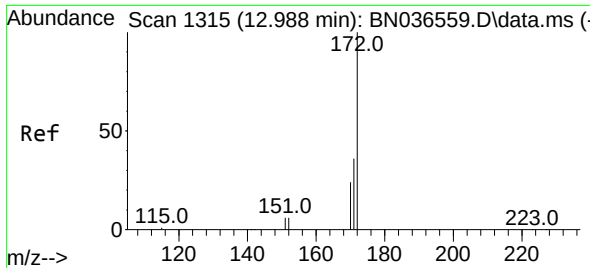
Tgt Ion:164 Resp: 2599
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 53.6 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion:330 Resp: 467
Ion Ratio Lower Upper
330 100
332 97.4 75.2 112.8
141 49.7 43.4 65.2

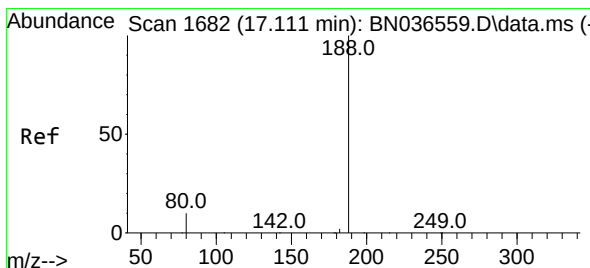
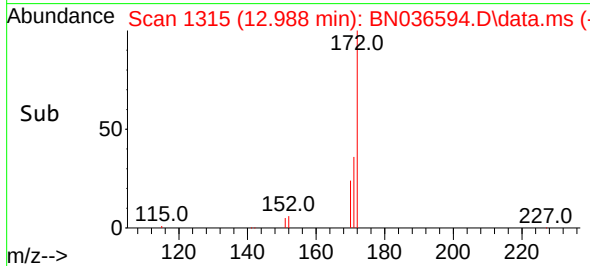
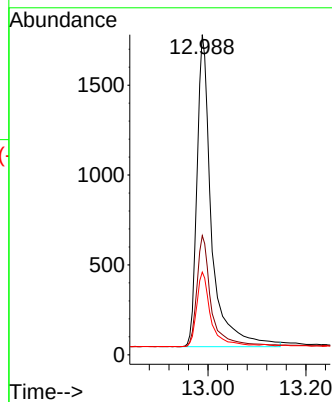
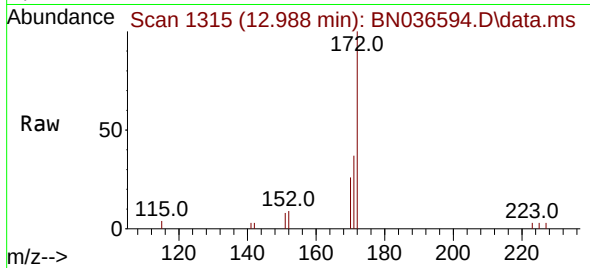




#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.988 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

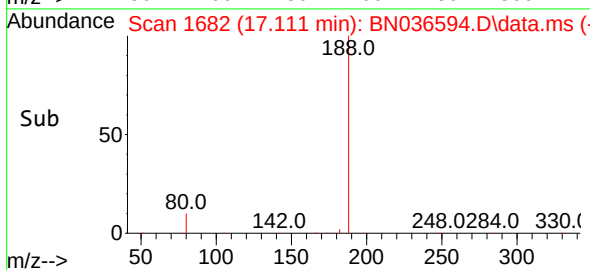
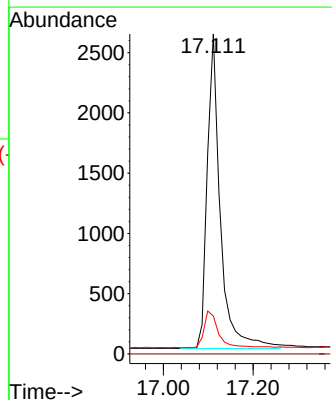
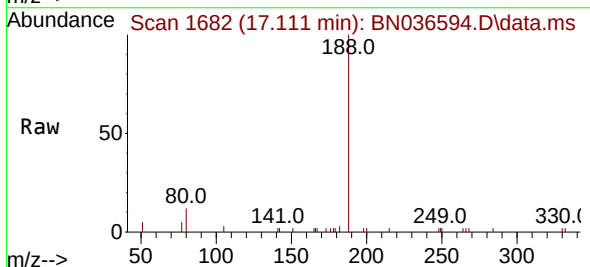
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

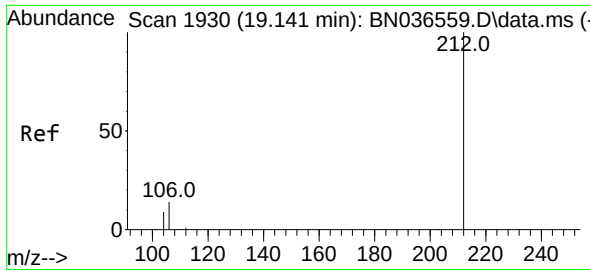
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.8	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.464 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036594.D

Acq: 12 Mar 2025 11:02

Instrument :

BNA_N

ClientSampleId :

RE104D2-20250307

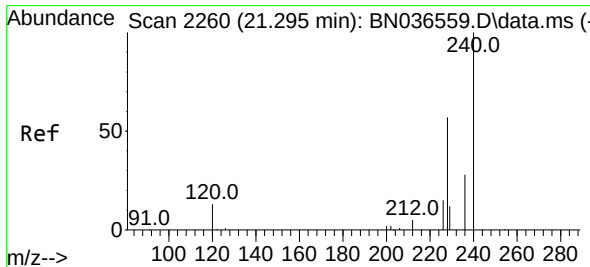
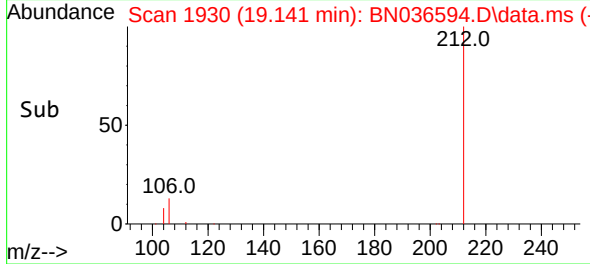
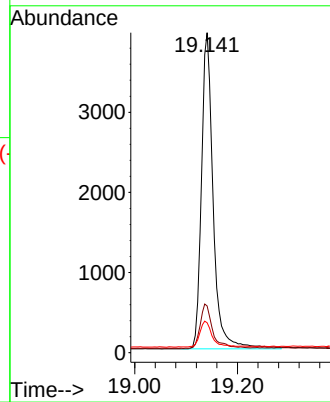
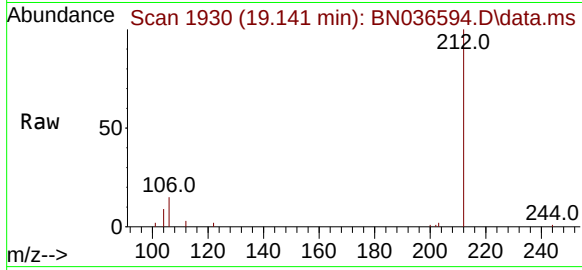
Tgt Ion:212 Resp: 6264

Ion Ratio Lower Upper

212 100

106 15.1 11.8 17.6

104 8.5 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036594.D

Acq: 12 Mar 2025 11:02

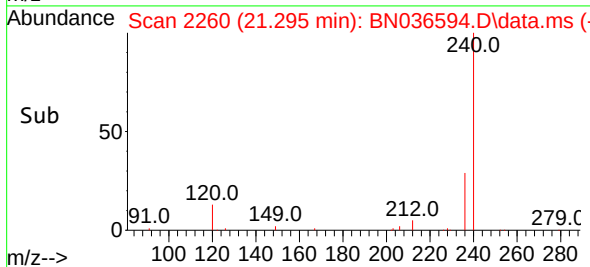
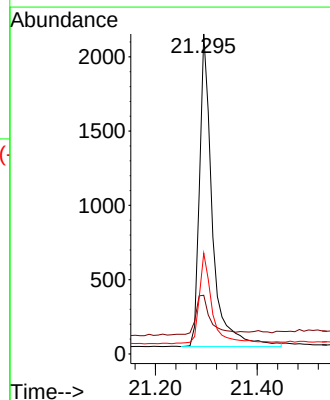
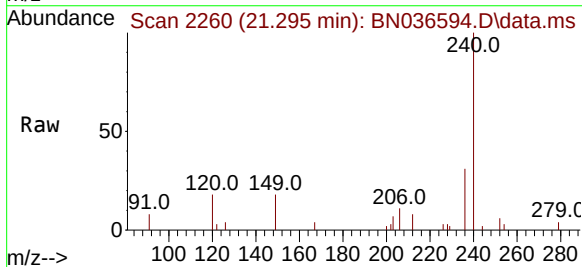
Tgt Ion:240 Resp: 3676

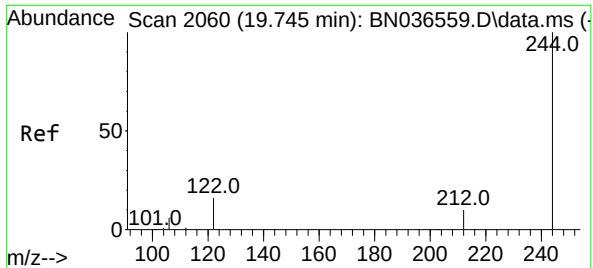
Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

236 31.5 24.1 36.1

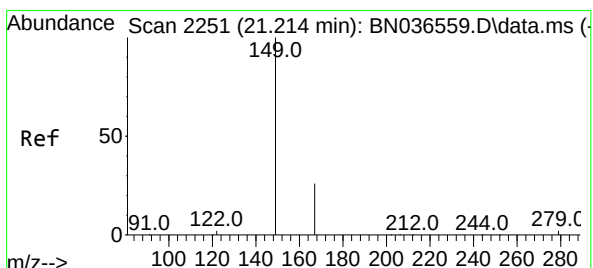
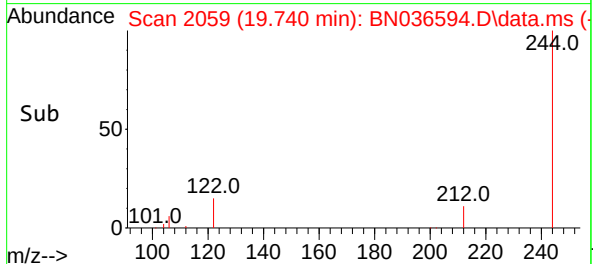
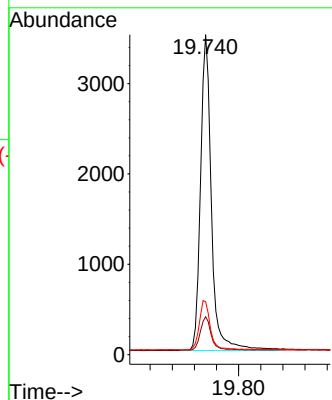
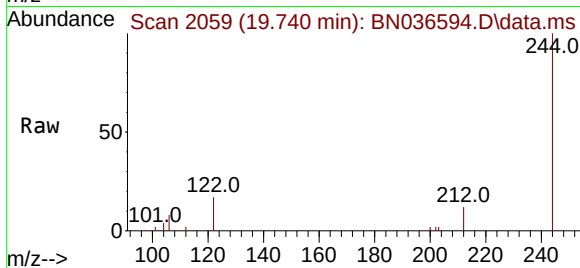




#31
Terphenyl-d14
Concen: 0.544 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

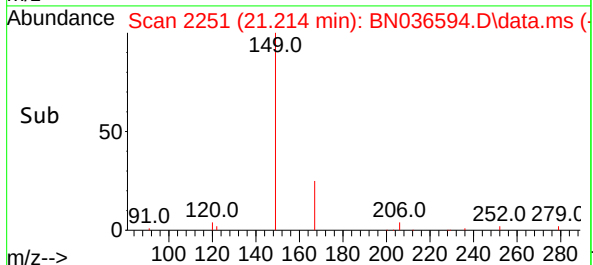
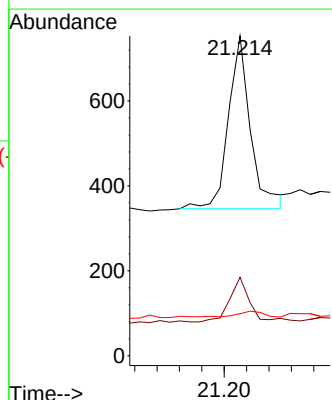
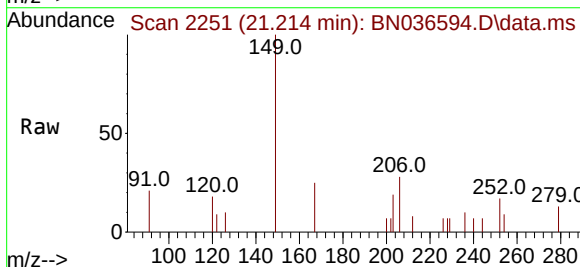
Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307

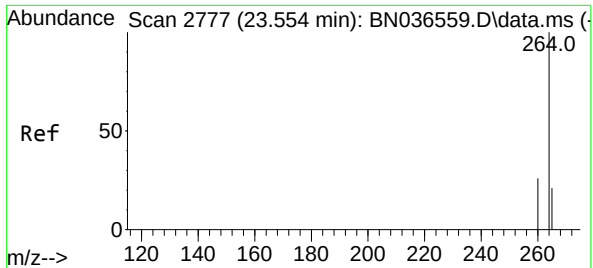
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	16.6	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.062 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

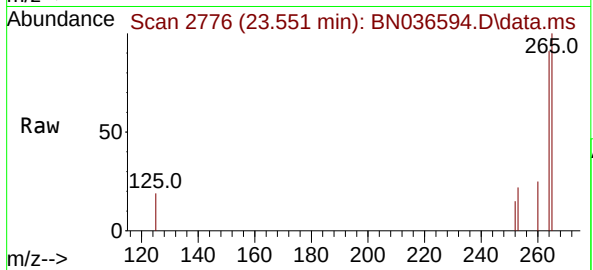
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.6	20.7	31.1
279	3.9	3.6	5.4



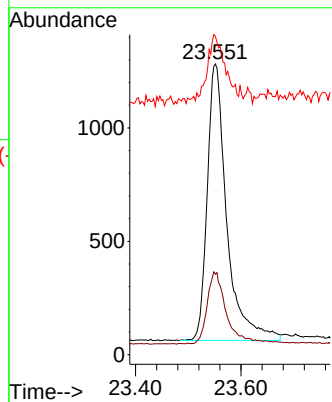
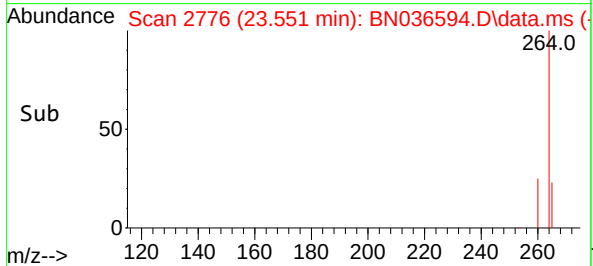


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036594.D
Acq: 12 Mar 2025 11:02

Instrument :
BNA_N
ClientSampleId :
RE104D2-20250307



Tgt Ion:264 Resp: 3141
Ion Ratio Lower Upper
264 100
260 27.7 22.6 33.8
265 109.5 88.1 132.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/07/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE104D3-20250307	SDG No.:	Q1531
Lab Sample ID:	Q1531-20	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
BN036595.D	1	03/10/25 11:35	03/12/25 11:38	PB167057

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		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	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	2340	7.724				
1146-65-2	Naphthalene-d8	5170	10.509				
15067-26-2	Acenaphthene-d10	3130	14.366				
1517-22-2	Phenanthrene-d10	6560	17.111				
1719-03-5	Chrysene-d12	4900	21.295				
1520-96-3	Perylene-d12	4320	23.552				

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\BN031225\
Data File : BN036595.D
Acq On : 12 Mar 2025 11:38
Operator : RC/JU
Sample : Q1531-20
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

Quant Time: Mar 12 12:23:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

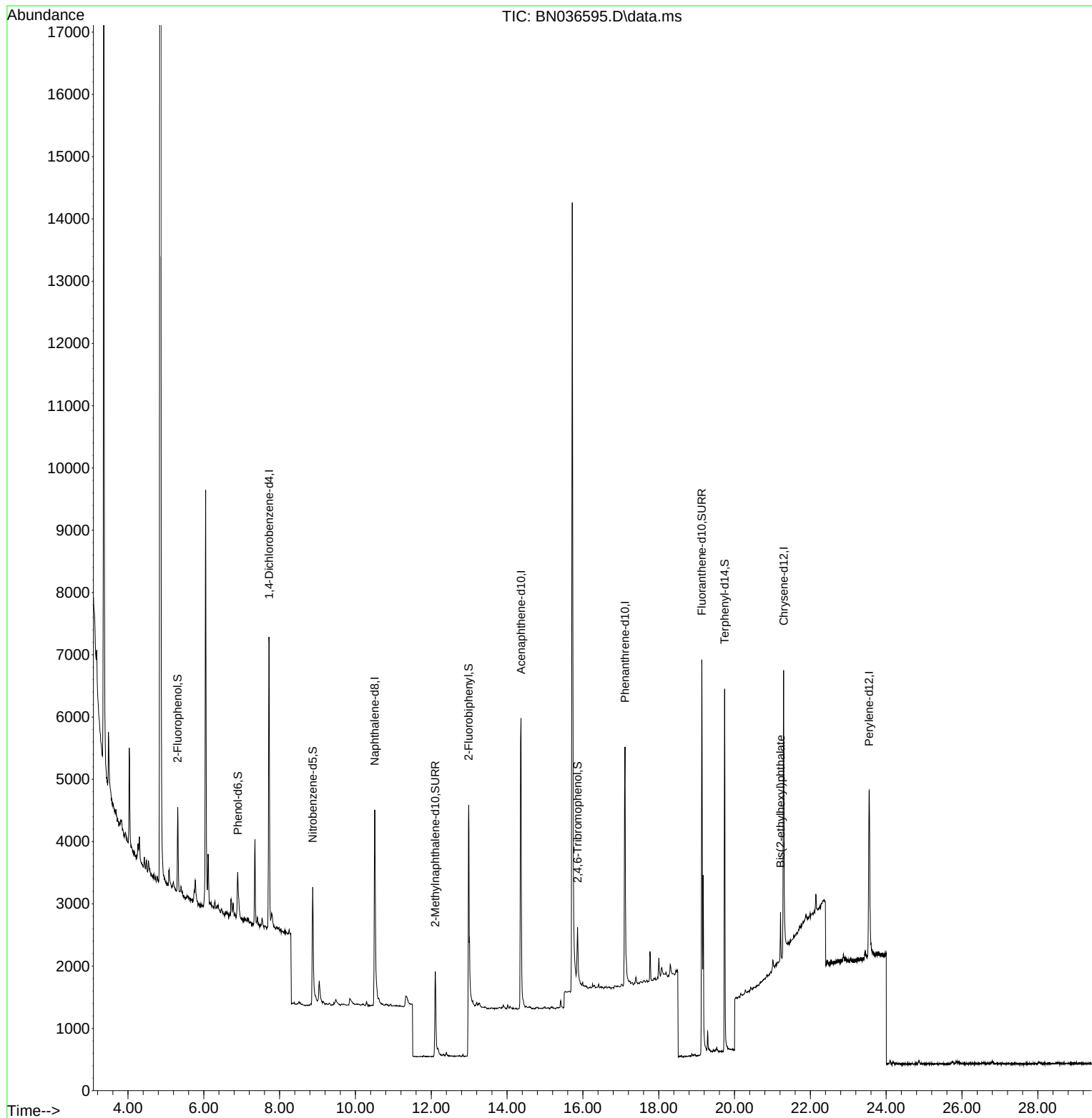
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2341	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5174	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3132	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6559	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4896	0.400	ng	0.00
35) Perylene-d12	23.552	264	4323	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	912	0.167	ng	0.00
5) Phenol-d6	6.901	99	625	0.093	ng	0.00
8) Nitrobenzene-d5	8.875	82	1972	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2534	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	571	0.402	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6503	0.357	ng	0.00
27) Fluoranthene-d10	19.136	212	7836	0.466	ng	0.00
31) Terphenyl-d14	19.740	244	5872	0.501	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	711	0.059	ng	Qvalue 100

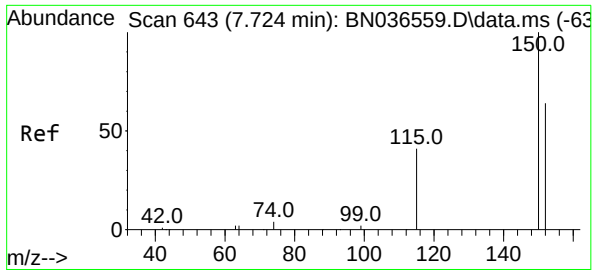
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036595.D
Acq On : 12 Mar 2025 11:38
Operator : RC/JU
Sample : Q1531-20
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

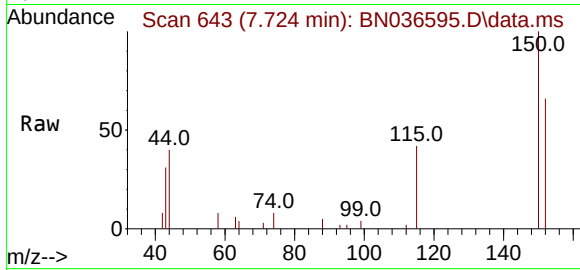
Quant Time: Mar 12 12:23:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



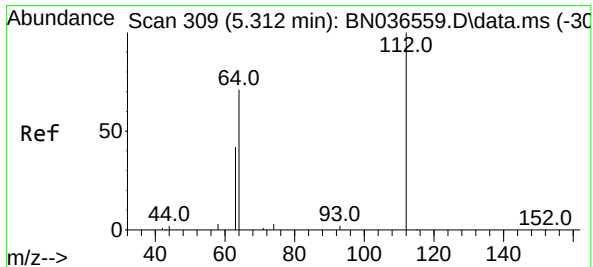
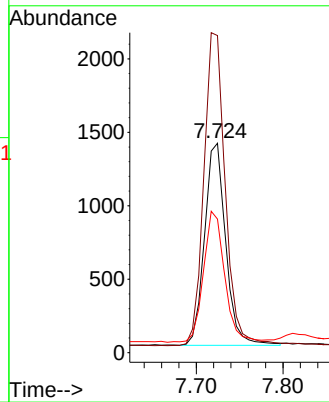
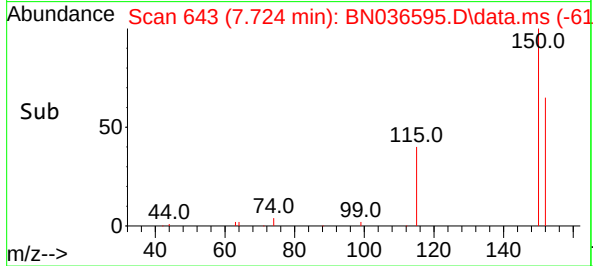


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 643
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

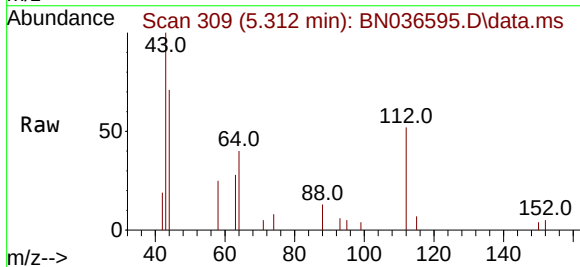
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307



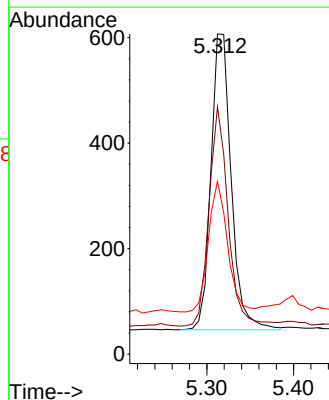
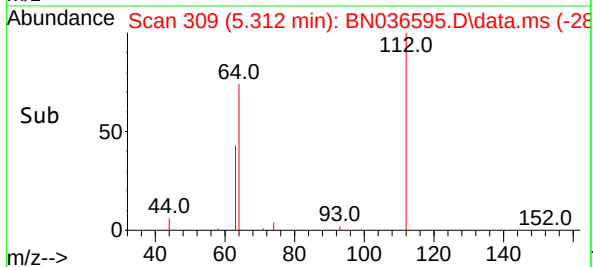
Tgt Ion:152 Resp: 2341
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 63.8 54.3 81.5

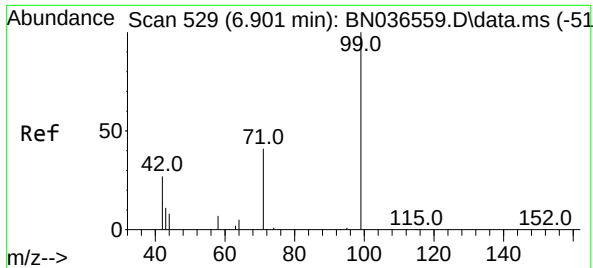


#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38



Tgt Ion:112 Resp: 912
Ion Ratio Lower Upper
112 100
64 70.0 53.1 79.7
63 41.4 31.8 47.8

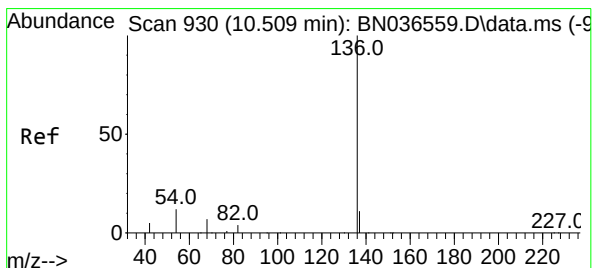
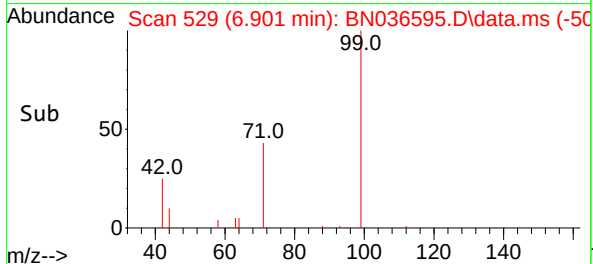
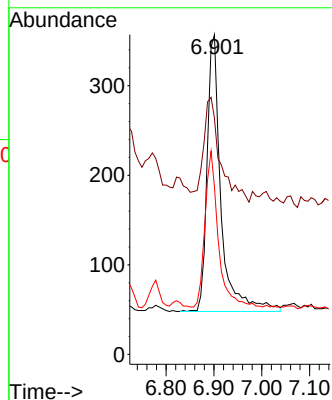
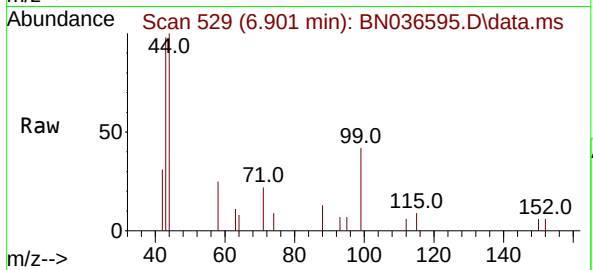




#5
Phenol-d6
Concen: 0.093 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

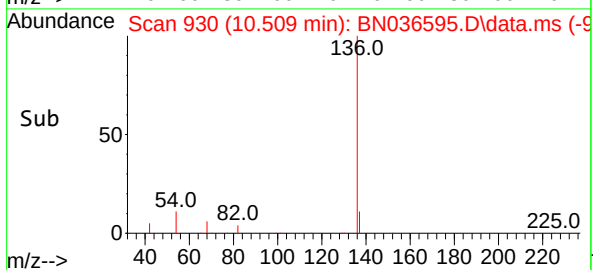
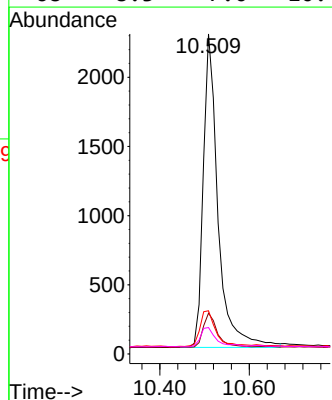
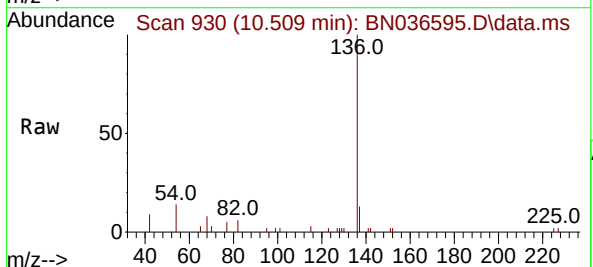
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

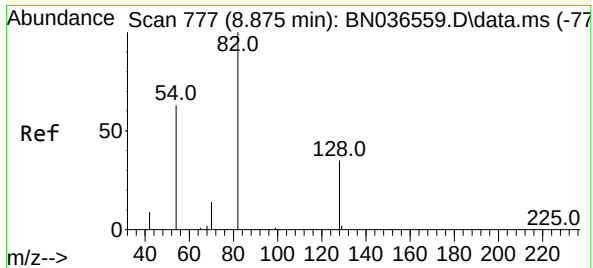
Tgt Ion: 99 Resp: 625
Ion Ratio Lower Upper
99 100
42 45.9 26.5 39.7#
71 54.1 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

Tgt Ion: 136 Resp: 5174
Ion Ratio Lower Upper
136 100
137 12.8 10.3 15.5
54 13.5 11.5 17.3
68 8.3 7.0 10.4

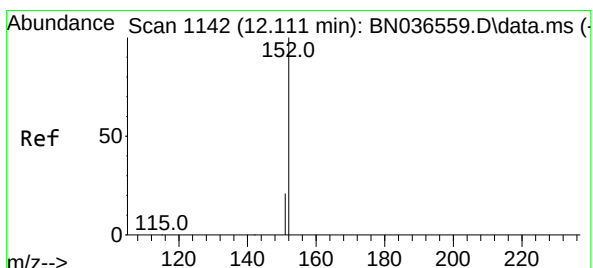
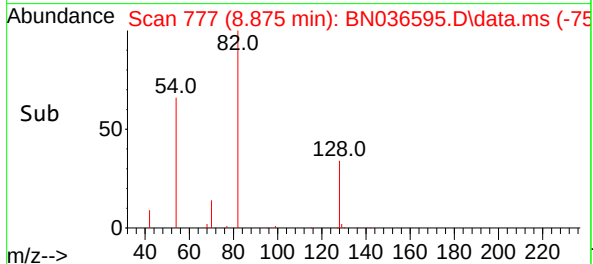
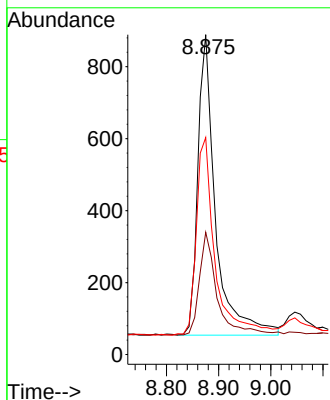
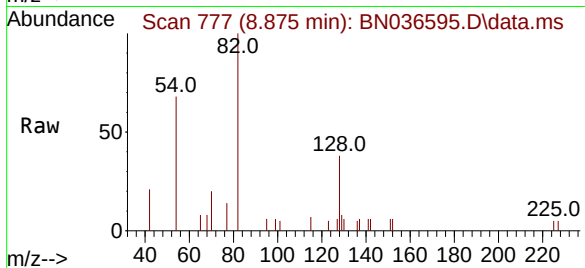




#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

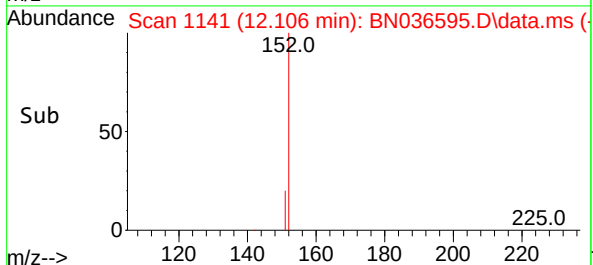
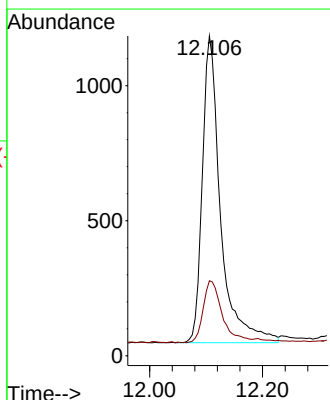
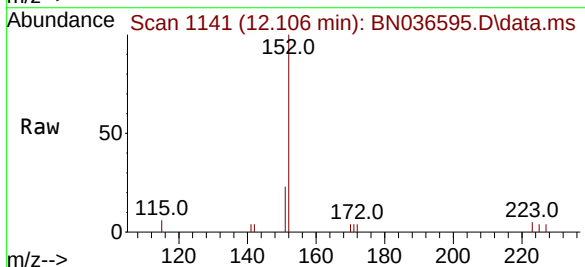
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

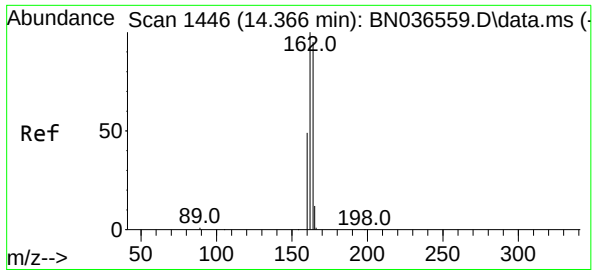
Tgt Ion: 82 Resp: 1972
Ion Ratio Lower Upper
82 100
128 38.2 30.6 45.8
54 67.8 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

Tgt Ion: 152 Resp: 2534
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6

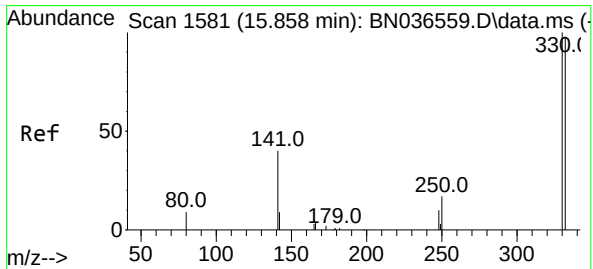
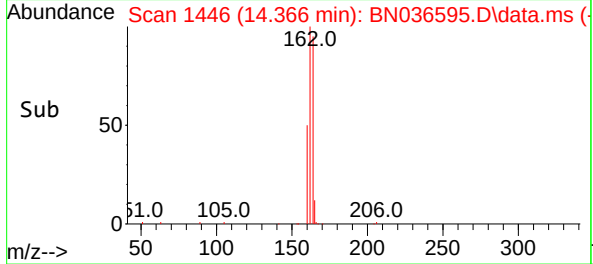
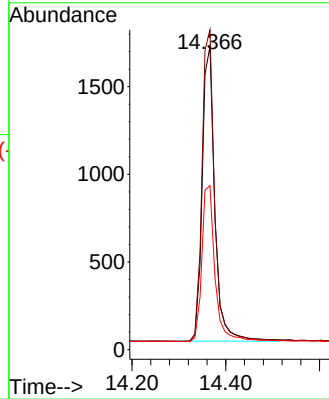
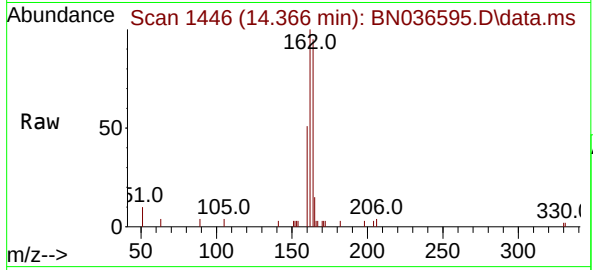




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

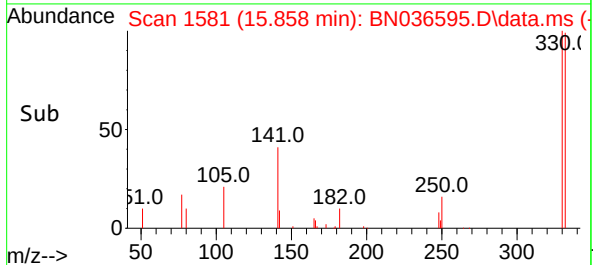
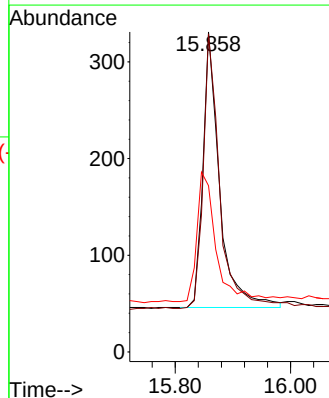
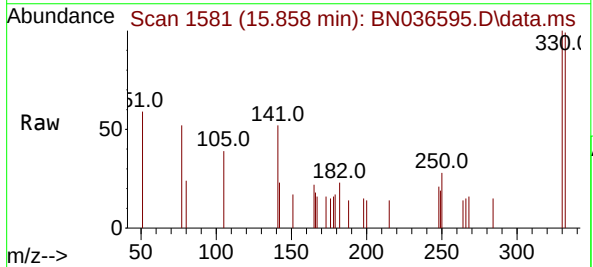
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

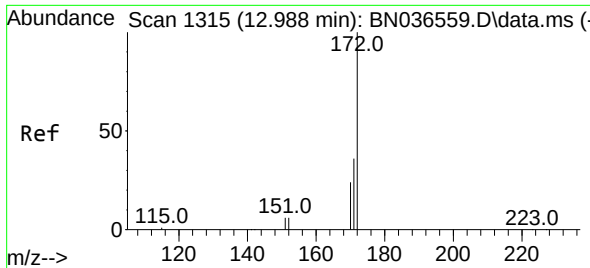
Tgt Ion:164 Resp: 3132
Ion Ratio Lower Upper
164 100
162 105.6 84.2 126.2
160 54.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

Tgt Ion:330 Resp: 571
Ion Ratio Lower Upper
330 100
332 100.4 75.2 112.8
141 56.4 43.4 65.2

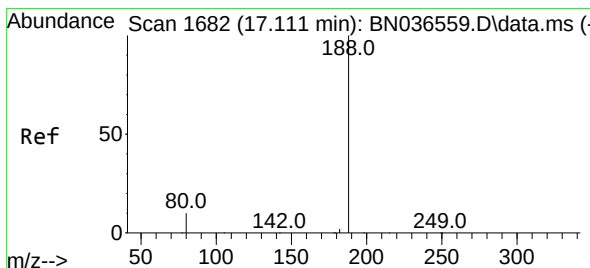
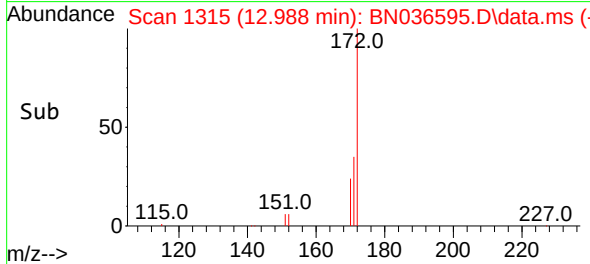
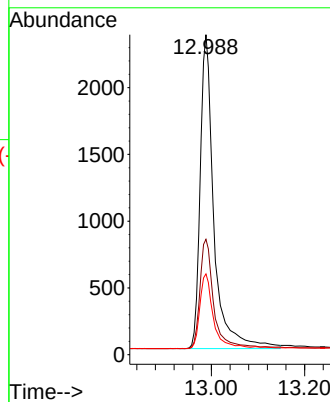
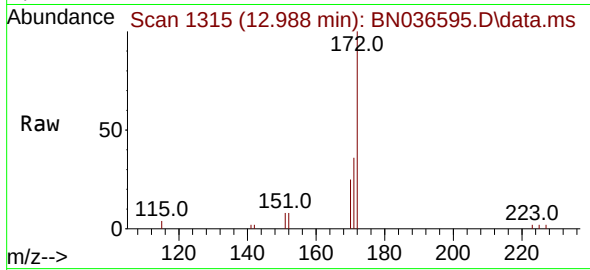




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

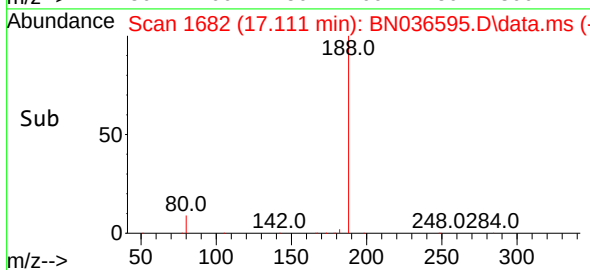
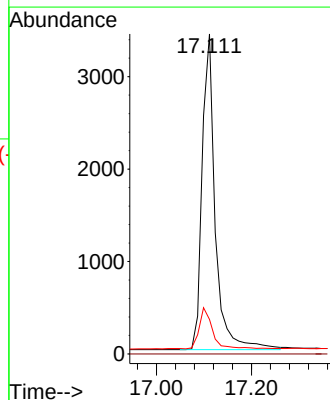
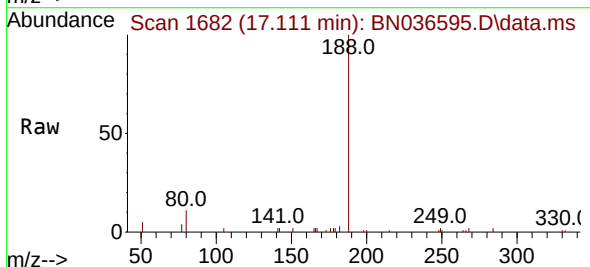
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

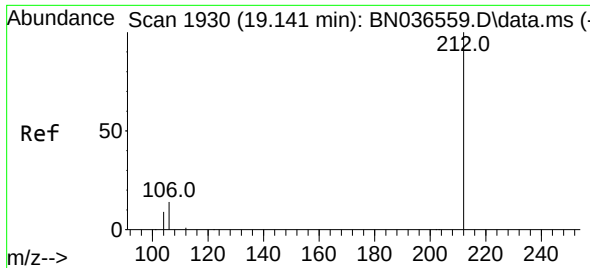
Tgt Ion:	172	Resp:	6503
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.5	44.3
170	25.2	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

Tgt Ion:	188	Resp:	6559
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.8	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.466 ng

RT: 19.136 min Scan# 19

Delta R.T. -0.004 min

Lab File: BN036595.D

Acq: 12 Mar 2025 11:38

Instrument :

BNA_N

ClientSampleId :

RE104D3-20250307

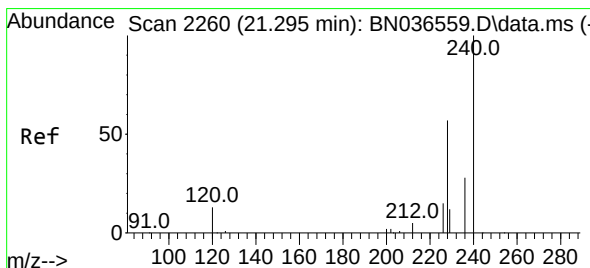
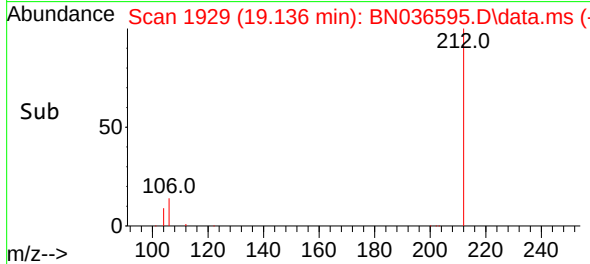
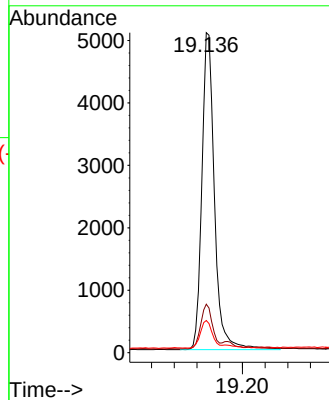
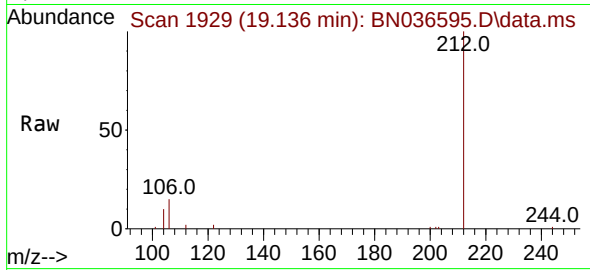
Tgt Ion:212 Resp: 7836

Ion Ratio Lower Upper

212 100

106 13.3 11.8 17.6

104 8.2 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN036595.D

Acq: 12 Mar 2025 11:38

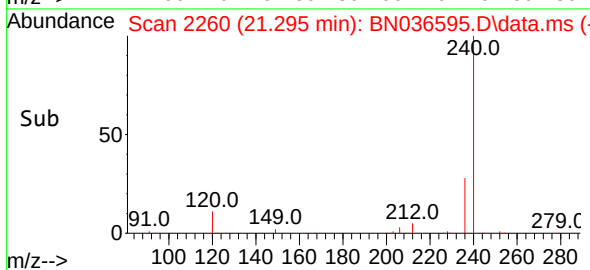
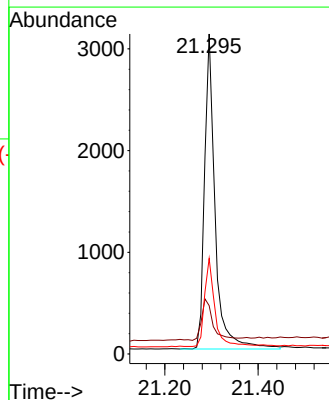
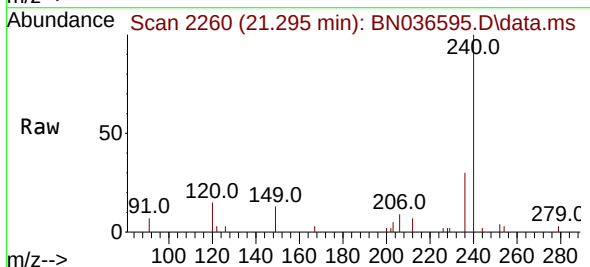
Tgt Ion:240 Resp: 4896

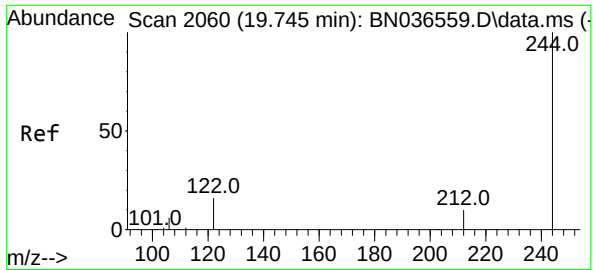
Ion Ratio Lower Upper

240 100

120 15.1 14.6 22.0

236 29.9 24.1 36.1

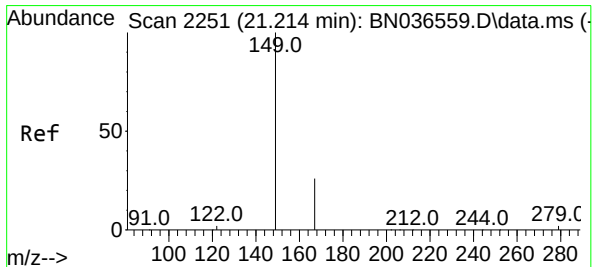
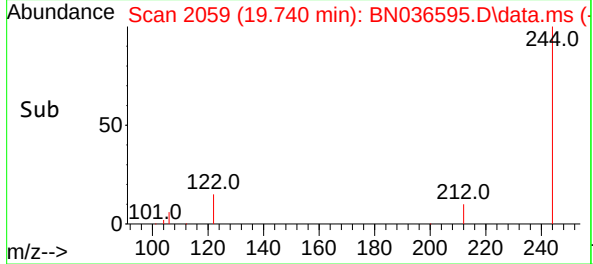
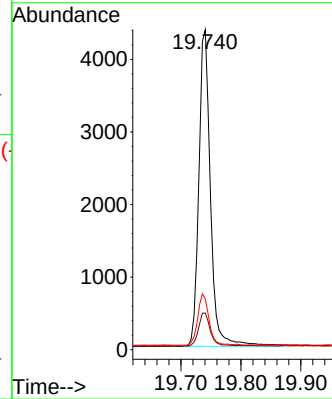
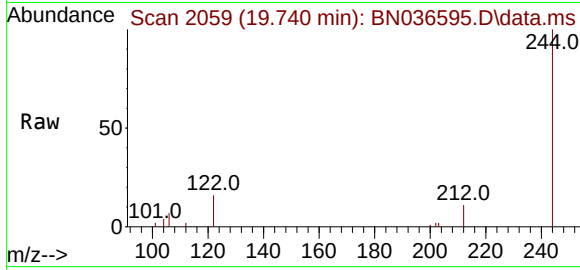




#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

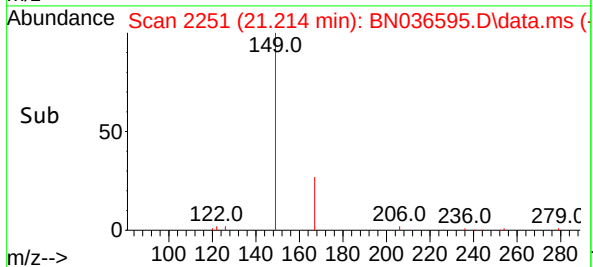
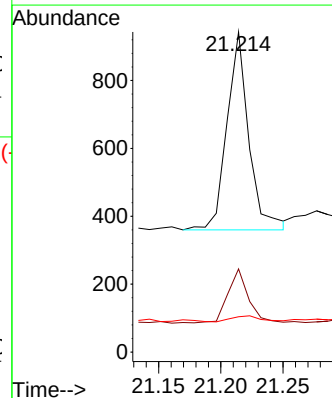
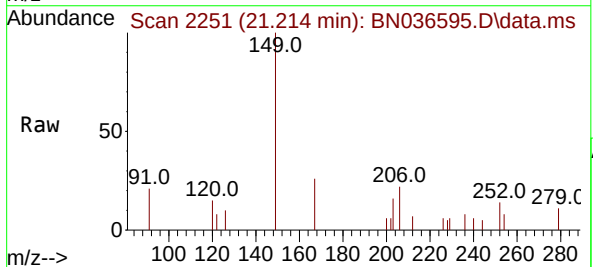
Instrument :
BNA_N
ClientSampleId :
RE104D3-20250307

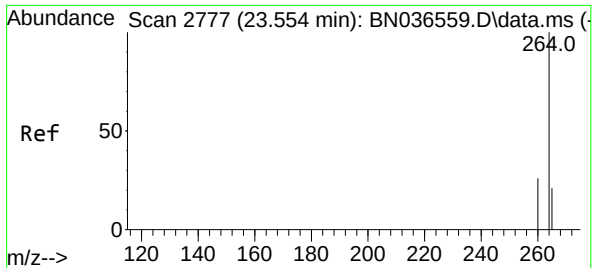
Tgt Ion:244	Resp:	5872
Ion Ratio	Lower	Upper
244	100	
212	11.5	9.6 14.4
122	15.9	13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036595.D
Acq: 12 Mar 2025 11:38

Tgt Ion:149	Resp:	711
Ion Ratio	Lower	Upper
149	100	
167	25.9	20.7 31.1
279	4.2	3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036595.D

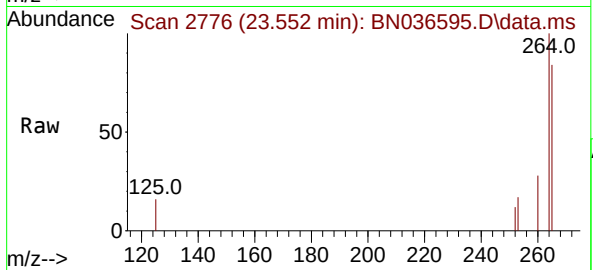
Acq: 12 Mar 2025 11:38

Instrument :

BNA_N

ClientSampleId :

RE104D3-20250307



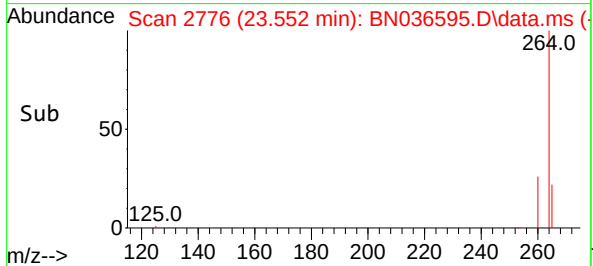
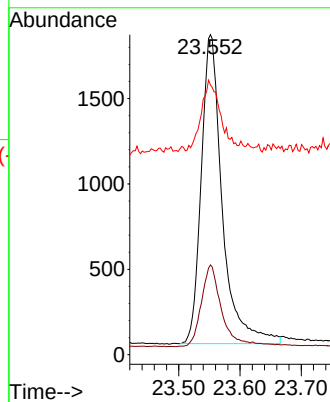
Tgt Ion:264 Resp: 4323

Ion Ratio Lower Upper

264 100

260 28.1 22.6 33.8

265 84.3 88.1 132.1#





CALIBRATION SUMMARY

1
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN031025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Mar 10 16:06:28 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)	n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4) S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5) S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)	bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)	Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)	Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11) SURR2	Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)	2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15) S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)	Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)	Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)	Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.057	0.077	0.075	0.088	0.110	0.111	0.086		24.66
21)	4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)	Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)	Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)	Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)	Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)	Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27) SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)	Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31) S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)	Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)	Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)	Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN031025.M

36)	Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)	Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)	Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39) C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)	Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)	Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/11/2025
 Supervised By :Jagrut Upadhyay 03/11/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	299m	0.098	ng	
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

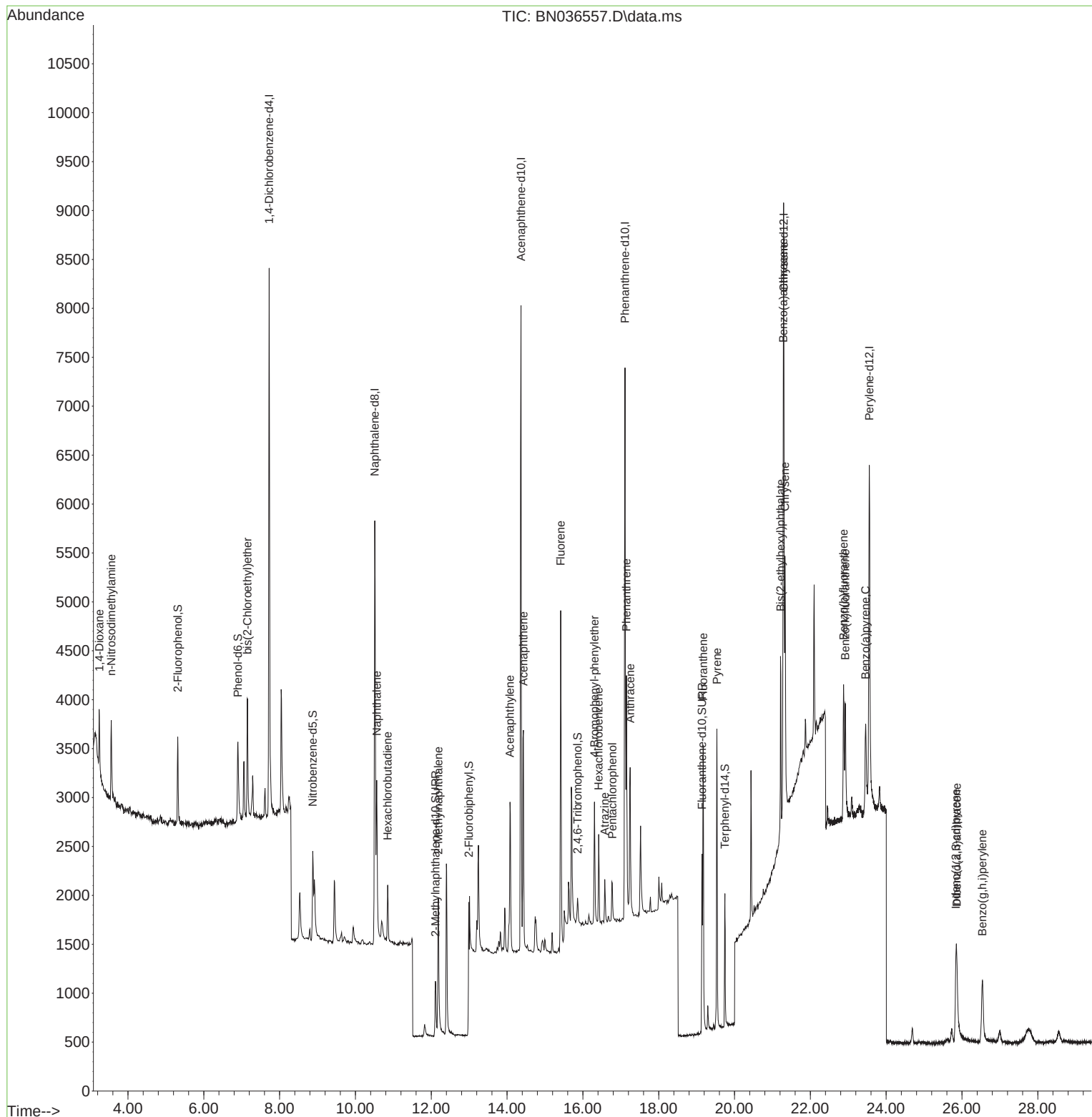
Manual Integrations

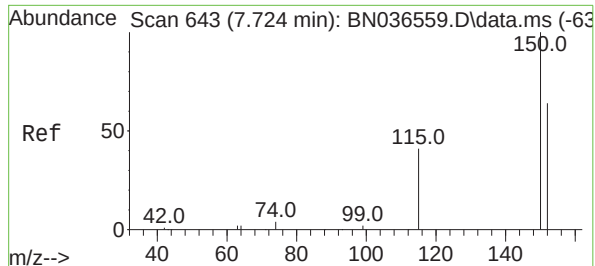
APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

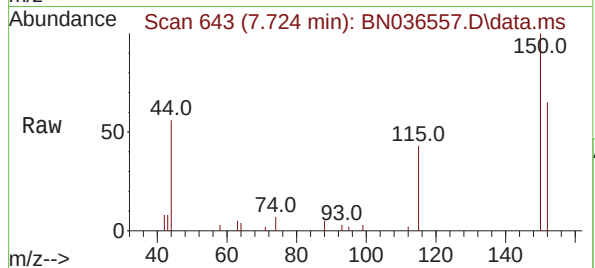
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

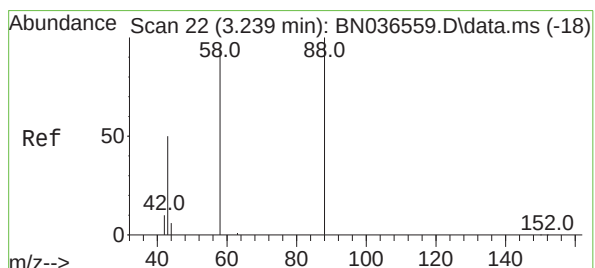
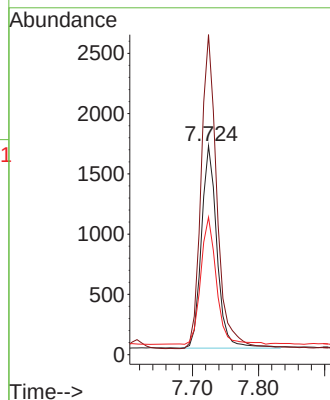
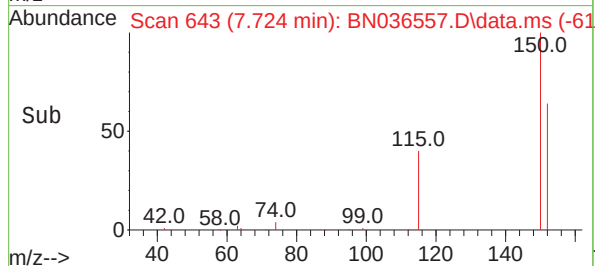
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 275
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.8 54.3 81.5

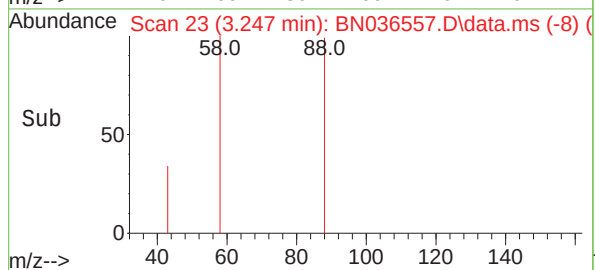
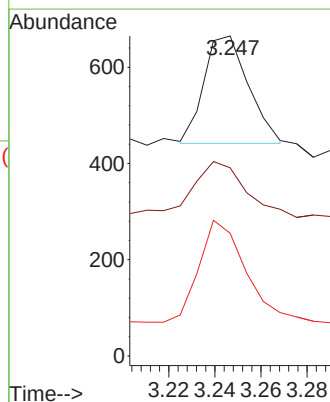
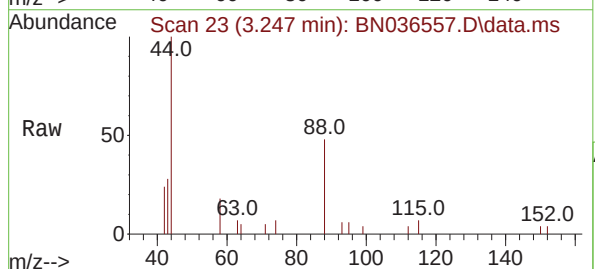
Manual Integrations
APPROVED

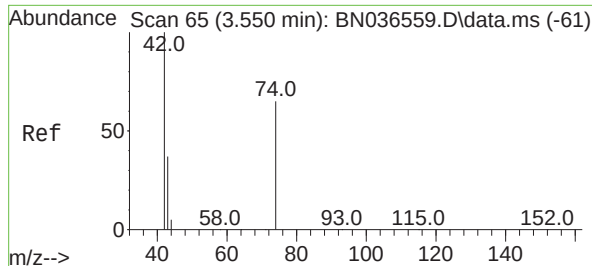
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 94.6 37.8 56.8#
58 102.3 67.4 101.2#





#3

n-Nitrosodimethylamine

Concen: 0.124 ng

RT: 3.557 min Scan# 6

Delta R.T. 0.007 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

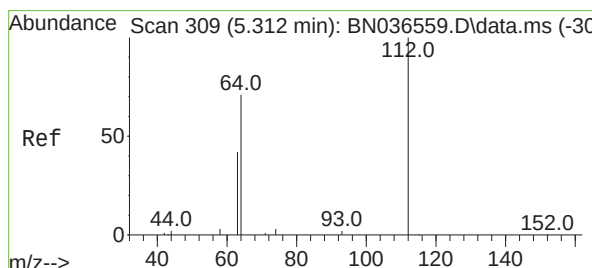
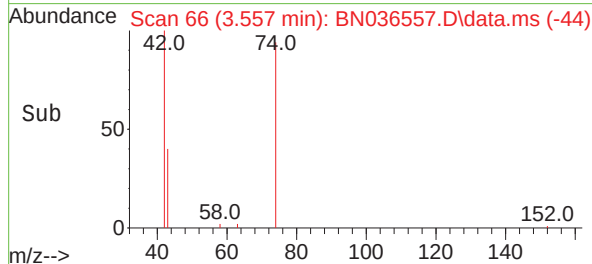
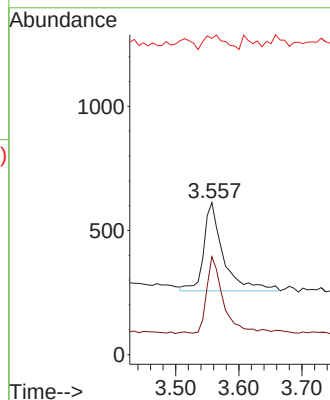
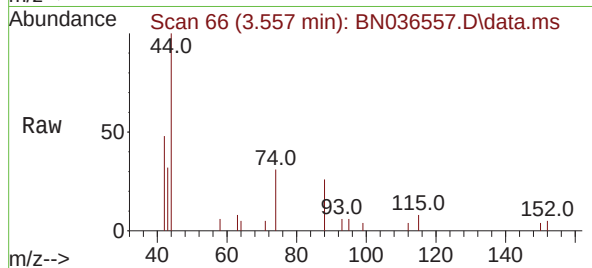
ClientSampleId :

SSTDICC0.1

Tgt Ion: 42 Resp: 760
Ion Ratio Lower Upper
42 100
74 73.0 60.6 90.8
44 16.6 6.3 9.5

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4

2-Fluorophenol

Concen: 0.100 ng

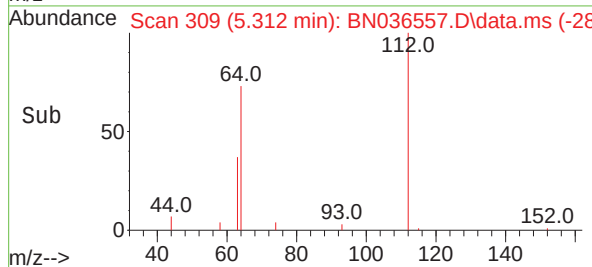
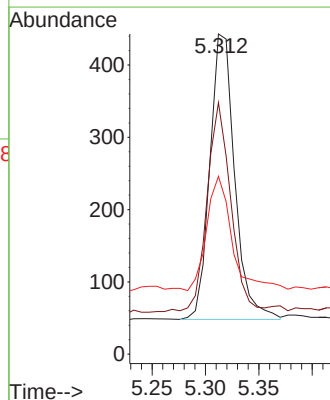
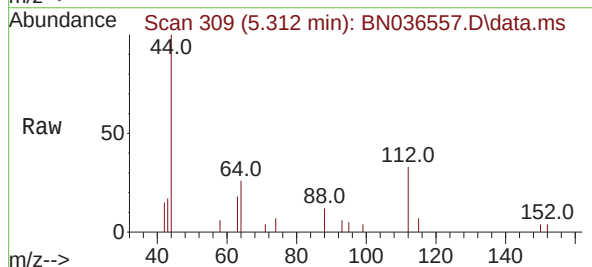
RT: 5.312 min Scan# 309

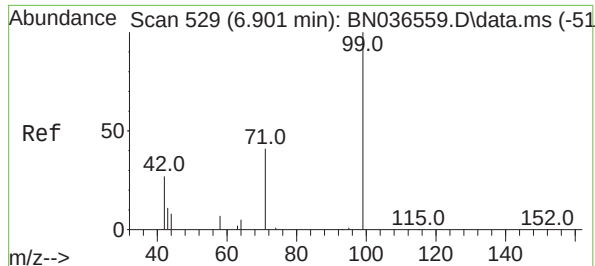
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

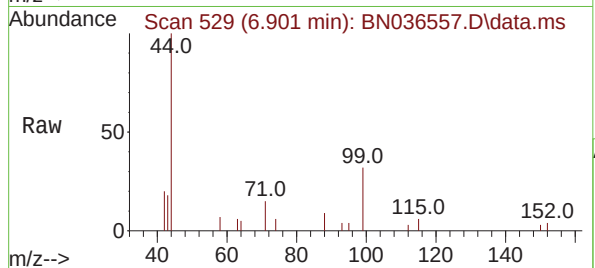
Tgt Ion:112 Resp: 641
Ion Ratio Lower Upper
112 100
64 70.4 53.1 79.7
63 40.9 31.8 47.8





#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

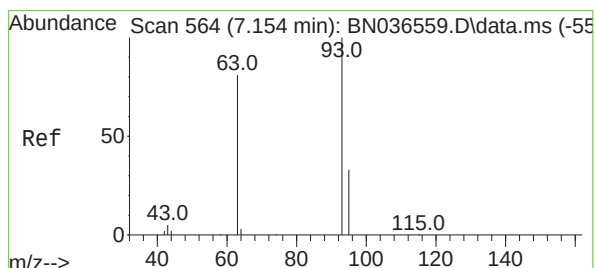
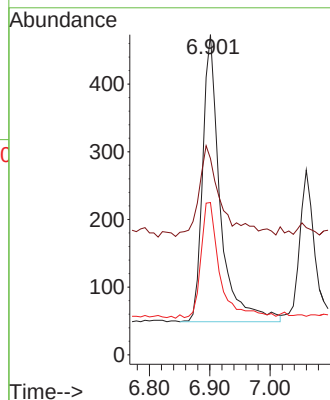
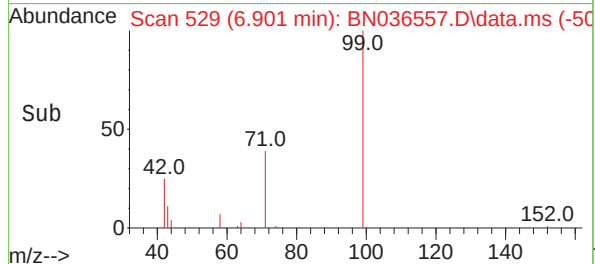
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 850
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7
71 42.8 34.1 51.1

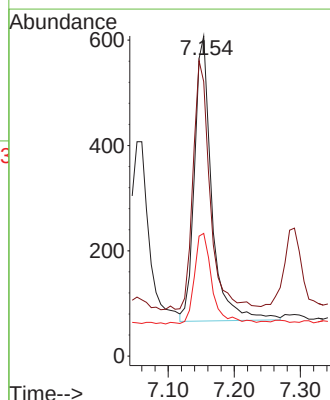
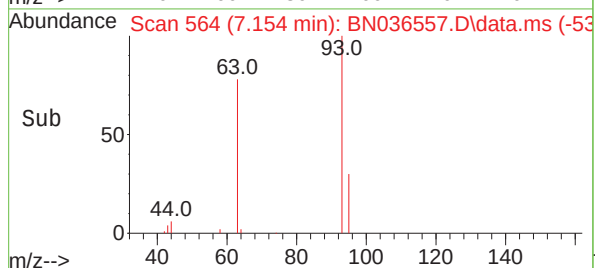
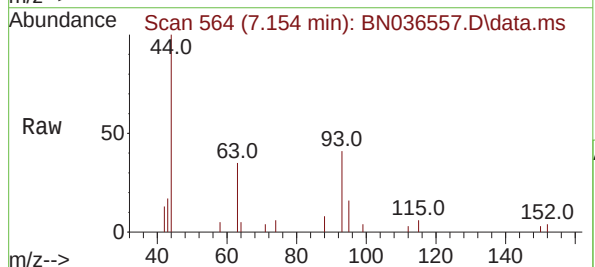
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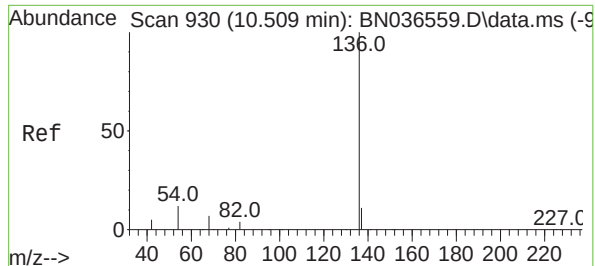
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

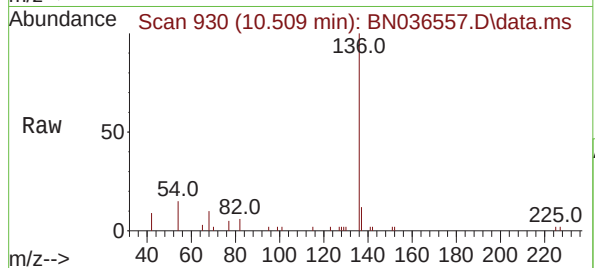
Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

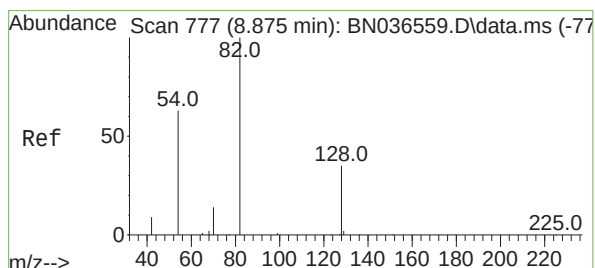
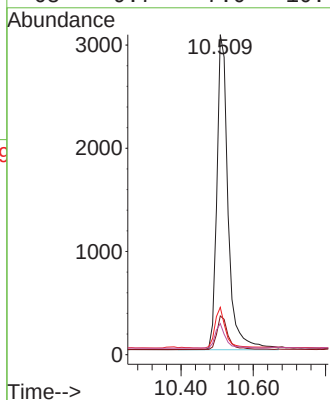
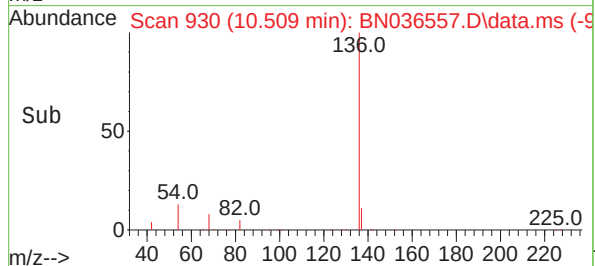
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:136 Resp: 6574
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 14.8 11.5 17.3
68 9.7 7.0 10.4

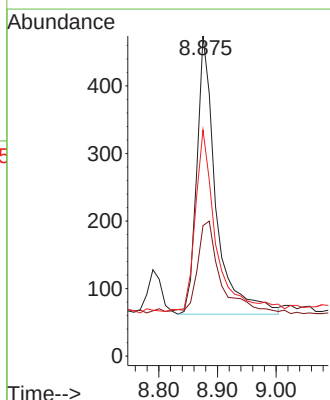
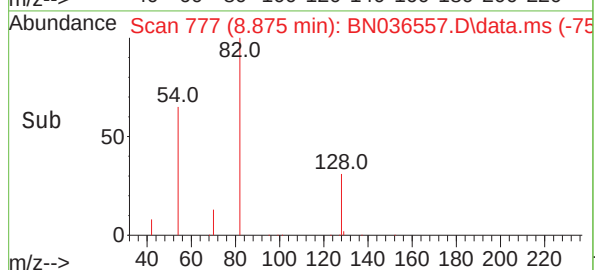
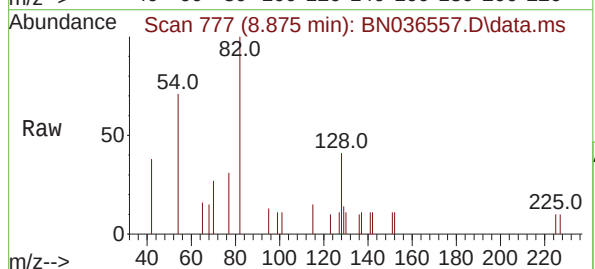
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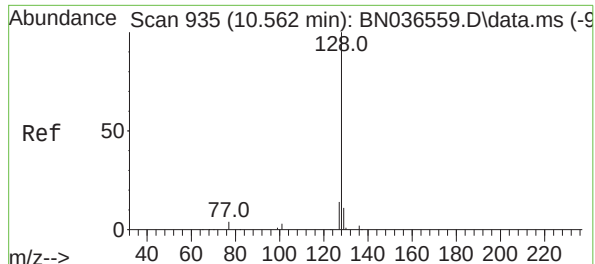
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940
Ion Ratio Lower Upper
82 100
128 40.7 30.6 45.8
54 70.7 52.2 78.4





#9

Naphthalene

Concen: 0.117 ng

RT: 10.562 min Scan# 935

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

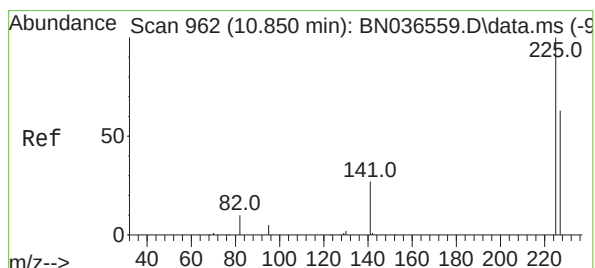
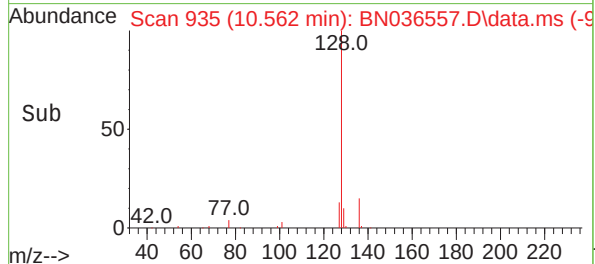
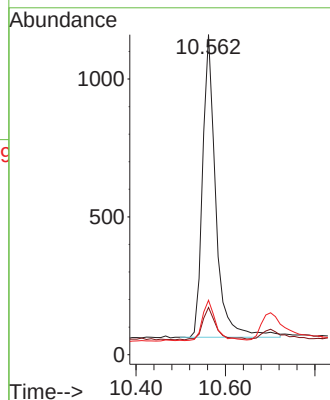
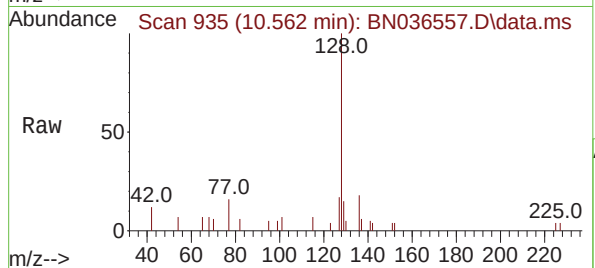
ClientSampleId :

SSTDICC0.1

Tgt Ion:	128	Resp:	225
Ion Ratio	Lower	Upper	
128	100		
129	14.7	9.8	14.6
127	17.0	11.8	17.8

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10

Hexachlorobutadiene

Concen: 0.107 ng

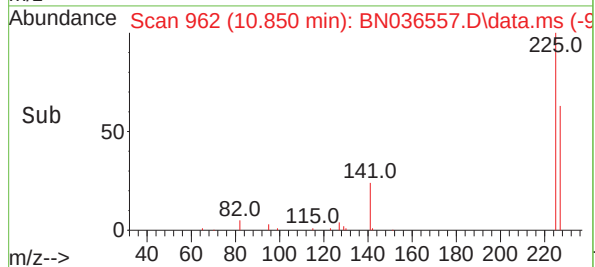
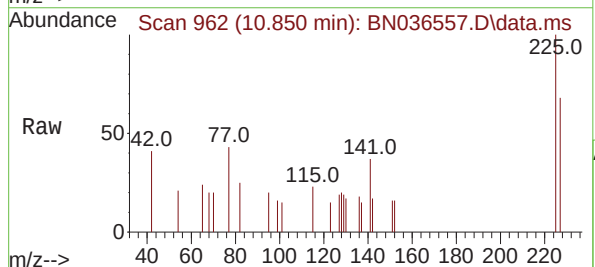
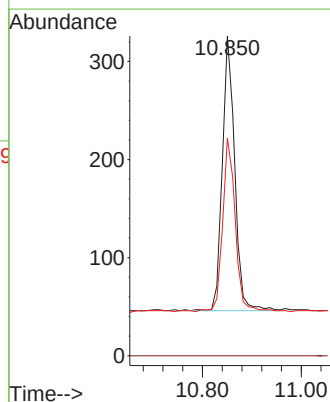
RT: 10.850 min Scan# 962

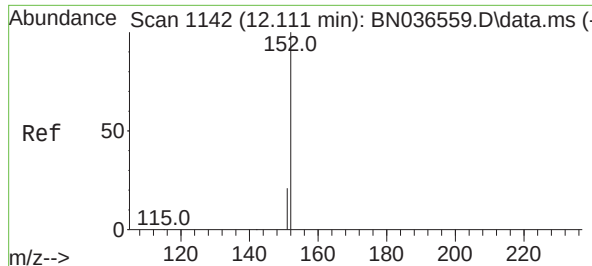
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

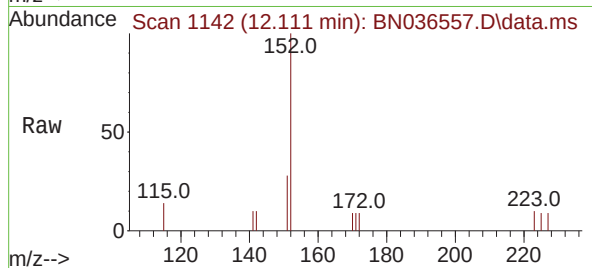
Tgt Ion:	225	Resp:	486
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

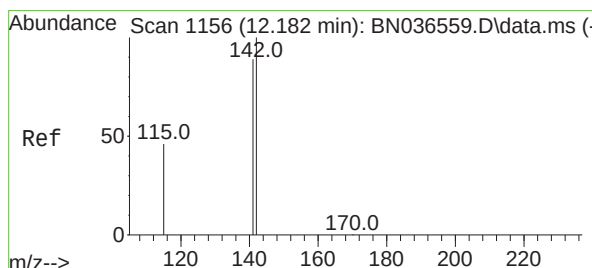
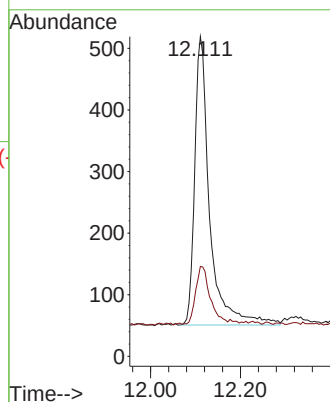
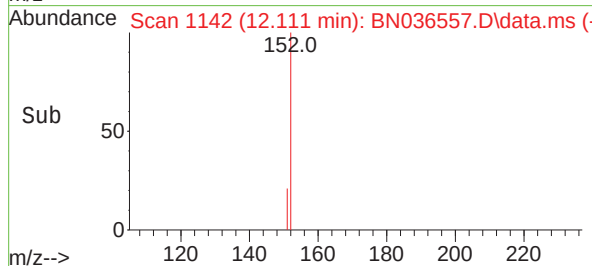
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6

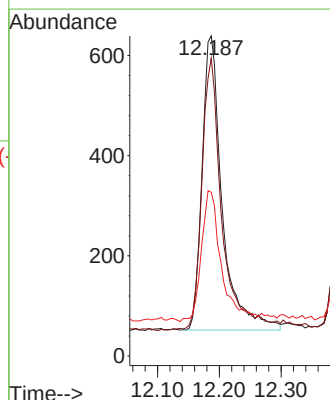
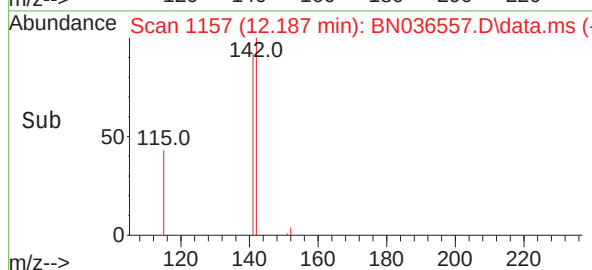
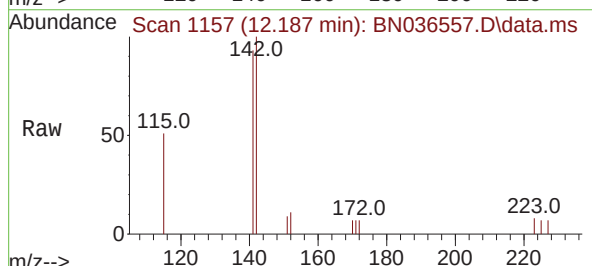
Manual Integrations
APPROVED

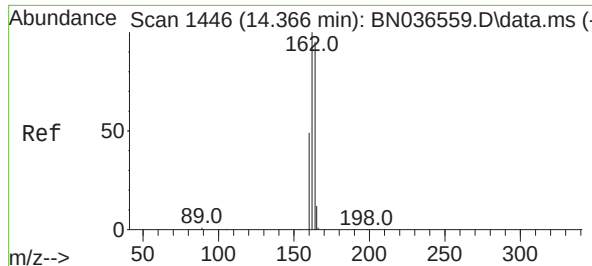
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

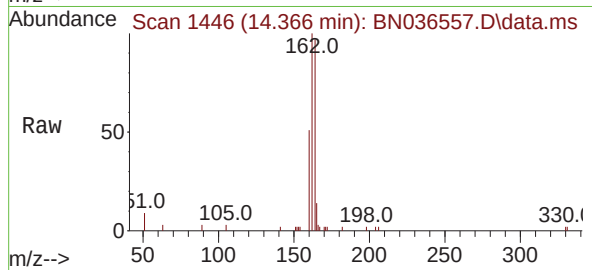
Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

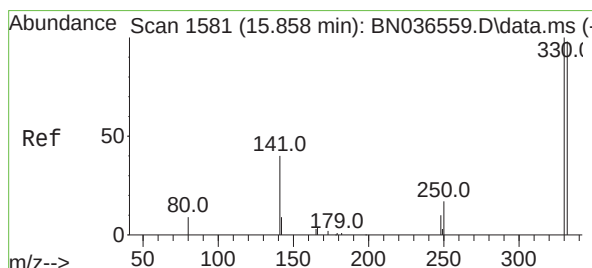
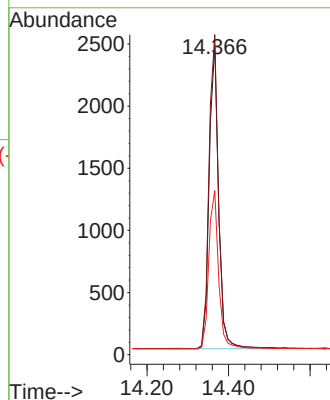
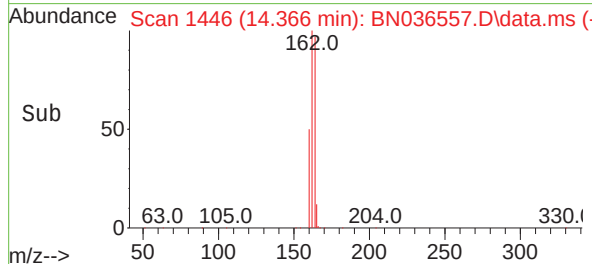
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



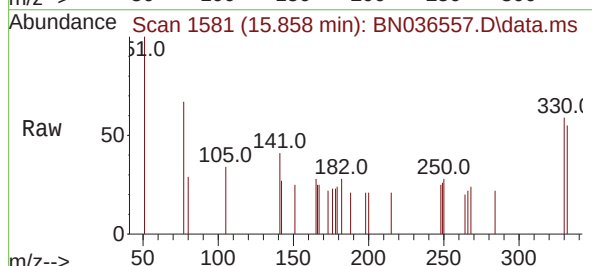
Tgt Ion:164 Resp: 395
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 53.0 42.2 63.2

Manual Integrations
APPROVED

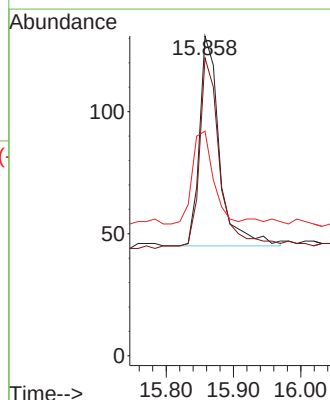
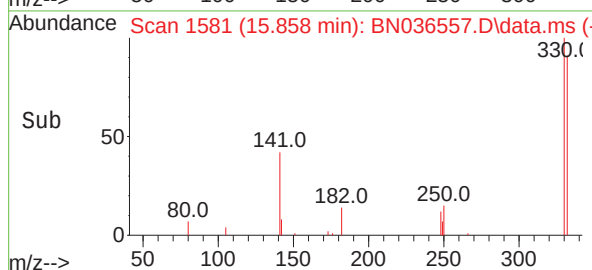
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

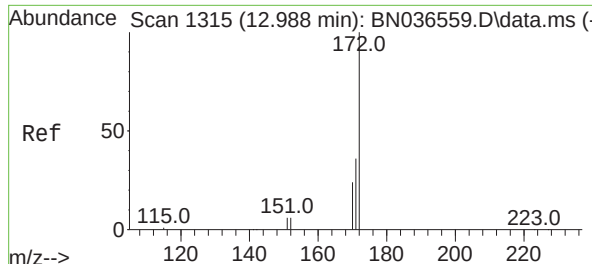


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42



Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 46.4 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.095 ng

RT: 12.993 min Scan# 1419

Delta R.T. 0.005 min

Lab File: BN036557.D

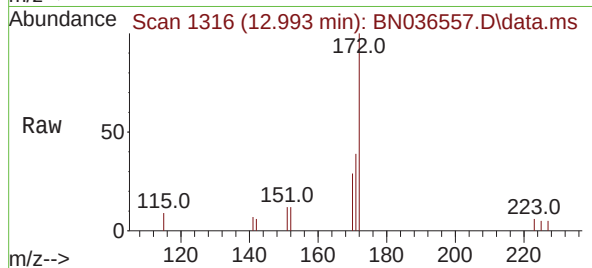
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:172 Resp: 218

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

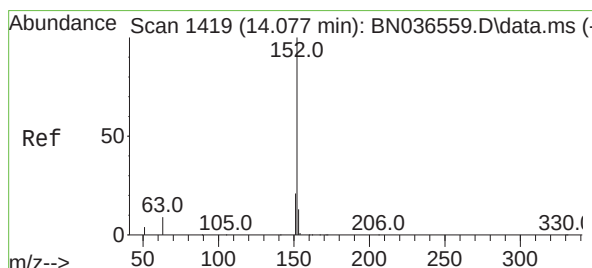
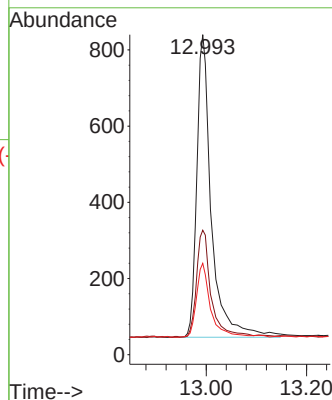
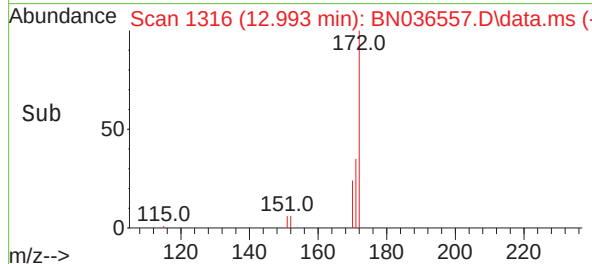
170 28.6 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#16

Acenaphthylene

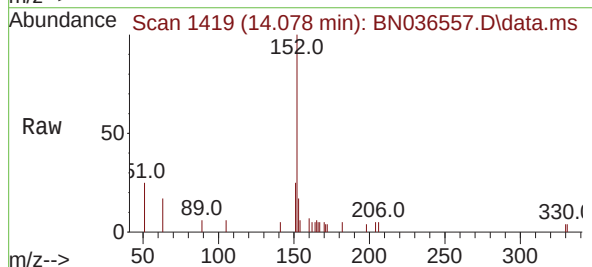
Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



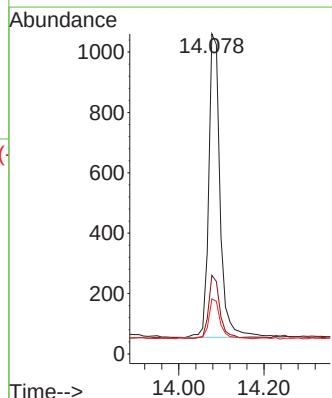
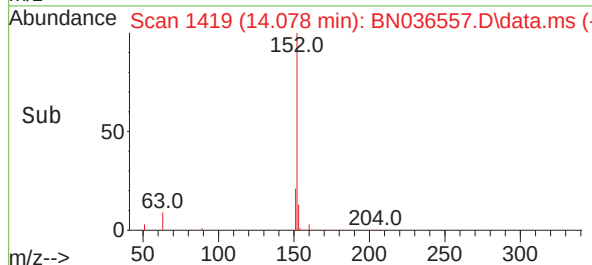
Tgt Ion:152 Resp: 1862

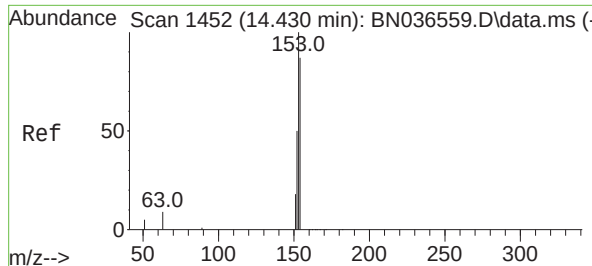
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

153 14.1 10.6 15.8





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036557.D

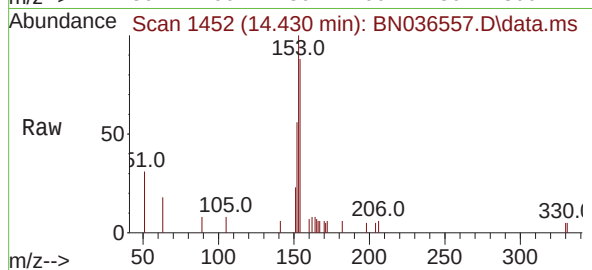
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

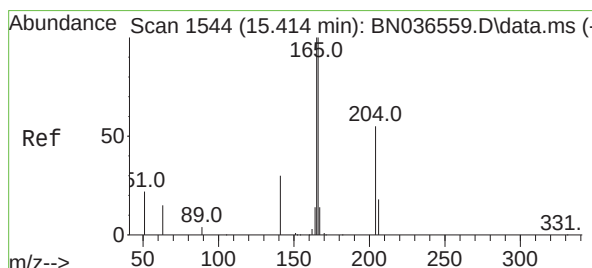
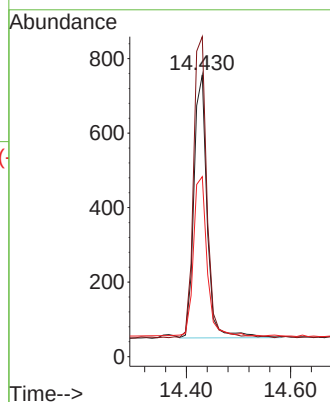
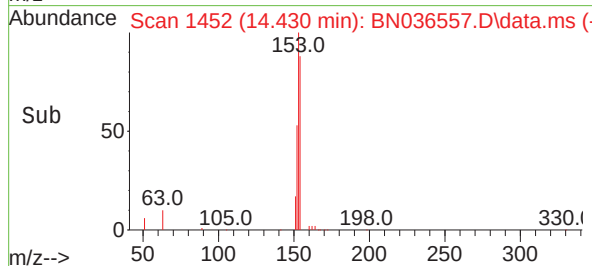
SSTDICC0.1



Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18

Fluorene

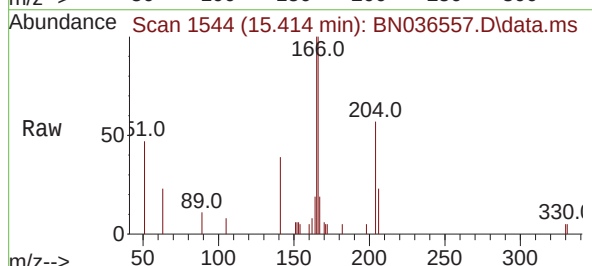
Concen: 0.097 ng

RT: 15.414 min Scan# 1544

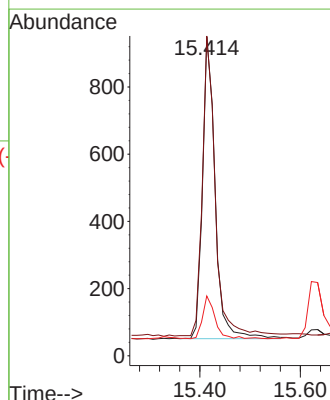
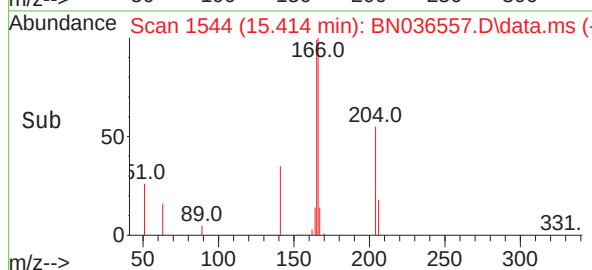
Delta R.T. 0.000 min

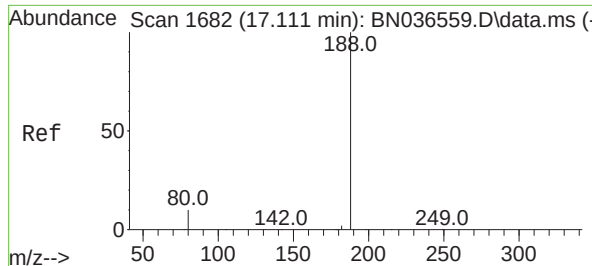
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.9	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1682

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:188 Resp: 826

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

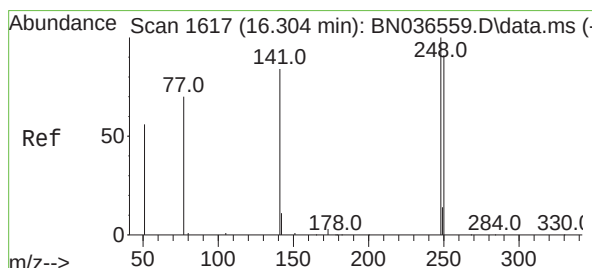
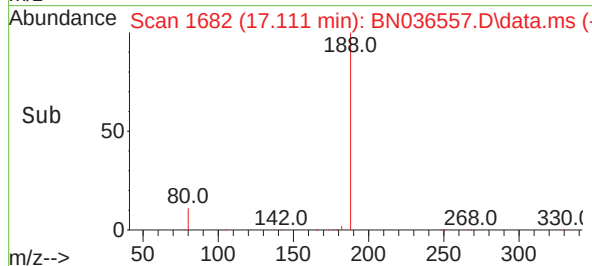
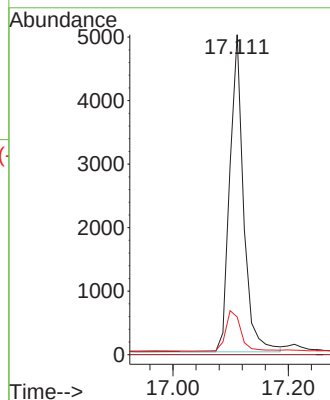
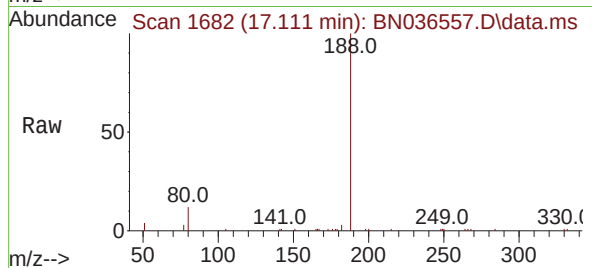
80 11.8 8.8 13.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

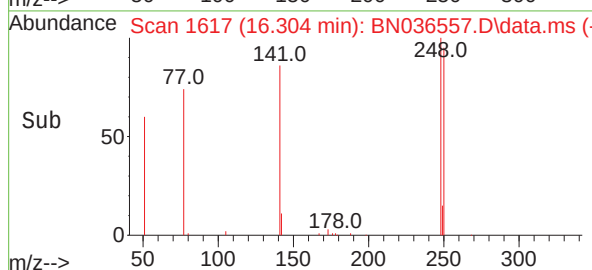
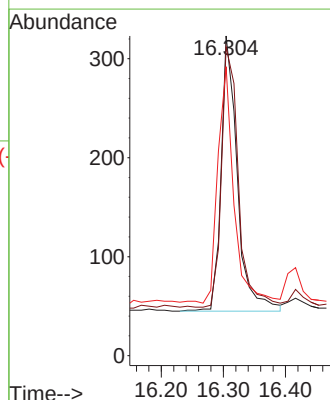
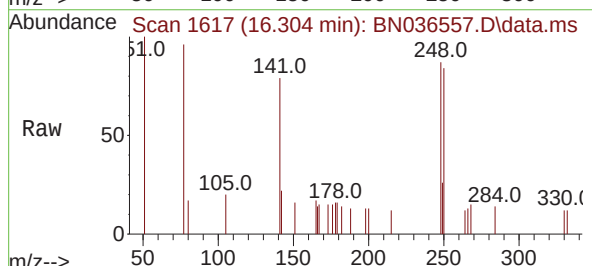
Tgt Ion:248 Resp: 502

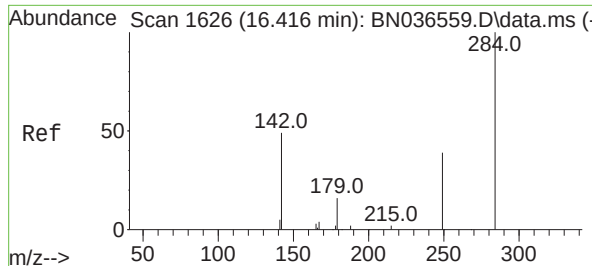
Ion Ratio Lower Upper

248 100

250 96.6 73.0 109.6

141 90.4 68.6 103.0





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:284 Resp: 632

Ion Ratio Lower Upper

284 100

142 45.7 37.0 55.4

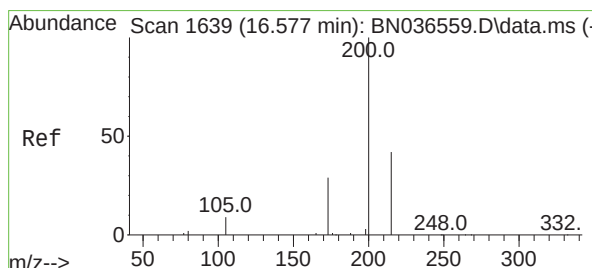
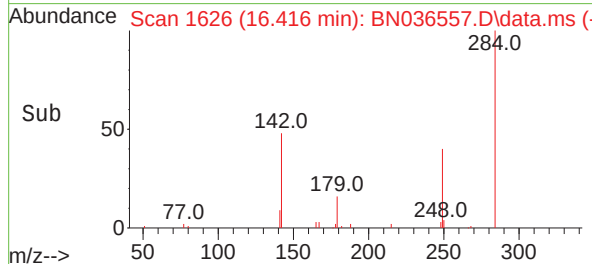
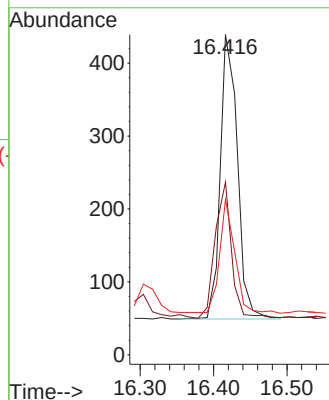
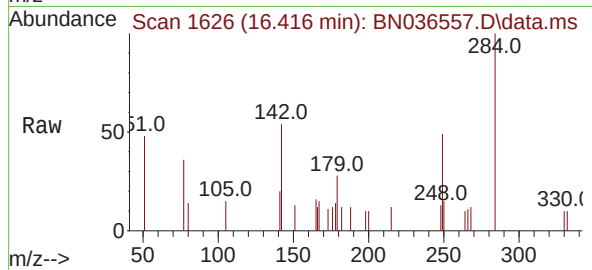
249 37.2 28.1 42.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#23

Atrazine

Concen: 0.096 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

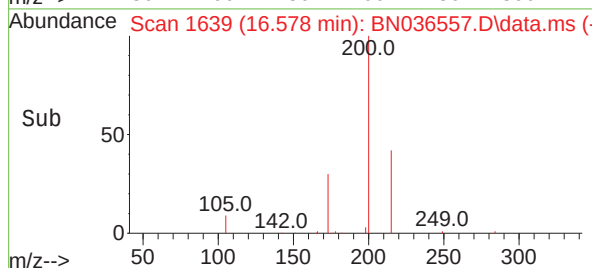
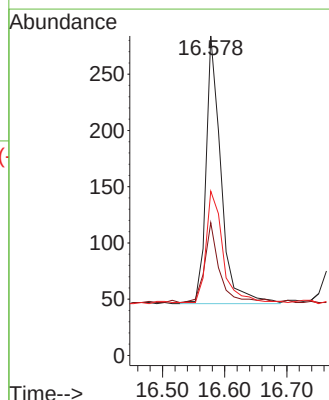
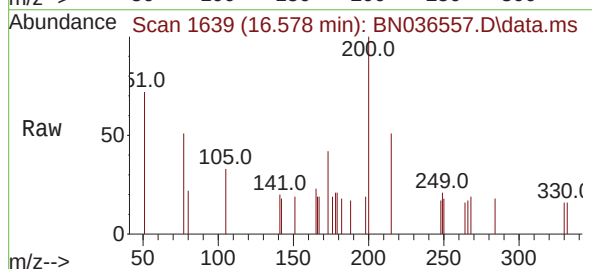
Tgt Ion:200 Resp: 400

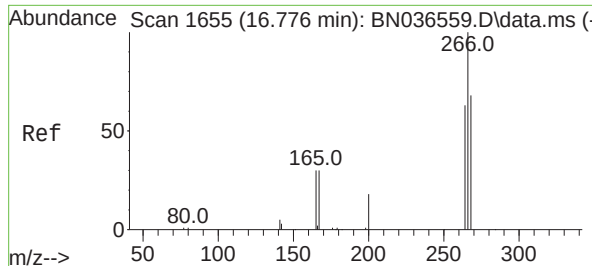
Ion Ratio Lower Upper

200 100

173 41.5 27.3 40.9#

215 51.4 36.8 55.2





#24

Pentachlorophenol

Concen: 0.102 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

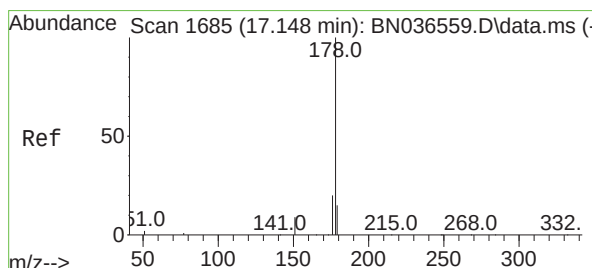
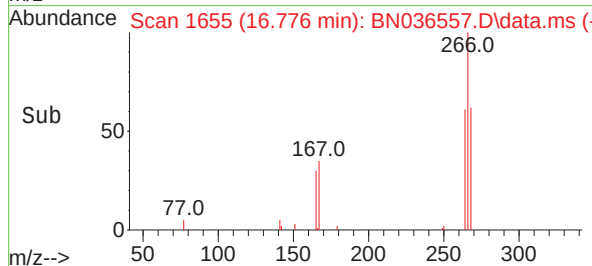
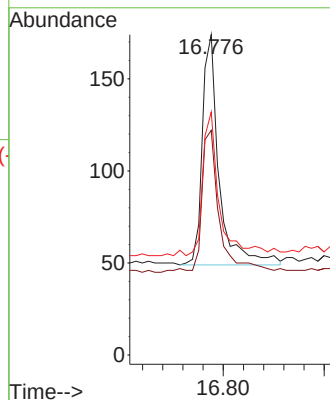
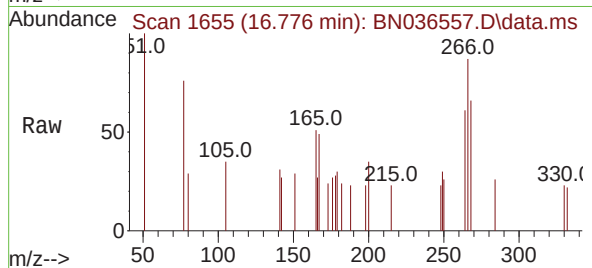
SSTDICC0.1

Tgt Ion:	266	Resp:	290
Ion Ratio	Lower	Upper	
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#25

Phenanthrene

Concen: 0.099 ng

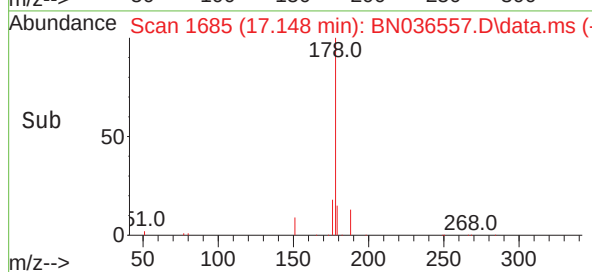
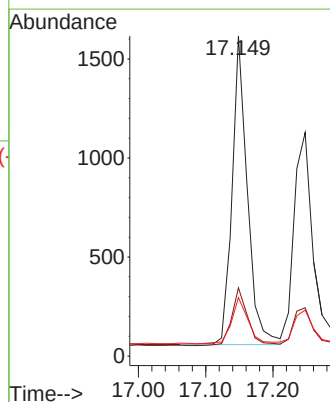
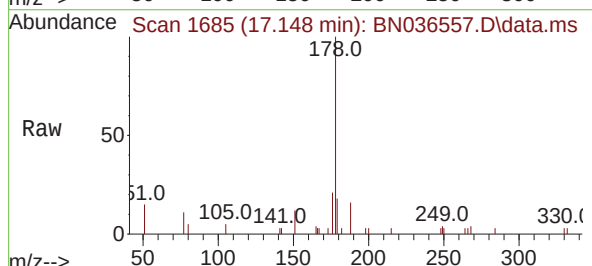
RT: 17.148 min Scan# 1685

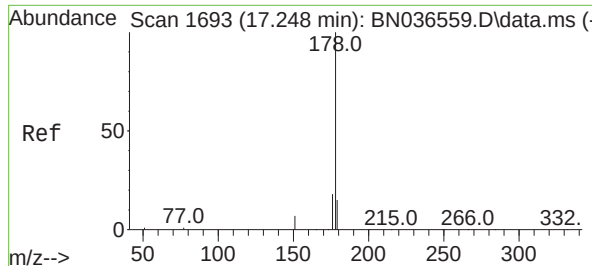
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	178	Resp:	2459
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4





#26

Anthracene

Concen: 0.095 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

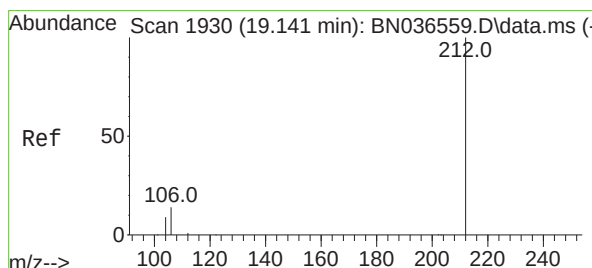
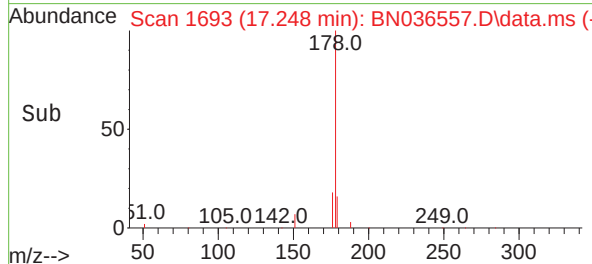
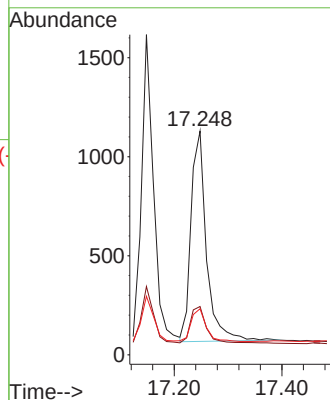
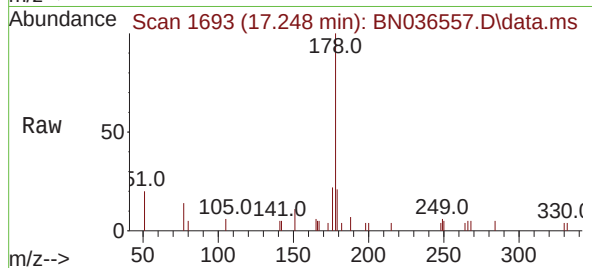
ClientSampleId :

SSTDICC0.1

Tgt Ion:	178	Resp:	212
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#27

Fluoranthene-d10

Concen: 0.101 ng

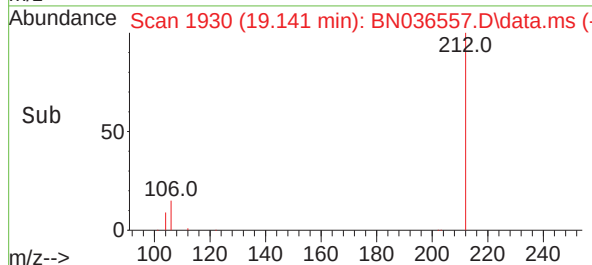
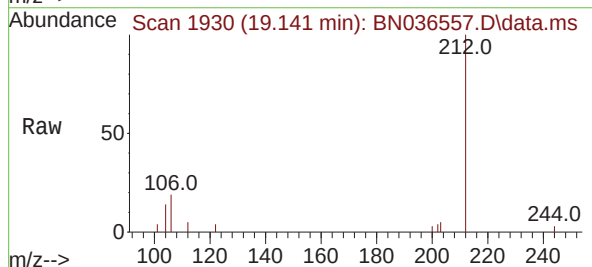
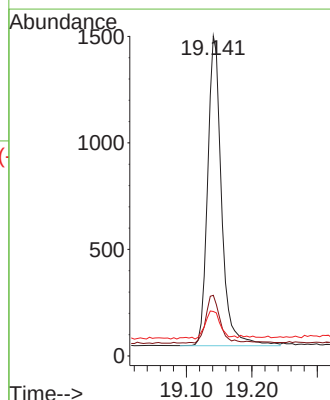
RT: 19.141 min Scan# 1930

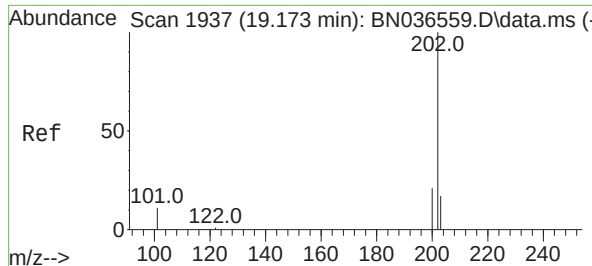
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9





#28

Fluoranthene

Concen: 0.099 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

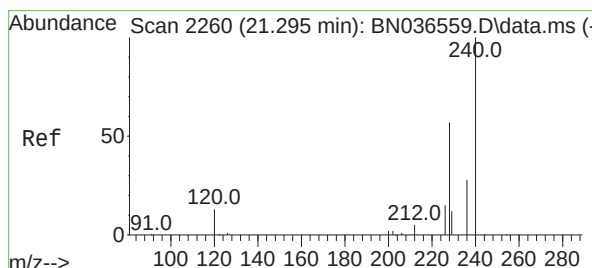
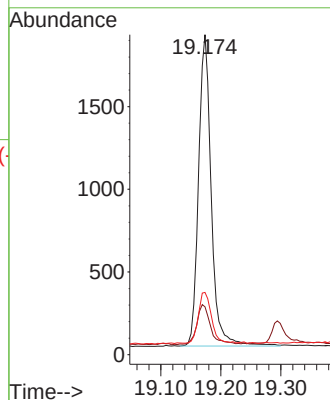
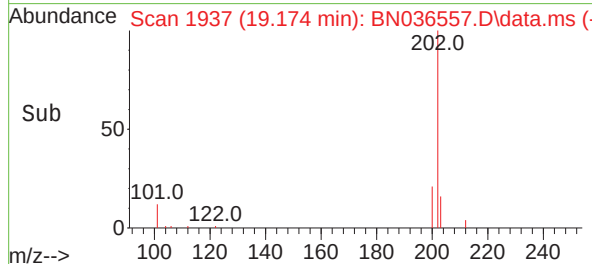
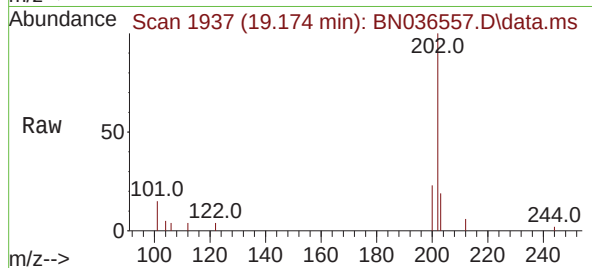
SSTDIC0.1

Tgt Ion:	202	Resp:	277
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#29

Chrysene-d12

Concen: 0.400 ng

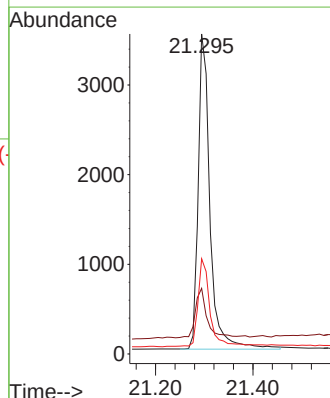
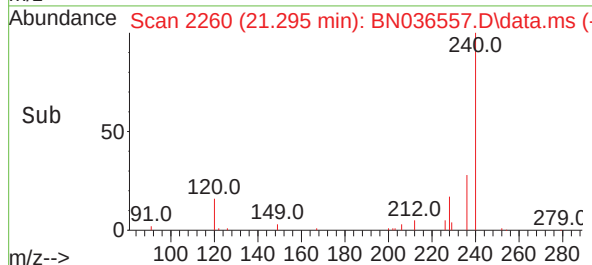
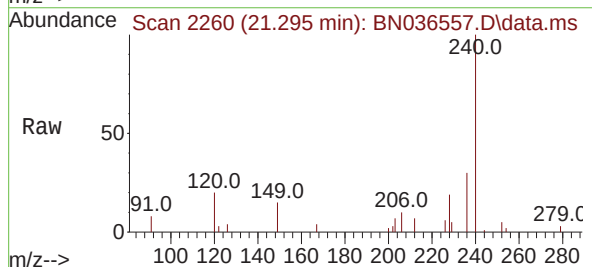
RT: 21.295 min Scan# 2260

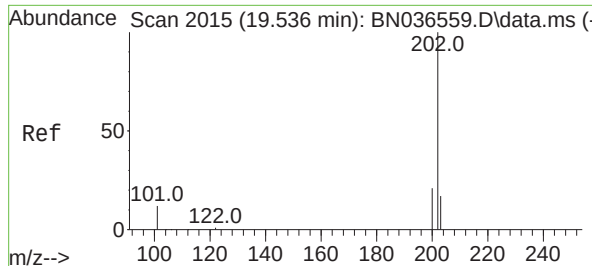
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	240	Resp:	5886
Ion Ratio	Lower	Upper	
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1





#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

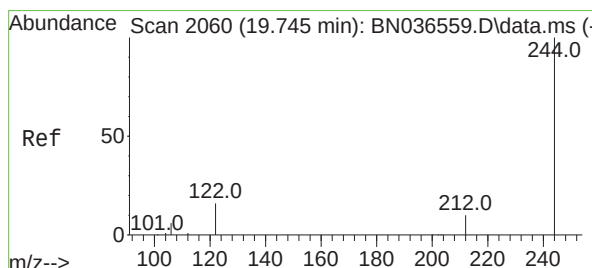
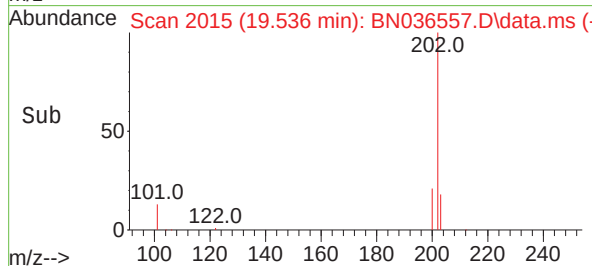
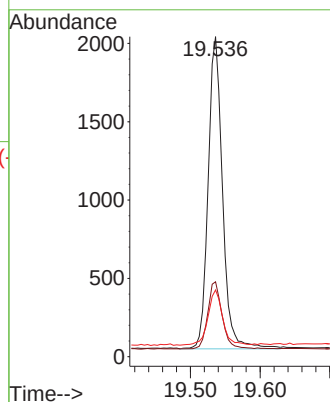
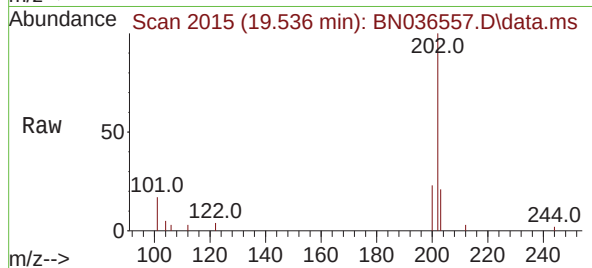
SSTDICC0.1

Tgt Ion:	202	Resp:	286
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#31

Terphenyl-d14

Concen: 0.100 ng

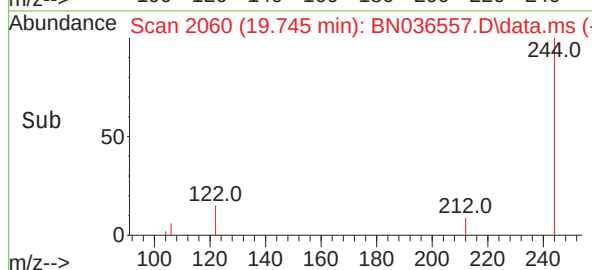
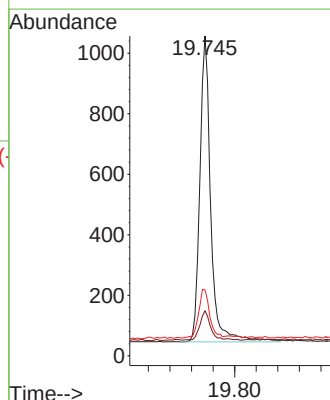
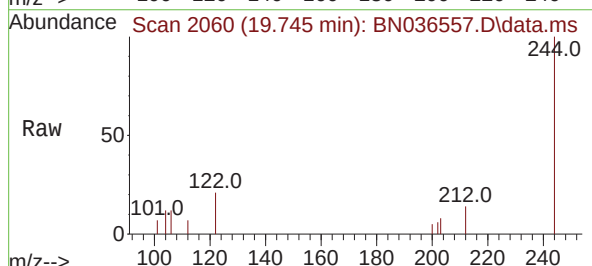
RT: 19.745 min Scan# 2060

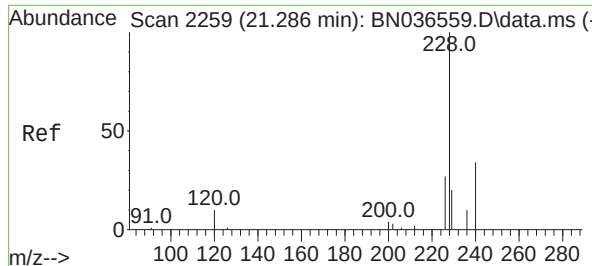
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	244	Resp:	1416
Ion Ratio	Lower	Upper	
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9





#32

Benzo(a)anthracene

Concen: 0.100 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

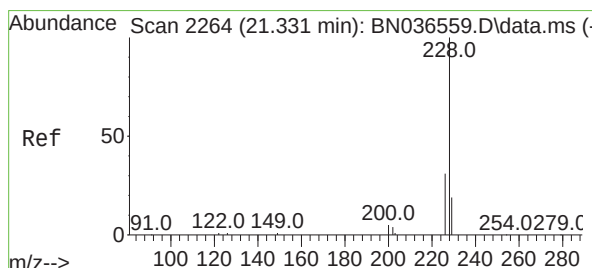
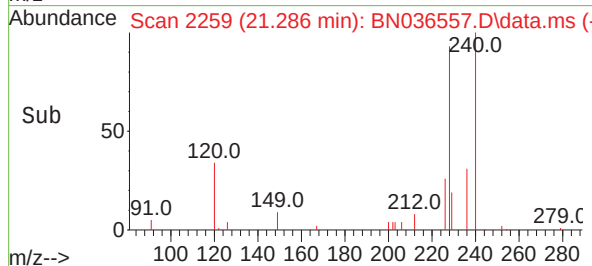
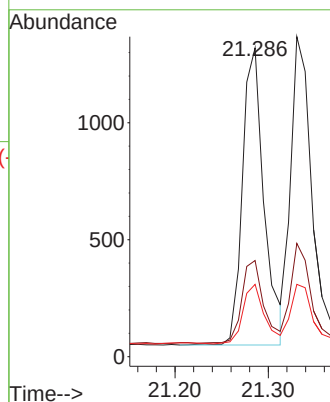
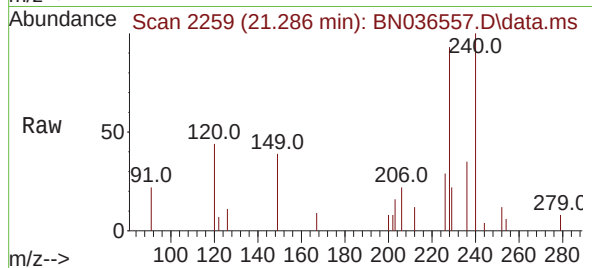
ClientSampleId :

SSTDICC0.1

Tgt Ion:	228	Resp:	204
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#33

Chrysene

Concen: 0.098 ng

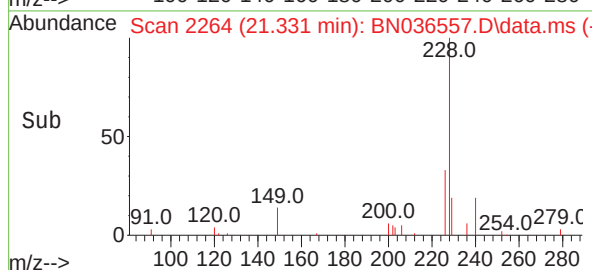
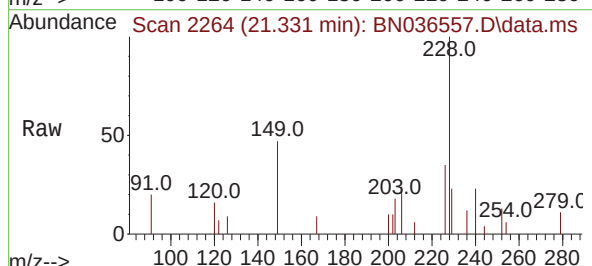
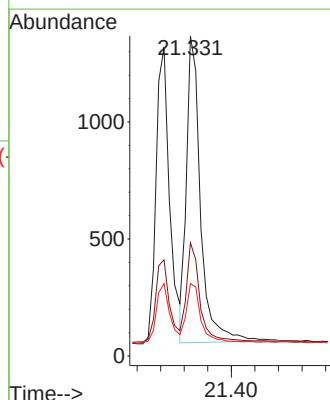
RT: 21.331 min Scan# 2264

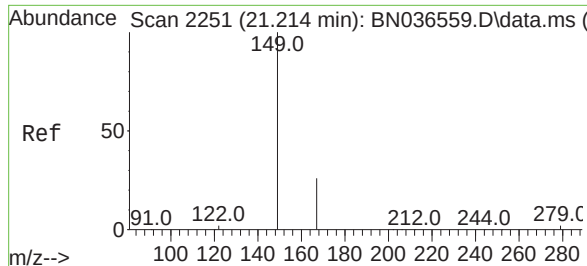
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2187
Ion Ratio	Lower	Upper	
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

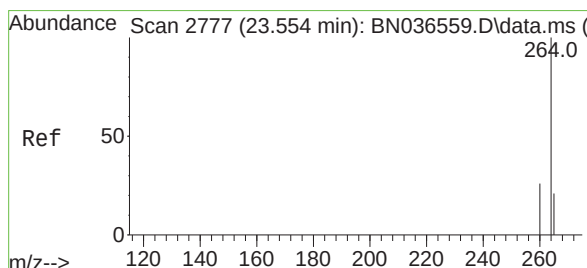
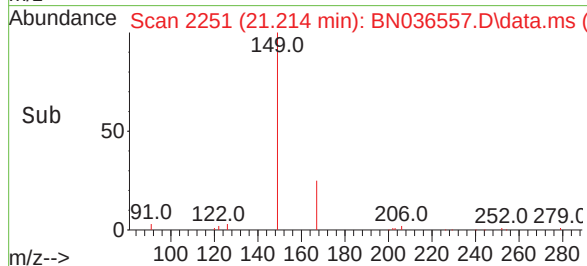
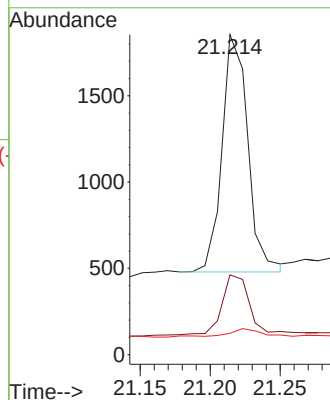
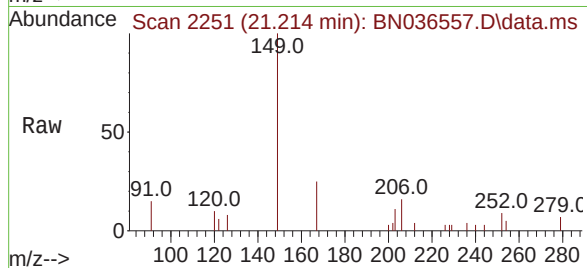
Tgt Ion:	149	Resp:	1760
Ion Ratio	Lower	Upper	
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#35

Perylene-d12

Concen: 0.400 ng

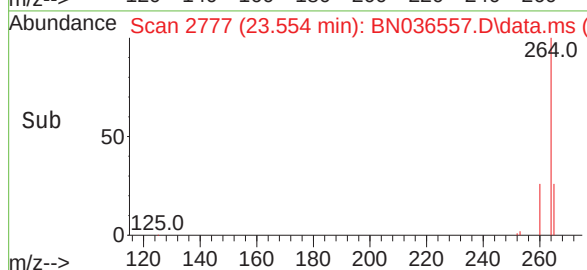
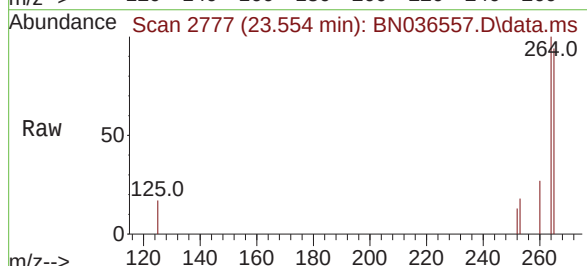
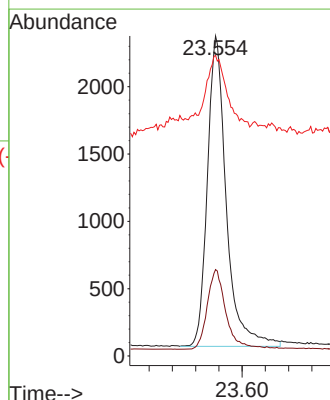
RT: 23.554 min Scan# 2777

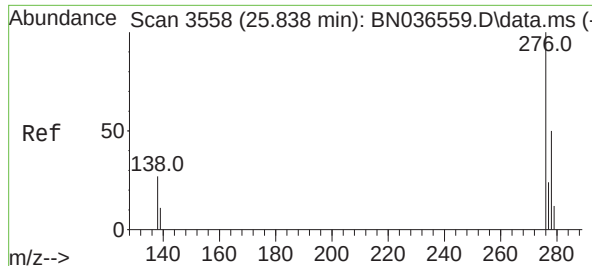
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	264	Resp:	5207
Ion Ratio	Lower	Upper	
264	100		
260	27.0	22.6	33.8
265	93.9	88.1	132.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.080 ng

RT: 25.841 min Scan# 3558

Delta R.T. 0.003 min

Lab File: BN036557.D

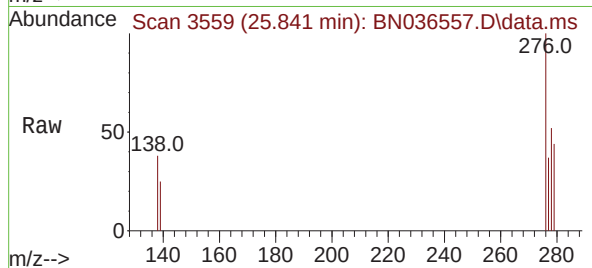
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:276 Resp: 1510

Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

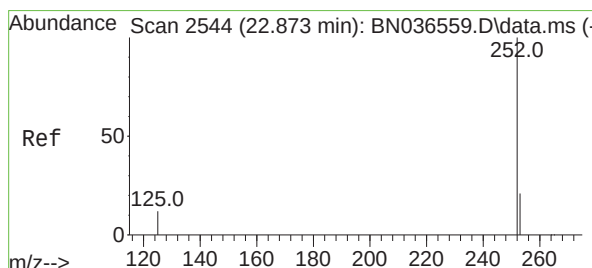
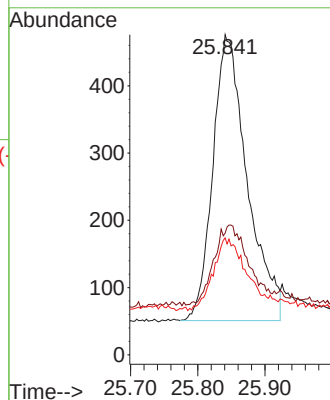
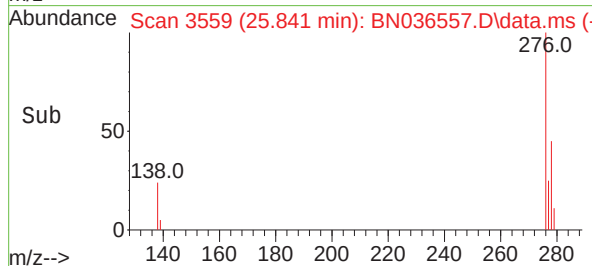
277 24.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#37

Benzo(b)fluoranthene

Concen: 0.090 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

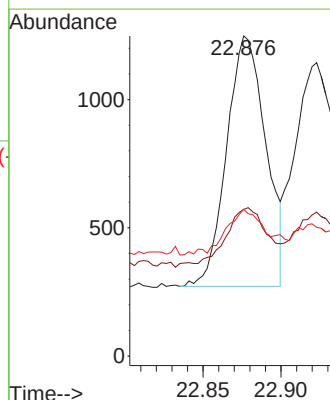
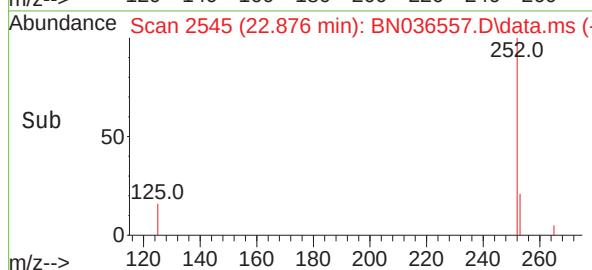
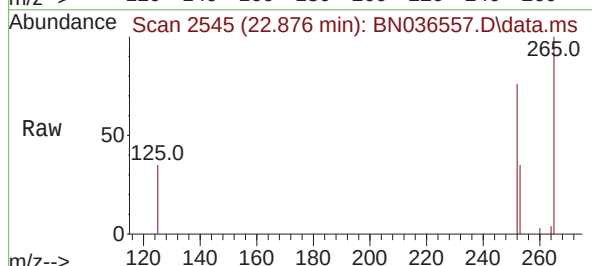
Tgt Ion:252 Resp: 1707

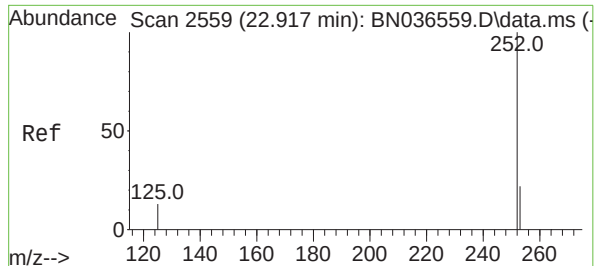
Ion Ratio Lower Upper

252 100

253 45.8 23.9 35.9#

125 45.8 17.4 26.2#





#38

Benzo(k)fluoranthene

Concen: 0.098 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036557.D

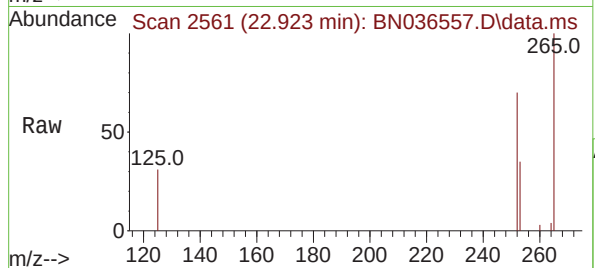
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



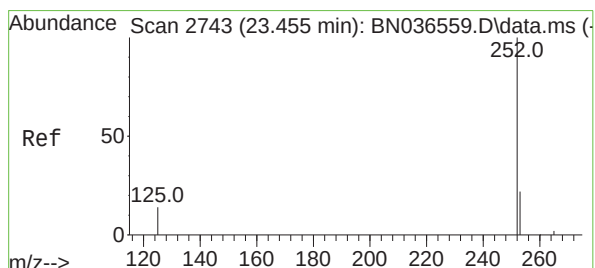
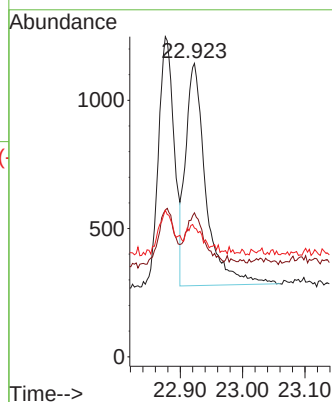
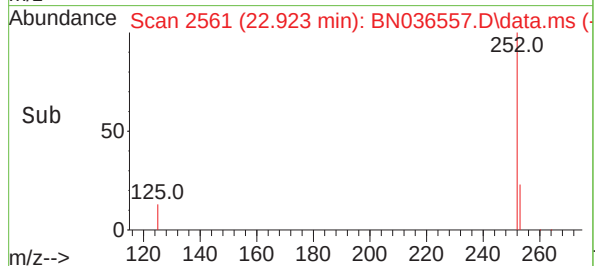
Tgt Ion:	252	Resp:	195
Ion Ratio	Lower	Upper	
252	100		
253	49.0	24.6	36.8
125	43.9	17.8	26.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#39

Benzo(a)pyrene

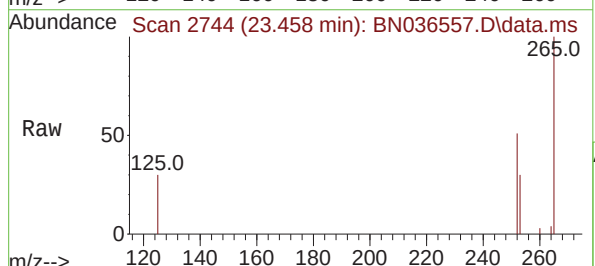
Concen: 0.089 ng

RT: 23.458 min Scan# 2744

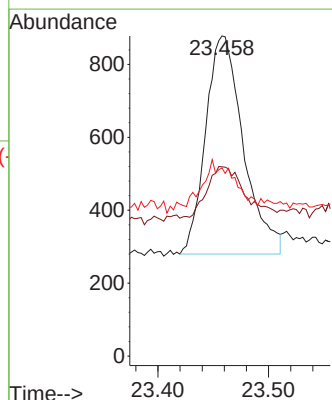
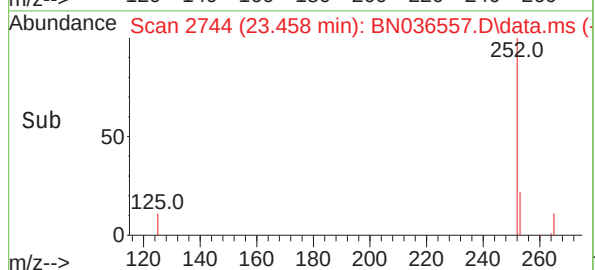
Delta R.T. 0.003 min

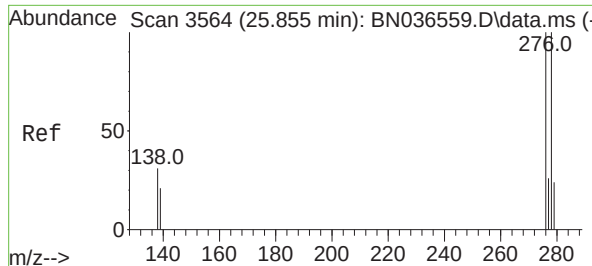
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion:	252	Resp:	1419
Ion Ratio	Lower	Upper	
252	100		
253	59.1	27.8	41.8
125	58.8	22.7	34.1





#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

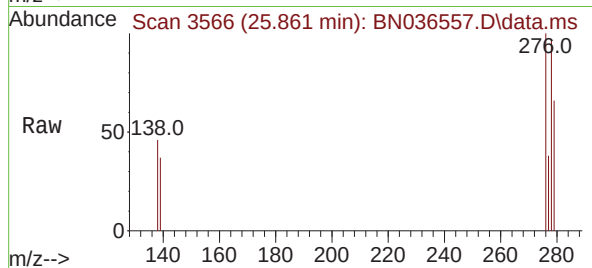
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:278 Resp: 1163

Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

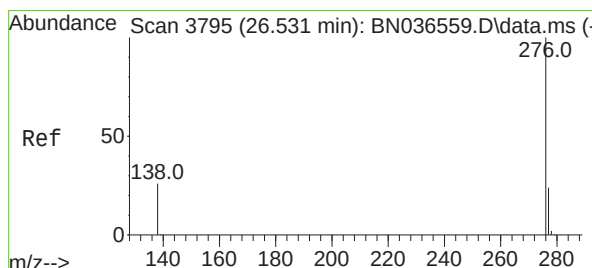
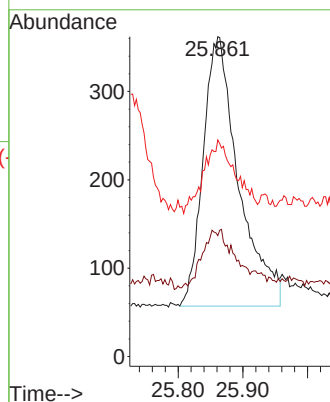
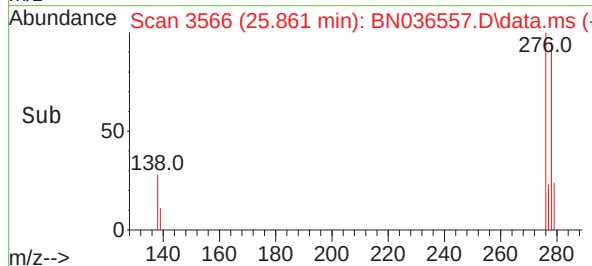
279 67.7 28.8 43.2#

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.539 min Scan# 3798

Delta R.T. 0.009 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

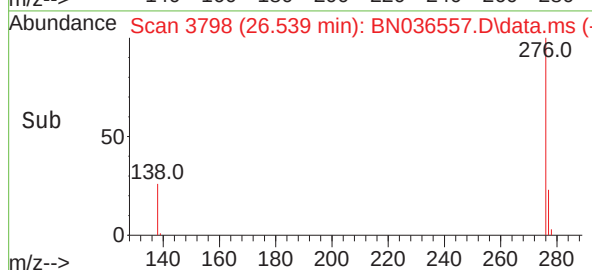
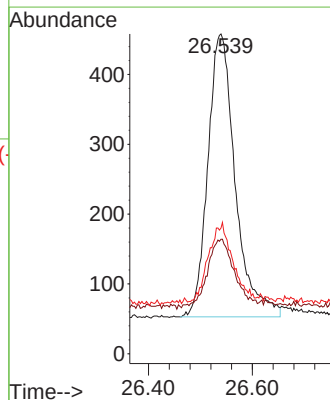
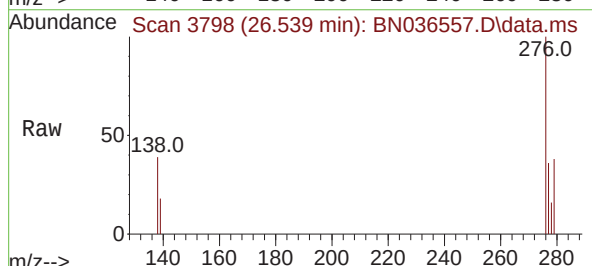
Tgt Ion:276 Resp: 1482

Ion Ratio Lower Upper

276 100

277 35.8 22.2 33.4#

138 39.3 24.1 36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 15:54:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	550m	0.198	ng	
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

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

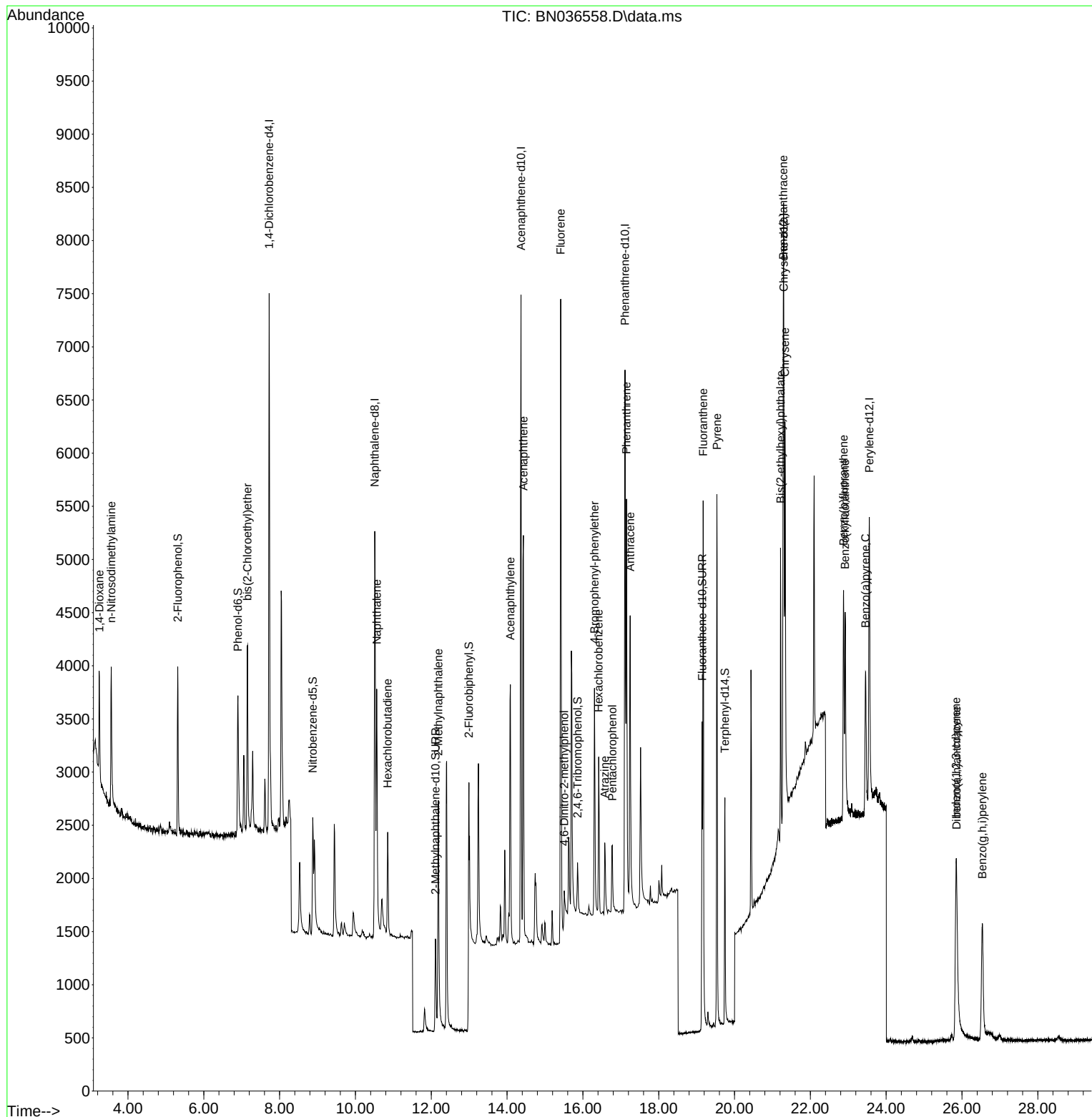
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

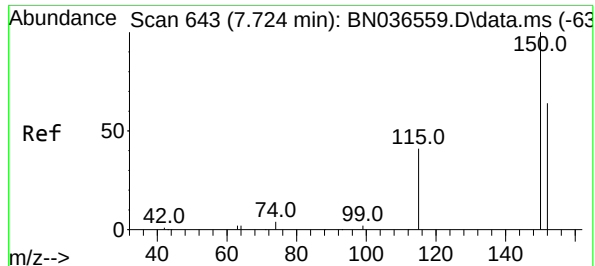
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

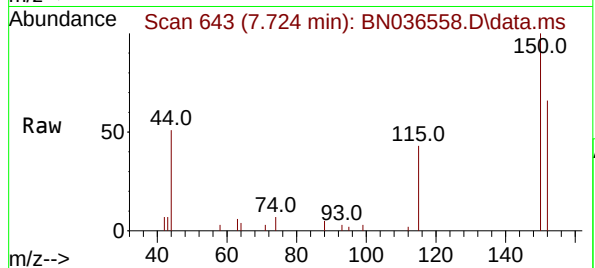
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

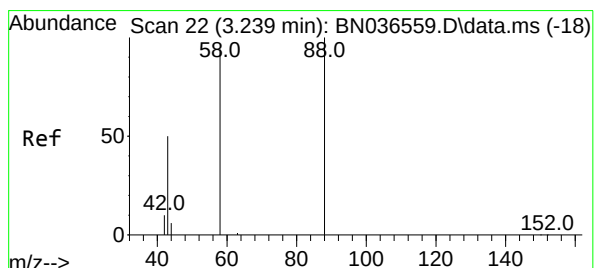
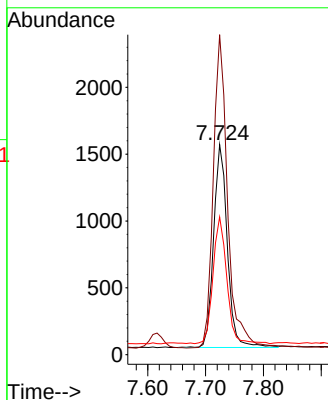
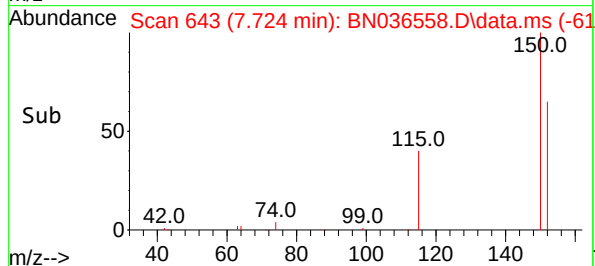
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2504
Ion Ratio Lower Upper
152 100
150 152.3 123.7 185.5
115 65.5 54.3 81.5

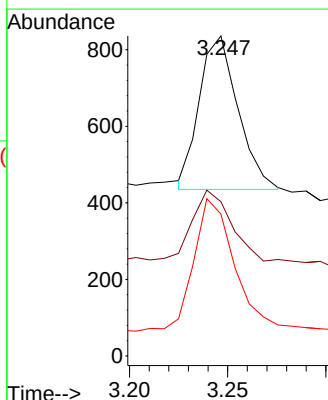
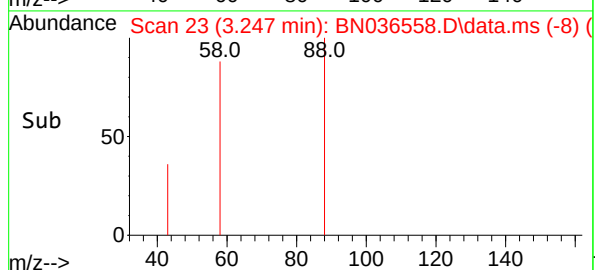
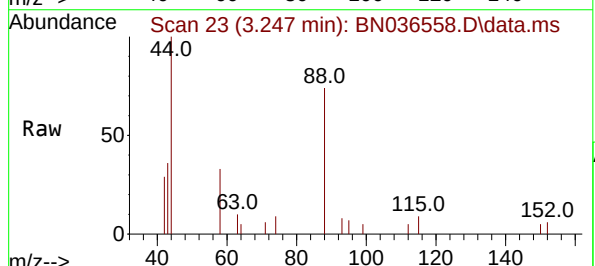
Manual Integrations
APPROVED

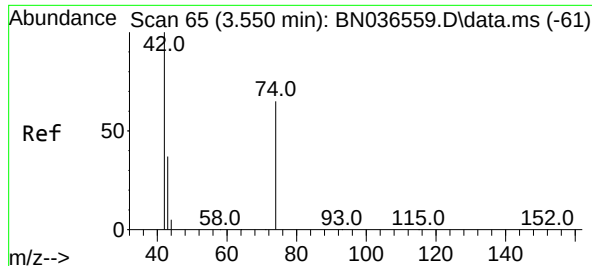
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550
Ion Ratio Lower Upper
88 100
43 56.5 37.8 56.8
58 93.8 67.4 101.2





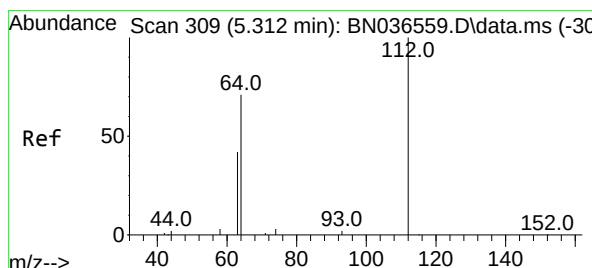
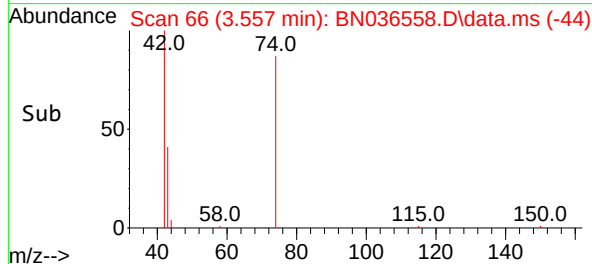
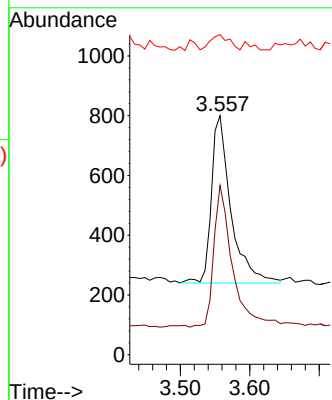
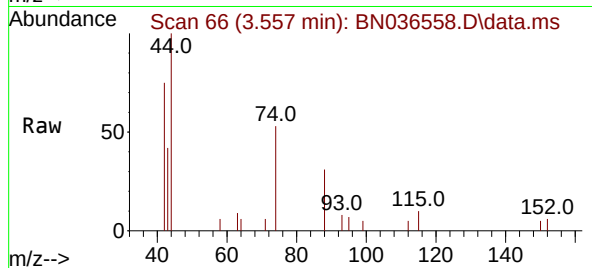
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5

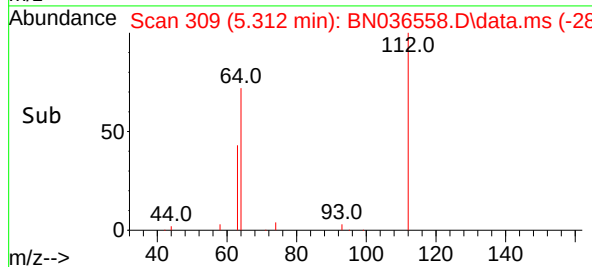
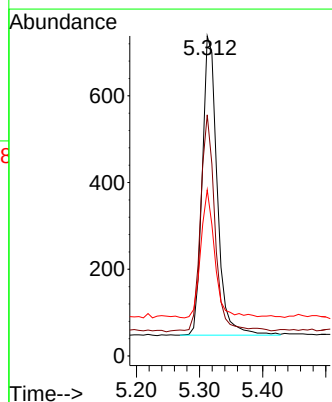
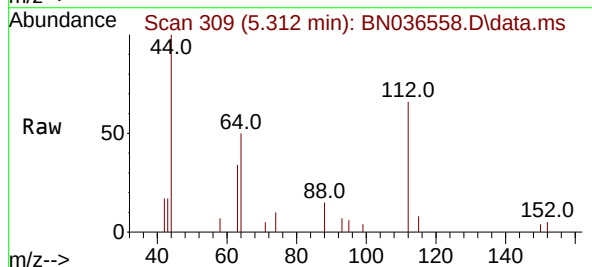
Manual Integrations
APPROVED

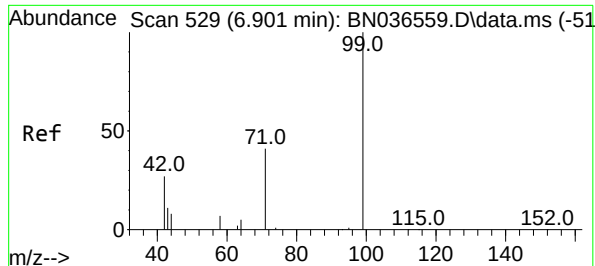
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8





#5

Phenol-d6

Concen: 0.184 ng

RT: 6.901 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

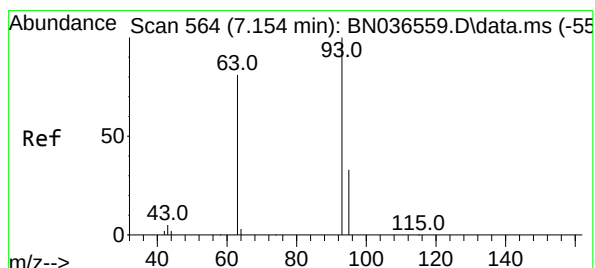
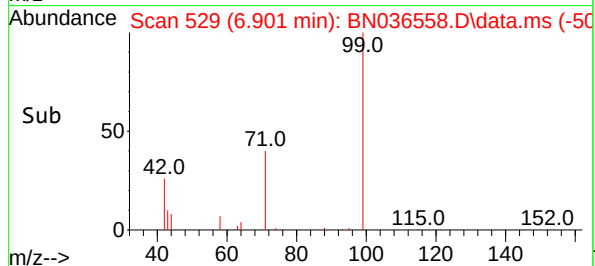
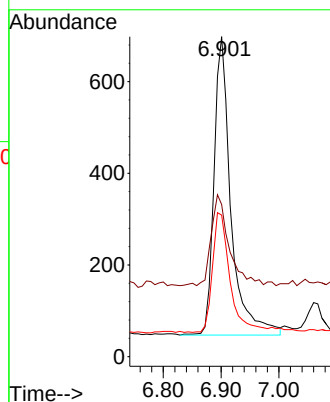
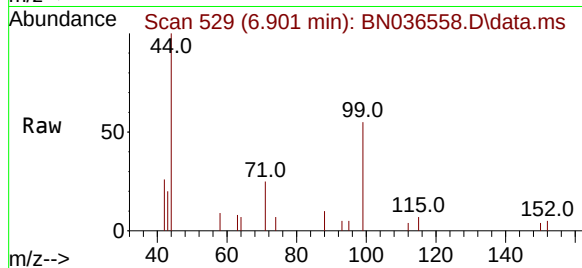
ClientSampleId :

SSTDICC0.2

Tgt Ion:	99	Resp:	132
Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6

bis(2-Chloroethyl)ether

Concen: 0.193 ng

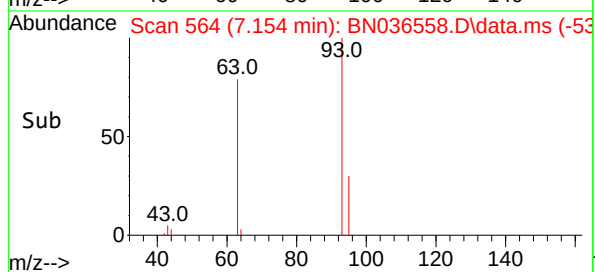
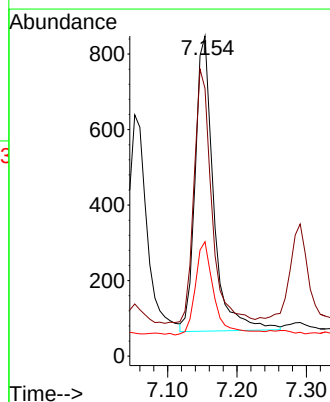
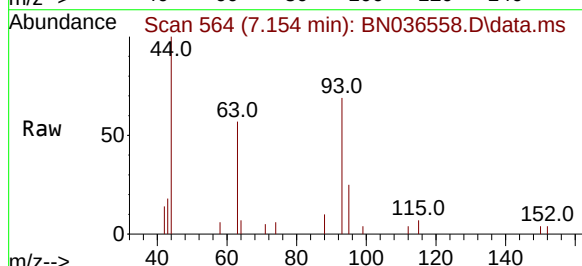
RT: 7.154 min Scan# 564

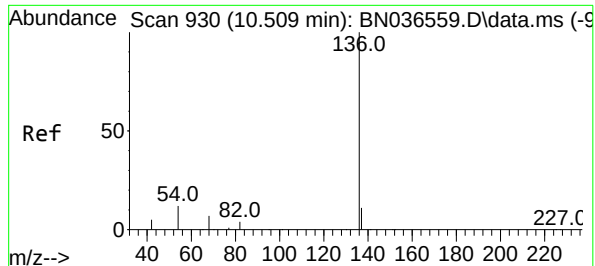
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

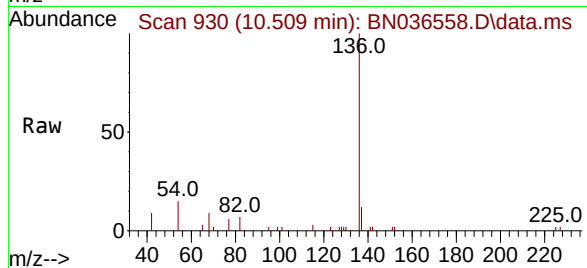
Tgt Ion:	93	Resp:	1440
Ion	Ratio	Lower	Upper
93	100		
63	82.9	67.7	101.5
95	31.9	25.6	38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

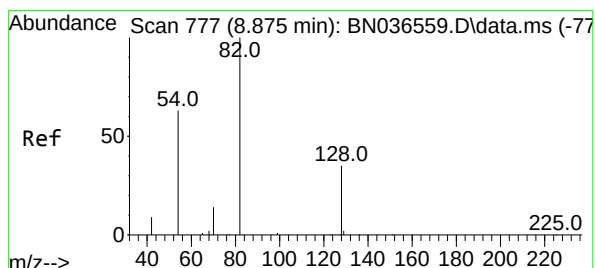
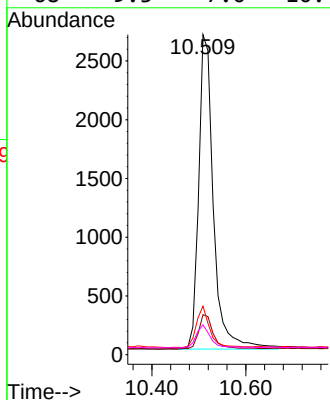
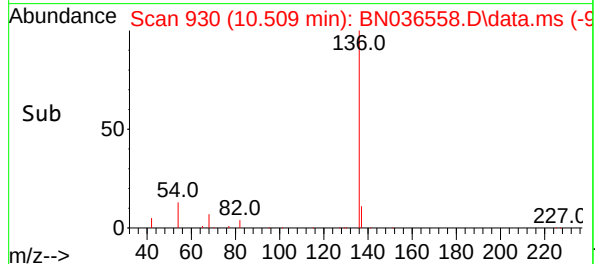
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 584
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 15.1 11.5 17.3
68 9.3 7.0 10.4

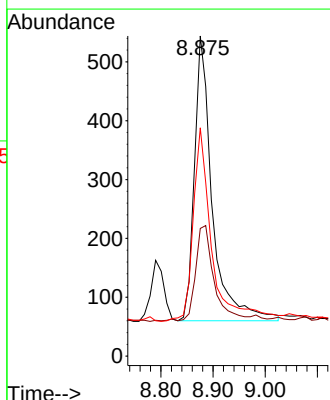
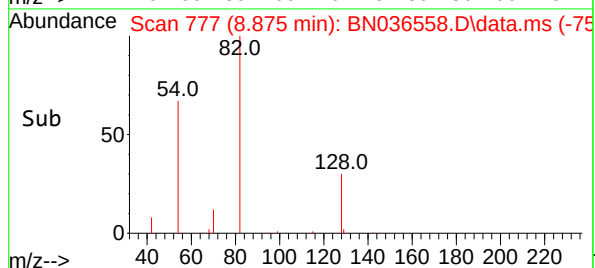
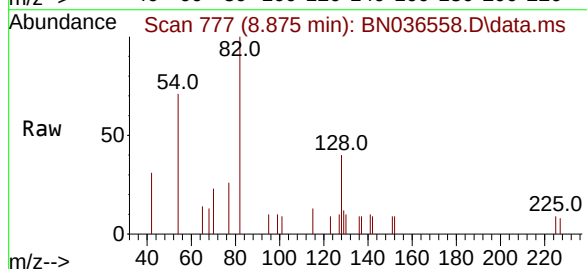
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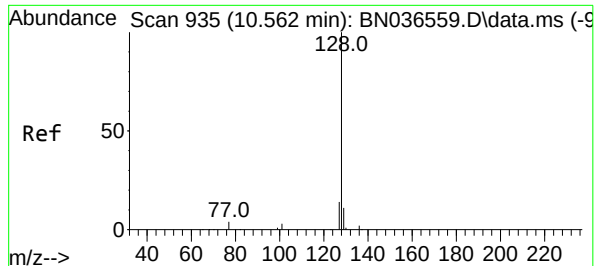
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156
Ion Ratio Lower Upper
82 100
128 39.9 30.6 45.8
54 71.3 52.2 78.4





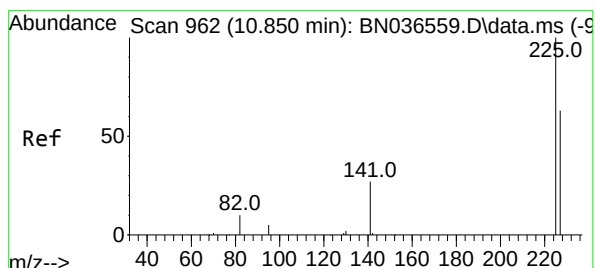
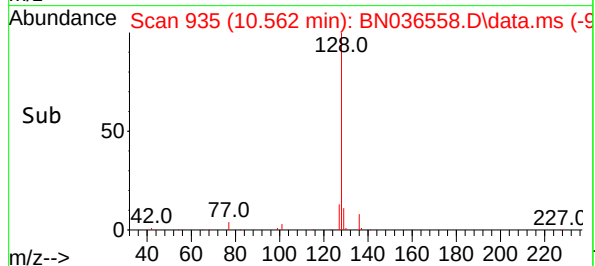
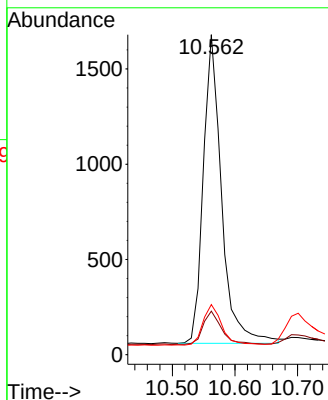
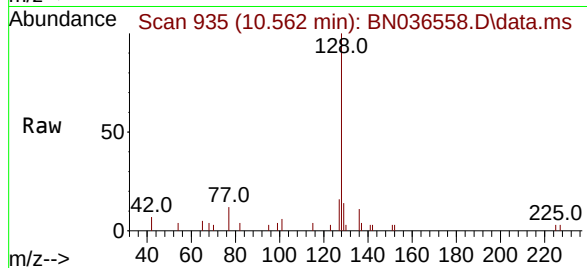
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3280
Ion Ratio Lower Upper
128 100
129 13.6 9.8 14.6
127 15.7 11.8 17.8

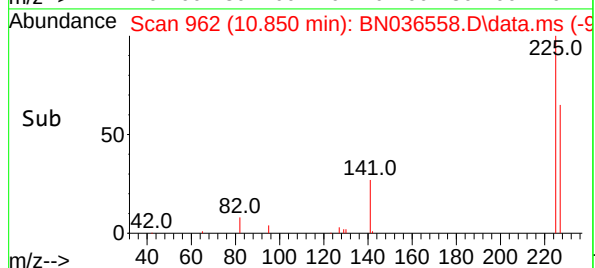
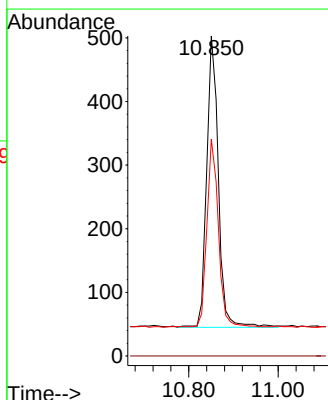
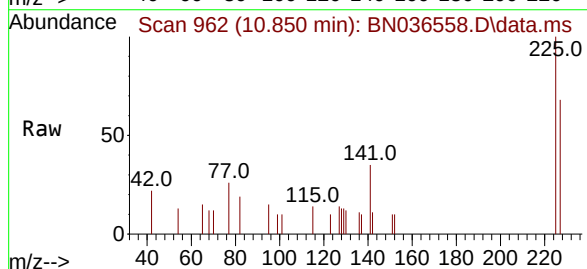
Manual Integrations
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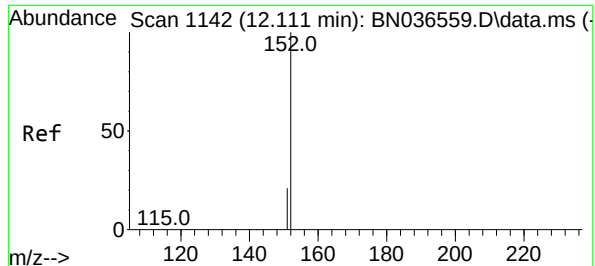
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

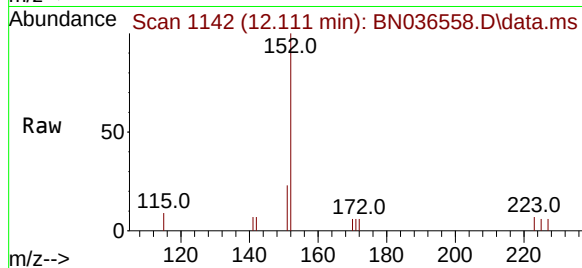
Tgt Ion:225 Resp: 828
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

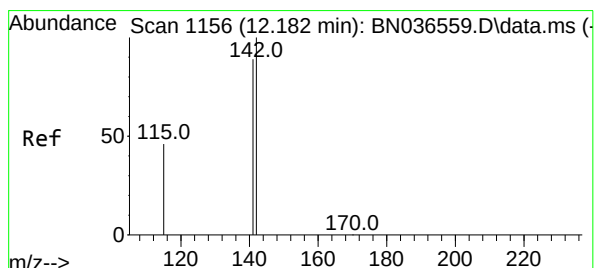
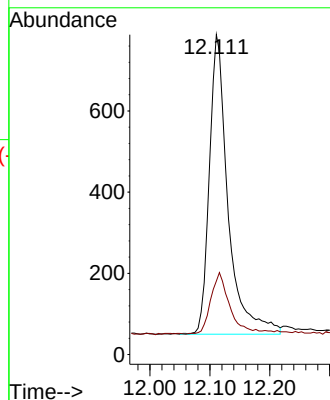
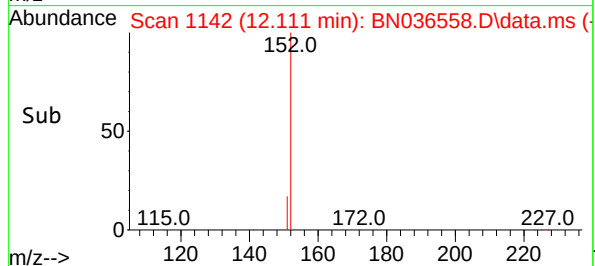
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



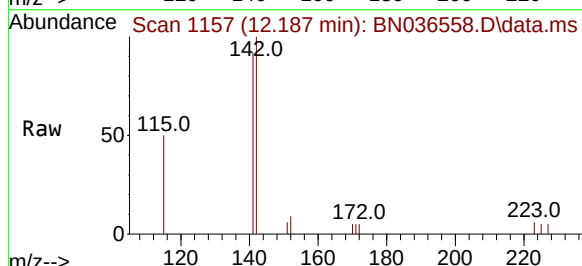
Tgt Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

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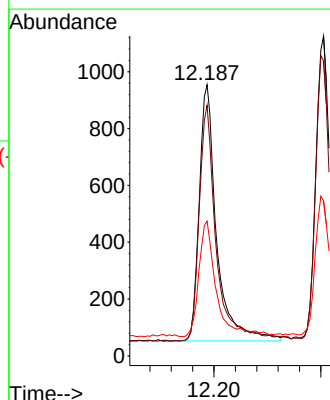
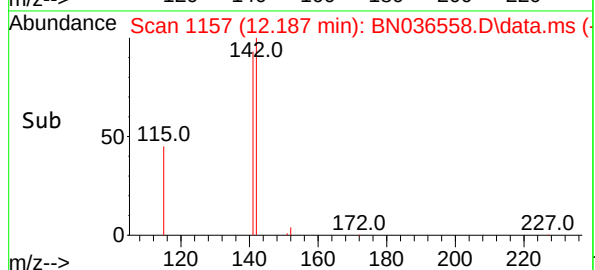
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

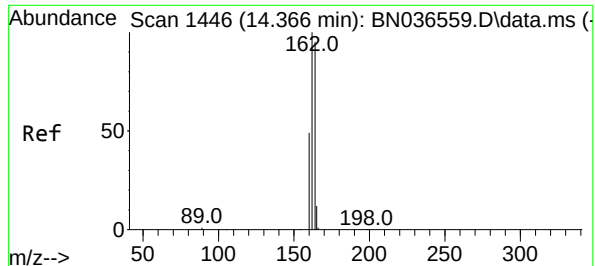


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



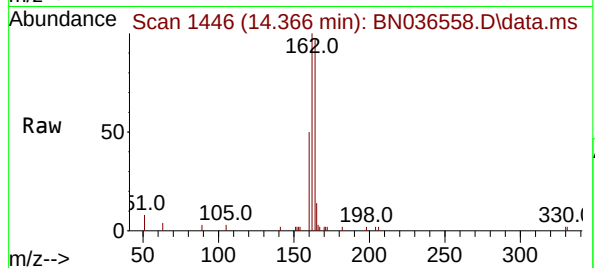
Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

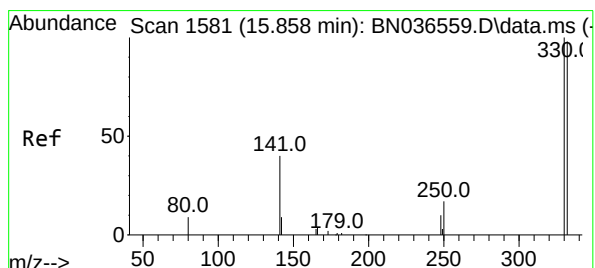
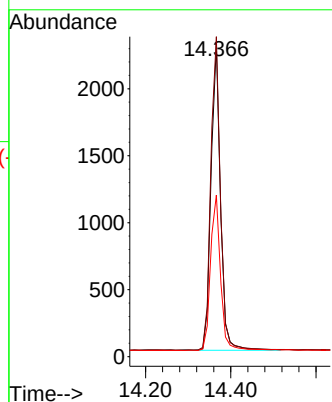
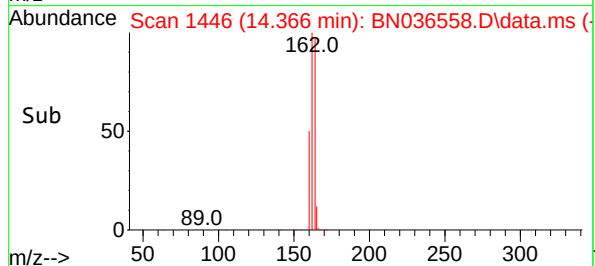
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



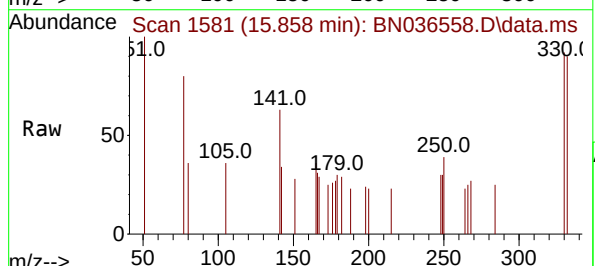
Tgt Ion:164 Resp: 3510
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

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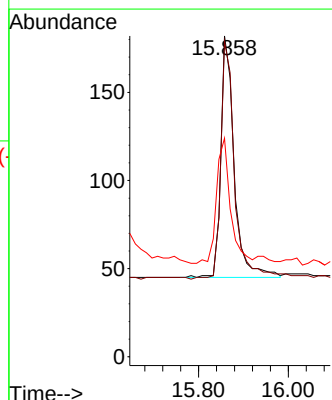
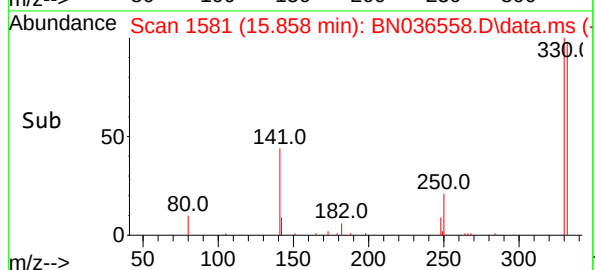
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

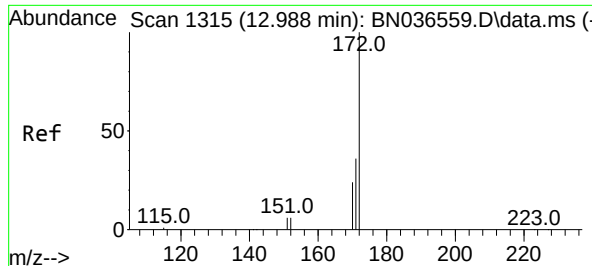


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.170 ng

RT: 12.993 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

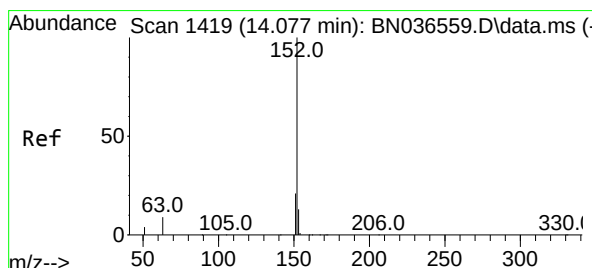
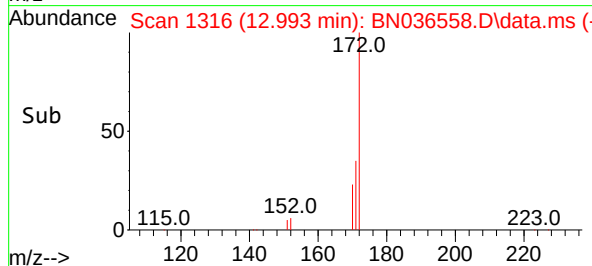
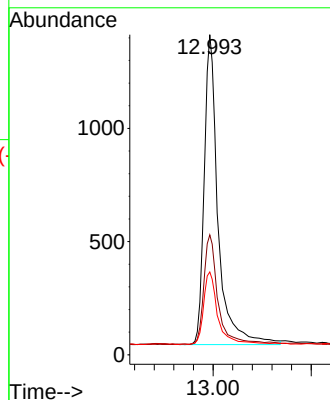
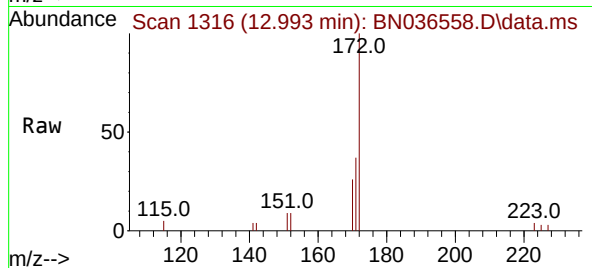
Tgt Ion:	172	Resp:	348
Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#16

Acenaphthylene

Concen: 0.186 ng

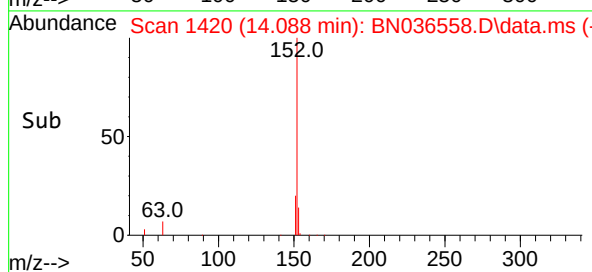
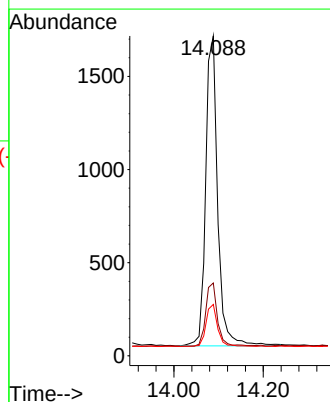
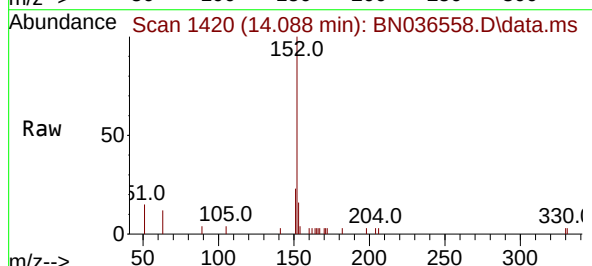
RT: 14.088 min Scan# 1420

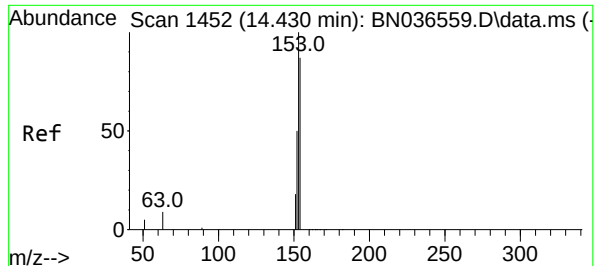
Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

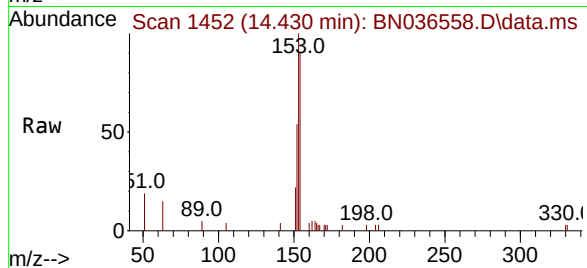
Tgt Ion:	152	Resp:	3087
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.0	10.6	15.8





#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

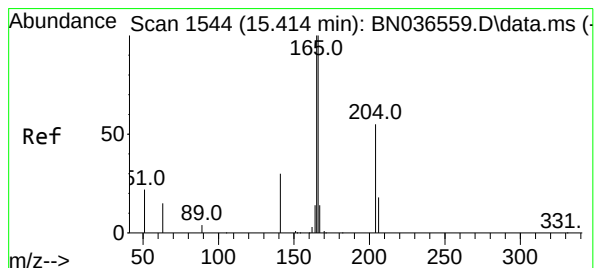
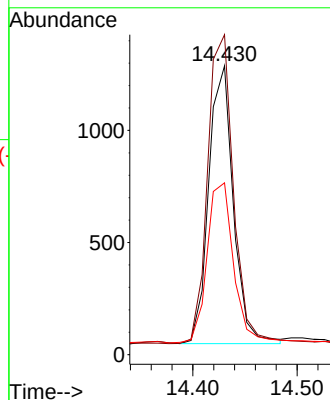
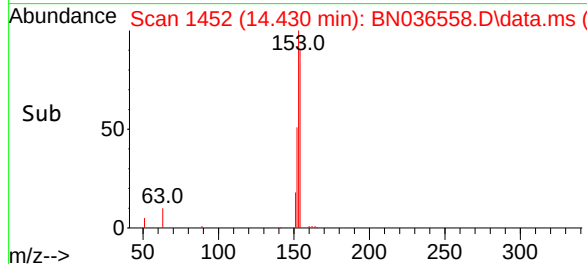
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 2038
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.1 49.8 74.6

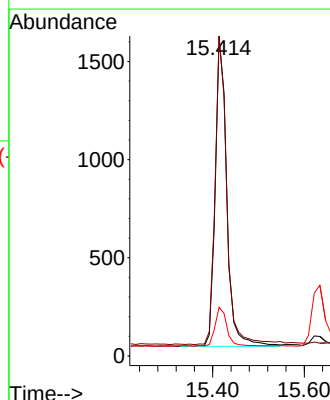
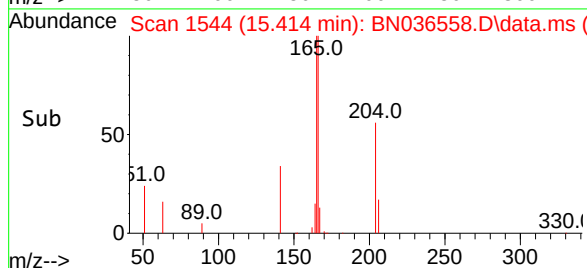
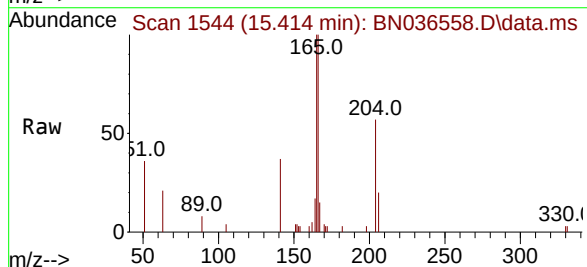
Manual Integrations
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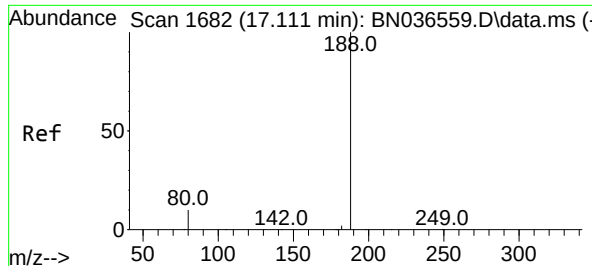
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.8
167 12.6 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

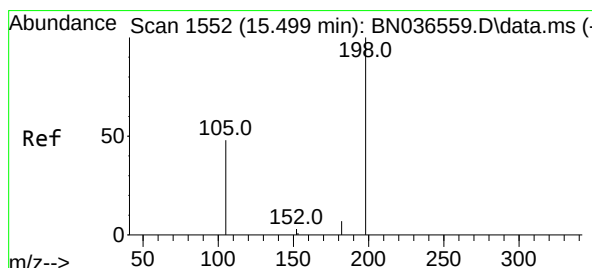
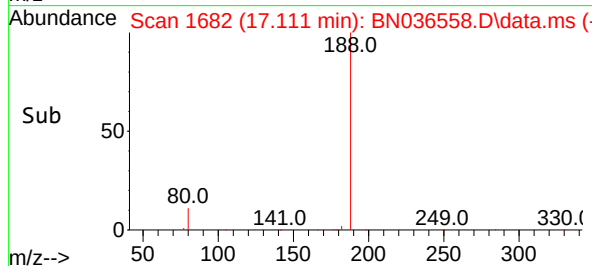
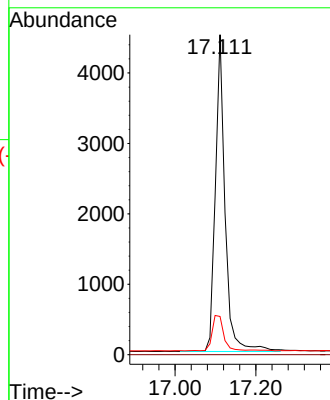
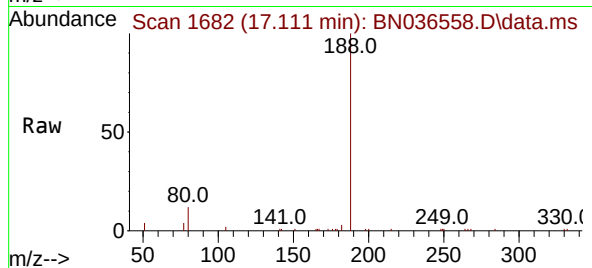
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2

Manual Integrations
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Supervised By :Jagrut Upadhyay 03/11/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.258 ng

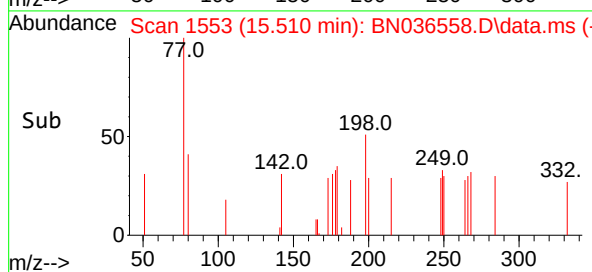
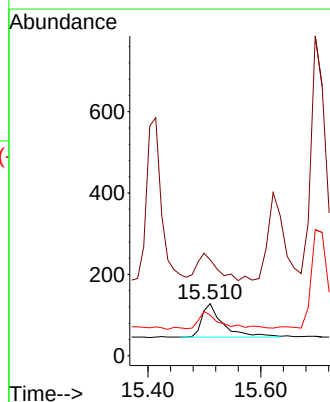
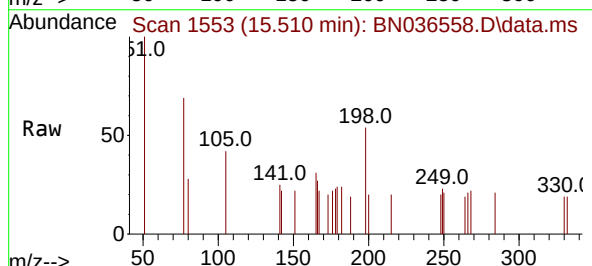
RT: 15.510 min Scan# 1553

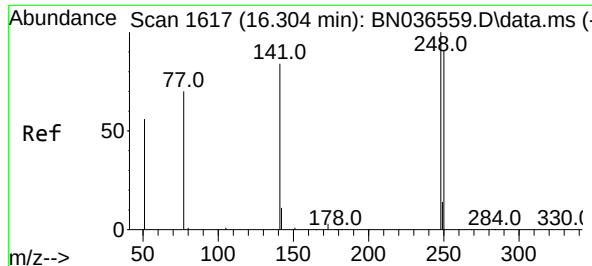
Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

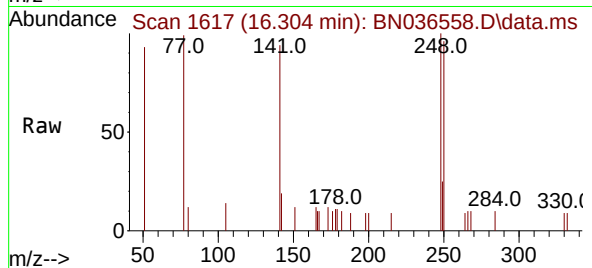
Tgt Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

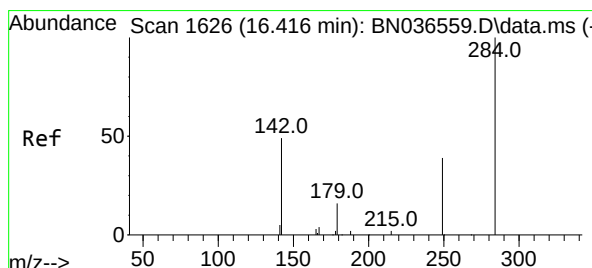
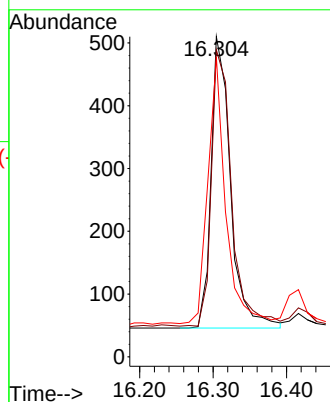
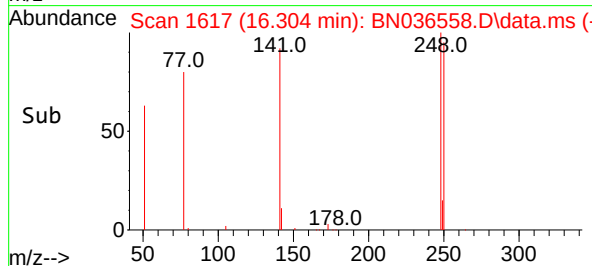
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 85
Ion Ratio Lower Upper
248 100
250 95.9 73.0 109.6
141 93.7 68.6 103.0

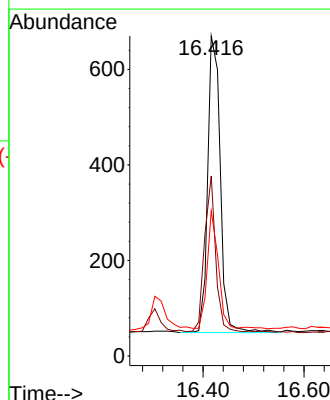
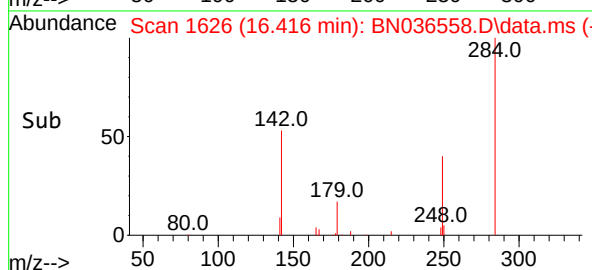
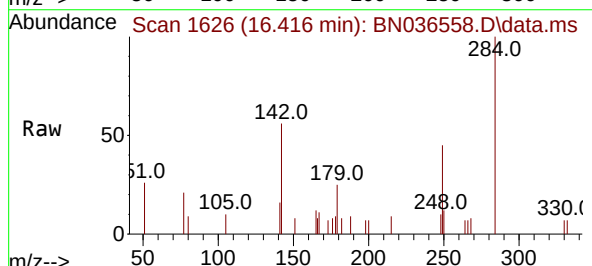
Manual Integrations
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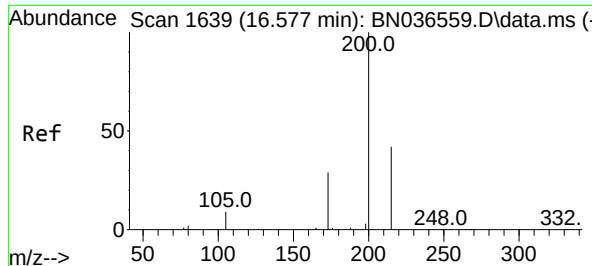
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

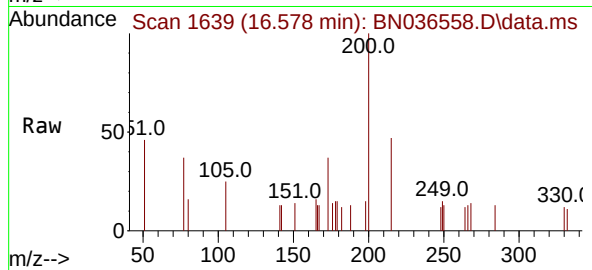
Tgt Ion:284 Resp: 1079
Ion Ratio Lower Upper
284 100
142 47.0 37.0 55.4
249 34.8 28.1 42.1





#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

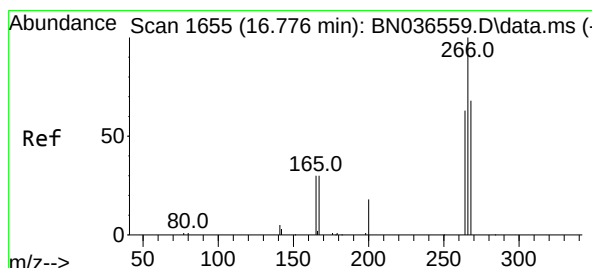
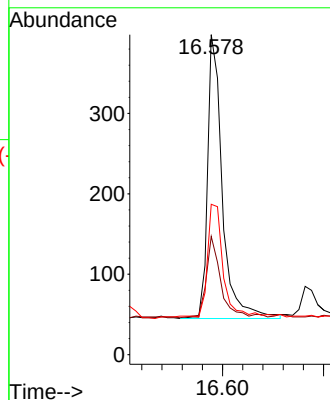
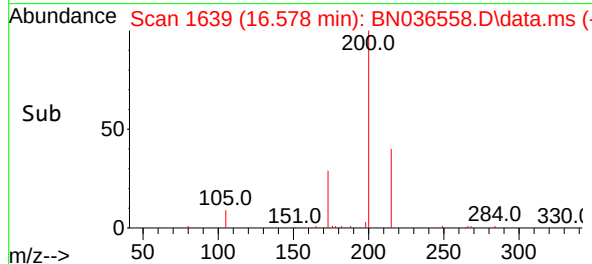
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 710
Ion Ratio Lower Upper
200 100
173 36.9 27.3 40.9
215 47.0 36.8 55.2

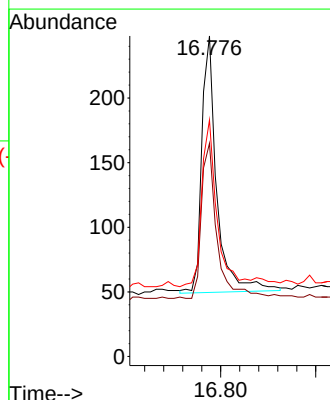
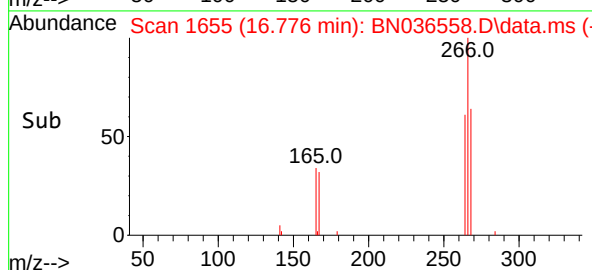
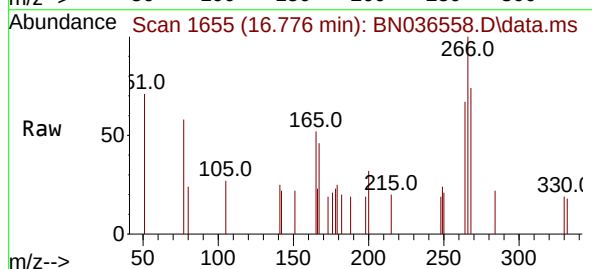
Manual Integrations
APPROVED

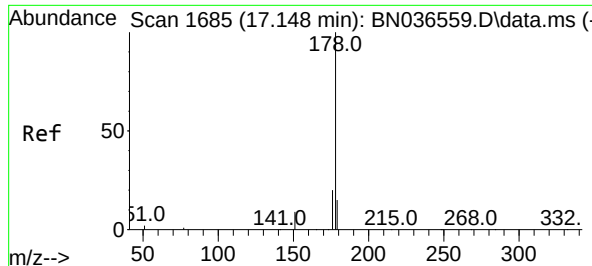
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

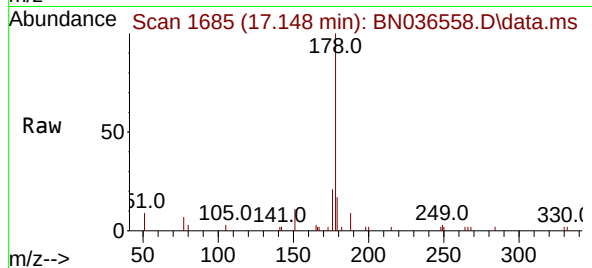
Tgt Ion:266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3





#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

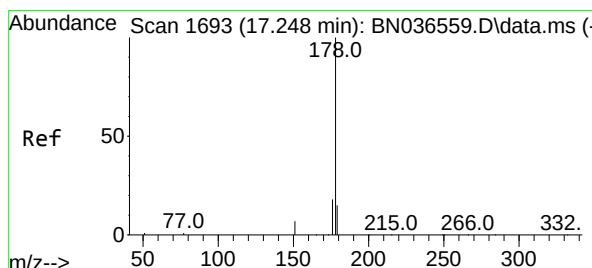
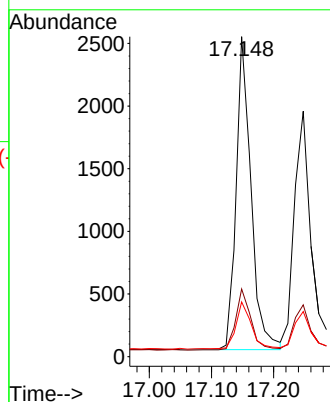
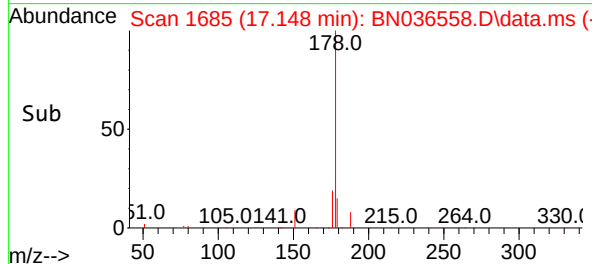
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 417
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.5 12.2 18.4

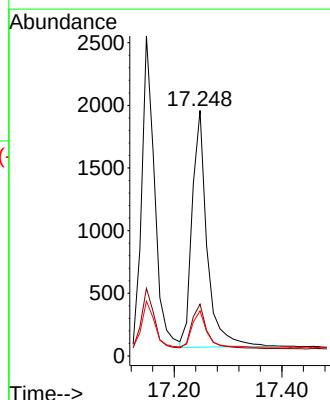
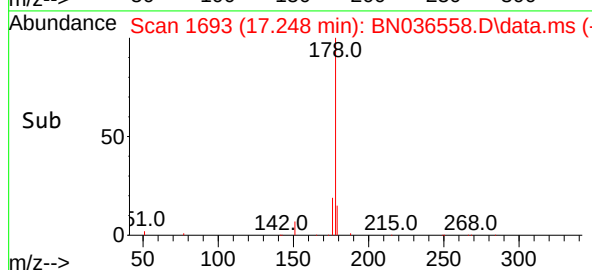
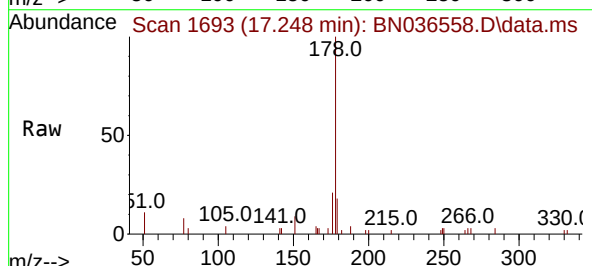
Manual Integrations
APPROVED

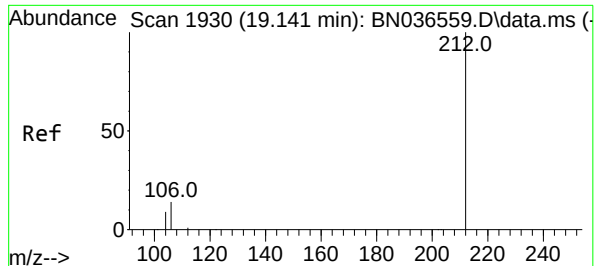
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

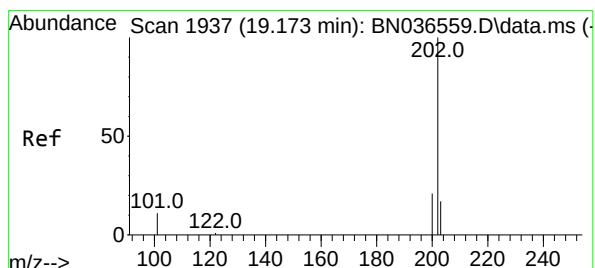
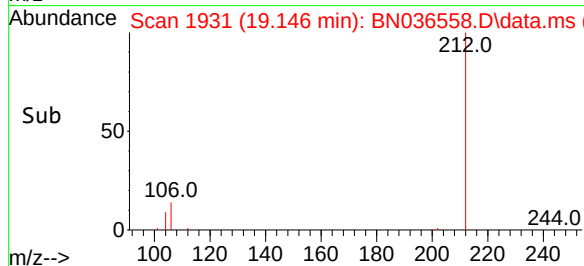
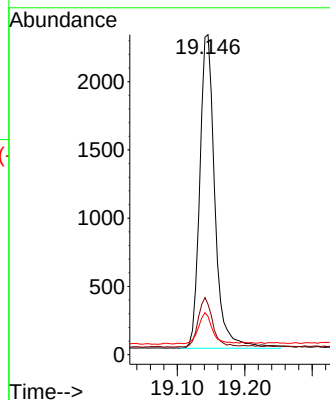
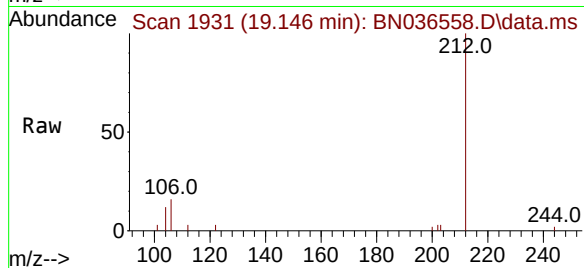
ClientSampleId :

SSTDIC0.2

Tgt Ion:	212	Resp:	358
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#28

Fluoranthene

Concen: 0.184 ng

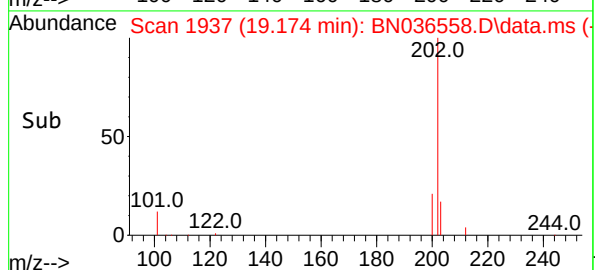
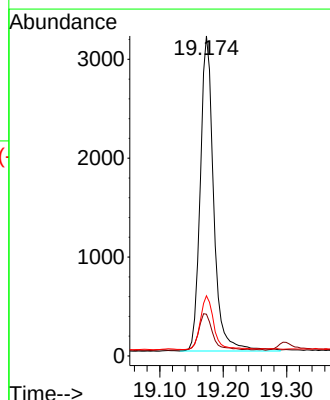
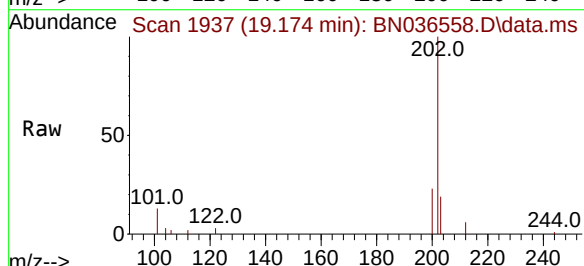
RT: 19.174 min Scan# 1937

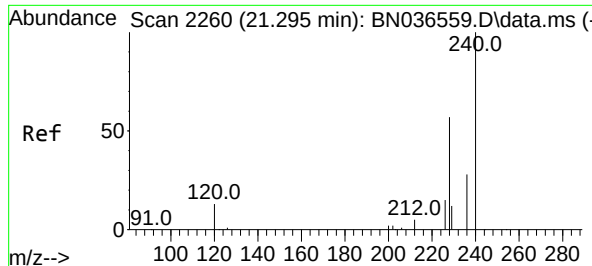
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	202	Resp:	4666
Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

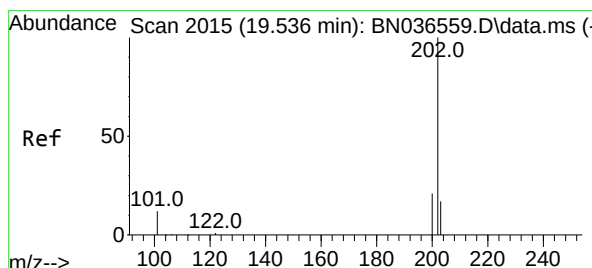
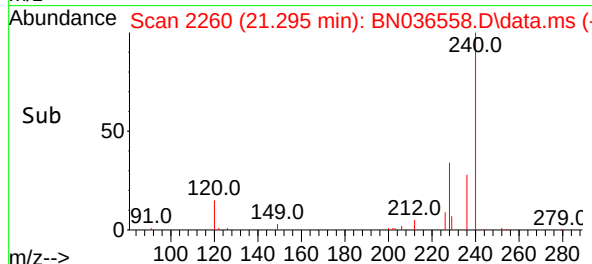
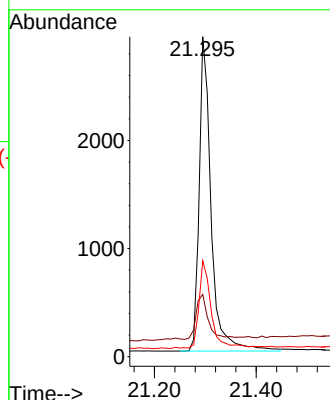
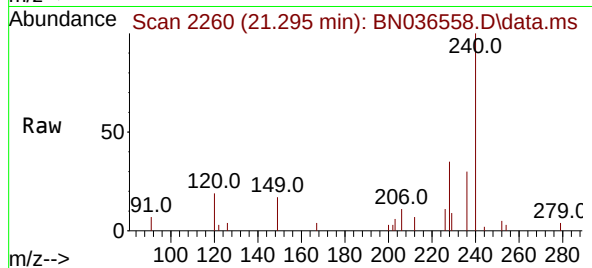
SSTDICC0.2

Tgt Ion:240	Resp:	4730
Ion Ratio	Lower	Upper
240	100	
120	19.5	14.6 22.0
236	29.9	24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#30

Pyrene

Concen: 0.205 ng

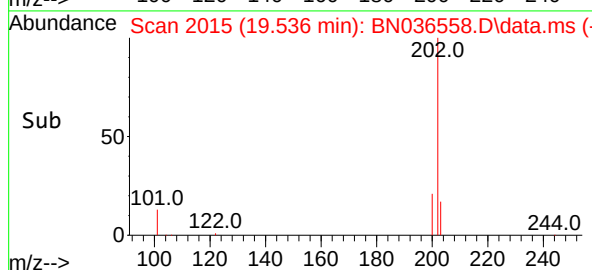
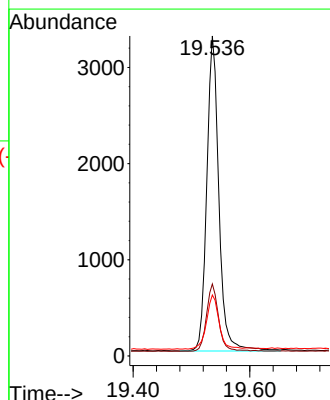
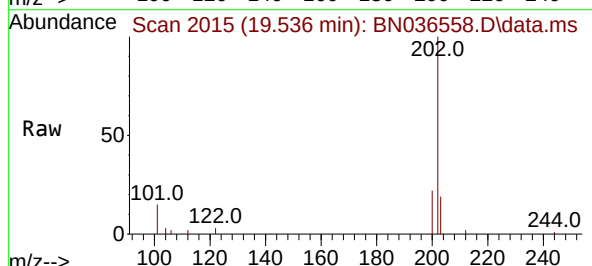
RT: 19.536 min Scan# 2015

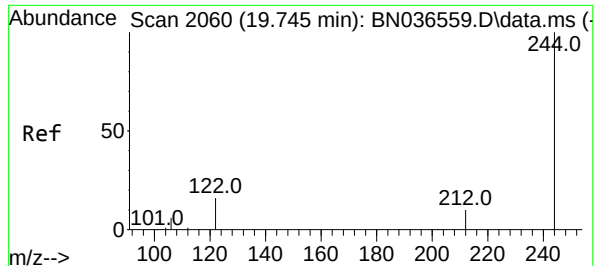
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

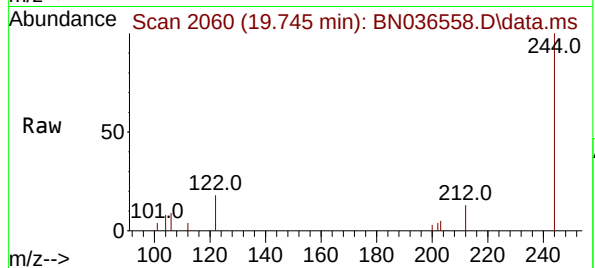
Tgt Ion:202	Resp:	4742
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.1 25.7
203	17.7	14.1 21.1





#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

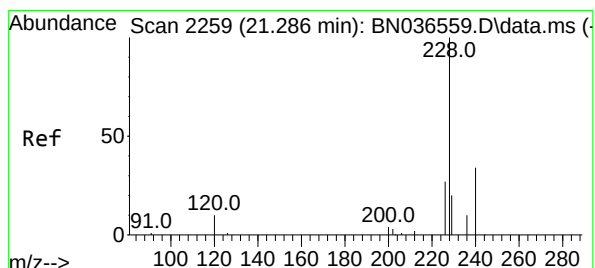
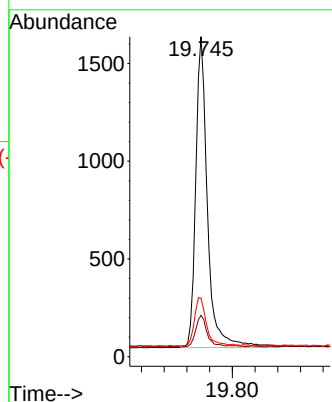
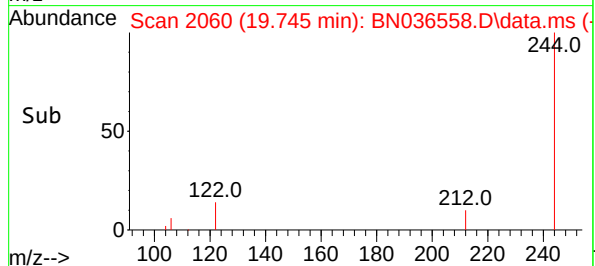
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:244 Resp: 228
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 18.3 13.9 20.9

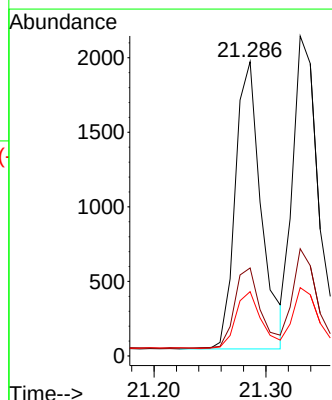
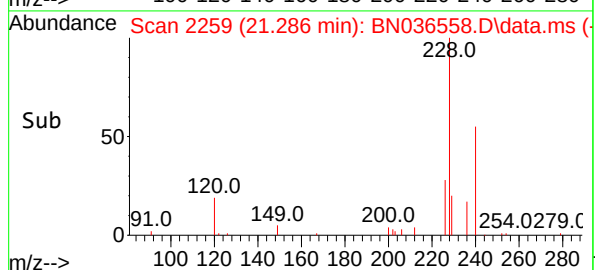
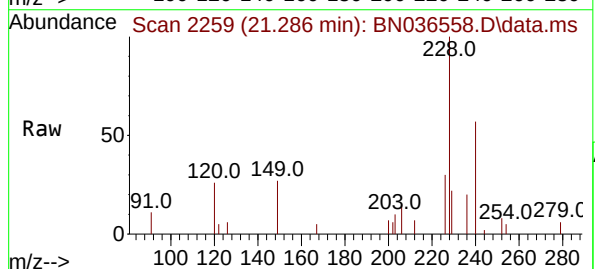
Manual Integrations
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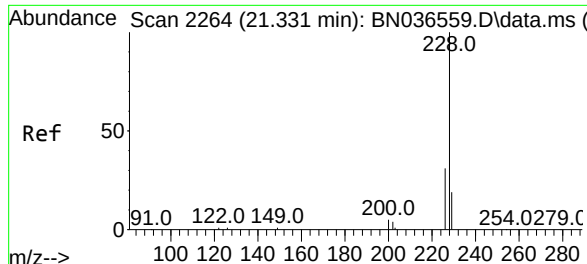
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 3111
Ion Ratio Lower Upper
228 100
226 29.9 22.5 33.7
229 21.9 16.6 25.0





#33

Chrysene

Concen: 0.199 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

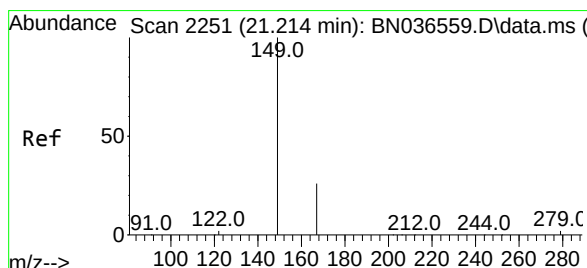
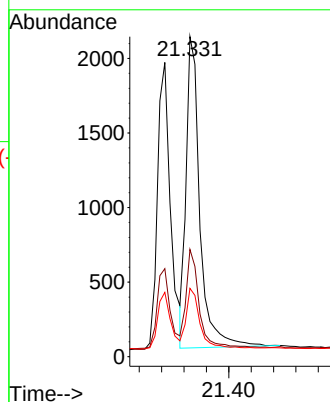
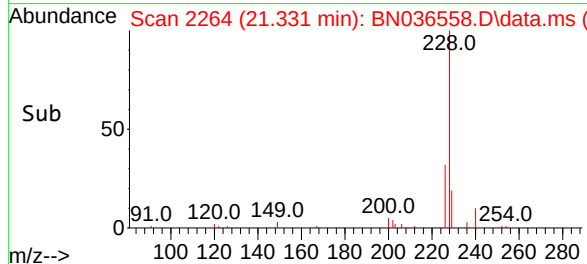
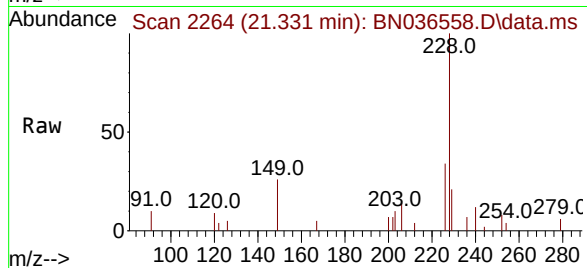
ClientSampleId :

SSTDICC0.2

Tgt Ion:	228	Resp:	356
Ion Ratio	Lower	Upper	
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

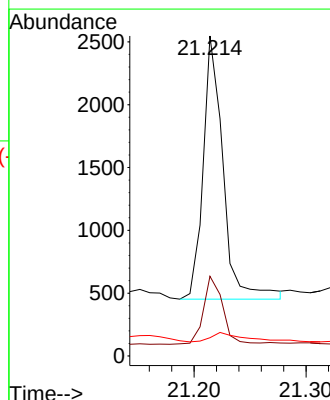
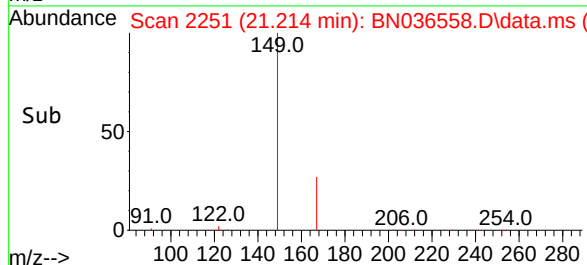
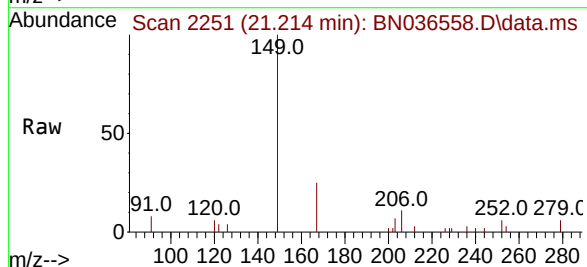
RT: 21.214 min Scan# 2251

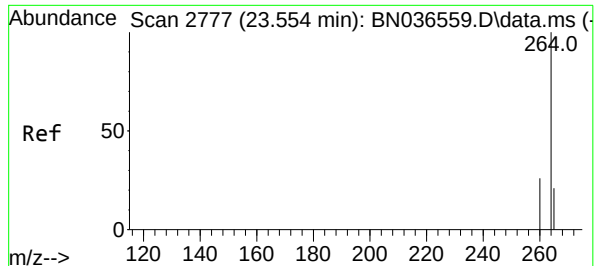
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	149	Resp:	2601
Ion Ratio	Lower	Upper	
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:264 Resp: 424

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

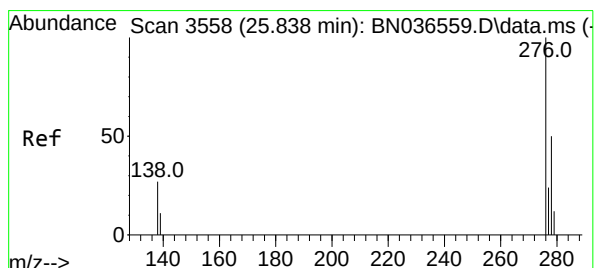
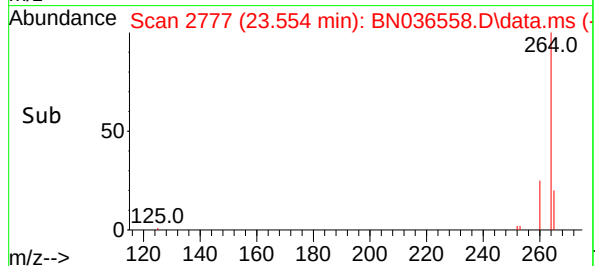
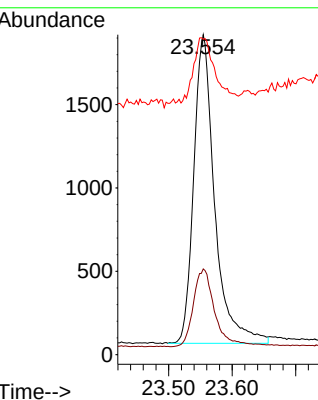
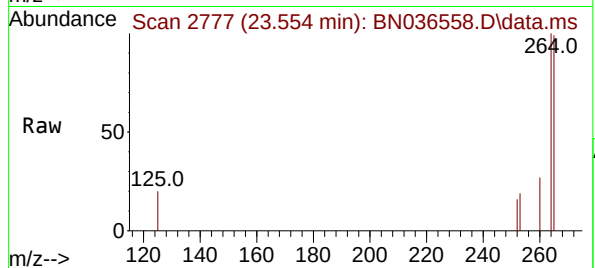
265 98.5 88.1 132.1

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

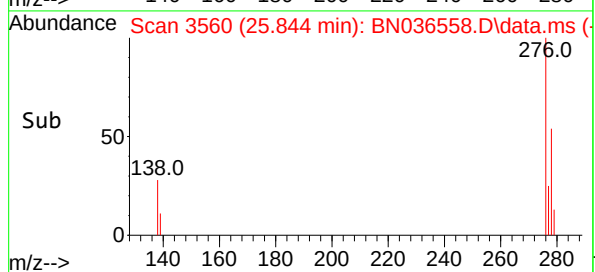
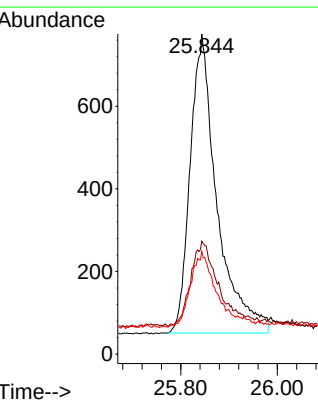
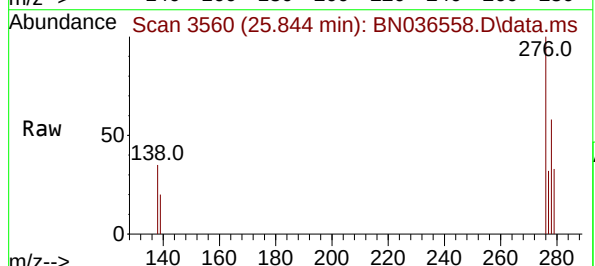
Tgt Ion:276 Resp: 2790

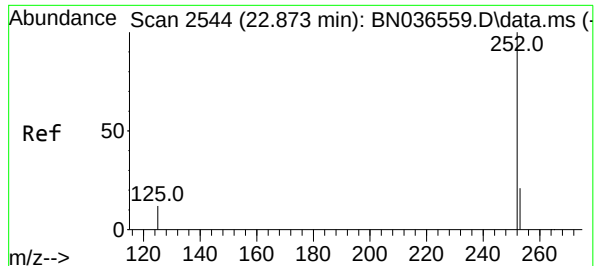
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

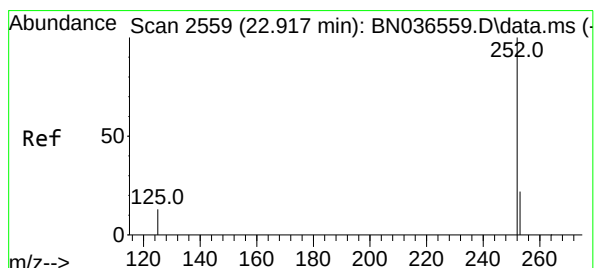
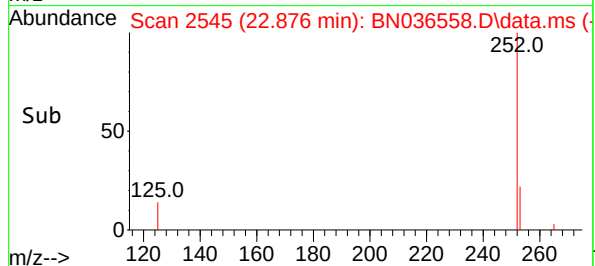
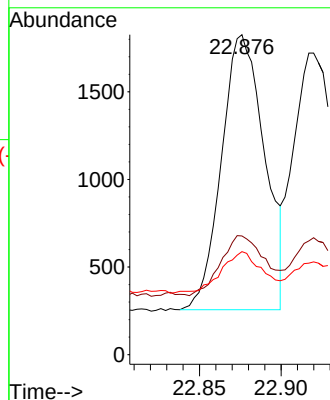
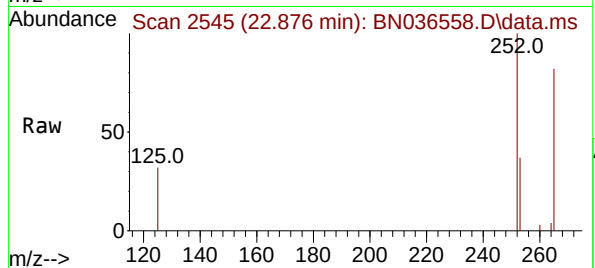
SSTDICC0.2

Tgt Ion:252	Resp:	288
Ion Ratio	Lower	Upper
252	100	
253	37.1	23.9 35.9
125	32.2	17.4 26.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

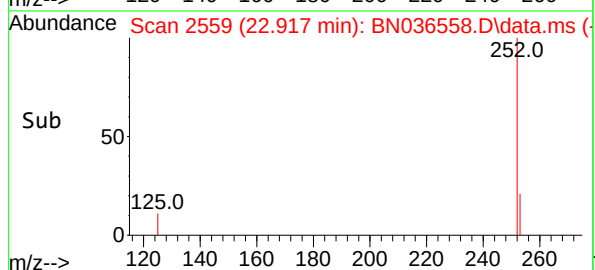
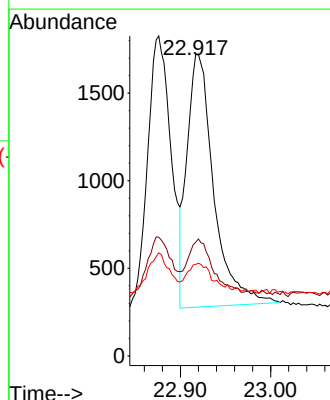
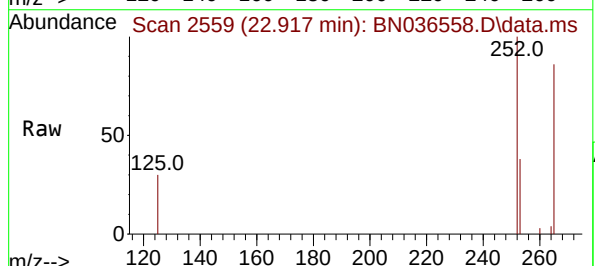
RT: 22.917 min Scan# 2559

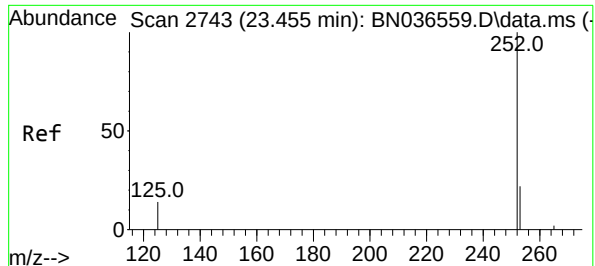
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:252	Resp:	2962
Ion Ratio	Lower	Upper
252	100	
253	37.7	24.6 36.8
125	30.3	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

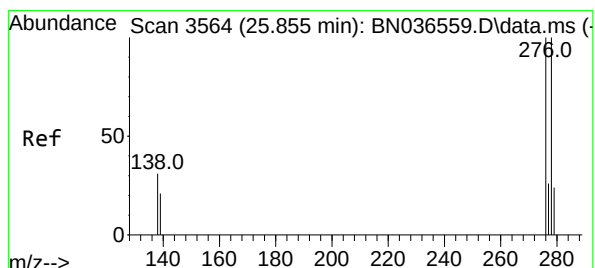
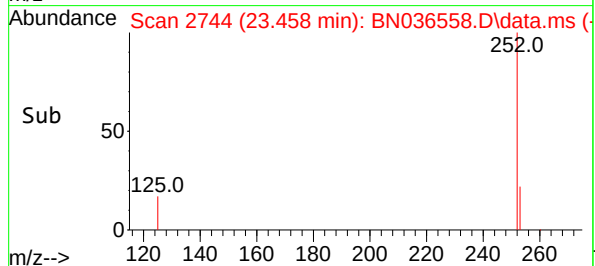
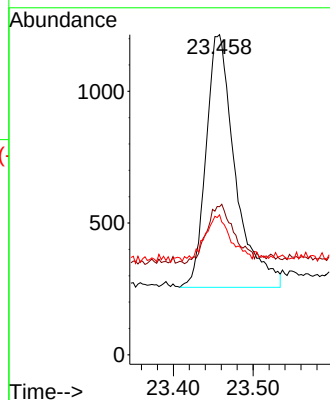
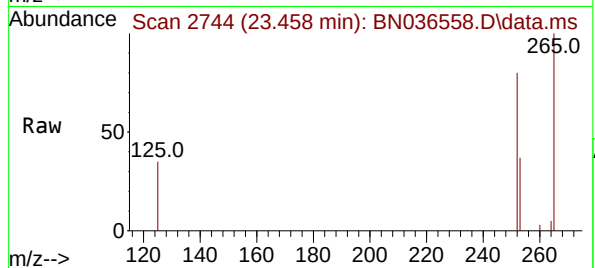
Tgt Ion:	252	Resp:	244
Ion Ratio	Lower	Upper	
252	100		
253	46.3	27.8	41.8
125	43.7	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

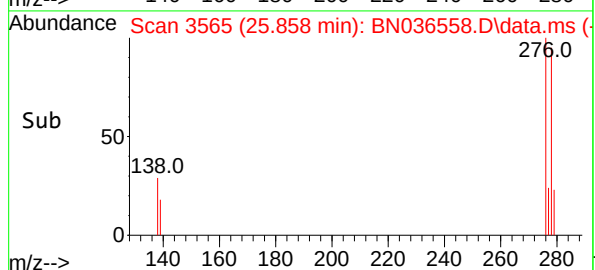
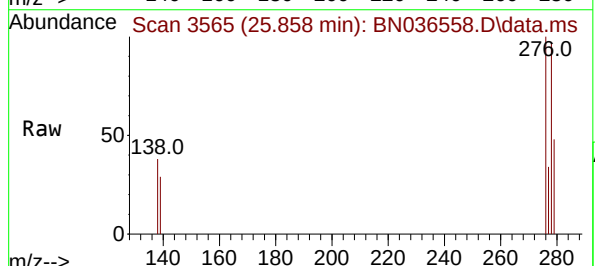
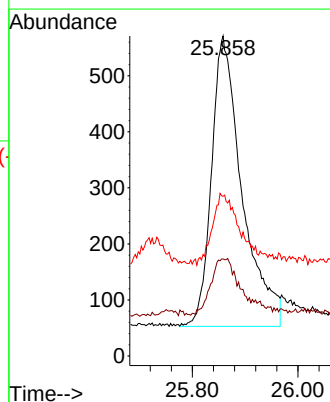
RT: 25.858 min Scan# 3565

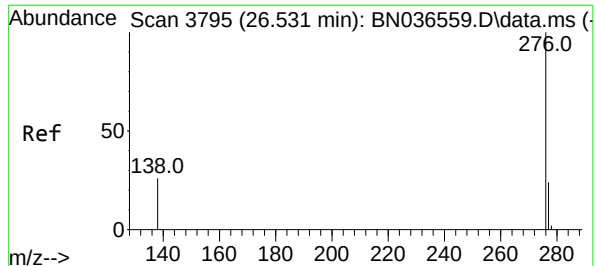
Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	278	Resp:	2080
Ion Ratio	Lower	Upper	
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.189 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036558.D

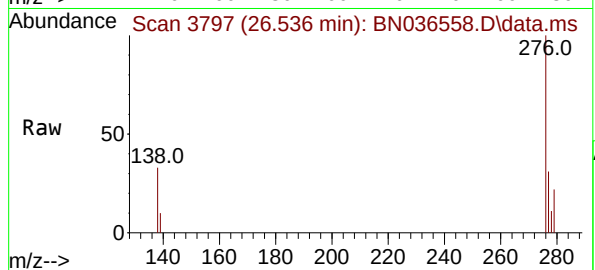
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 257

Ion Ratio Lower Upper

276 100

277 31.2 22.2 33.4

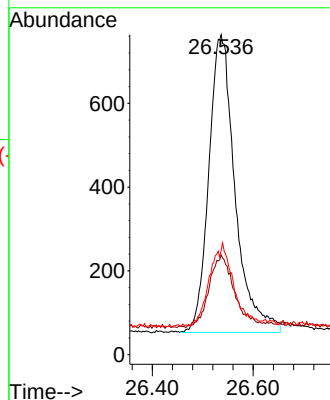
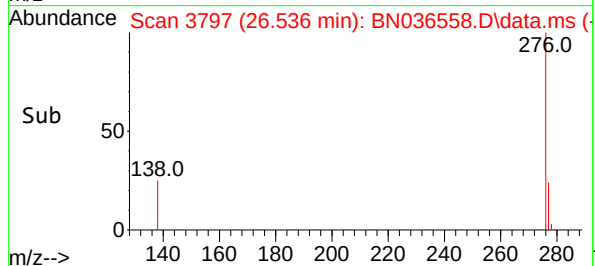
138 32.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By : Anahy Claudio 03/11/2025

Supervised By : Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036559.D
 Acq On : 10 Mar 2025 12:54
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

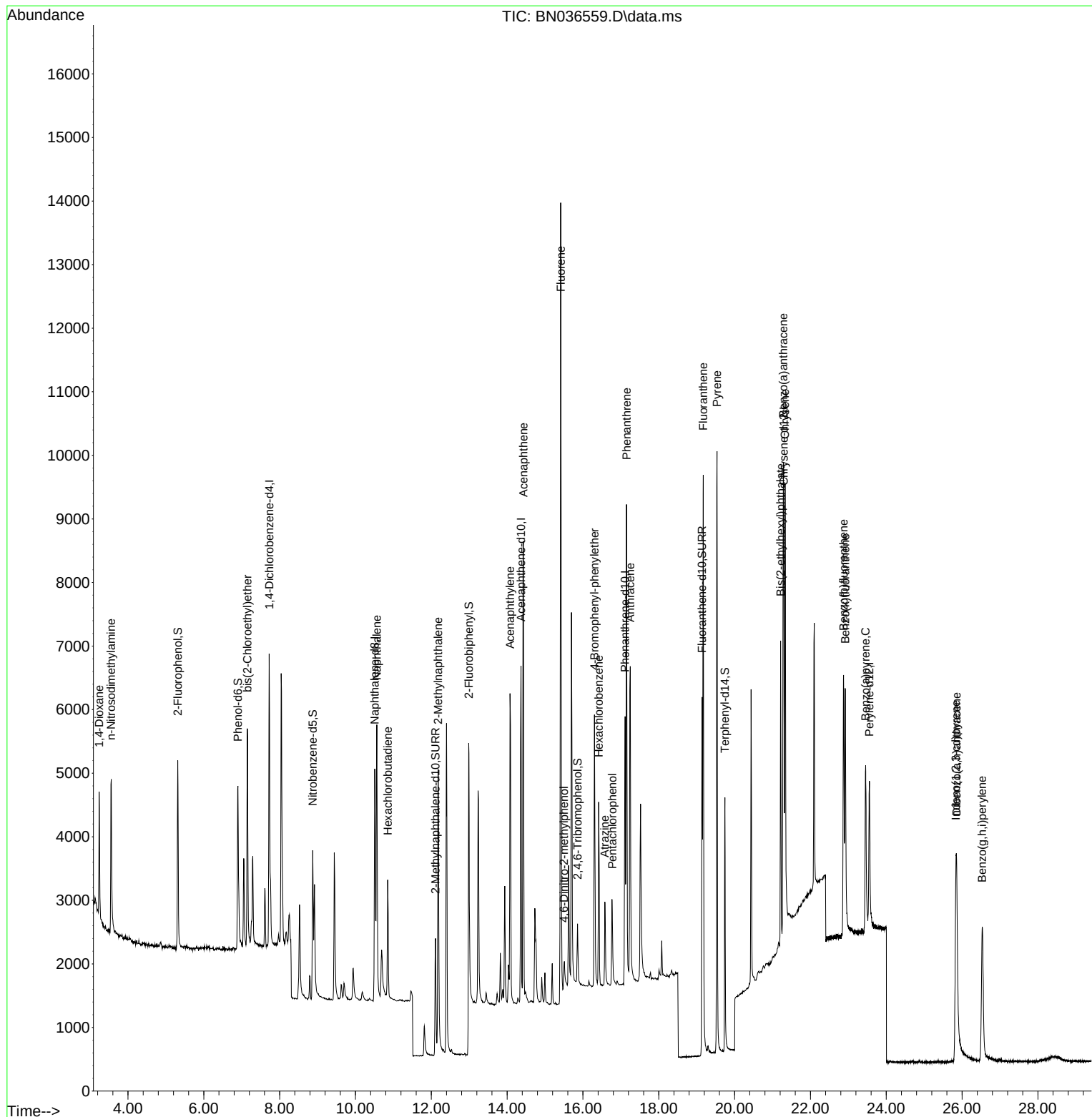
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng	0.00
35) Perylene-d12	23.554	264	3539	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2178	0.423	ng	0.00
5) Phenol-d6	6.901	99	2489	0.392	ng	0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng	0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng	0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng	100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng	100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng	100
9) Naphthalene	10.562	128	6139	0.410	ng	100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	# 100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng	100
16) Acenaphthylene	14.077	152	5865	0.411	ng	100
17) Acenaphthene	14.430	154	3877	0.415	ng	100
18) Fluorene	15.414	166	5338	0.422	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng	100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng	100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng	100
23) Atrazine	16.577	200	1279	0.424	ng	100
24) Pentachlorophenol	16.776	266	821	0.396	ng	100
25) Phenanthrene	17.148	178	7786	0.432	ng	100
26) Anthracene	17.248	178	6886	0.424	ng	100
28) Fluoranthene	19.173	202	8717	0.431	ng	100
30) Pyrene	19.536	202	8759	0.436	ng	100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng	100
33) Chrysene	21.331	228	6617	0.424	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng	100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng	100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng	100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng	100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng	100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng	100

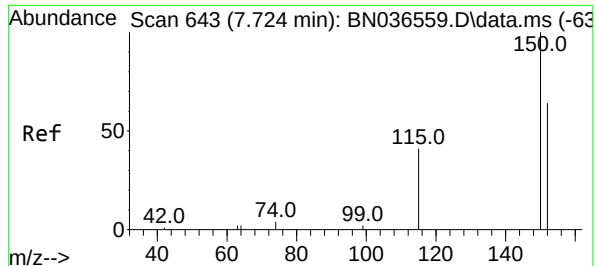
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

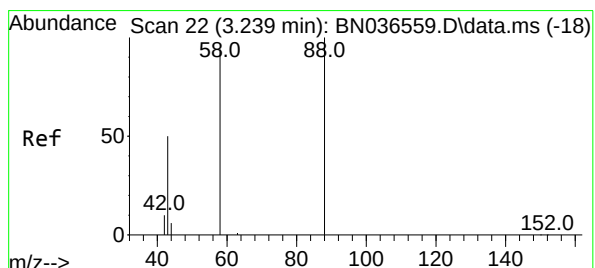
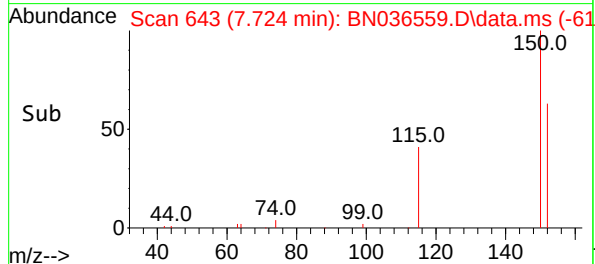
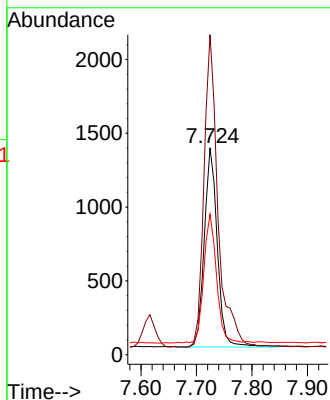
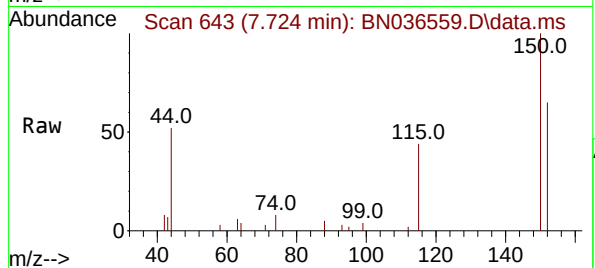




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

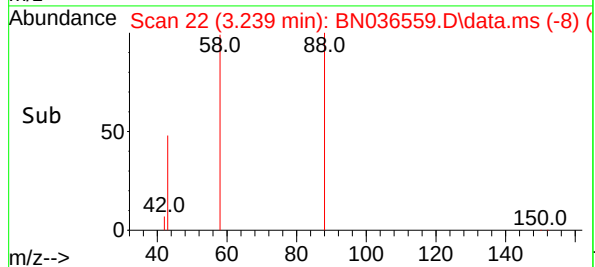
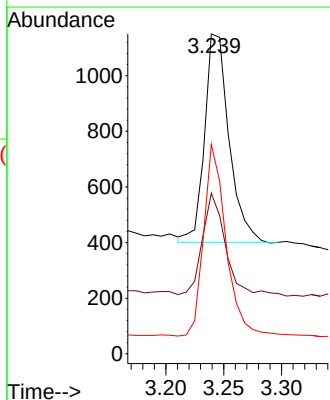
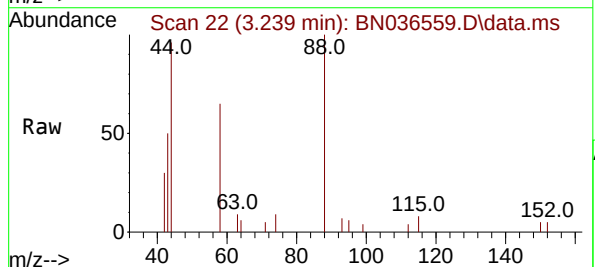
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

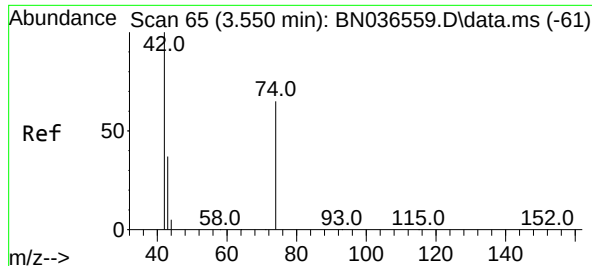
Tgt Ion:152 Resp: 2207
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099
Ion Ratio Lower Upper
88 100
43 47.3 37.8 56.8
58 84.3 67.4 101.2

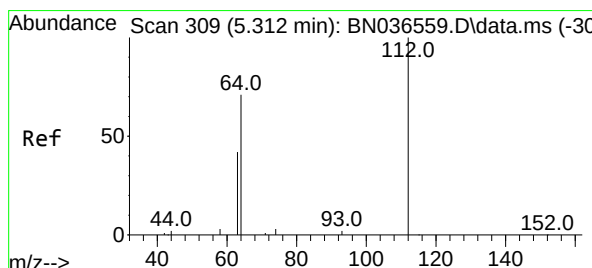
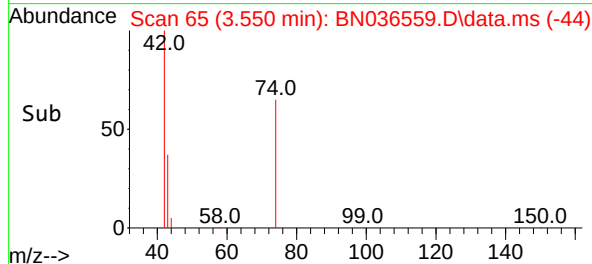
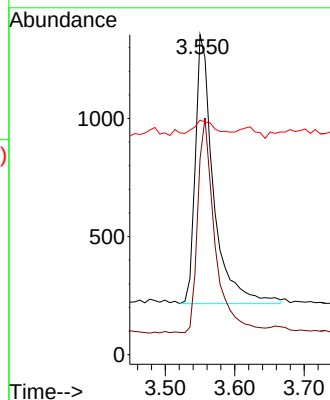
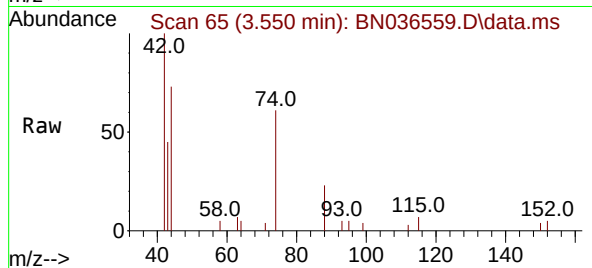




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

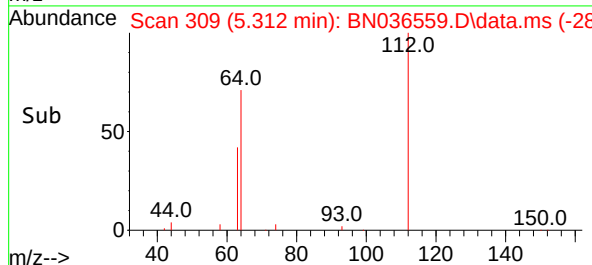
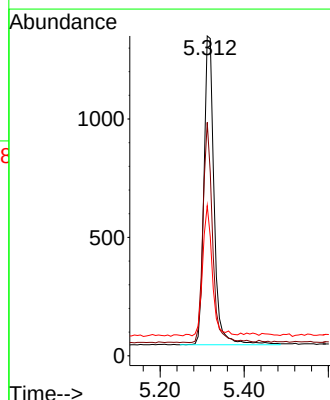
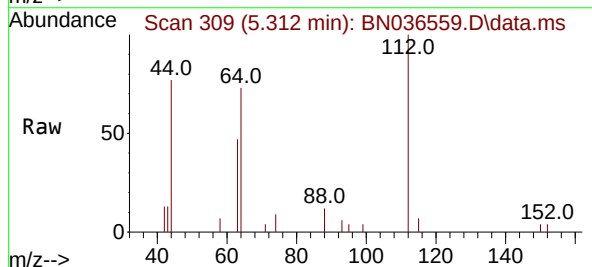
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

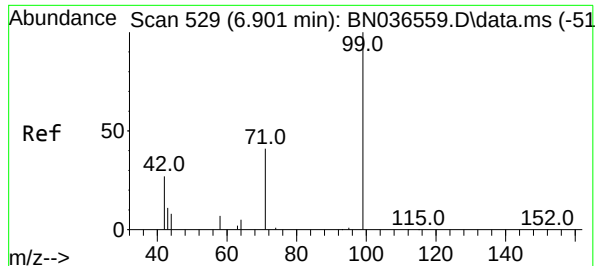
Tgt Ion: 42 Resp: 2063
Ion Ratio Lower Upper
42 100
74 75.7 60.6 90.8
44 7.9 6.3 9.5



#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 112 Resp: 2178
Ion Ratio Lower Upper
112 100
64 66.4 53.1 79.7
63 39.8 31.8 47.8

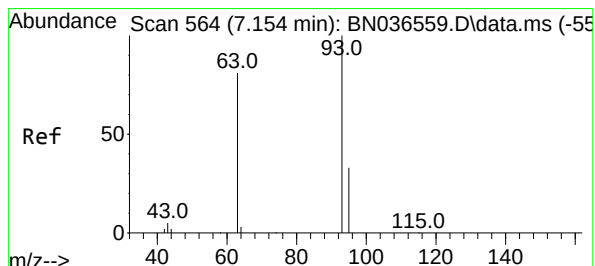
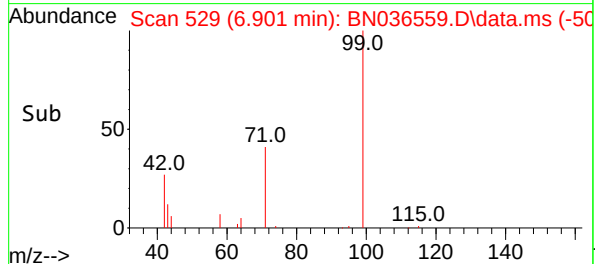
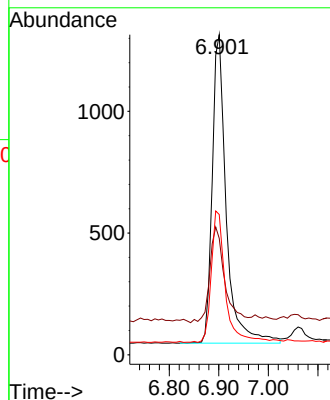
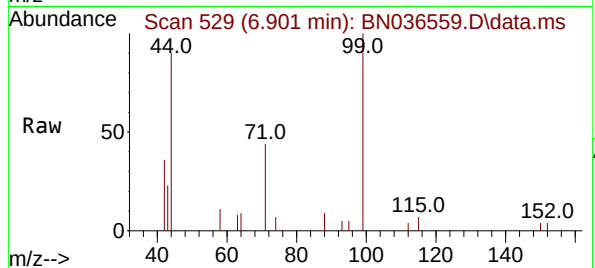




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

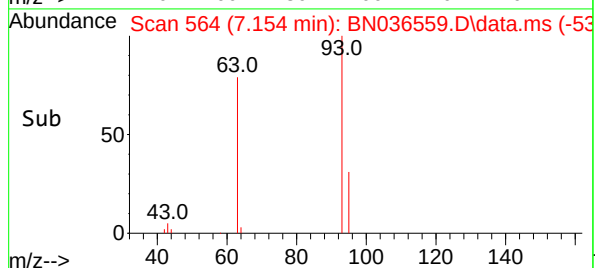
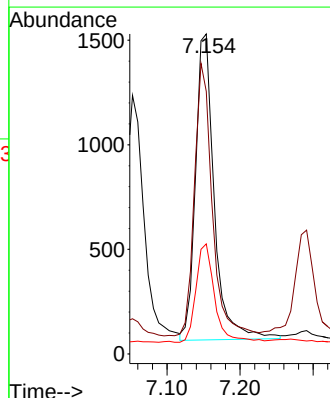
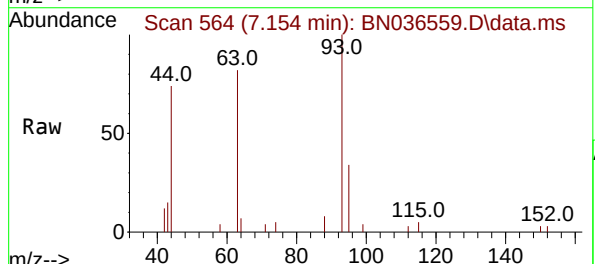
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

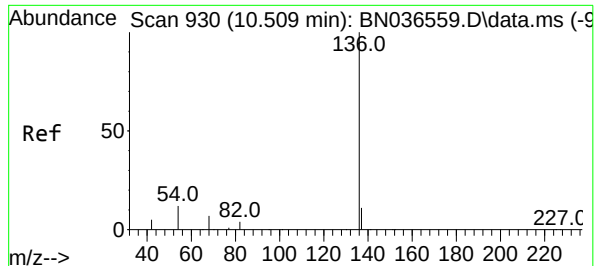
Tgt Ion: 99 Resp: 2489
Ion Ratio Lower Upper
99 100
42 33.1 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610
Ion Ratio Lower Upper
93 100
63 84.6 67.7 101.5
95 32.0 25.6 38.4

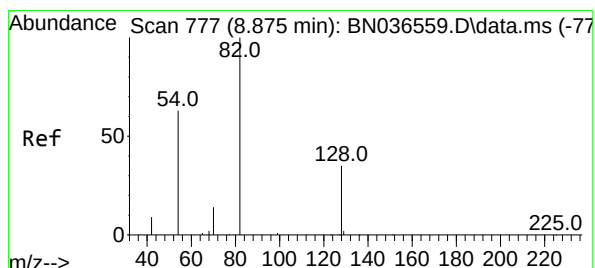
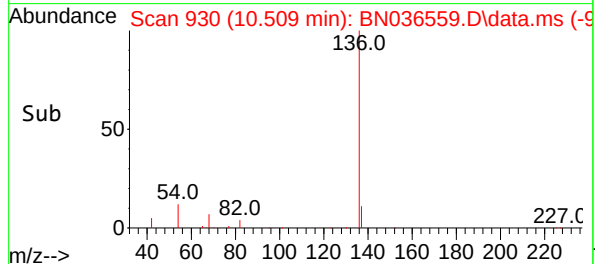
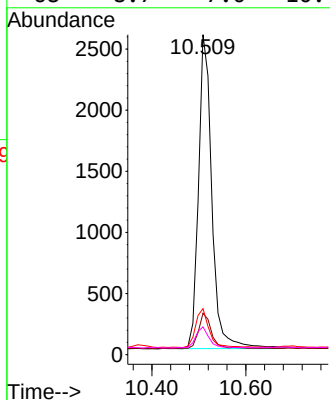
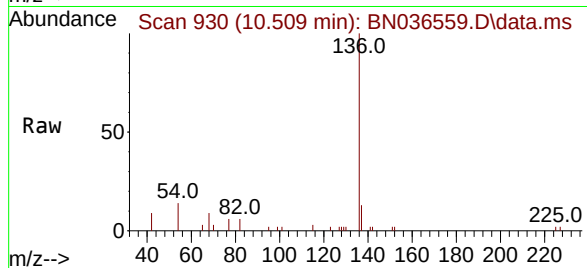




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

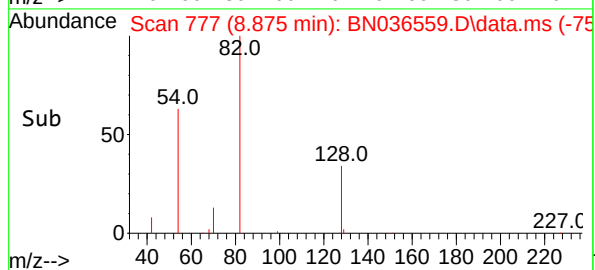
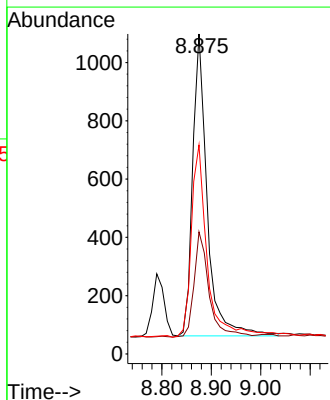
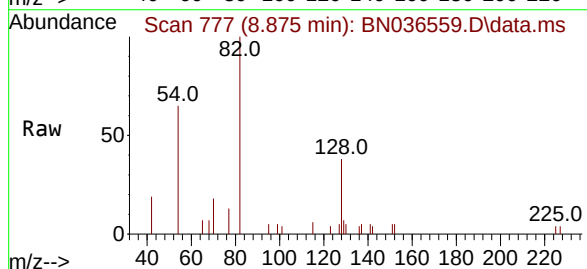
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

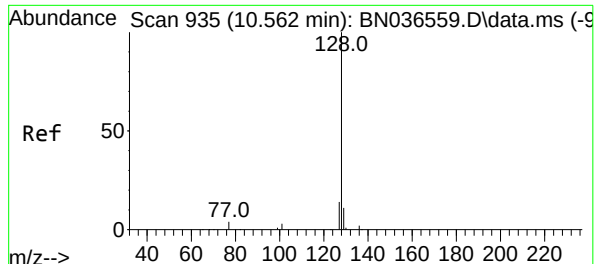
Tgt Ion:	136	Resp:	5091
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:	82	Resp:	2113
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4

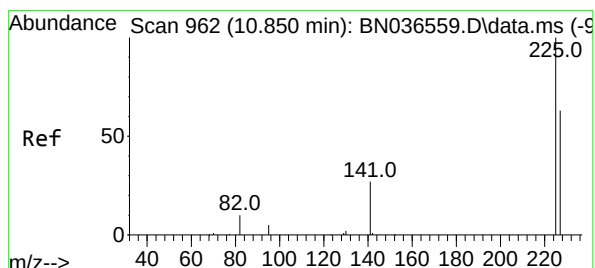
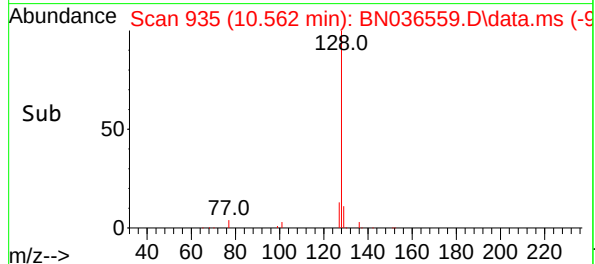
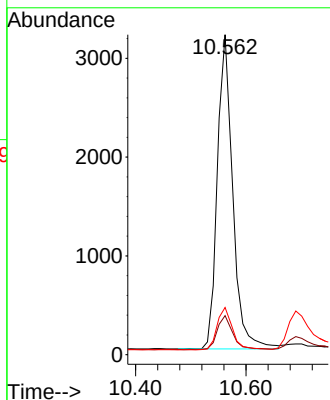
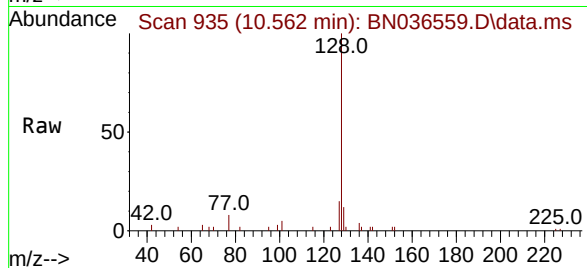




#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

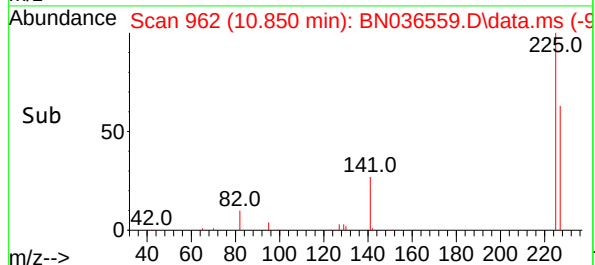
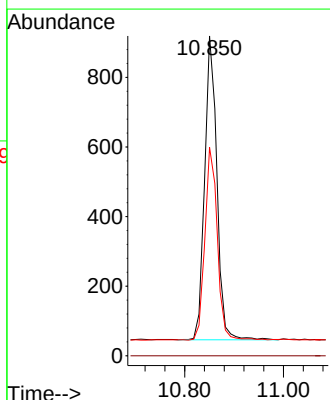
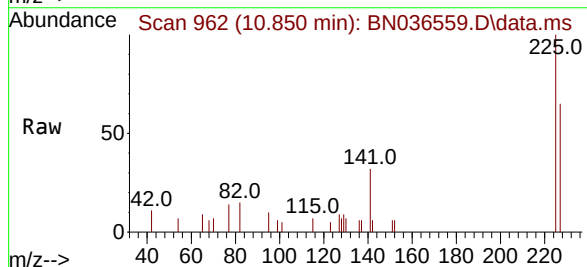
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

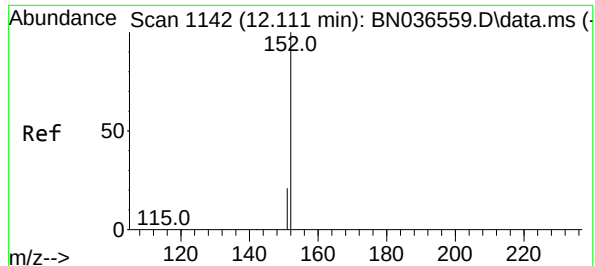
Tgt Ion:128 Resp: 6139
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.8 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:225 Resp: 1498
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

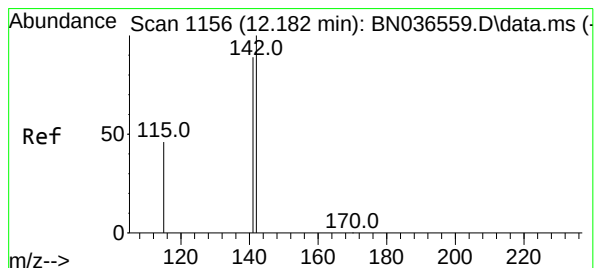
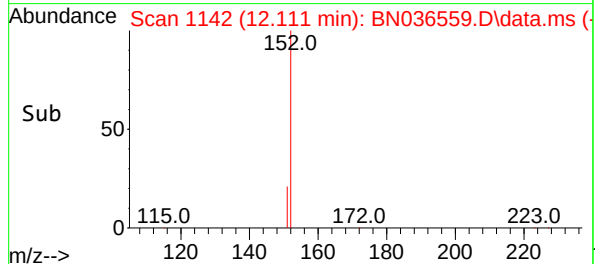
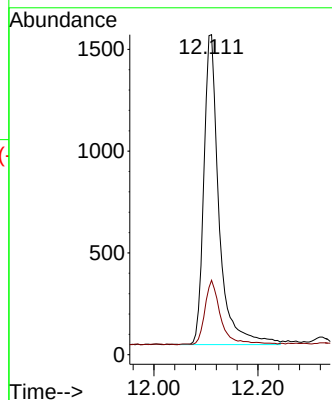
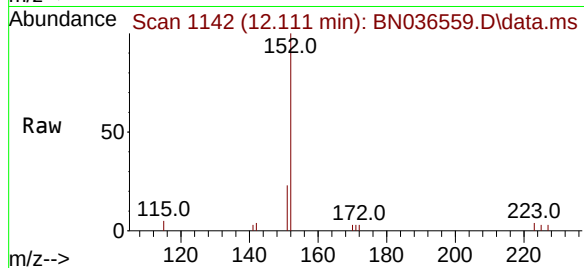




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

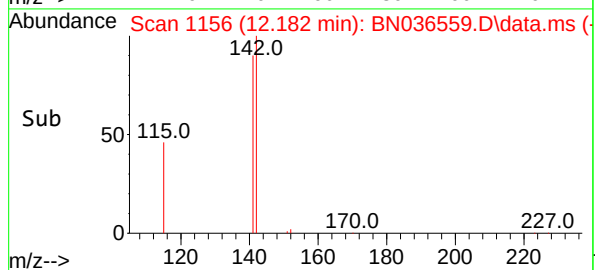
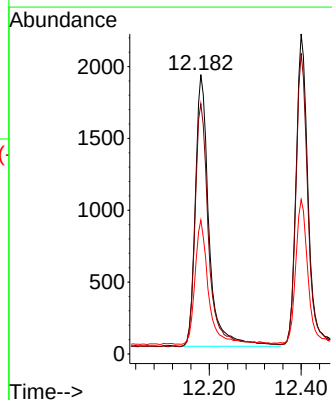
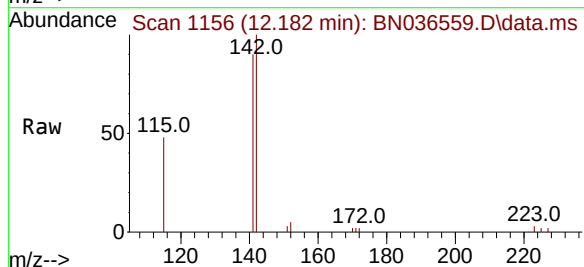
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

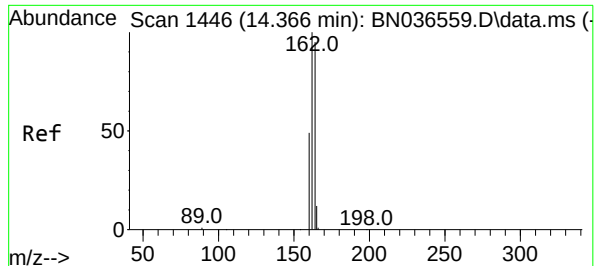
Tgt Ion:152 Resp: 3085
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 47.9 38.3 57.5

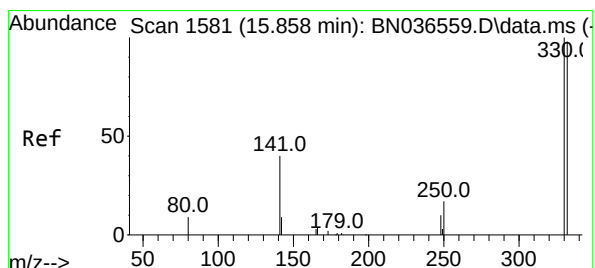
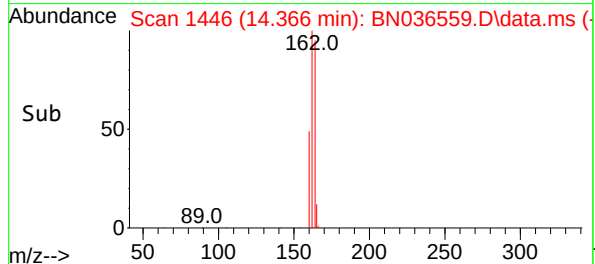
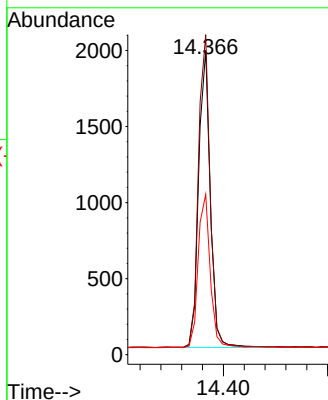
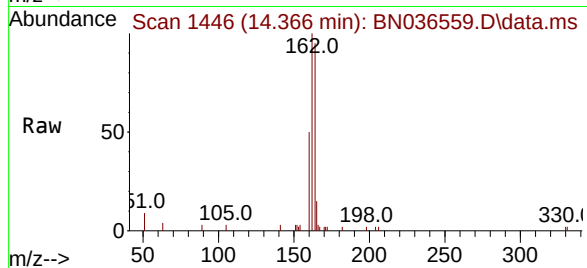




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

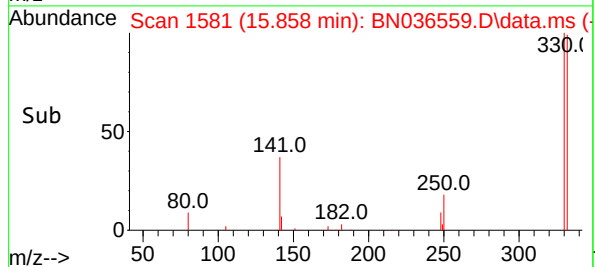
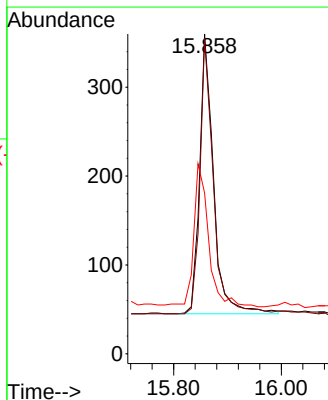
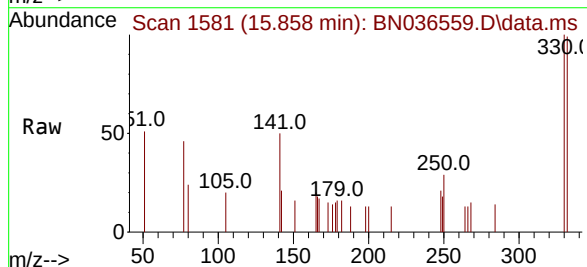
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

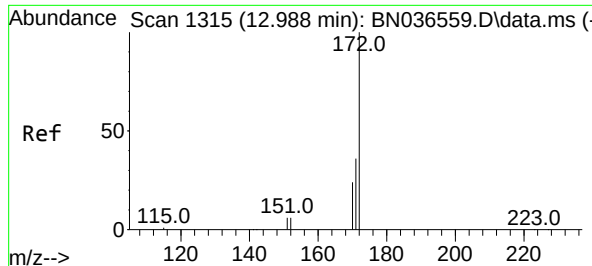
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 54.3 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.412 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

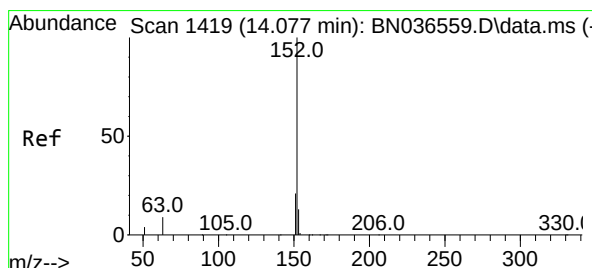
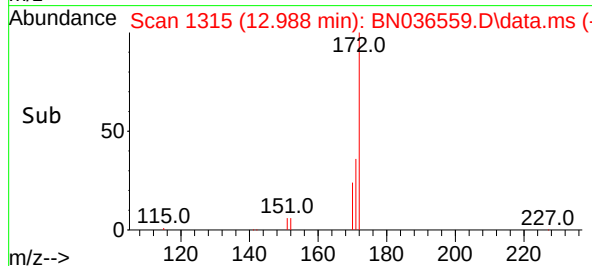
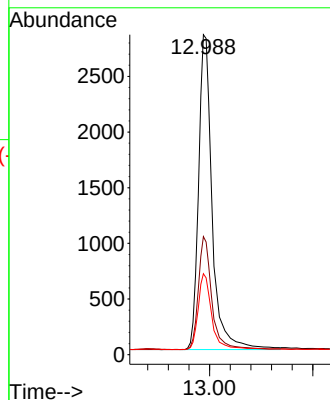
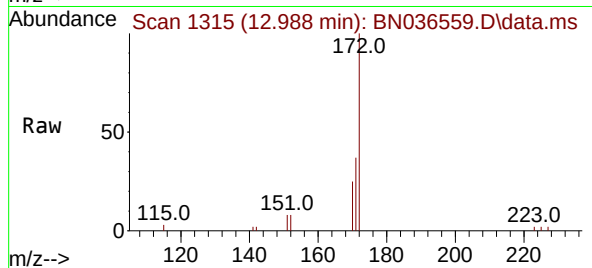
Tgt Ion:172 Resp: 7257

Ion Ratio Lower Upper

172 100

171 36.9 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.411 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

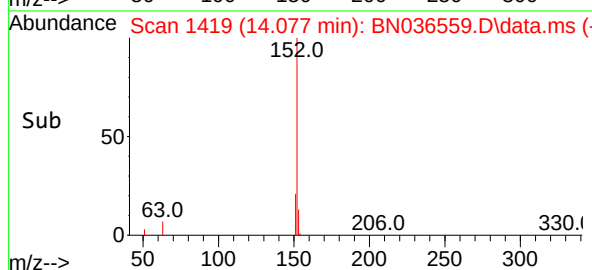
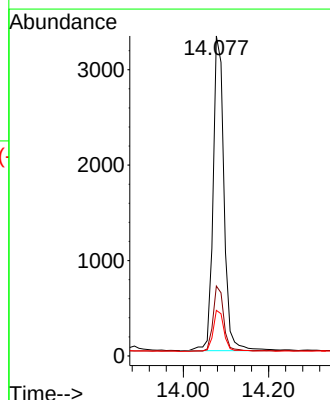
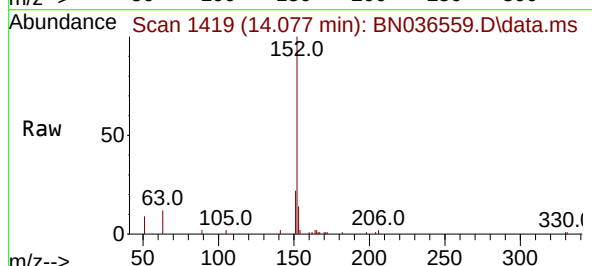
Tgt Ion:152 Resp: 5865

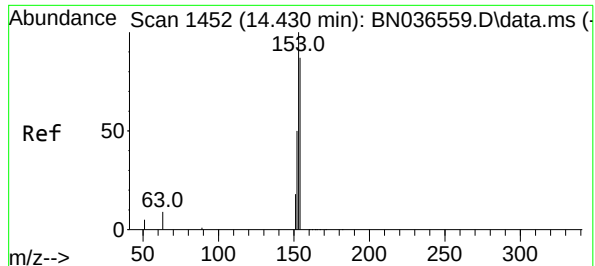
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.2 10.6 15.8





#17

Acenaphthene

Concen: 0.415 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

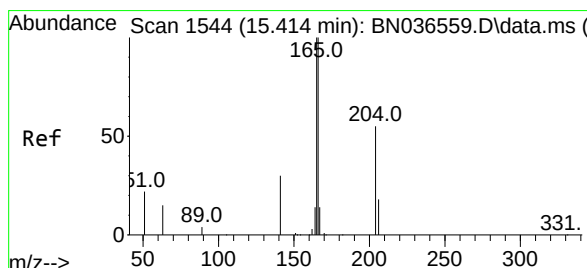
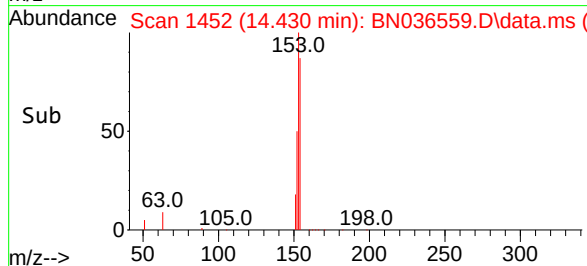
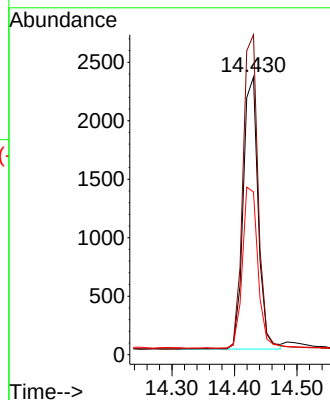
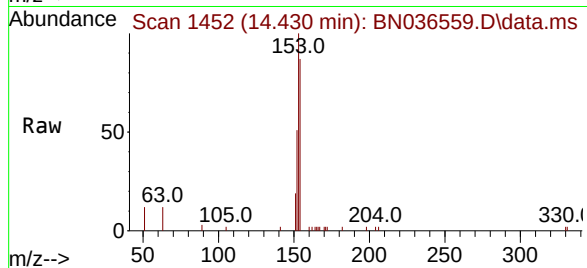
Tgt Ion:154 Resp: 3877

Ion Ratio Lower Upper

154 100

153 117.6 94.1 141.1

152 62.2 49.8 74.6



#18

Fluorene

Concen: 0.422 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

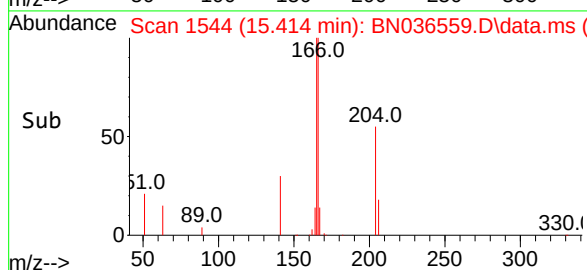
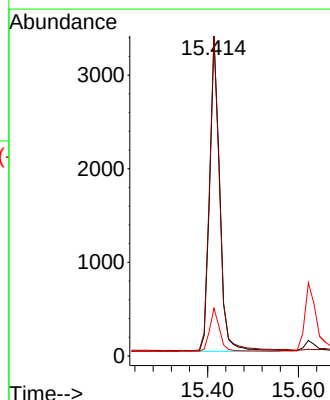
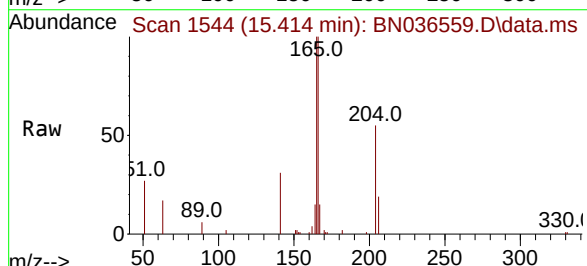
Tgt Ion:166 Resp: 5338

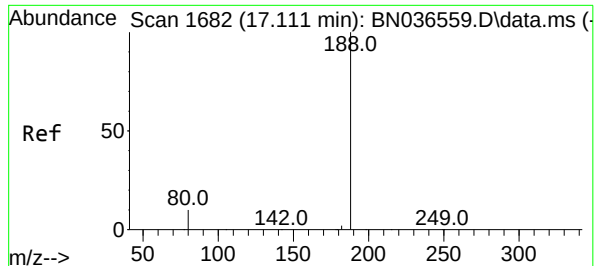
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.8

167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

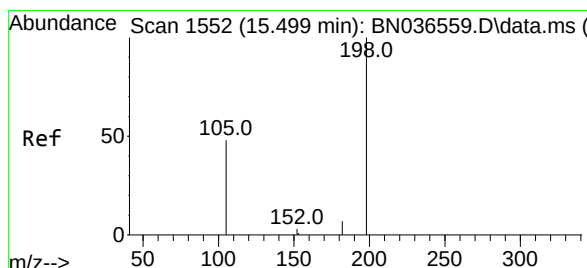
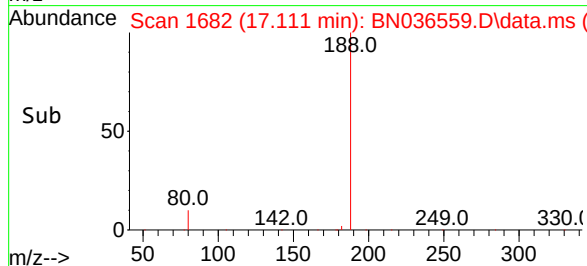
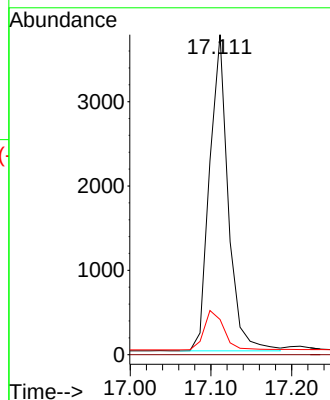
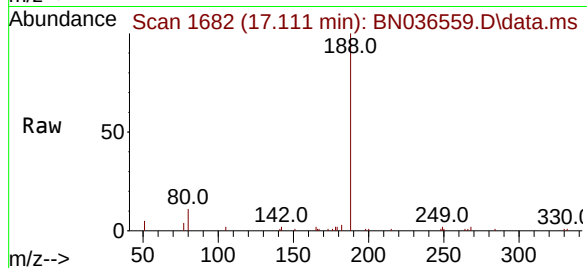
Tgt Ion:188 Resp: 6005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.447 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

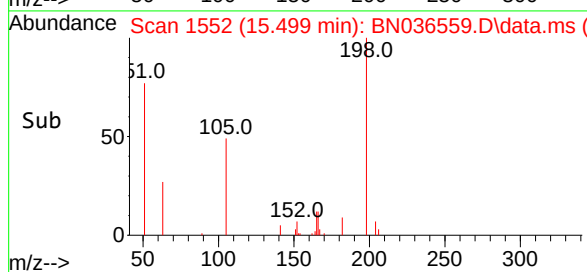
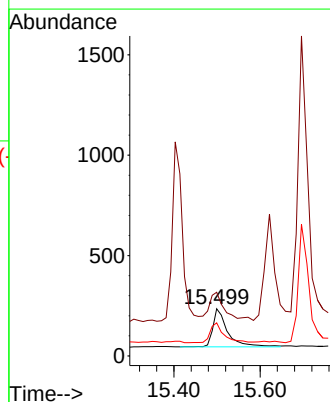
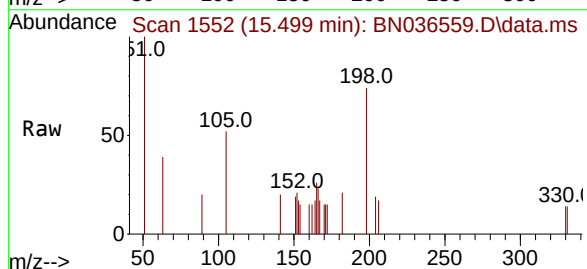
Tgt Ion:198 Resp: 462

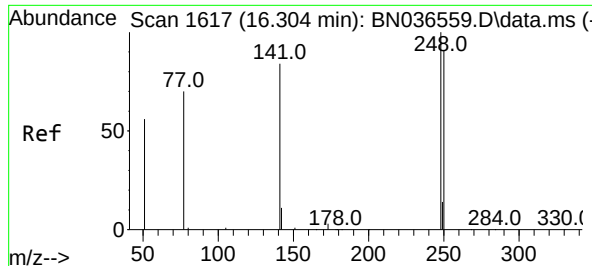
Ion Ratio Lower Upper

198 100

51 134.9 107.9 161.9

105 70.2 56.2 84.2

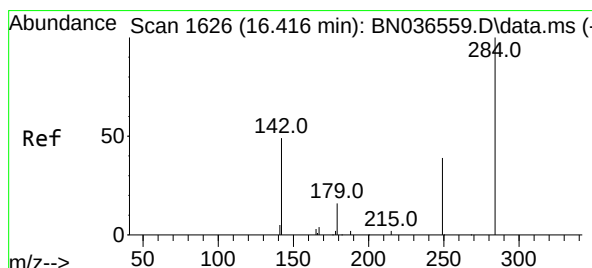
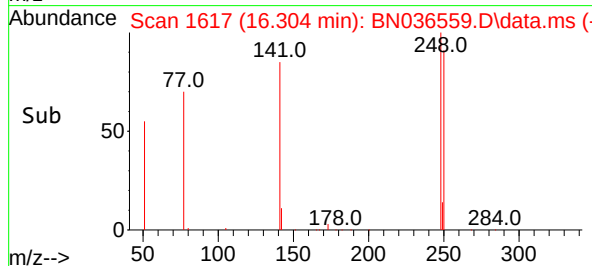
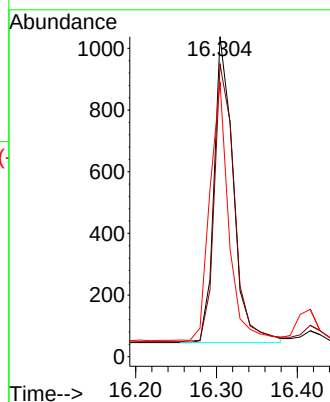
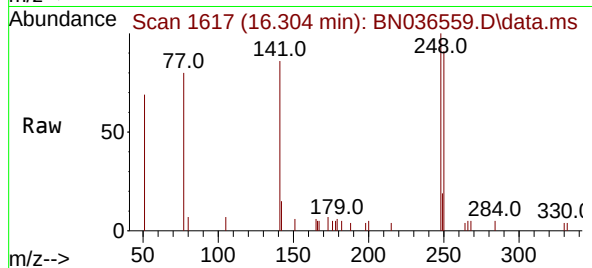




#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

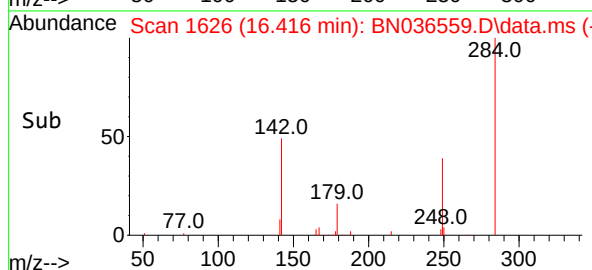
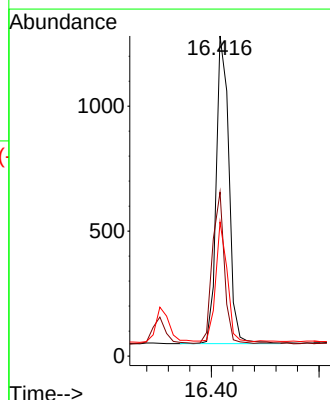
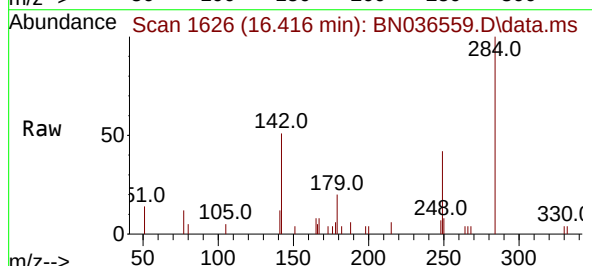
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

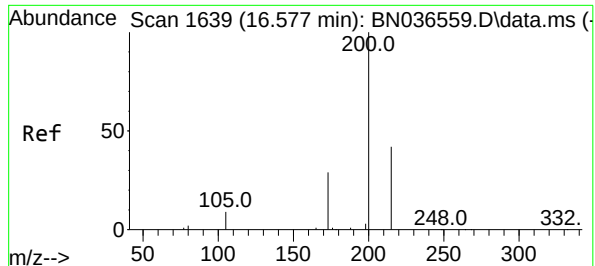
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	85.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.1	28.1	42.1





#23

Atrazine

Concen: 0.424 ng

RT: 16.577 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

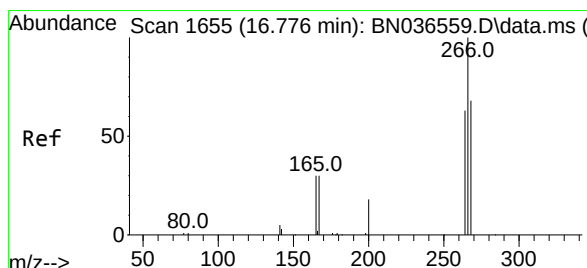
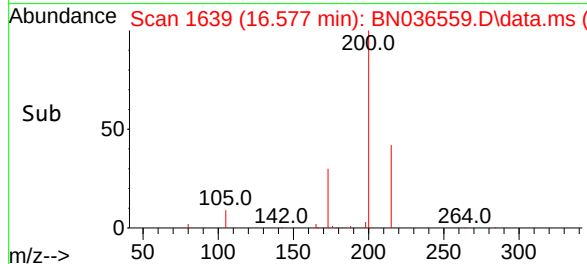
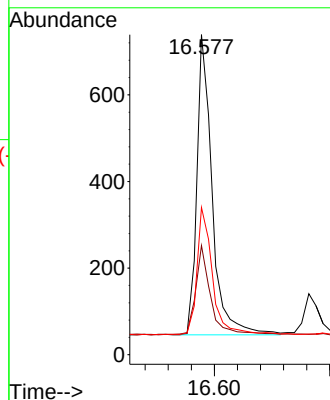
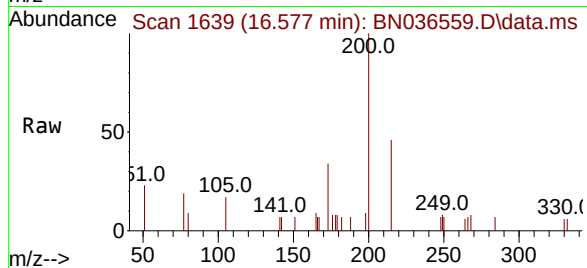
Tgt Ion:200 Resp: 1279

Ion Ratio Lower Upper

200 100

173 34.1 27.3 40.9

215 46.0 36.8 55.2



#24

Pentachlorophenol

Concen: 0.396 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

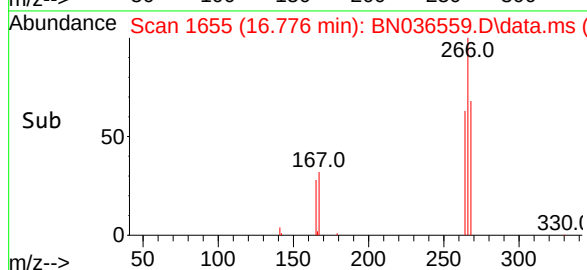
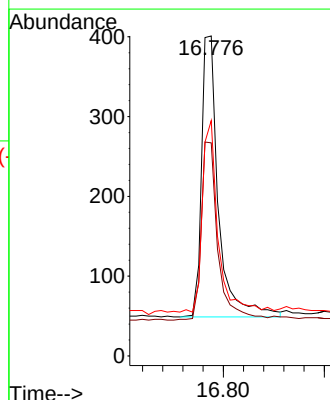
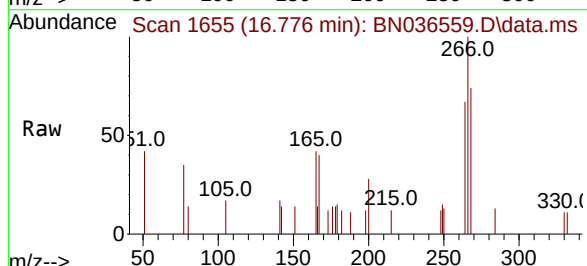
Tgt Ion:266 Resp: 821

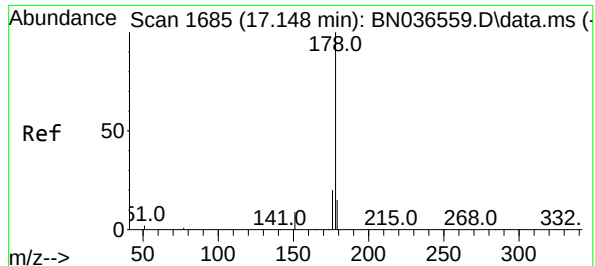
Ion Ratio Lower Upper

266 100

264 62.0 49.6 74.4

268 63.6 50.9 76.3

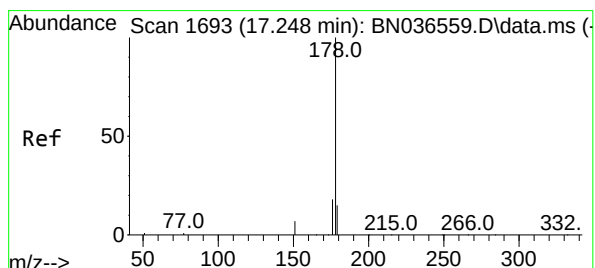
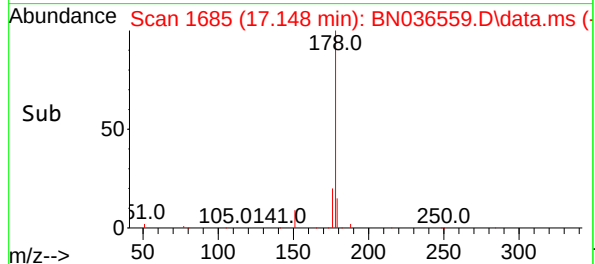
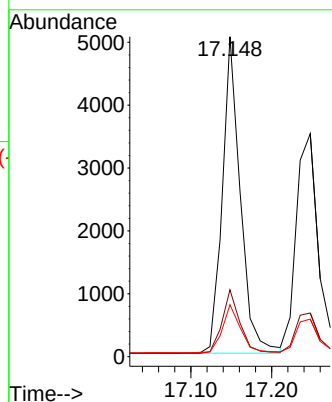
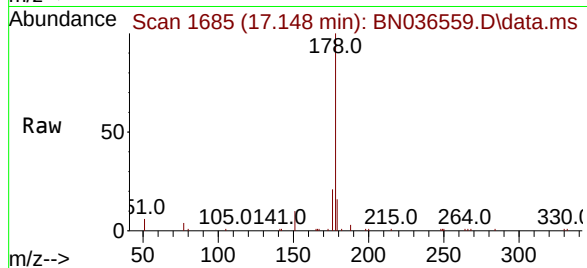




#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

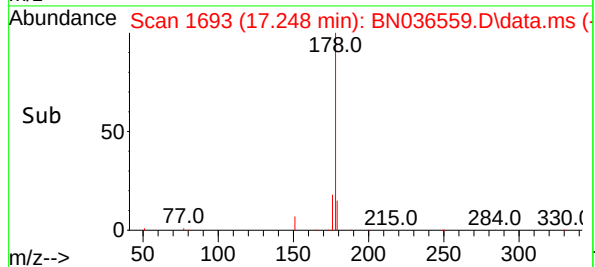
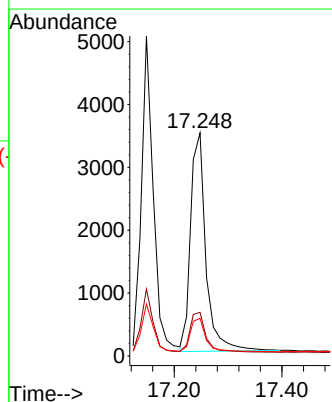
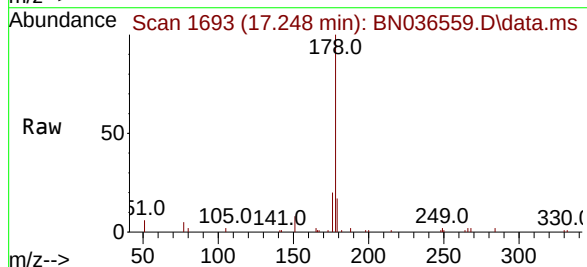
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

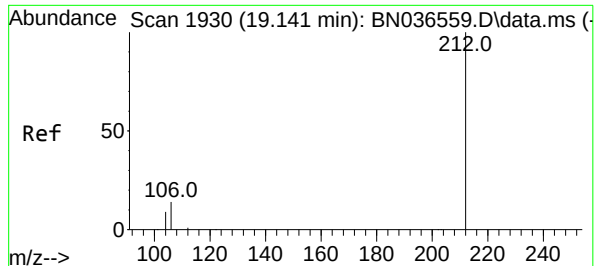
Tgt Ion:178 Resp: 7786
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

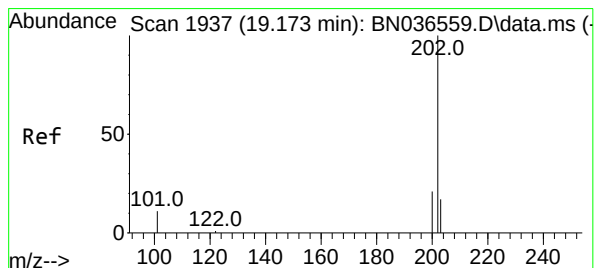
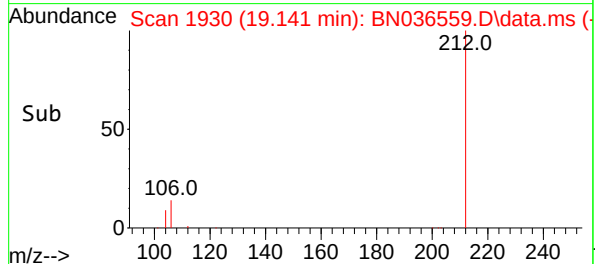
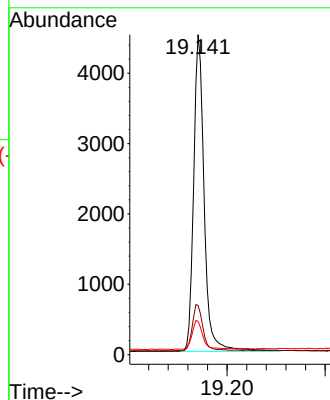
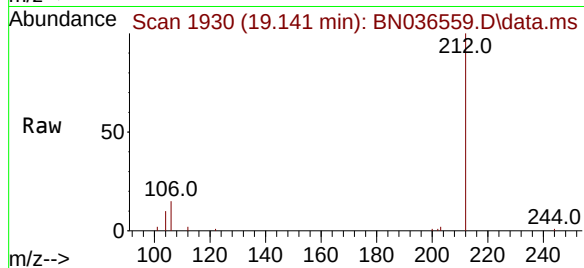
Tgt Ion:212 Resp: 6699

Ion Ratio Lower Upper

212 100

106 14.7 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.431 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

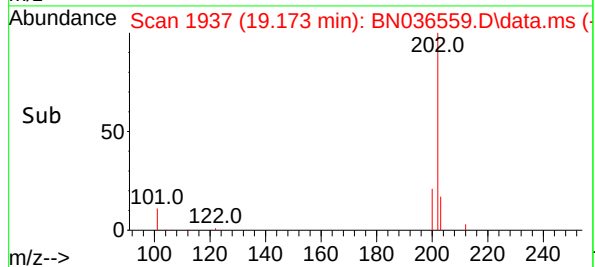
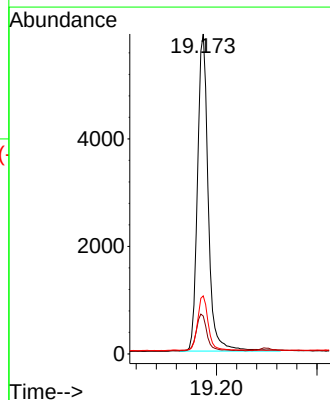
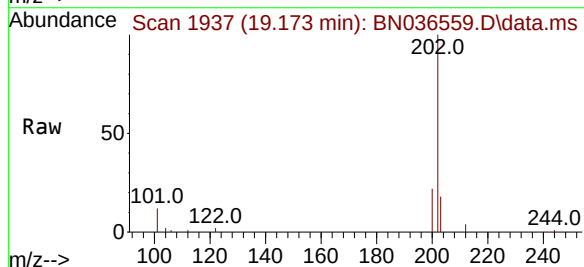
Tgt Ion:202 Resp: 8717

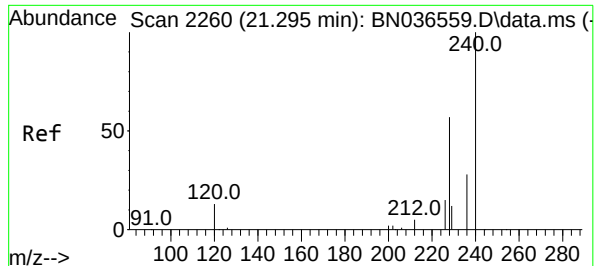
Ion Ratio Lower Upper

202 100

101 11.7 9.4 14.0

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

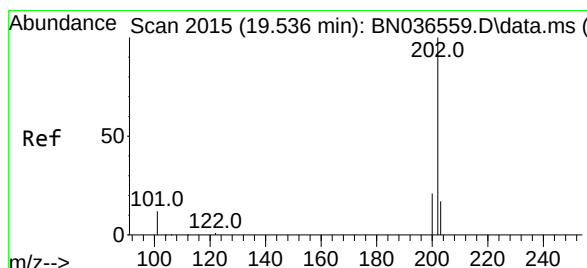
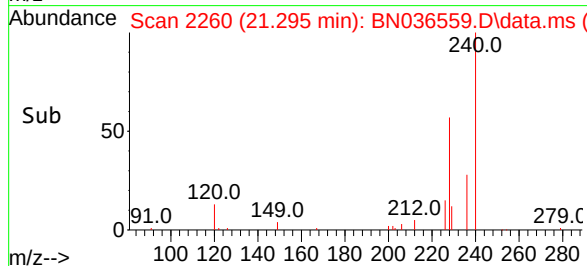
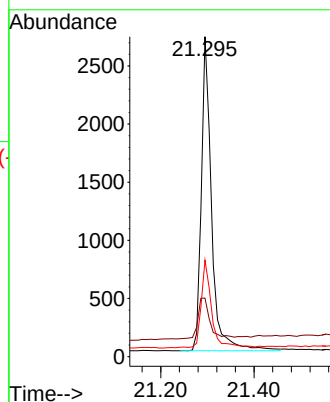
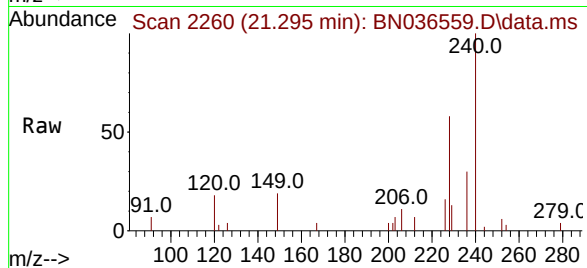
Tgt Ion:240 Resp: 4110

Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

236 30.1 24.1 36.1



#30

Pyrene

Concen: 0.436 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

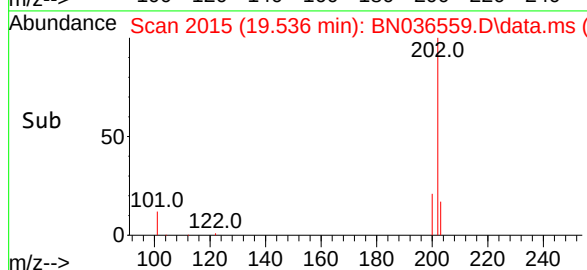
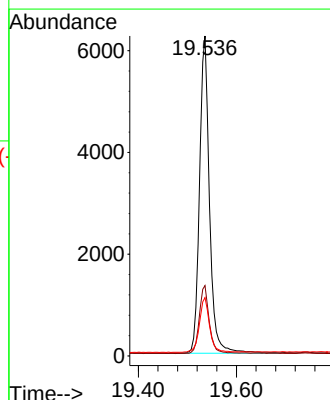
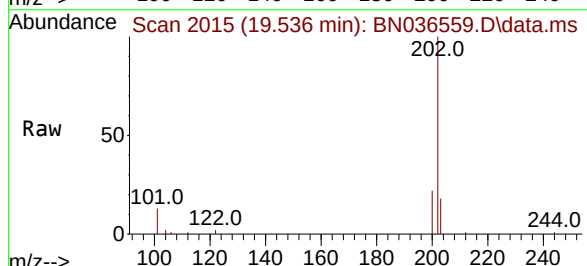
Tgt Ion:202 Resp: 8759

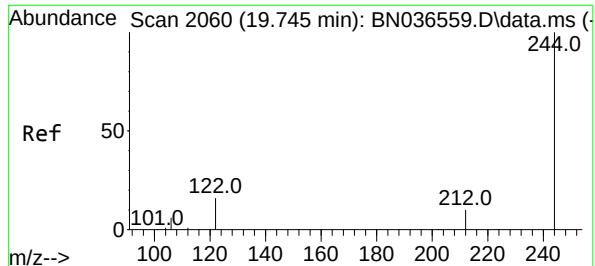
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

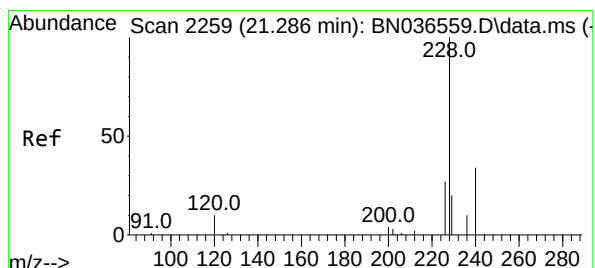
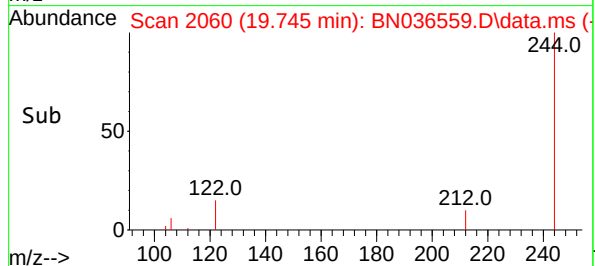
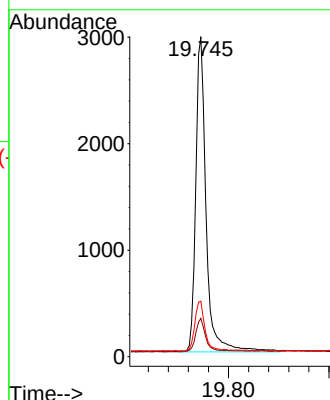
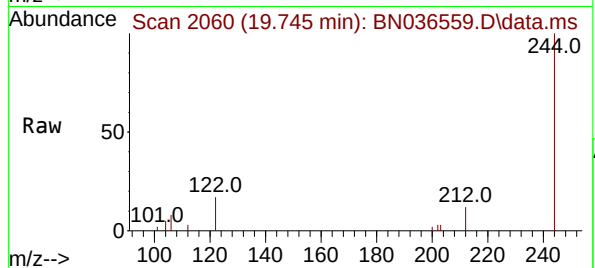




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

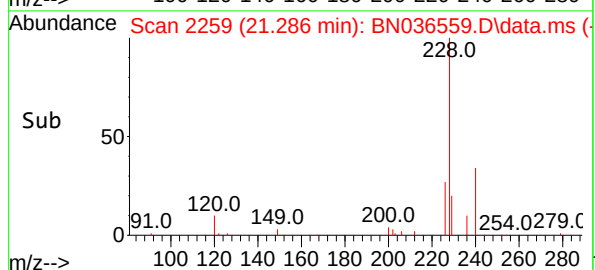
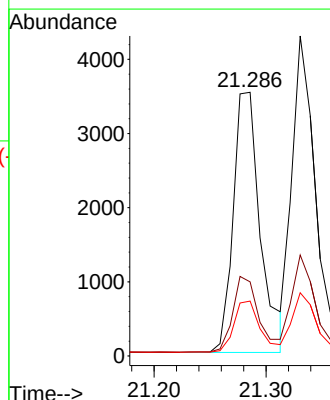
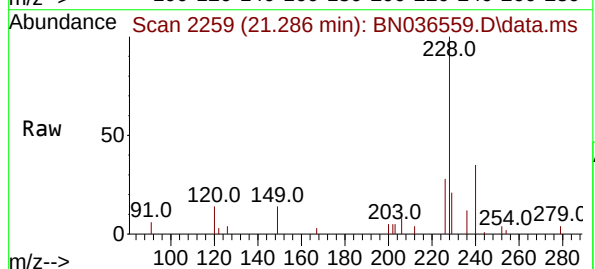
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

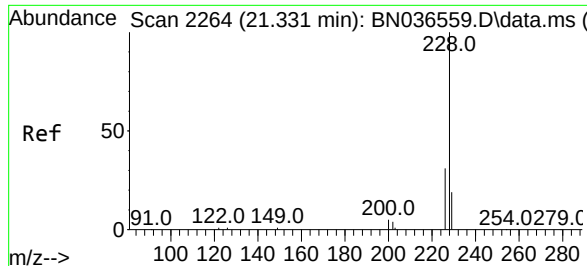
Tgt Ion:244 Resp: 4226
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.424 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

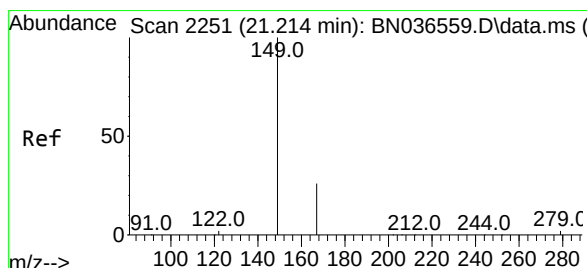
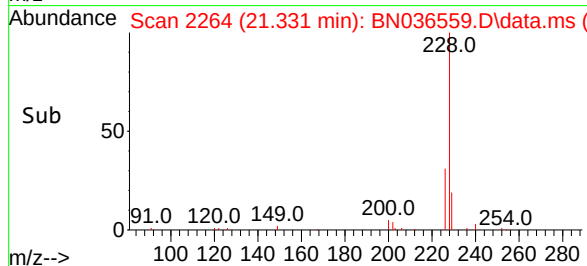
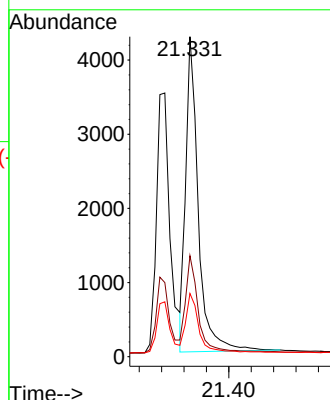
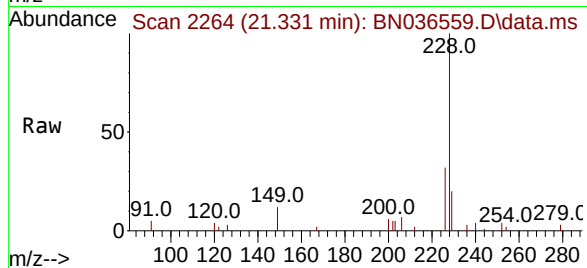
Tgt Ion:228 Resp: 6617

Ion Ratio Lower Upper

228 100

226 31.6 25.3 37.9

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

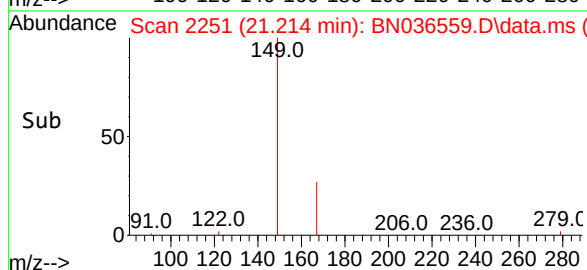
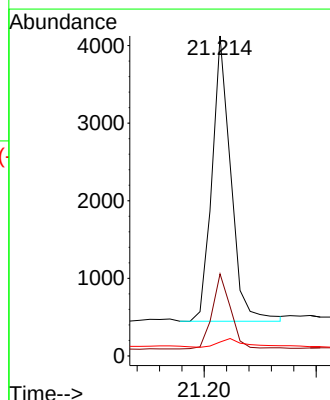
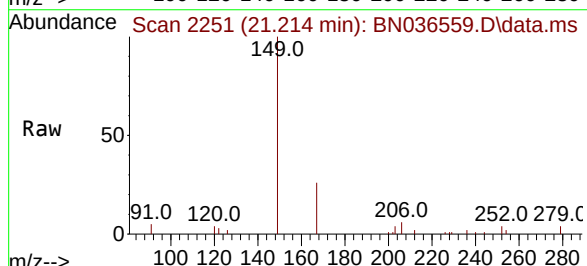
Tgt Ion:149 Resp: 4291

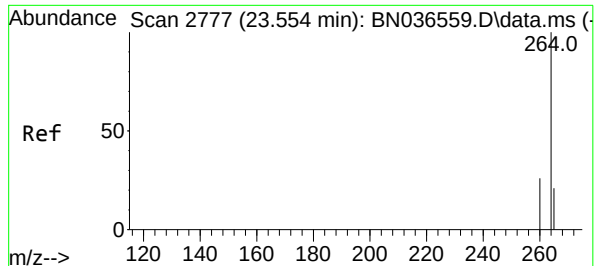
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 4.5 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

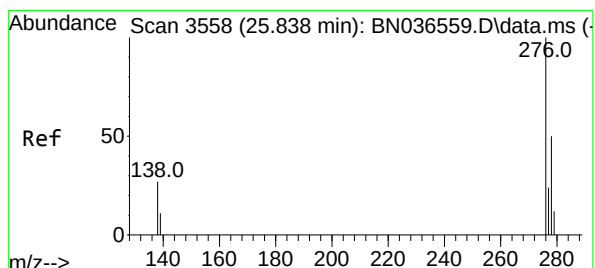
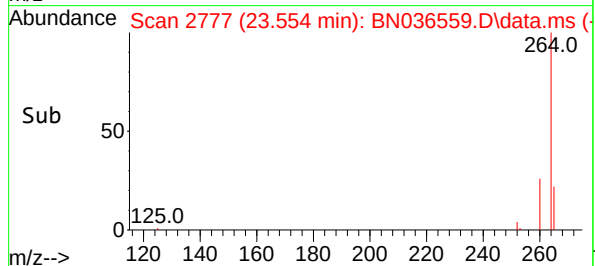
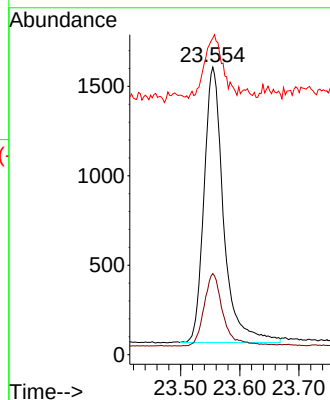
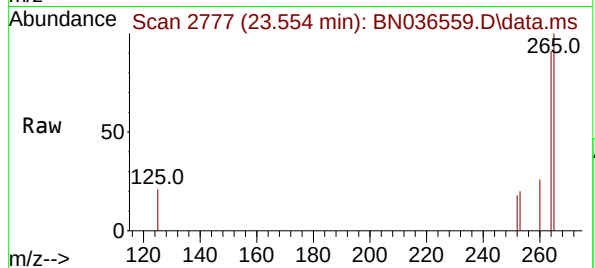
Tgt Ion:264 Resp: 3539

Ion Ratio Lower Upper

264 100

260 28.2 22.6 33.8

265 110.1 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.428 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

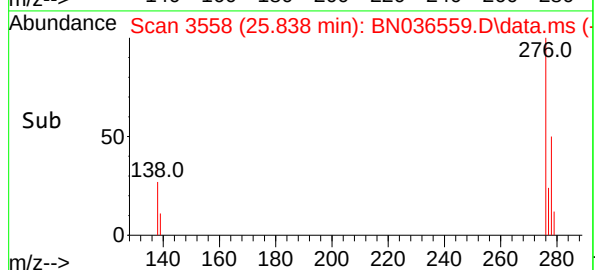
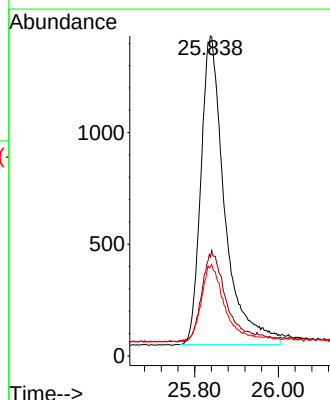
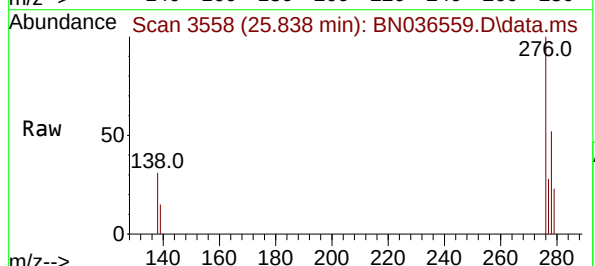
Tgt Ion:276 Resp: 5470

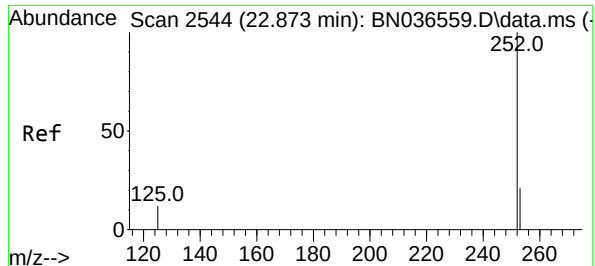
Ion Ratio Lower Upper

276 100

138 29.3 23.4 35.2

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

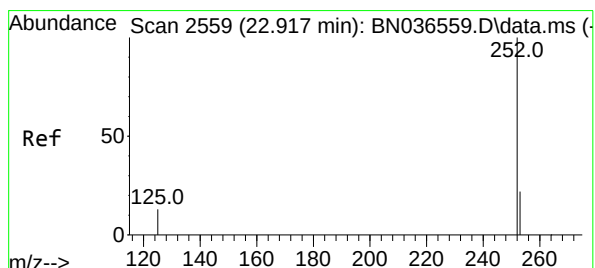
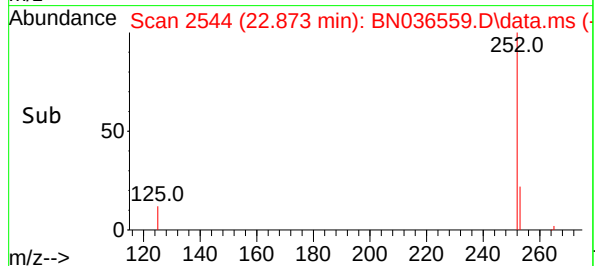
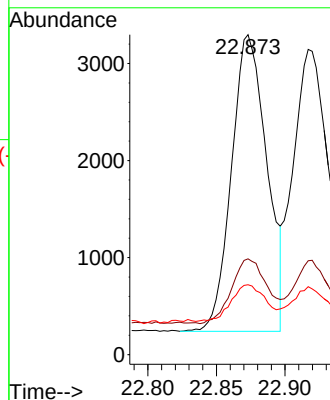
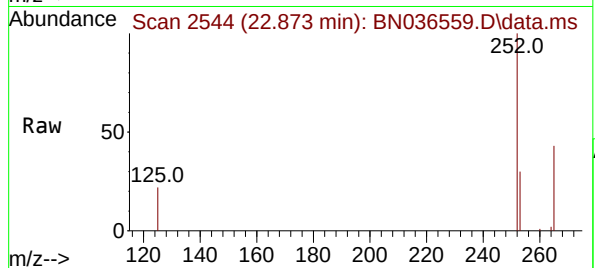
Tgt Ion:252 Resp: 5475

Ion Ratio Lower Upper

252 100

253 29.9 23.9 35.9

125 21.8 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

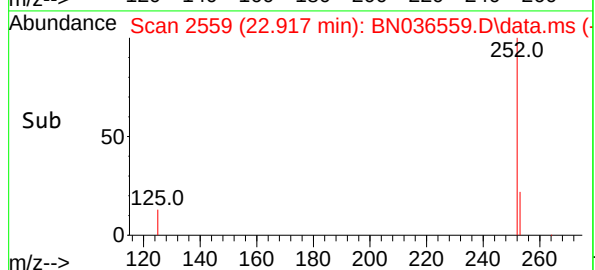
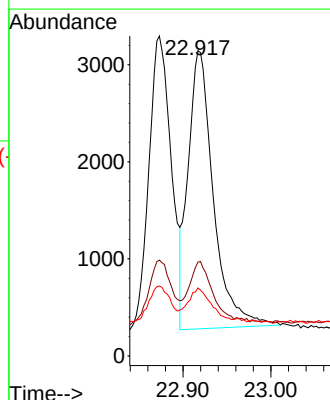
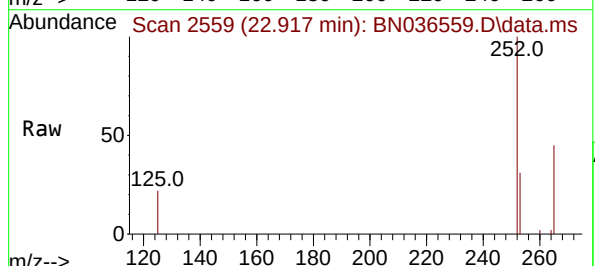
Tgt Ion:252 Resp: 5732

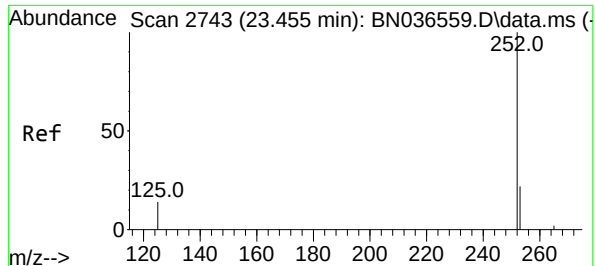
Ion Ratio Lower Upper

252 100

253 30.7 24.6 36.8

125 22.3 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

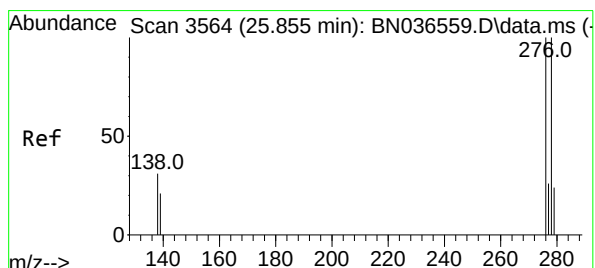
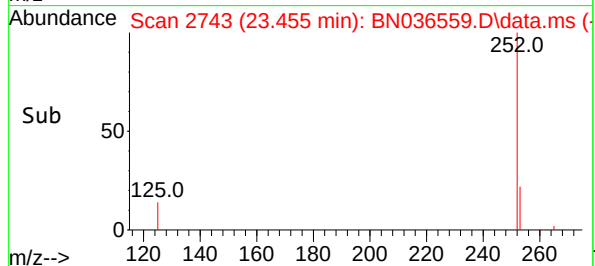
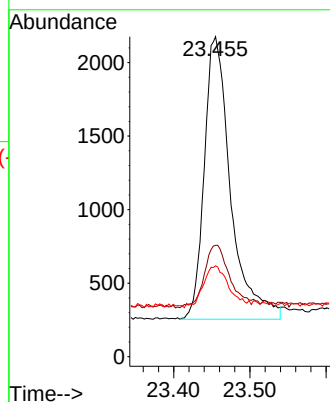
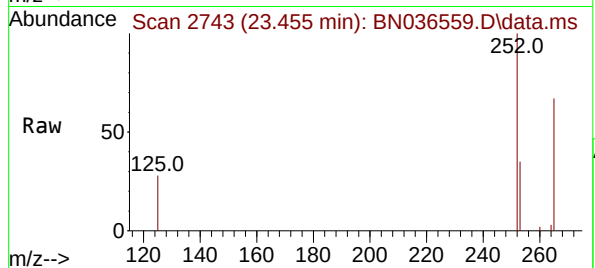
Tgt Ion:252 Resp: 4612

Ion Ratio Lower Upper

252 100

253 34.8 27.8 41.8

125 28.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

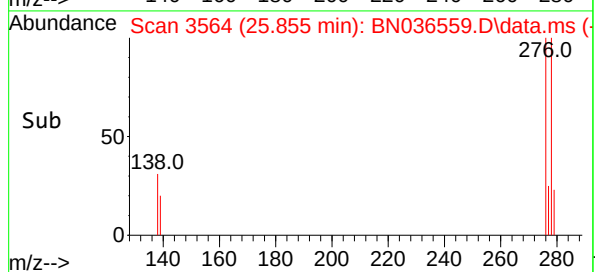
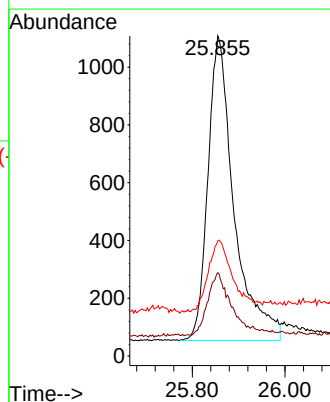
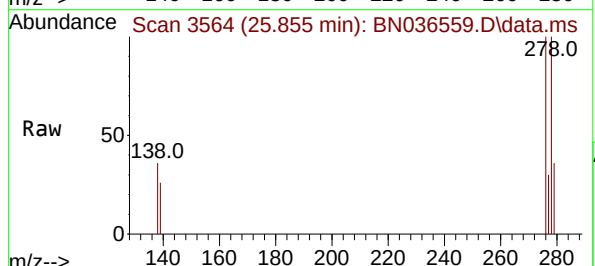
Tgt Ion:278 Resp: 4117

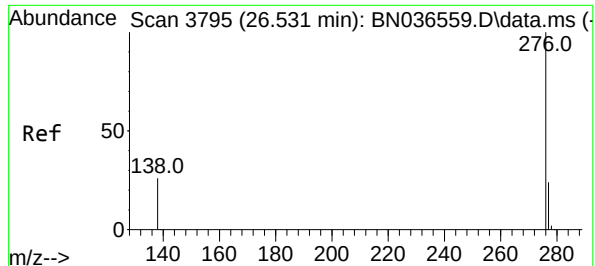
Ion Ratio Lower Upper

278 100

139 26.0 20.8 31.2

279 36.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036559.D

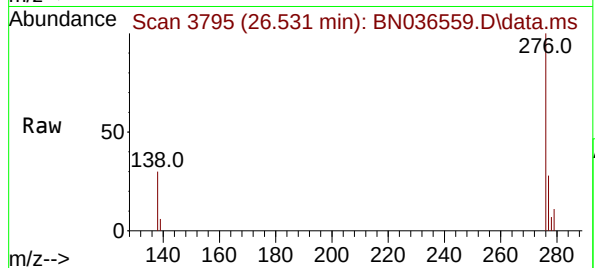
Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



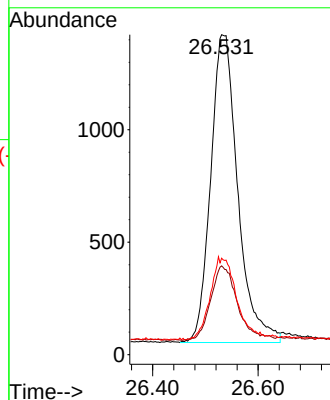
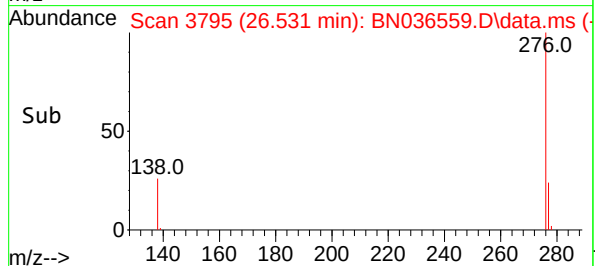
Tgt Ion:276 Resp: 4891

Ion Ratio Lower Upper

276 100

277 27.8 22.2 33.4

138 30.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036560.D
 Acq On : 10 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

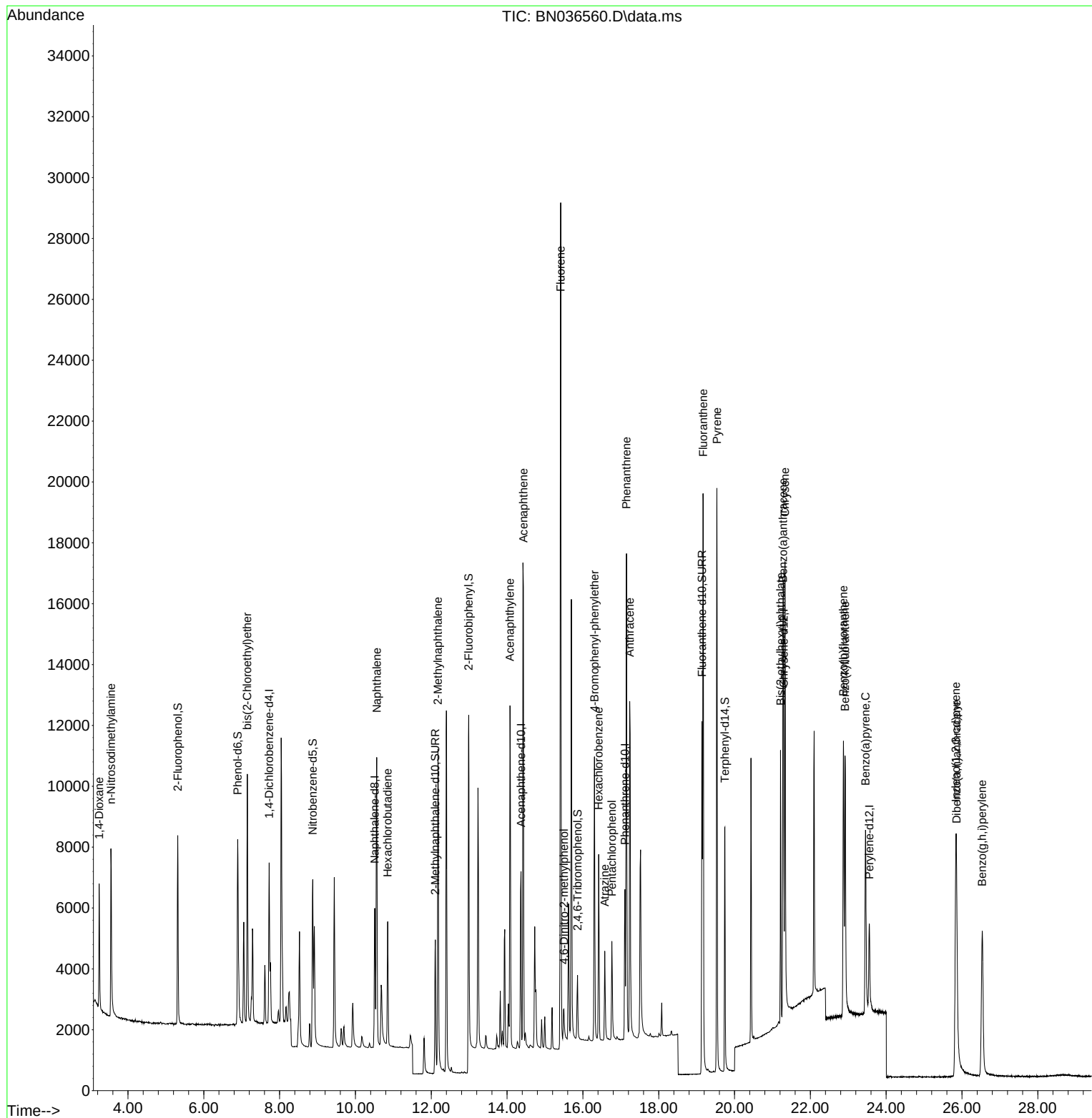
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng	0.00
35) Perylene-d12	23.554	264	4198	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	4381	0.753	ng	0.00
5) Phenol-d6	6.894	99	5324	0.741	ng	0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng	0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng	0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	2251	0.813	ng	99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng	99
9) Naphthalene	10.562	128	13078	0.756	ng	98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	# 99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng	98
16) Acenaphthylene	14.078	152	12403	0.760	ng	100
17) Acenaphthene	14.430	154	8096	0.758	ng	99
18) Fluorene	15.414	166	11120	0.770	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	# 59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng	93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng	99
23) Atrazine	16.578	200	2677	0.764	ng	94
24) Pentachlorophenol	16.764	266	1701	0.707	ng	98
25) Phenanthrene	17.149	178	15910	0.761	ng	99
26) Anthracene	17.236	178	14403	0.763	ng	99
28) Fluoranthene	19.174	202	17738	0.755	ng	99
30) Pyrene	19.536	202	17714	0.781	ng	100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng	98
33) Chrysene	21.331	228	13974	0.793	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng	99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	# 91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	# 90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	# 87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng	91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng	96

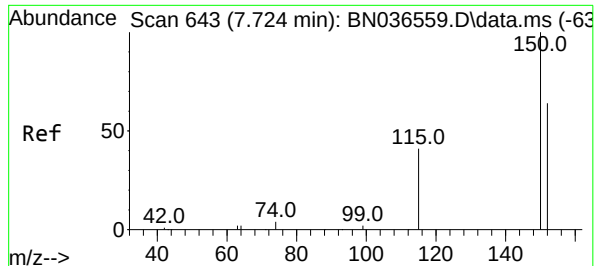
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

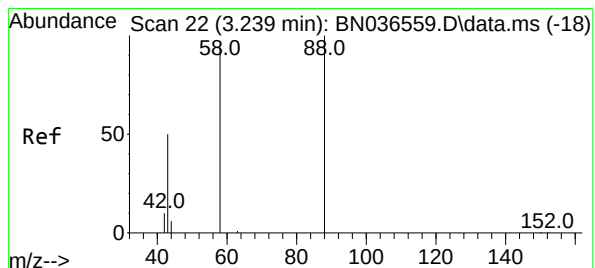
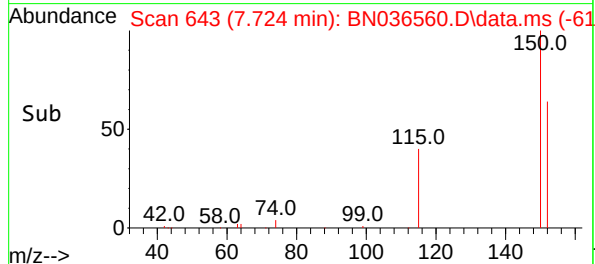
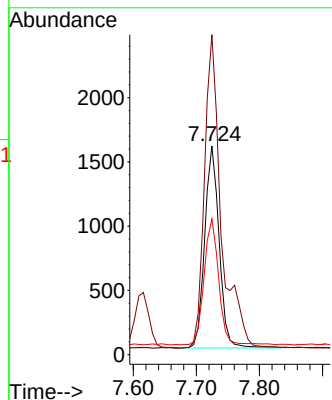
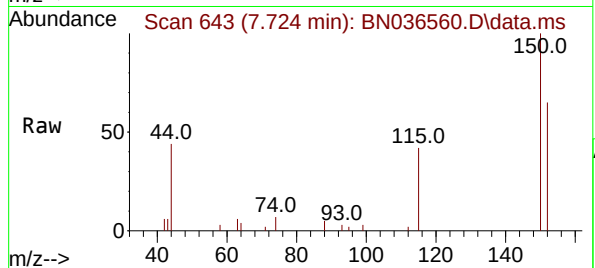




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

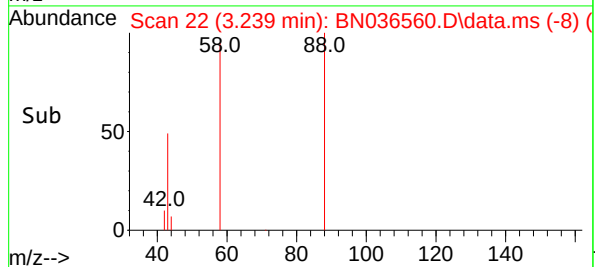
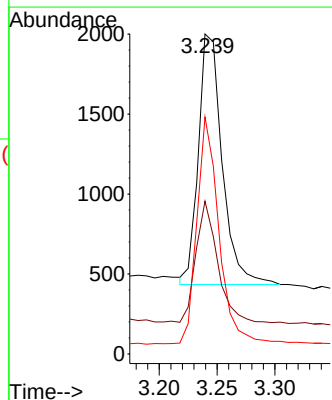
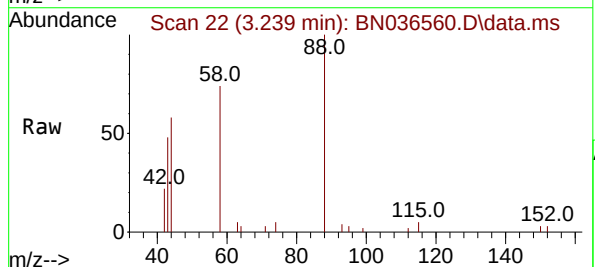
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

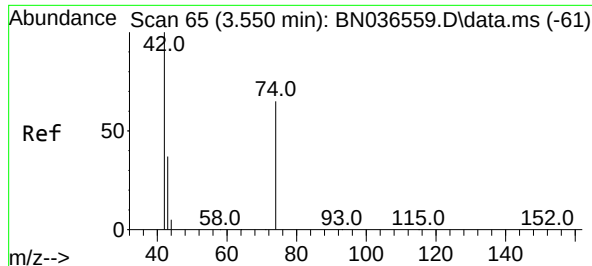
Tgt Ion:152 Resp: 2495
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251
Ion Ratio Lower Upper
88 100
43 45.6 37.8 56.8
58 84.5 67.4 101.2

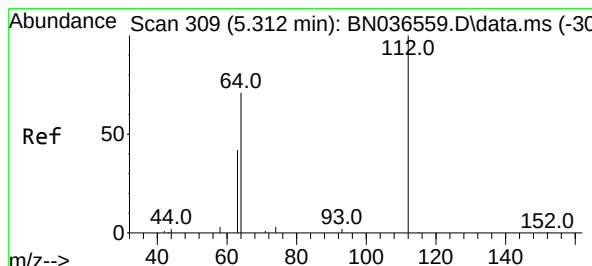
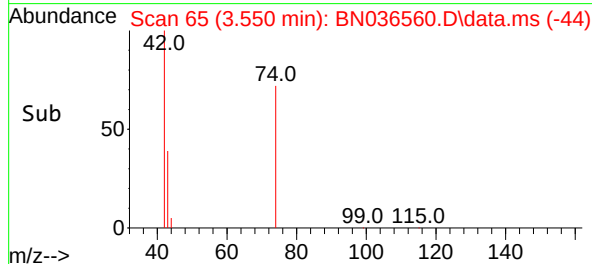
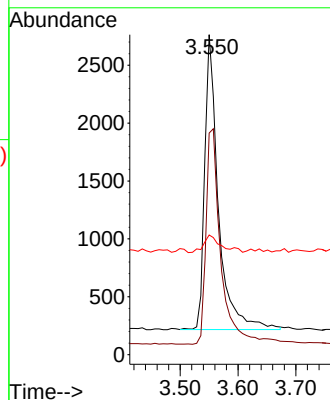
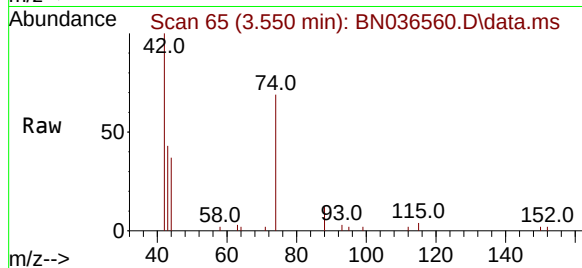




#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

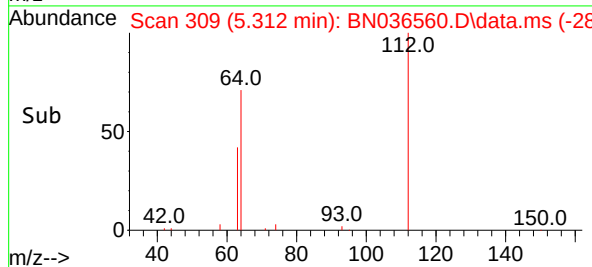
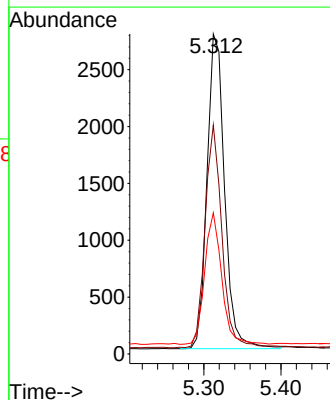
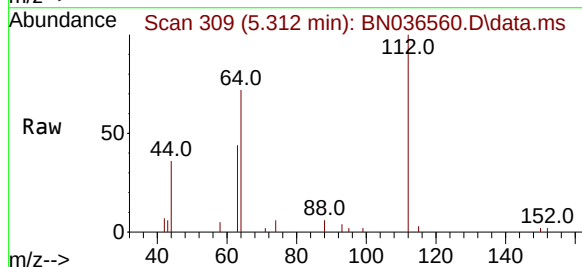
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

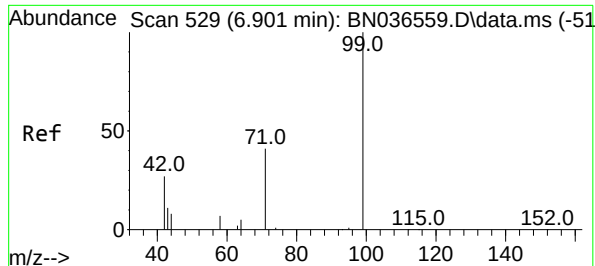
Tgt Ion: 42 Resp: 4197
Ion Ratio Lower Upper
42 100
74 79.3 60.6 90.8
44 7.4 6.3 9.5



#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 112 Resp: 4381
Ion Ratio Lower Upper
112 100
64 68.8 53.1 79.7
63 40.4 31.8 47.8

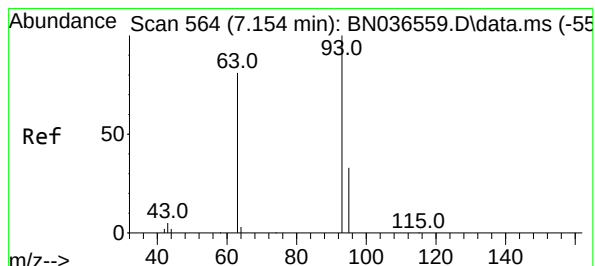
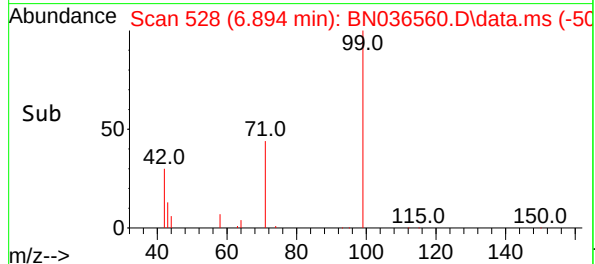
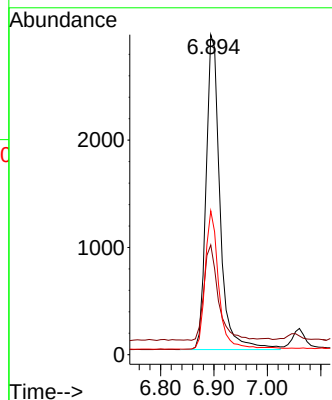
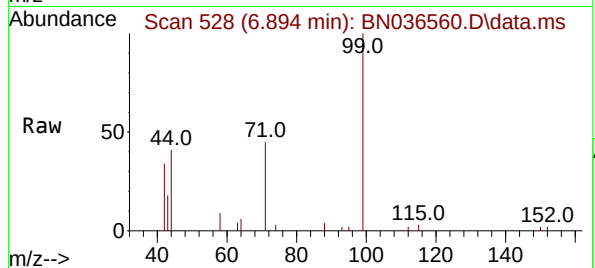




#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

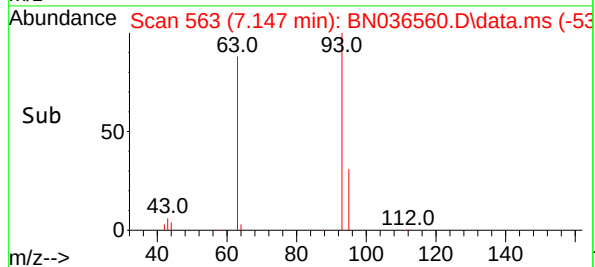
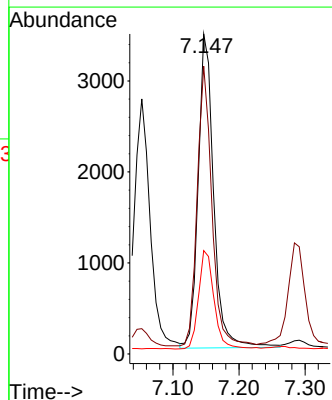
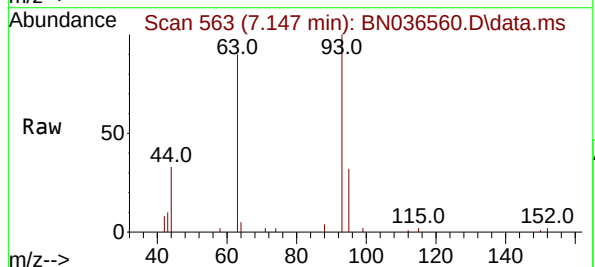
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

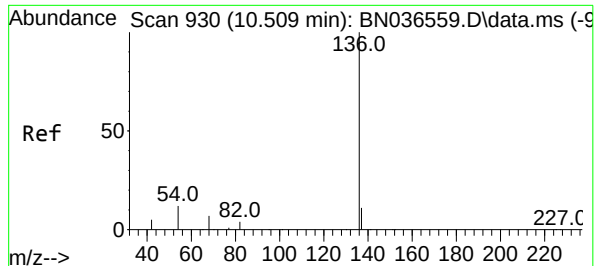
Tgt Ion: 99 Resp: 5324
Ion Ratio Lower Upper
99 100
42 31.3 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632
Ion Ratio Lower Upper
93 100
63 84.0 67.7 101.5
95 31.6 25.6 38.4

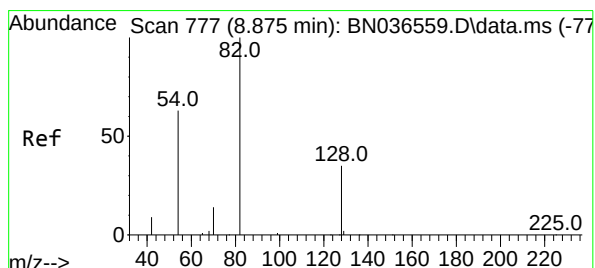
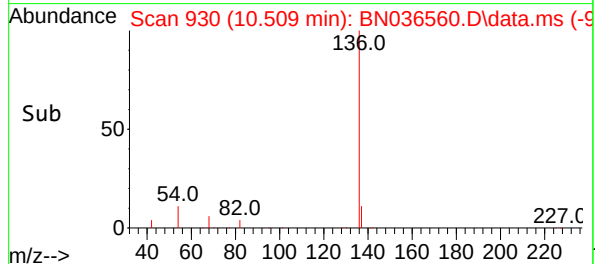
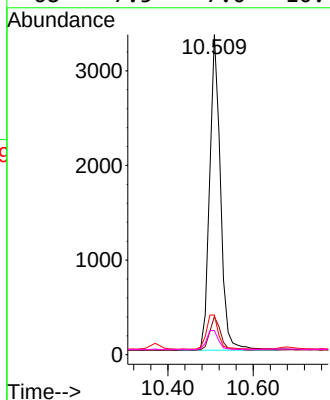
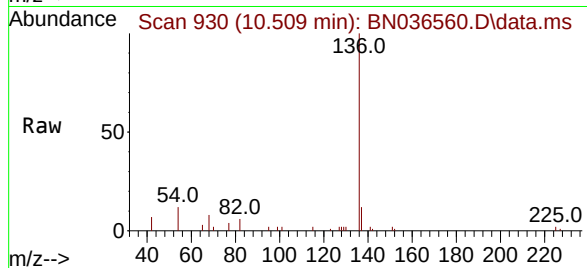




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

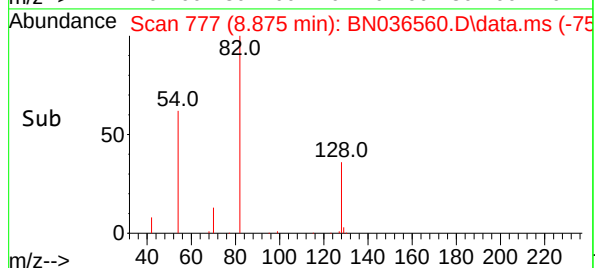
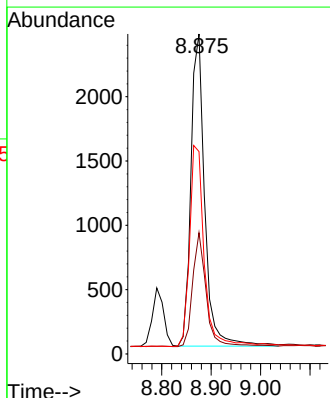
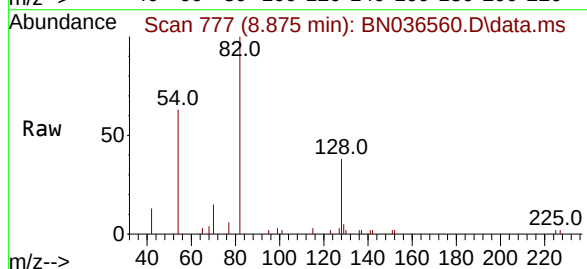
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

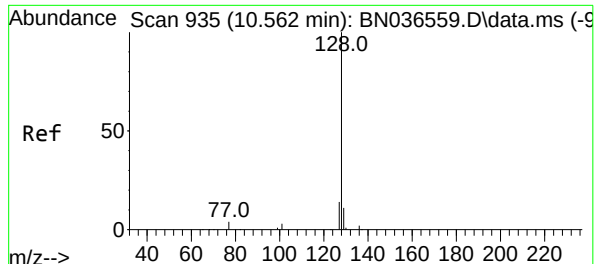
Tgt Ion:	136	Resp:	5884
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:	82	Resp:	4717
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4





#9

Naphthalene

Concen: 0.756 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

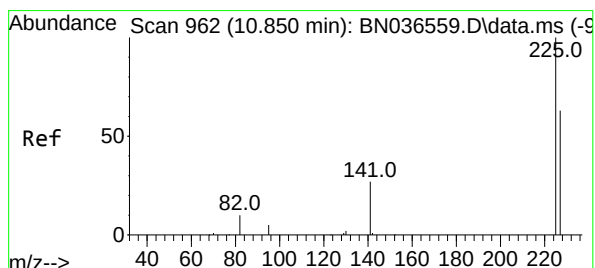
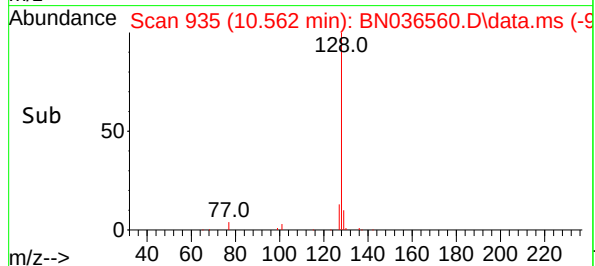
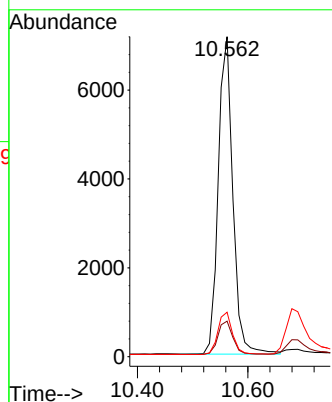
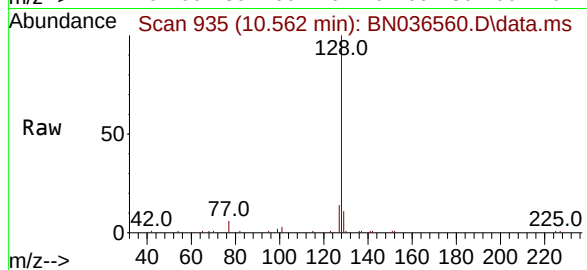
Tgt Ion:128 Resp: 13078

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.9 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.772 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

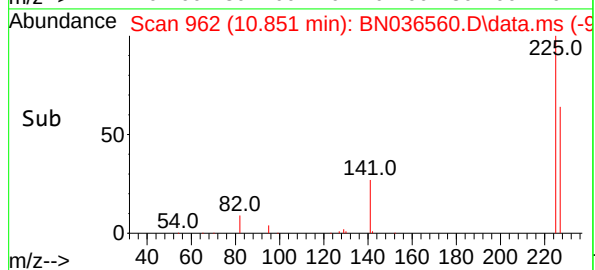
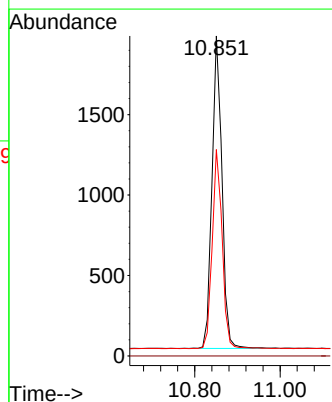
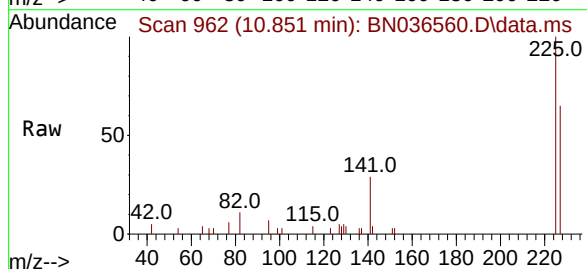
Tgt Ion:225 Resp: 3147

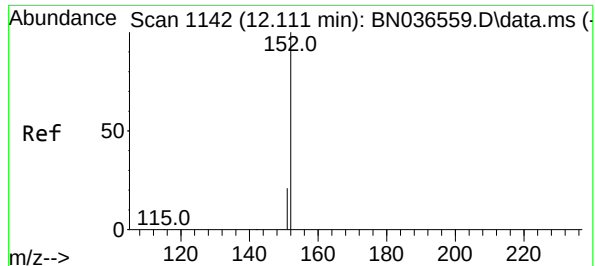
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.8 77.8

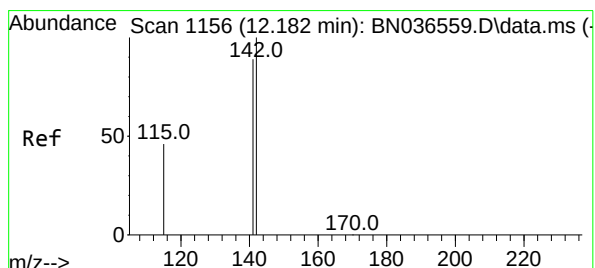
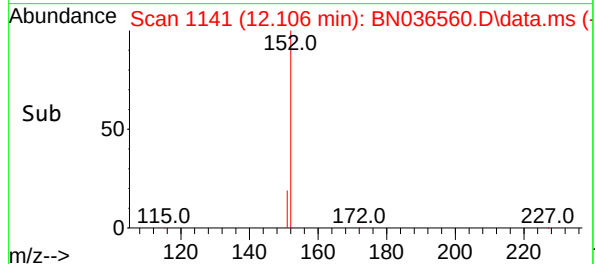
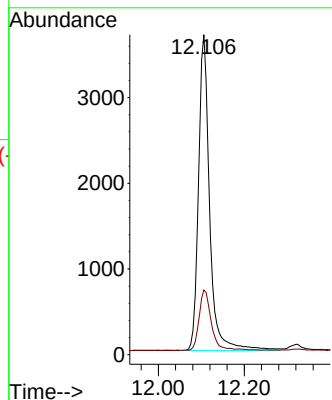
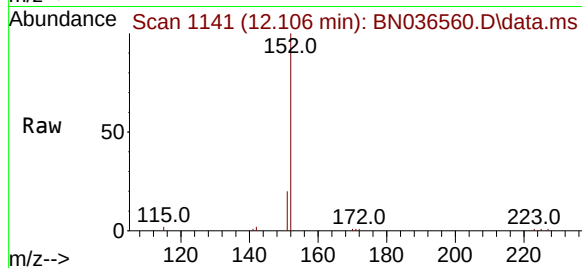




#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

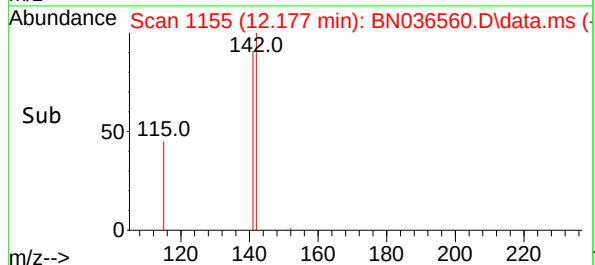
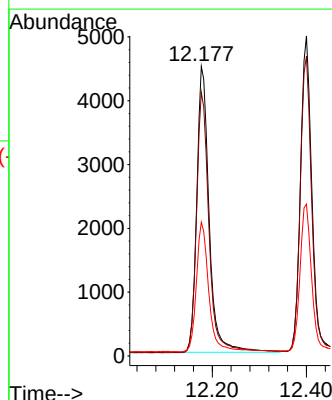
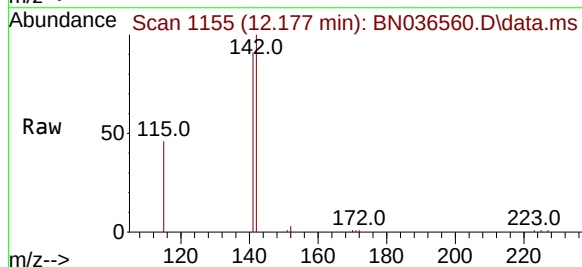
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

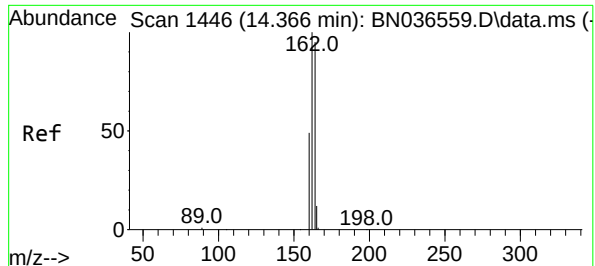
Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 46.2 38.3 57.5

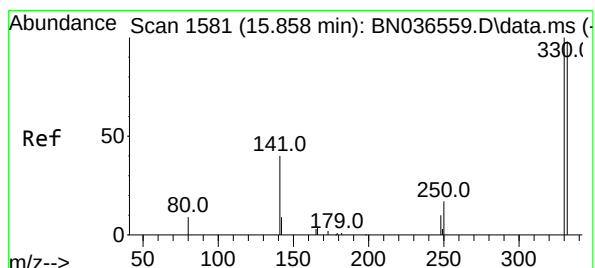
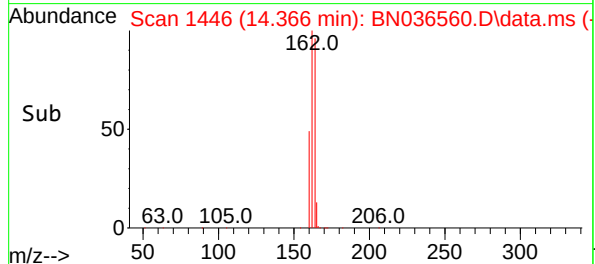
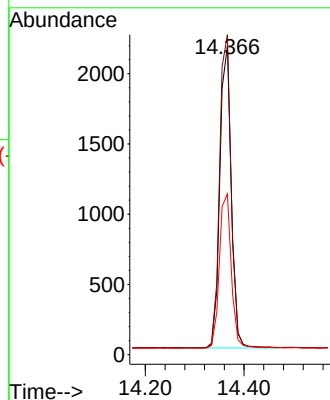
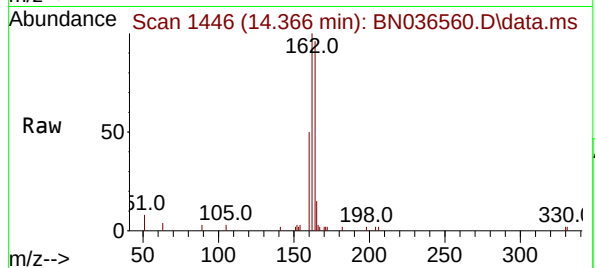




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

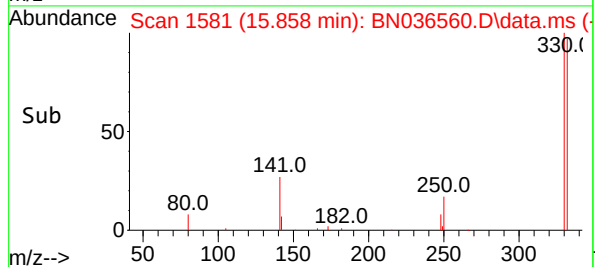
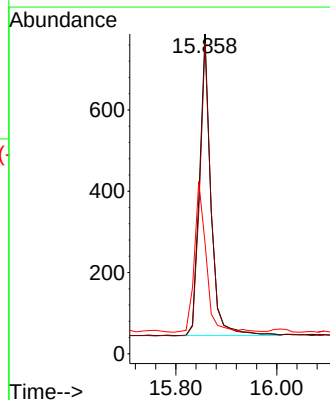
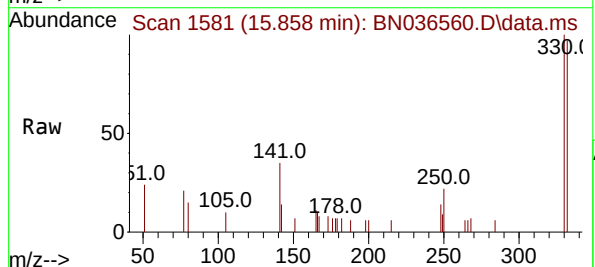
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

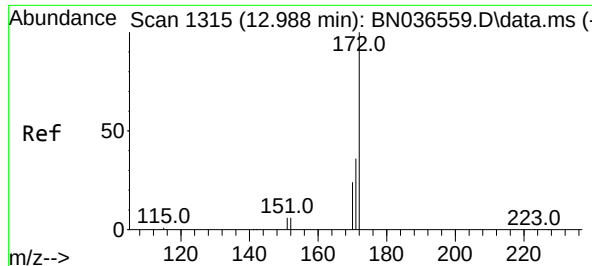
Tgt Ion	164	Resp	3456
Ion Ratio	100		
Lower			
Upper			



#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion	330	Resp	1166
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			





#15

2-Fluorobiphenyl

Concen: 0.808 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

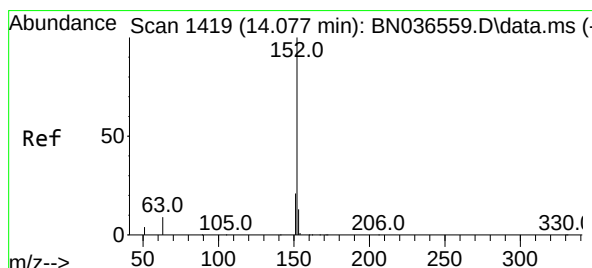
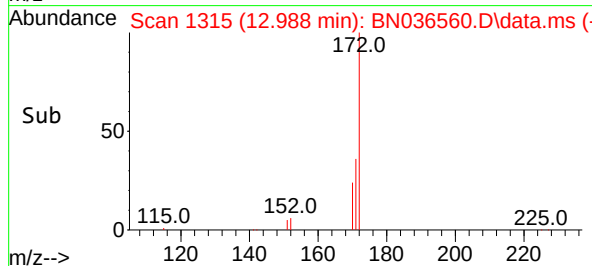
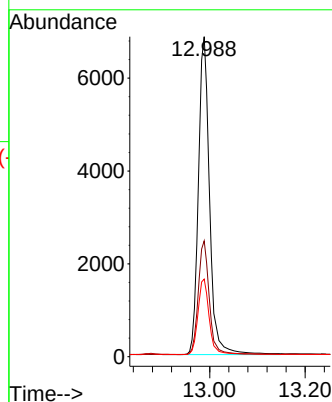
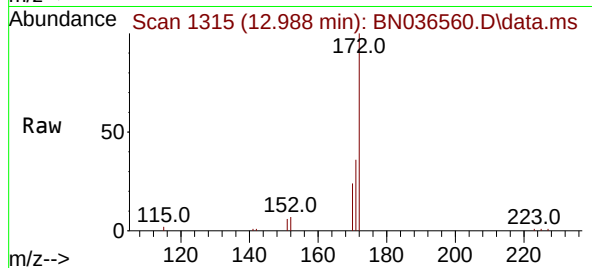
Tgt Ion:172 Resp: 16243

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.760 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

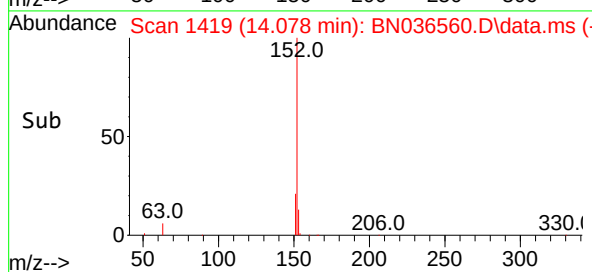
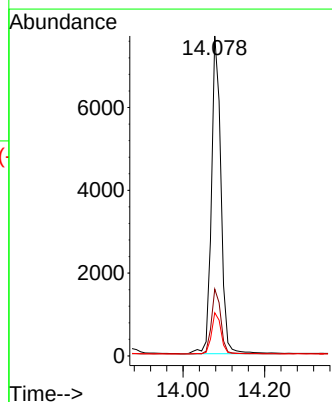
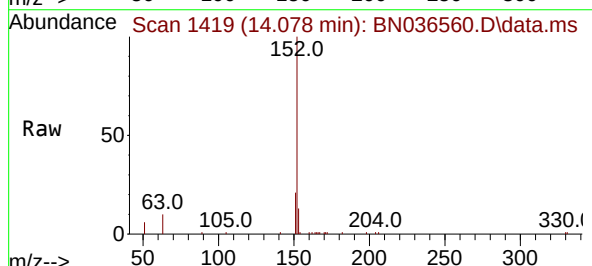
Tgt Ion:152 Resp: 12403

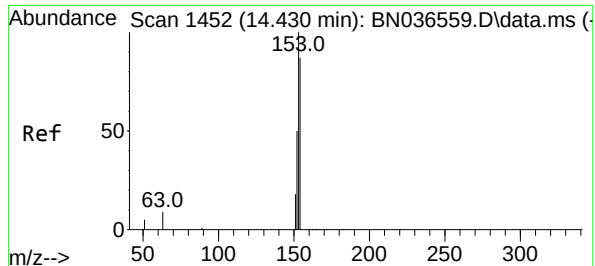
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 0.758 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

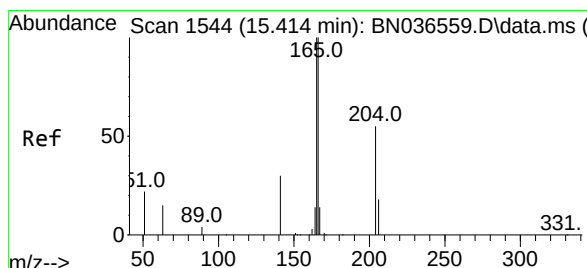
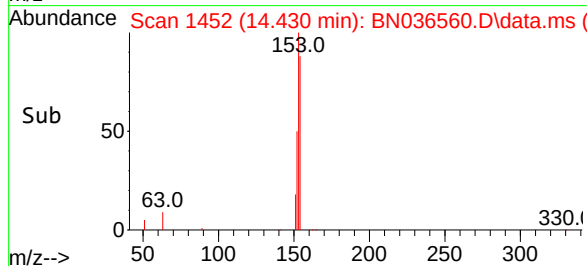
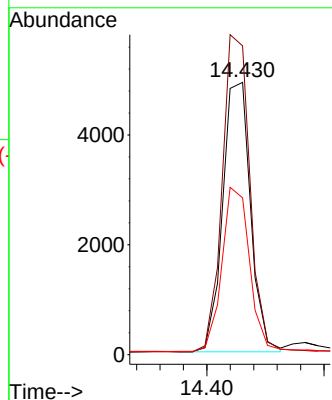
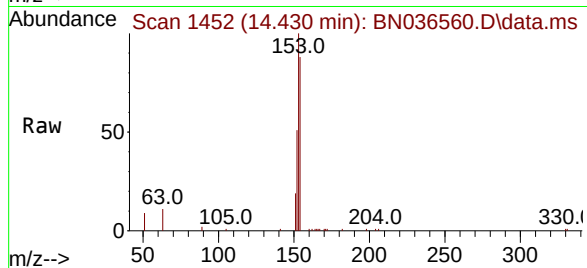
Tgt Ion:154 Resp: 8096

Ion Ratio Lower Upper

154 100

153 117.8 94.1 141.1

152 60.9 49.8 74.6



#18

Fluorene

Concen: 0.770 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

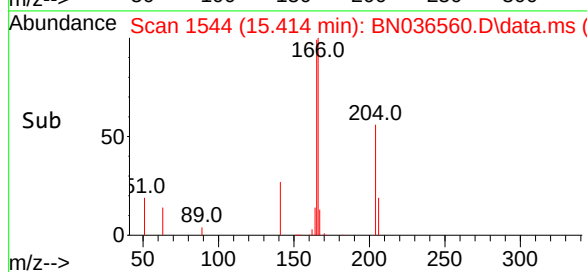
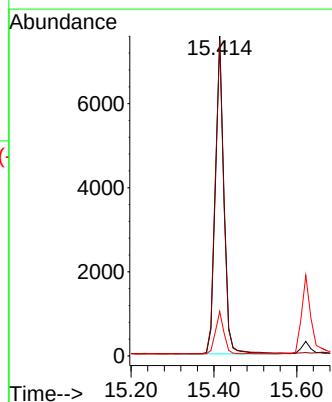
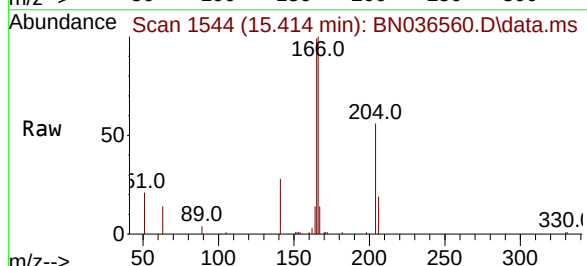
Tgt Ion:166 Resp: 11120

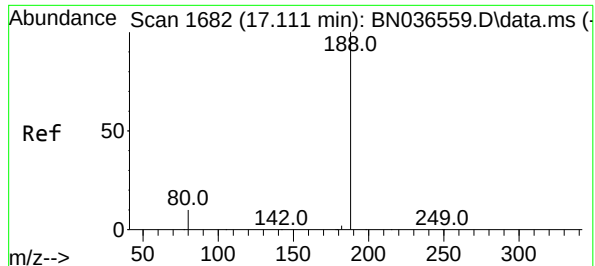
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.8

167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

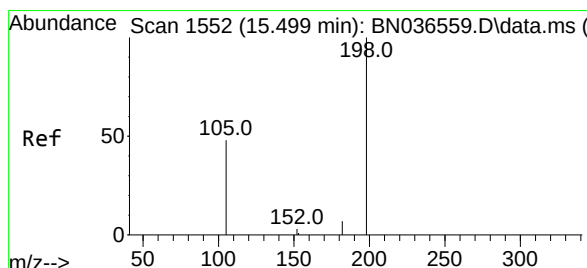
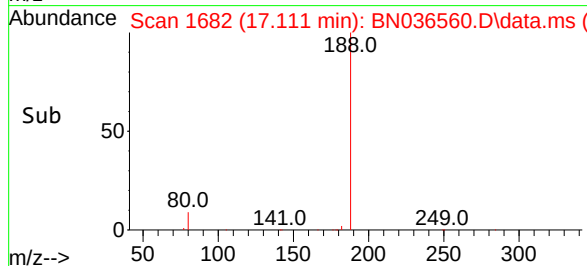
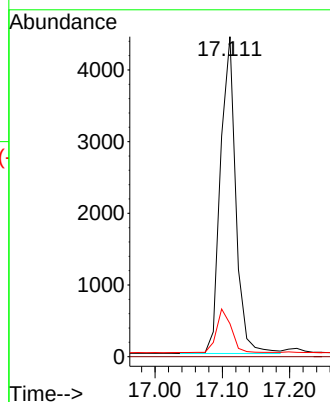
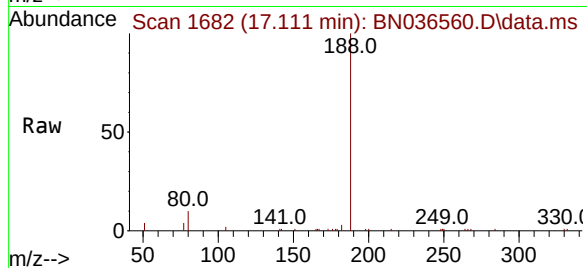
Tgt Ion:188 Resp: 6971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.724 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

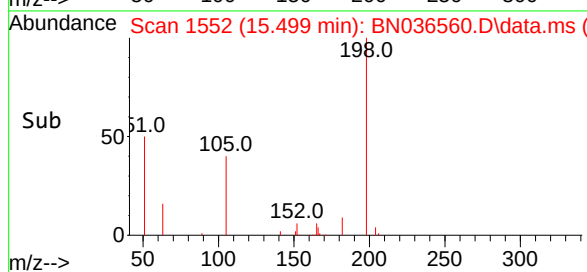
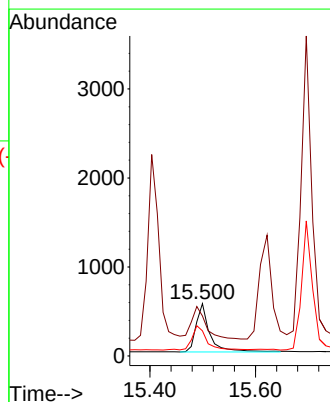
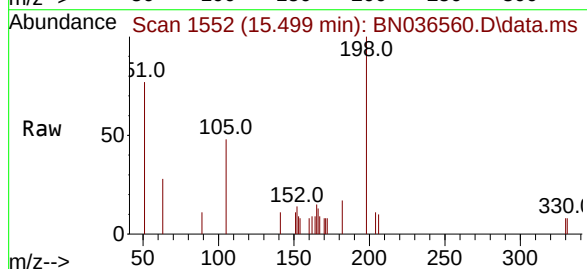
Tgt Ion:198 Resp: 1039

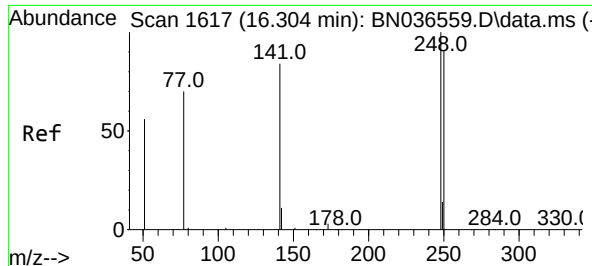
Ion Ratio Lower Upper

198 100

51 76.5 107.9 161.9#

105 48.1 56.2 84.2#

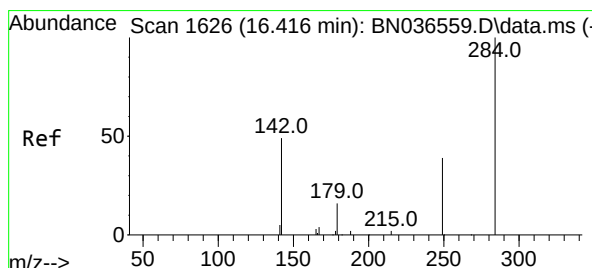
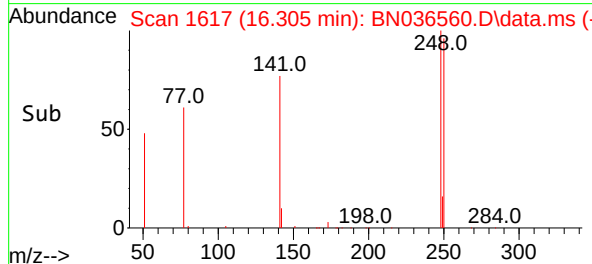
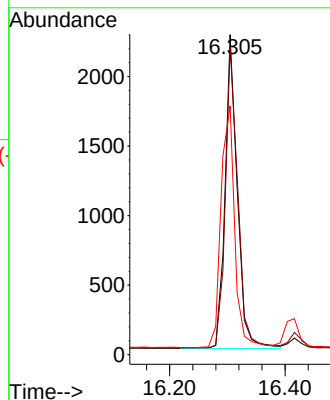
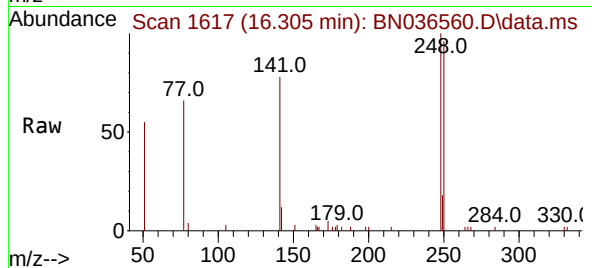




#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

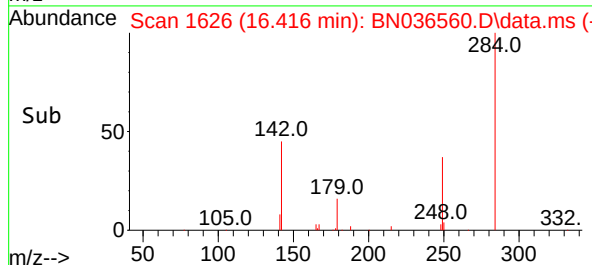
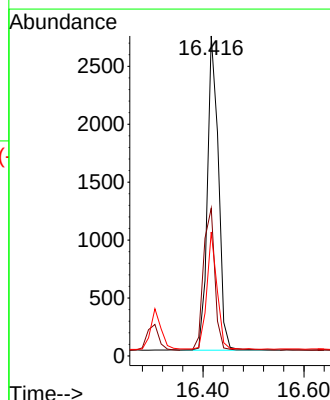
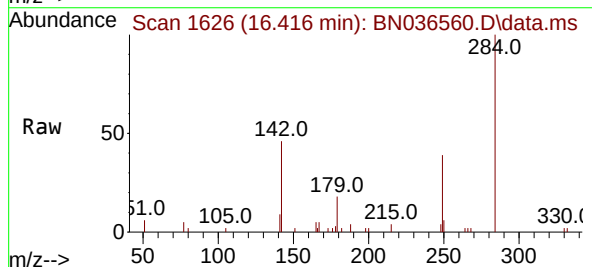
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

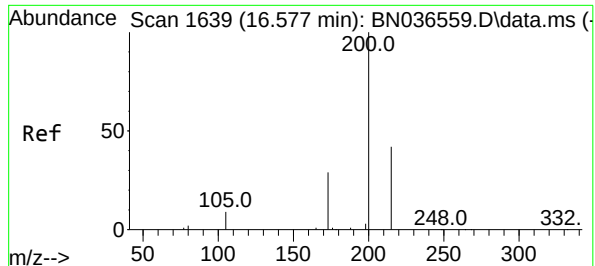
Tgt Ion:248 Resp: 3324
Ion Ratio Lower Upper
248 100
250 96.2 73.0 109.6
141 77.7 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115
Ion Ratio Lower Upper
284 100
142 47.2 37.0 55.4
249 34.7 28.1 42.1

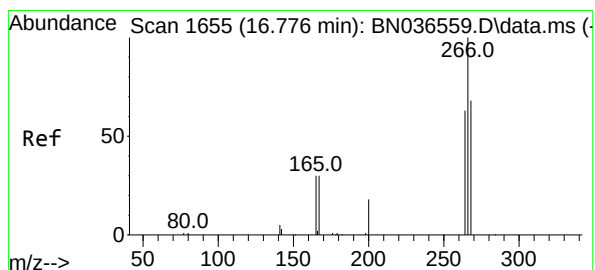
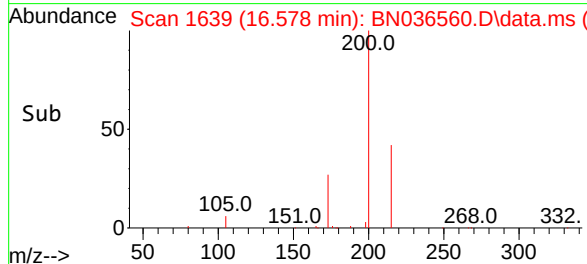
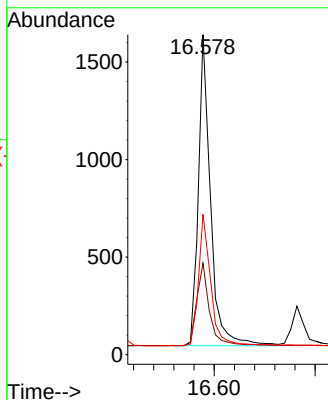
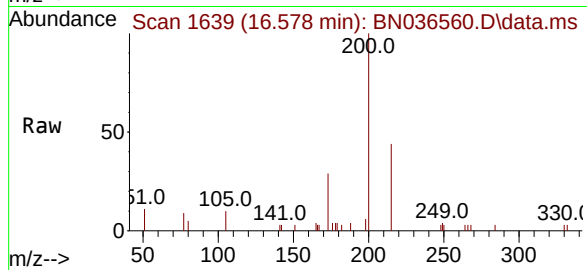




#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

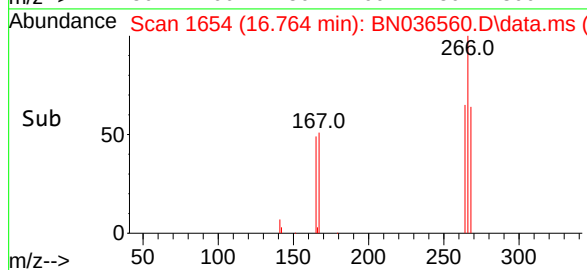
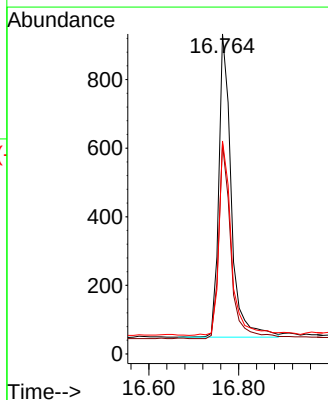
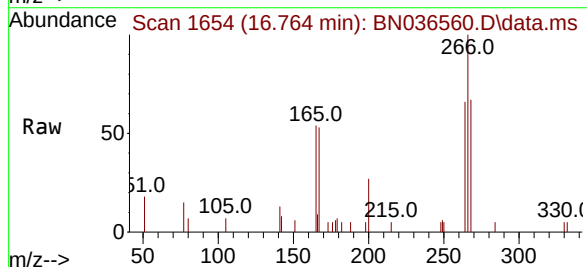
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

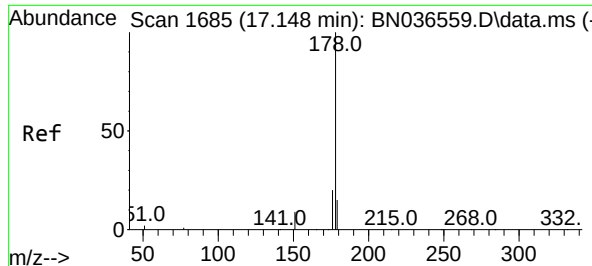
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.6	27.3	40.9
215	43.8	36.8	55.2



#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	65.1	50.9	76.3





#25

Phenanthrene

Concen: 0.761 ng

RT: 17.149 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

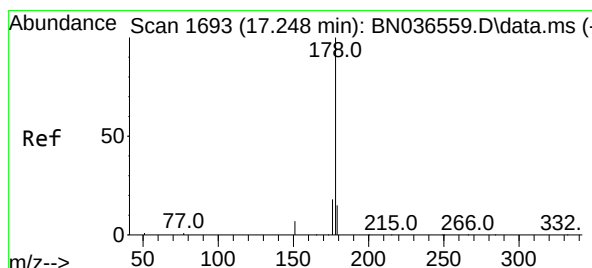
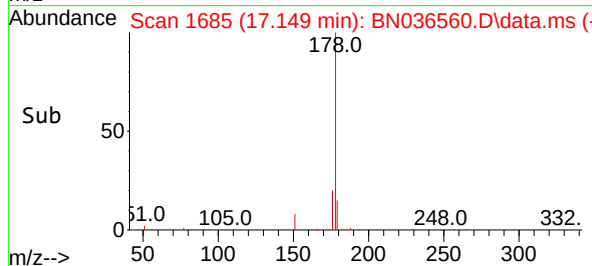
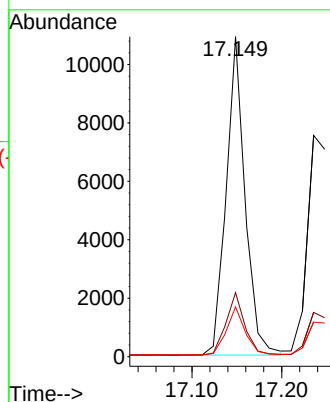
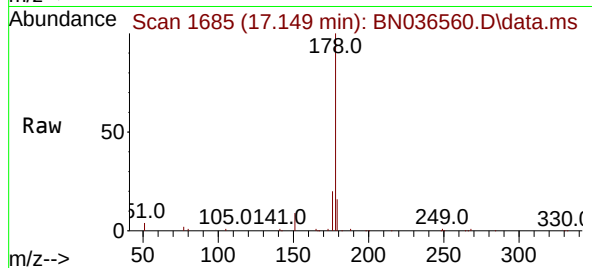
Tgt Ion:178 Resp: 15910

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 0.763 ng

RT: 17.236 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

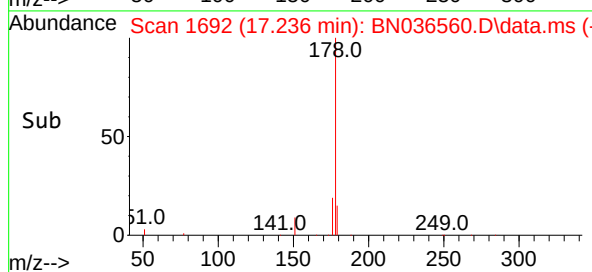
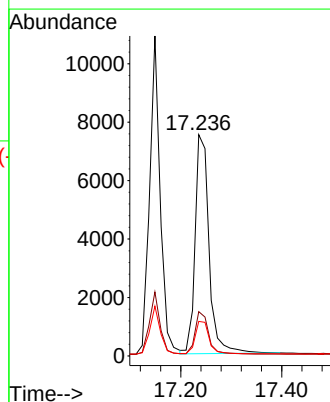
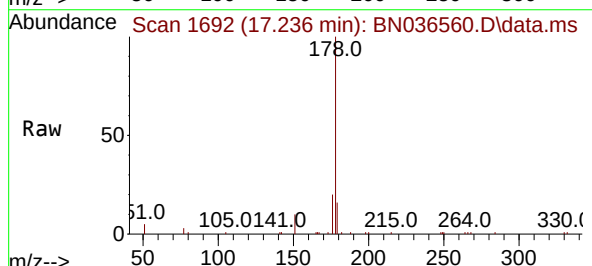
Tgt Ion:178 Resp: 14403

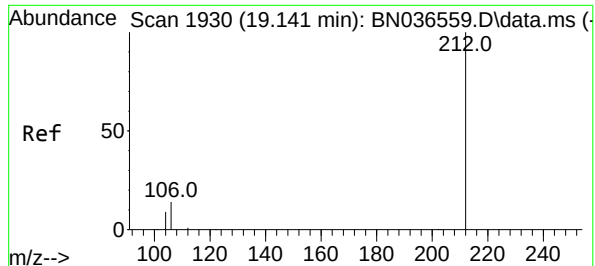
Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.746 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

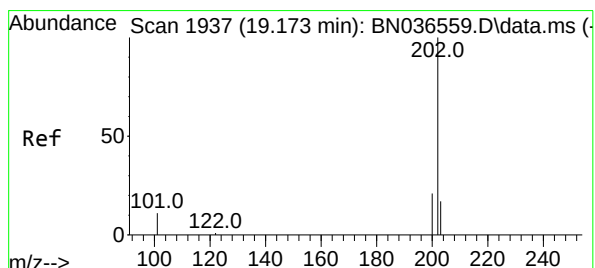
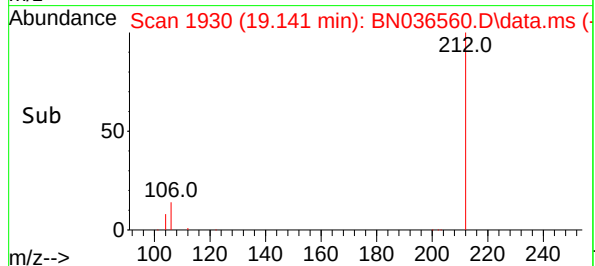
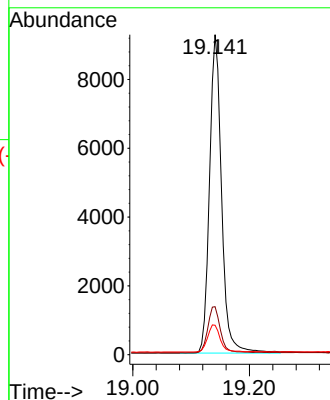
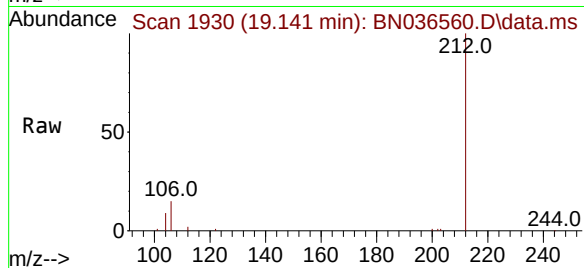
Tgt Ion:212 Resp: 13330

Ion Ratio Lower Upper

212 100

106 15.2 11.8 17.6

104 8.9 7.3 10.9



#28

Fluoranthene

Concen: 0.755 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

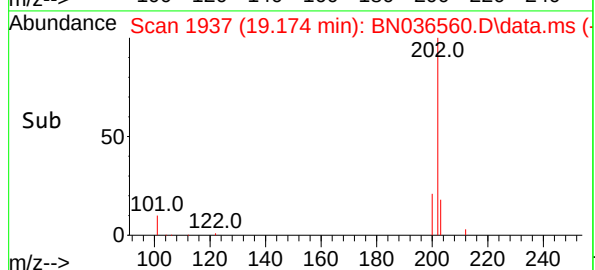
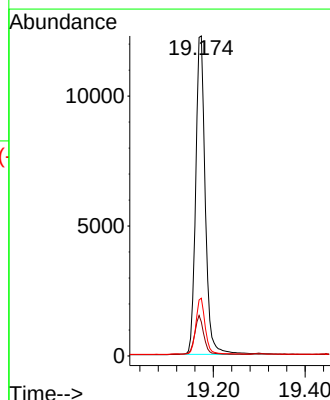
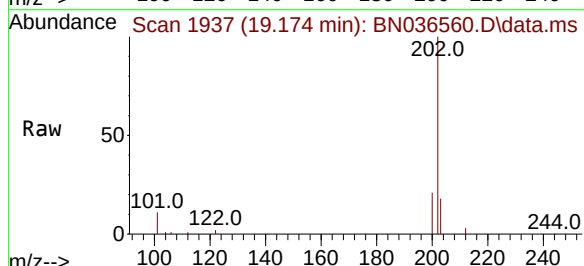
Tgt Ion:202 Resp: 17738

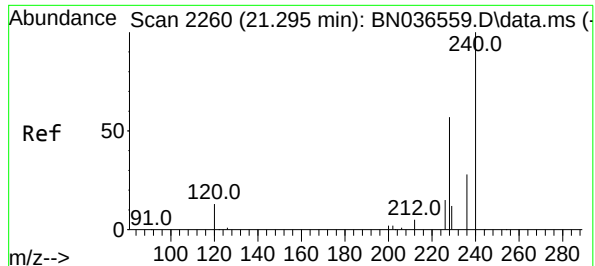
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

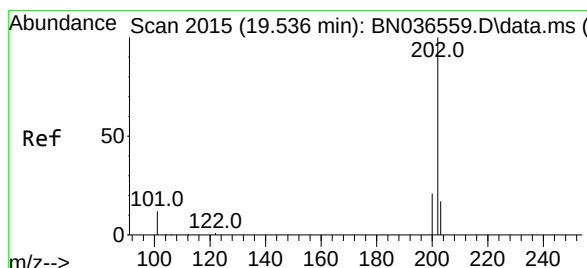
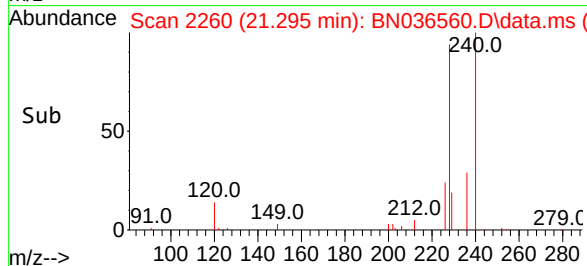
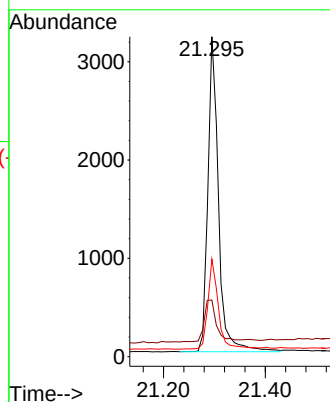
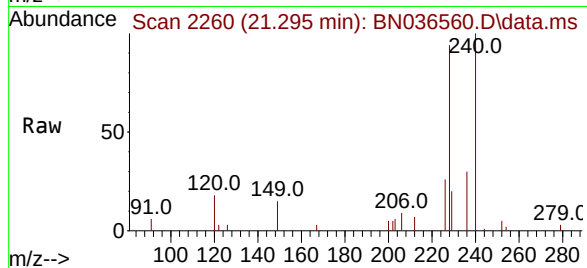
Tgt Ion:240 Resp: 4636

Ion Ratio Lower Upper

240 100

120 17.7 14.6 22.0

236 30.5 24.1 36.1



#30

Pyrene

Concen: 0.781 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

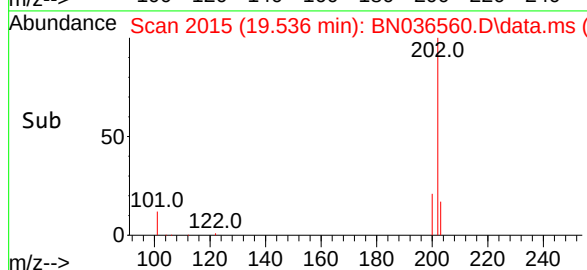
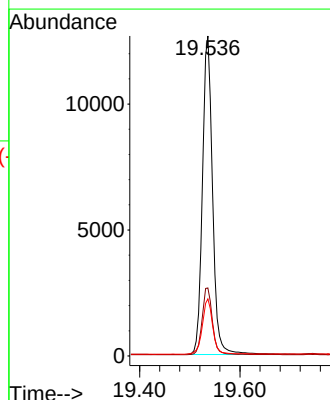
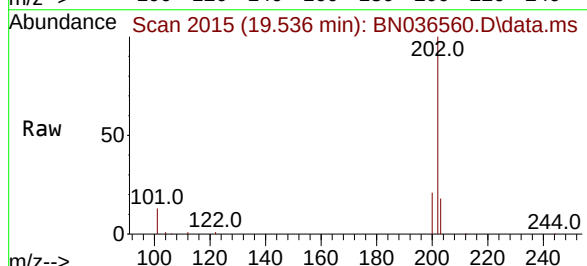
Tgt Ion:202 Resp: 17714

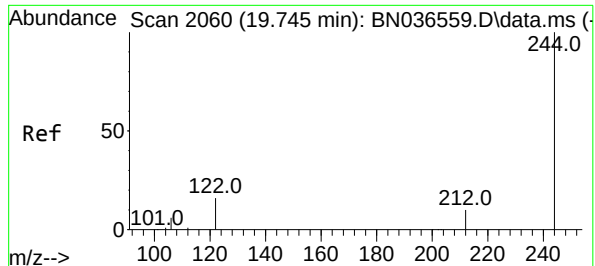
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.5 14.1 21.1





#31

Terphenyl-d14

Concen: 0.772 ng

RT: 19.745 min Scan# 2060

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

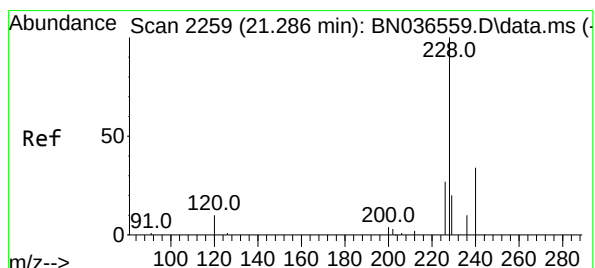
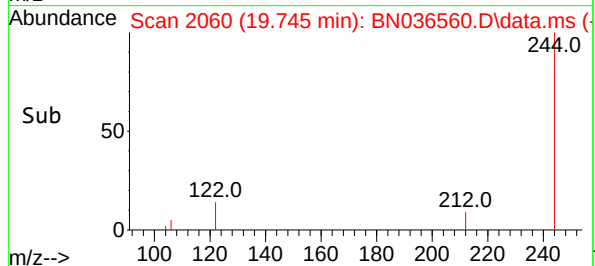
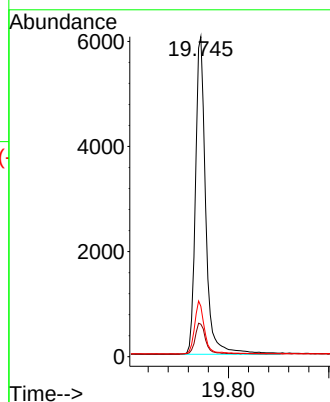
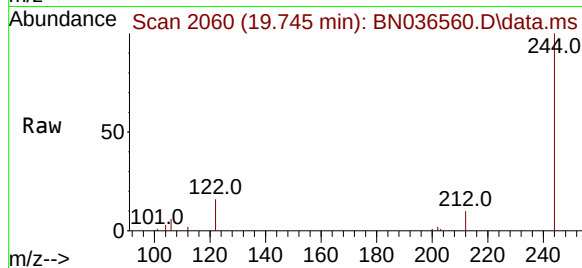
Tgt Ion:244 Resp: 8571

Ion Ratio Lower Upper

244 100

212 10.1 9.6 14.4

122 15.8 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.750 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.009 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

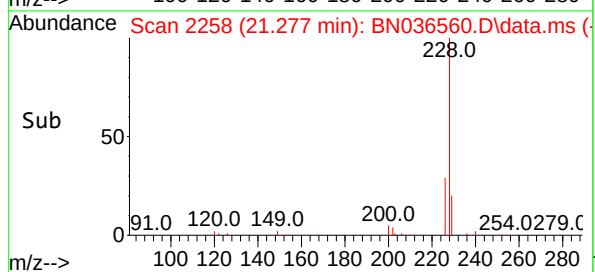
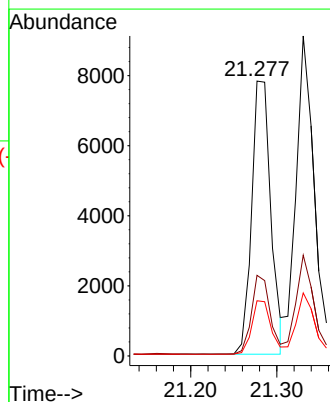
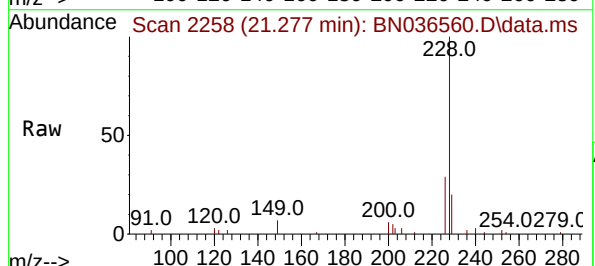
Tgt Ion:228 Resp: 12089

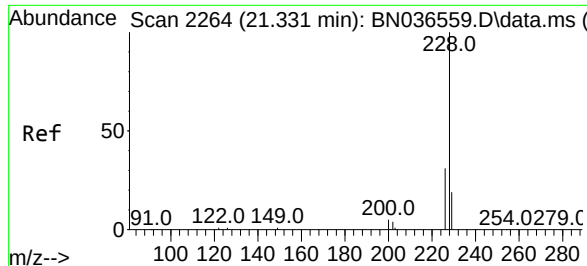
Ion Ratio Lower Upper

228 100

226 29.3 22.5 33.7

229 20.1 16.6 25.0





#33

Chrysene

Concen: 0.793 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

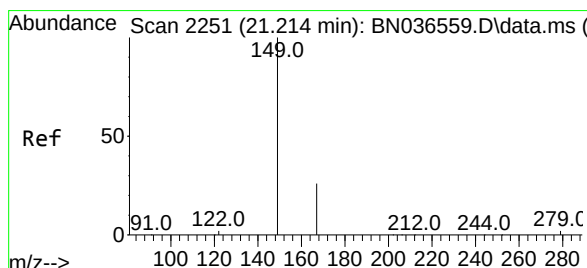
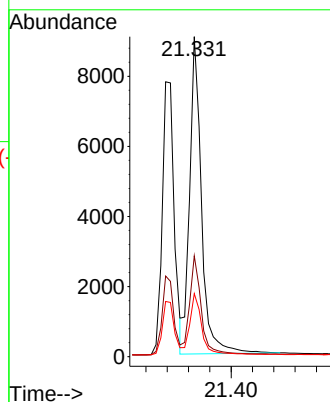
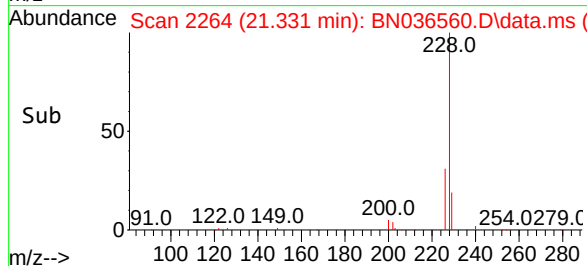
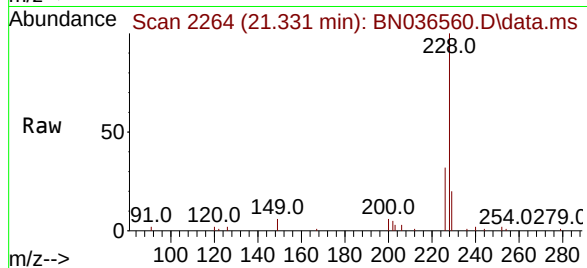
Tgt Ion:228 Resp: 13974

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.699 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

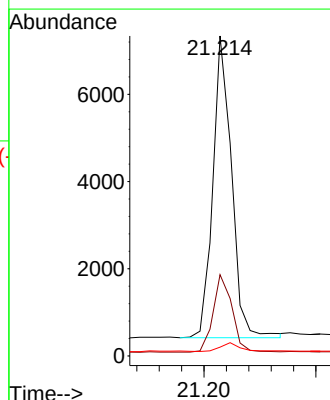
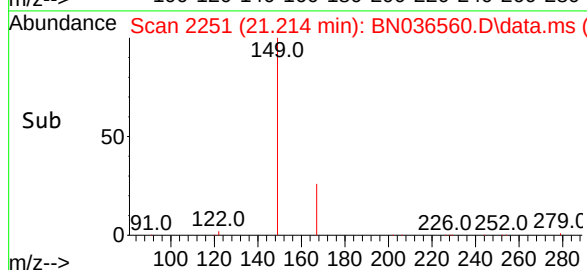
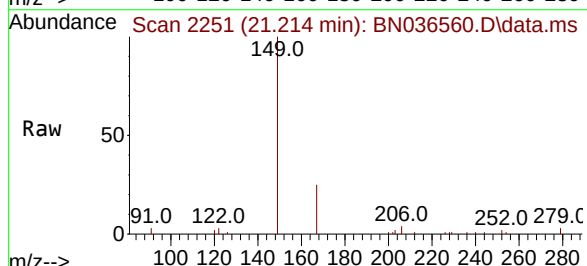
Tgt Ion:149 Resp: 8021

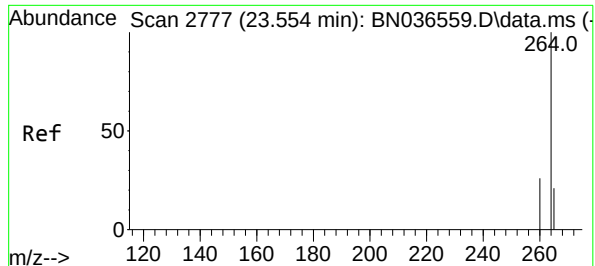
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.2 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

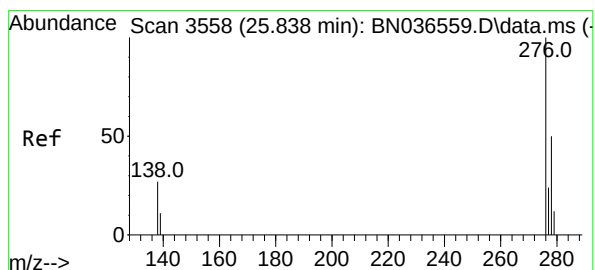
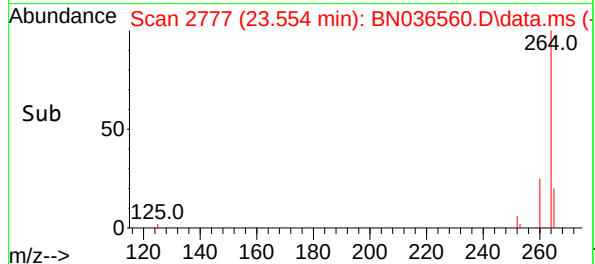
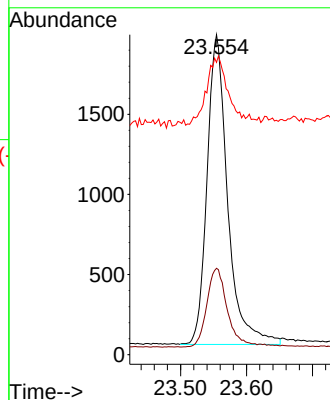
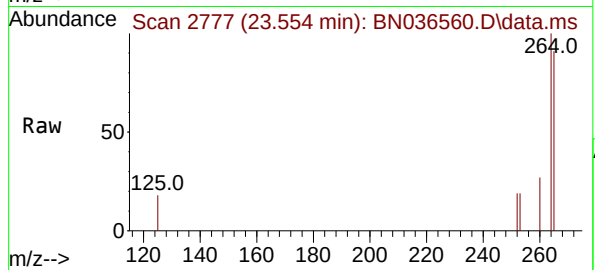
Tgt Ion:264 Resp: 4198

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 91.3 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.778 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

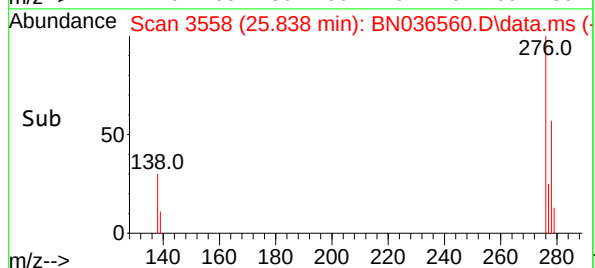
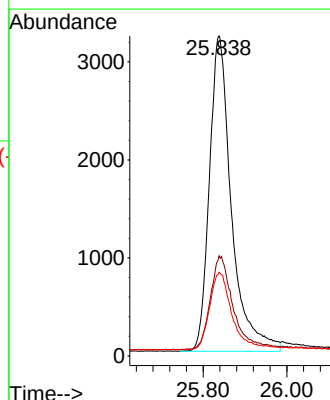
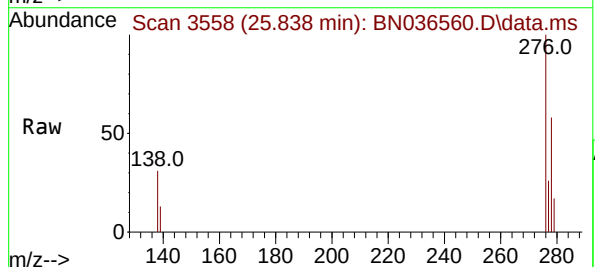
Tgt Ion:276 Resp: 11785

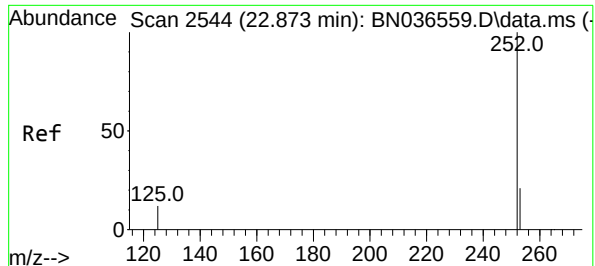
Ion Ratio Lower Upper

276 100

138 29.6 23.4 35.2

277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.770 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

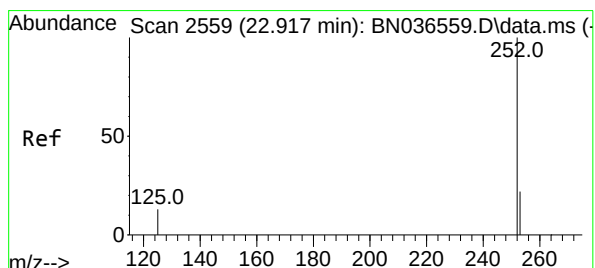
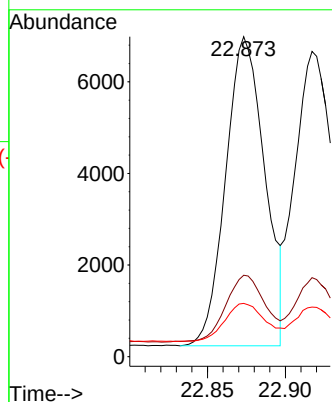
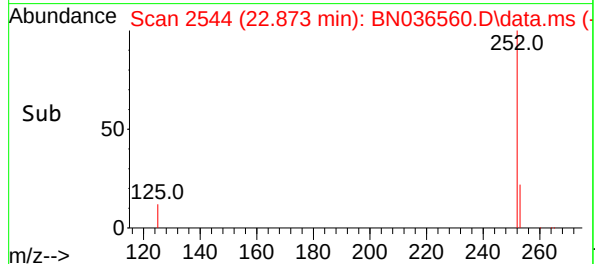
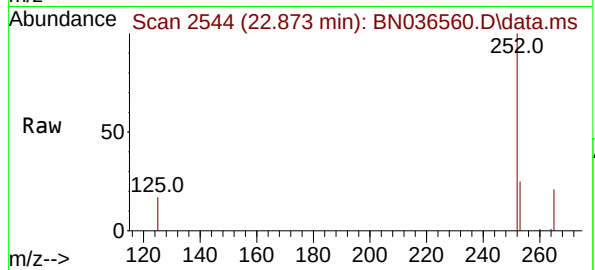
Tgt Ion:252 Resp: 11771

Ion Ratio Lower Upper

252 100

253 25.5 23.9 35.9

125 16.7 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.776 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

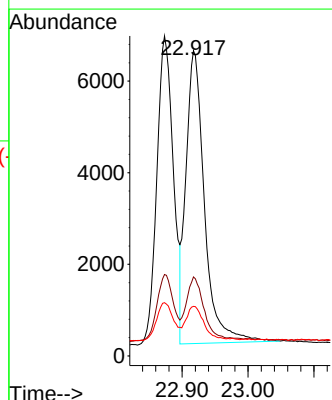
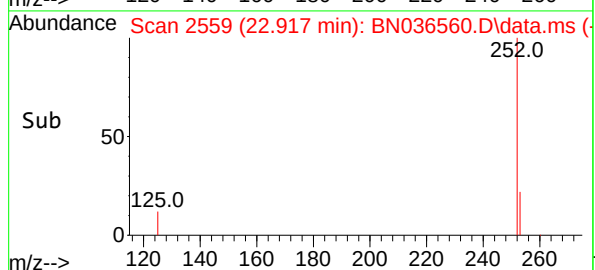
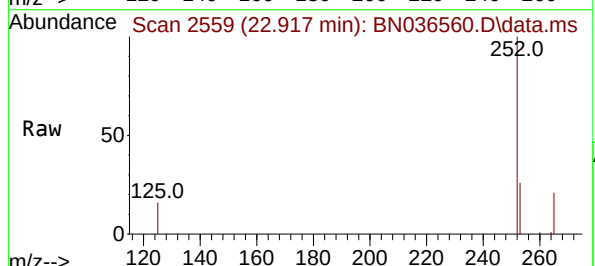
Tgt Ion:252 Resp: 12432

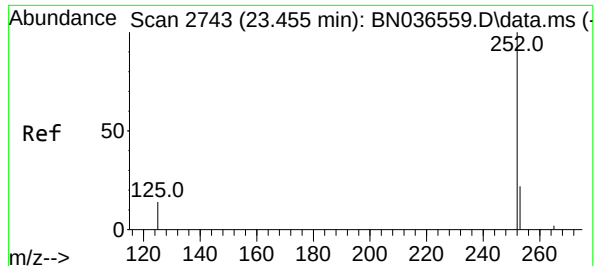
Ion Ratio Lower Upper

252 100

253 25.9 24.6 36.8

125 16.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.780 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

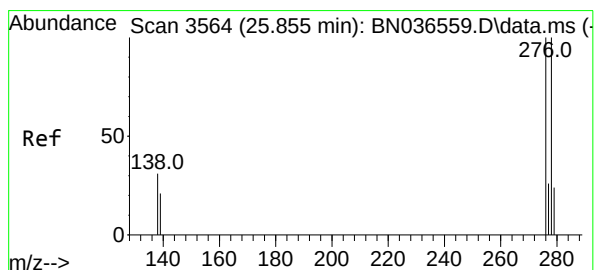
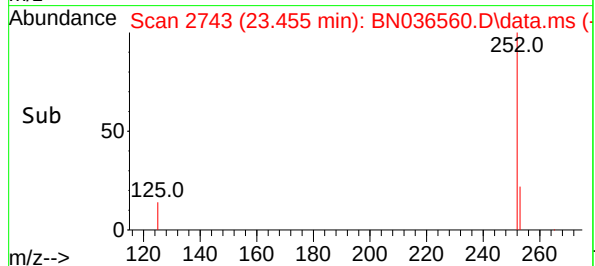
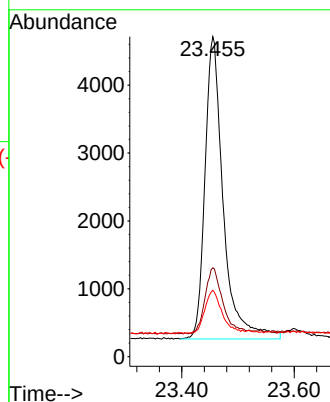
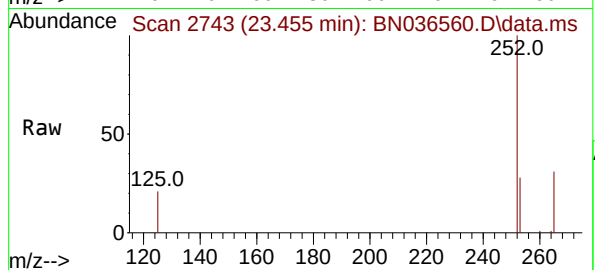
Tgt Ion:252 Resp: 10036

Ion Ratio Lower Upper

252 100

253 27.8 27.8 41.8#

125 20.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.801 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

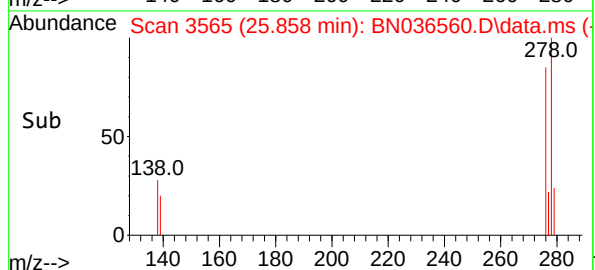
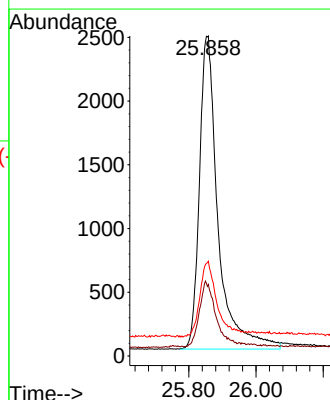
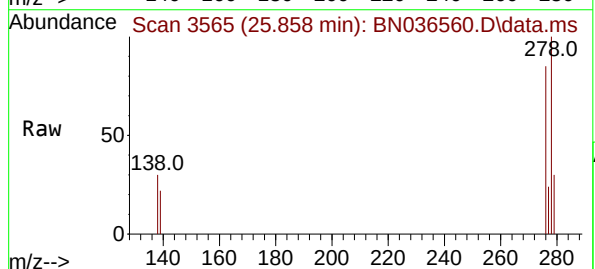
Tgt Ion:278 Resp: 9450

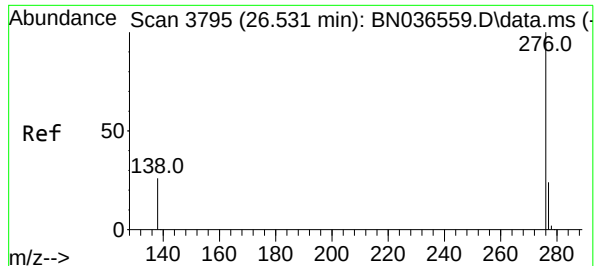
Ion Ratio Lower Upper

278 100

139 22.3 20.8 31.2

279 29.6 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.778 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036560.D

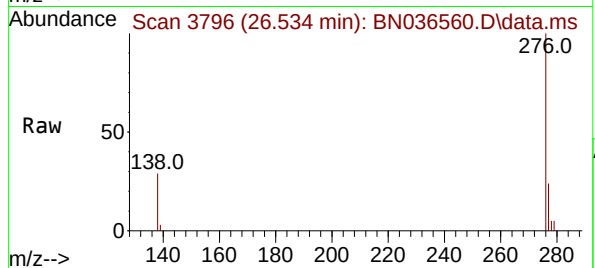
Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



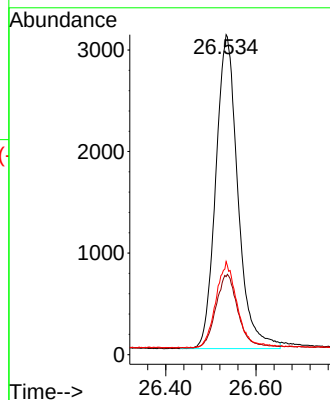
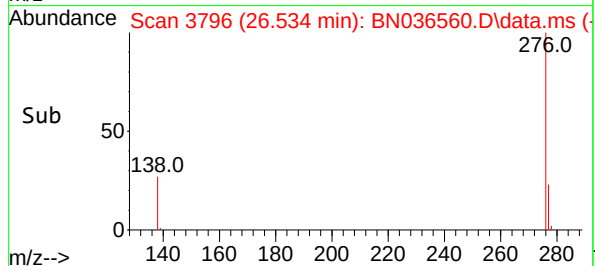
Tgt Ion:276 Resp: 10494

Ion Ratio Lower Upper

276 100

277 24.4 22.2 33.4

138 29.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036561.D
 Acq On : 10 Mar 2025 14:07
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

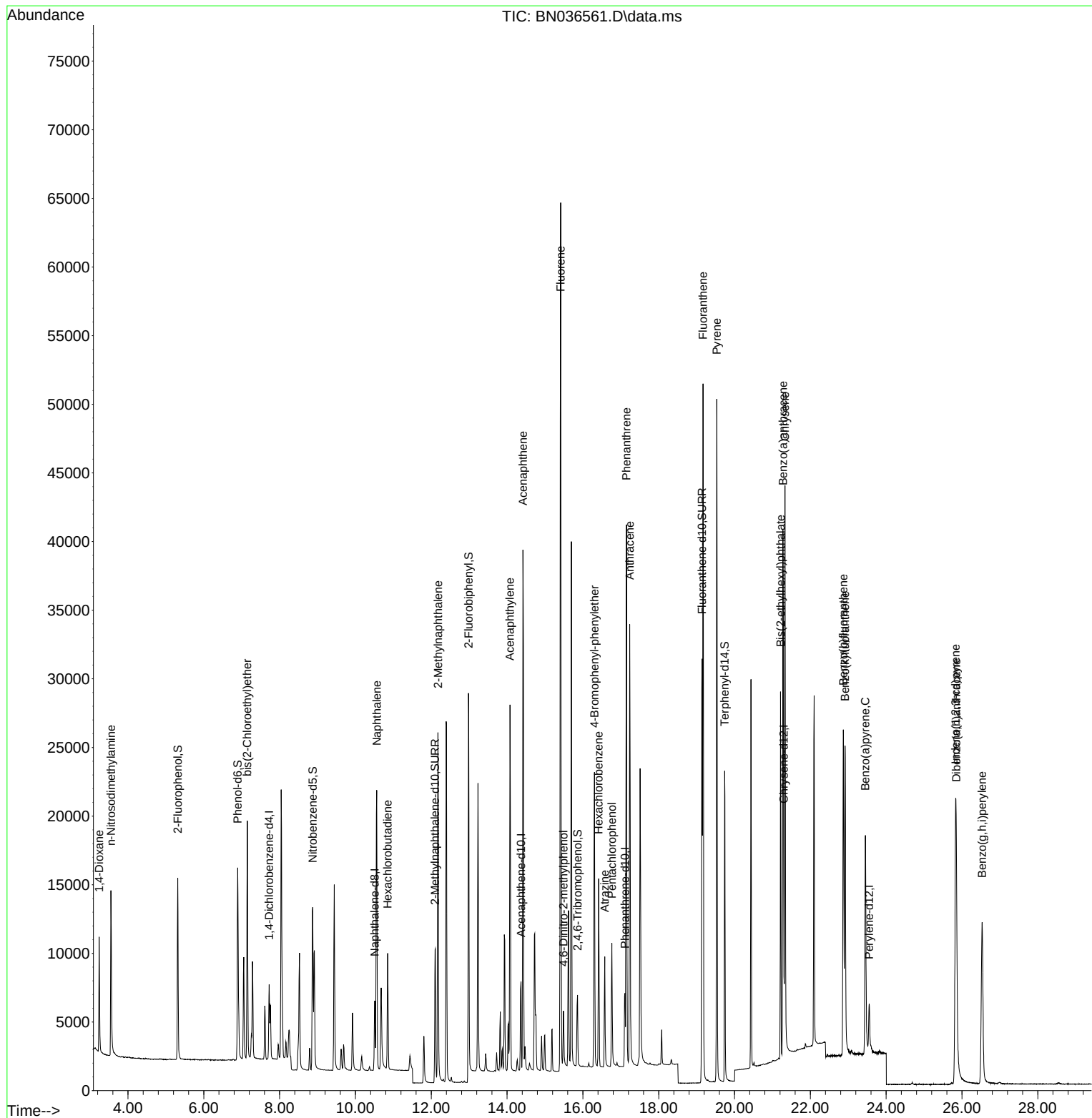
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng	# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	9276	1.569	ng	0.00
5) Phenol-d6	6.894	99	11493	1.574	ng	0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng	0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng	0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	4464	1.586	ng	98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng	99
9) Naphthalene	10.562	128	27473	1.506	ng	97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	# 99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng	98
16) Acenaphthylene	14.078	152	28080	1.555	ng	100
17) Acenaphthene	14.420	154	18355	1.553	ng	98
18) Fluorene	15.414	166	25565	1.599	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	# 64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	# 85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng	100
23) Atrazine	16.578	200	6530	1.595	ng	# 91
24) Pentachlorophenol	16.764	266	4395	1.563	ng	99
25) Phenanthrene	17.149	178	37989	1.554	ng	99
26) Anthracene	17.235	178	35054	1.589	ng	99
28) Fluoranthene	19.169	202	44451	1.619	ng	99
30) Pyrene	19.531	202	44705	1.530	ng	100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng	98
33) Chrysene	21.331	228	34953	1.539	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng	99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	# 86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	# 85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	# 79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	# 85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng	93

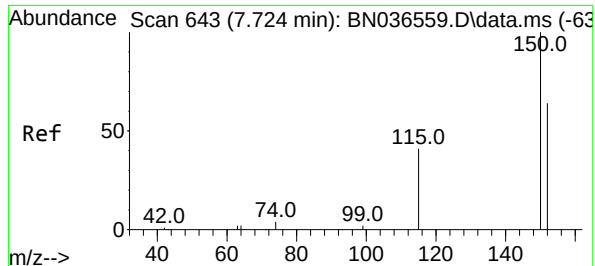
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

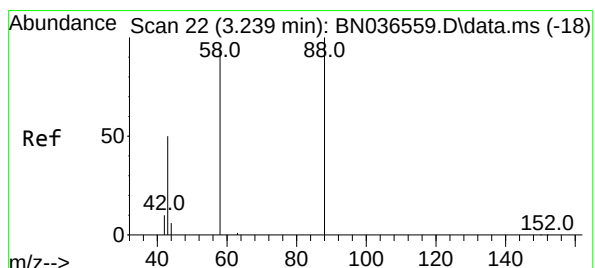
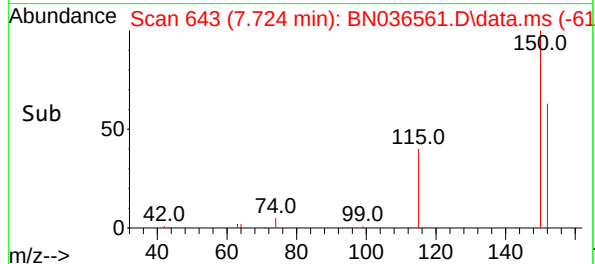
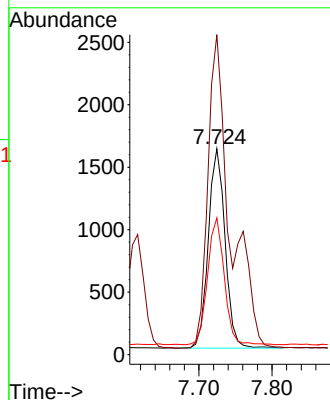
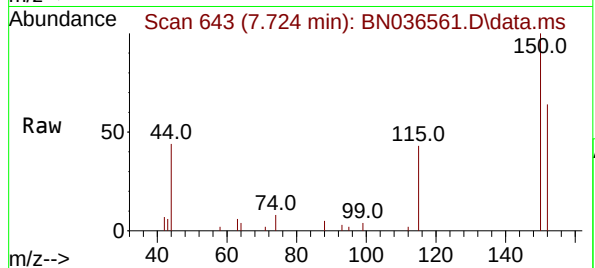




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

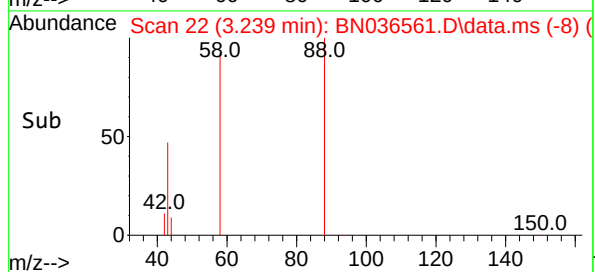
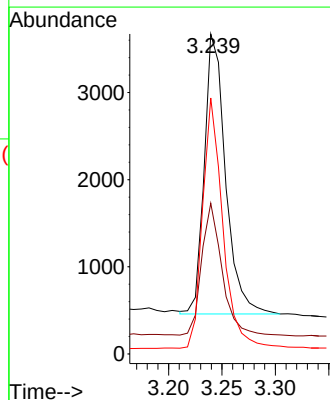
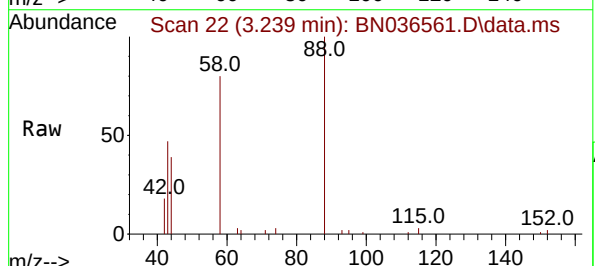
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

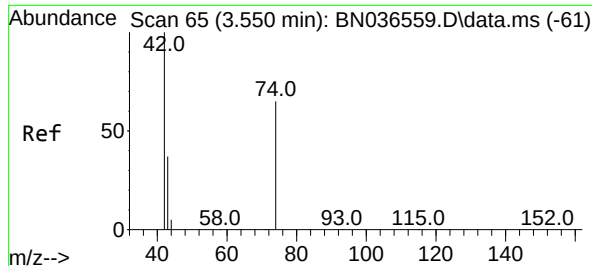
Tgt Ion:152 Resp: 2537
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464
Ion Ratio Lower Upper
88 100
43 45.1 37.8 56.8
58 85.6 67.4 101.2

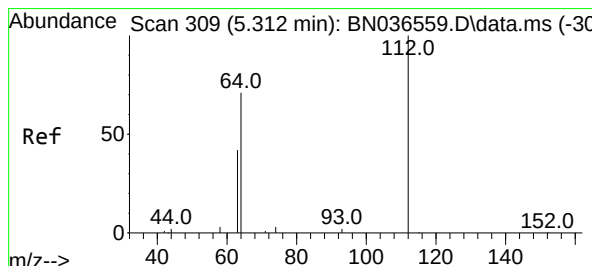
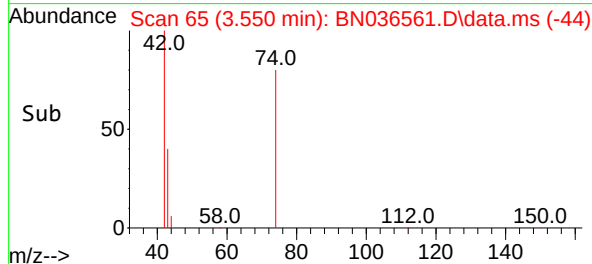
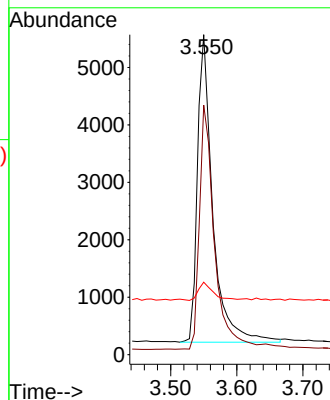
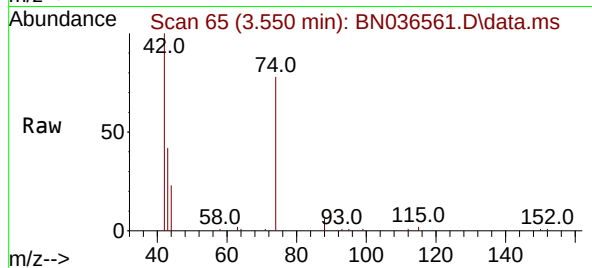




#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

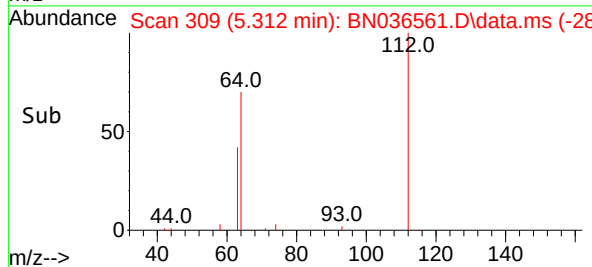
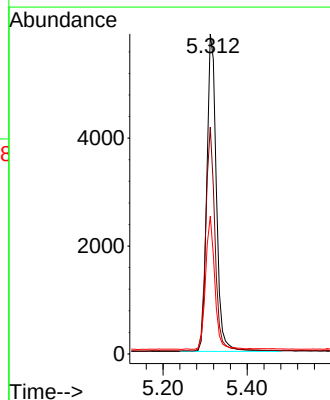
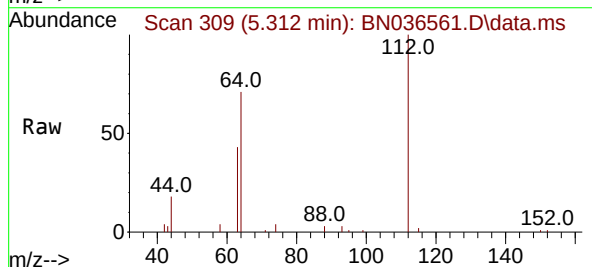
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

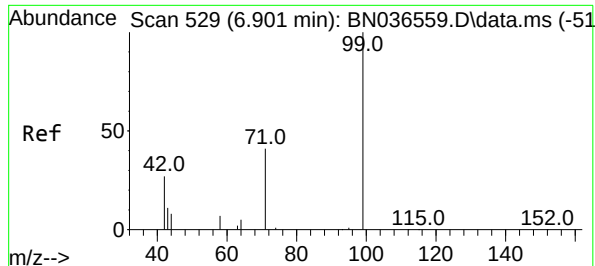
Tgt Ion: 42 Resp: 8625
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 5.8 6.3 9.5#



#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 112 Resp: 9276
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 40.1 31.8 47.8

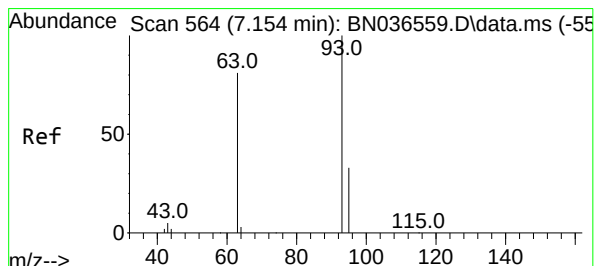
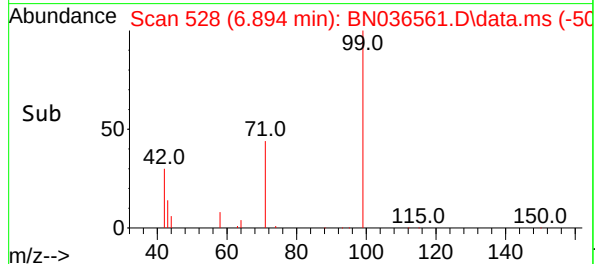
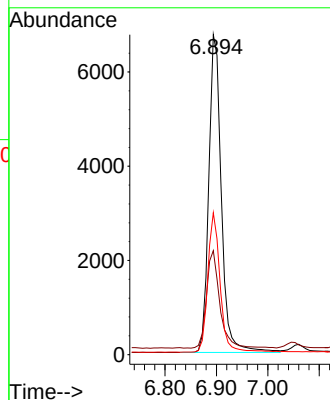
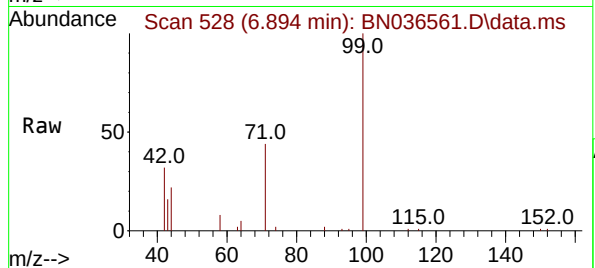




#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

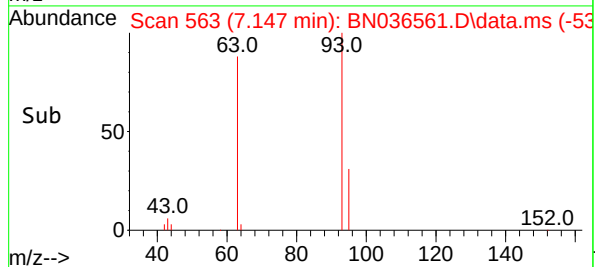
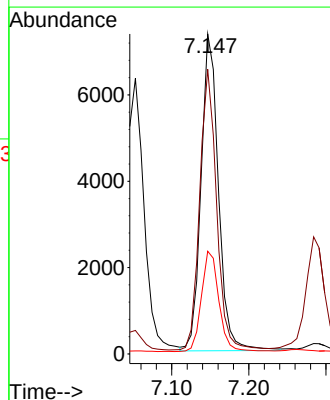
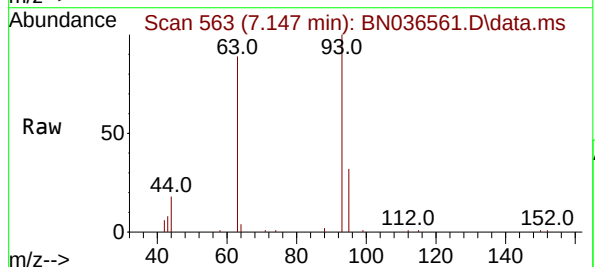
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

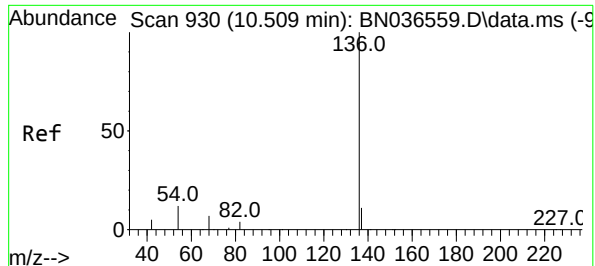
Tgt Ion: 99 Resp: 11493
Ion Ratio Lower Upper
99 100
42 32.6 26.5 39.7
71 43.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 31.8 25.6 38.4

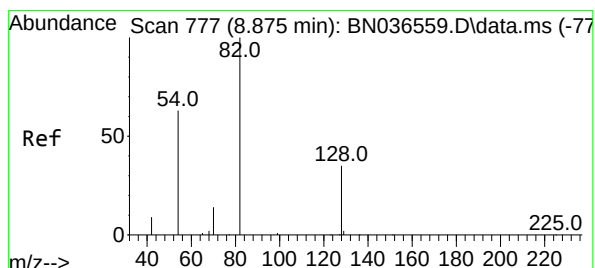
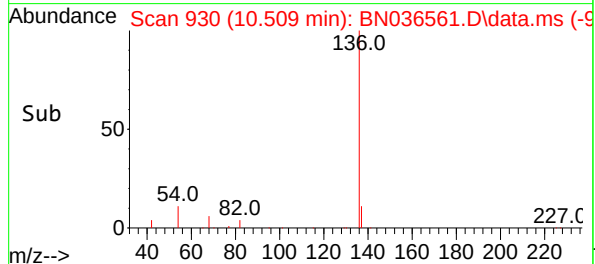
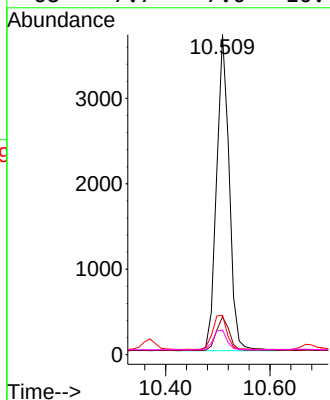
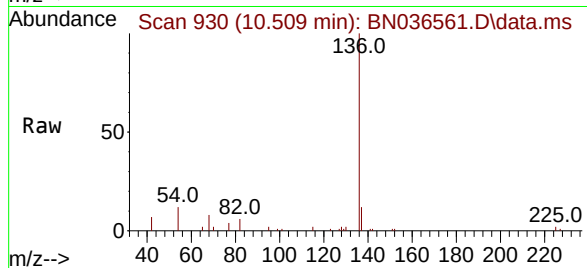




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

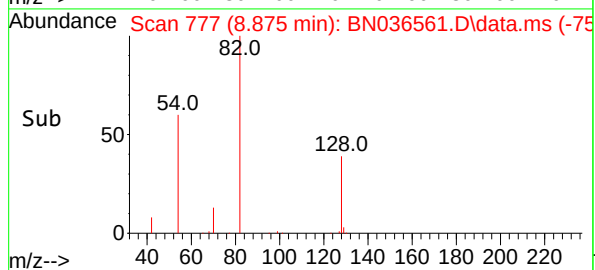
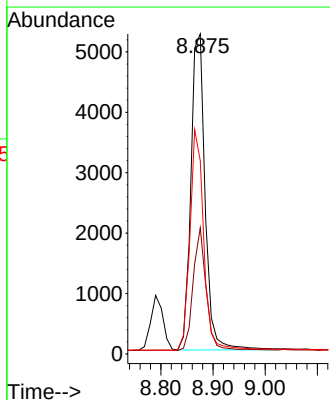
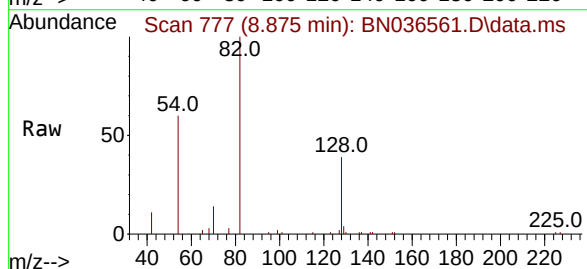
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

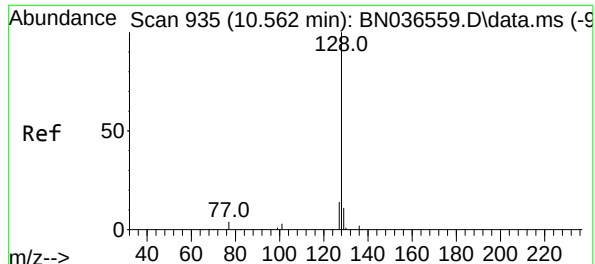
Tgt Ion:	136	Resp:	6200
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:	82	Resp:	9959
Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4





#9

Naphthalene

Concen: 1.506 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

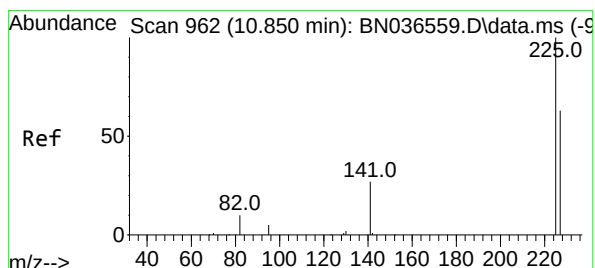
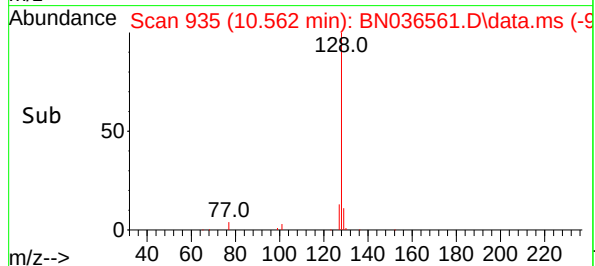
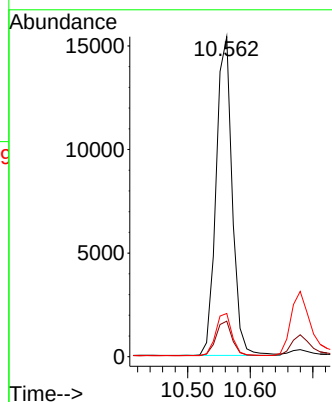
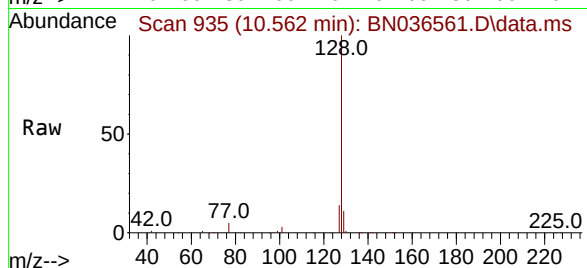
Tgt Ion:128 Resp: 27473

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.5 11.8 17.8



#10

Hexachlorobutadiene

Concen: 1.506 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

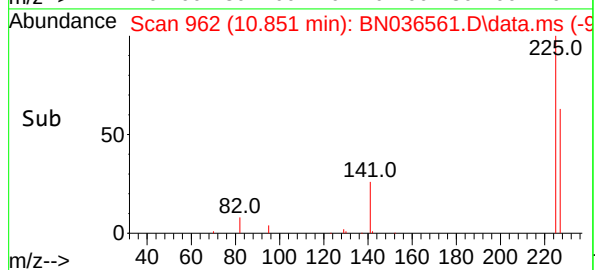
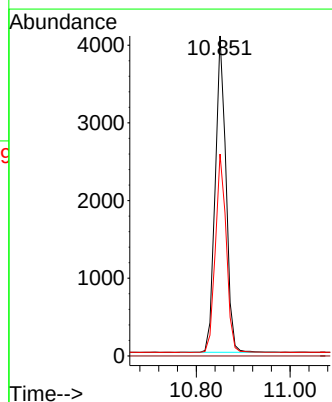
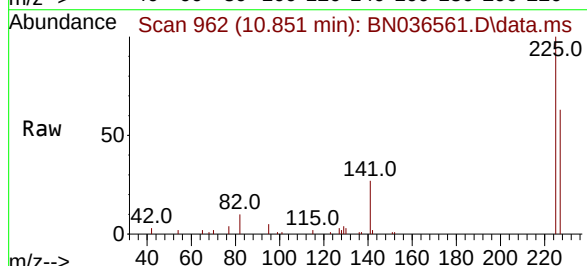
Tgt Ion:225 Resp: 6466

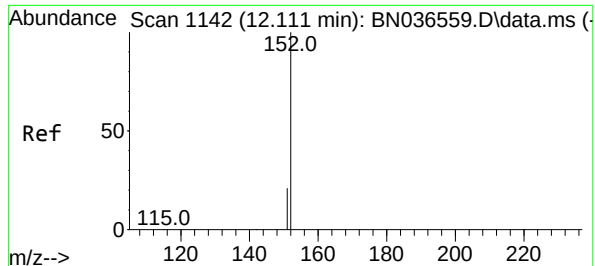
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.8 77.8

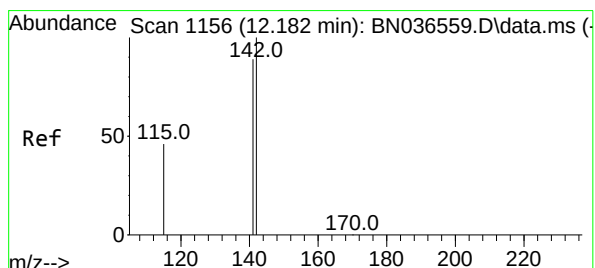
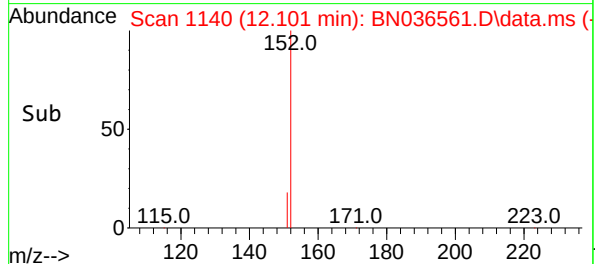
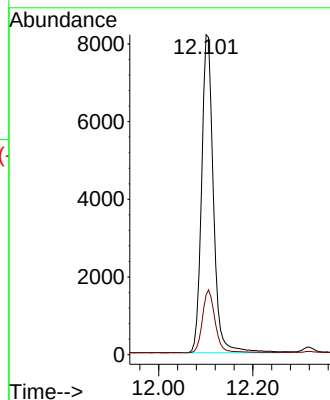
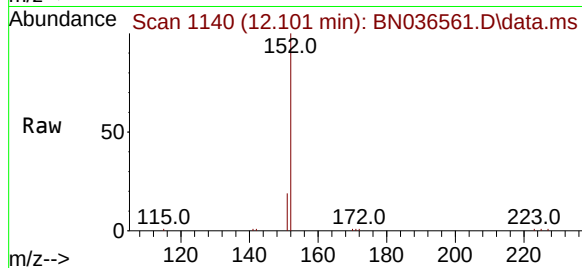




#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

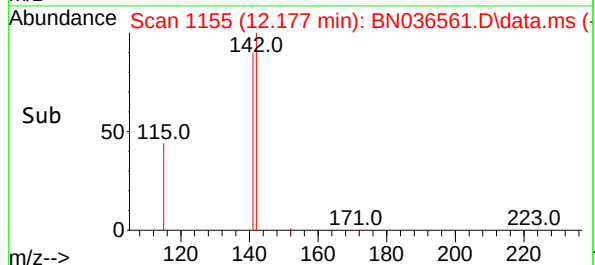
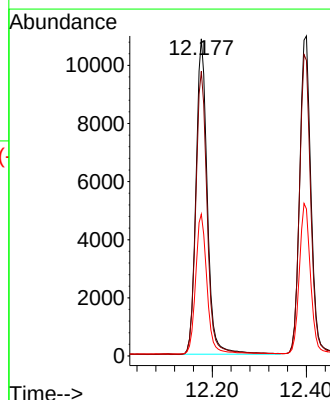
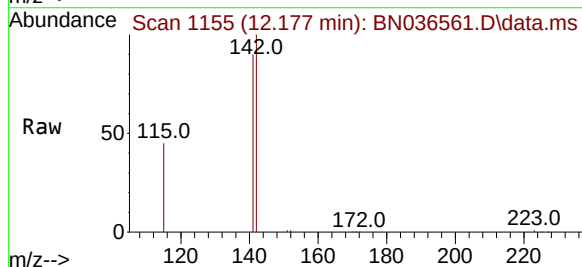
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

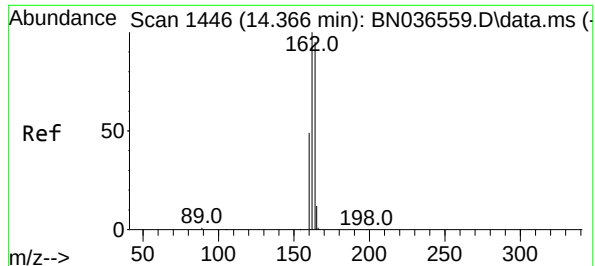
Tgt Ion:152 Resp: 14319
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 44.7 38.3 57.5

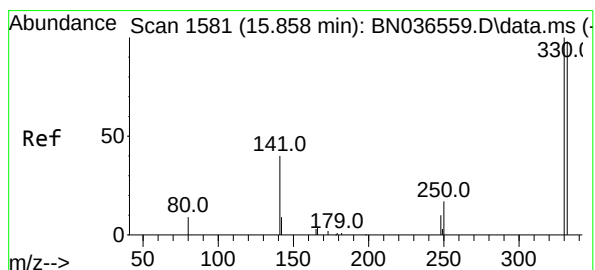
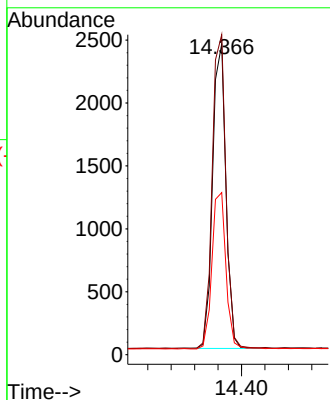
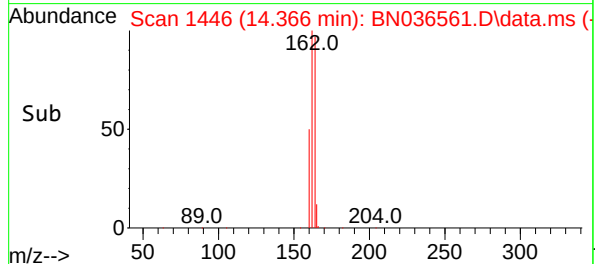
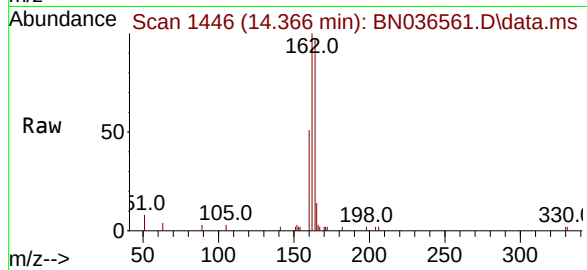




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

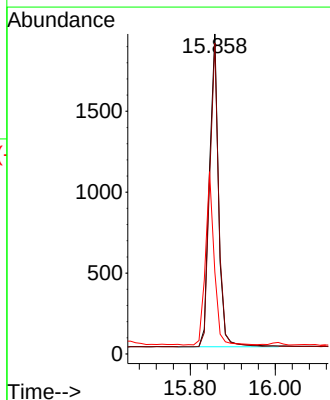
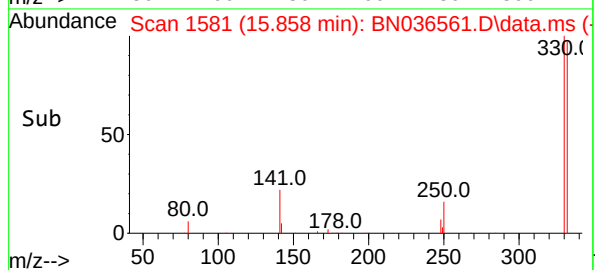
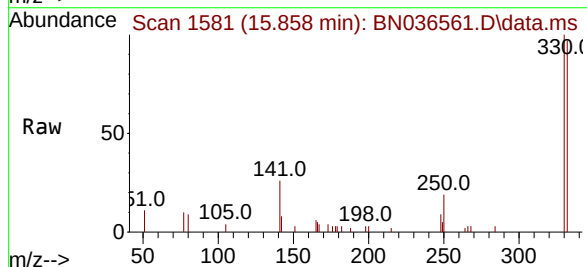
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

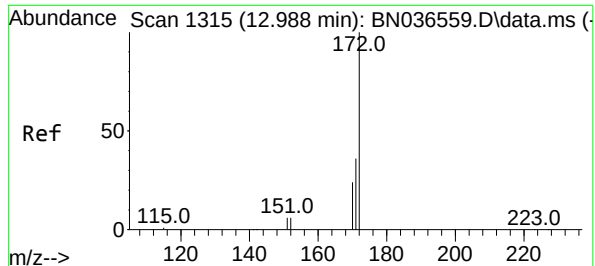
Tgt Ion:164 Resp: 3827
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872
Ion Ratio Lower Upper
330 100
332 96.3 75.2 112.8
141 53.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 1.626 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

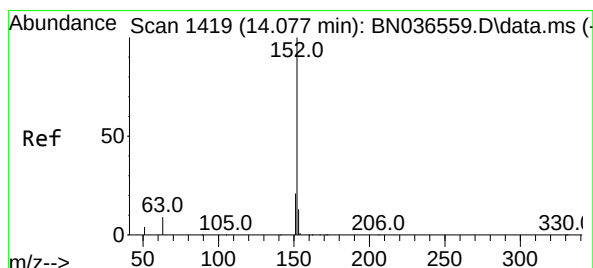
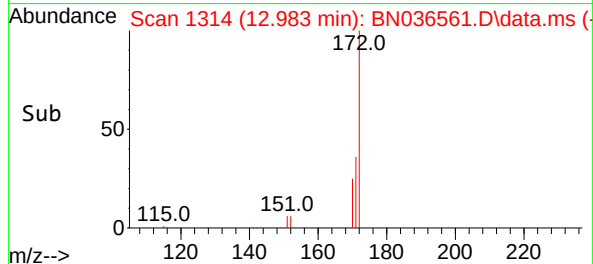
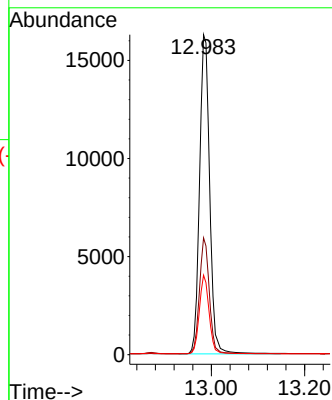
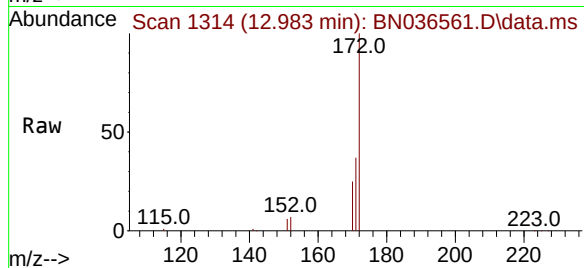
Tgt Ion:172 Resp: 36192

Ion Ratio Lower Upper

172 100

171 36.5 29.5 44.3

170 24.9 20.2 30.4



#16

Acenaphthylene

Concen: 1.555 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

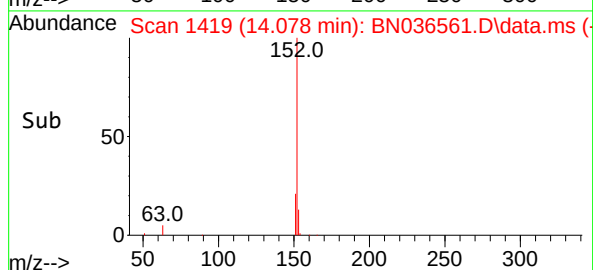
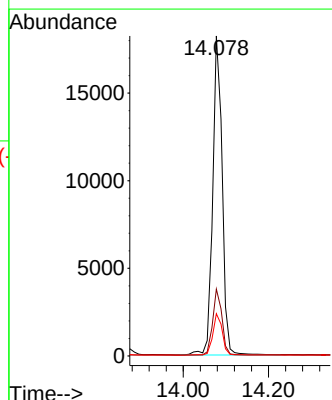
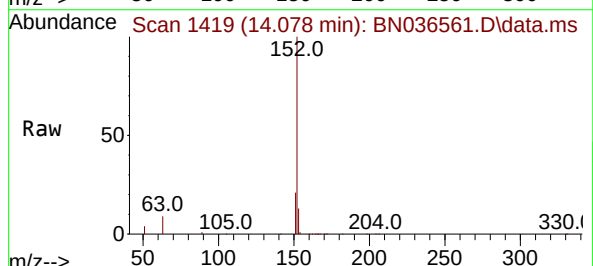
Tgt Ion:152 Resp: 28080

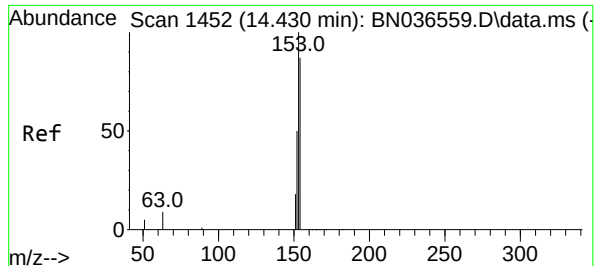
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 1.553 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

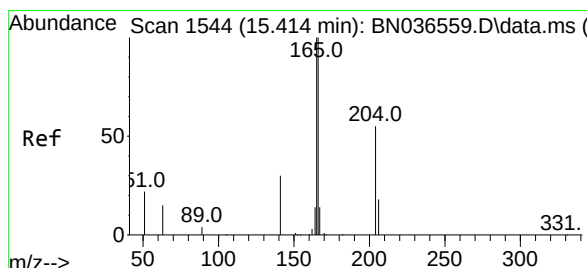
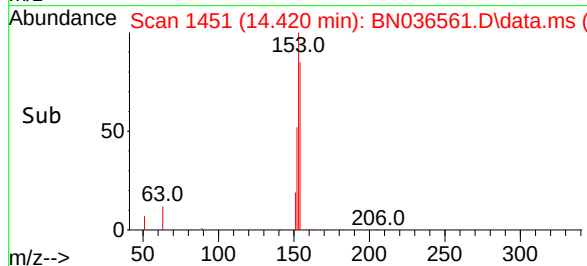
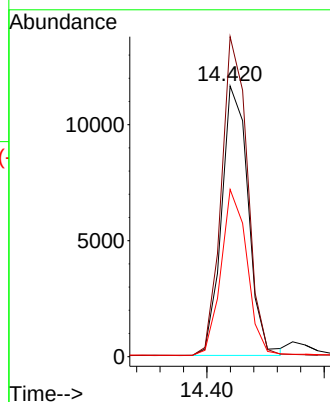
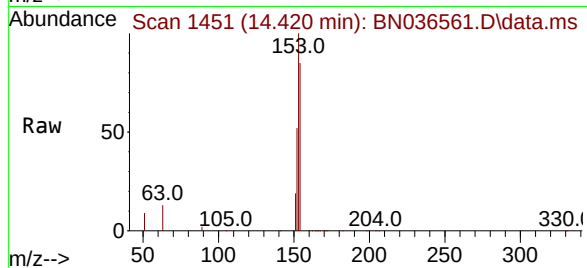
Tgt Ion:154 Resp: 18355

Ion Ratio Lower Upper

154 100

153 115.7 94.1 141.1

152 60.3 49.8 74.6



#18

Fluorene

Concen: 1.599 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

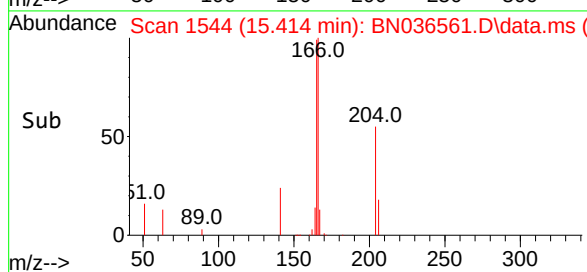
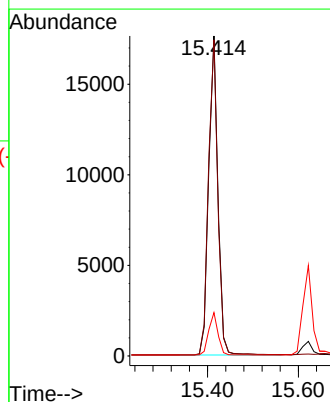
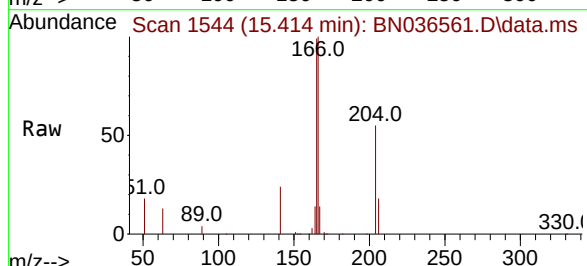
Tgt Ion:166 Resp: 25565

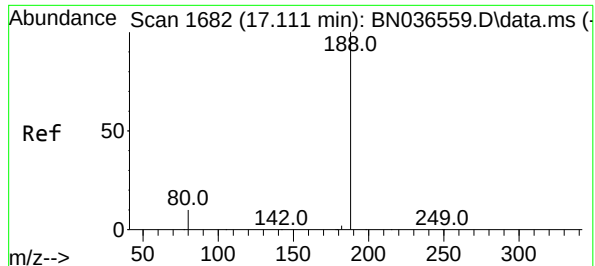
Ion Ratio Lower Upper

166 100

165 100.5 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

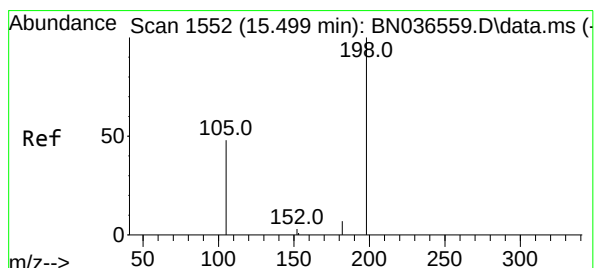
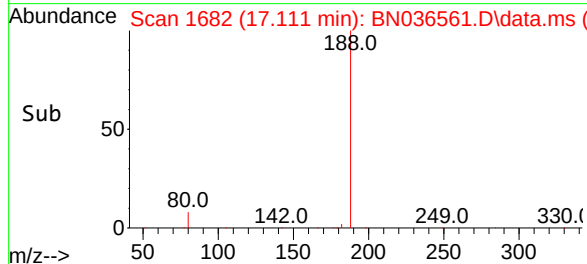
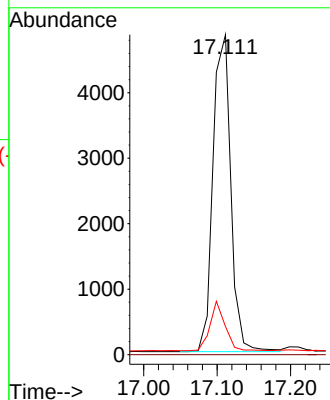
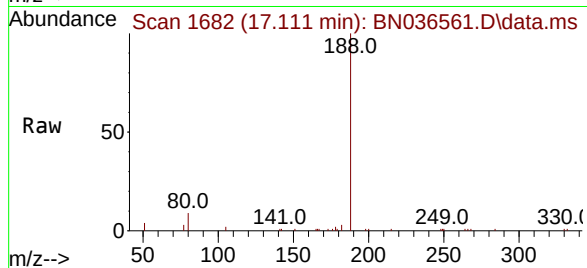
Tgt Ion:188 Resp: 8149

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.488 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

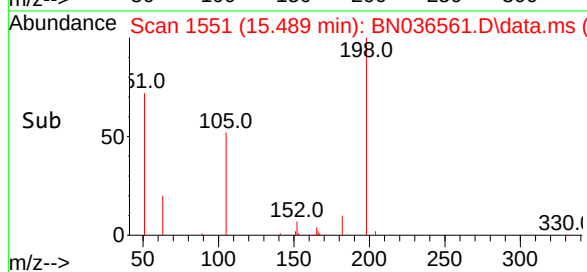
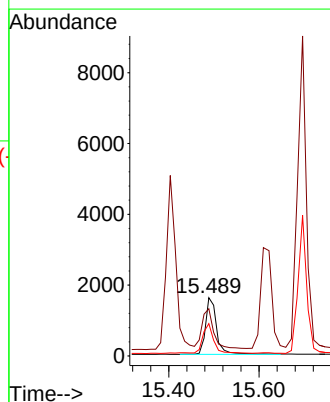
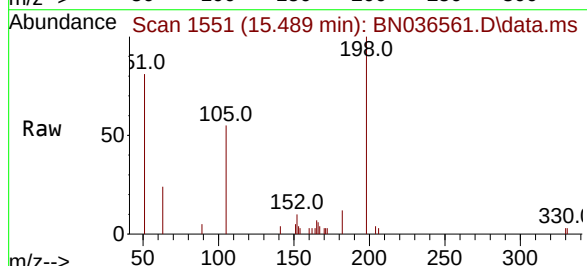
Tgt Ion:198 Resp: 2879

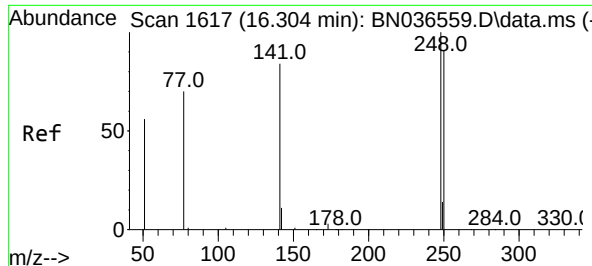
Ion Ratio Lower Upper

198 100

51 81.2 107.9 161.9#

105 55.5 56.2 84.2#

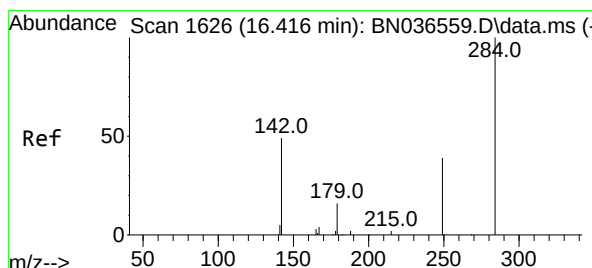
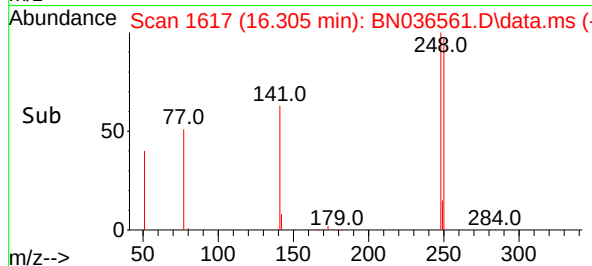
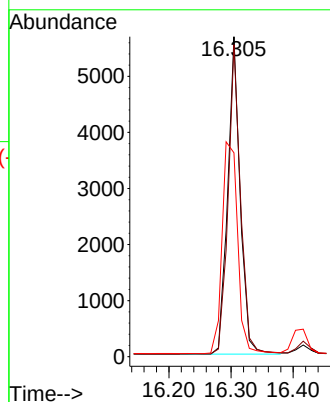
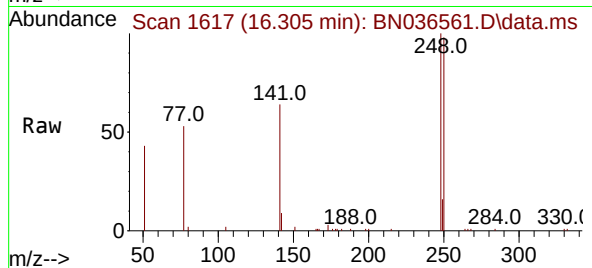




#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

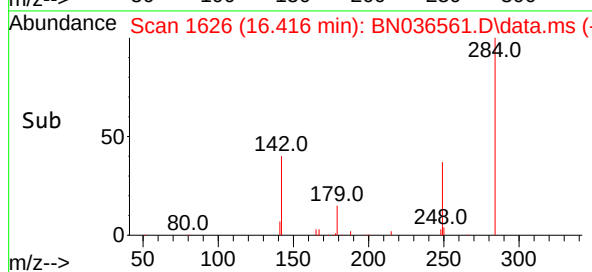
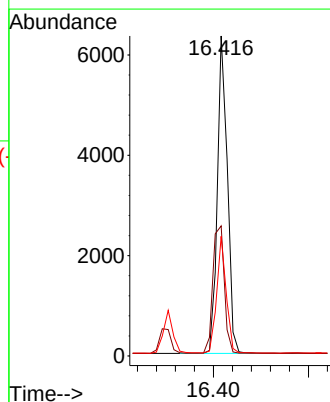
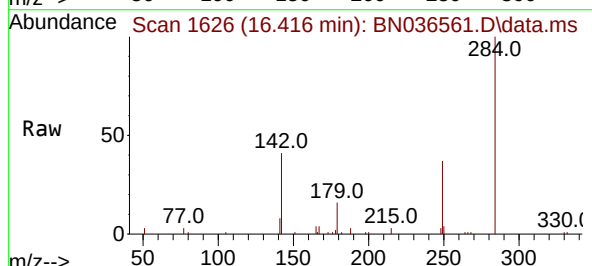
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

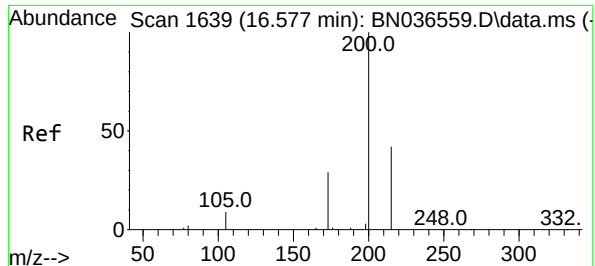
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1

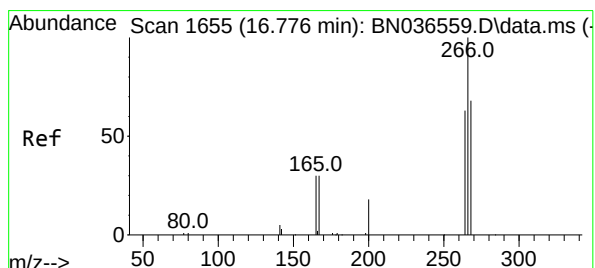
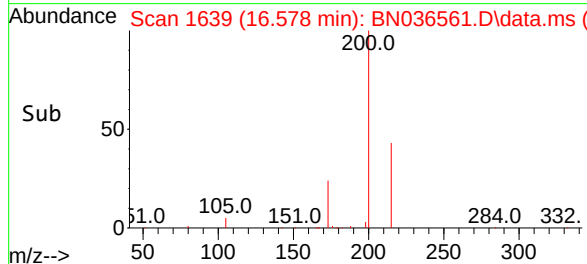
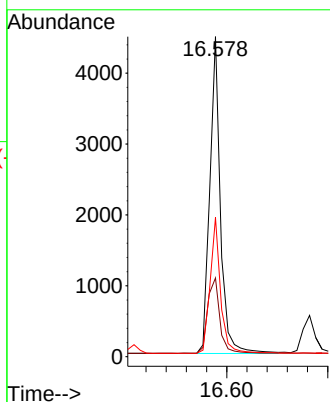
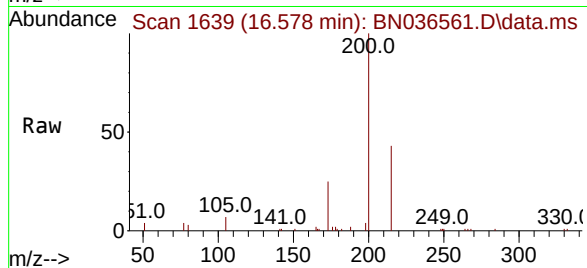




#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

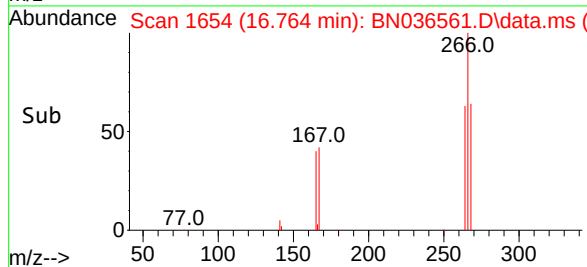
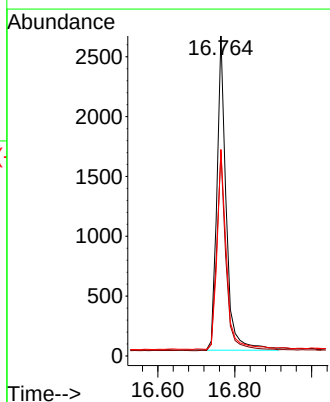
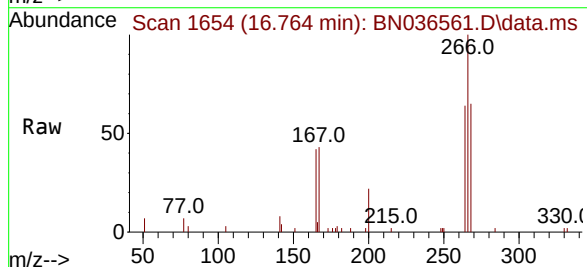
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

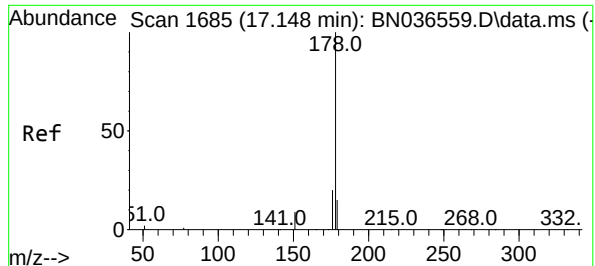
Tgt Ion:200 Resp: 6530
Ion Ratio Lower Upper
200 100
173 24.6 27.3 40.9#
215 43.5 36.8 55.2



#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395
Ion Ratio Lower Upper
266 100
264 63.5 49.6 74.4
268 64.4 50.9 76.3

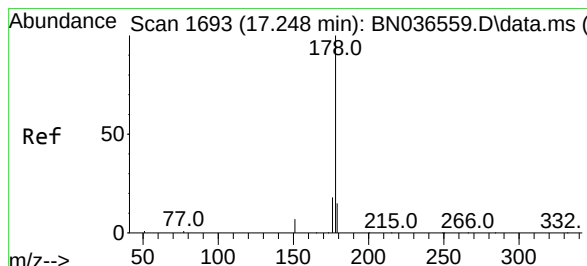
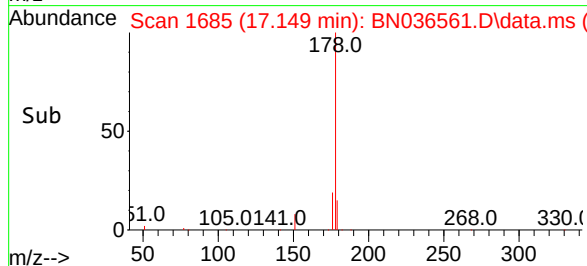
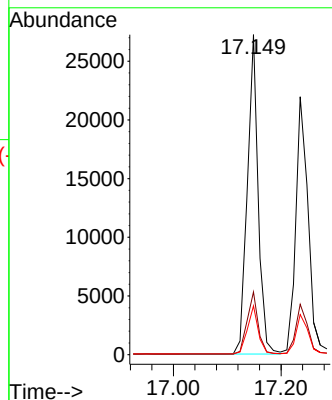
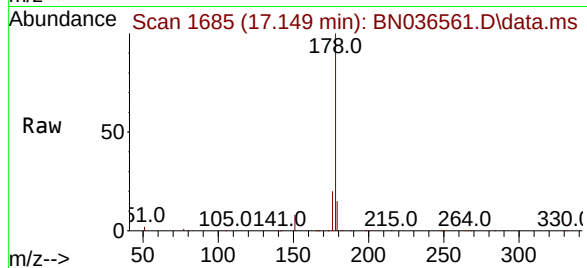




#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

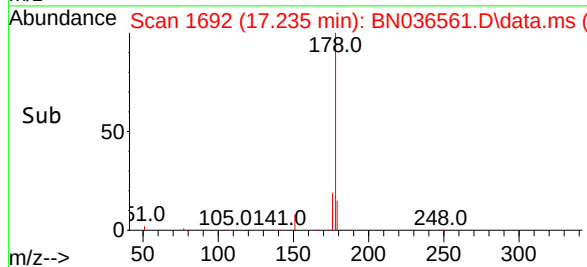
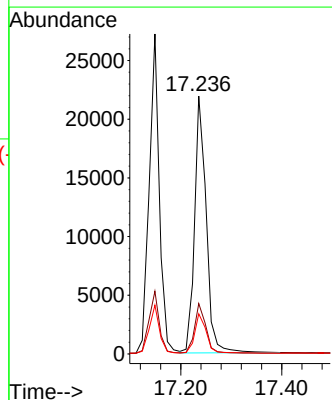
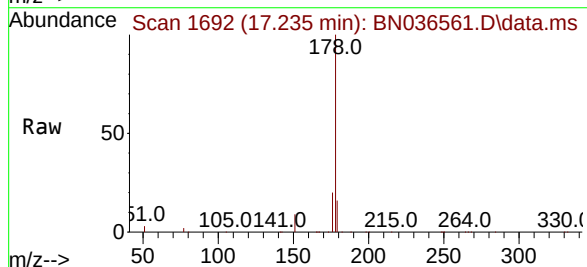
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

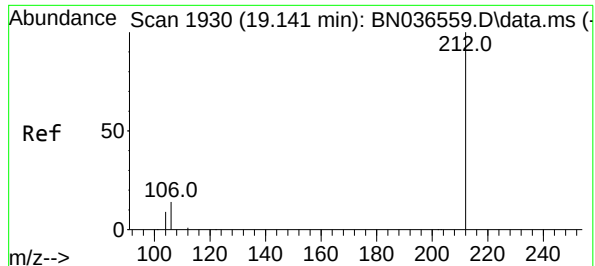
Tgt Ion:178 Resp: 37989
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.600 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

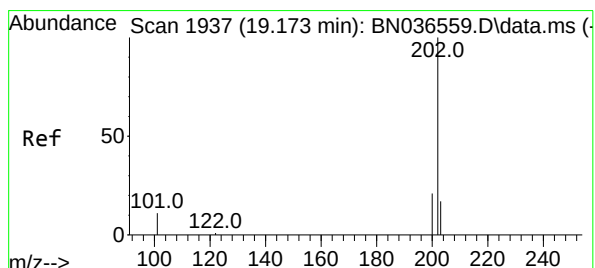
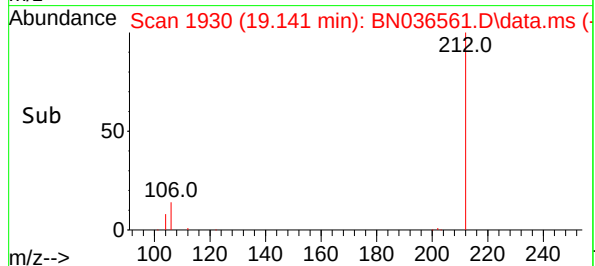
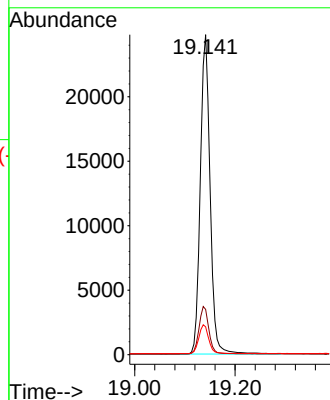
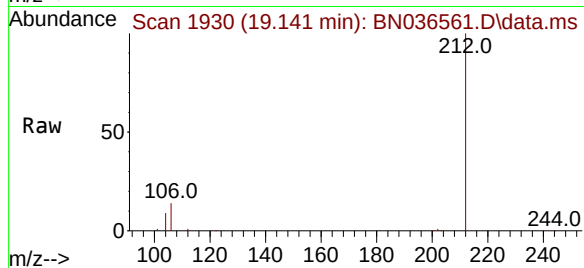
Tgt Ion:212 Resp: 33414

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 1.619 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

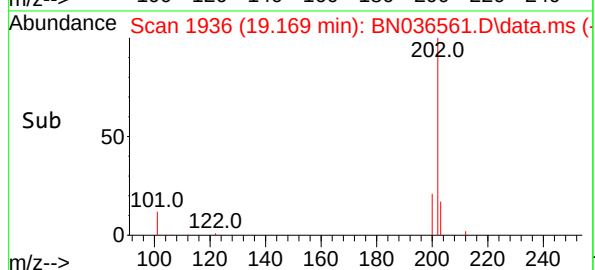
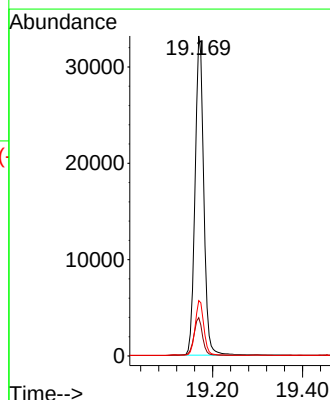
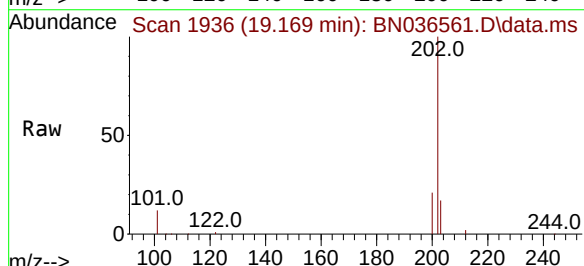
Tgt Ion:202 Resp: 44451

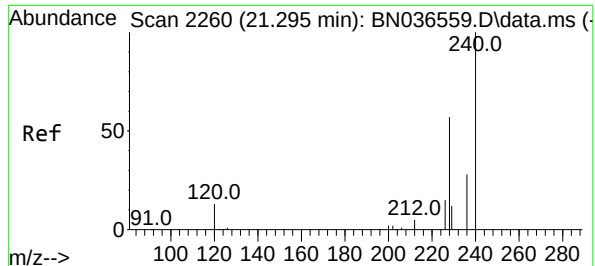
Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.0

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

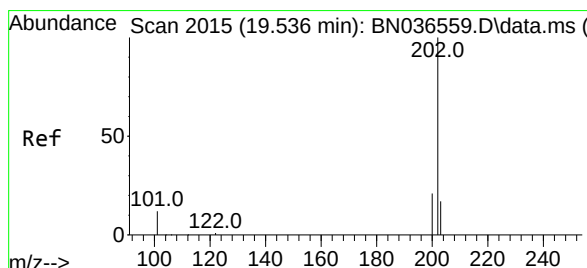
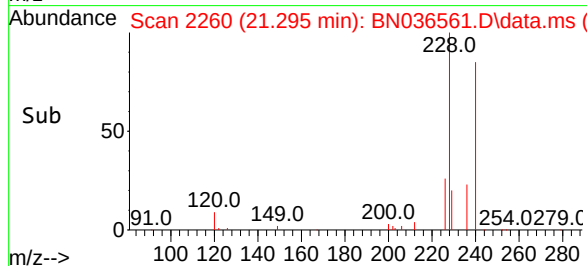
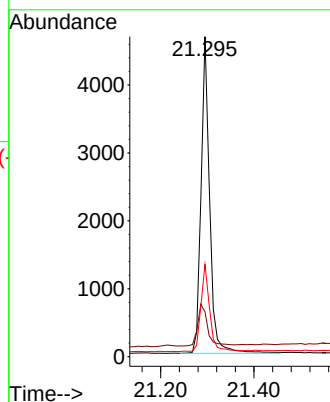
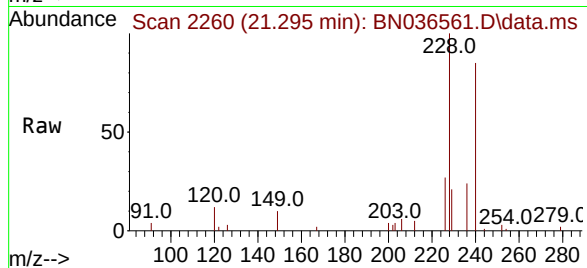
Tgt Ion:240 Resp: 5977

Ion Ratio Lower Upper

240 100

120 14.0 14.6 22.0#

236 28.9 24.1 36.1



#30

Pyrene

Concen: 1.530 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

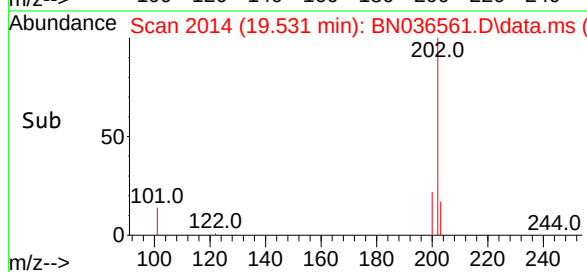
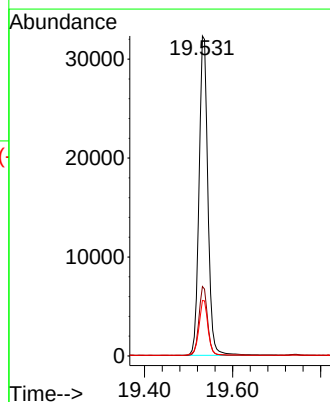
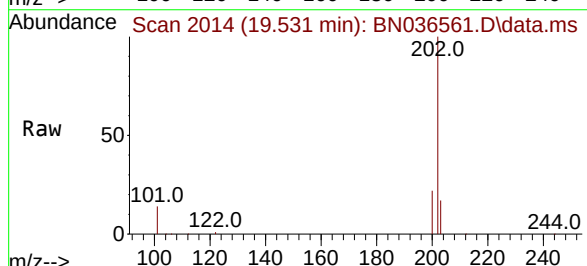
Tgt Ion:202 Resp: 44705

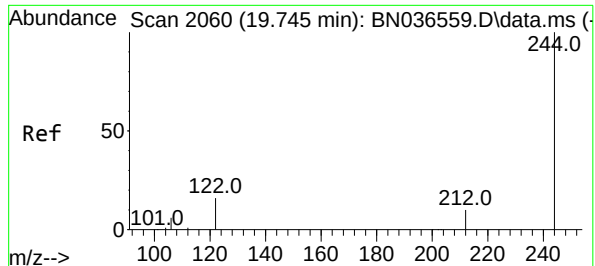
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.5 14.1 21.1





#31

Terphenyl-d14

Concen: 1.527 ng

RT: 19.740 min Scan# 2060

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

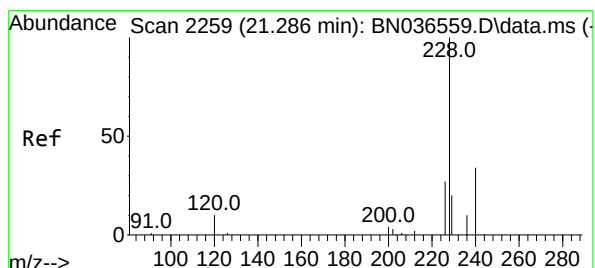
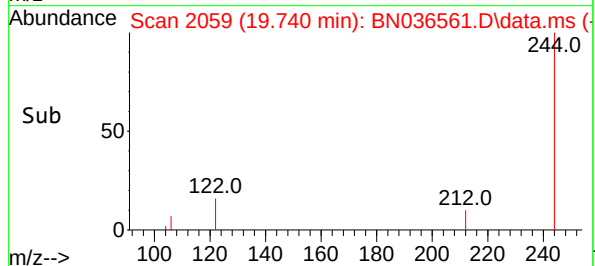
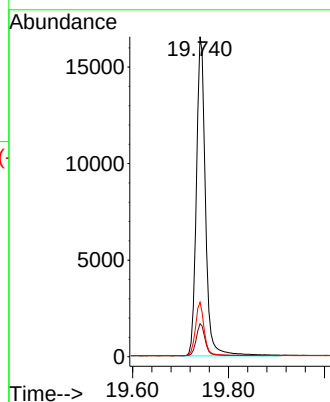
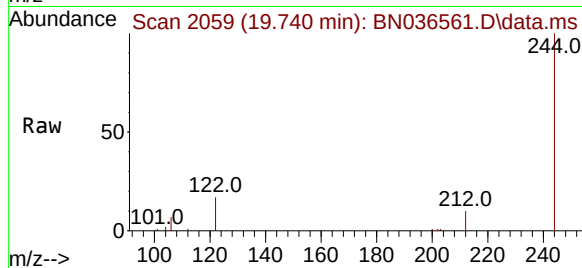
Tgt Ion:244 Resp: 21872

Ion Ratio Lower Upper

244 100

212 10.3 9.6 14.4

122 17.0 13.9 20.9



#32

Benzo(a)anthracene

Concen: 1.550 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.009 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

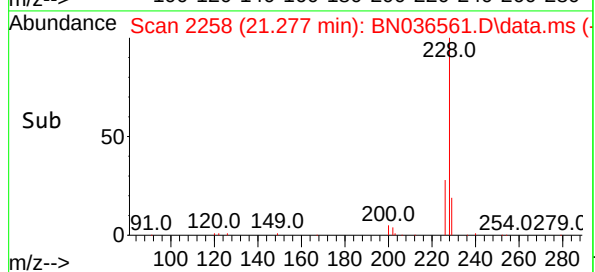
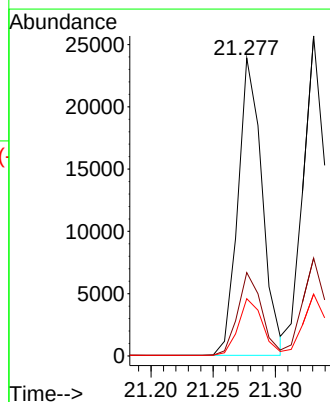
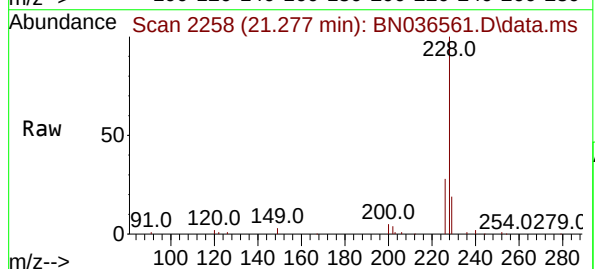
Tgt Ion:228 Resp: 32205

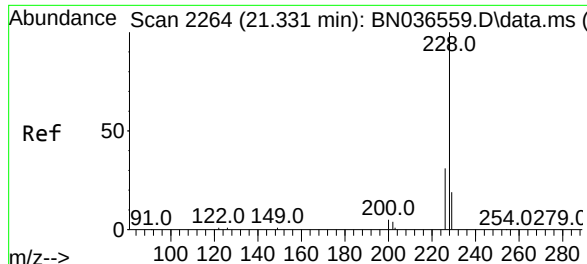
Ion Ratio Lower Upper

228 100

226 28.0 22.5 33.7

229 19.2 16.6 25.0





#33

Chrysene

Concen: 1.539 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

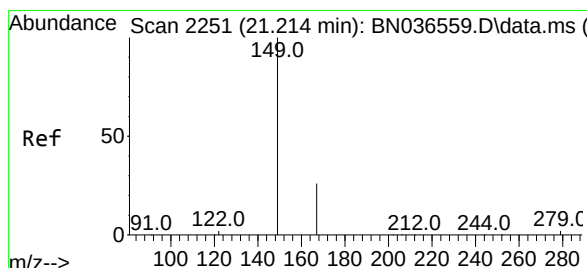
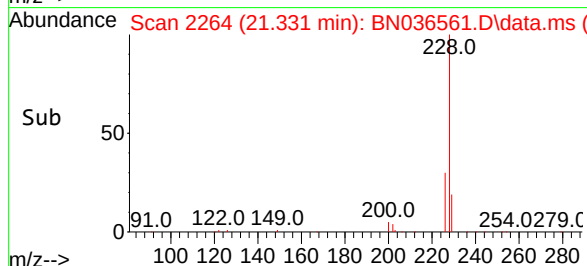
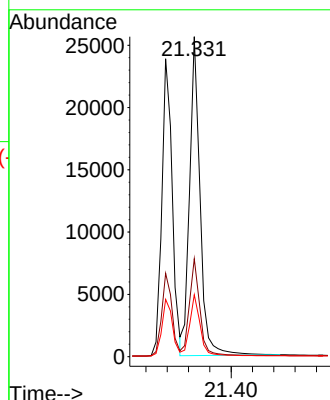
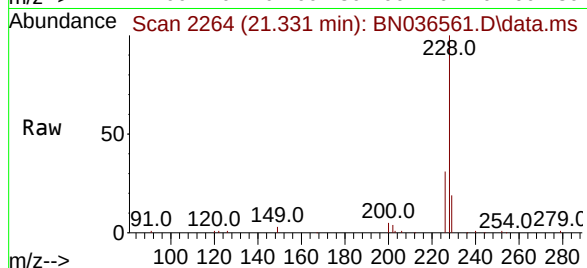
Tgt Ion:228 Resp: 34953

Ion Ratio Lower Upper

228 100

226 30.6 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.529 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

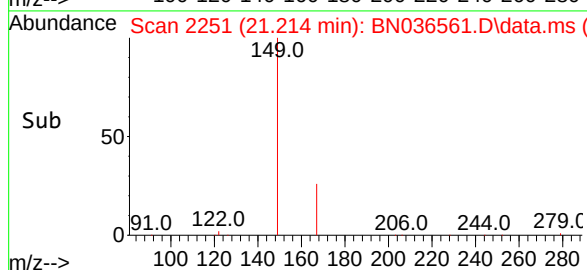
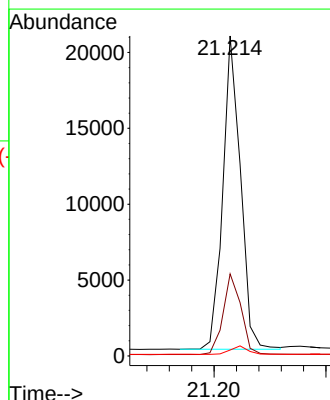
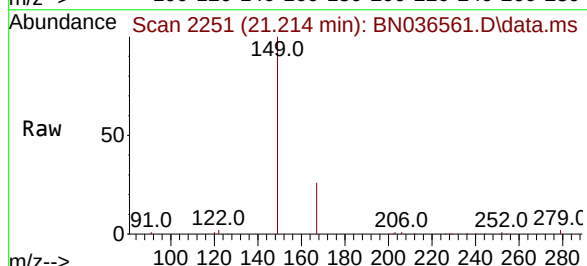
Tgt Ion:149 Resp: 22621

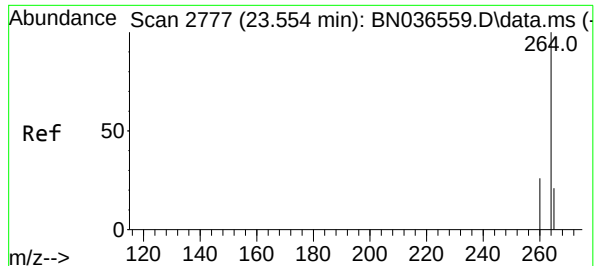
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

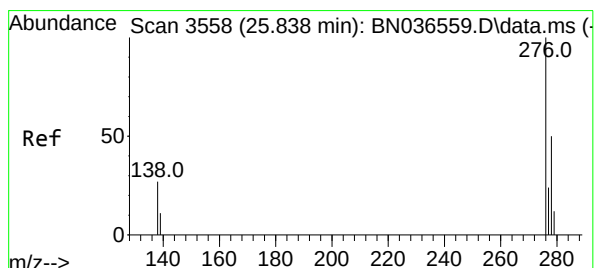
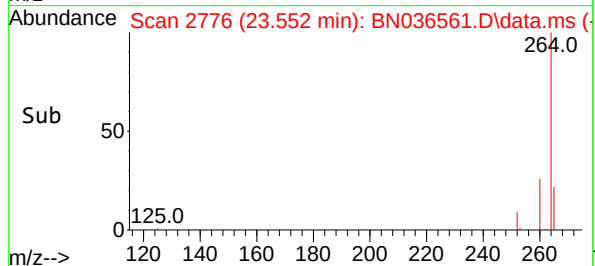
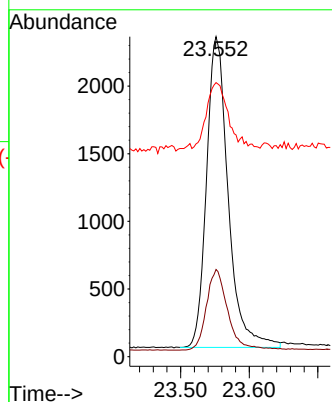
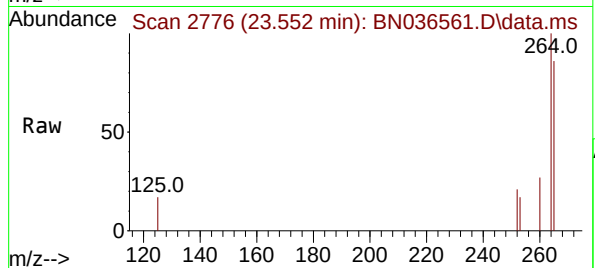
Tgt Ion:264 Resp: 5048

Ion Ratio Lower Upper

264 100

260 27.2 22.6 33.8

265 85.7 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.570 ng

RT: 25.832 min Scan# 3556

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

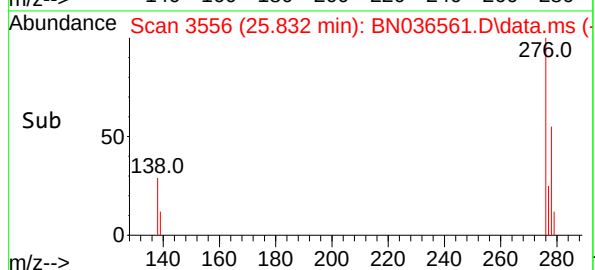
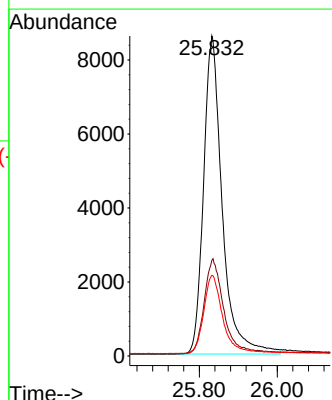
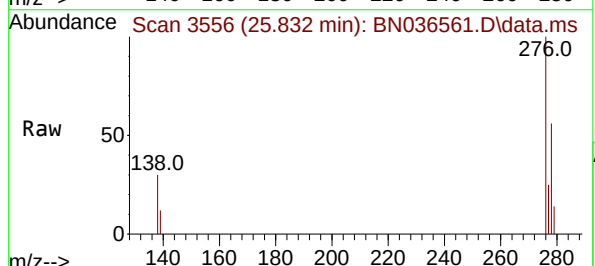
Tgt Ion:276 Resp: 28605

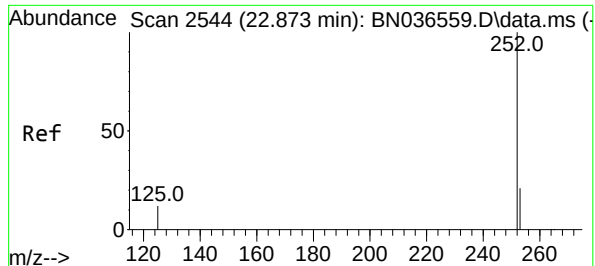
Ion Ratio Lower Upper

276 100

138 30.4 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.623 ng

RT: 22.870 min Scan# 2544

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

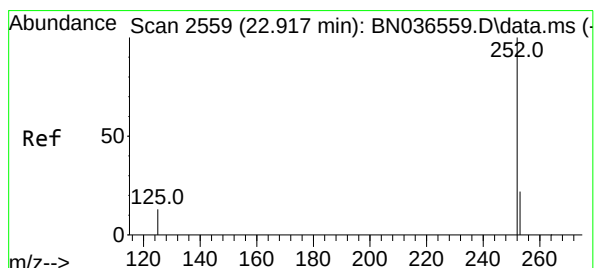
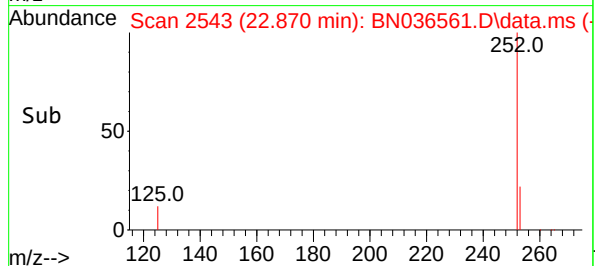
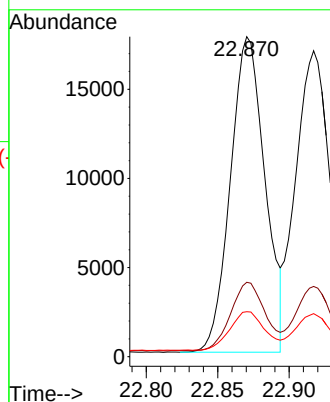
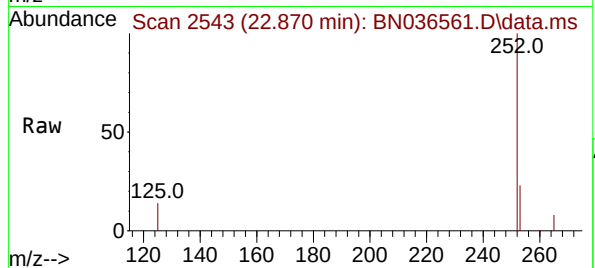
Tgt Ion:252 Resp: 29819

Ion Ratio Lower Upper

252 100

253 23.3 23.9 35.9#

125 14.0 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.593 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

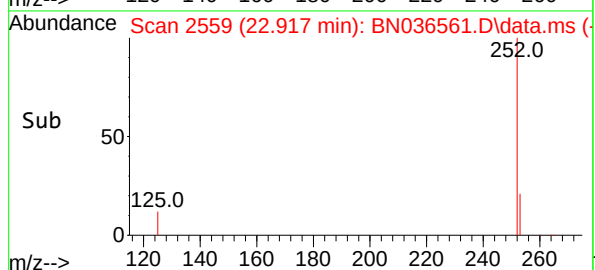
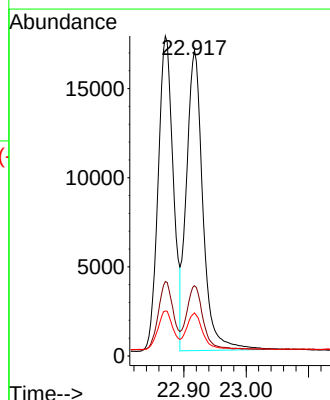
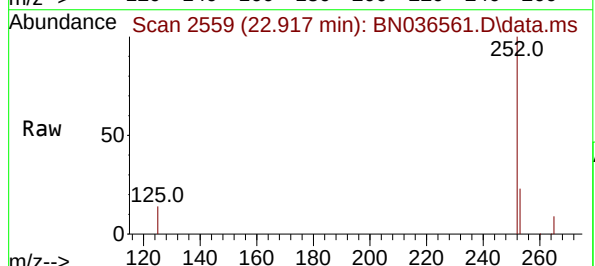
Tgt Ion:252 Resp: 30710

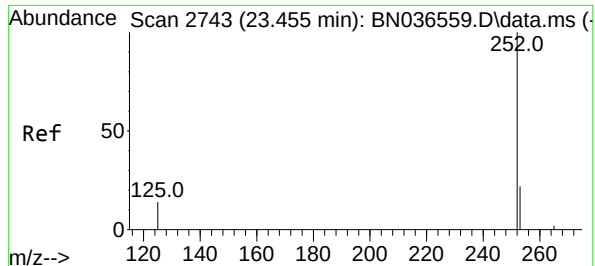
Ion Ratio Lower Upper

252 100

253 23.0 24.6 36.8#

125 14.1 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.596 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

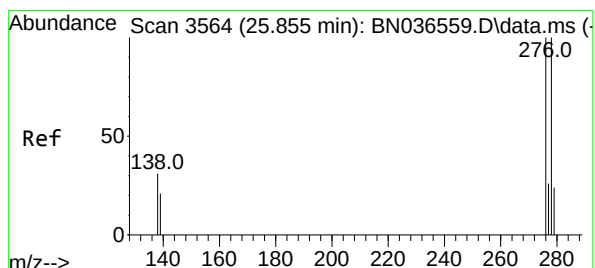
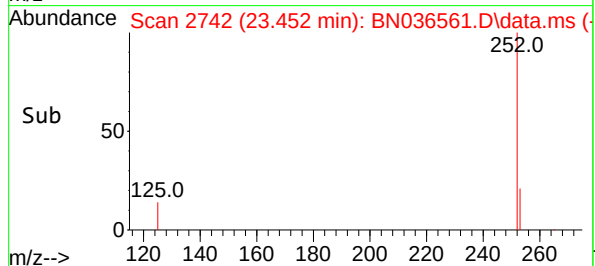
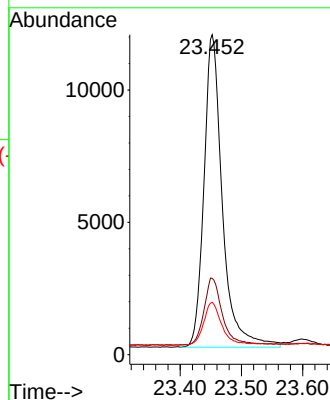
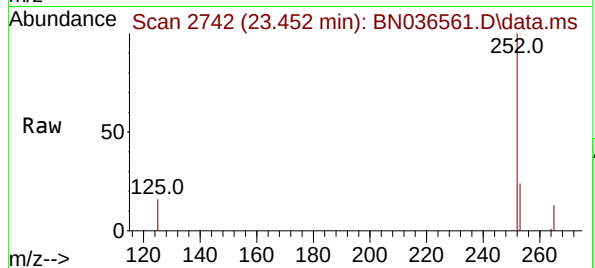
Tgt Ion:252 Resp: 24696

Ion Ratio Lower Upper

252 100

253 23.9 27.8 41.8#

125 16.3 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.569 ng

RT: 25.850 min Scan# 3562

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

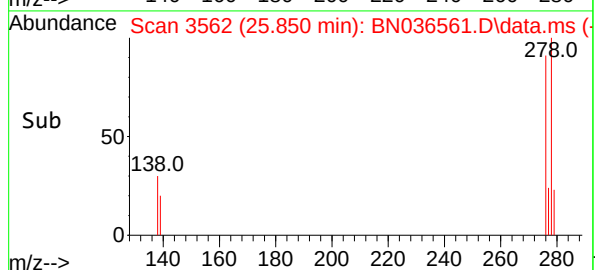
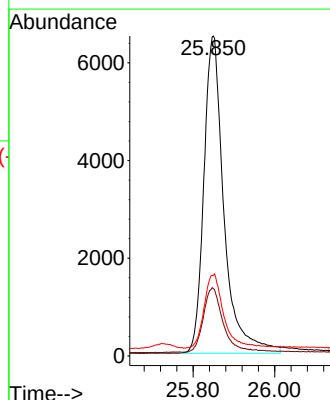
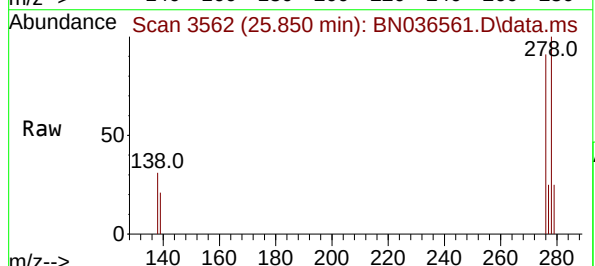
Tgt Ion:278 Resp: 22248

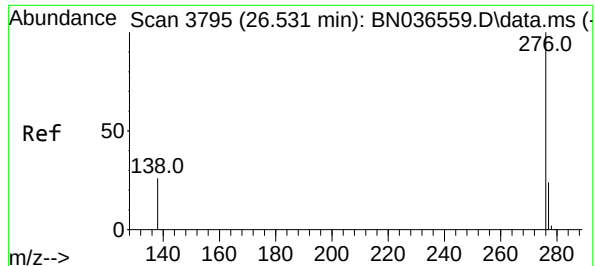
Ion Ratio Lower Upper

278 100

139 21.1 20.8 31.2

279 25.1 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 1.535 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036561.D

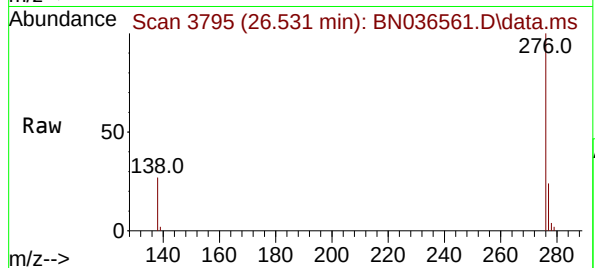
Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



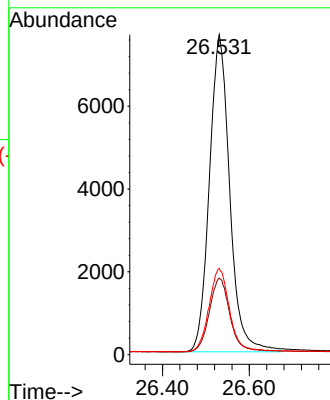
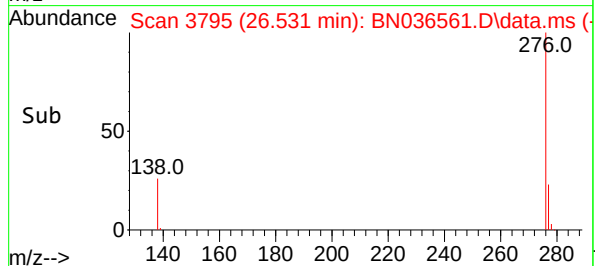
Tgt Ion:276 Resp: 24906

Ion Ratio Lower Upper

276 100

277 23.9 22.2 33.4

138 26.9 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036562.D
 Acq On : 10 Mar 2025 14:43
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

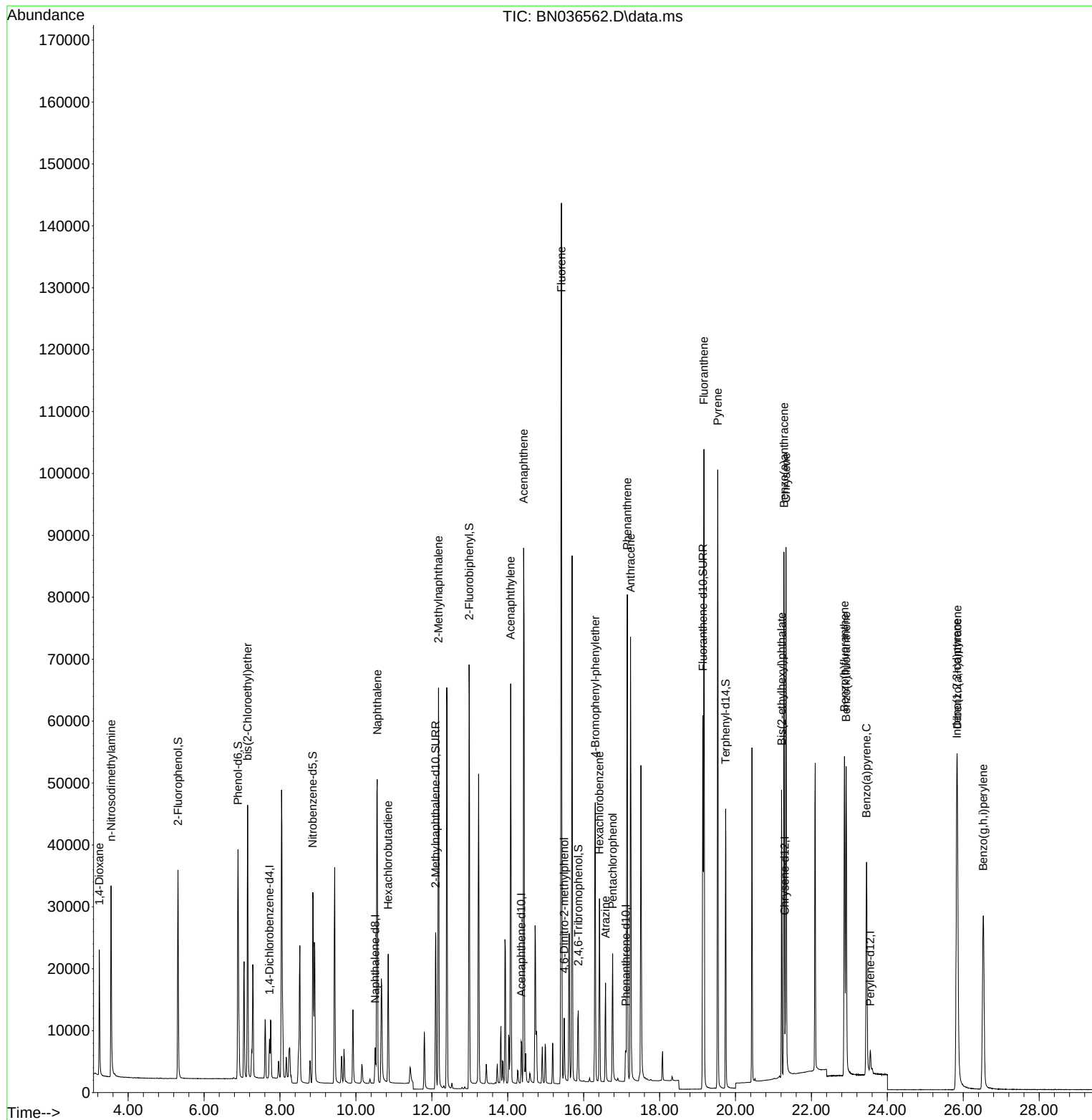
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng	0.00
35) Perylene-d12	23.551	264	5002	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	23032	3.420	ng	0.00
5) Phenol-d6	6.894	99	28996	3.485	ng	0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng	0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng	0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	10288	3.209	ng	97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	# 96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng	99
9) Naphthalene	10.562	128	66694	3.323	ng	96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	# 99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng	97
16) Acenaphthylene	14.077	152	65654	3.516	ng	99
17) Acenaphthene	14.420	154	42378	3.467	ng	97
18) Fluorene	15.414	166	56295	3.404	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	# 58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	# 82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng	100
23) Atrazine	16.577	200	12969	3.448	ng	# 90
24) Pentachlorophenol	16.764	266	9625	3.726	ng	99
25) Phenanthrene	17.148	178	77903	3.468	ng	99
26) Anthracene	17.235	178	72775	3.590	ng	99
28) Fluoranthene	19.169	202	86688	3.436	ng	99
30) Pyrene	19.531	202	86694	3.260	ng	100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng	99
33) Chrysene	21.331	228	70334	3.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng	98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	# 84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	# 83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	# 77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	# 84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng	94

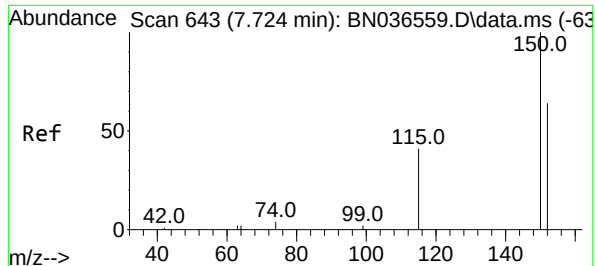
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

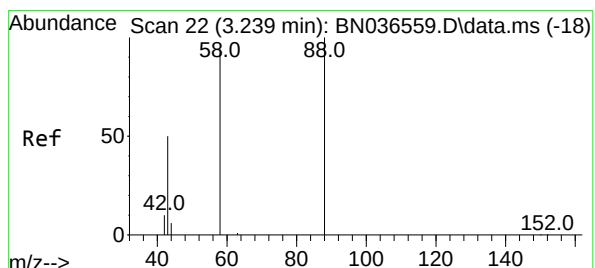
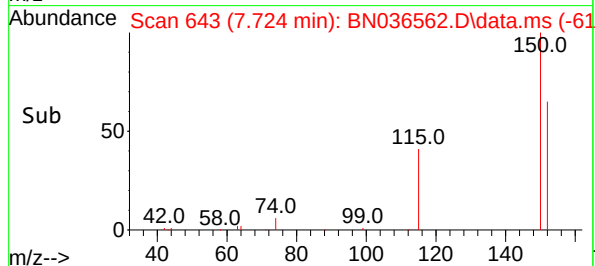
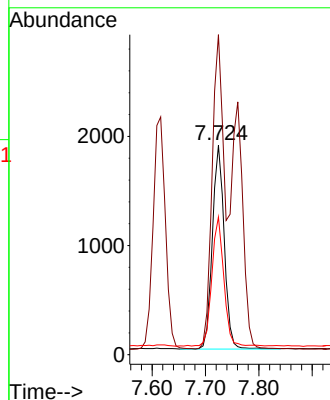
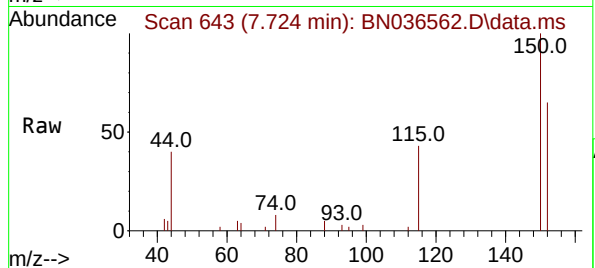




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

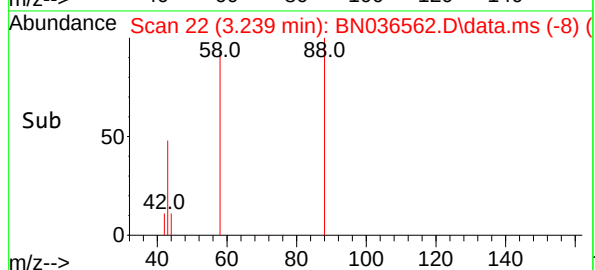
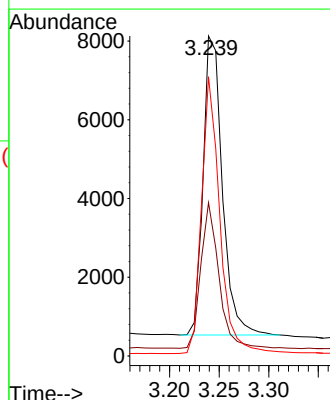
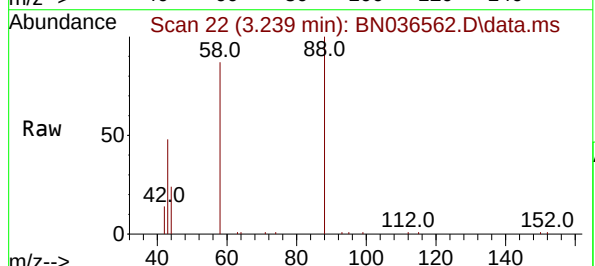
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

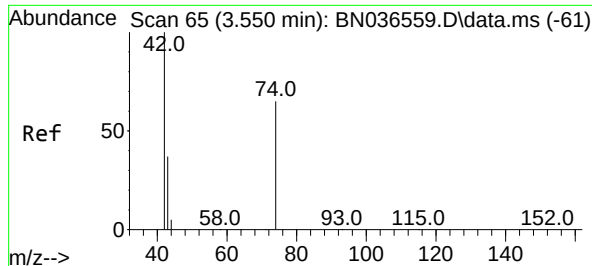
Tgt Ion:152 Resp: 2890
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 65.7 54.3 81.5



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288
Ion Ratio Lower Upper
88 100
43 45.2 37.8 56.8
58 87.2 67.4 101.2

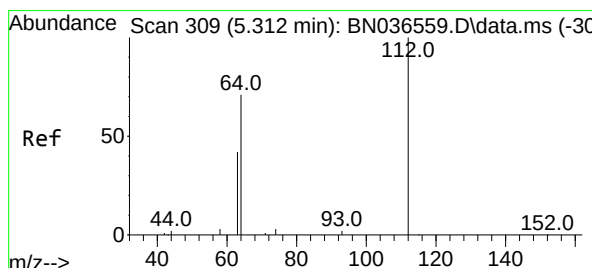
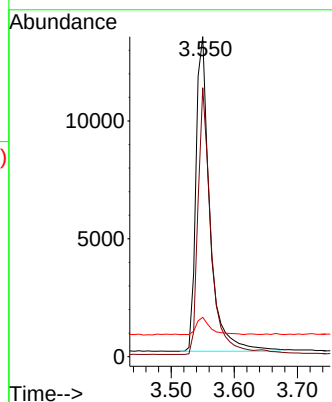
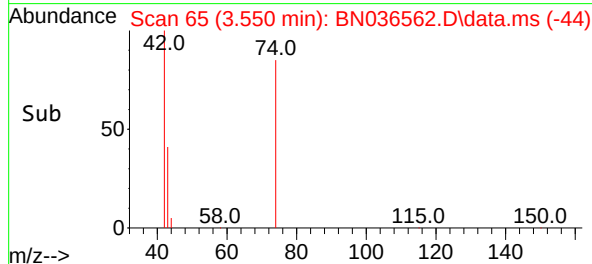
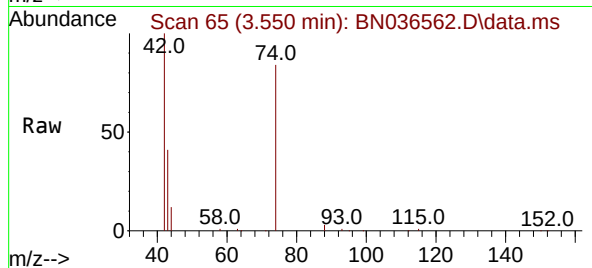




#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

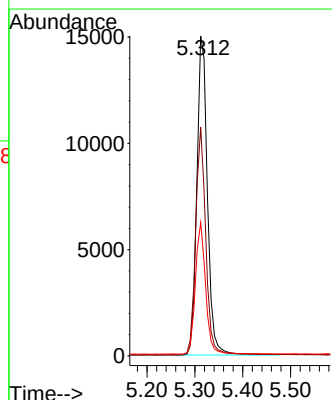
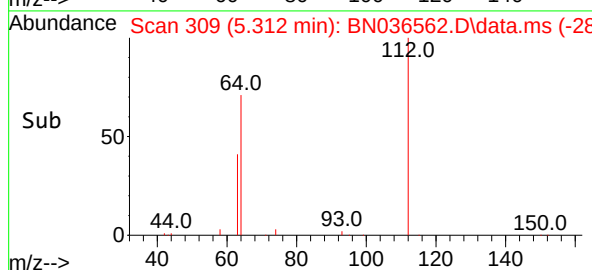
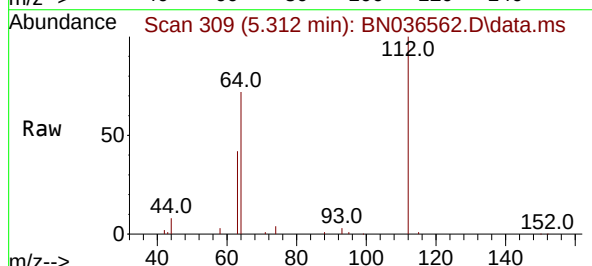
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

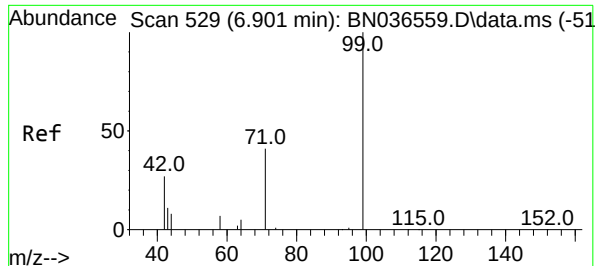
Tgt Ion: 42 Resp: 20412
Ion Ratio Lower Upper
42 100
74 78.8 60.6 90.8
44 5.5 6.3 9.5#



#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 112 Resp: 23032
Ion Ratio Lower Upper
112 100
64 68.4 53.1 79.7
63 39.8 31.8 47.8

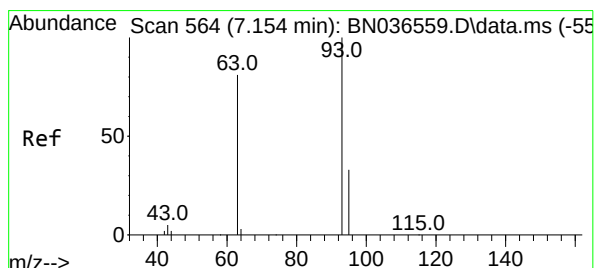
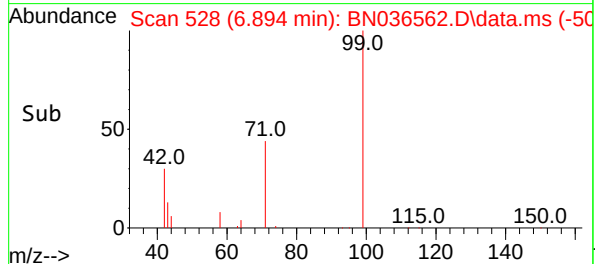
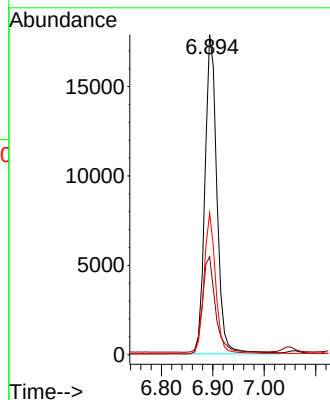
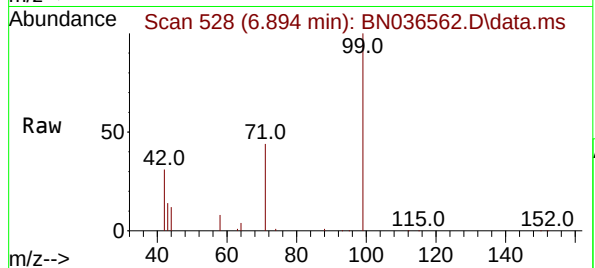




#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

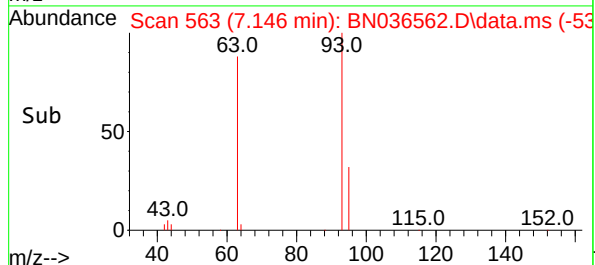
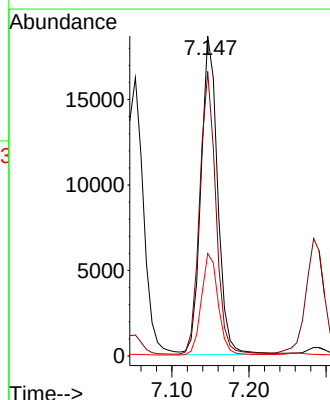
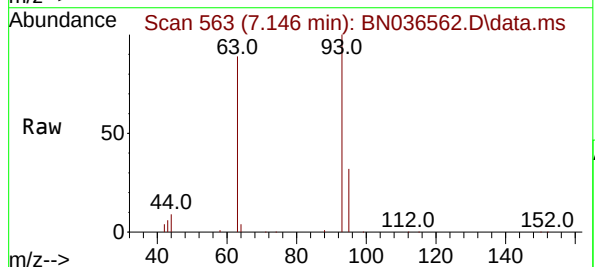
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

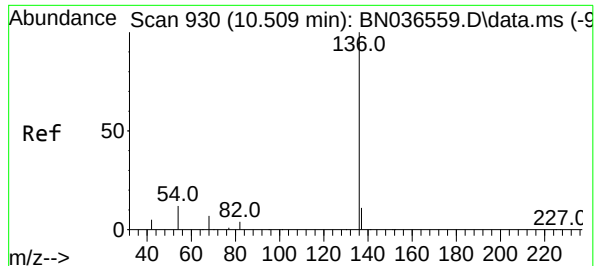
Tgt Ion: 99 Resp: 28996
Ion Ratio Lower Upper
99 100
42 32.3 26.5 39.7
71 43.2 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978
Ion Ratio Lower Upper
93 100
63 85.7 67.7 101.5
95 32.0 25.6 38.4

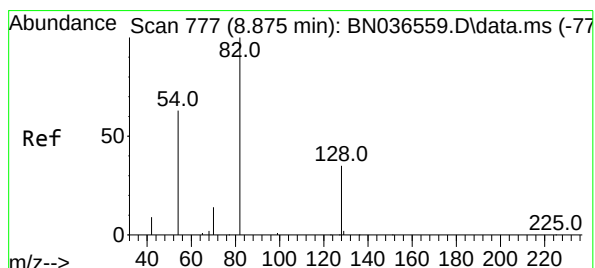
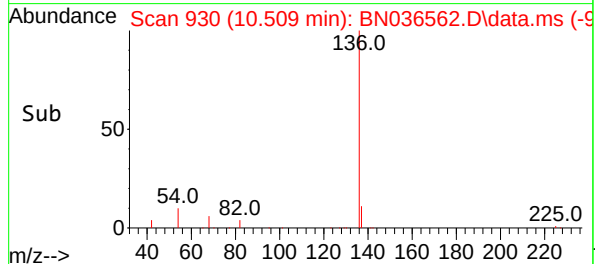
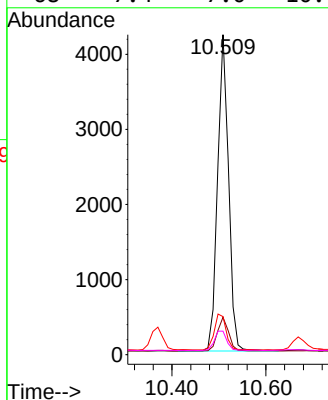
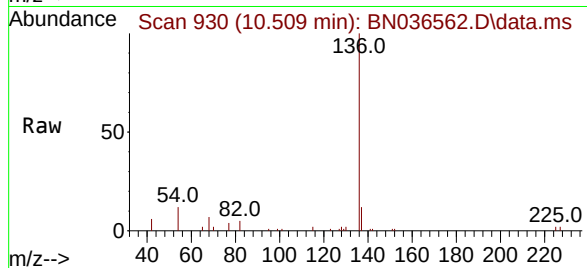




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

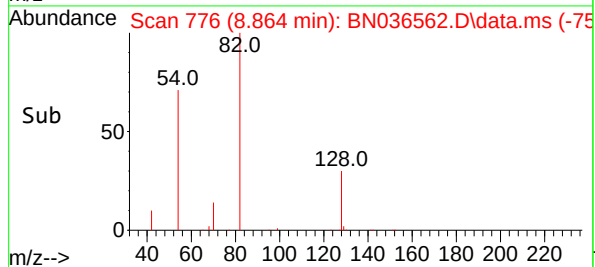
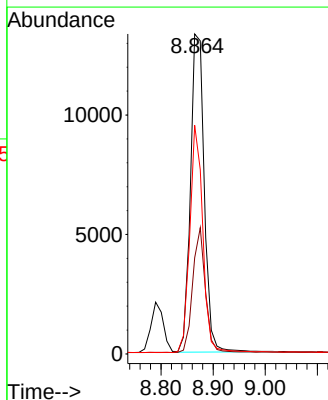
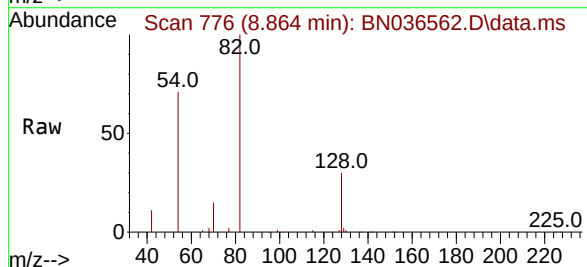
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

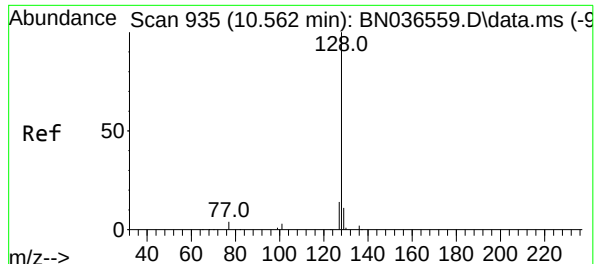
Tgt Ion:	136	Resp:	6824
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:	82	Resp:	24586
Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4

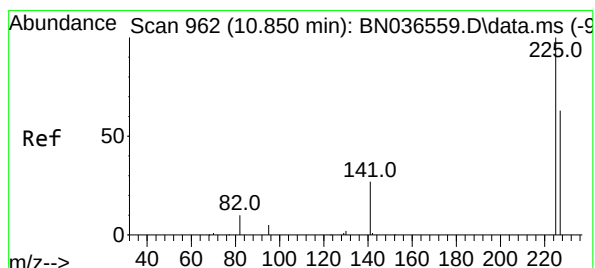
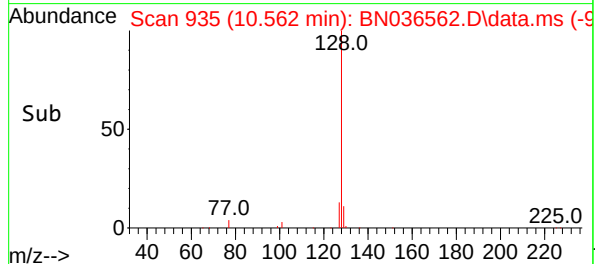
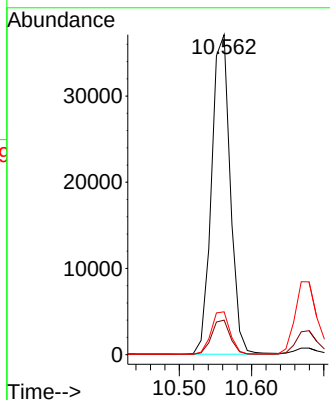
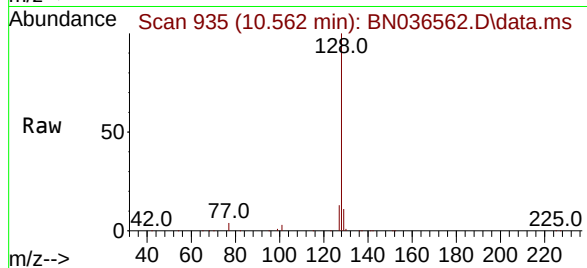




#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

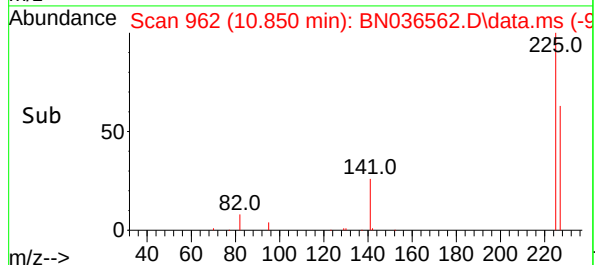
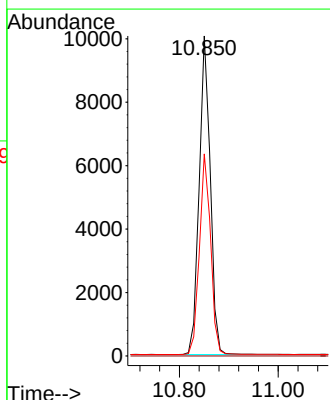
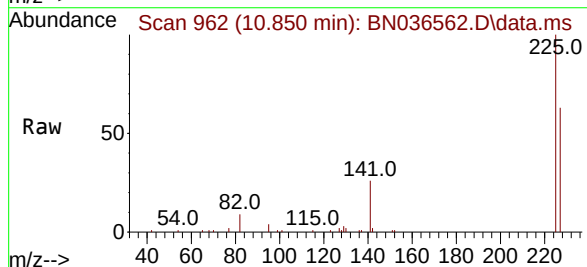
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

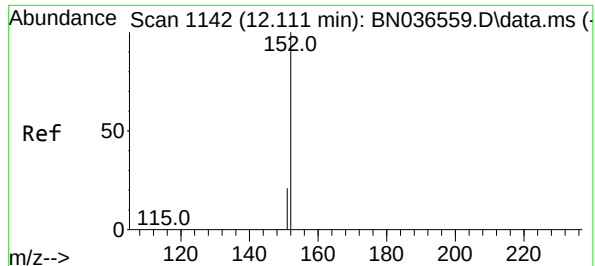
Tgt Ion:128 Resp: 66694
Ion Ratio Lower Upper
128 100
129 10.8 9.8 14.6
127 13.4 11.8 17.8



#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:225 Resp: 15618
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.8 77.8

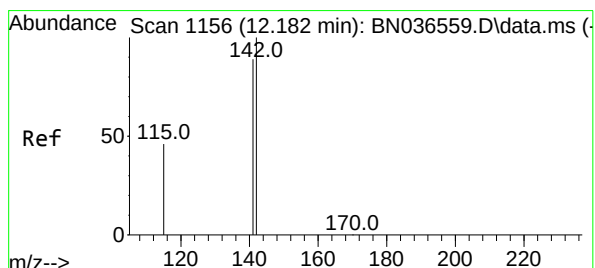
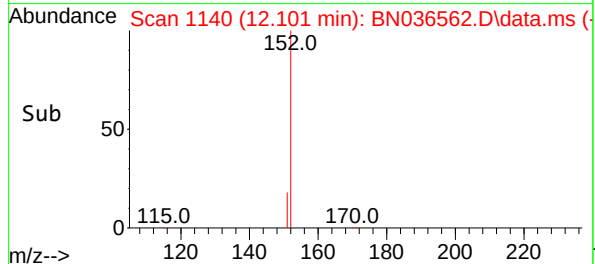
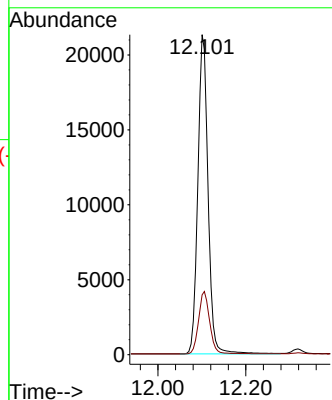
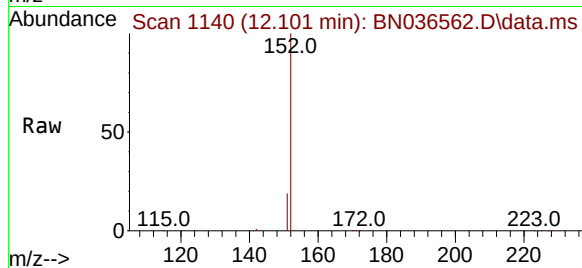




#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

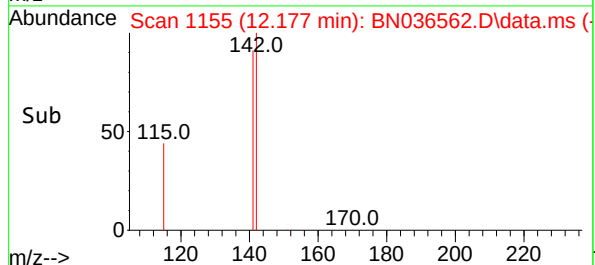
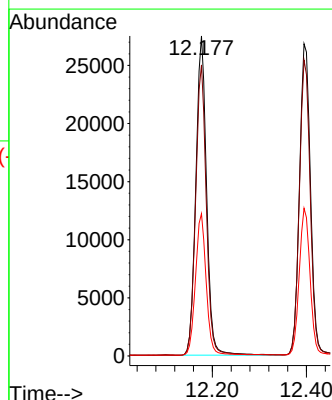
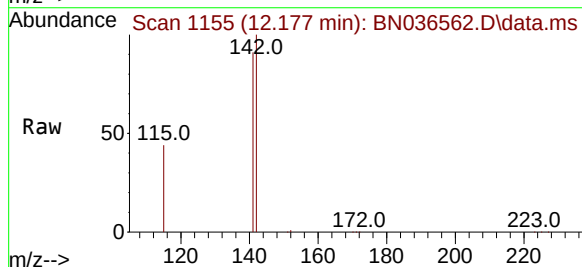
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

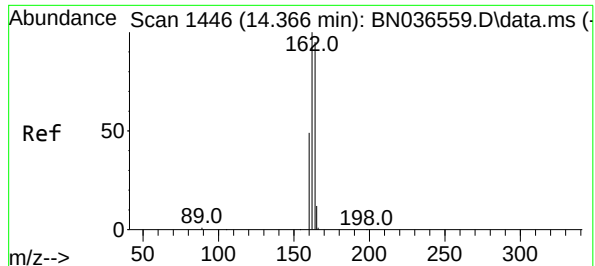
Tgt Ion:152 Resp: 34578
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 44.5 38.3 57.5

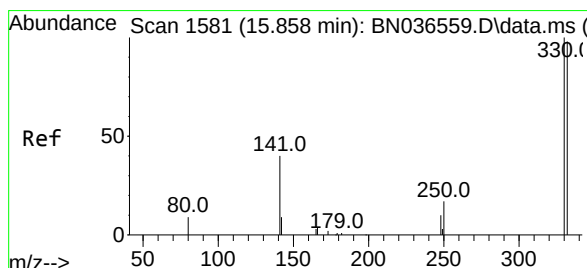
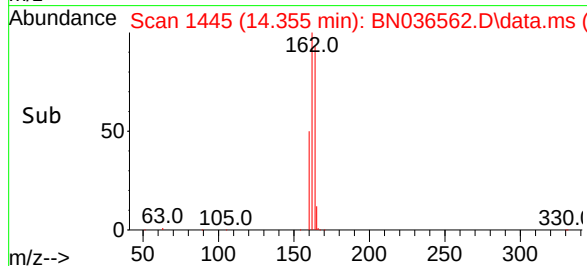
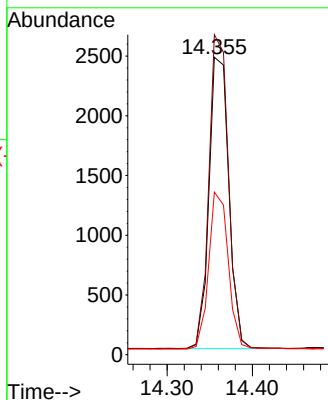
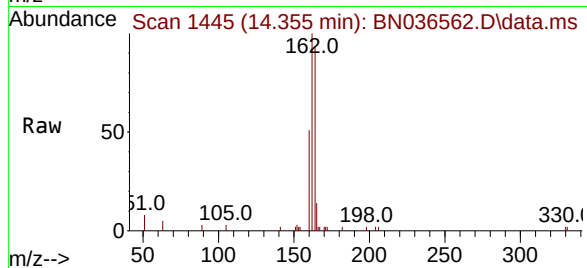




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

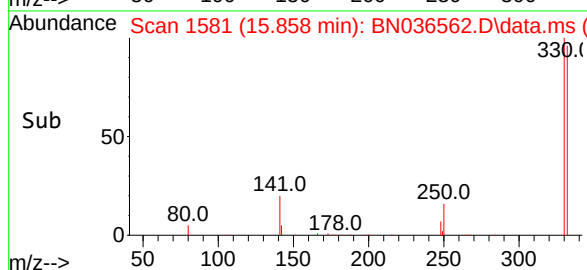
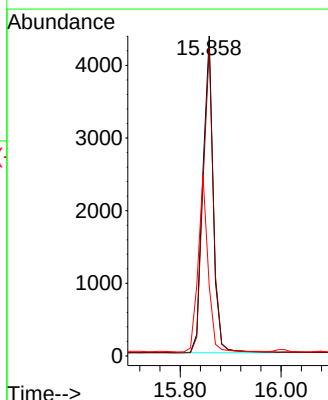
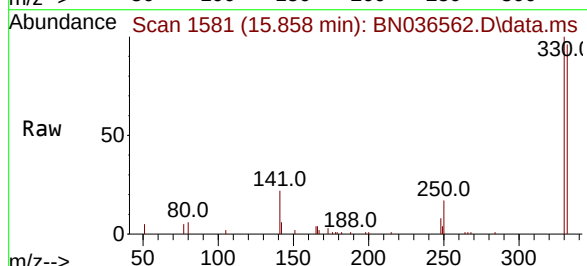
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

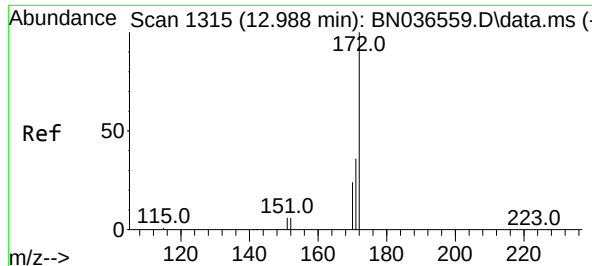
Tgt Ion:164 Resp: 3957
Ion Ratio Lower Upper
164 100
162 107.6 84.2 126.2
160 54.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 53.7 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 3.529 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

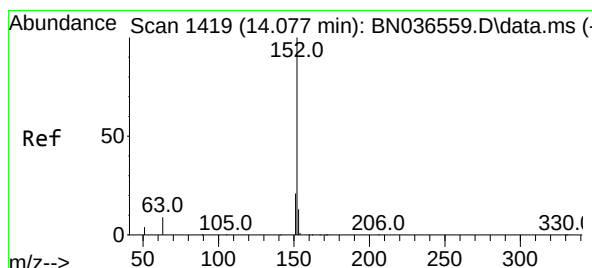
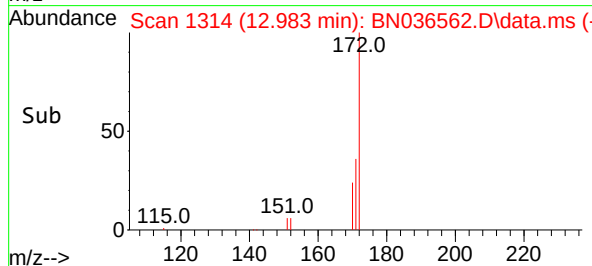
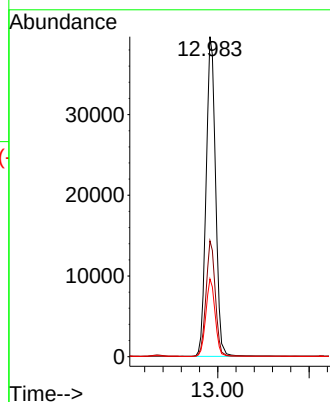
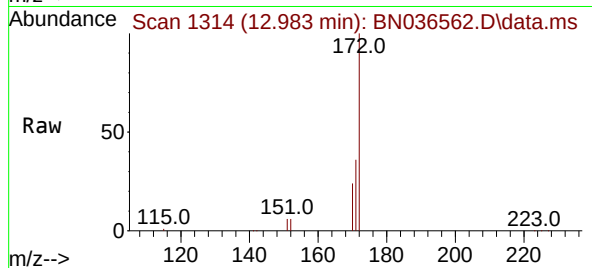
Tgt Ion:172 Resp: 81236

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 3.516 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

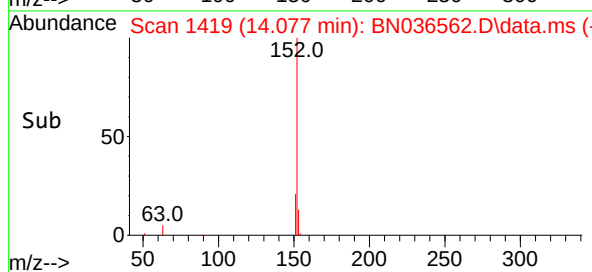
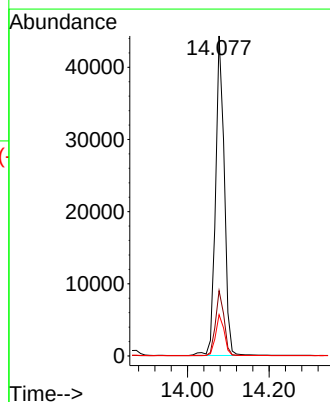
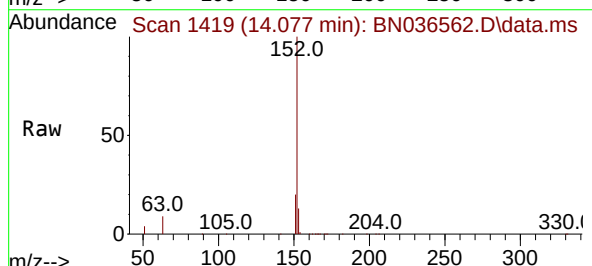
Tgt Ion:152 Resp: 65654

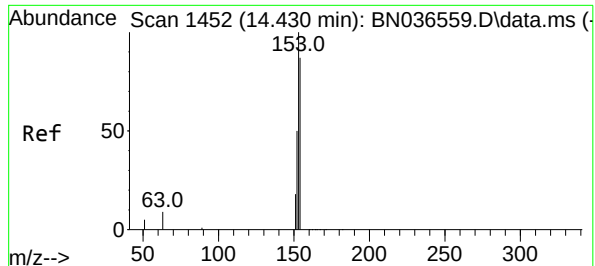
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

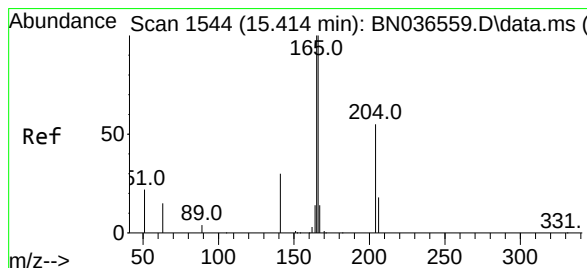
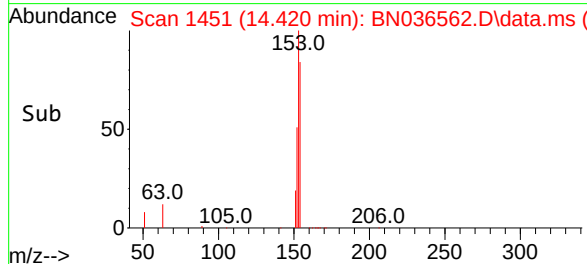
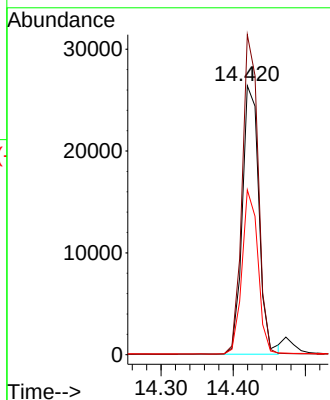
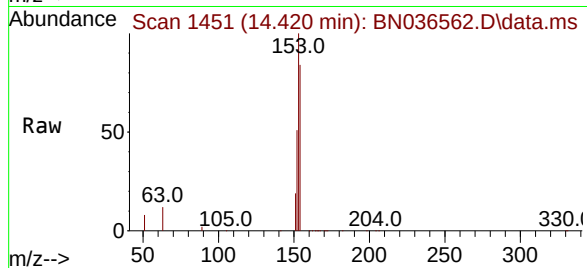




#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

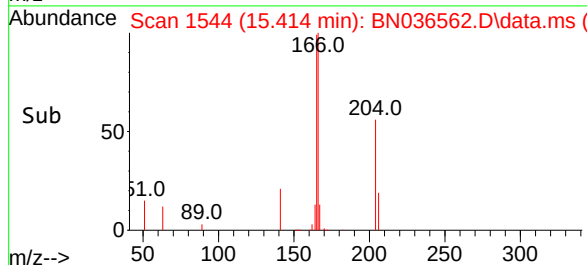
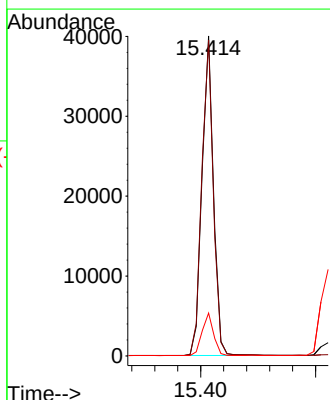
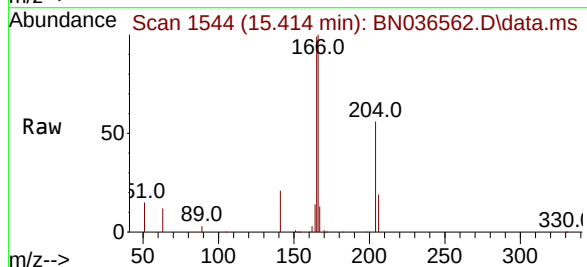
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

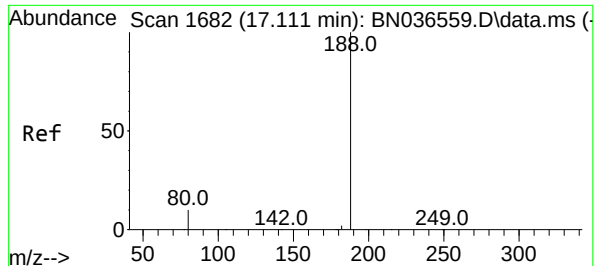
Tgt Ion:154 Resp: 42378
Ion Ratio Lower Upper
154 100
153 114.6 94.1 141.1
152 58.9 49.8 74.6



#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

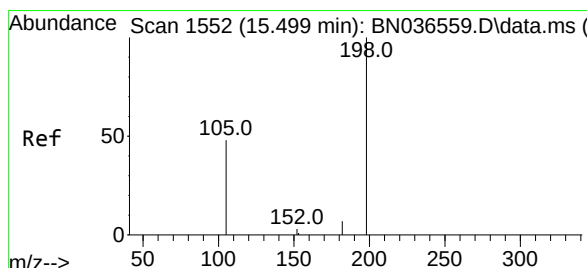
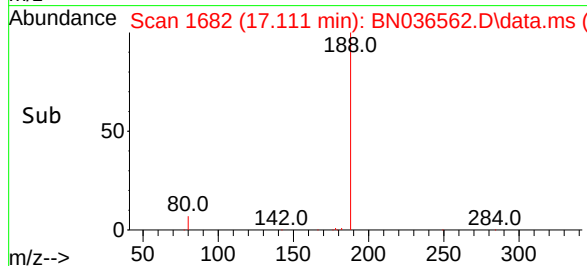
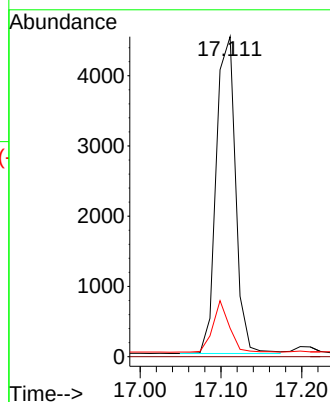
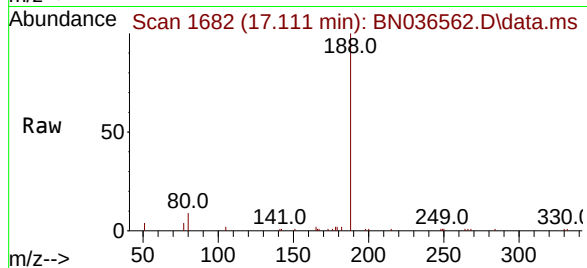
Tgt Ion:188 Resp: 7488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 3.315 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

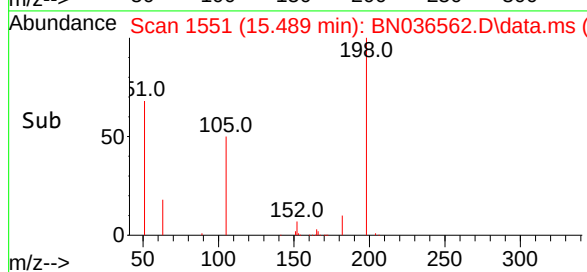
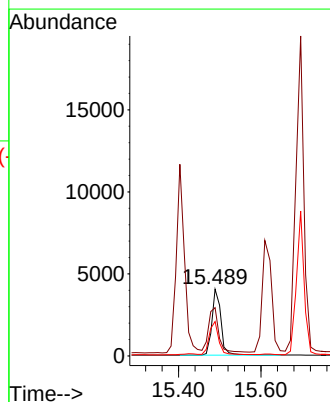
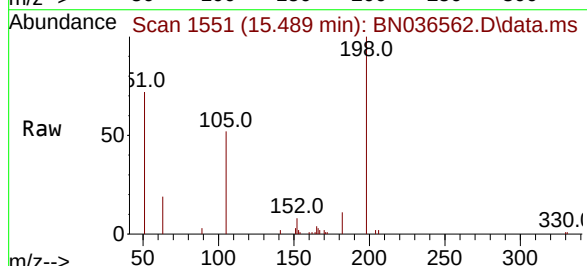
Tgt Ion:198 Resp: 6567

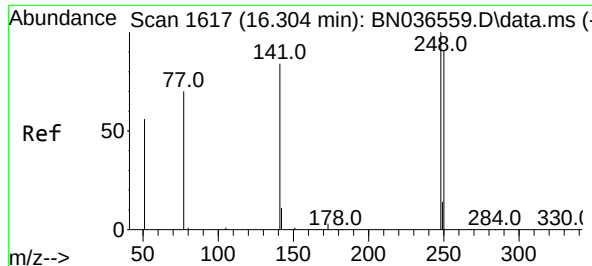
Ion Ratio Lower Upper

198 100

51 72.3 107.9 161.9#

105 51.5 56.2 84.2#

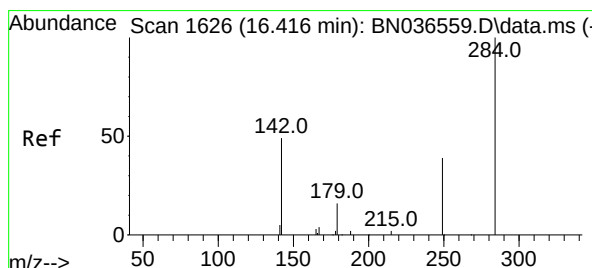
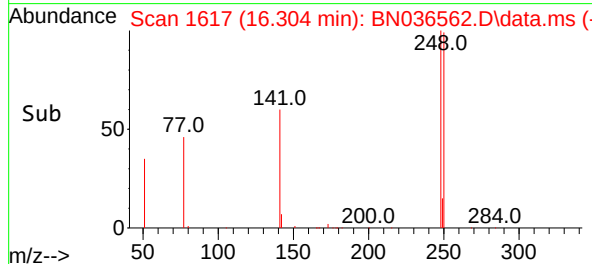
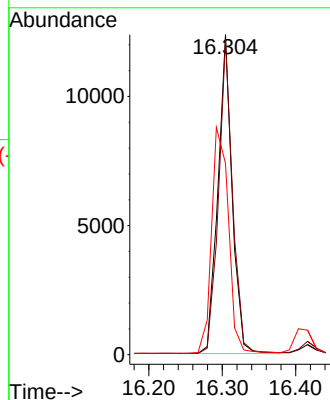
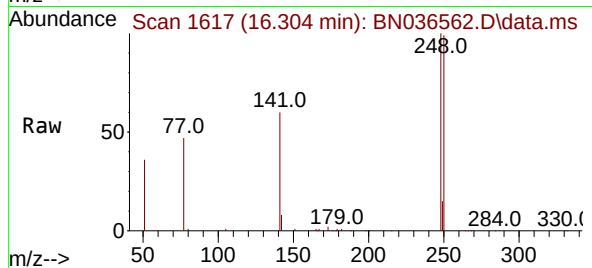




#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

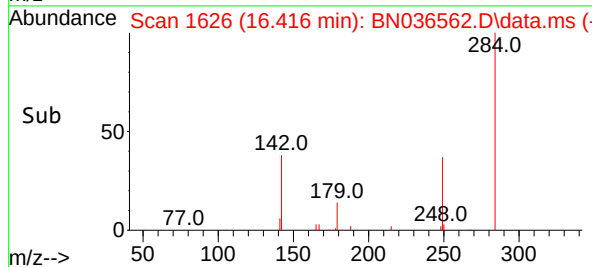
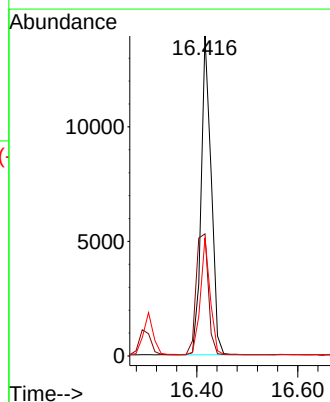
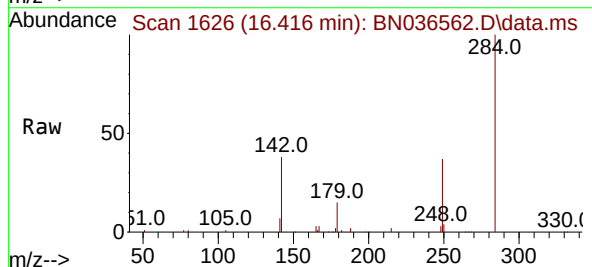
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

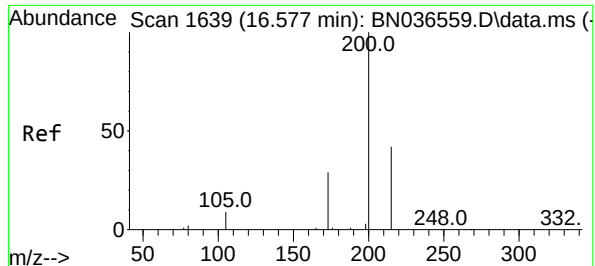
Tgt Ion:248 Resp: 16652
Ion Ratio Lower Upper
248 100
250 98.6 73.0 109.6
141 59.8 68.6 103.0#



#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:284 Resp: 19287
Ion Ratio Lower Upper
284 100
142 46.2 37.0 55.4
249 35.5 28.1 42.1

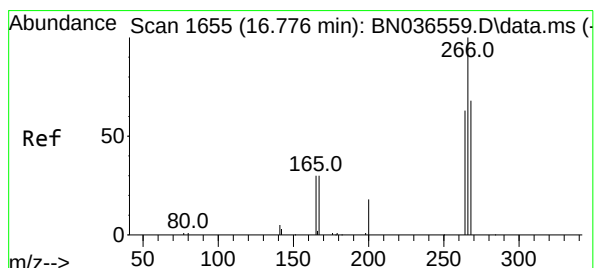
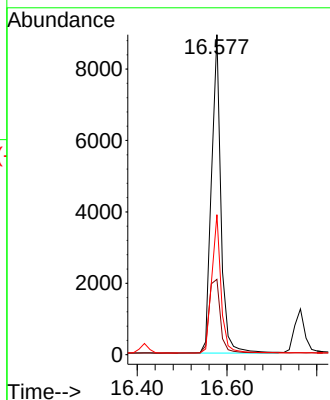
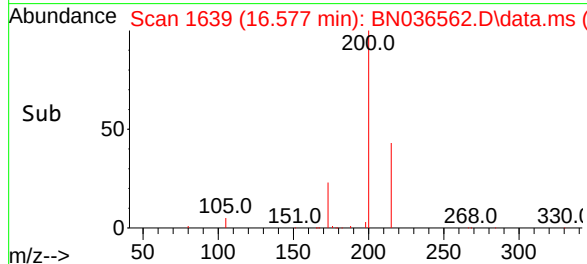
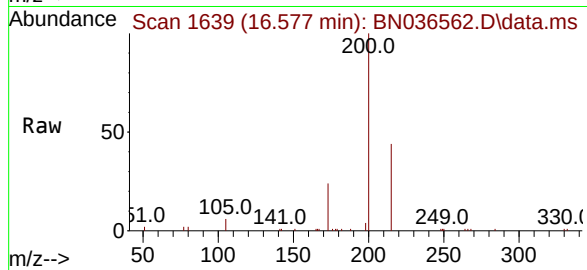




#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

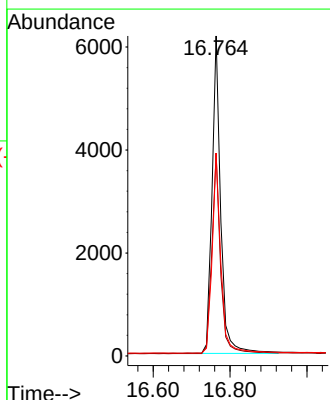
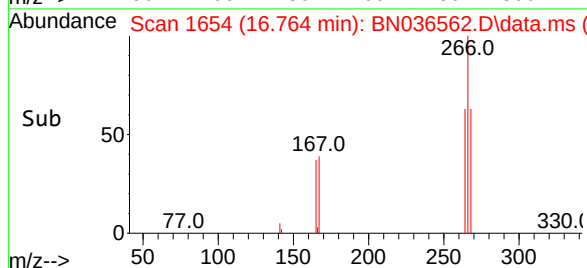
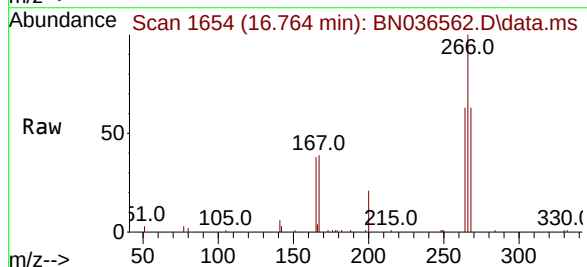
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

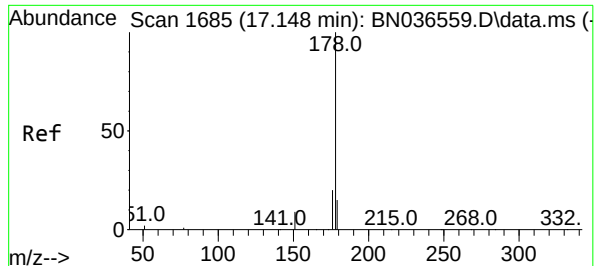
Tgt Ion:200 Resp: 12969
Ion Ratio Lower Upper
200 100
173 23.6 27.3 40.9#
215 43.7 36.8 55.2



#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:266 Resp: 9625
Ion Ratio Lower Upper
266 100
264 63.1 49.6 74.4
268 63.1 50.9 76.3





#25

Phenanthrene

Concen: 3.468 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

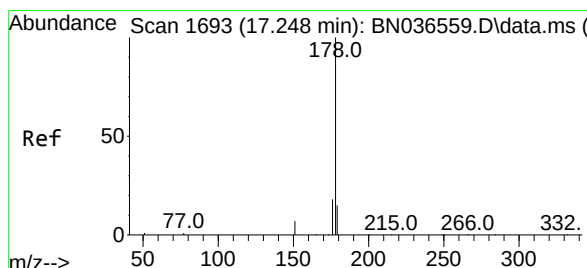
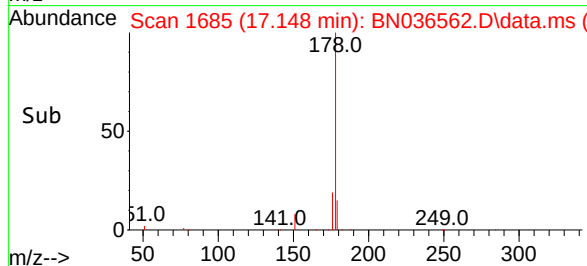
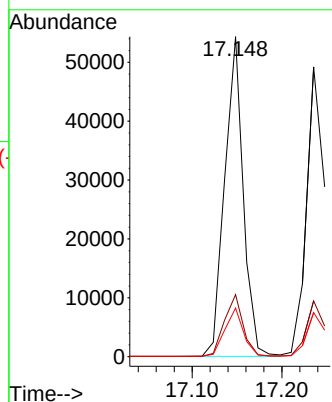
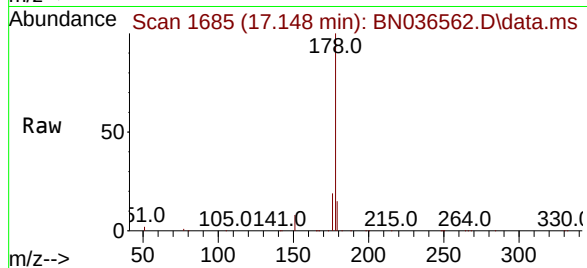
Tgt Ion:178 Resp: 77903

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 3.590 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

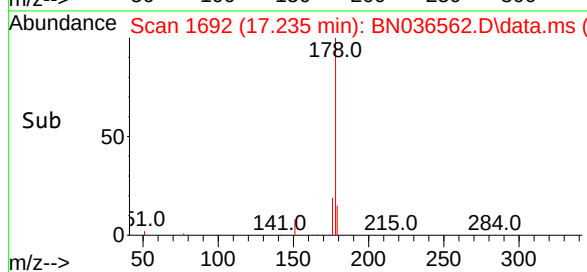
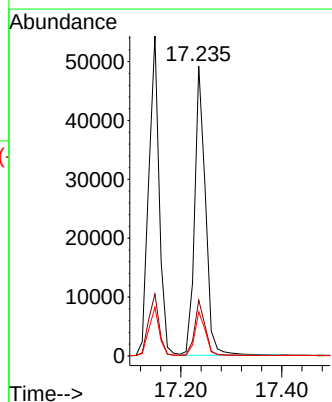
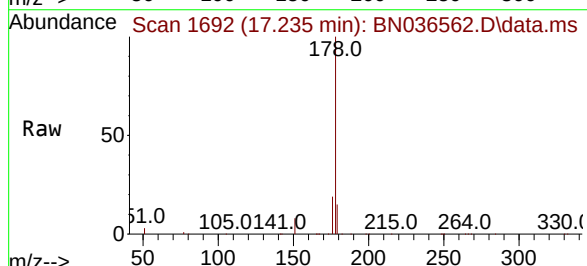
Tgt Ion:178 Resp: 72775

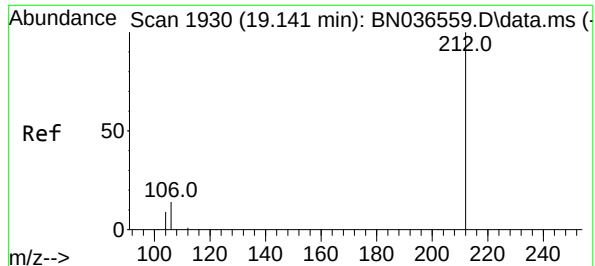
Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 3.394 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

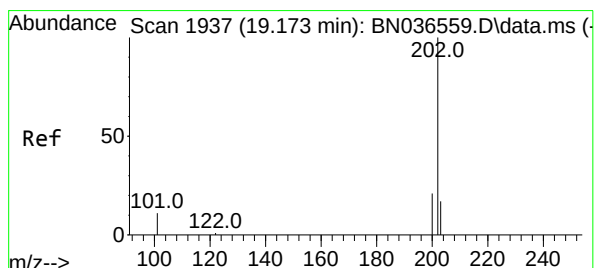
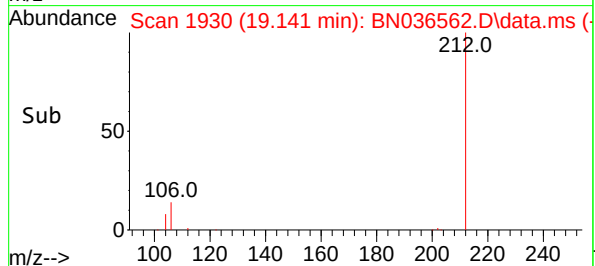
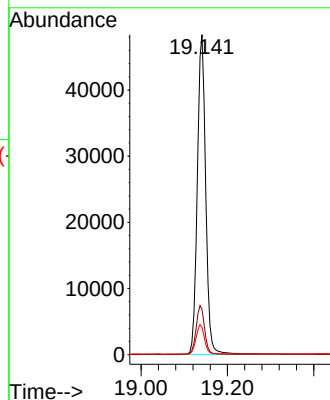
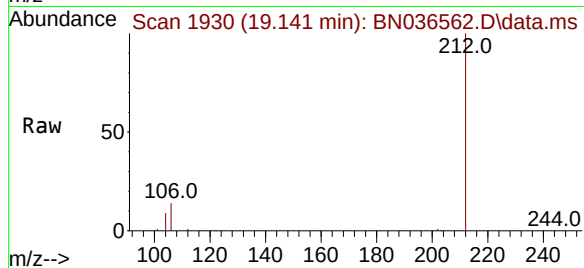
Tgt Ion:212 Resp: 65134

Ion Ratio Lower Upper

212 100

106 15.4 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 3.436 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

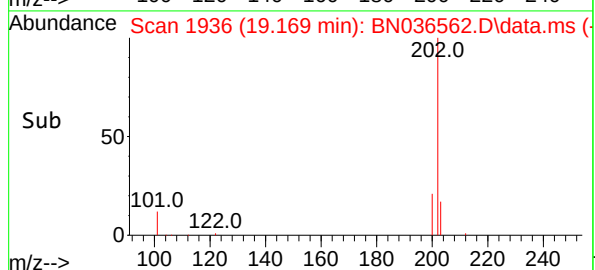
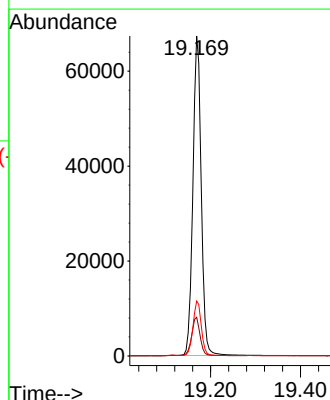
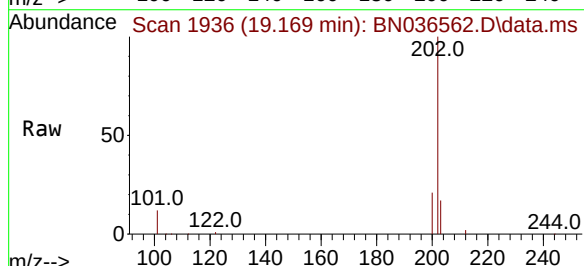
Tgt Ion:202 Resp: 86688

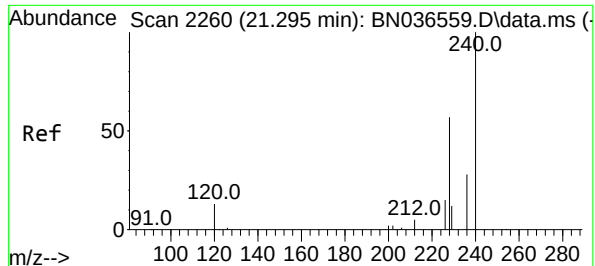
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

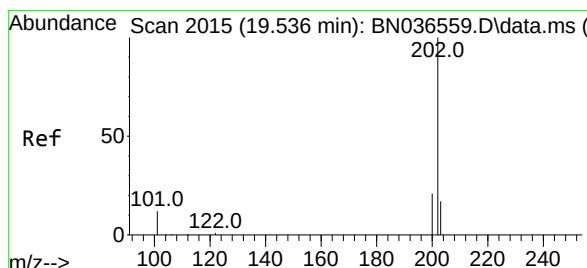
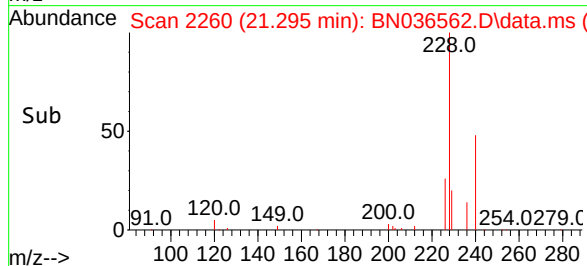
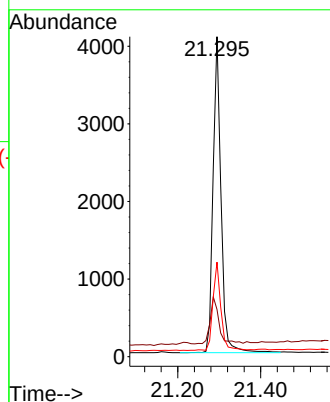
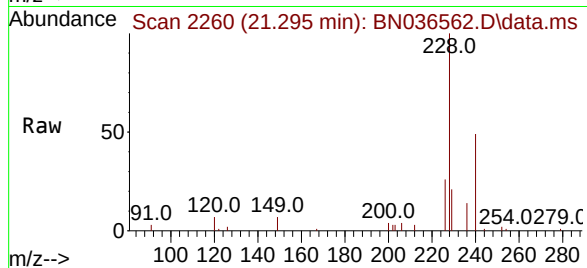
Tgt Ion:240 Resp: 5439

Ion Ratio Lower Upper

240 100

120 14.8 14.6 22.0

236 29.5 24.1 36.1



#30

Pyrene

Concen: 3.260 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

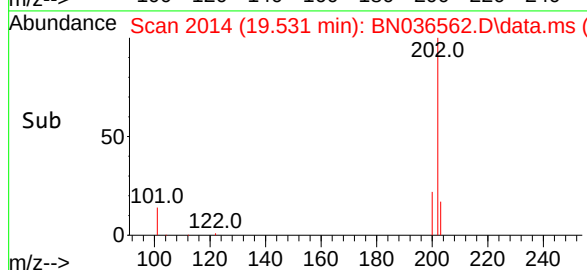
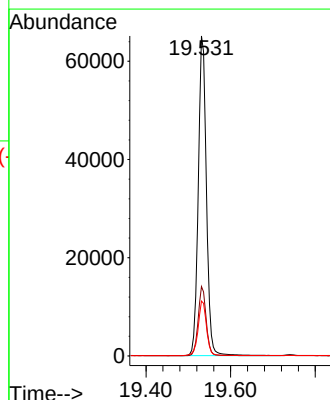
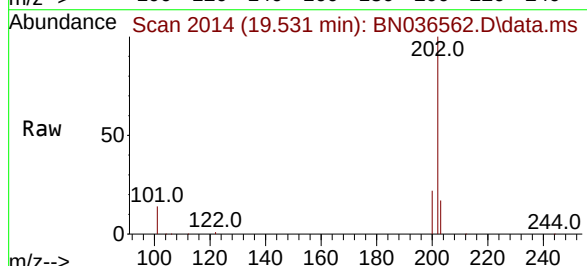
Tgt Ion:202 Resp: 86694

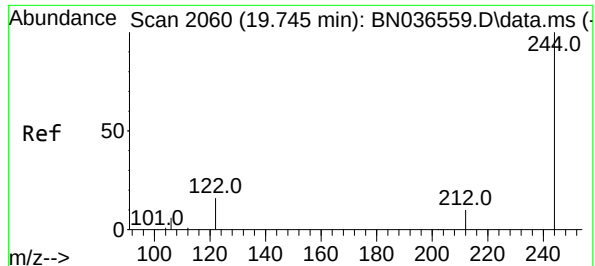
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

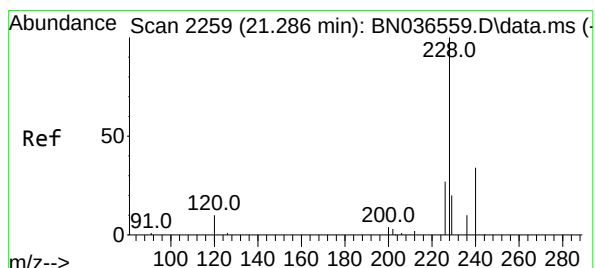
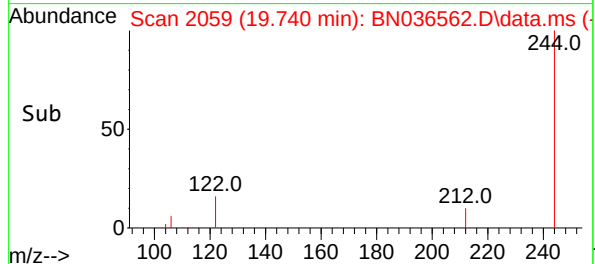
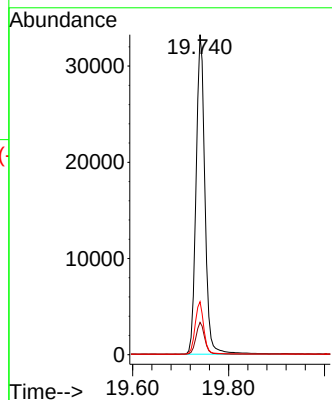
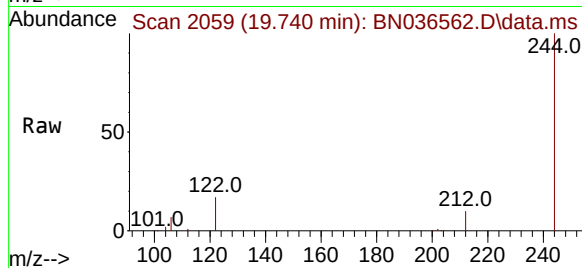




#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

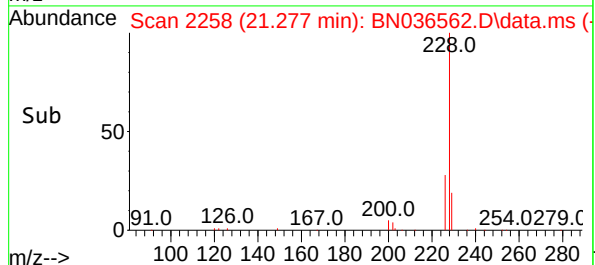
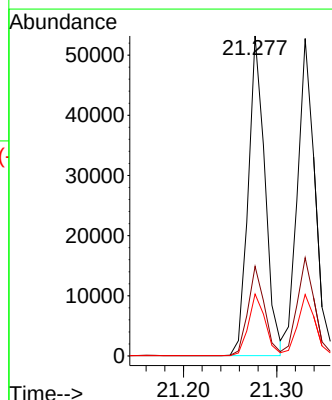
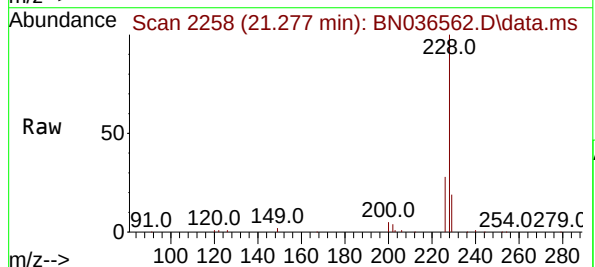
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

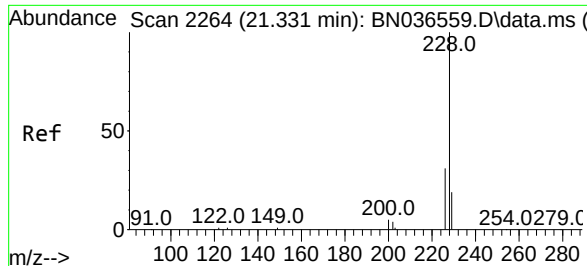
Tgt Ion:244 Resp: 42959
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 16.6 13.9 20.9



#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 16.6 25.0





#33

Chrysene

Concen: 3.403 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

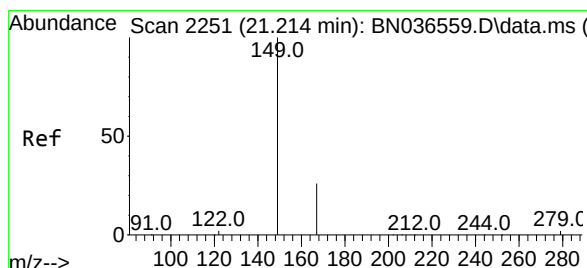
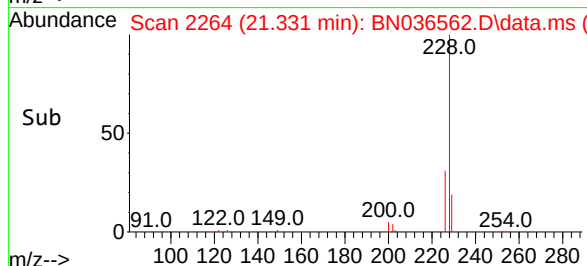
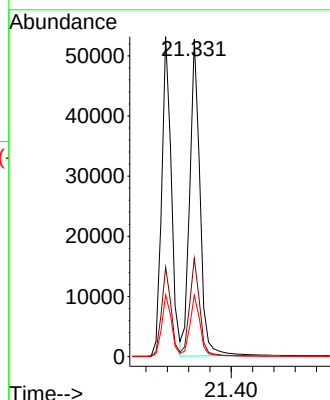
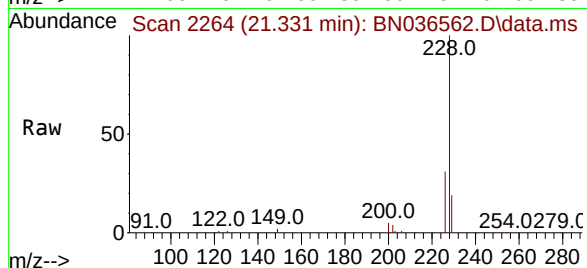
Tgt Ion:228 Resp: 70334

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.947 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

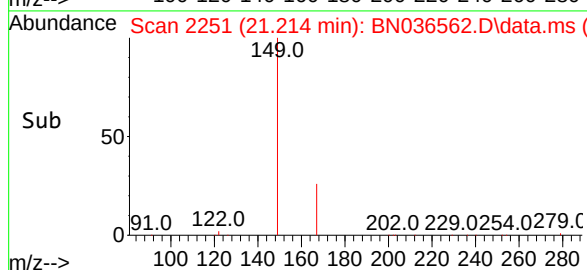
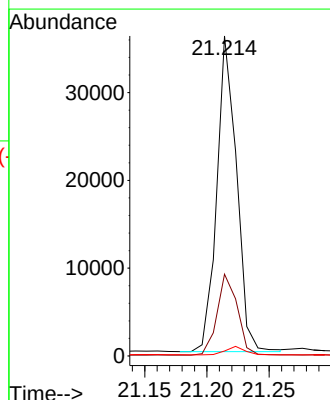
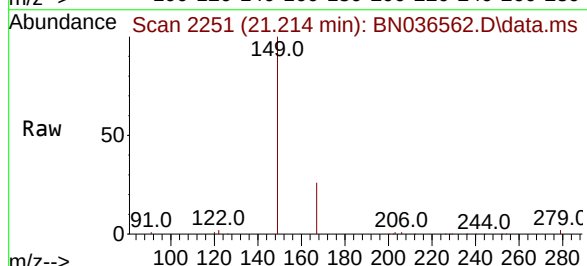
Tgt Ion:149 Resp: 39682

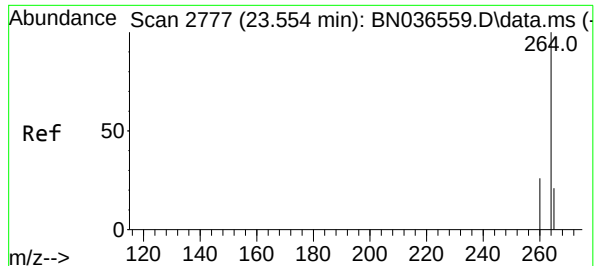
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

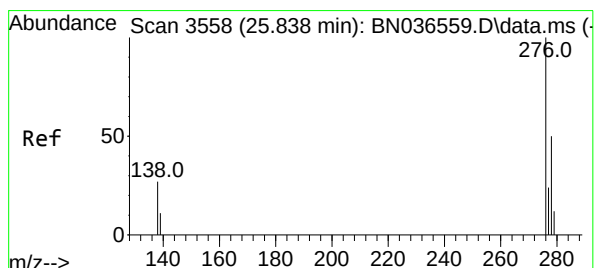
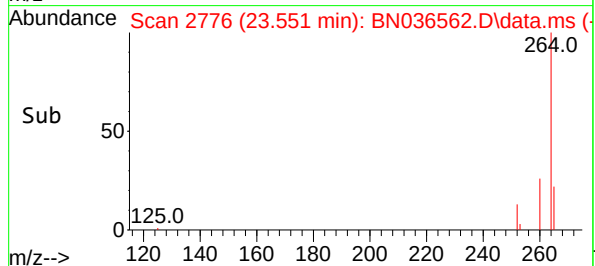
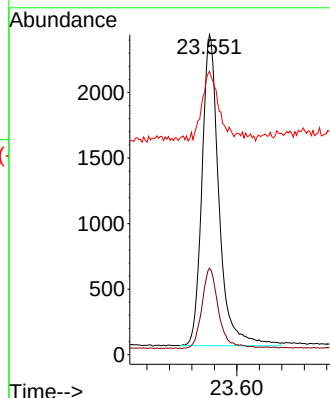
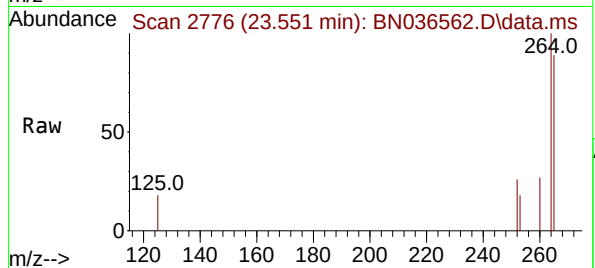
Tgt Ion:264 Resp: 5002

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 88.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.754 ng

RT: 25.829 min Scan# 3555

Delta R.T. -0.009 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

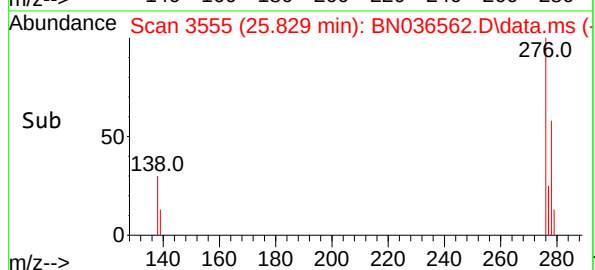
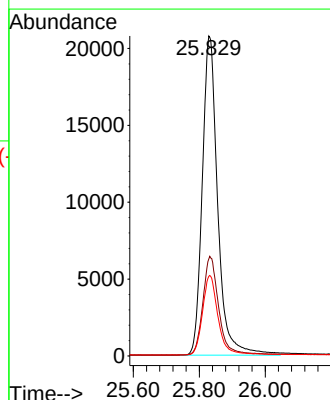
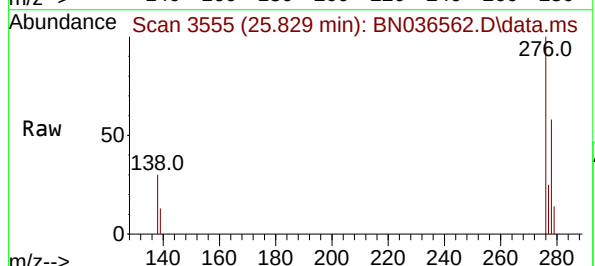
Tgt Ion:276 Resp: 67767

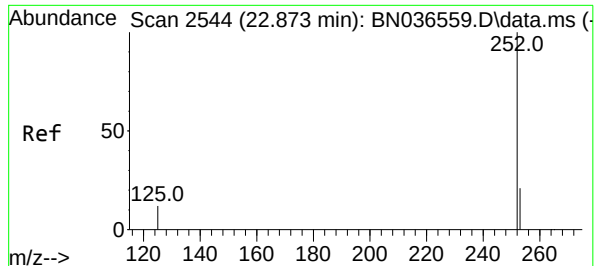
Ion Ratio Lower Upper

276 100

138 31.3 23.4 35.2

277 24.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.506 ng

RT: 22.870 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

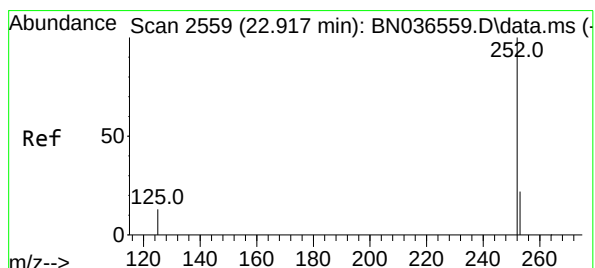
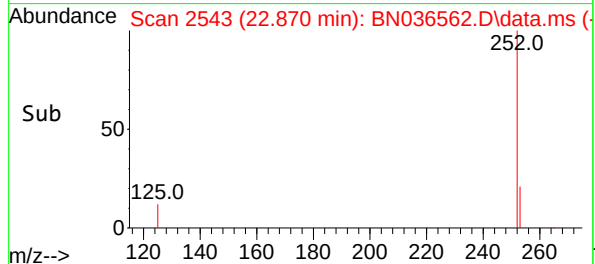
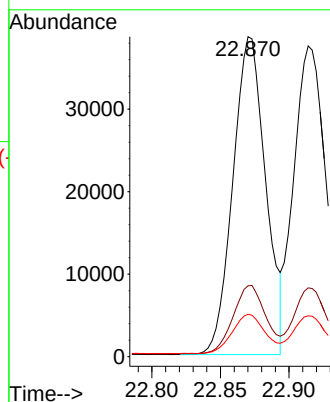
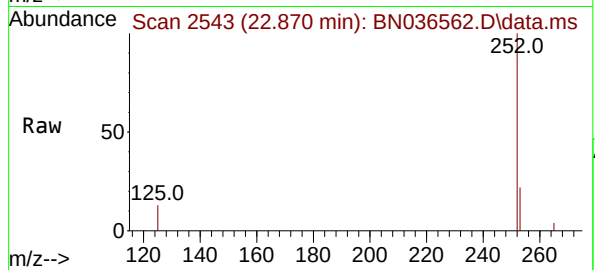
Tgt Ion:252 Resp: 63823

Ion Ratio Lower Upper

252 100

253 22.2 23.9 35.9#

125 13.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

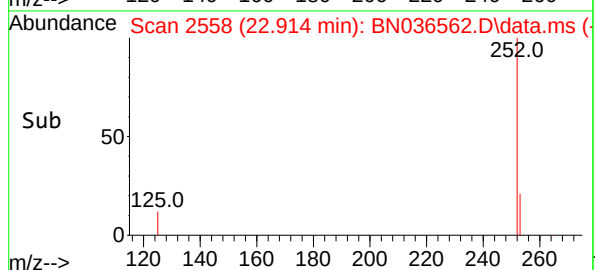
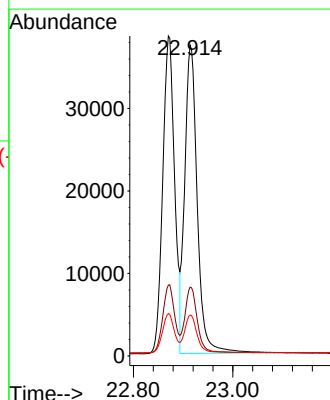
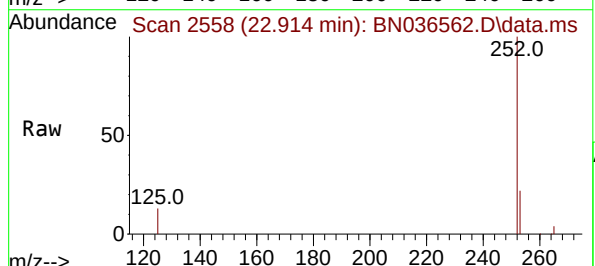
Tgt Ion:252 Resp: 65410

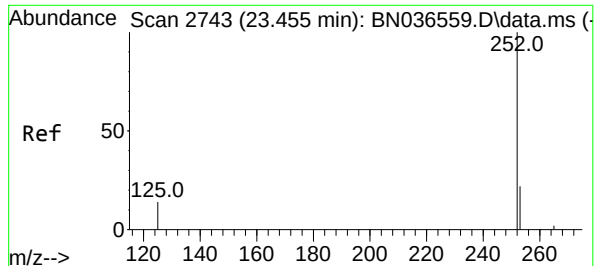
Ion Ratio Lower Upper

252 100

253 22.1 24.6 36.8#

125 13.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 3.523 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

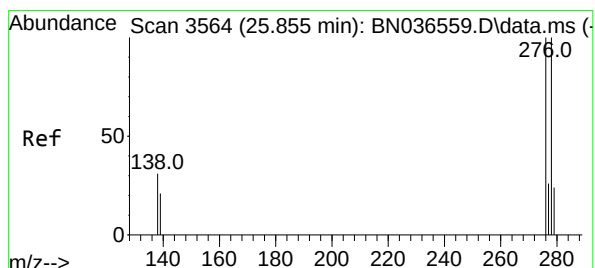
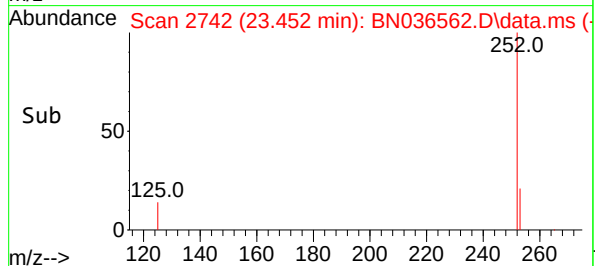
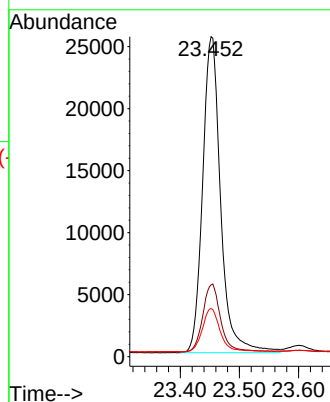
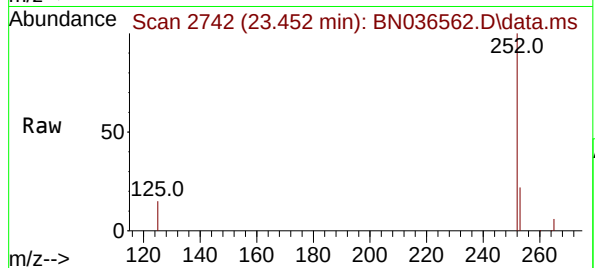
Tgt Ion:252 Resp: 54009

Ion Ratio Lower Upper

252 100

253 22.4 27.8 41.8#

125 15.1 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.846 ng

RT: 25.843 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

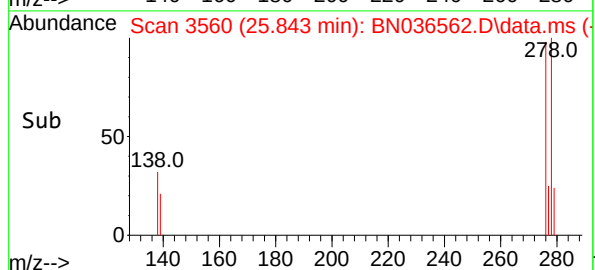
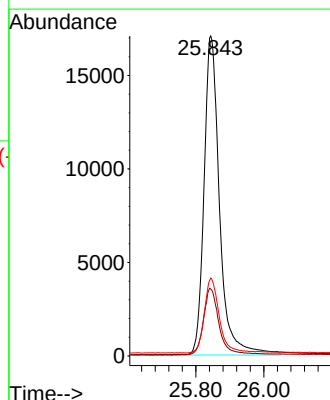
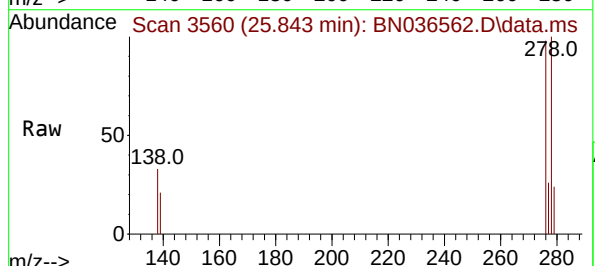
Tgt Ion:278 Resp: 54058

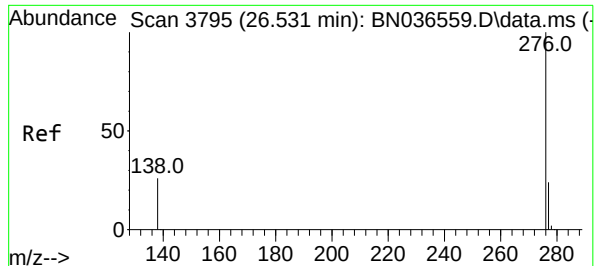
Ion Ratio Lower Upper

278 100

139 20.9 20.8 31.2

279 24.4 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 3.606 ng

RT: 26.528 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036562.D

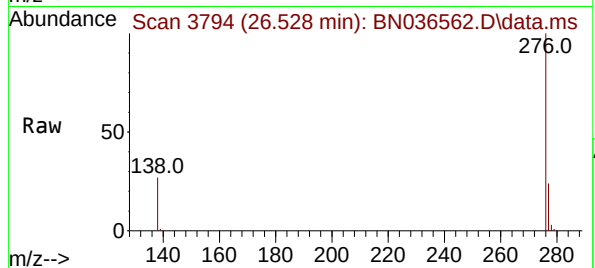
Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



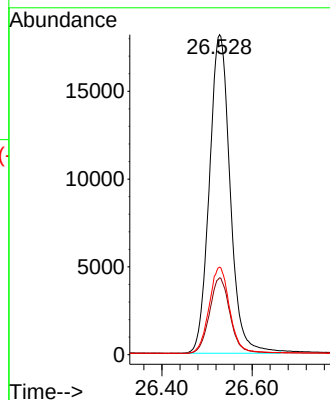
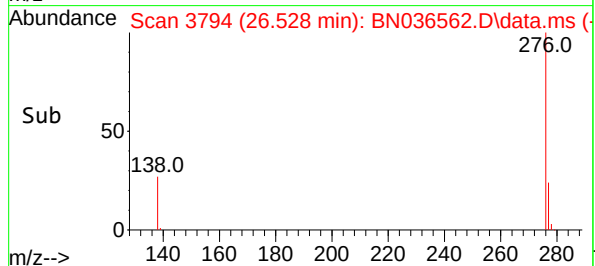
Tgt Ion:276 Resp: 57986

Ion Ratio Lower Upper

276 100

277 24.0 22.2 33.4

138 27.4 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036563.D
 Acq On : 10 Mar 2025 15:19
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

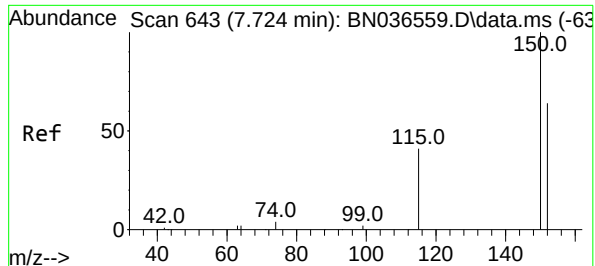
Quant Time: Mar 10 16:03:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

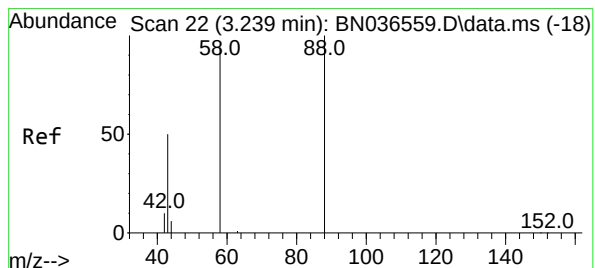
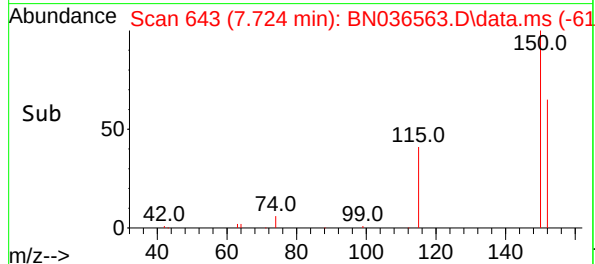
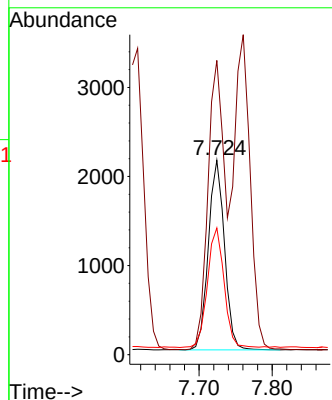
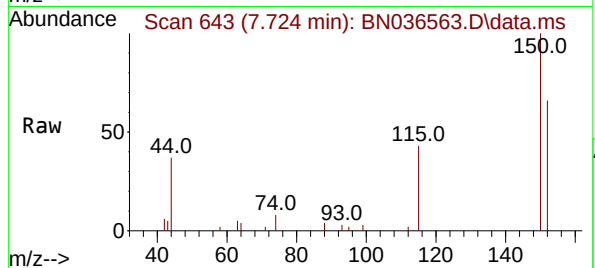
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- 2
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- 14
- 15
- 16
- 17
- 18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

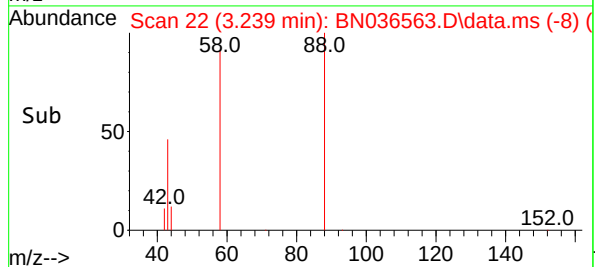
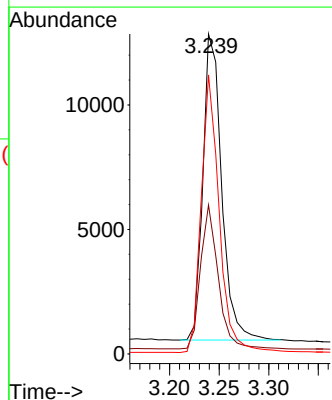
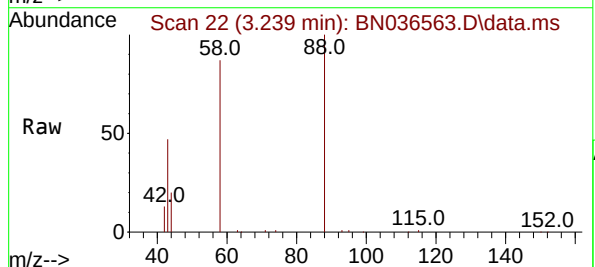
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

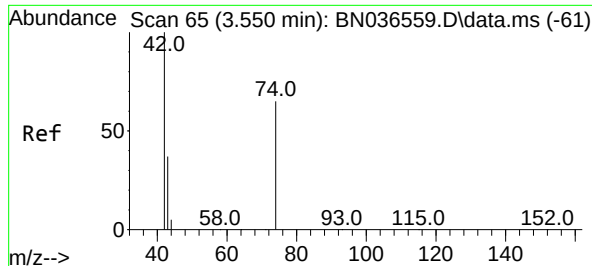
Tgt Ion:152 Resp: 3261
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 65.2 54.3 81.5



#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253
Ion Ratio Lower Upper
88 100
43 44.3 37.8 56.8
58 86.4 67.4 101.2

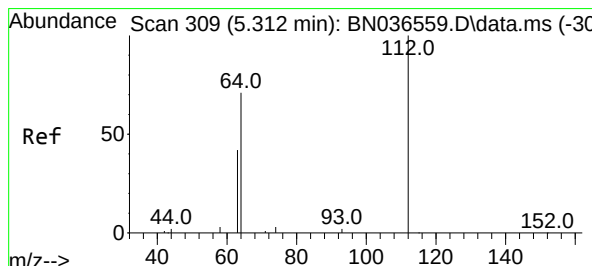
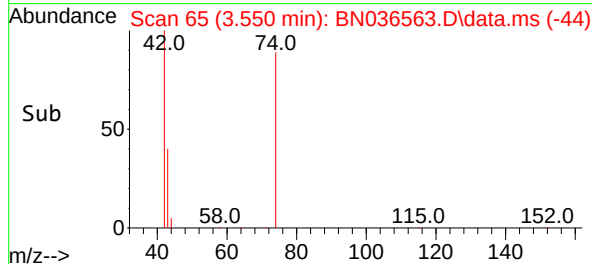
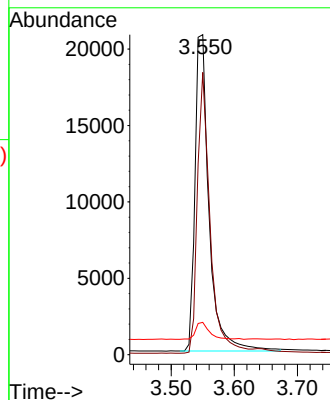
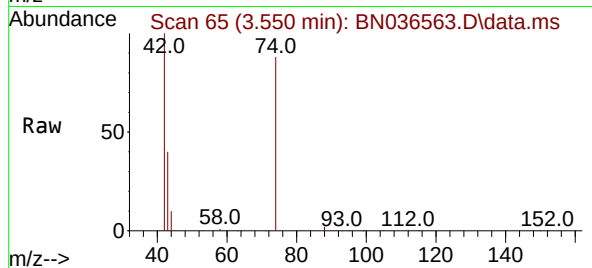




#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

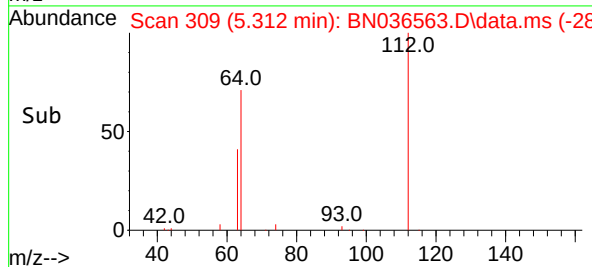
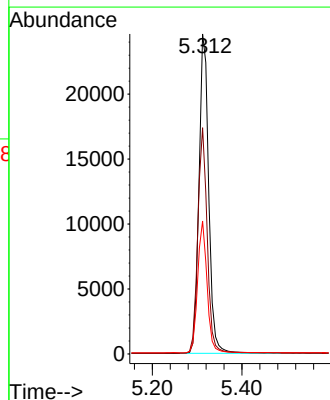
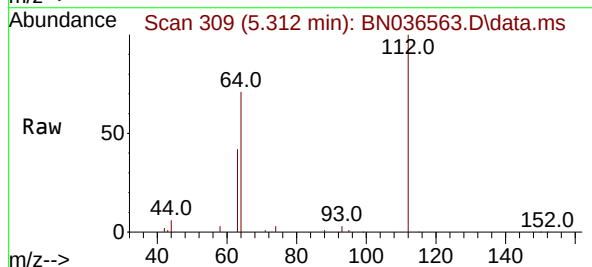
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

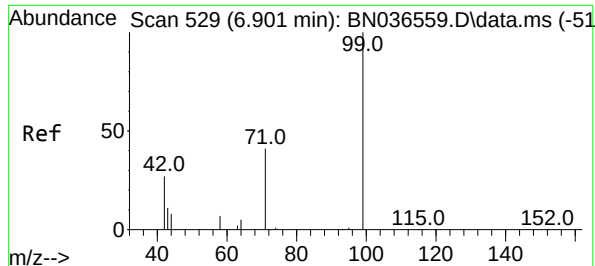
Tgt Ion: 42 Resp: 32163
Ion Ratio Lower Upper
42 100
74 79.9 60.6 90.8
44 5.3 6.3 9.5#



#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 112 Resp: 37154
Ion Ratio Lower Upper
112 100
64 68.5 53.1 79.7
63 40.1 31.8 47.8

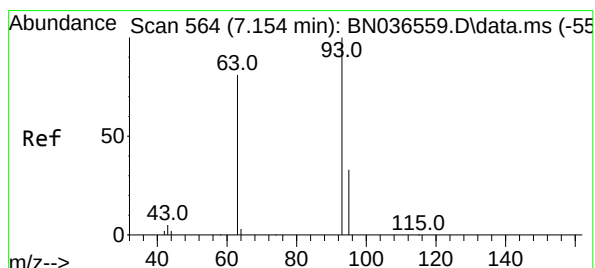
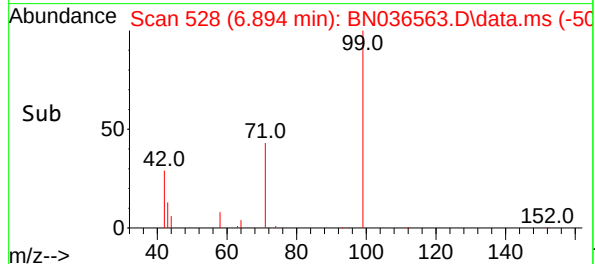
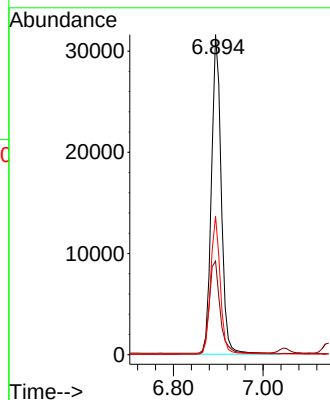
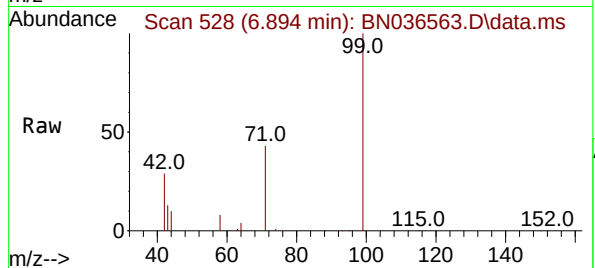




#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

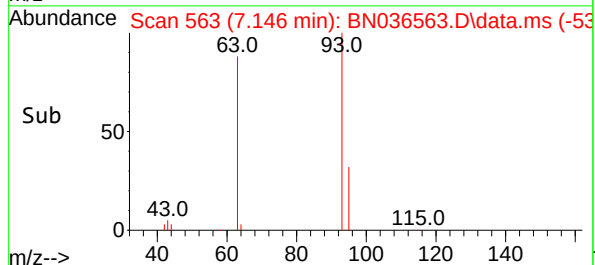
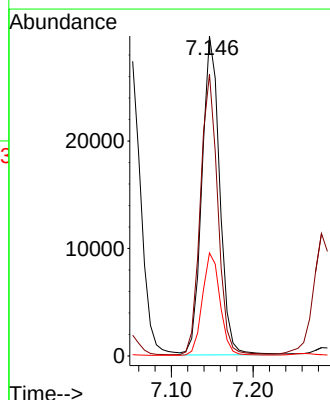
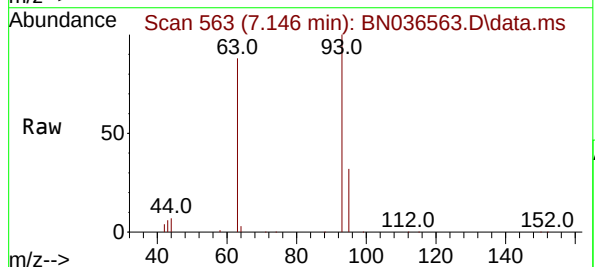
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

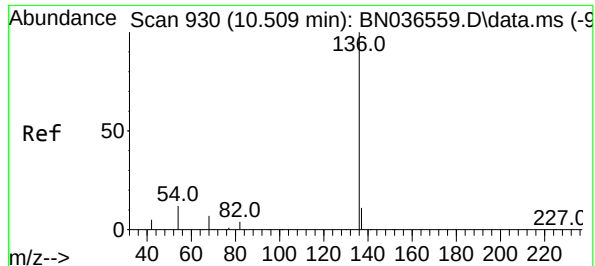
Tgt Ion: 99 Resp: 48085
Ion Ratio Lower Upper
99 100
42 31.8 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 32.0 25.6 38.4

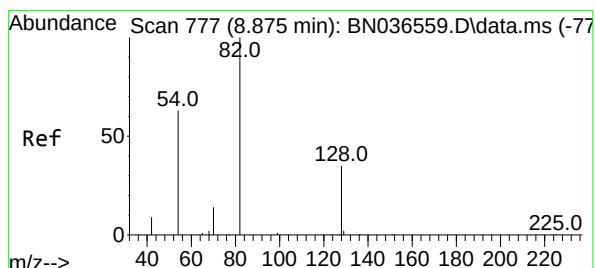
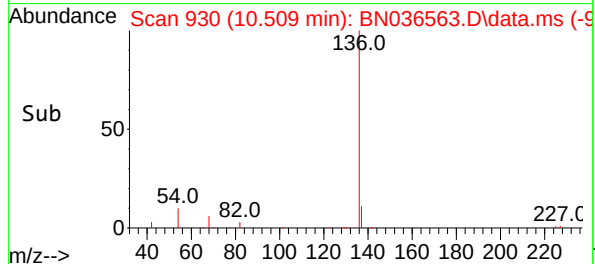
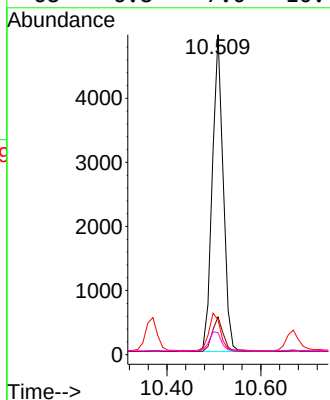
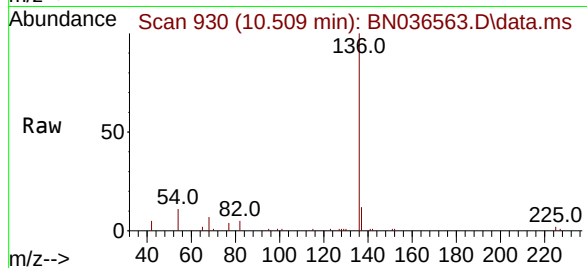




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

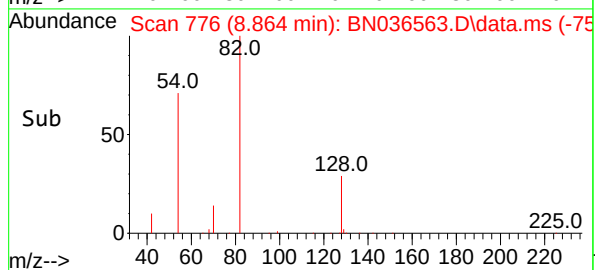
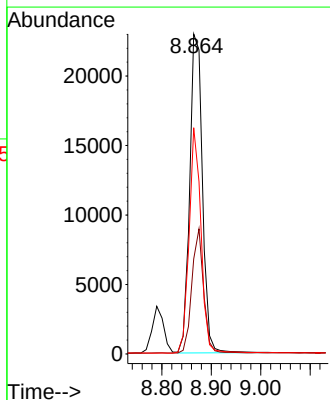
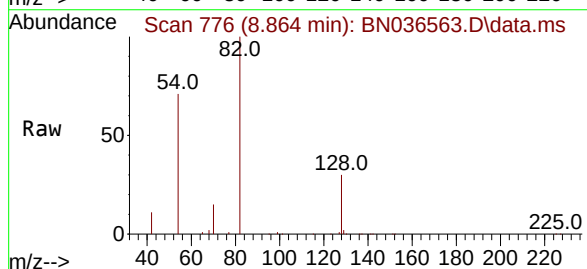
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

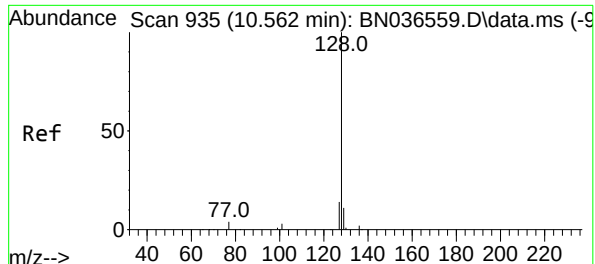
Tgt Ion:	136	Resp:	7995
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	82	Resp:	41042
Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4

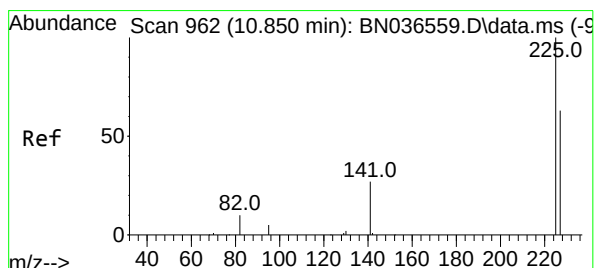
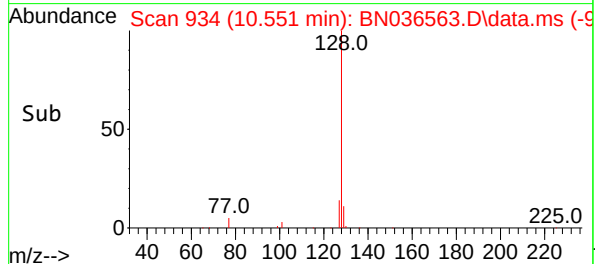
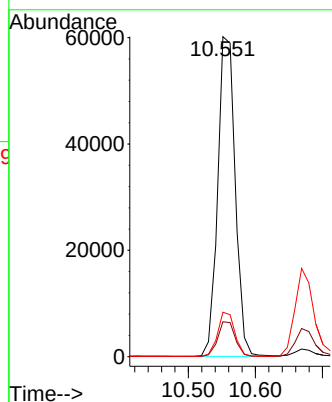
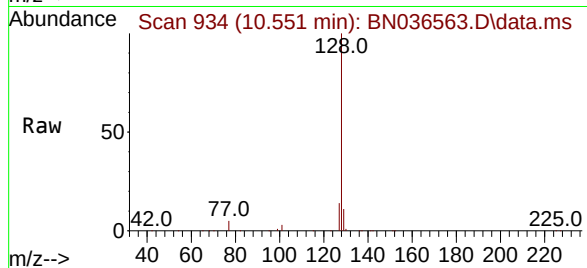




#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

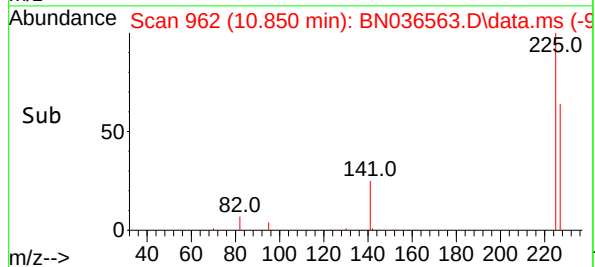
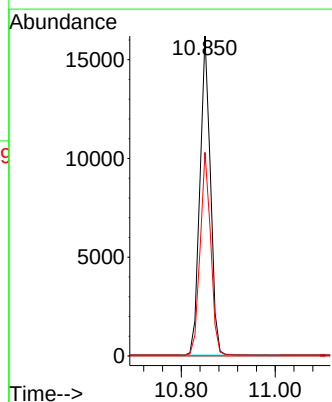
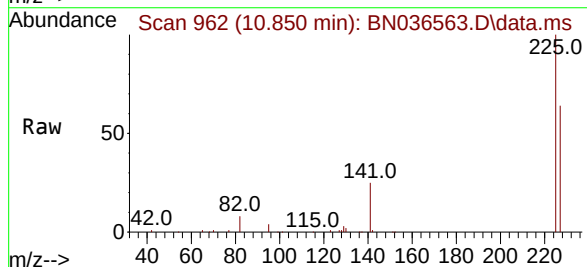
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

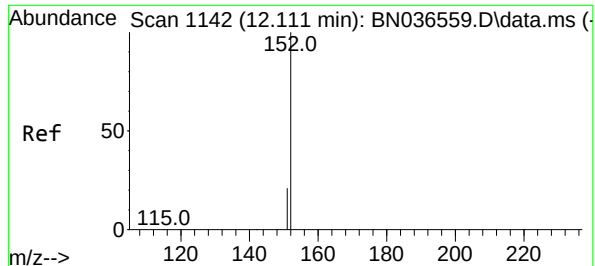
Tgt Ion:128 Resp: 109289
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.8 17.8



#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.8 77.8

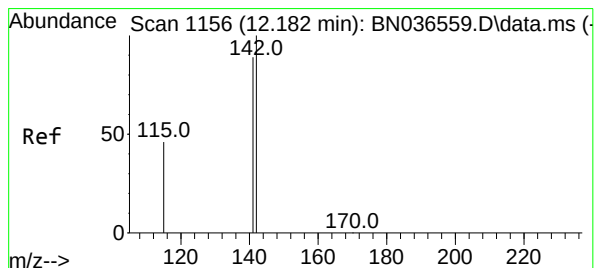
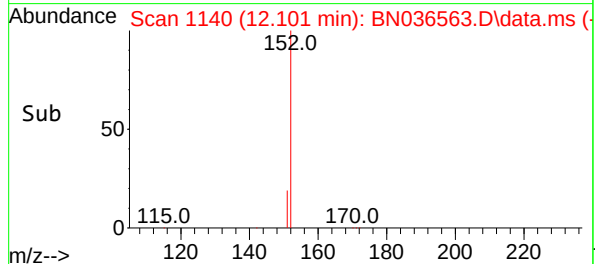
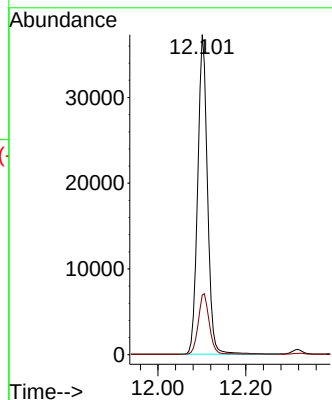
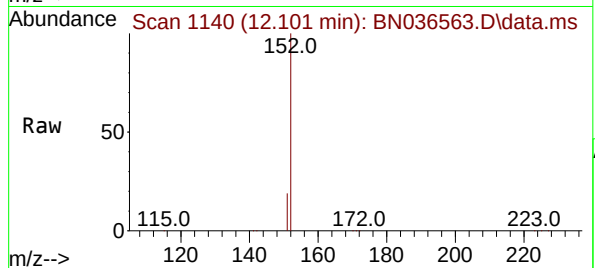




#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

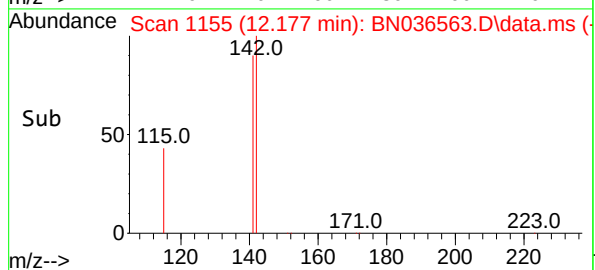
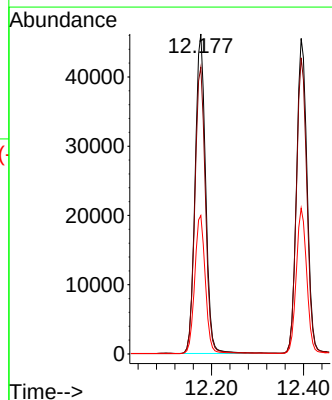
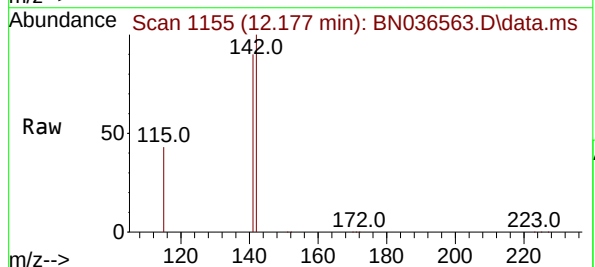
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

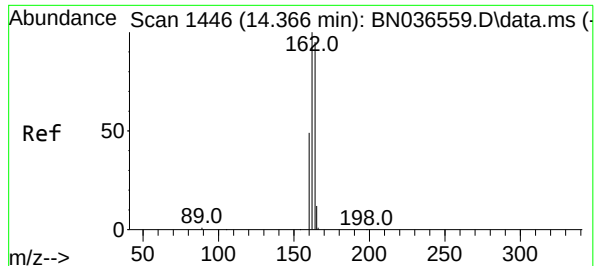
Tgt Ion:152 Resp: 58048
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 43.2 38.3 57.5

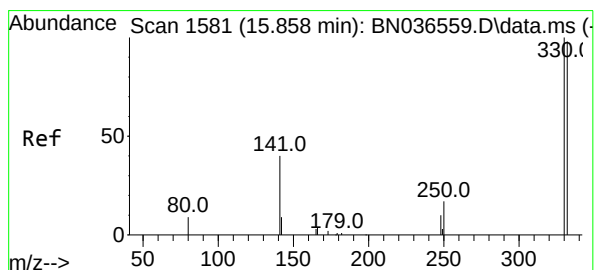
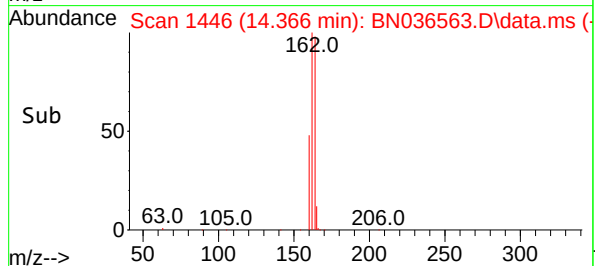
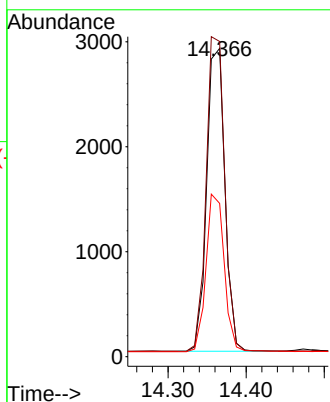
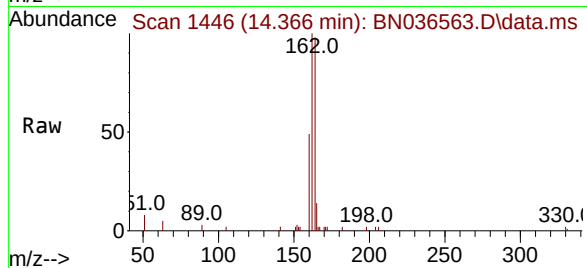




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

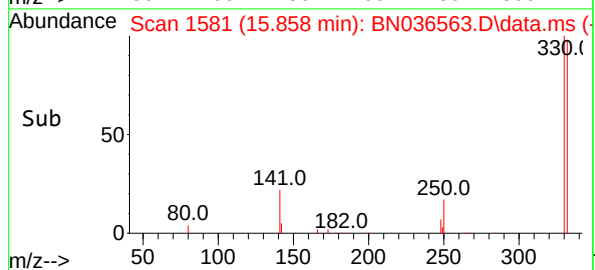
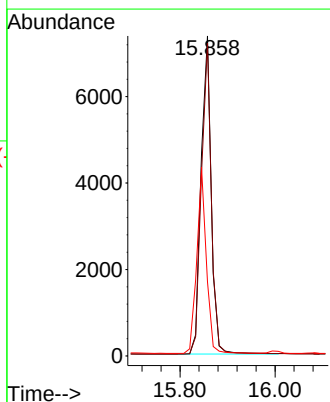
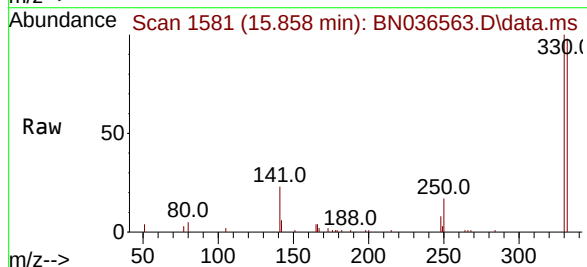
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

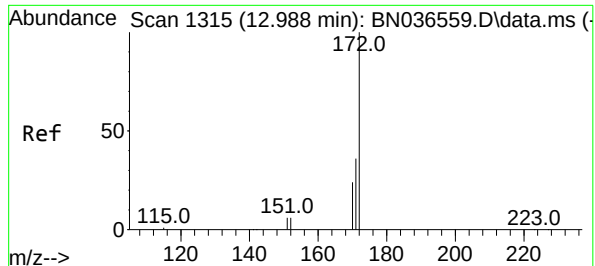
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 5.199 ng

RT: 12.983 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

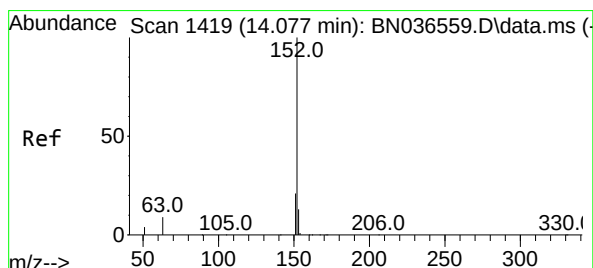
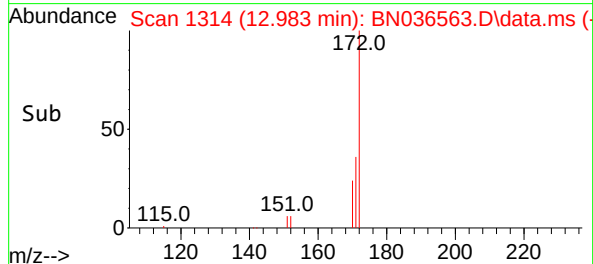
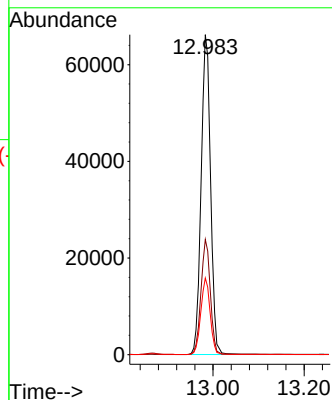
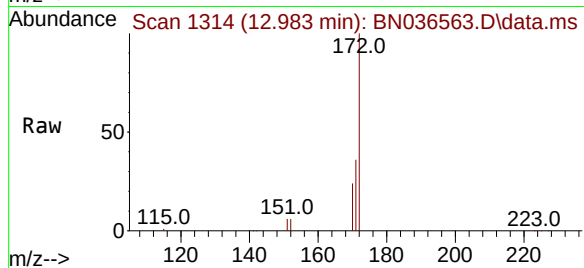
Tgt Ion:172 Resp: 141052

Ion Ratio Lower Upper

172 100

171 36.0 29.5 44.3

170 24.0 20.2 30.4



#16

Acenaphthylene

Concen: 5.125 ng

RT: 14.077 min Scan# 1419

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

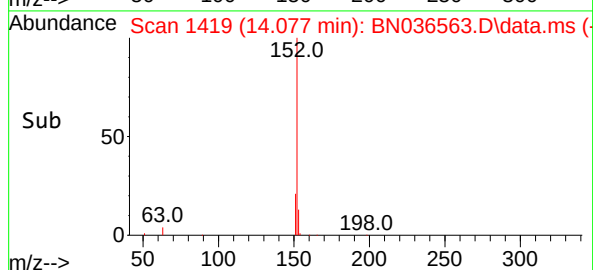
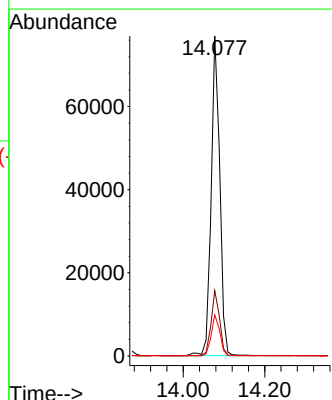
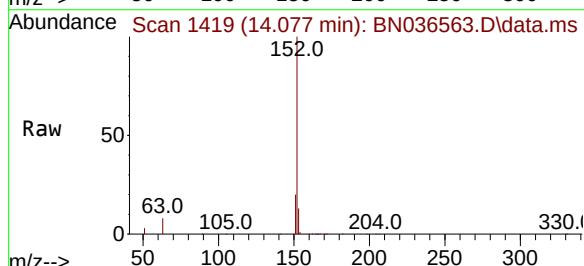
Tgt Ion:152 Resp: 112792

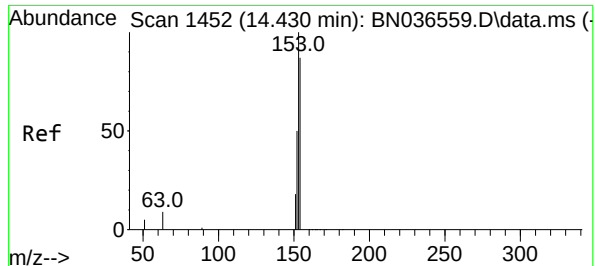
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

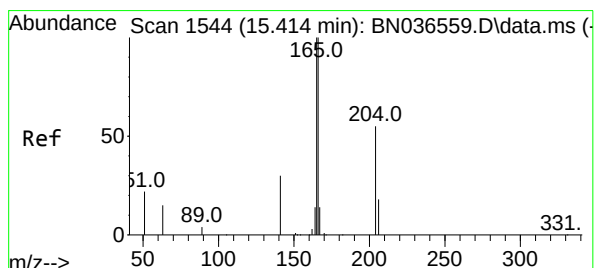
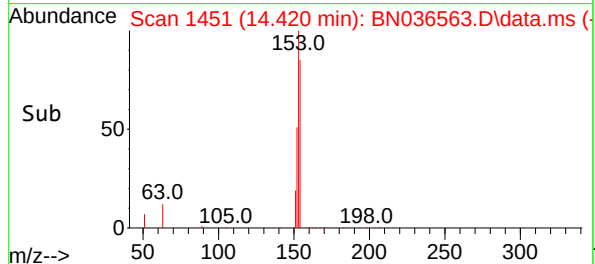
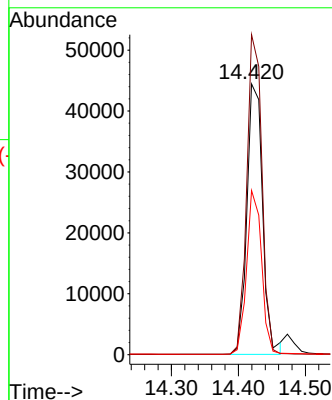
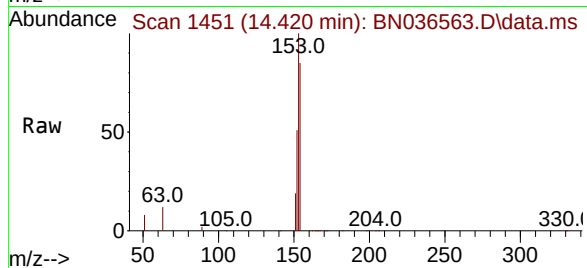




#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

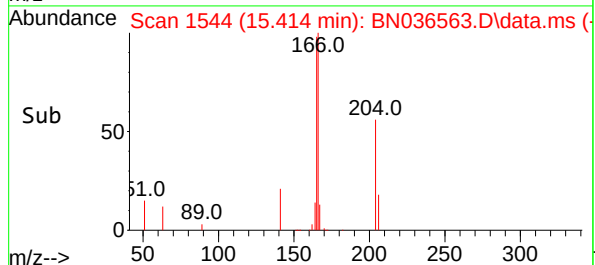
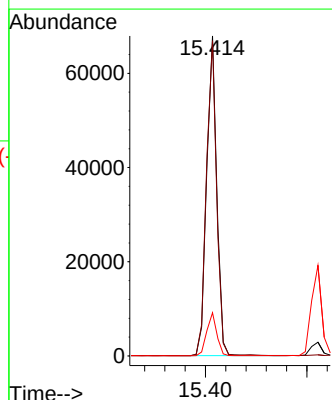
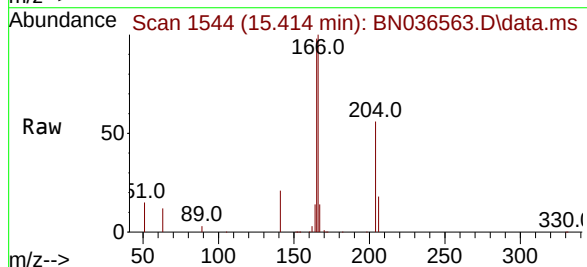
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

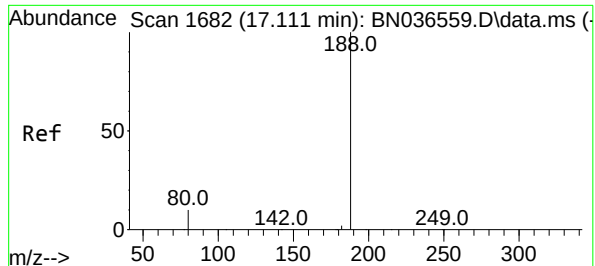
Tgt Ion:154 Resp: 72446
Ion Ratio Lower Upper
154 100
153 114.1 94.1 141.1
152 57.7 49.8 74.6



#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:166 Resp: 96215
Ion Ratio Lower Upper
166 100
165 96.5 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

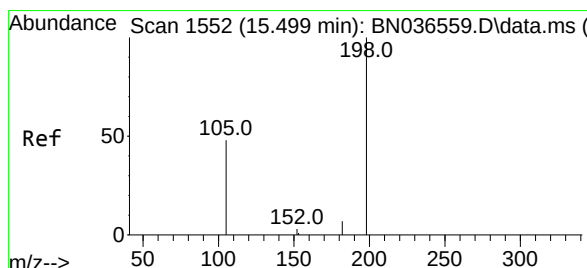
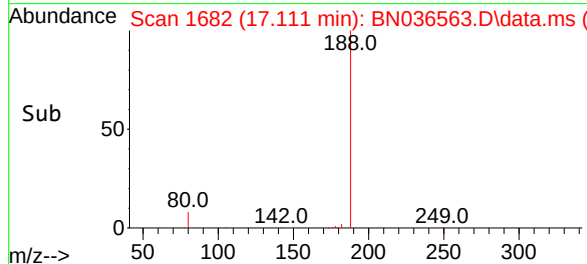
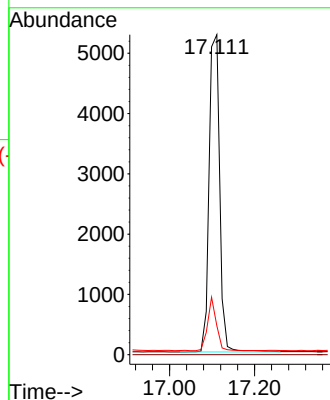
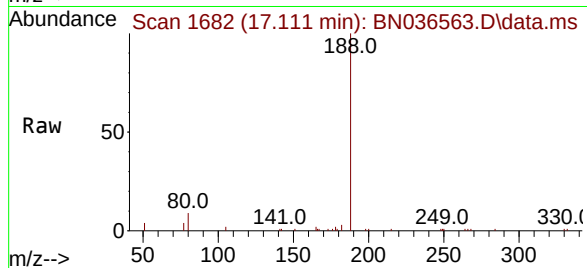
Tgt Ion:188 Resp: 9061

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 4.968 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

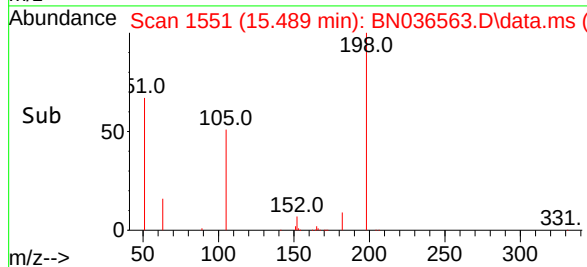
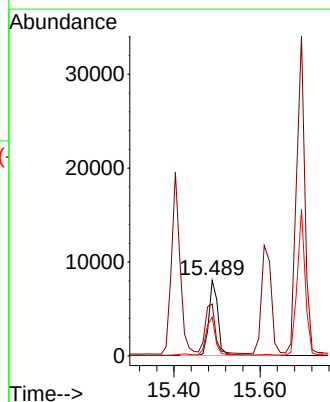
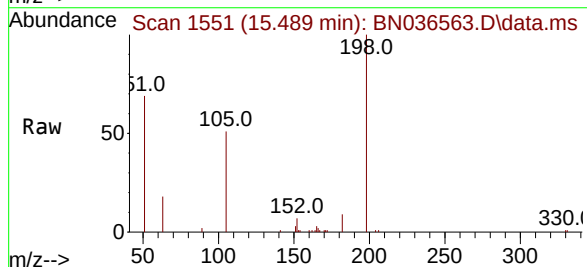
Tgt Ion:198 Resp: 12627

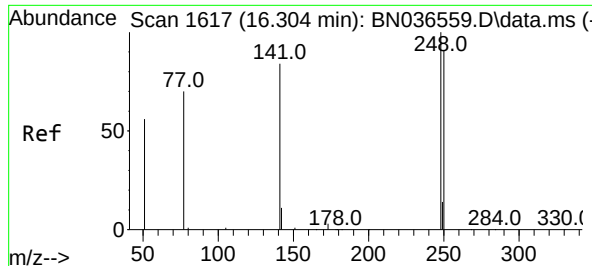
Ion Ratio Lower Upper

198 100

51 68.9 107.9 161.9#

105 51.3 56.2 84.2#

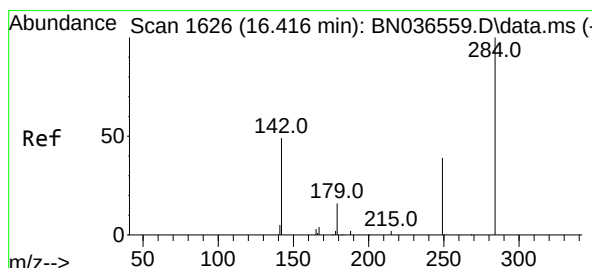
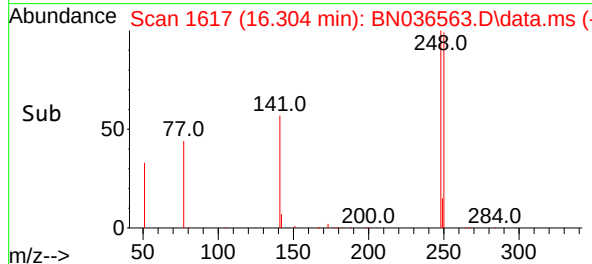
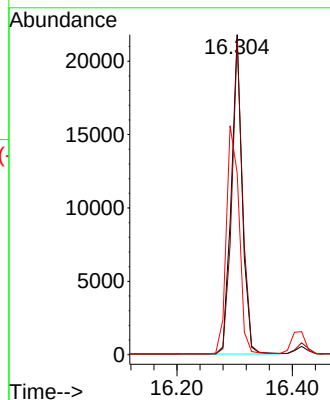
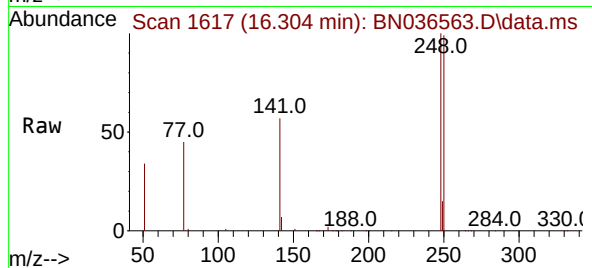




#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

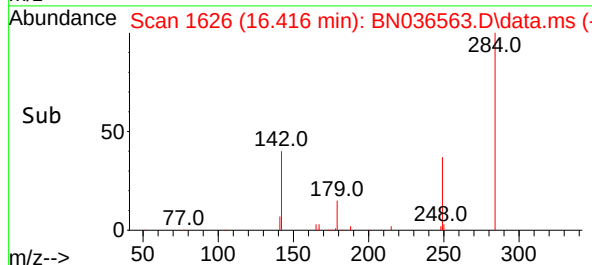
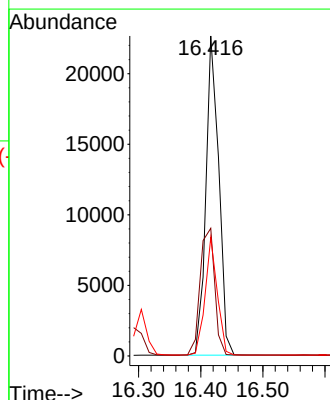
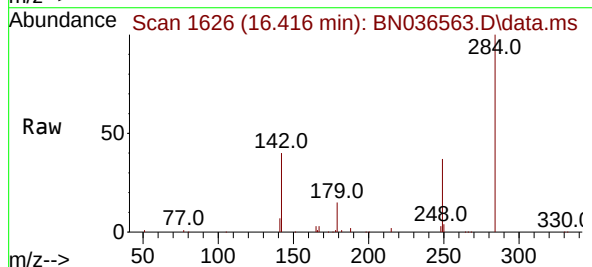
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

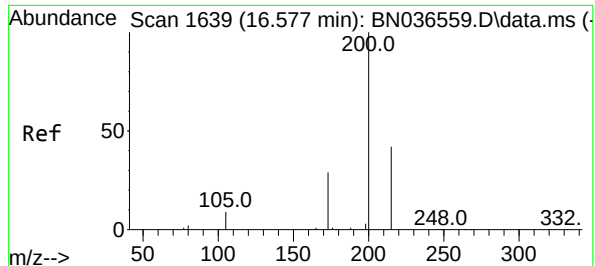
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0



#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1

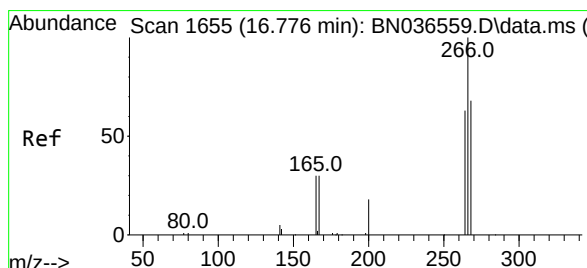
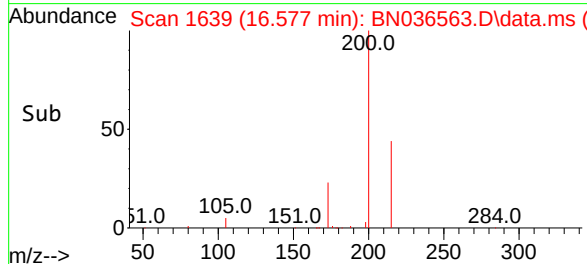
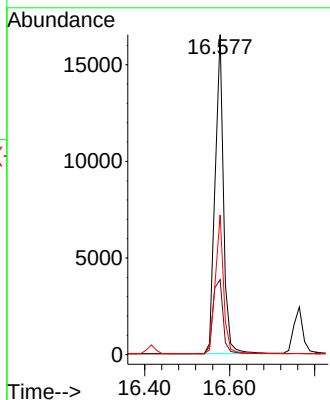
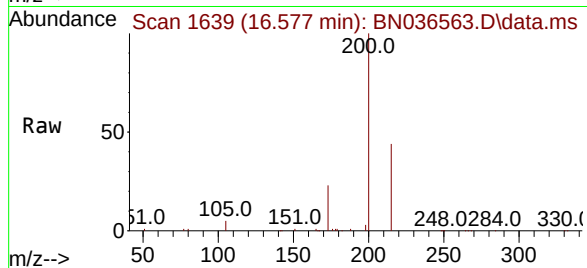




#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

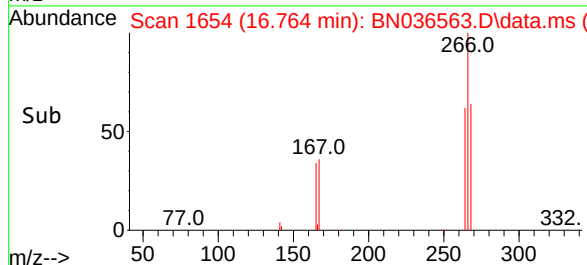
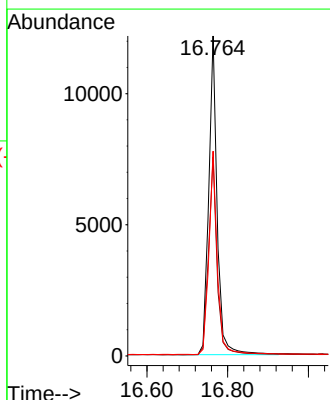
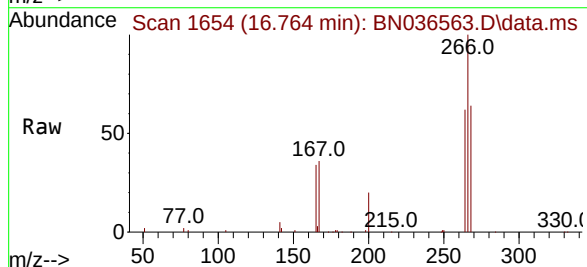
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

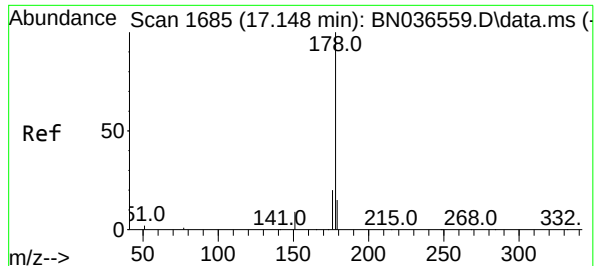
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3





#25

Phenanthrene

Concen: 4.979 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

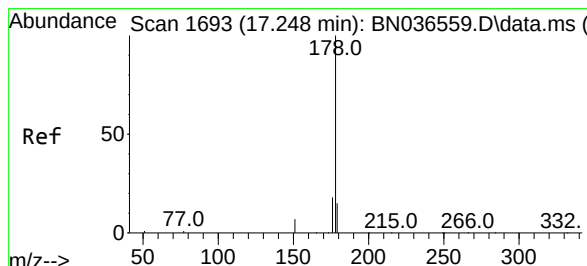
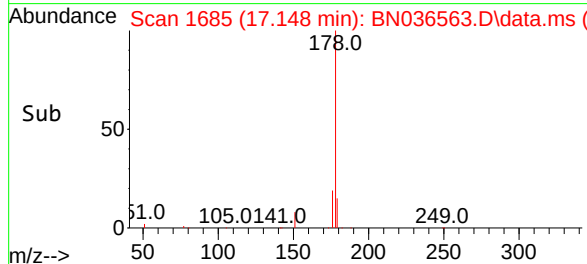
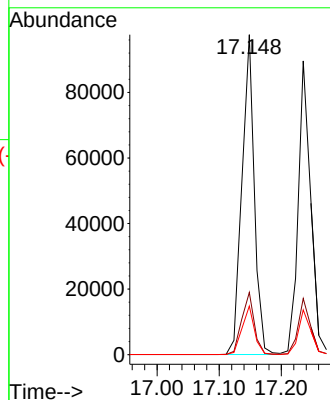
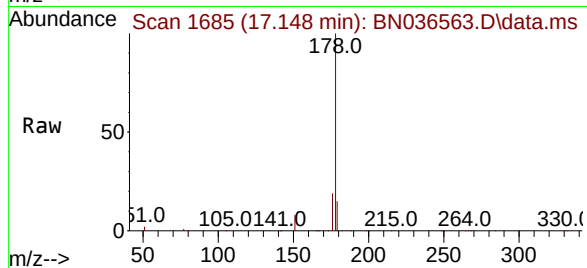
Tgt Ion:178 Resp: 135347

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

179 15.2 12.2 18.4



#26

Anthracene

Concen: 5.135 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

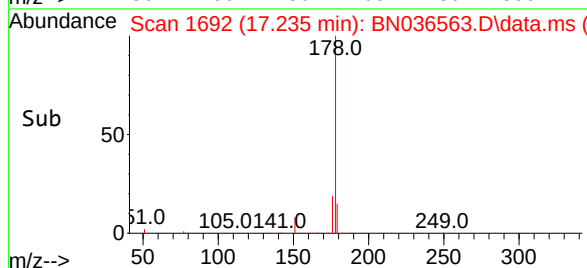
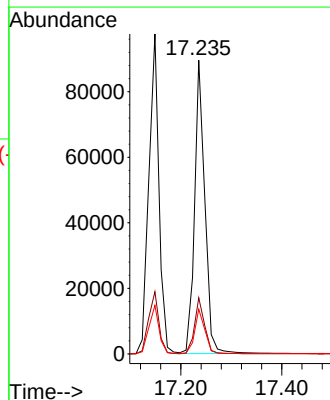
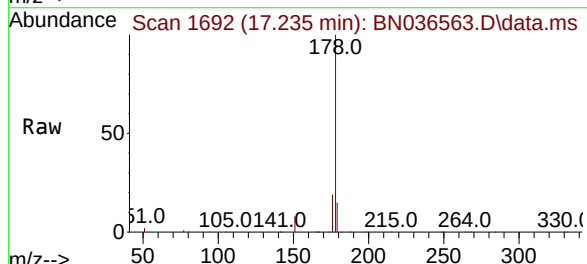
Tgt Ion:178 Resp: 125954

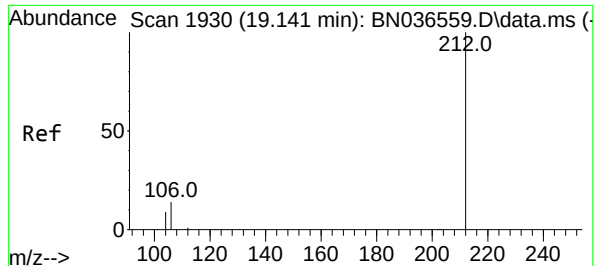
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 4.879 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

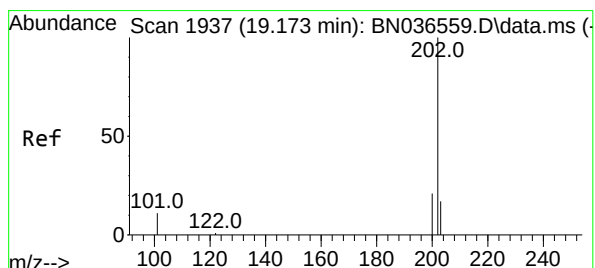
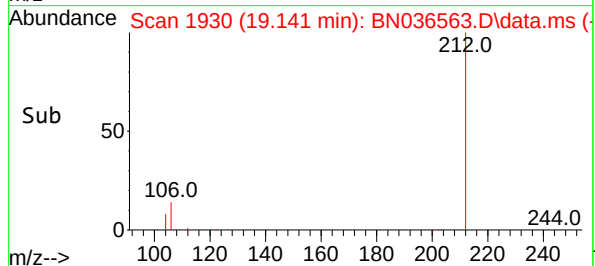
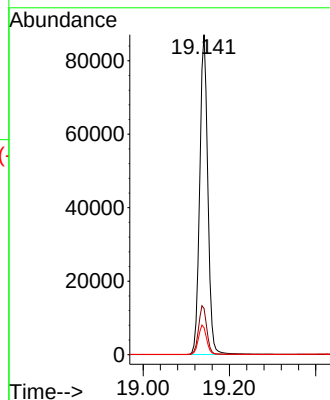
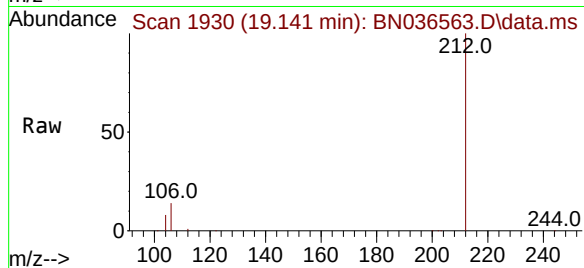
Tgt Ion:212 Resp: 113317

Ion Ratio Lower Upper

212 100

106 15.5 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 4.883 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

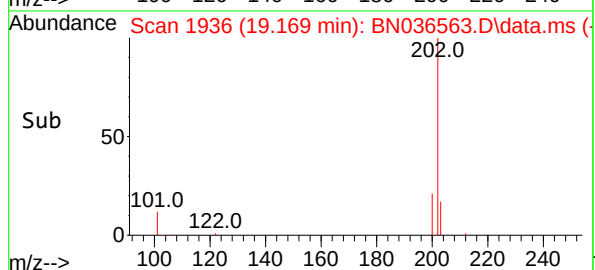
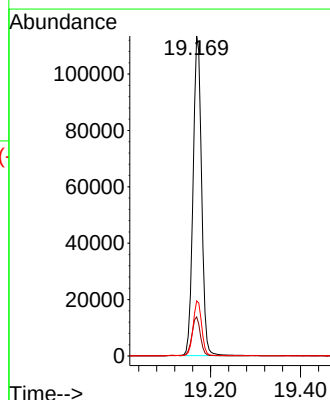
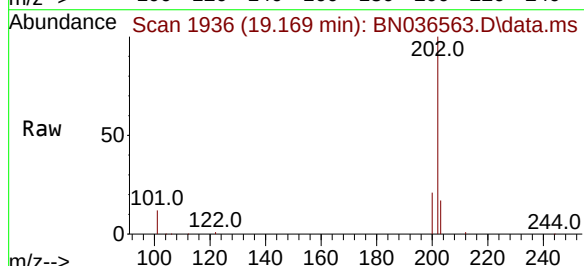
Tgt Ion:202 Resp: 149107

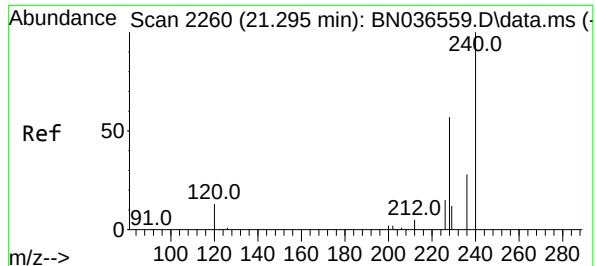
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

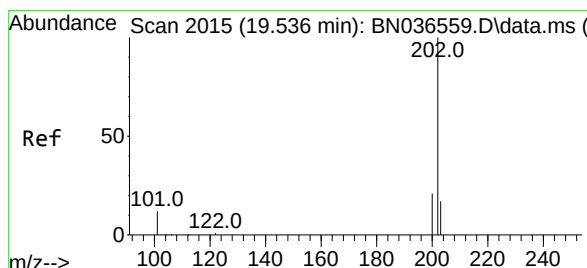
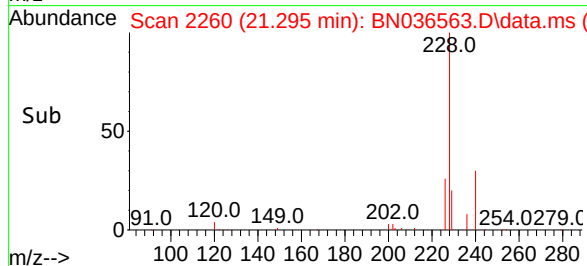
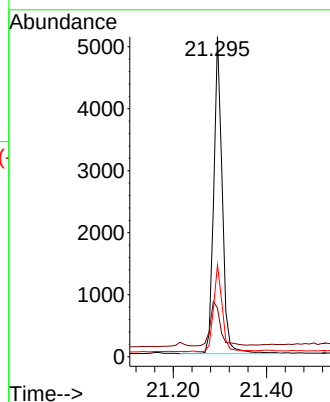
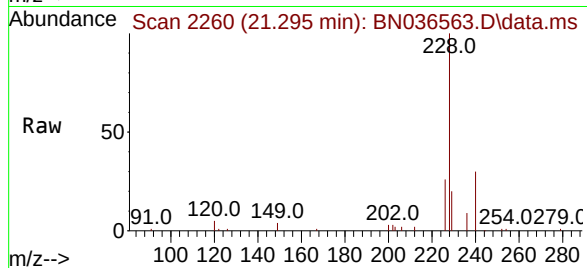
Tgt Ion:240 Resp: 6472

Ion Ratio Lower Upper

240 100

120 15.2 14.6 22.0

236 28.7 24.1 36.1



#30

Pyrene

Concen: 4.695 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

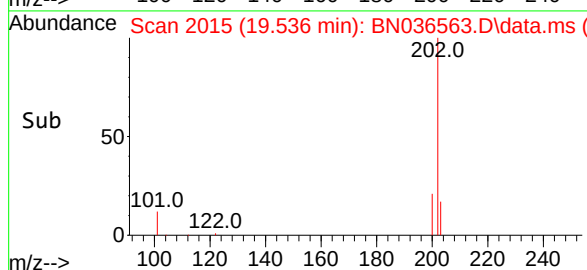
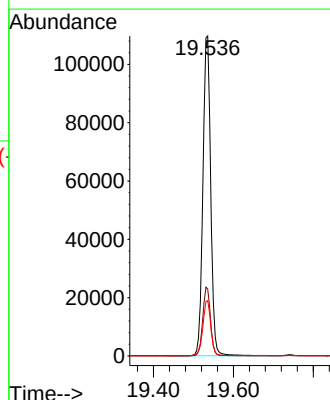
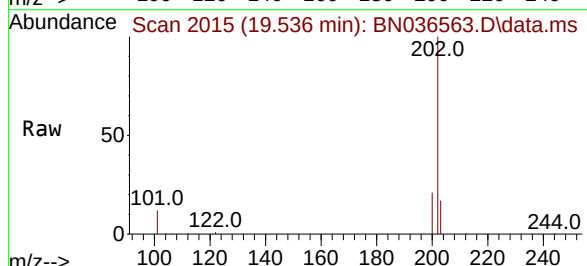
Tgt Ion:202 Resp: 148584

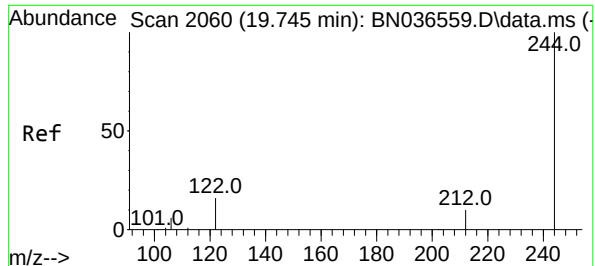
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.7 14.1 21.1

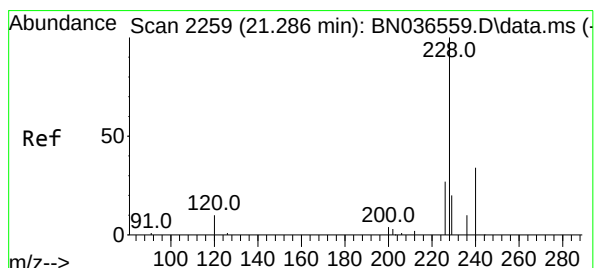
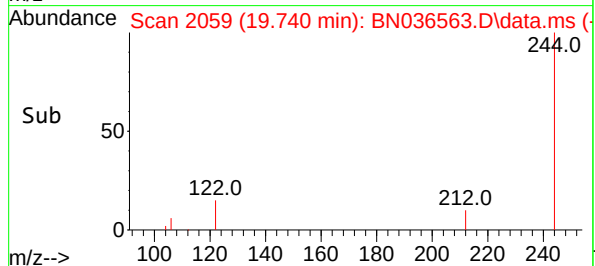
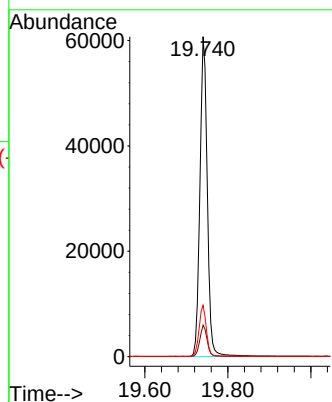
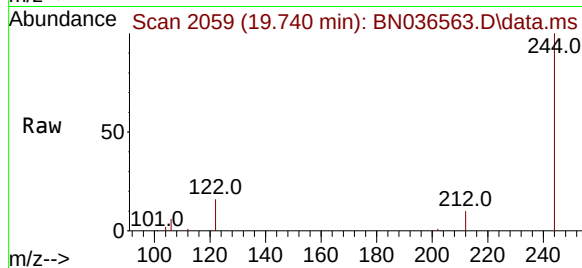




#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

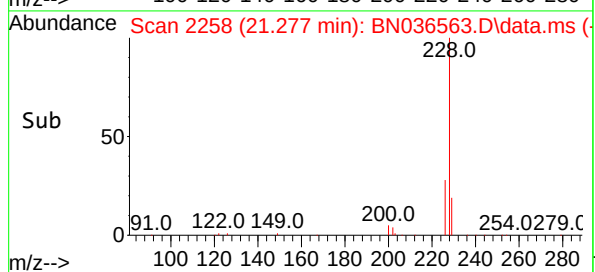
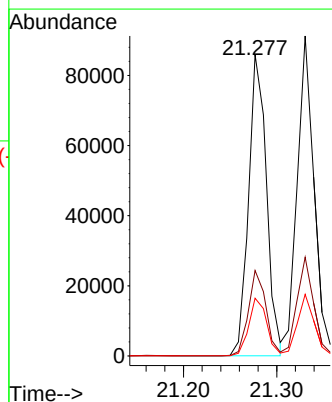
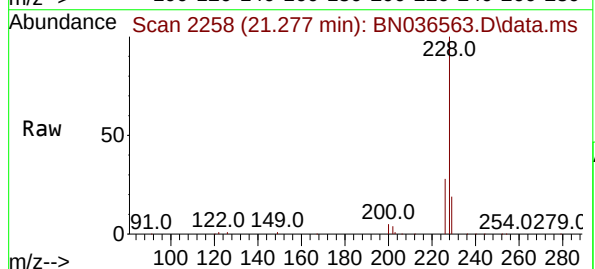
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

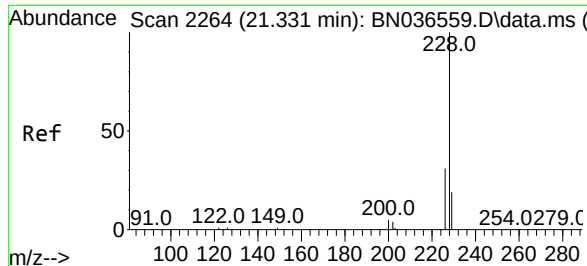
Tgt Ion:244 Resp: 74923
Ion Ratio Lower Upper
244 100
212 9.9 9.6 14.4
122 16.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 4.764 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

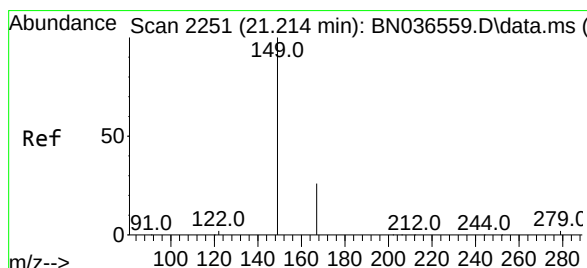
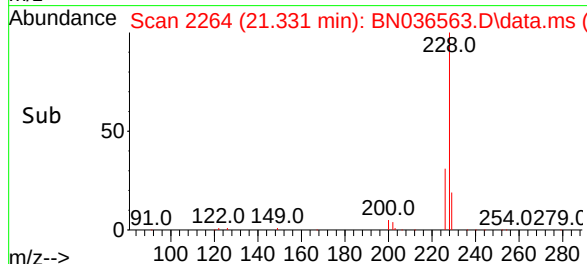
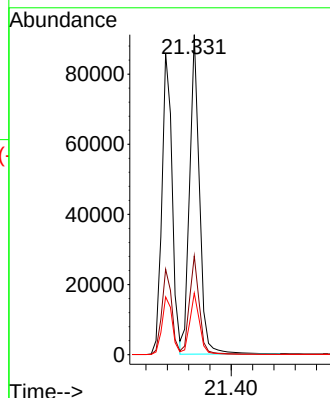
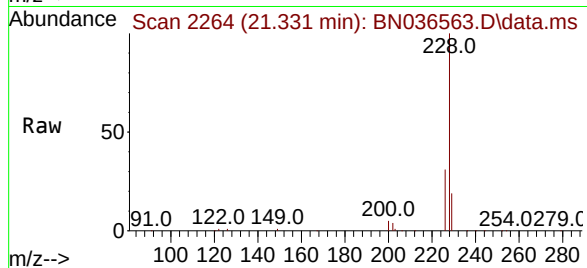
Tgt Ion:228 Resp: 117149

Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.390 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

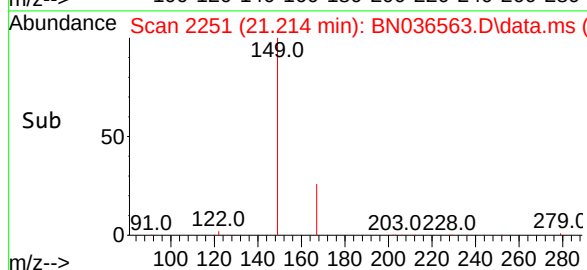
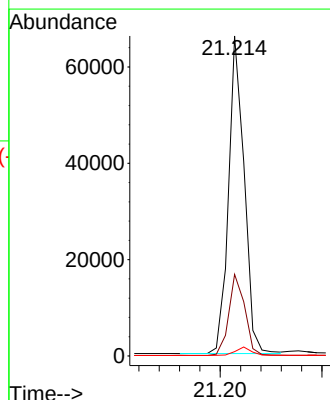
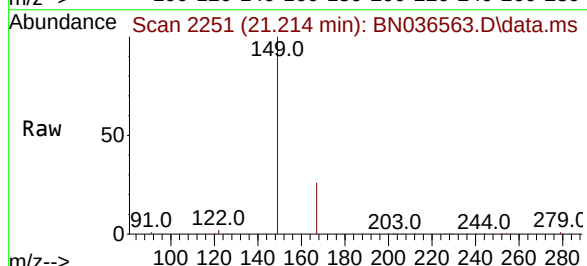
Tgt Ion:149 Resp: 70345

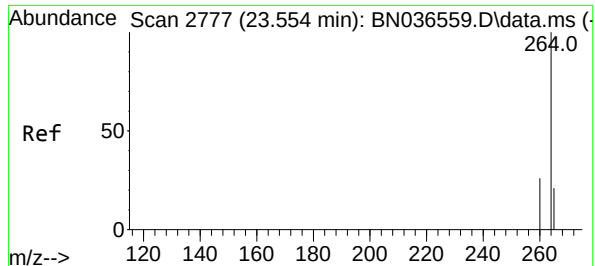
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

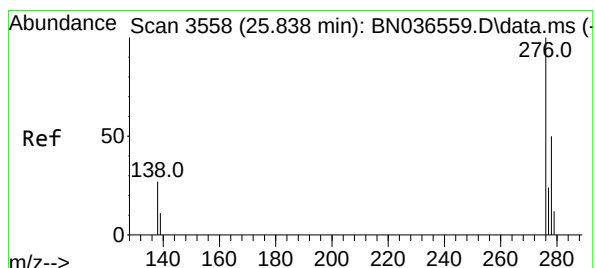
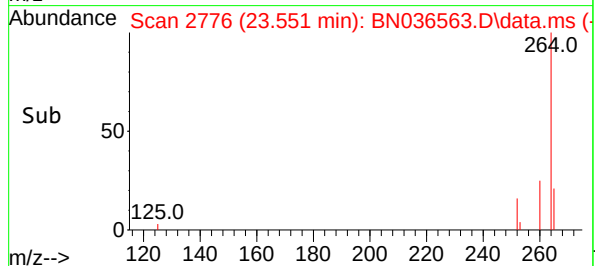
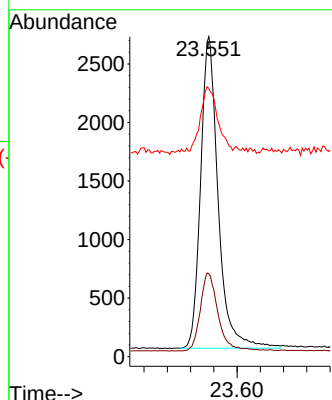
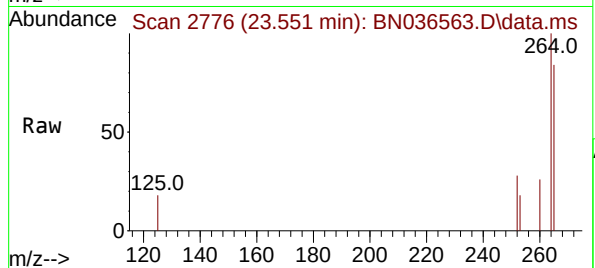
Tgt Ion:264 Resp: 5580

Ion Ratio Lower Upper

264 100

260 25.9 22.6 33.8

265 83.8 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.440 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

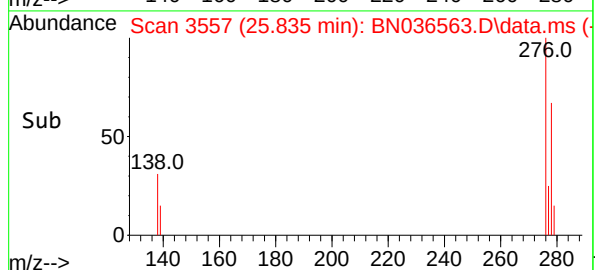
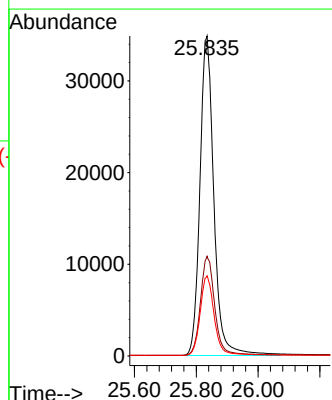
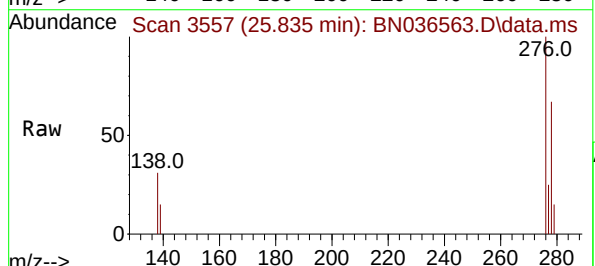
Tgt Ion:276 Resp: 109561

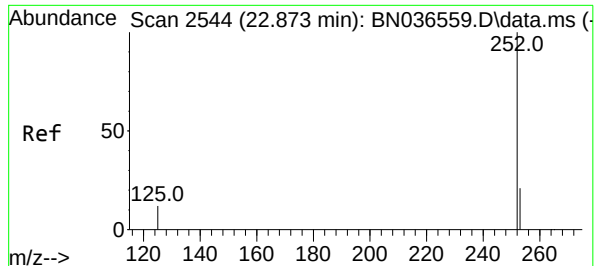
Ion Ratio Lower Upper

276 100

138 31.6 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.146 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

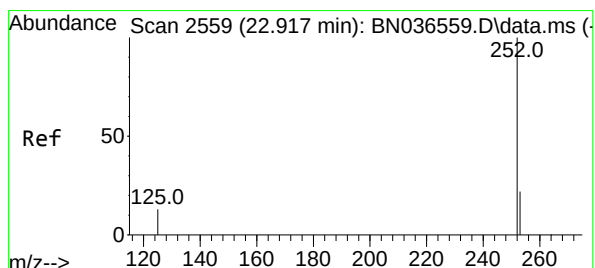
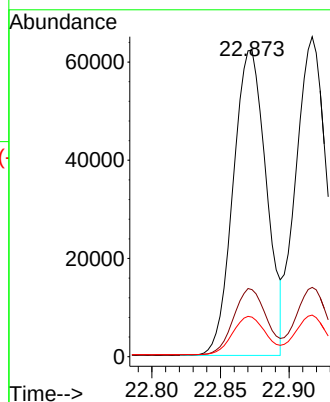
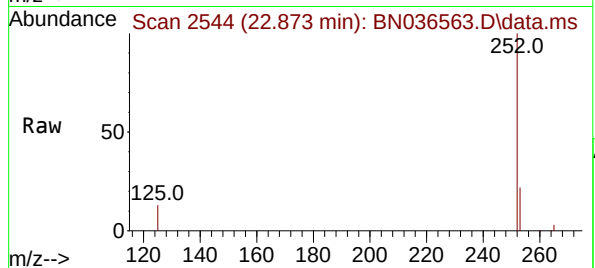
Tgt Ion:252 Resp: 104498

Ion Ratio Lower Upper

252 100

253 21.9 23.9 35.9#

125 12.9 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 5.022 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

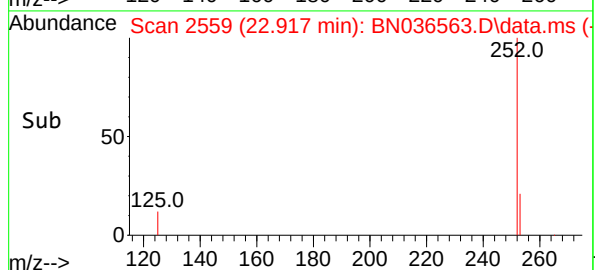
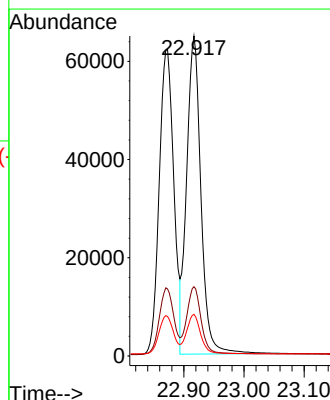
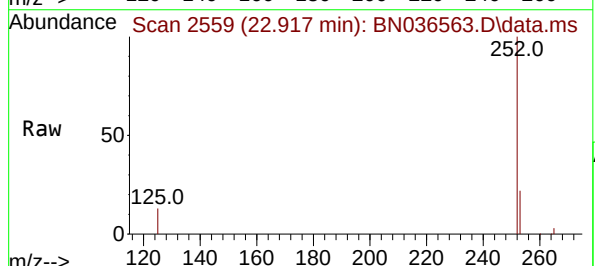
Tgt Ion:252 Resp: 106995

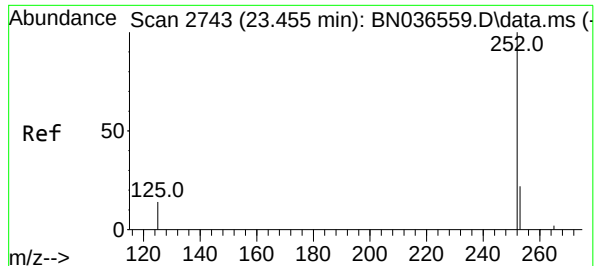
Ion Ratio Lower Upper

252 100

253 21.6 24.6 36.8#

125 13.0 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 5.170 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

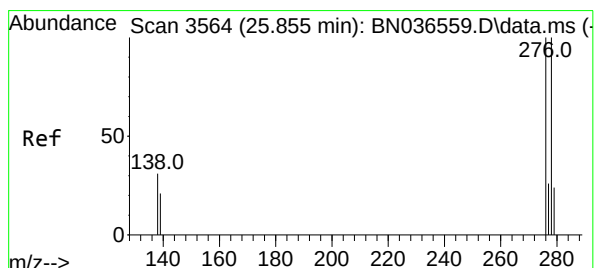
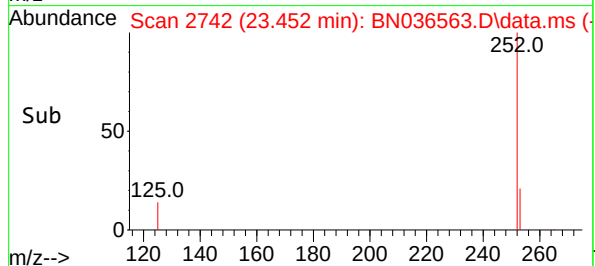
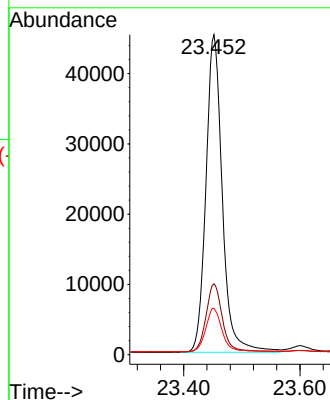
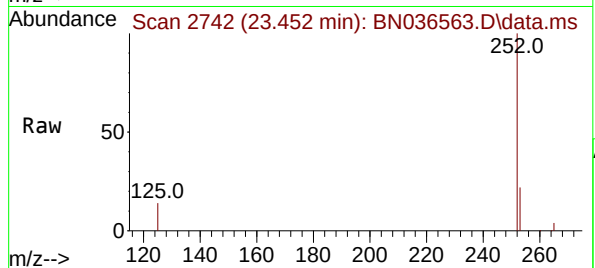
Tgt Ion:252 Resp: 88413

Ion Ratio Lower Upper

252 100

253 22.2 27.8 41.8#

125 14.5 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 5.568 ng

RT: 25.846 min Scan# 3561

Delta R.T. -0.009 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

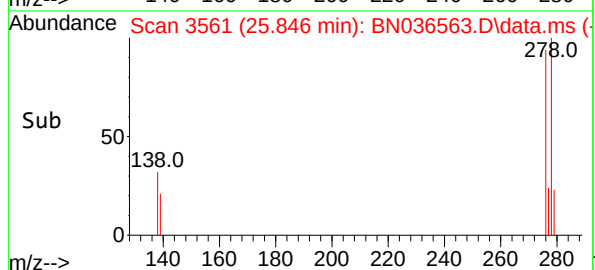
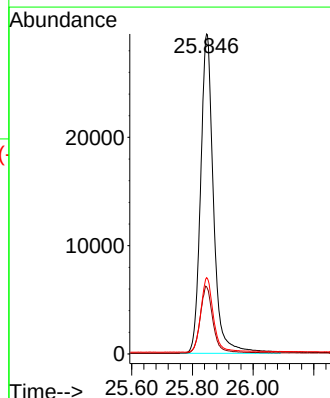
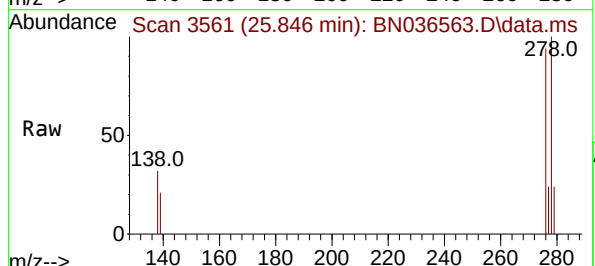
Tgt Ion:278 Resp: 87308

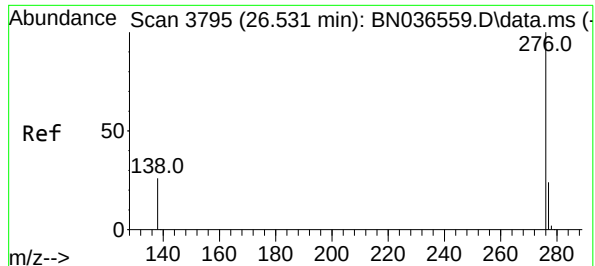
Ion Ratio Lower Upper

278 100

139 21.0 20.8 31.2

279 23.9 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 5.189 ng

RT: 26.531 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036563.D

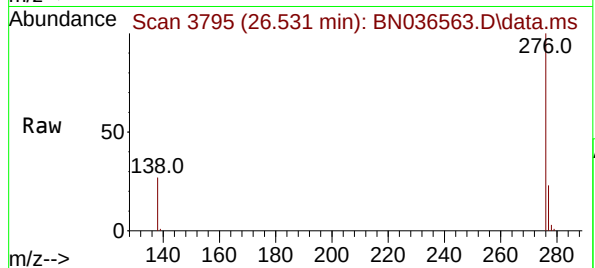
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



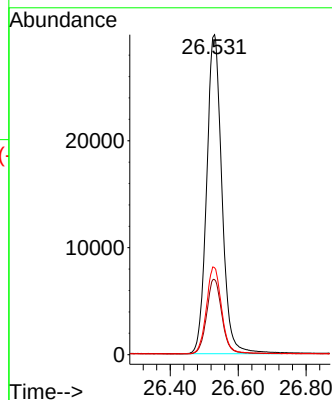
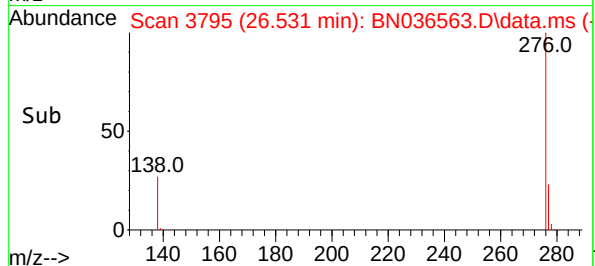
Tgt Ion:276 Resp: 93067

Ion Ratio Lower Upper

276 100

277 23.4 22.2 33.4

138 27.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

Quant Time: Mar 10 17:10:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

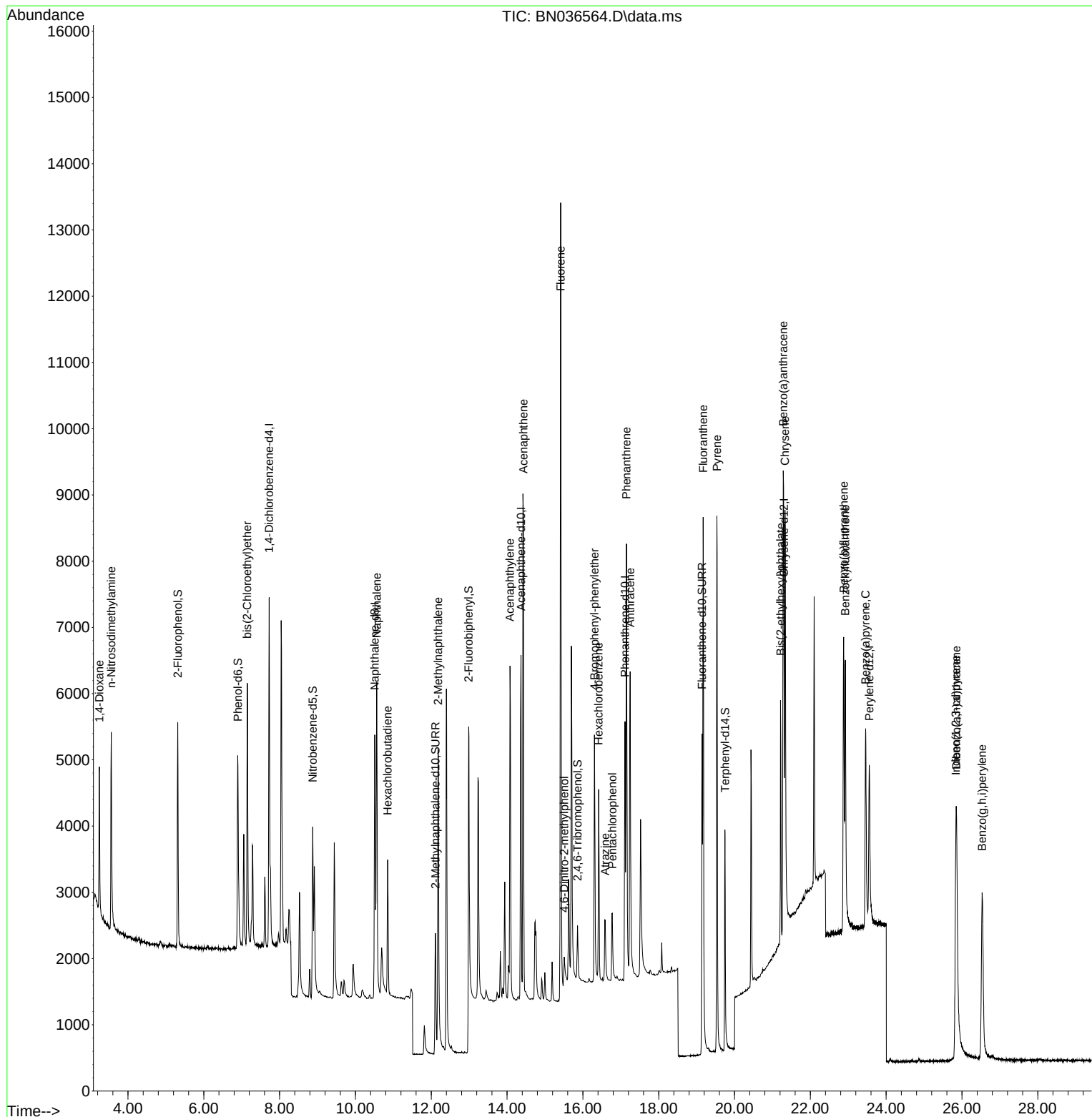
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng	0.00
35) Perylene-d12	23.554	264	3835	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2418	0.417	ng	0.00
5) Phenol-d6	6.901	99	2744	0.383	ng	0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng	0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1297	0.470	ng	97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng	100
9) Naphthalene	10.562	128	6710	0.405	ng	99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	# 98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng	99
16) Acenaphthylene	14.077	152	6059	0.416	ng	99
17) Acenaphthene	14.430	154	4035	0.423	ng	99
18) Fluorene	15.414	166	5226	0.405	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng	94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng	96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng	99
23) Atrazine	16.590	200	1165	0.401	ng	95
24) Pentachlorophenol	16.776	266	699	0.351	ng	95
25) Phenanthrene	17.148	178	7229	0.417	ng	99
26) Anthracene	17.248	178	6358	0.407	ng	99
28) Fluoranthene	19.174	202	8068	0.414	ng	100
30) Pyrene	19.536	202	8156	0.395	ng	100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng	100
33) Chrysene	21.331	228	6940	0.433	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng	98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng	98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng	99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng	98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng	99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng	97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng	97

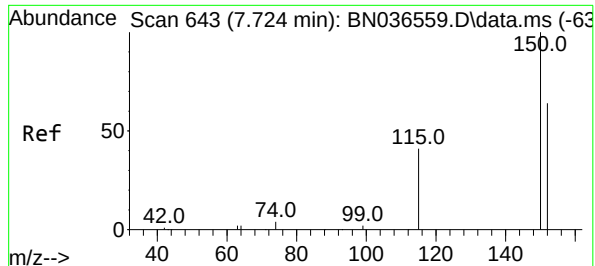
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

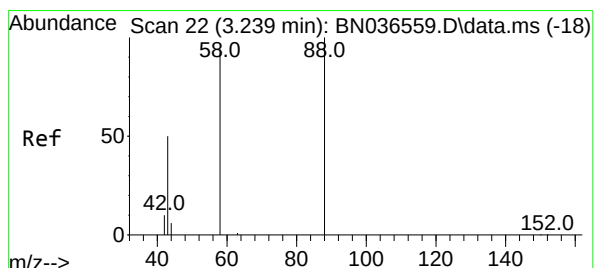
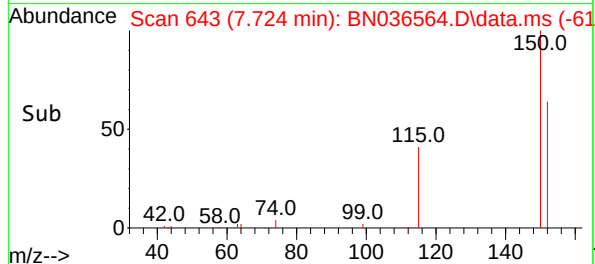
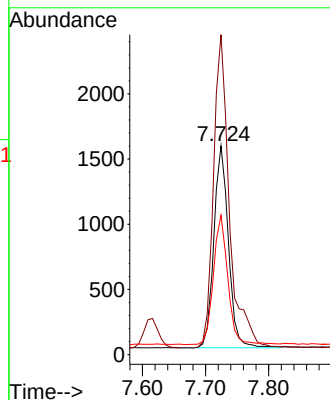
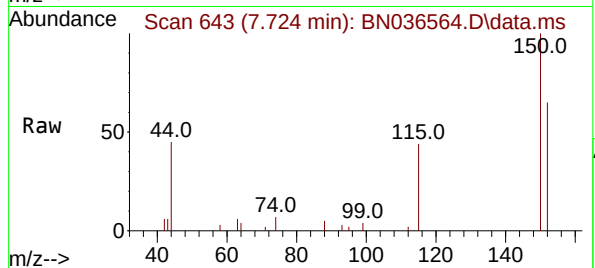




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

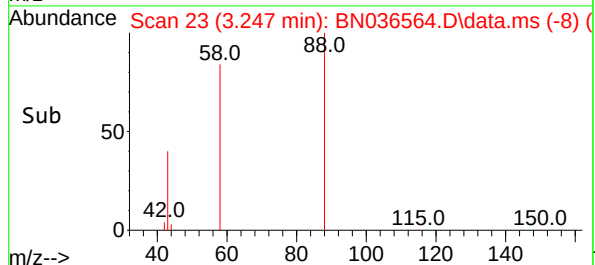
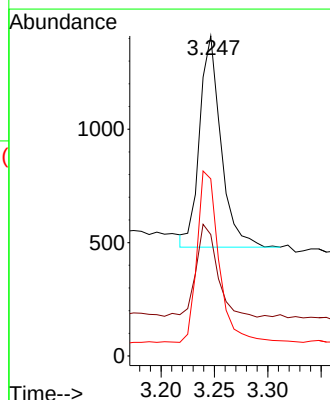
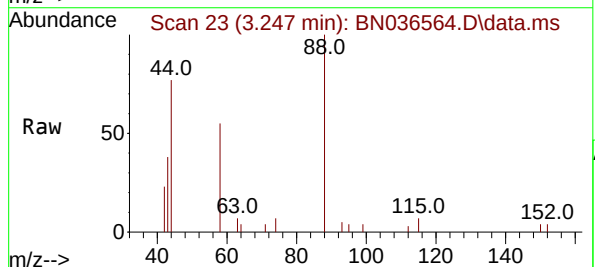
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

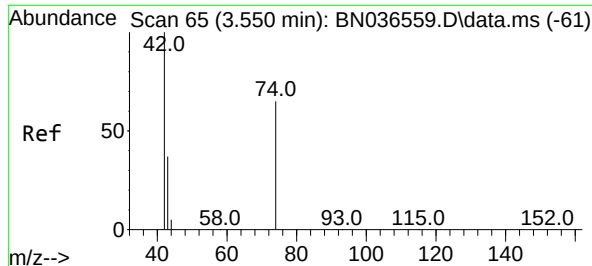
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 66.7 54.3 81.5



#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297
Ion Ratio Lower Upper
88 100
43 44.1 37.8 56.8
58 82.4 67.4 101.2

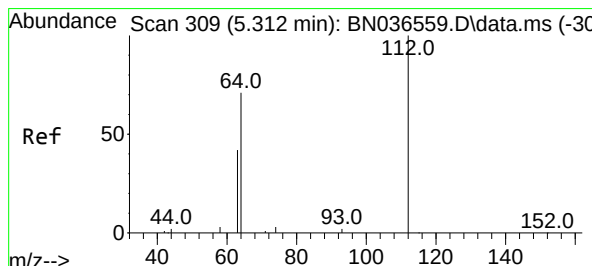
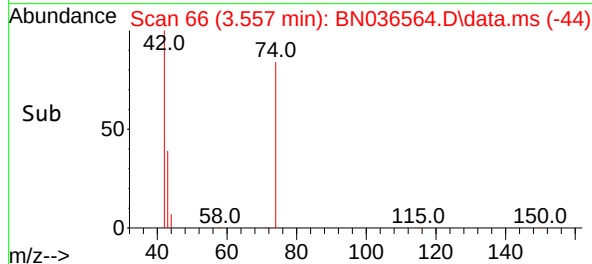
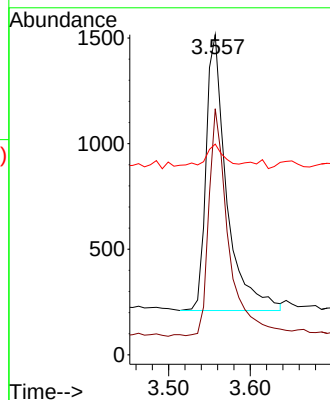
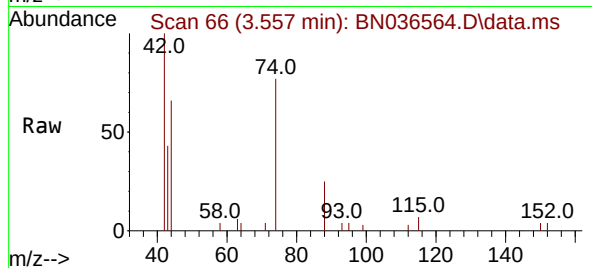




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

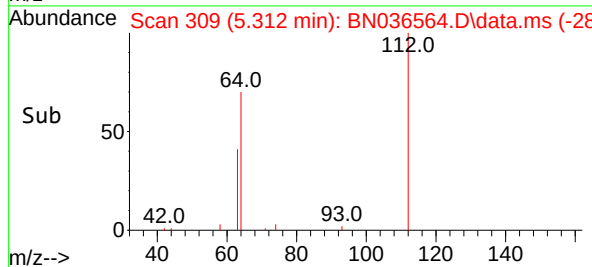
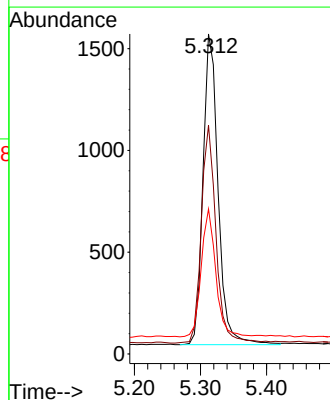
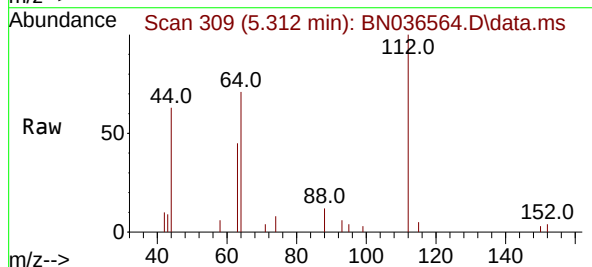
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

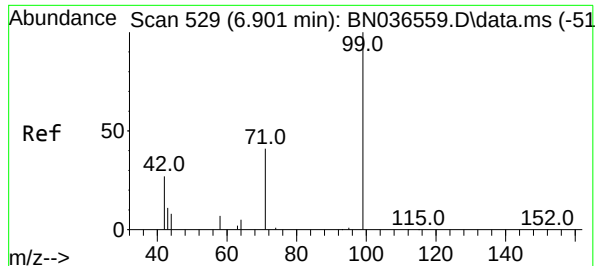
Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 8.2 6.3 9.5



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 112 Resp: 2418
Ion Ratio Lower Upper
112 100
64 68.2 53.1 79.7
63 39.8 31.8 47.8

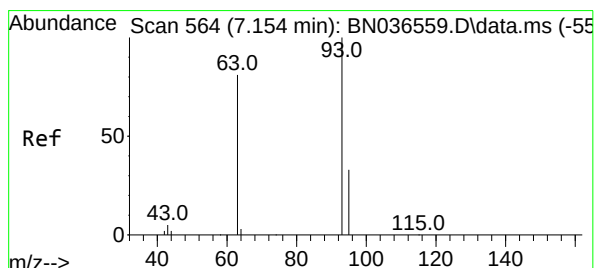
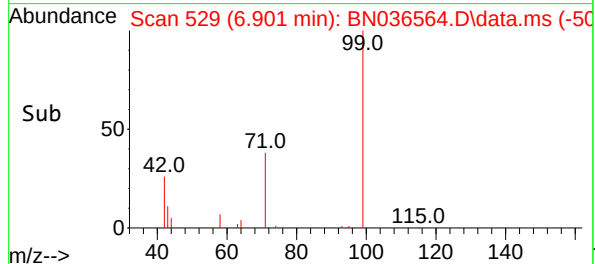
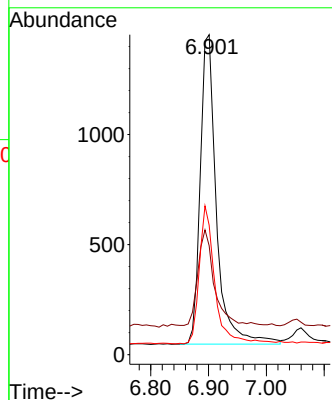
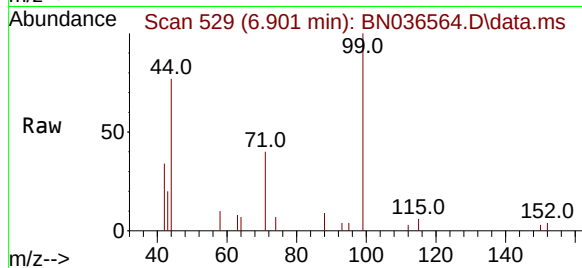




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

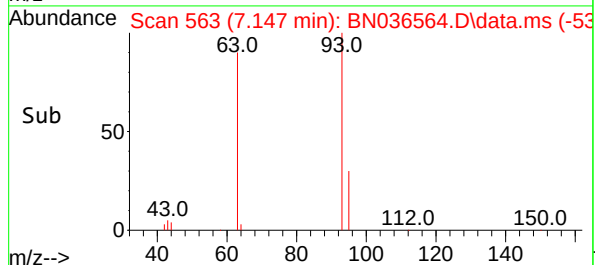
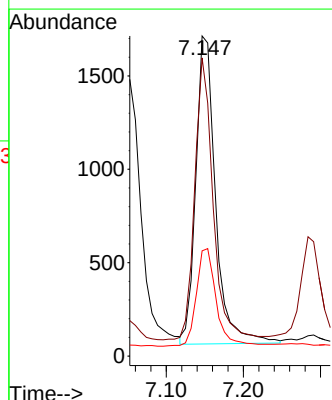
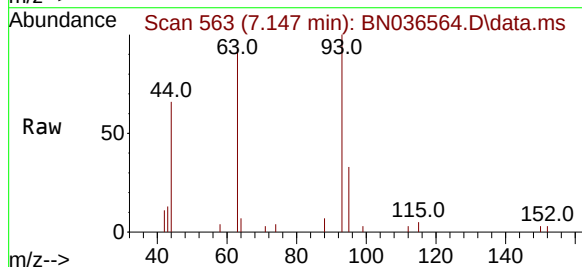
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

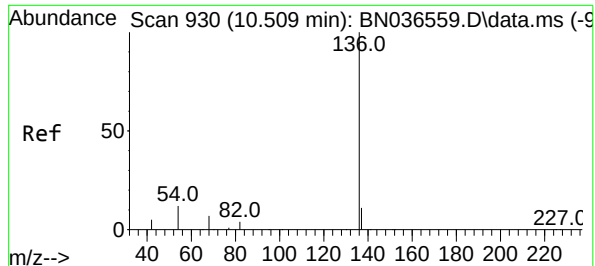
Tgt Ion: 99 Resp: 2744
Ion Ratio Lower Upper
99 100
42 32.1 26.5 39.7
71 42.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945
Ion Ratio Lower Upper
93 100
63 85.1 67.7 101.5
95 31.7 25.6 38.4

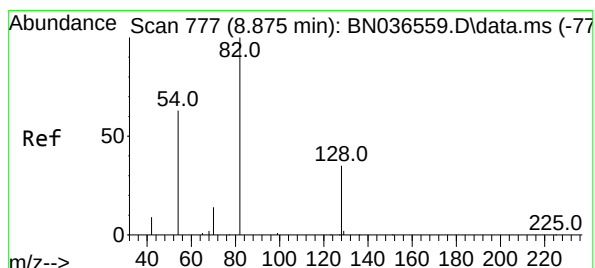
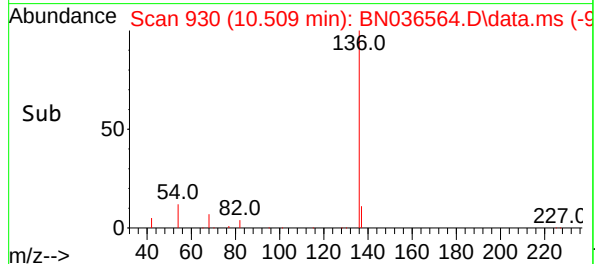
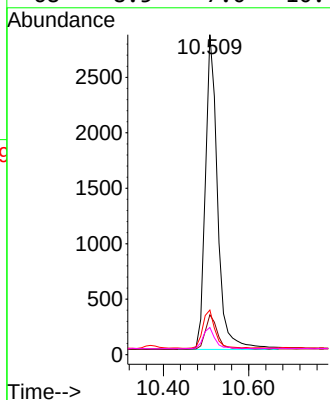
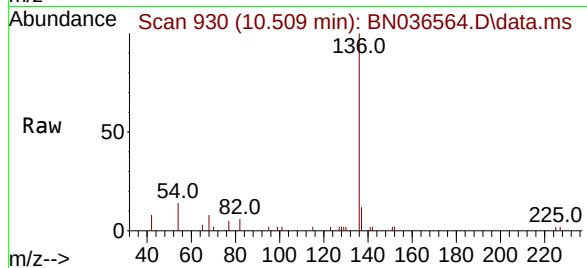




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

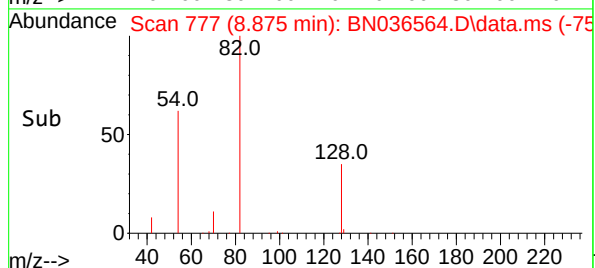
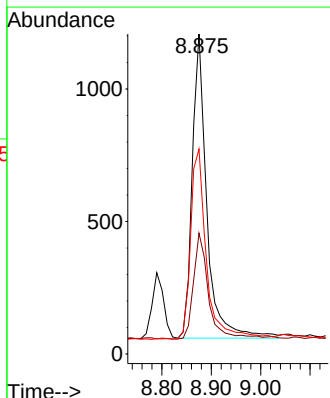
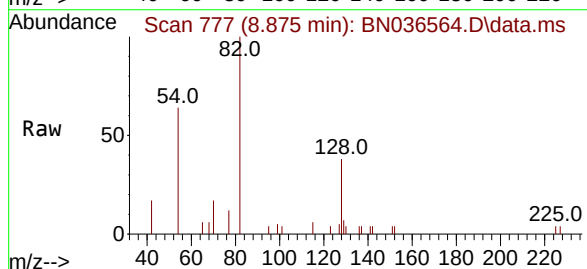
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

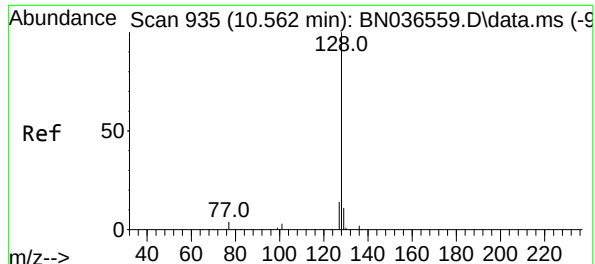
Tgt Ion:	136	Resp:	5634
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:	82	Resp:	2356
Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4

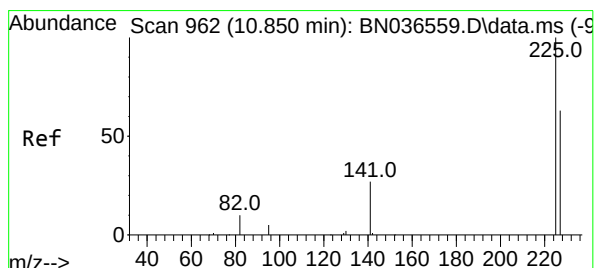
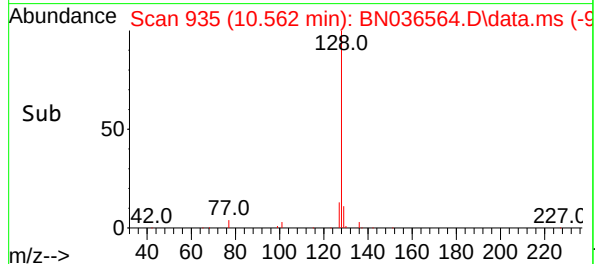
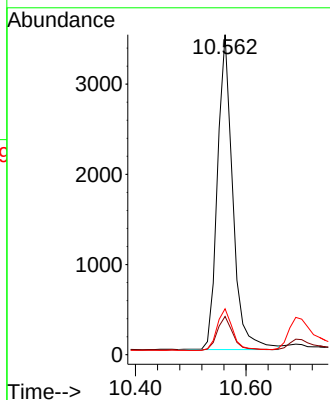
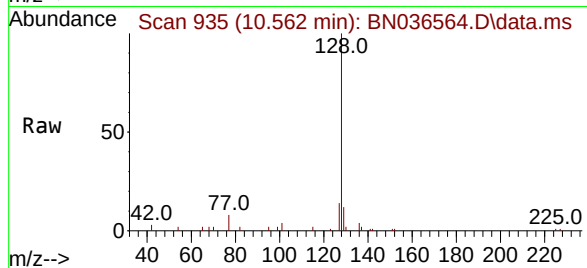




#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

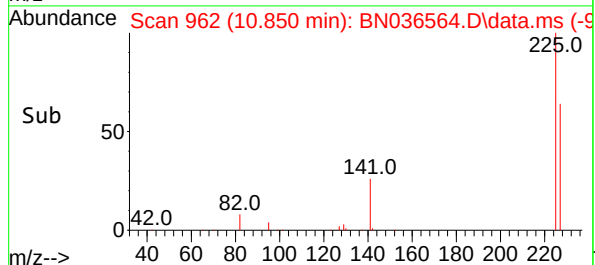
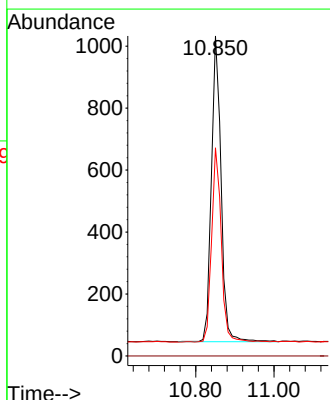
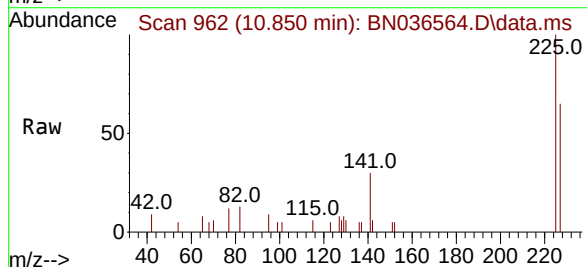
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

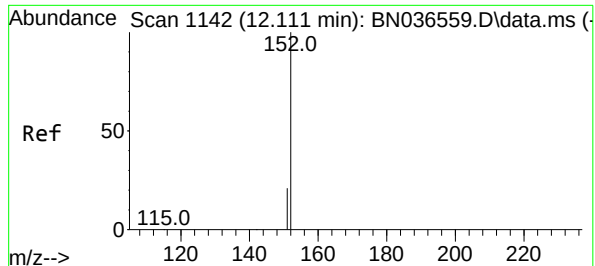
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.3	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8

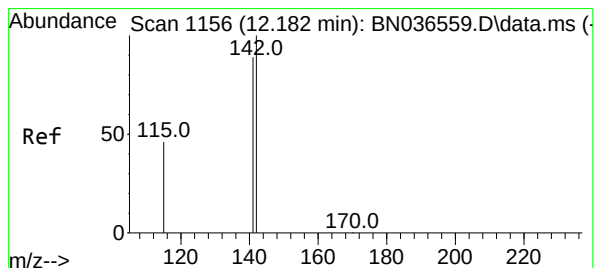
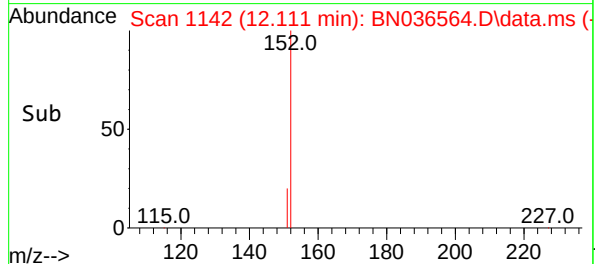
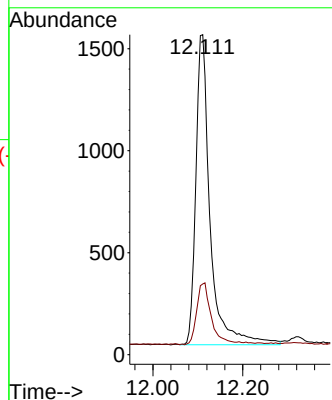
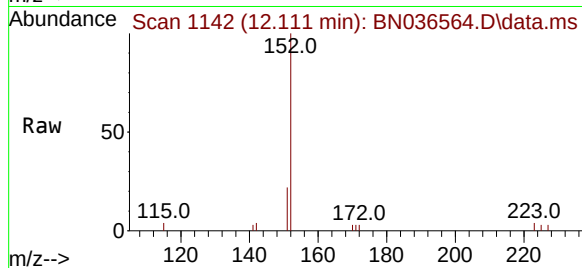




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

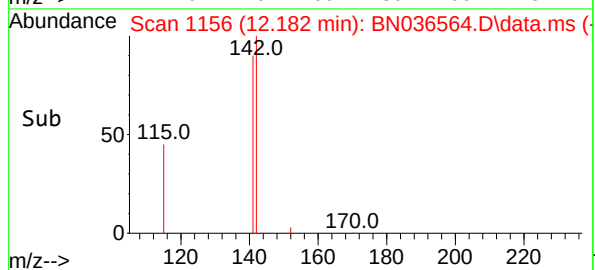
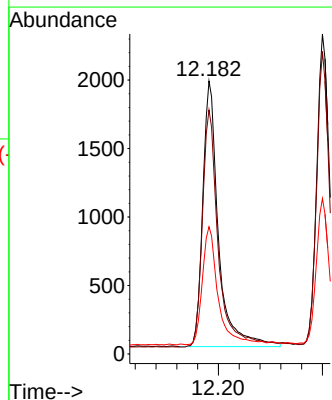
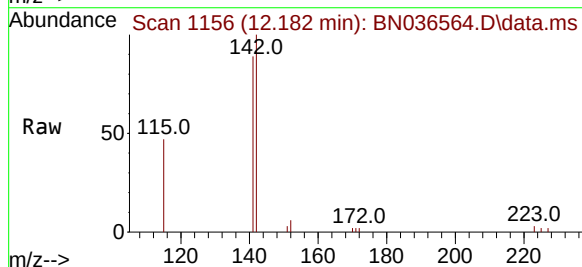
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

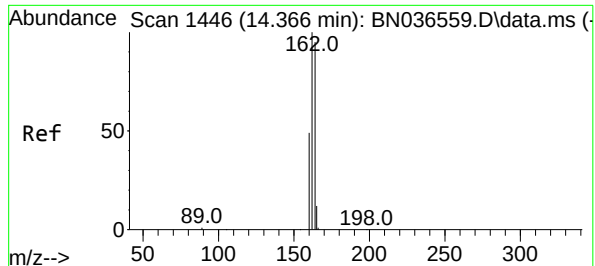
Tgt Ion:152 Resp: 3345
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064
Ion Ratio Lower Upper
142 100
141 89.4 71.7 107.5
115 46.6 38.3 57.5

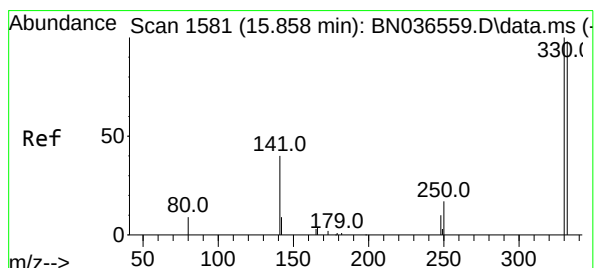
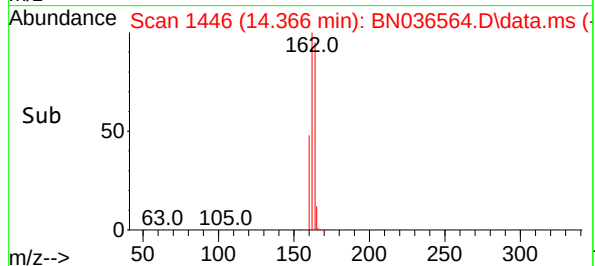
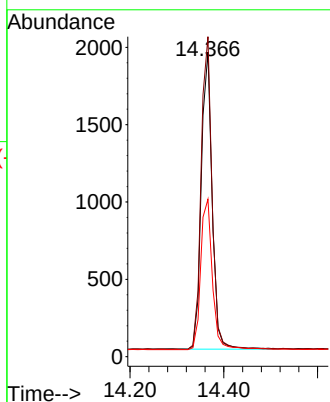
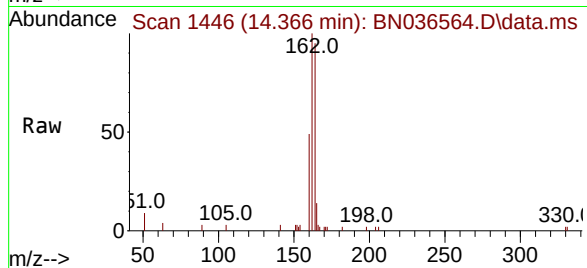




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

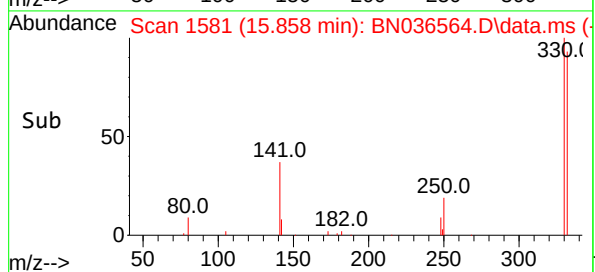
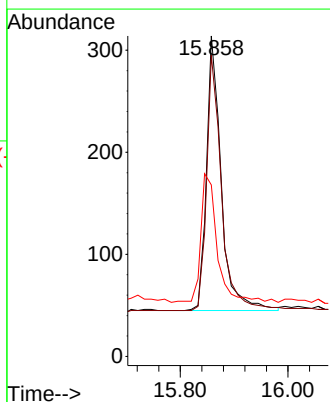
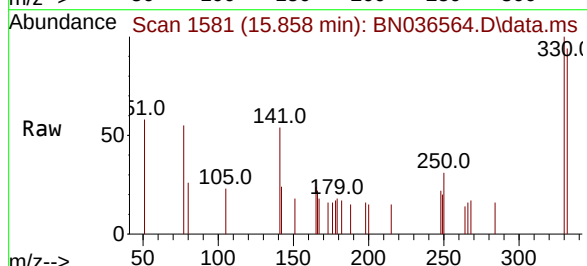
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

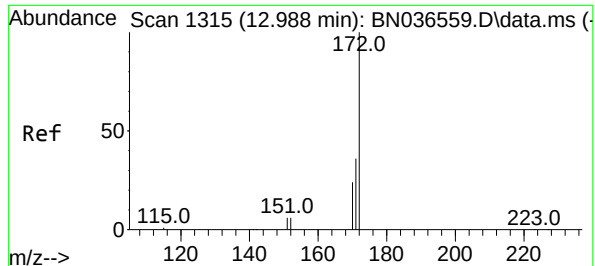
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 0.432 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

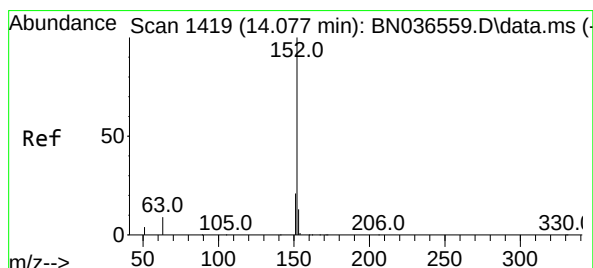
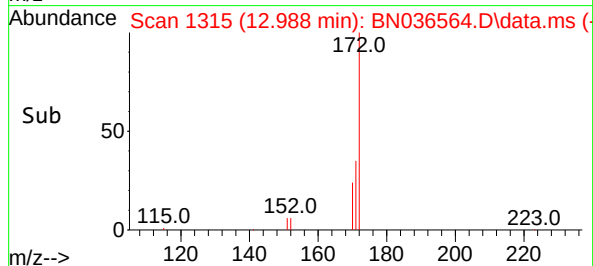
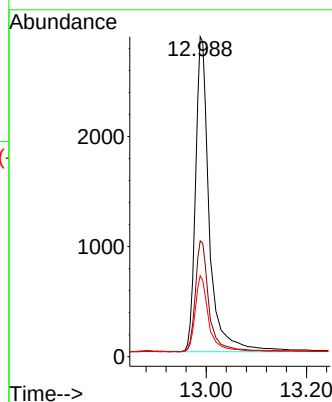
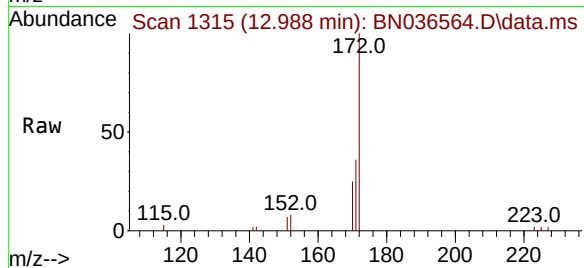
Tgt Ion:172 Resp: 7753

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.416 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

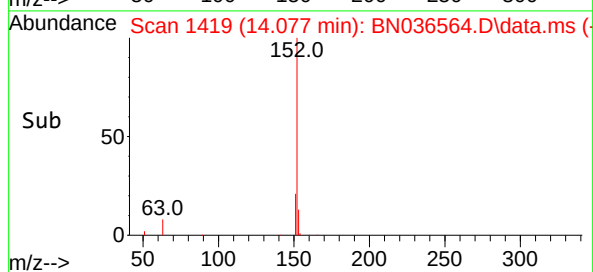
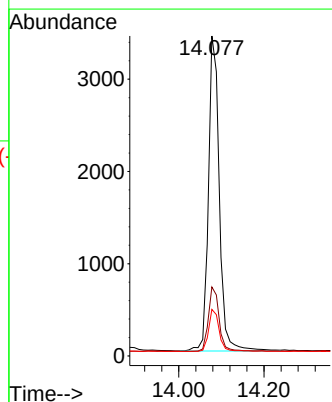
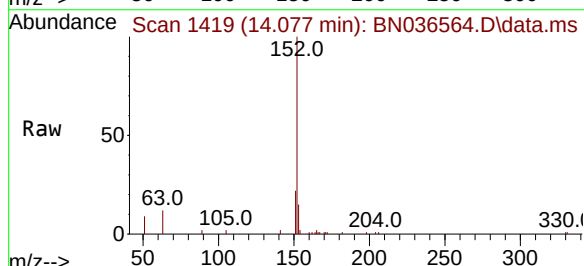
Tgt Ion:152 Resp: 6059

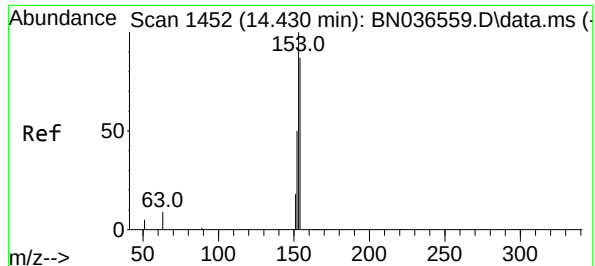
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 12.9 10.6 15.8





#17

Acenaphthene

Concen: 0.423 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

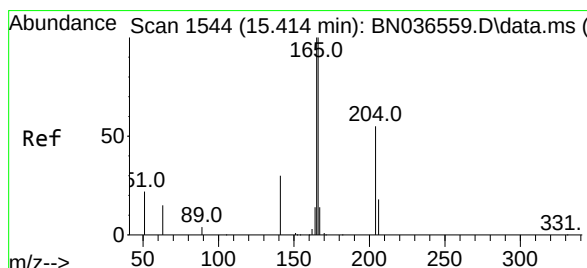
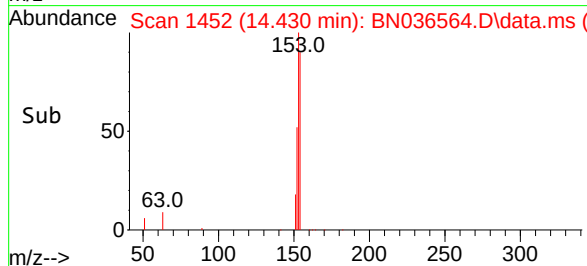
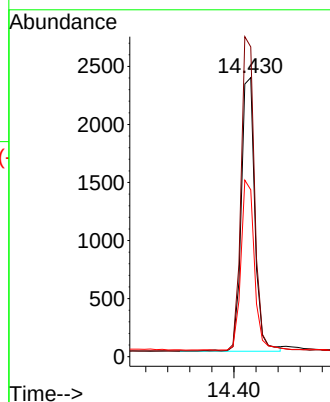
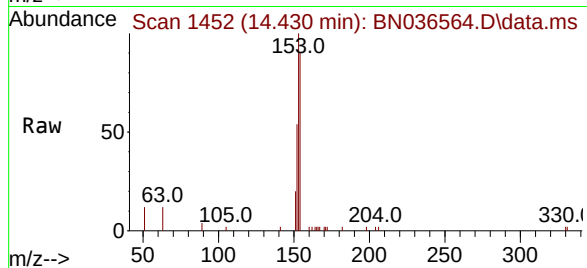
Tgt Ion:154 Resp: 4035

Ion Ratio Lower Upper

154 100

153 115.5 94.1 141.1

152 61.9 49.8 74.6



#18

Fluorene

Concen: 0.405 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

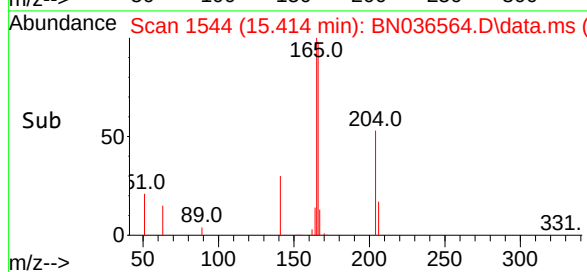
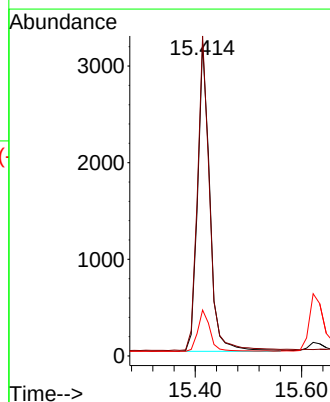
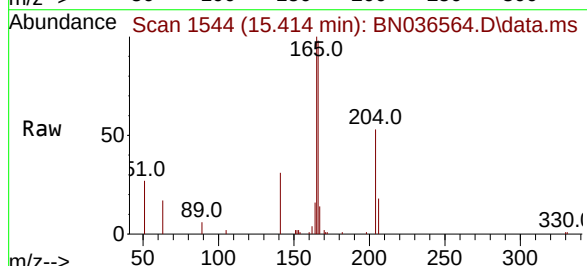
Tgt Ion:166 Resp: 5226

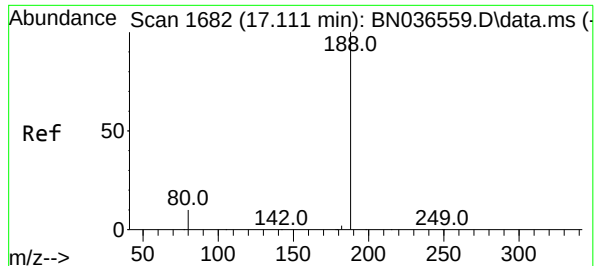
Ion Ratio Lower Upper

166 100

165 101.1 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

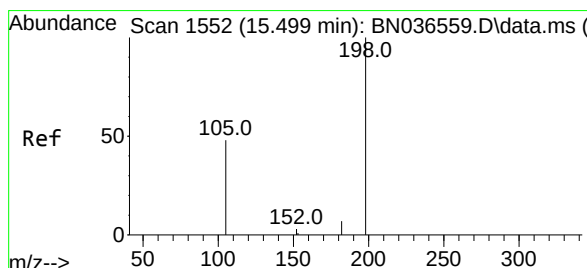
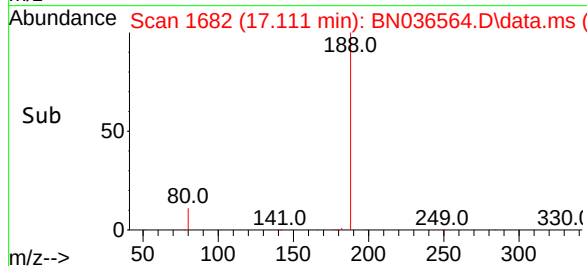
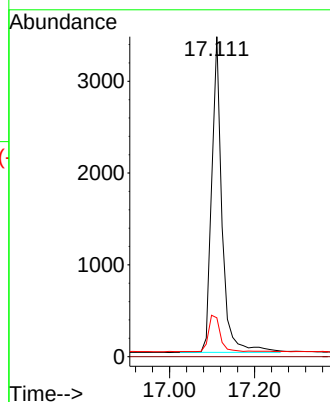
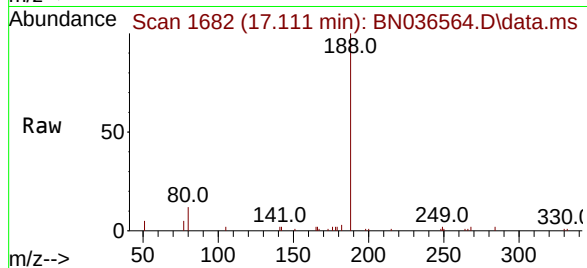
Tgt Ion:188 Resp: 5778

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

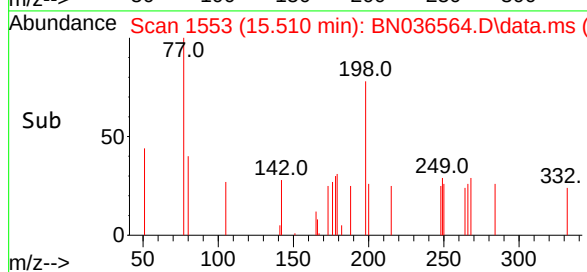
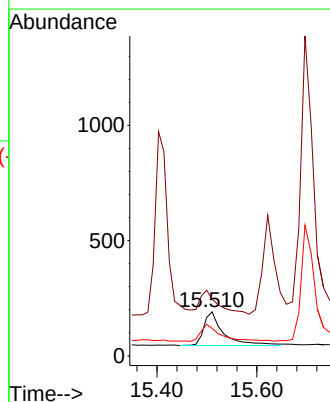
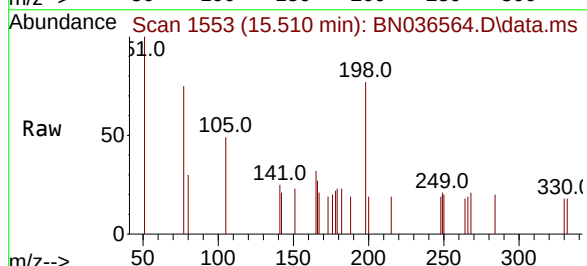
Tgt Ion:198 Resp: 404

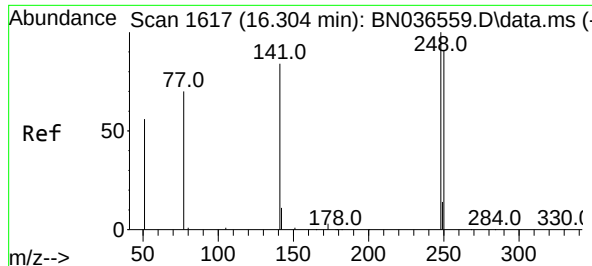
Ion Ratio Lower Upper

198 100

51 129.3 107.9 161.9

105 62.8 56.2 84.2

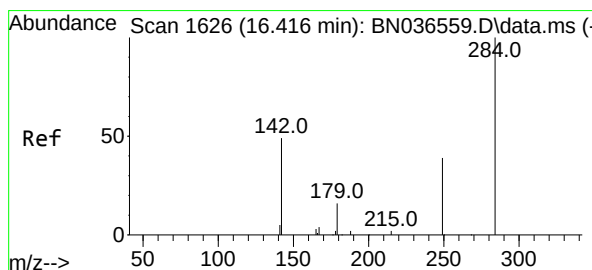
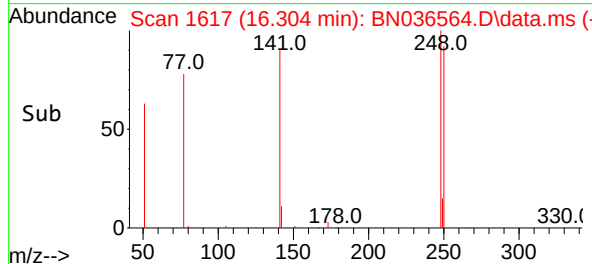
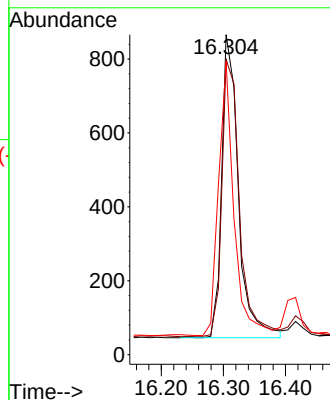
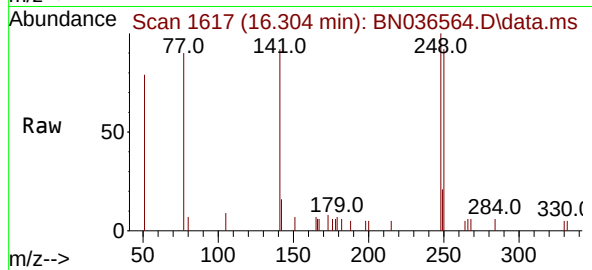




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

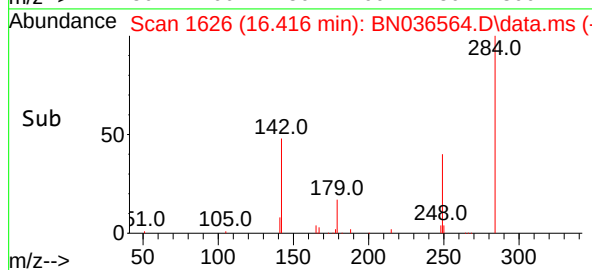
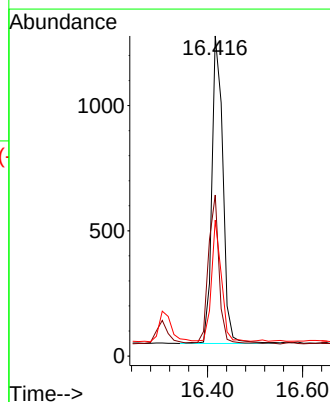
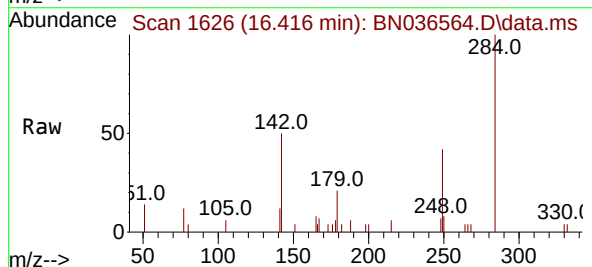
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

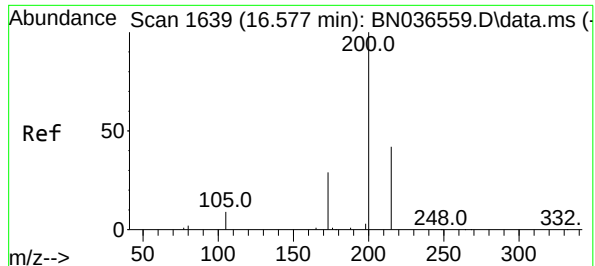
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1

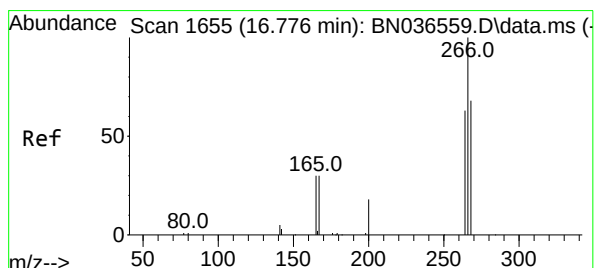
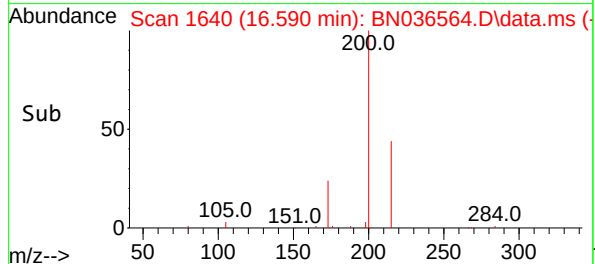
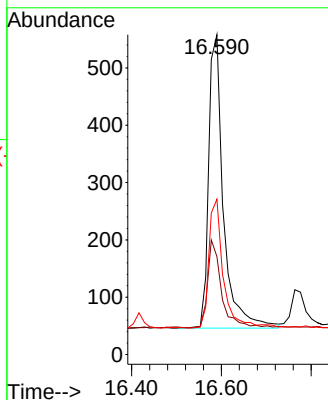
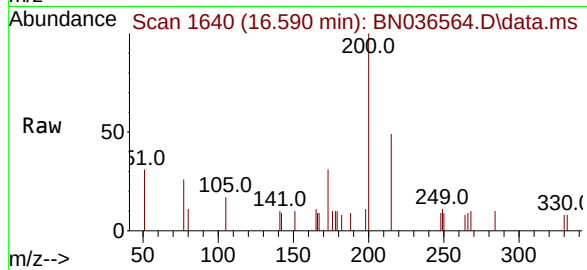




#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

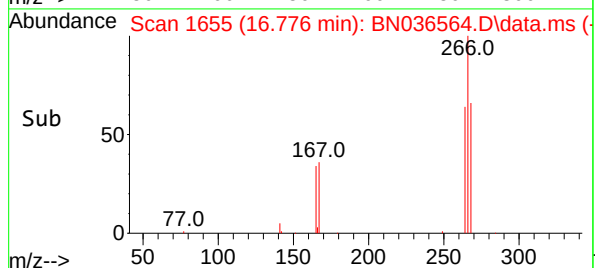
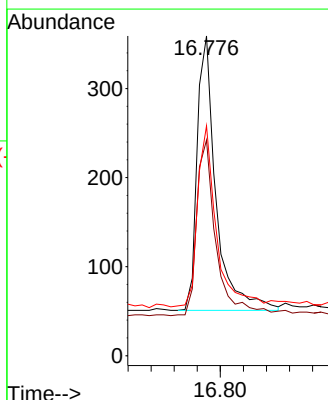
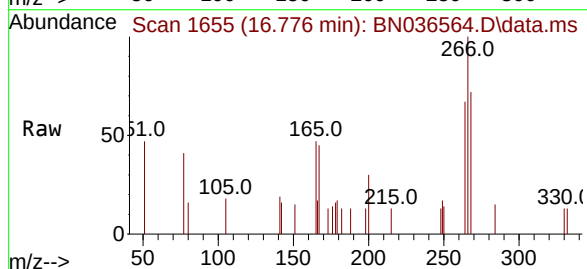
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

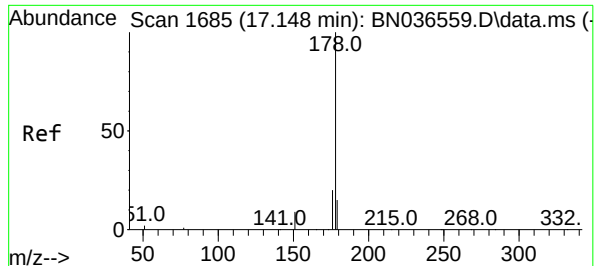
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2



#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3





#25

Phenanthrene

Concen: 0.417 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

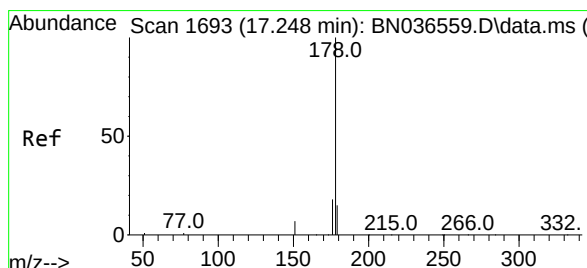
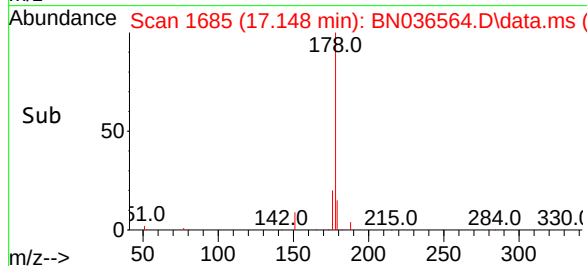
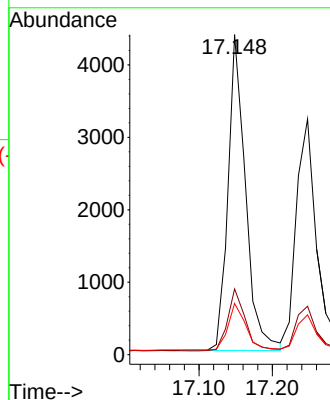
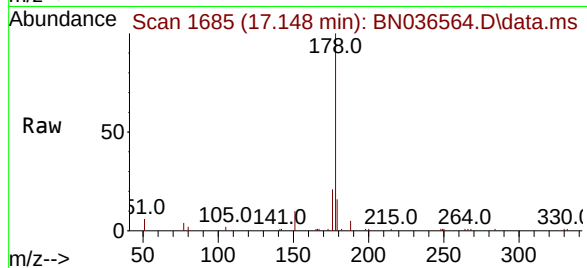
Tgt Ion:178 Resp: 7229

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

179 15.0 12.2 18.4



#26

Anthracene

Concen: 0.407 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

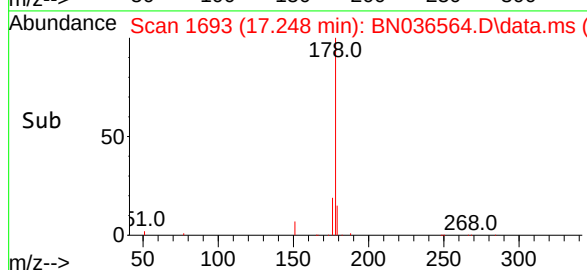
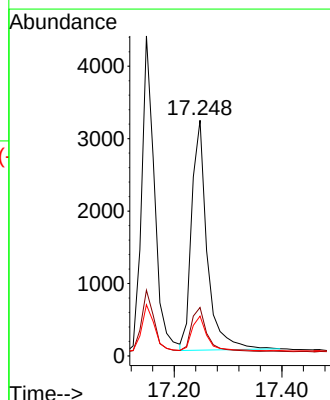
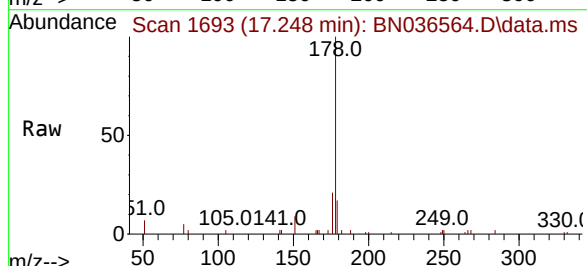
Tgt Ion:178 Resp: 6358

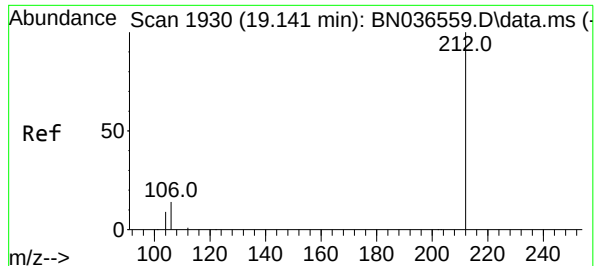
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 14.8 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.415 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

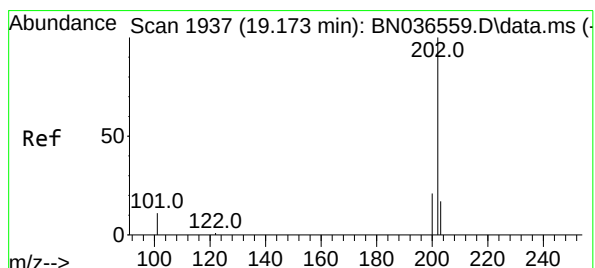
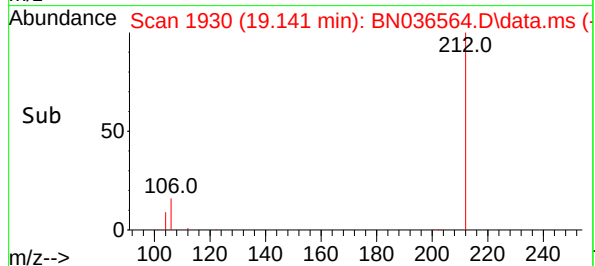
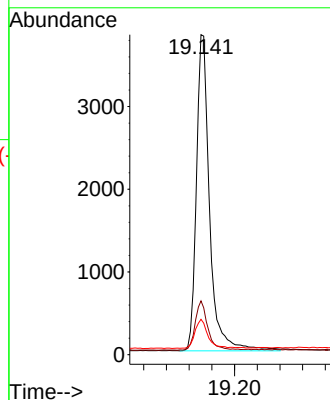
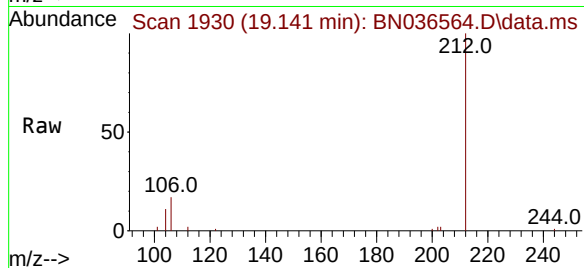
Tgt Ion:212 Resp: 6152

Ion Ratio Lower Upper

212 100

106 14.8 11.8 17.6

104 8.8 7.3 10.9



#28

Fluoranthene

Concen: 0.414 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

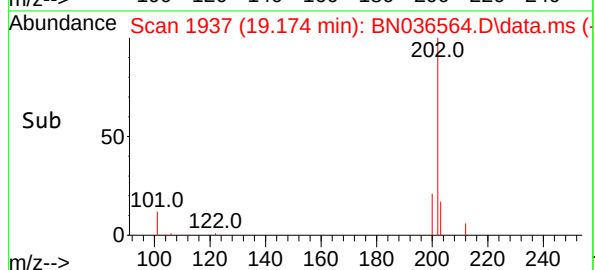
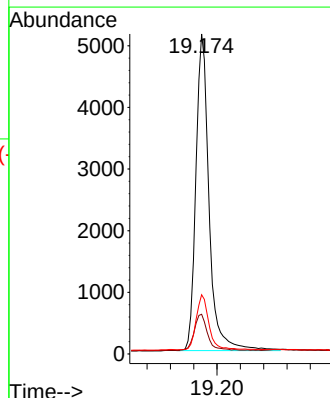
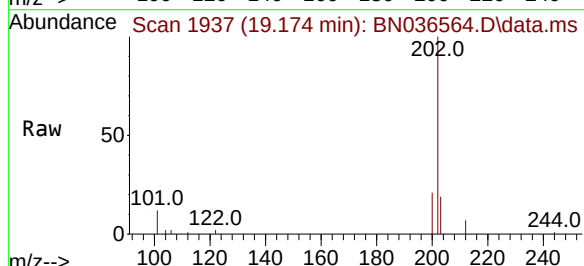
Tgt Ion:202 Resp: 8068

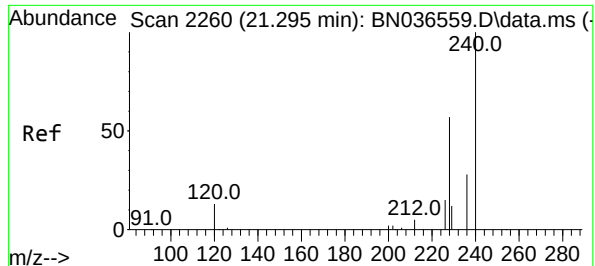
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.0

203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

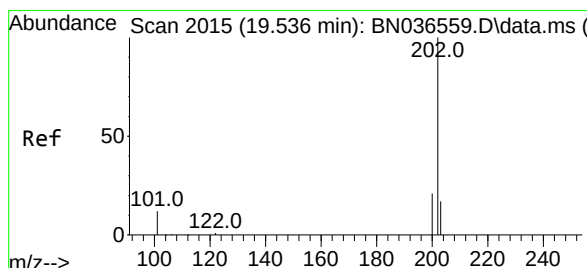
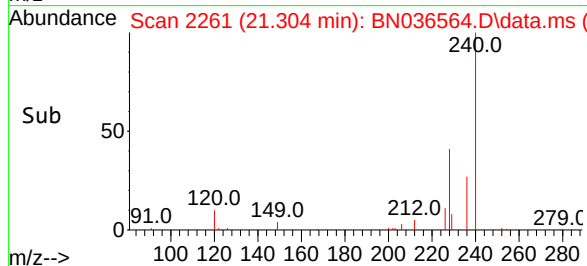
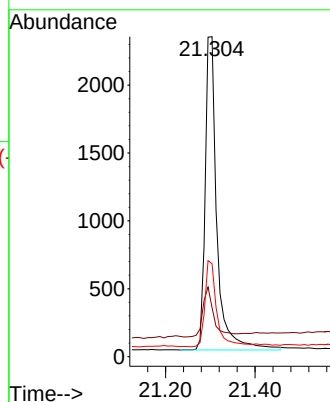
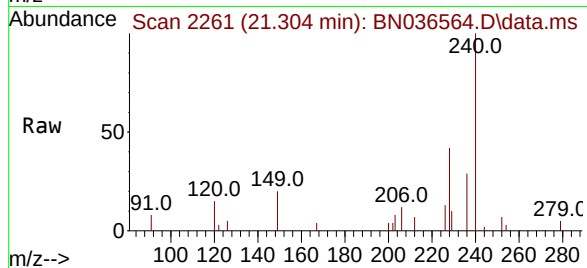
Tgt Ion:240 Resp: 4219

Ion Ratio Lower Upper

240 100

120 15.4 14.6 22.0

236 29.1 24.1 36.1



#30

Pyrene

Concen: 0.395 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

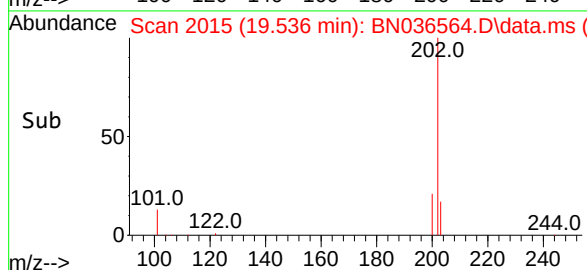
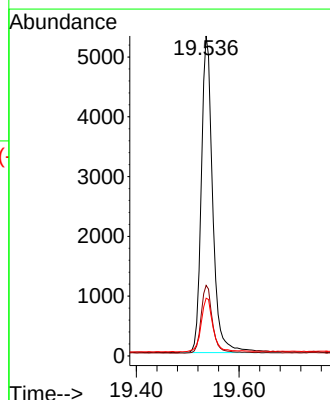
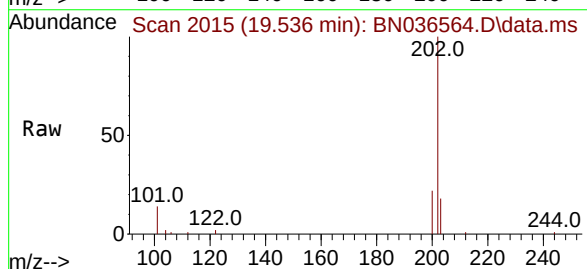
Tgt Ion:202 Resp: 8156

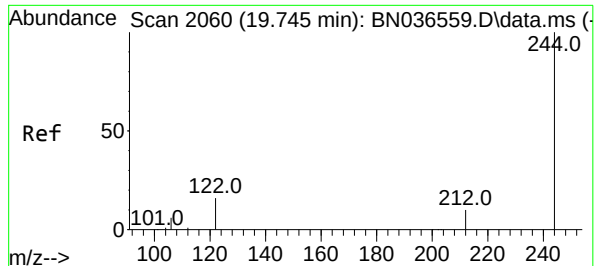
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.4 14.1 21.1

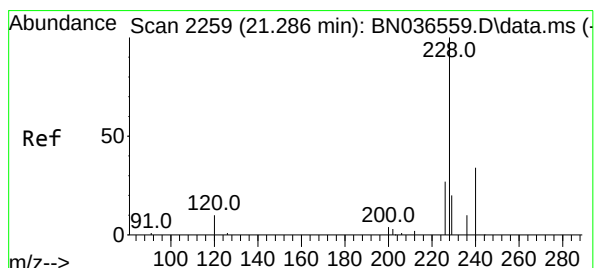
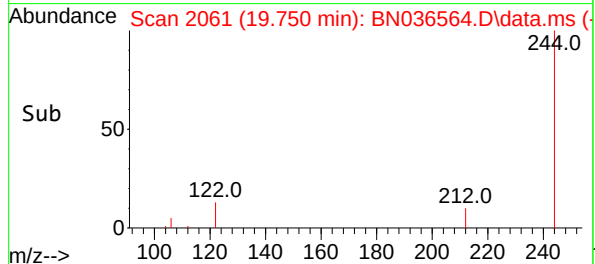
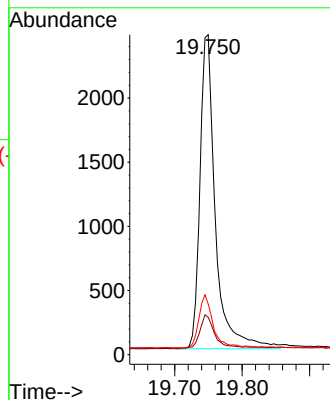
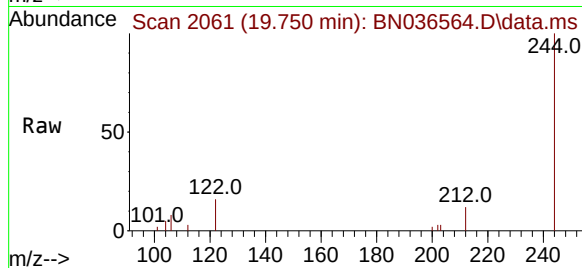




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

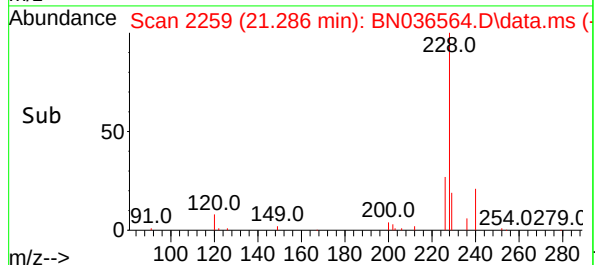
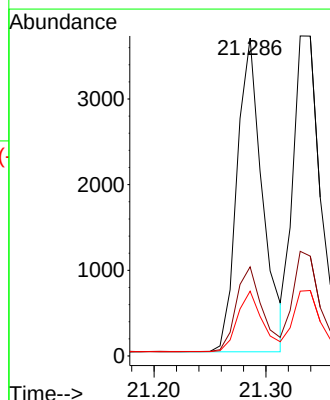
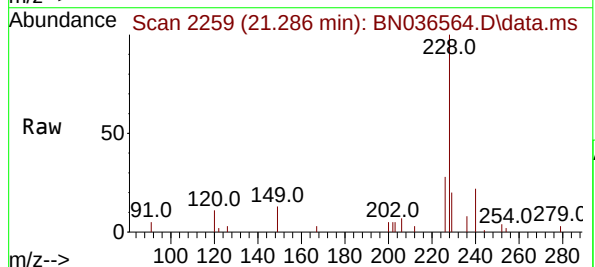
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

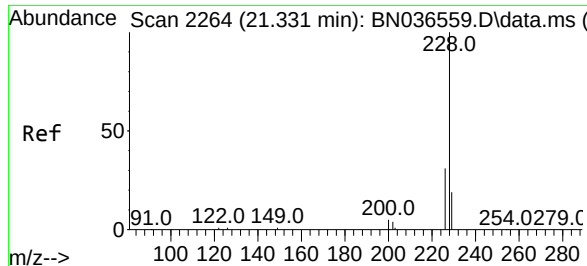
Tgt Ion:244 Resp: 3880
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 15.8 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.433 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

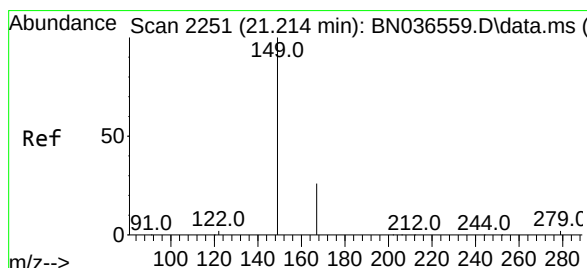
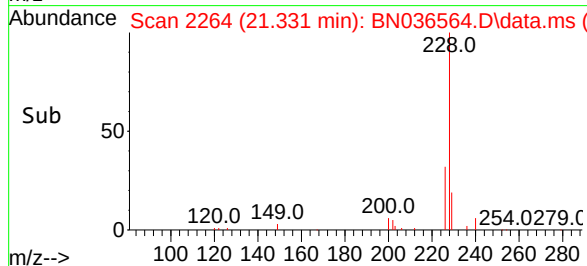
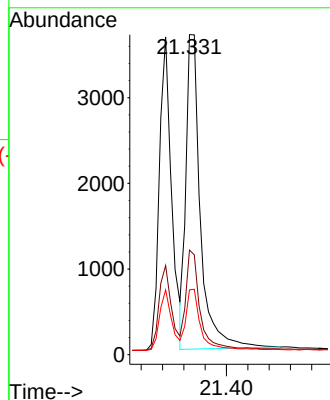
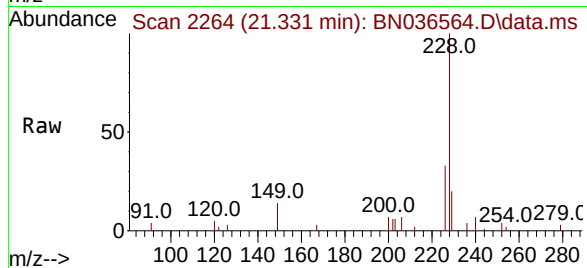
Tgt Ion:228 Resp: 6940

Ion Ratio Lower Upper

228 100

226 32.7 25.3 37.9

229 20.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.344 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

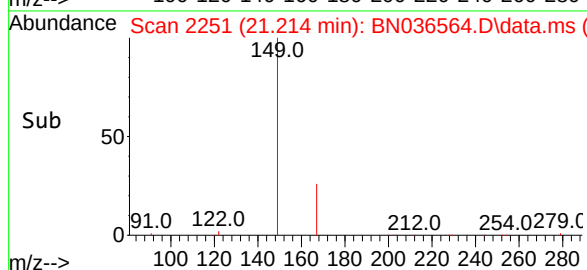
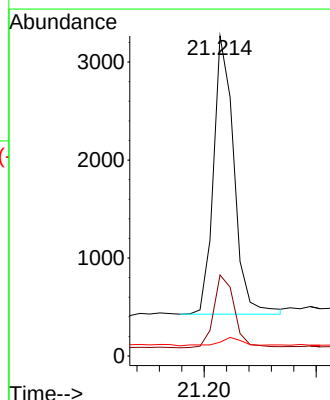
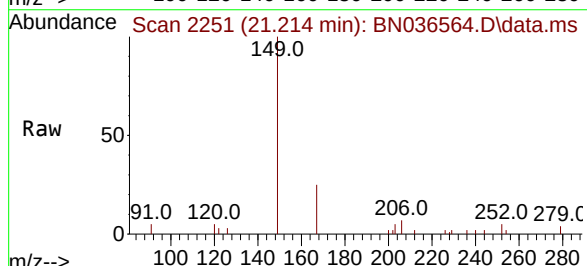
Tgt Ion:149 Resp: 3594

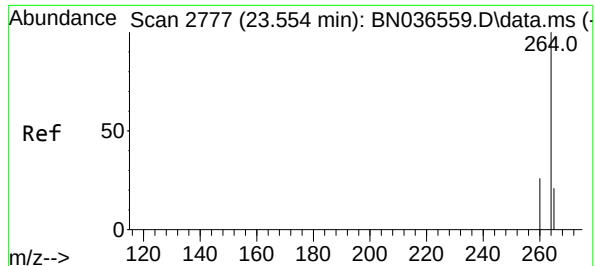
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.7 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

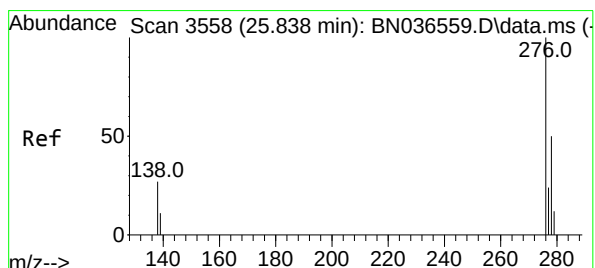
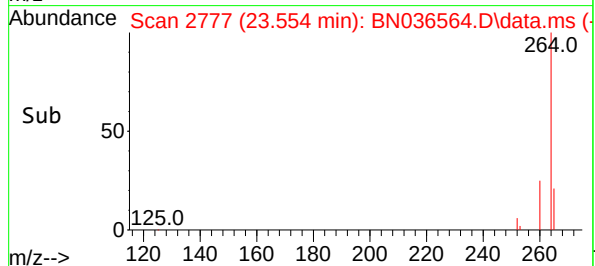
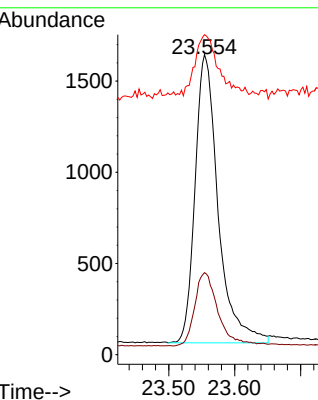
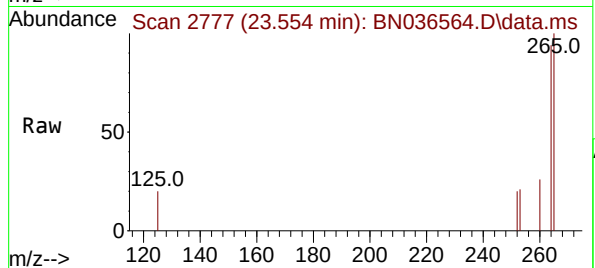
Tgt Ion:264 Resp: 3835

Ion Ratio Lower Upper

264 100

260 27.4 22.6 33.8

265 106.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.463 ng

RT: 25.841 min Scan# 3559

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

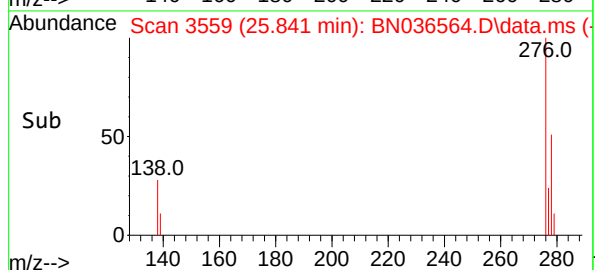
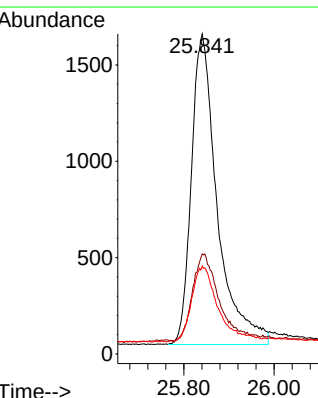
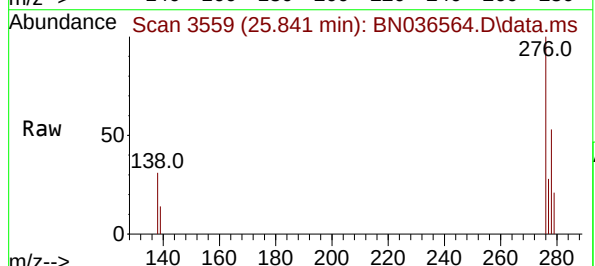
Tgt Ion:276 Resp: 6410

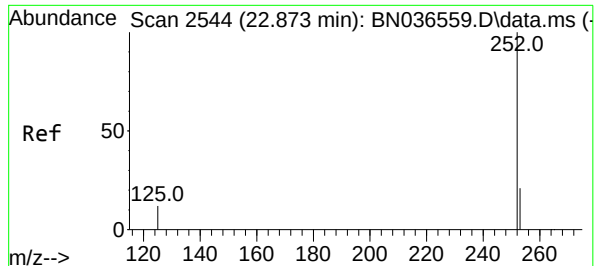
Ion Ratio Lower Upper

276 100

138 28.1 23.4 35.2

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.423 ng

RT: 22.879 min Scan# 2544

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

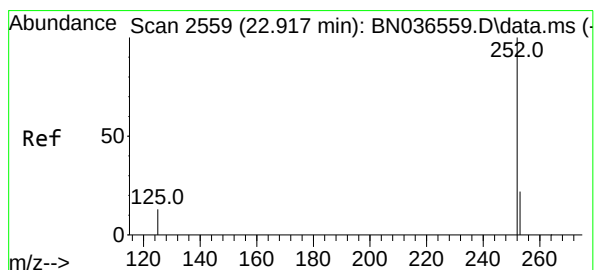
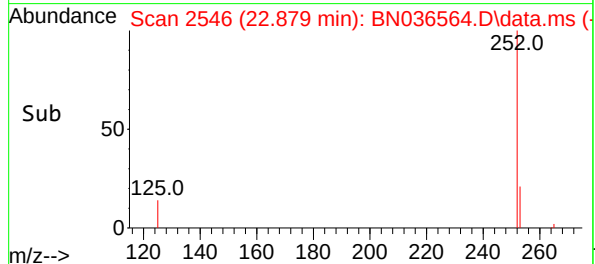
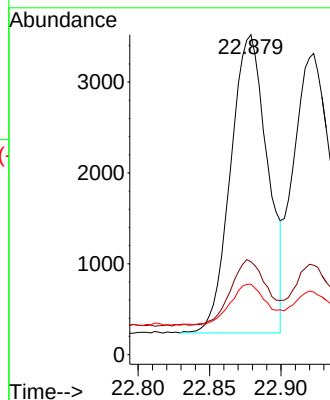
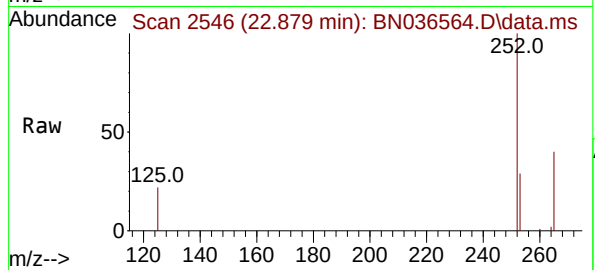
Tgt Ion:252 Resp: 5902

Ion Ratio Lower Upper

252 100

253 29.0 23.9 35.9

125 22.1 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.429 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

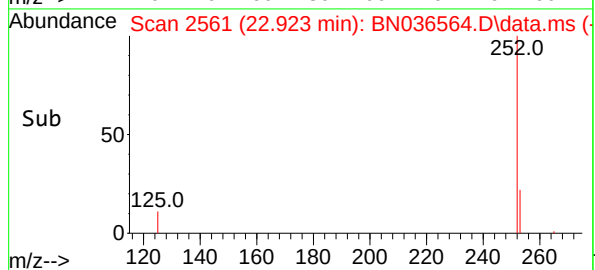
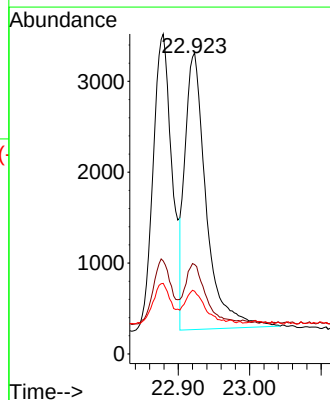
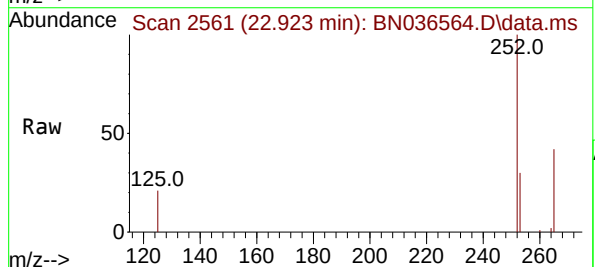
Tgt Ion:252 Resp: 6286

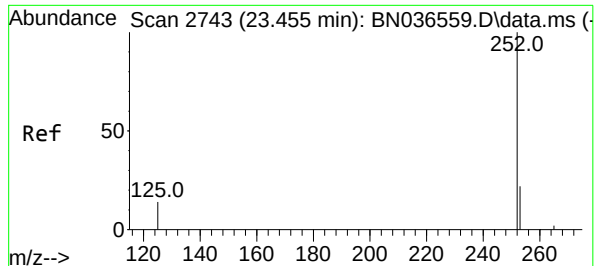
Ion Ratio Lower Upper

252 100

253 29.7 24.6 36.8

125 20.8 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.438 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

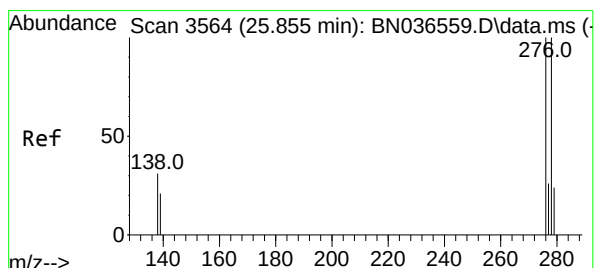
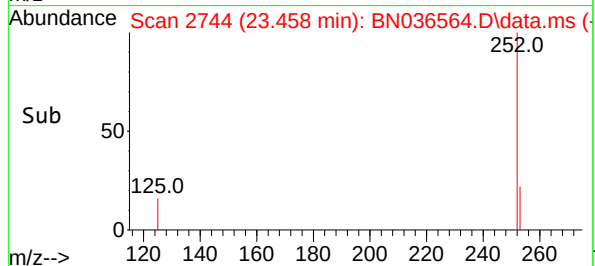
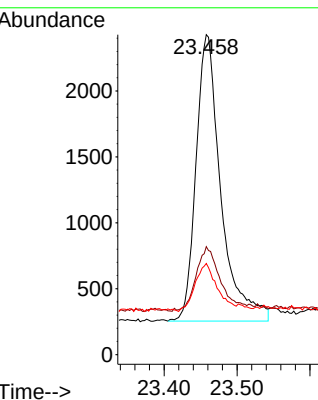
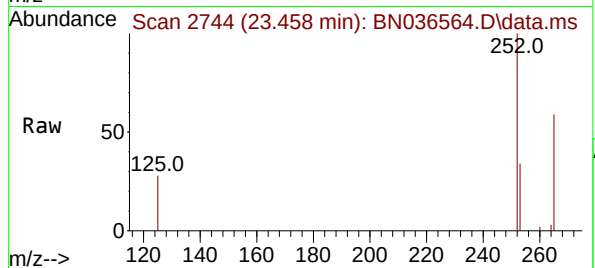
Tgt Ion:252 Resp: 5147

Ion Ratio Lower Upper

252 100

253 33.7 27.8 41.8

125 28.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.440 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

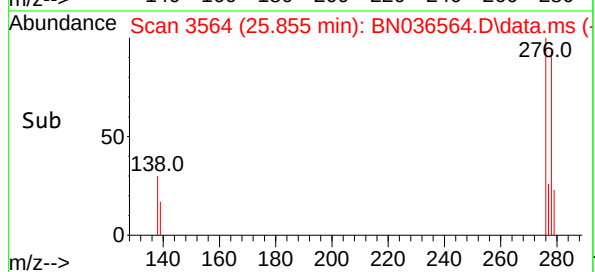
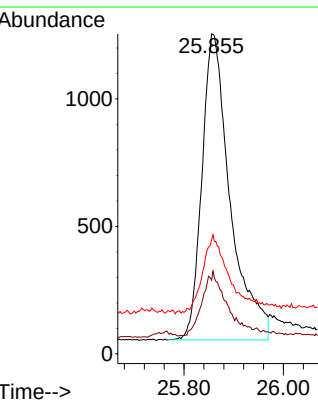
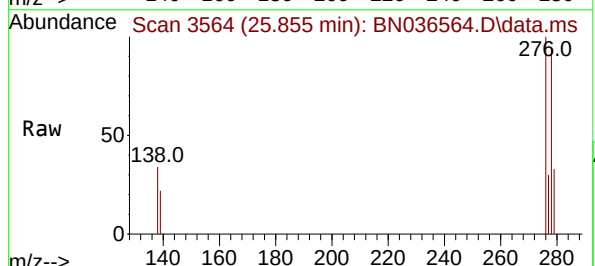
Tgt Ion:278 Resp: 4740

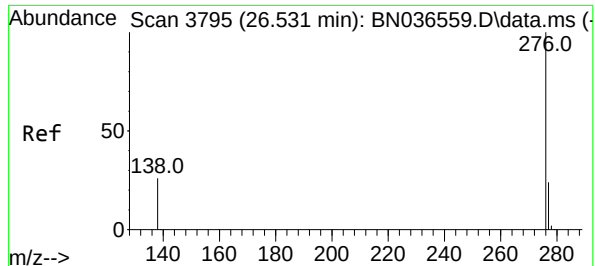
Ion Ratio Lower Upper

278 100

139 23.0 20.8 31.2

279 35.5 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.477 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036564.D

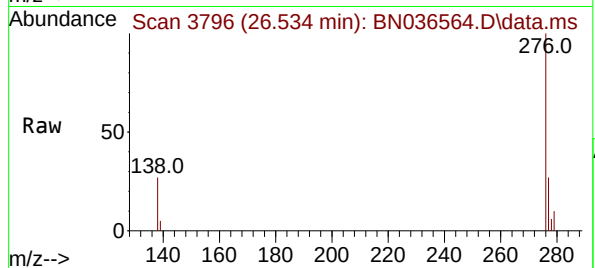
Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025



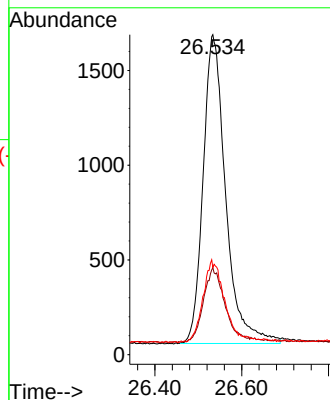
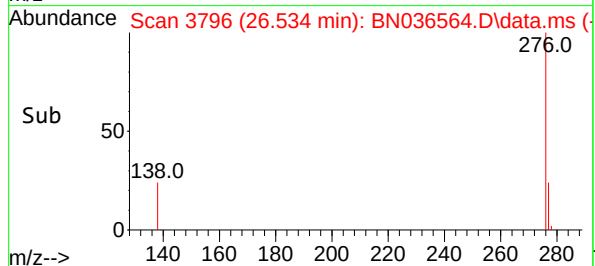
Tgt Ion:276 Resp: 5877

Ion Ratio Lower Upper

276 100

277 27.2 22.2 33.4

138 27.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3	n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4 S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5 S	Phenol-d6	1.152	1.103	4.3	110	0.00
6	bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9	Naphthalene	1.177	1.191	-1.2	109	0.00
10	Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12	2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15 S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16	Acenaphthylene	1.888	1.964	-4.0	103	0.00
17	Acenaphthene	1.236	1.308	-5.8	104	0.00
18	Fluorene	1.672	1.694	-1.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22	Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23	Atrazine	0.201	0.202	-0.5	91	0.01
24	Pentachlorophenol	0.138	0.121	12.3	85	0.00
25	Phenanthrene	1.200	1.251	-4.2	93	0.00
26	Anthracene	1.083	1.100	-1.6	92	0.00
27 SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28	Fluoranthene	1.348	1.396	-3.6	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.956	1.933	1.2	93	0.00
31 S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32	Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33	Chrysene	1.520	1.645	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37	Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38	Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39 C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41	Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5 S	Phenol-d6	0.400	0.383	4.3	110	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9	Naphthalene	0.400	0.405	-1.3	109	0.00
10	Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16	Acenaphthylene	0.400	0.416	-4.0	103	0.00
17	Acenaphthene	0.400	0.423	-5.7	104	0.00
18	Fluorene	0.400	0.405	-1.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22	Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23	Atrazine	0.400	0.401	-0.3	91	0.01
24	Pentachlorophenol	0.400	0.351	12.3	85	0.00
25	Phenanthrene	0.400	0.417	-4.2	93	0.00
26	Anthracene	0.400	0.407	-1.7	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28	Fluoranthene	0.400	0.414	-3.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.395	1.3	93	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33	Chrysene	0.400	0.433	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37	Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38	Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39 C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	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.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/10/2025 21:26

Lab File ID: BN036572.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.585		-1.7	50.0
Fluoranthene-d10	1.025	1.071		4.5	50.0
2-Fluorophenol	0.932	0.968		3.9	50.0
Phenol-d6	1.152	1.112		-3.5	50.0
Nitrobenzene-d5	0.435	0.405		-6.9	50.0
2-Fluorobiphenyl	2.327	2.408		3.5	50.0
2,4,6-Tribromophenol	0.182	0.171		-6.0	50.0
Terphenyl-d14	0.958	0.947		-1.1	50.0
1,4-Dioxane	0.444	0.520		17.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036572.D
 Acq On : 10 Mar 2025 21:26
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/11/2025
 Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 11 00:53:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2507	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5839	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3266	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6207	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4431m	0.400	ng	0.00
35) Perylene-d12	23.552	264	4016	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2426	0.415	ng	0.00
5) Phenol-d6	6.894	99	2788	0.386	ng	0.00
8) Nitrobenzene-d5	8.875	82	2365	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3417	0.393	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	560	0.378	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7865	0.414	ng	0.00
27) Fluoranthene-d10	19.141	212	6646	0.418	ng	0.00
31) Terphenyl-d14	19.745	244	4195	0.395	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	1303	0.469	ng	96
3) n-Nitrosodimethylamine	3.557	42	2276	0.405	ng	94
6) bis(2-Chloroethyl)ether	7.147	93	2938	0.394	ng	99
9) Naphthalene	10.562	128	6870	0.400	ng	100
10) Hexachlorobutadiene	10.851	225	1723	0.426	ng	# 99
12) 2-Methylnaphthalene	12.182	142	4313	0.395	ng	99
16) Acenaphthylene	14.078	152	6346	0.412	ng	100
17) Acenaphthene	14.420	154	4153	0.412	ng	99
18) Fluorene	15.414	166	5592	0.410	ng	99
20) 4,6-Dinitro-2-methylph...	15.500	198	439	0.423	ng	99
21) 4-Bromophenyl-phenylether	16.305	248	1638	0.421	ng	94
22) Hexachlorobenzene	16.416	284	2099	0.447	ng	98
23) Atrazine	16.578	200	1291	0.414	ng	98
24) Pentachlorophenol	16.764	266	802	0.375	ng	100
25) Phenanthrene	17.149	178	7873	0.423	ng	99
26) Anthracene	17.248	178	6961	0.414	ng	99
28) Fluoranthene	19.169	202	8718	0.417	ng	100
30) Pyrene	19.536	202	8800	0.406	ng	100
32) Benzo(a)anthracene	21.277	228	5953	0.386	ng	98
33) Chrysene	21.331	228	7391	0.439	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3997	0.364	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	6596	0.455	ng	98
37) Benzo(b)fluoranthene	22.873	252	6161	0.422	ng	98
38) Benzo(k)fluoranthene	22.917	252	6664m	0.435	ng	
39) Benzo(a)pyrene	23.455	252	5508	0.448	ng	97
40) Dibenzo(a,h)anthracene	25.852	278	5154	0.457	ng	95
41) Benzo(g,h,i)perylene	26.522	276	5982	0.463	ng	98

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

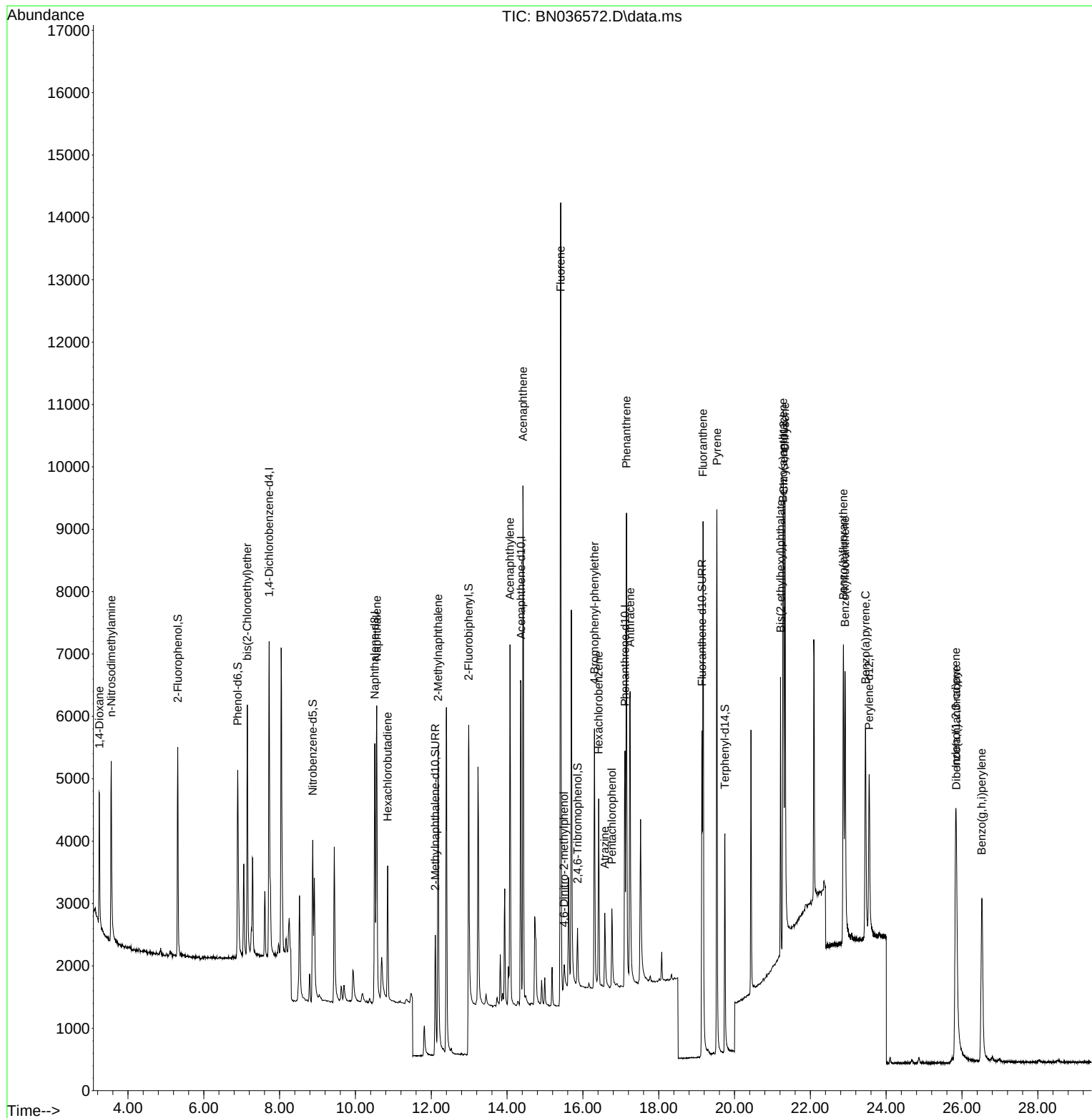
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036572.D
Acq On : 10 Mar 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

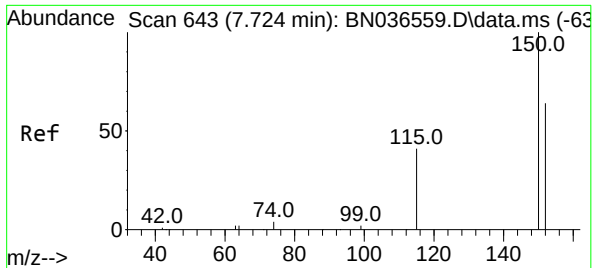
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

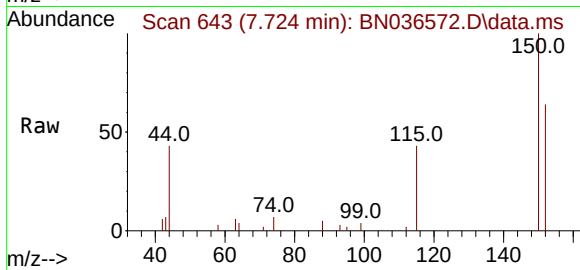
Quant Time: Mar 11 00:53:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

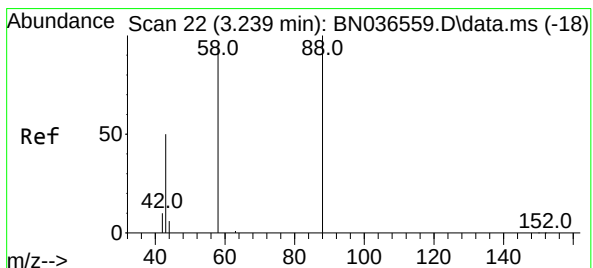
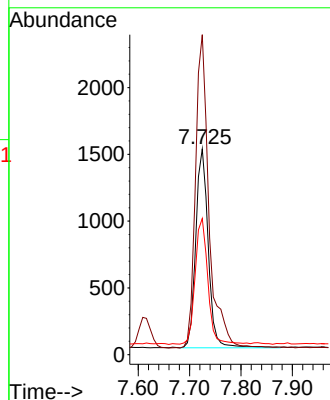
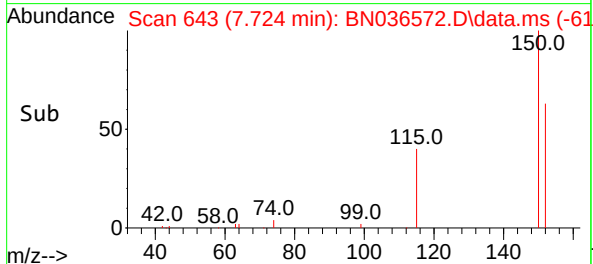
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



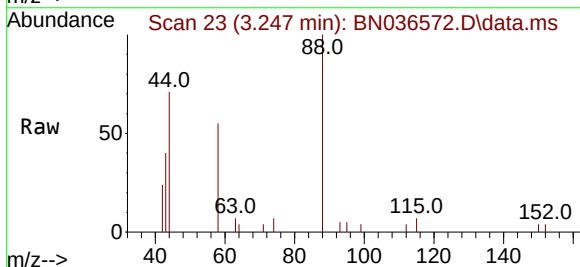
Tgt Ion: 152 Resp: 250
Ion Ratio Lower Upper
152 100
150 155.5 123.7 185.5
115 66.2 54.3 81.5

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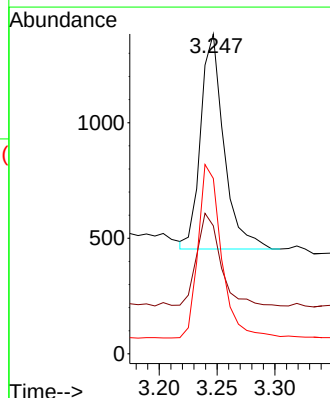
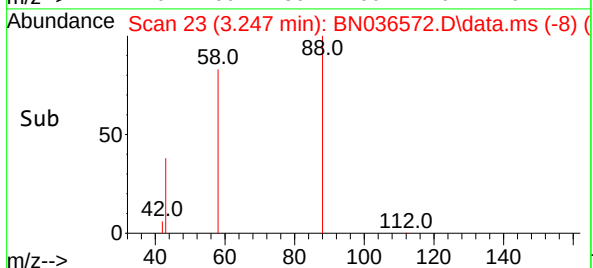
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

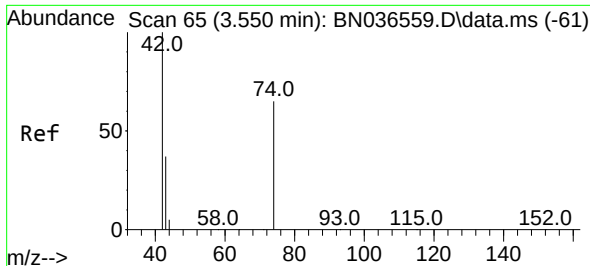


#2
1,4-Dioxane
Concen: 0.469 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



Tgt Ion: 88 Resp: 1303
Ion Ratio Lower Upper
88 100
43 44.7 37.8 56.8
58 81.1 67.4 101.2





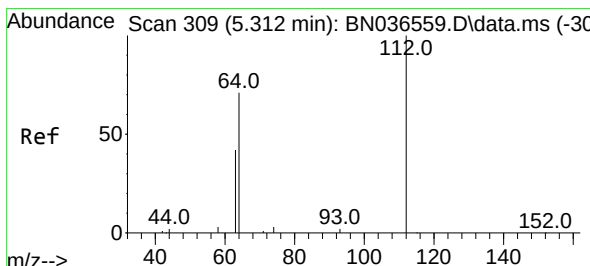
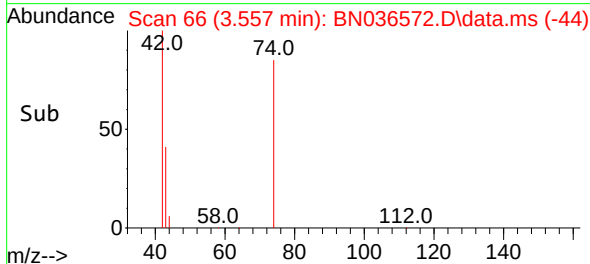
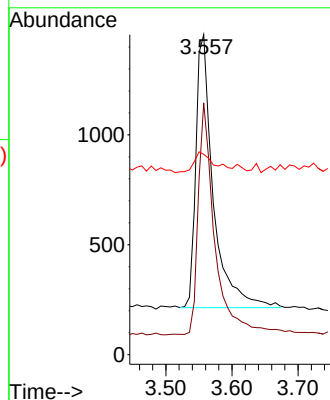
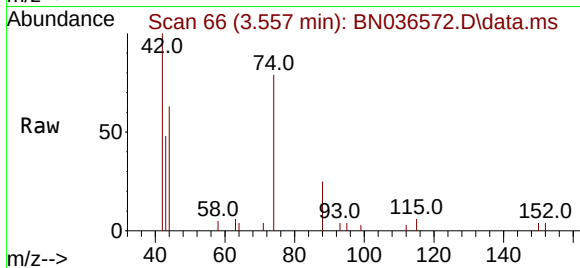
#3
n-Nitrosodimethylamine
Concen: 0.405 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2270
Ion Ratio Lower Upper
42 100
74 81.4 60.6 90.8
44 8.8 6.3 9.5

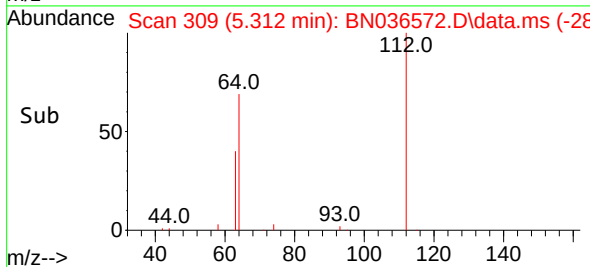
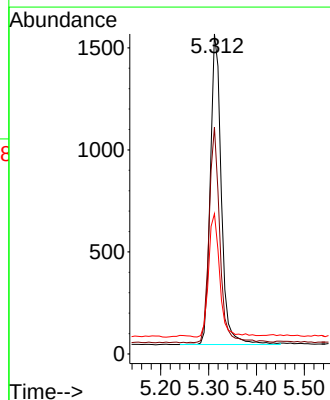
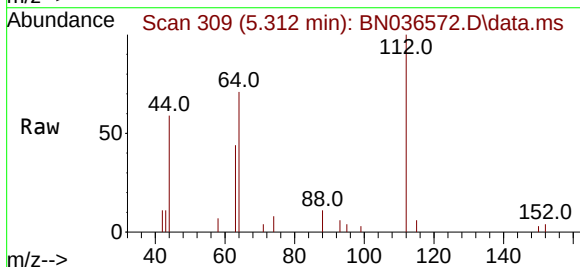
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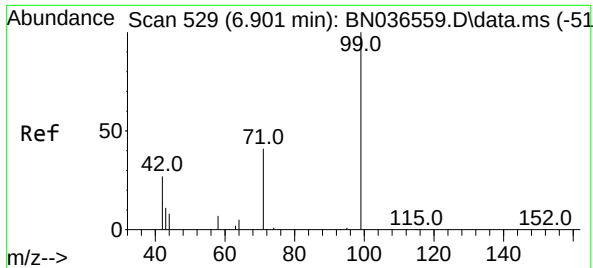
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4
2-Fluorophenol
Concen: 0.415 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:112 Resp: 2426
Ion Ratio Lower Upper
112 100
64 68.0 53.1 79.7
63 39.7 31.8 47.8





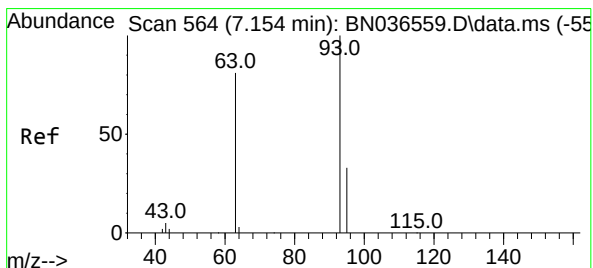
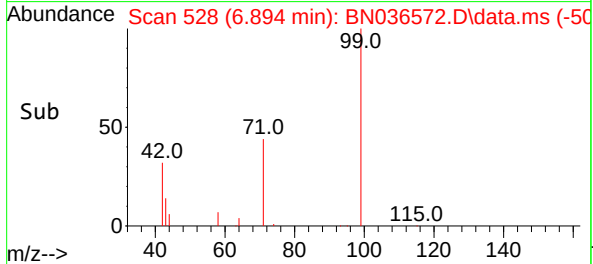
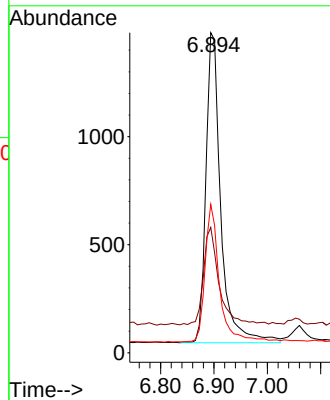
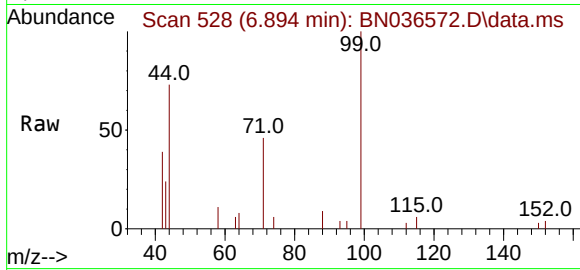
#5
Phenol-d6
Concen: 0.386 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2788
Ion Ratio Lower Upper
99 100
42 33.0 26.5 39.7
71 42.7 34.1 51.1

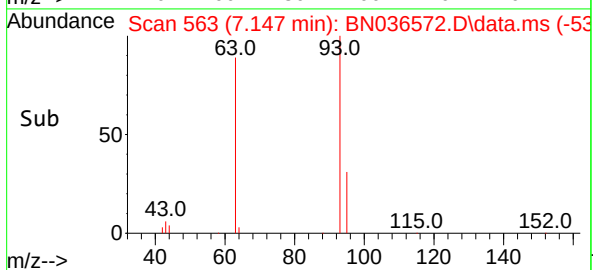
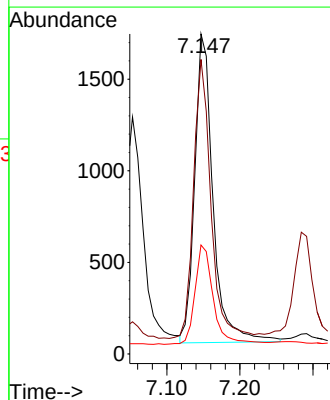
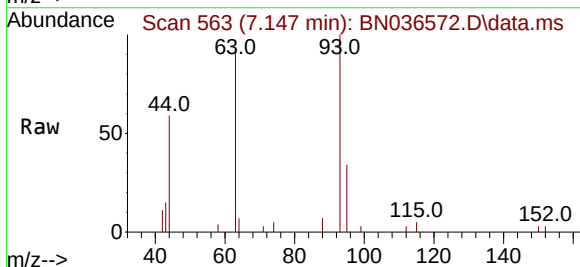
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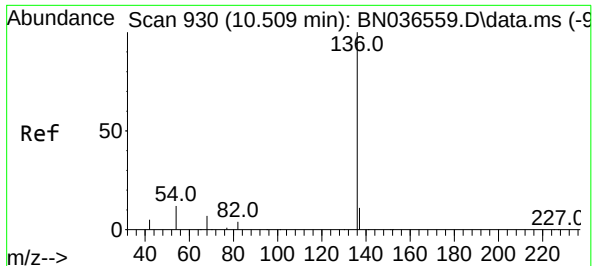
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

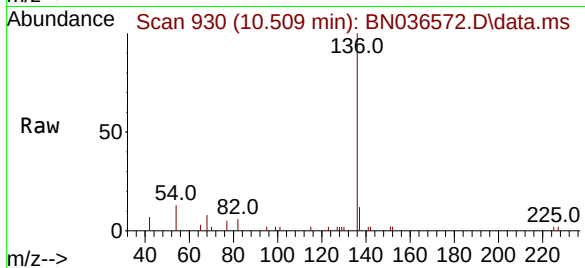
Tgt Ion: 93 Resp: 2938
Ion Ratio Lower Upper
93 100
63 85.4 67.7 101.5
95 32.1 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

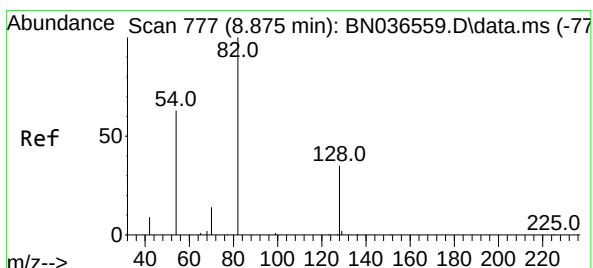
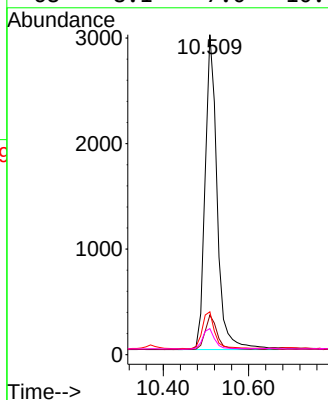
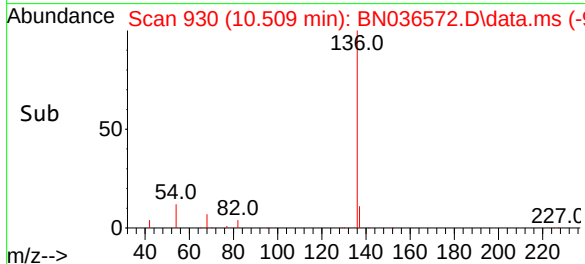
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 136 Resp: 5839
Ion Ratio Lower Upper
136 100
137 12.4 10.3 15.5
54 13.4 11.5 17.3
68 8.1 7.0 10.4

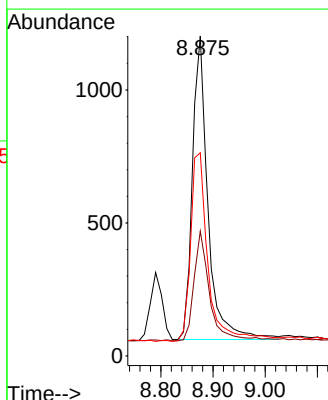
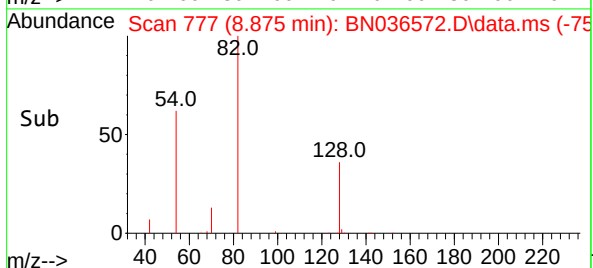
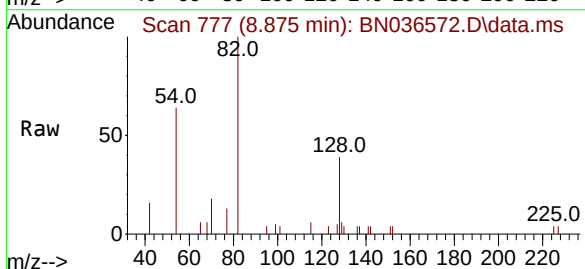
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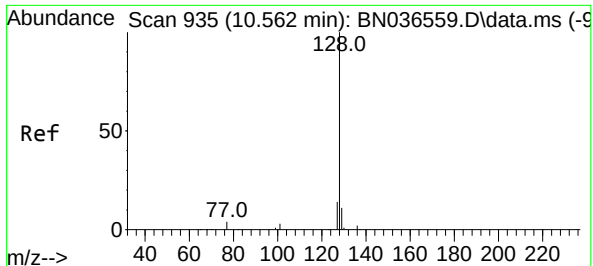
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion: 82 Resp: 2365
Ion Ratio Lower Upper
82 100
128 39.0 30.6 45.8
54 63.5 52.2 78.4





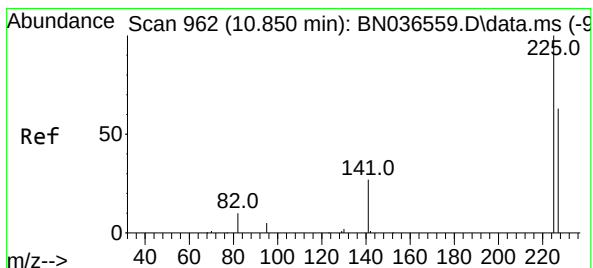
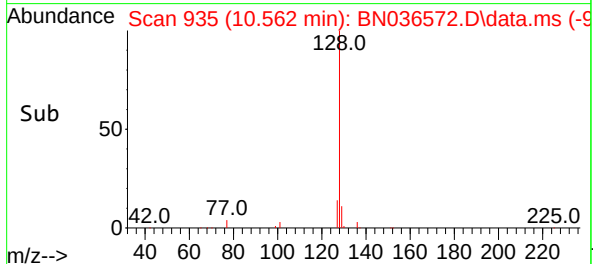
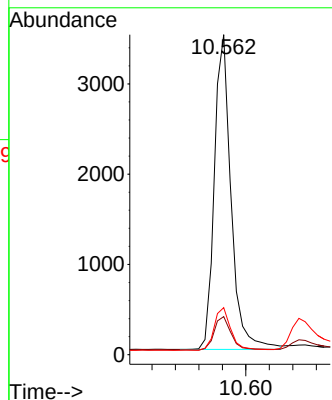
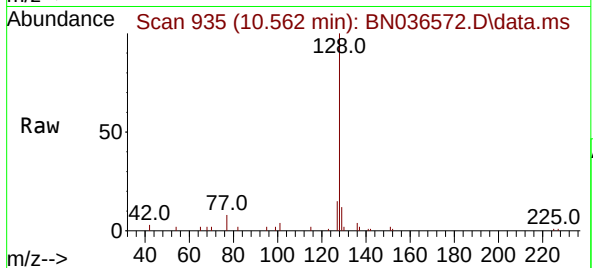
#9
Naphthalene
Concen: 0.400 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 6870
Ion Ratio Lower Upper
128 100
129 11.9 9.8 14.6
127 14.7 11.8 17.8

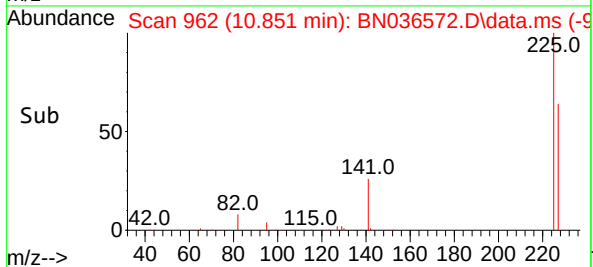
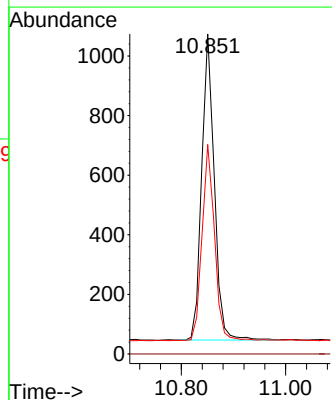
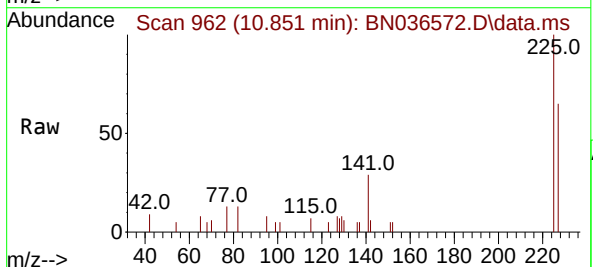
Manual Integrations
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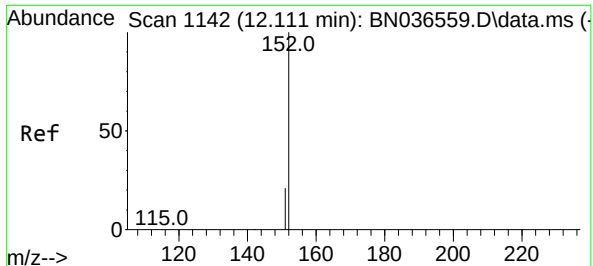
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10
Hexachlorobutadiene
Concen: 0.426 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:225 Resp: 1723
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.8 77.8





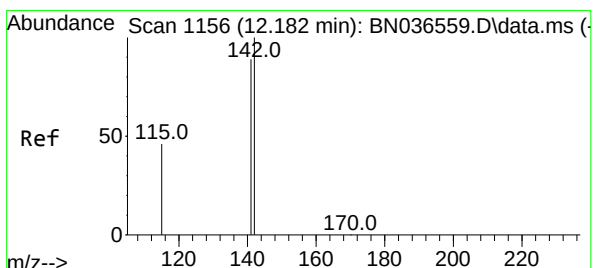
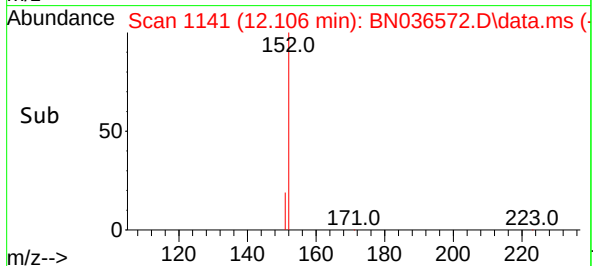
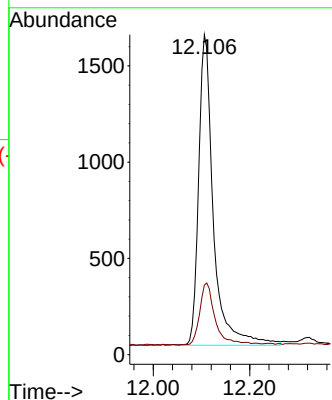
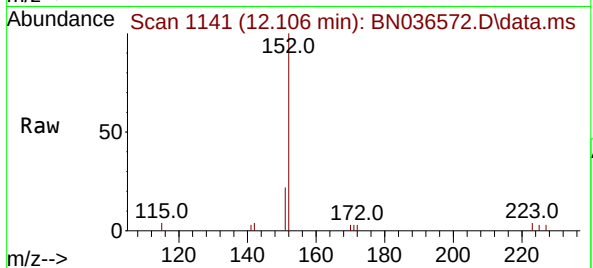
#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 341
Ion Ratio Lower Upper
152 100
151 20.7 17.0 25.6

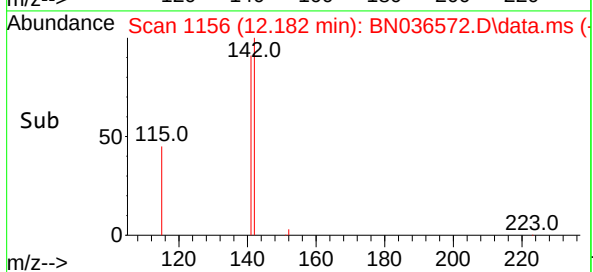
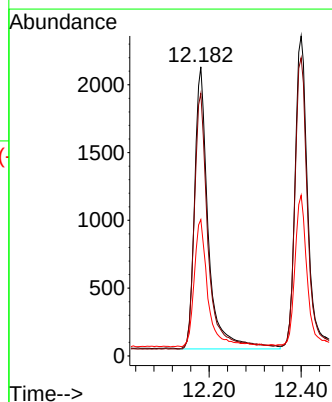
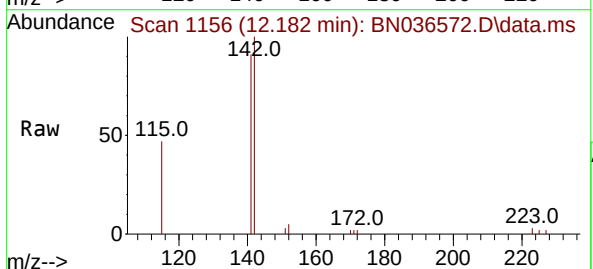
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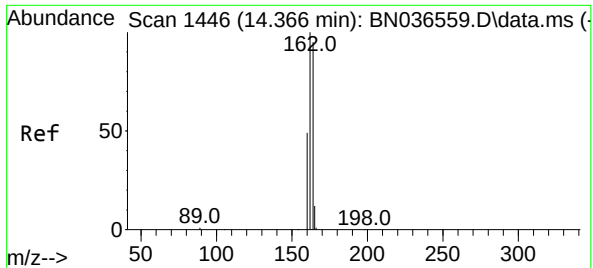
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.395 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

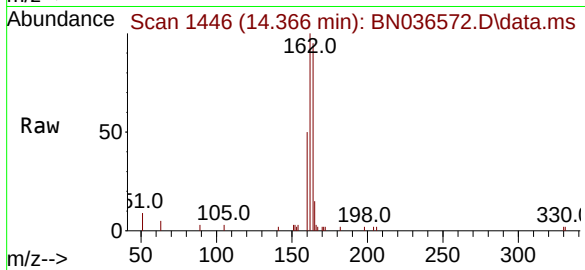
Tgt Ion:142 Resp: 4313
Ion Ratio Lower Upper
142 100
141 90.8 71.7 107.5
115 47.1 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

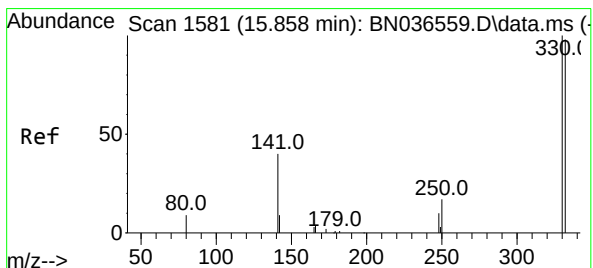
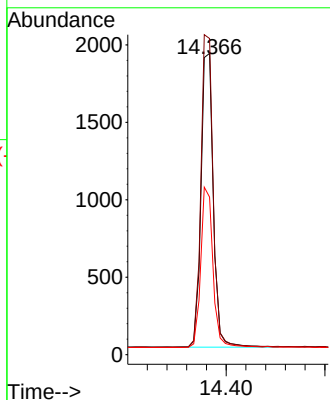
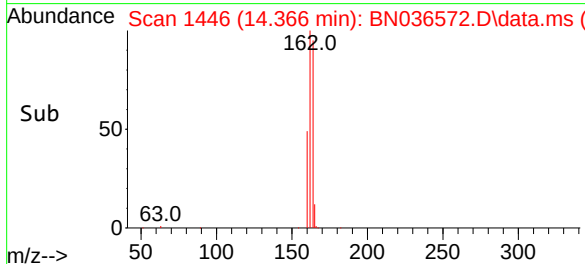
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



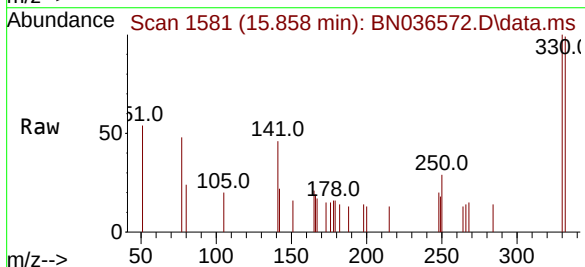
Tgt Ion:164 Resp: 326
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 52.3 42.2 63.2

Manual Integrations
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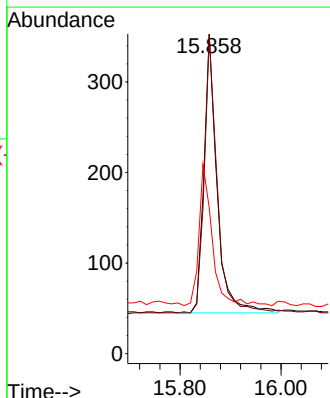
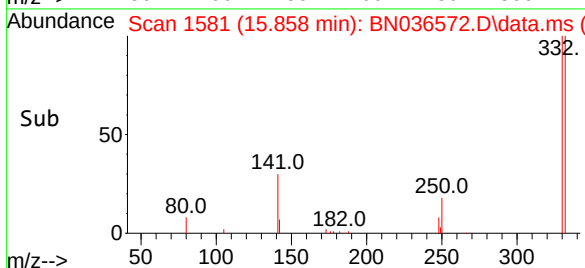
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

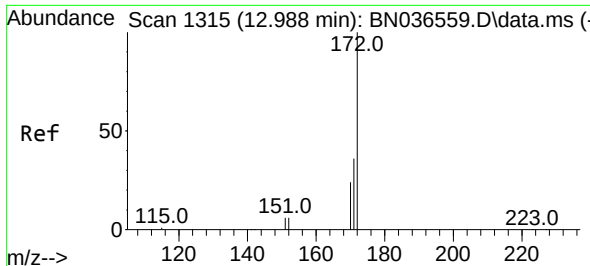


#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



Tgt Ion:330 Resp: 560
Ion Ratio Lower Upper
330 100
332 97.7 75.2 112.8
141 51.2 43.4 65.2





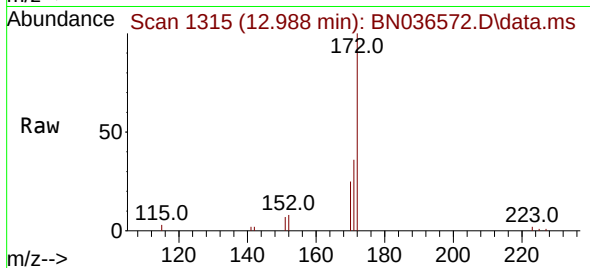
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

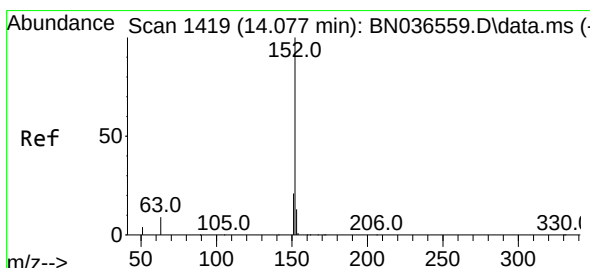
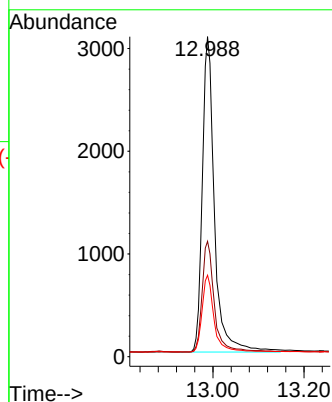
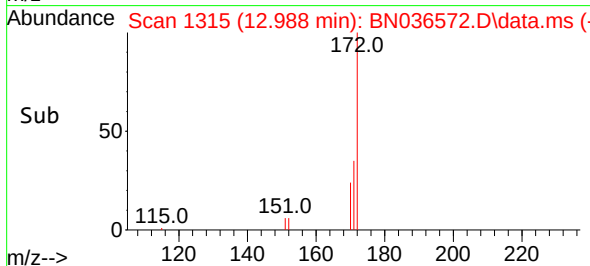
SSTDCCC0.4EC



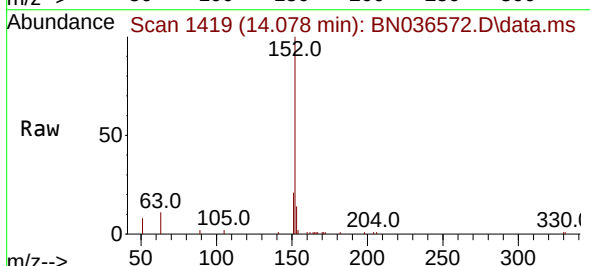
Tgt Ion:172 Resp: 786
Ion Ratio Lower Upper
172 100
171 36.0 29.5 44.3
170 25.5 20.2 30.4

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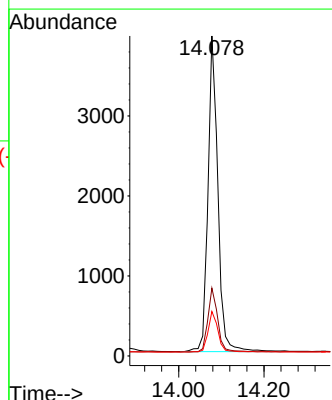
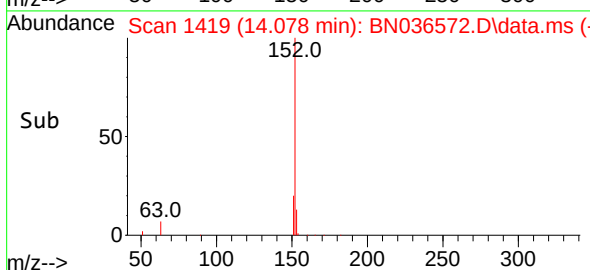
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

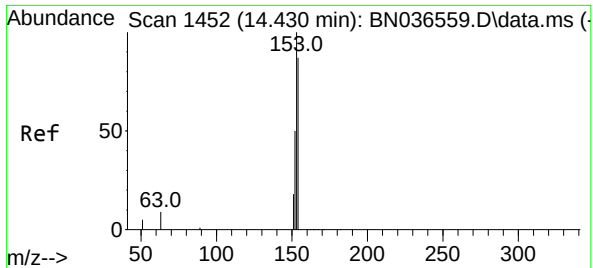


#16
Acenaphthylene
Concen: 0.412 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



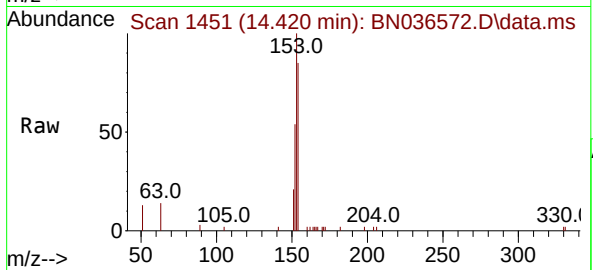
Tgt Ion:152 Resp: 6346
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 13.1 10.6 15.8





#17
Acenaphthene
Concen: 0.412 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.010 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

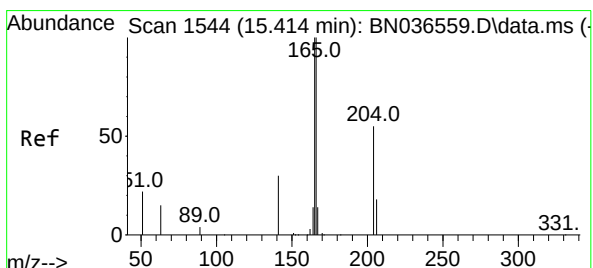
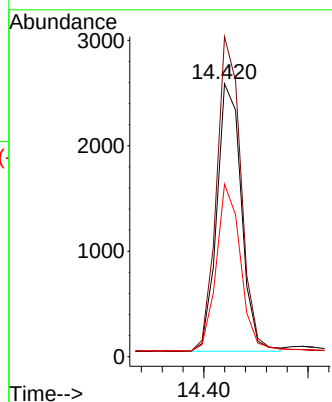
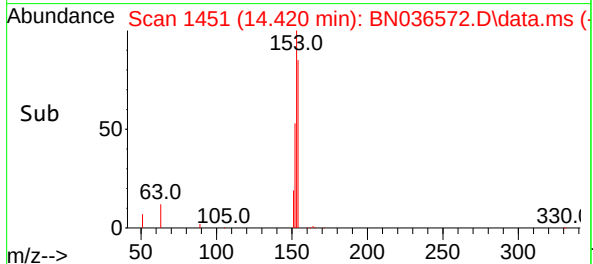
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 415
Ion Ratio Lower Upper
154 100
153 118.3 94.1 141.1
152 61.8 49.8 74.6

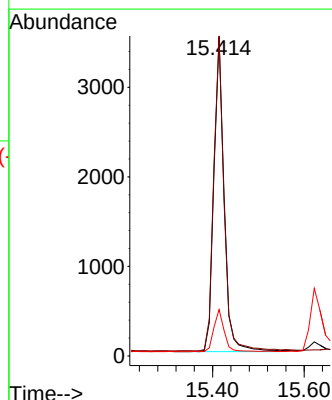
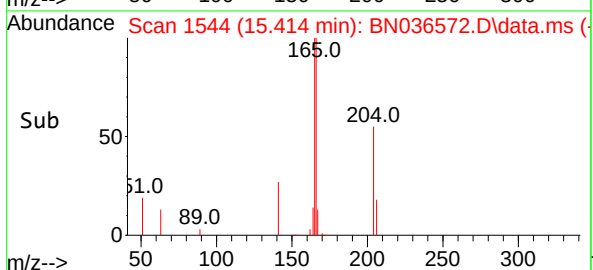
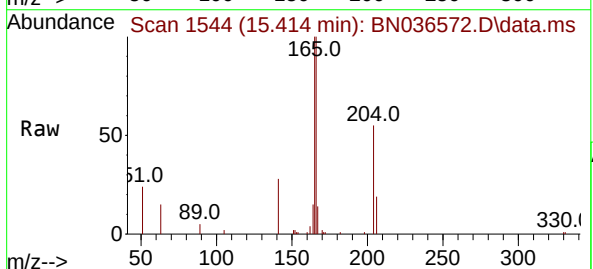
Manual Integrations
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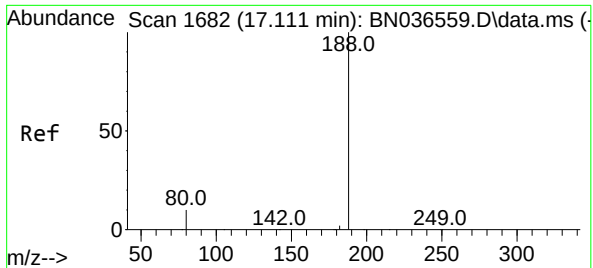
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18
Fluorene
Concen: 0.410 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:166 Resp: 5592
Ion Ratio Lower Upper
166 100
165 100.3 79.8 119.8
167 13.7 10.6 15.8





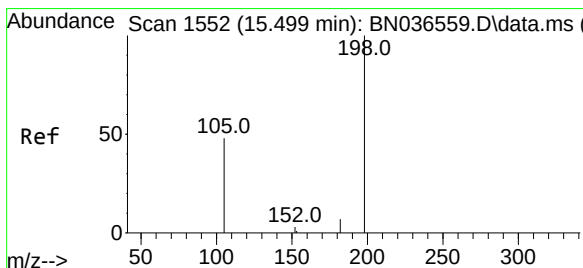
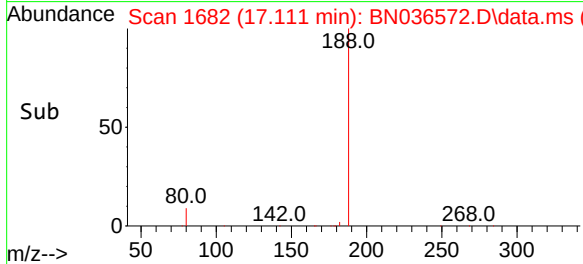
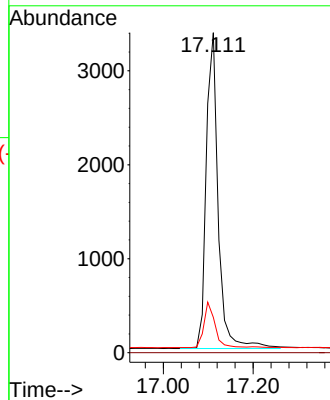
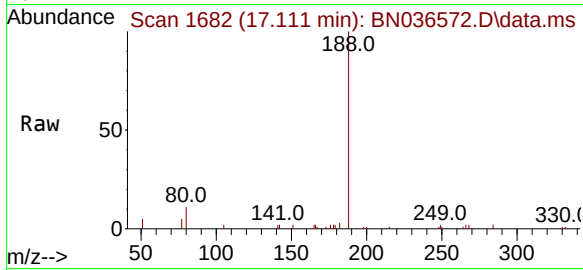
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 620
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 8.8 13.2

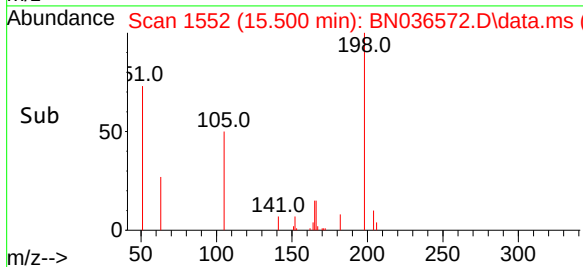
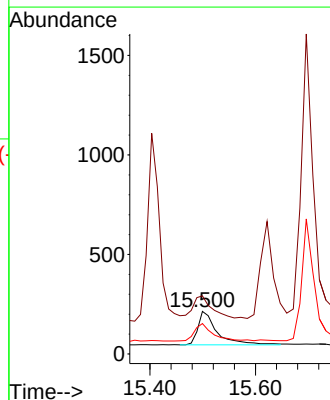
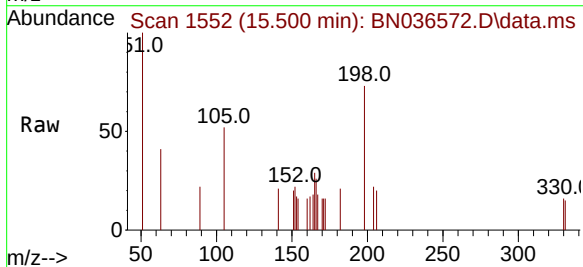
Manual Integrations
APPROVED

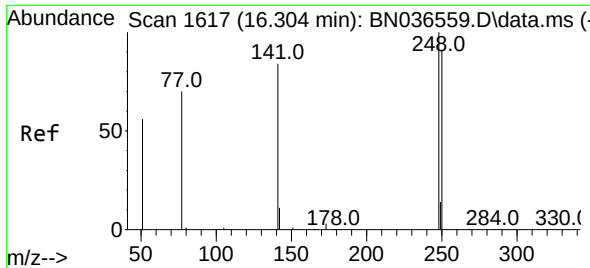
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.500 min Scan# 1552
Delta R.T. 0.001 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:198 Resp: 439
Ion Ratio Lower Upper
198 100
51 136.4 107.9 161.9
105 71.5 56.2 84.2





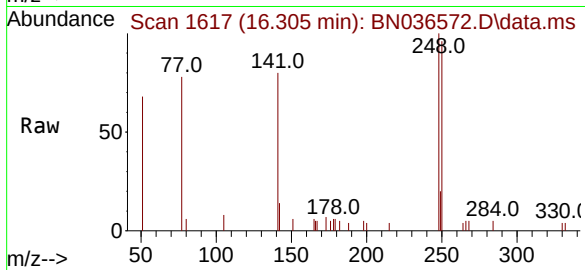
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

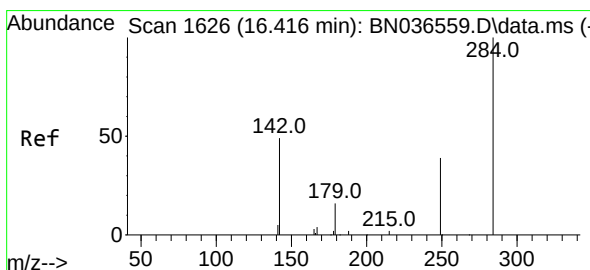
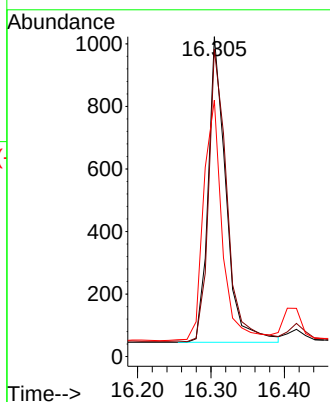
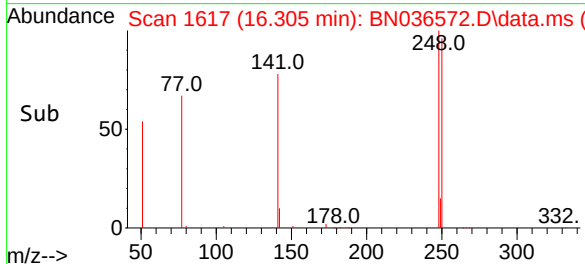
SSTDCCC0.4EC



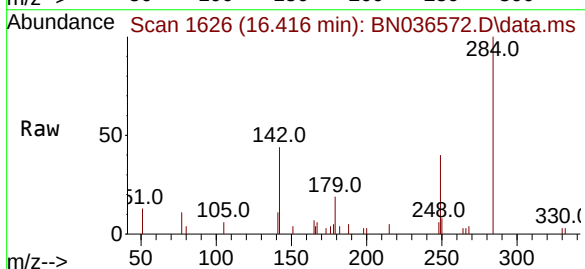
Tgt Ion:248 Resp: 1638
Ion Ratio Lower Upper
248 100
250 96.1 73.0 109.6
141 80.2 68.6 103.0

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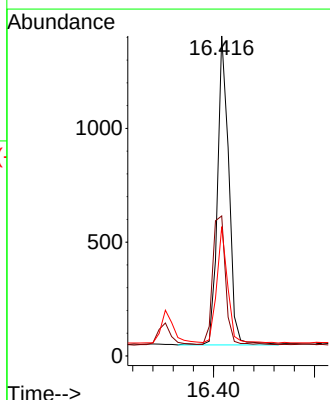
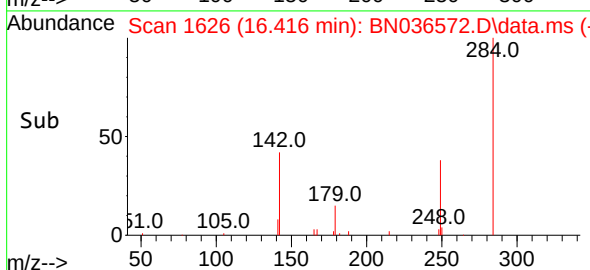
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

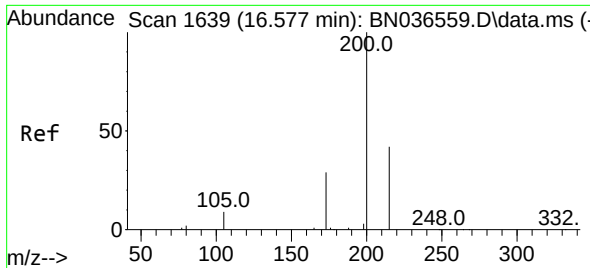


#22
Hexachlorobenzene
Concen: 0.447 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



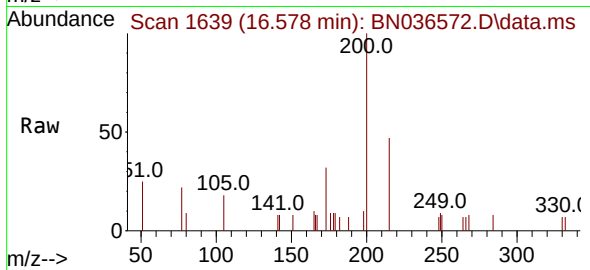
Tgt Ion:284 Resp: 2099
Ion Ratio Lower Upper
284 100
142 47.9 37.0 55.4
249 36.2 28.1 42.1





#23
Atrazine
Concen: 0.414 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

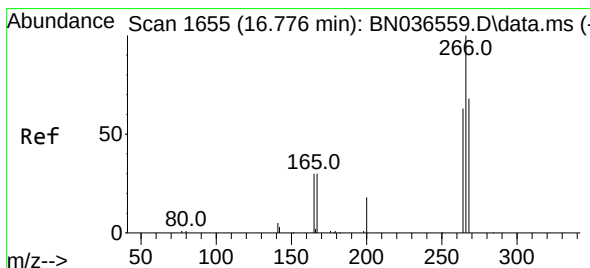
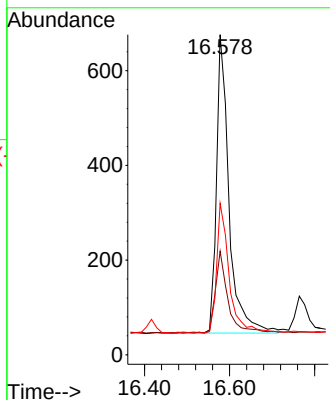
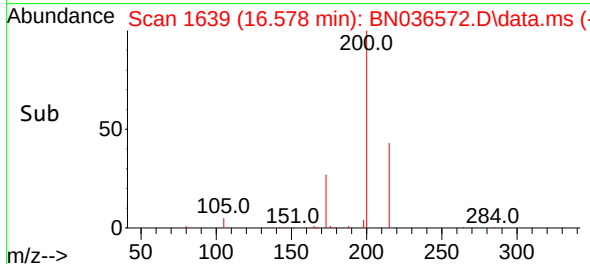
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 129
Ion Ratio Lower Upper
200 100
173 32.4 27.3 40.9
215 47.3 36.8 55.2

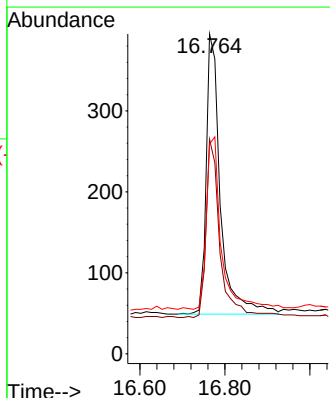
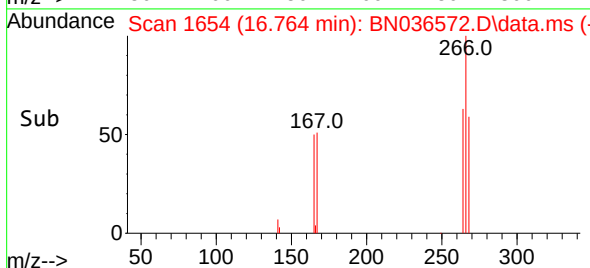
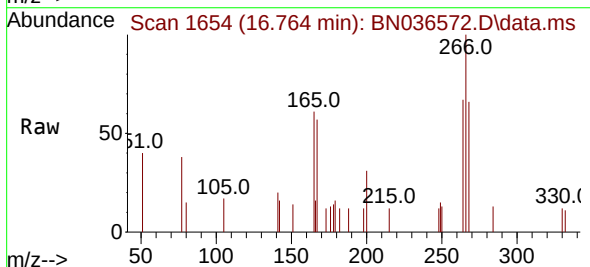
Manual Integrations
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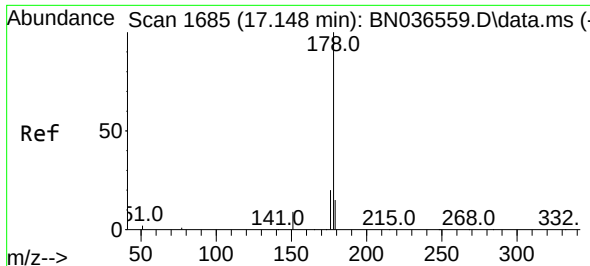
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

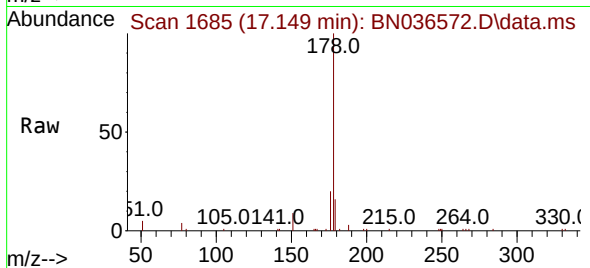
Tgt Ion:266 Resp: 802
Ion Ratio Lower Upper
266 100
264 62.5 49.6 74.4
268 63.7 50.9 76.3





#25
Phenanthrene
Concen: 0.423 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

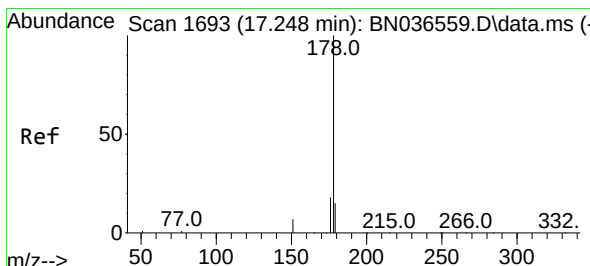
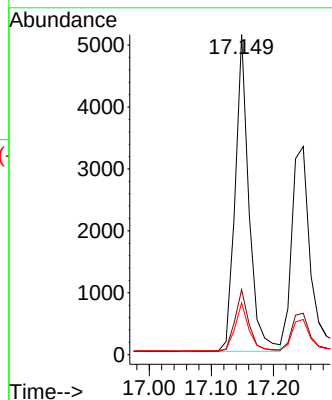
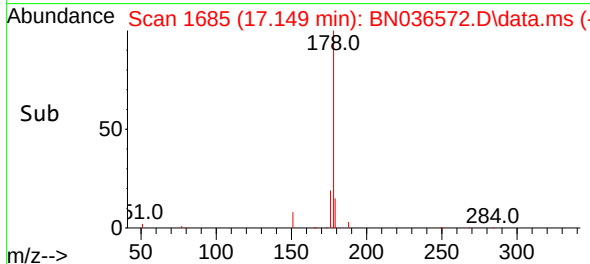
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 787
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.1 12.2 18.4

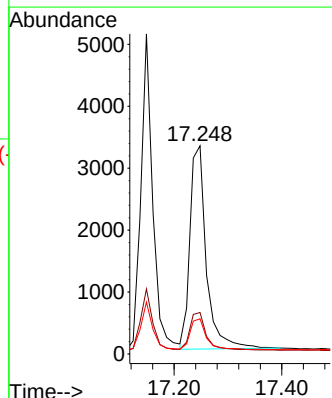
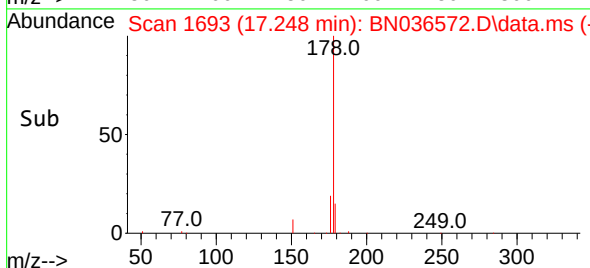
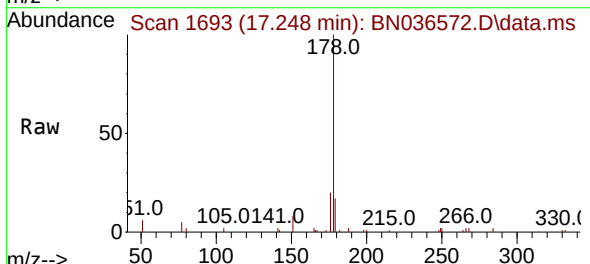
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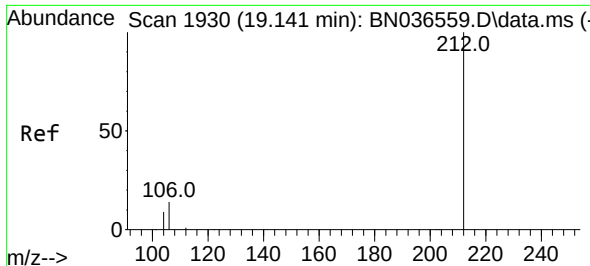
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#26
Anthracene
Concen: 0.414 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:178 Resp: 6961
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.418 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

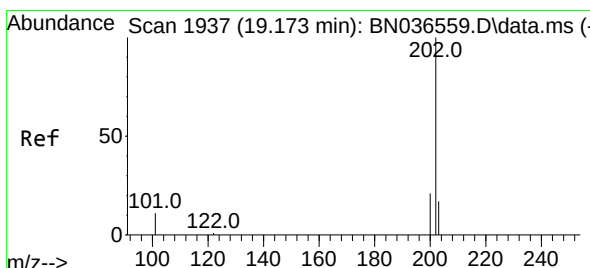
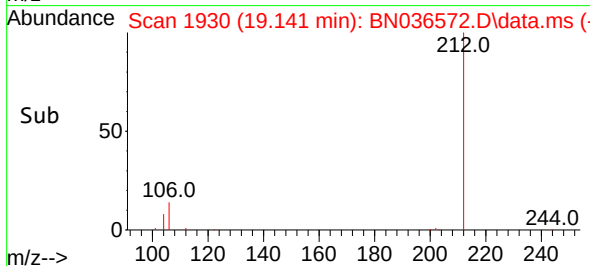
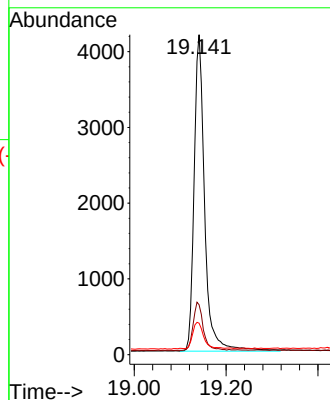
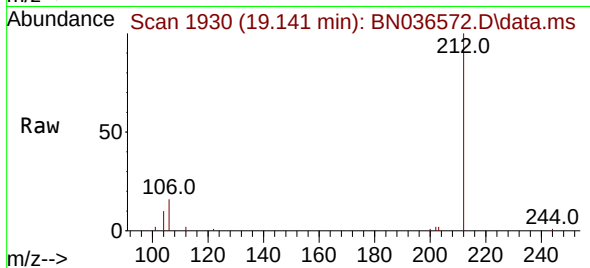
Tgt Ion:	212	Resp:	6640
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	9.1	7.3	10.9

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/11/2025



#28

Fluoranthene

Concen: 0.417 ng

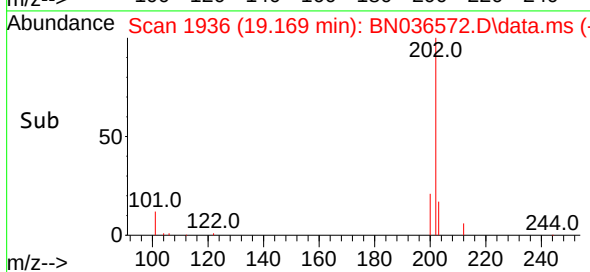
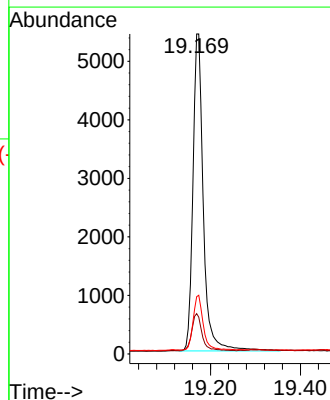
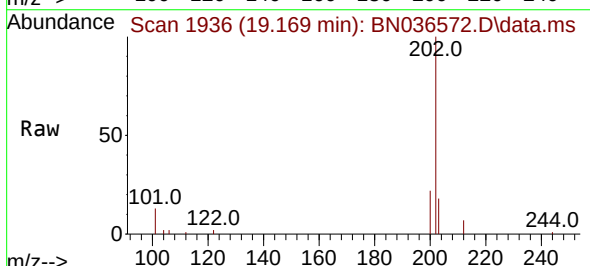
RT: 19.169 min Scan# 1936

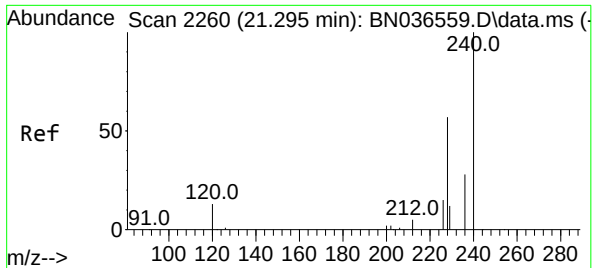
Delta R.T. -0.004 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Tgt Ion:	202	Resp:	8718
Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.0
203	16.8	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng m

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 443

Ion Ratio Lower Upper

240 100

120 17.4 14.6 22.0

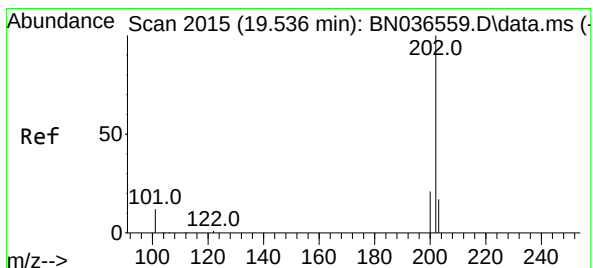
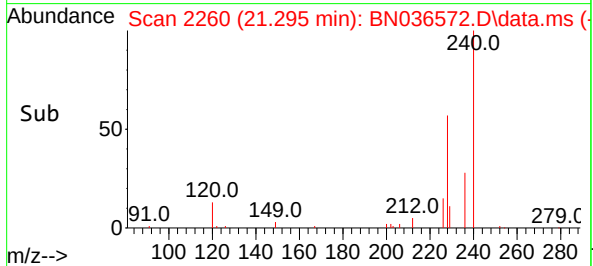
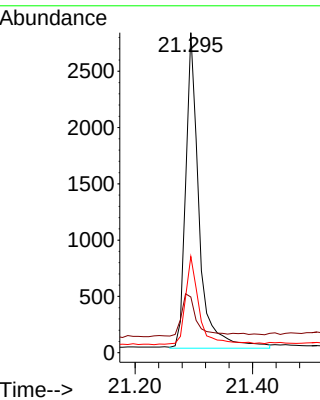
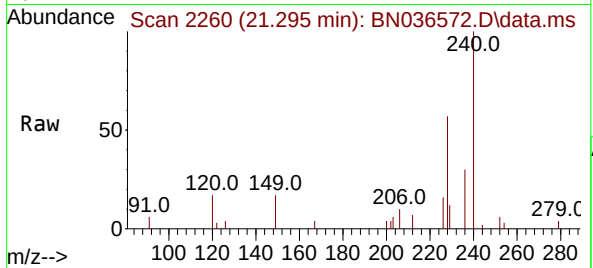
236 30.1 24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#30

Pyrene

Concen: 0.406 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

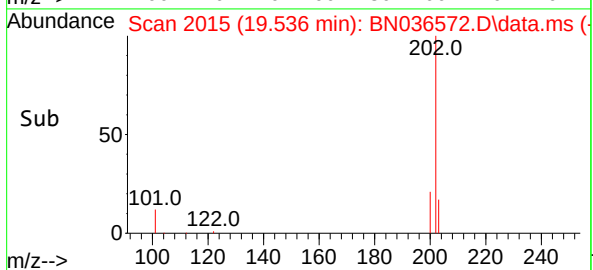
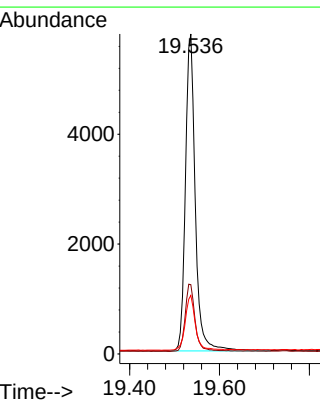
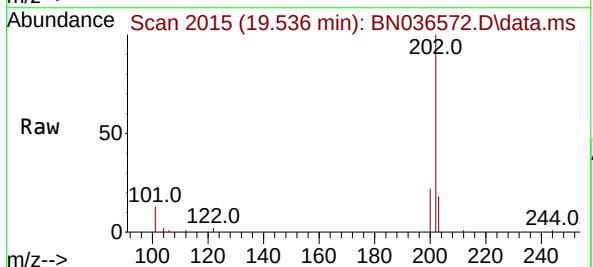
Tgt Ion:202 Resp: 8800

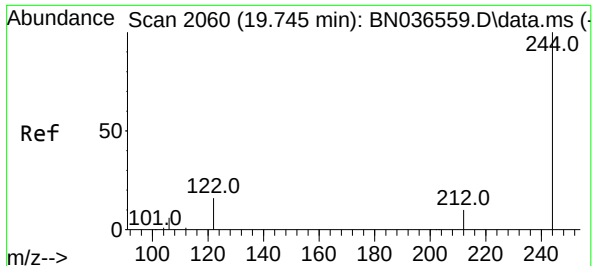
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1





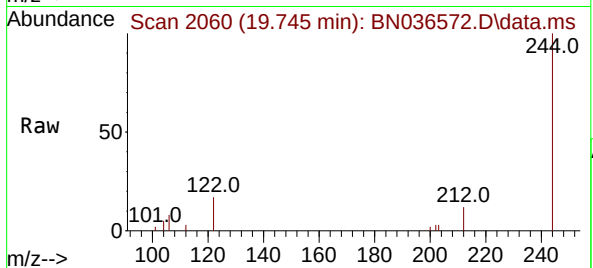
#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

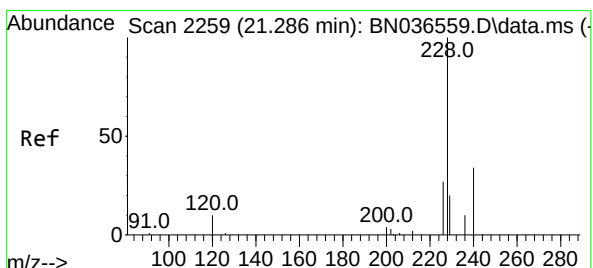
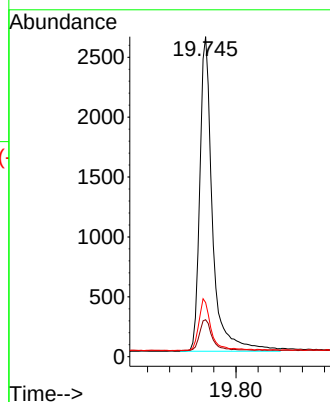
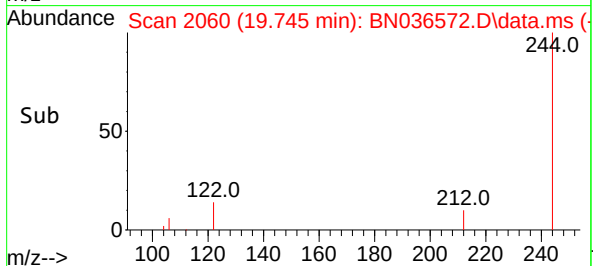


Tgt Ion:244 Resp: 419
Ion Ratio Lower Upper
244 100
212 11.6 9.6 14.4
122 16.9 13.9 20.9

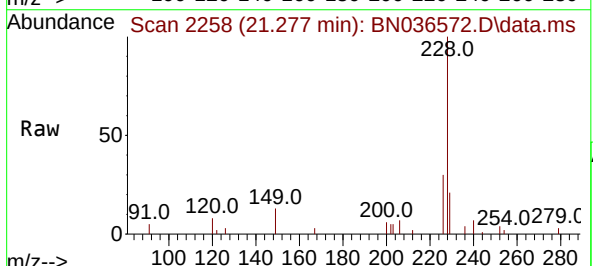
Manual Integrations

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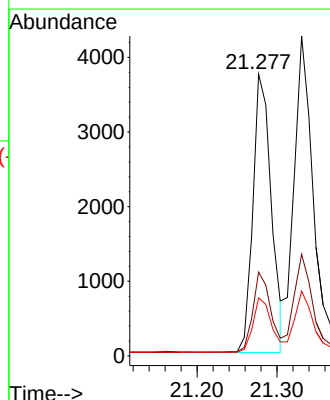
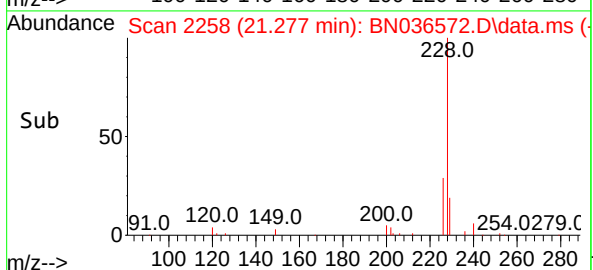
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

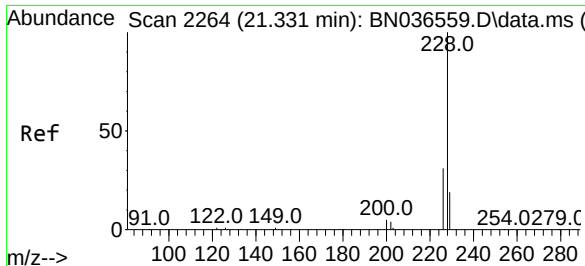


#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



Tgt Ion:228 Resp: 5953
Ion Ratio Lower Upper
228 100
226 29.7 22.5 33.7
229 20.6 16.6 25.0





#33

Chrysene

Concen: 0.439 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

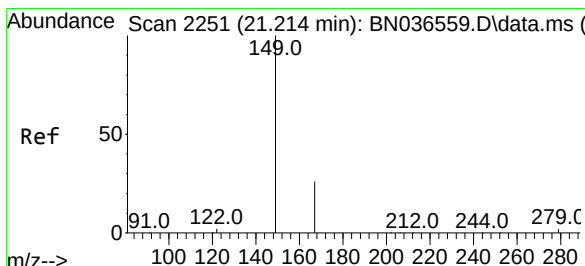
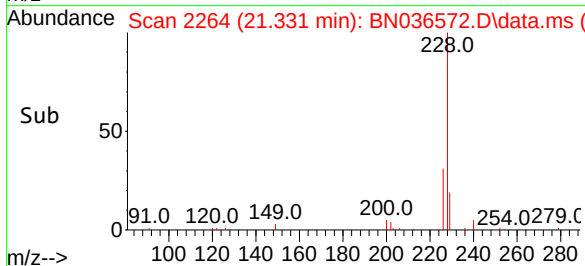
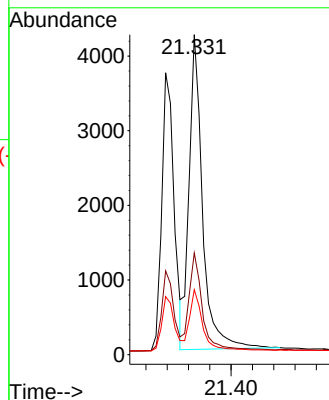
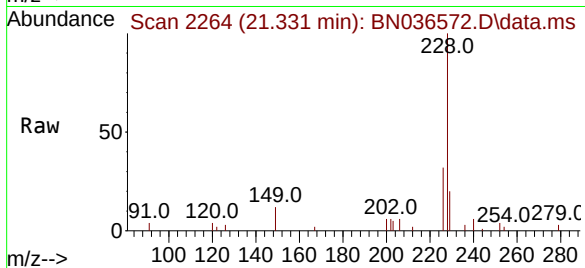
Tgt Ion:	228	Resp:	739
Ion Ratio	Lower	Upper	
228	100		
226	31.8	25.3	37.9
229	20.3	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.364 ng

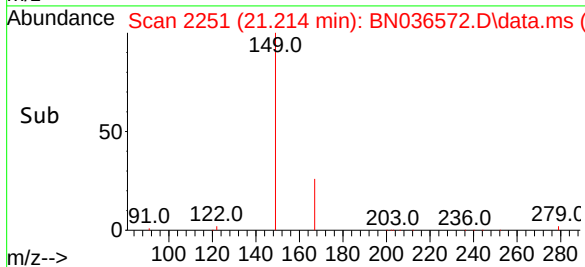
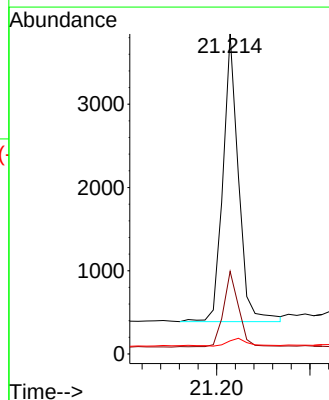
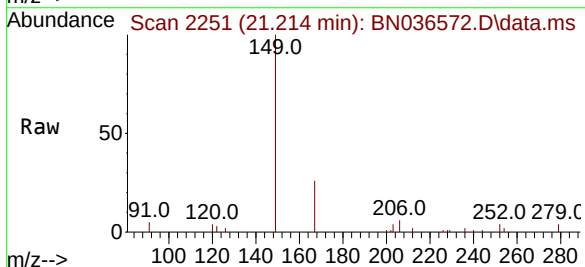
RT: 21.214 min Scan# 2251

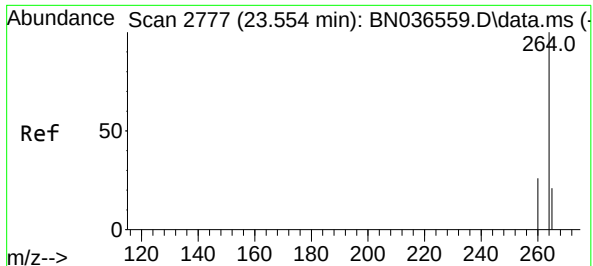
Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Tgt Ion:	149	Resp:	3997
Ion Ratio	Lower	Upper	
149	100		
167	25.6	20.7	31.1
279	3.4	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:264 Resp: 4010

Ion Ratio Lower Upper

264 100

260 27.3 22.6 33.8

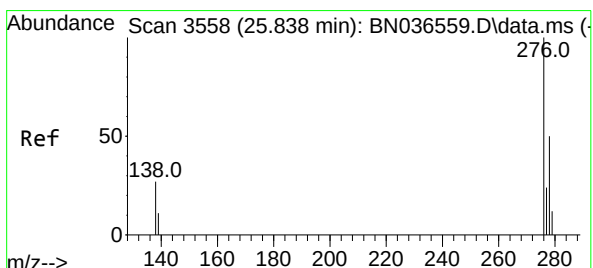
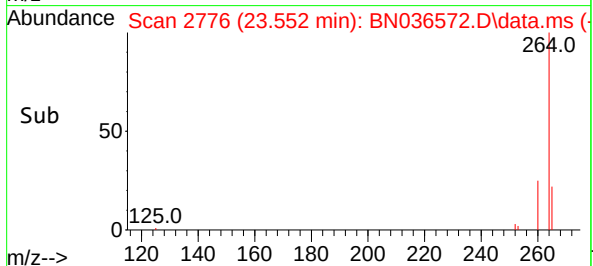
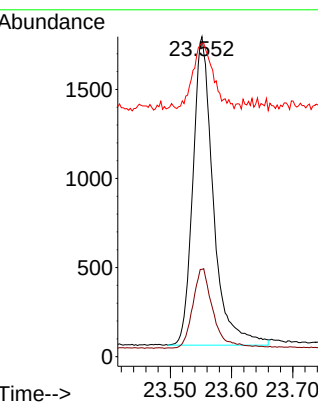
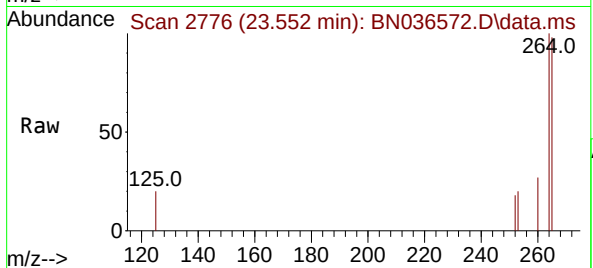
265 97.9 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.455 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

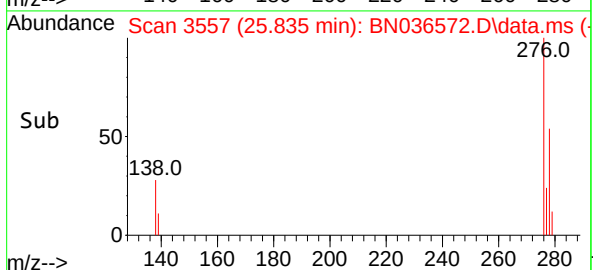
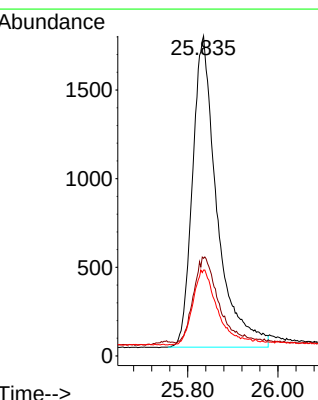
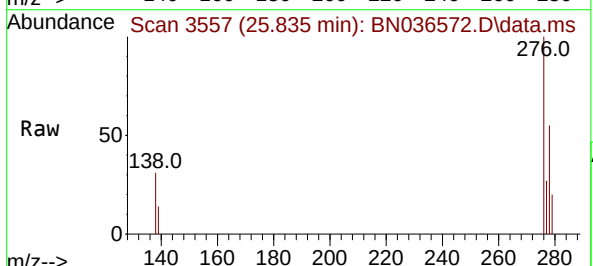
Tgt Ion:276 Resp: 6596

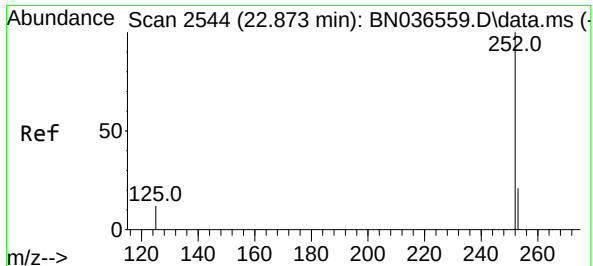
Ion Ratio Lower Upper

276 100

138 27.7 23.4 35.2

277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.422 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252 Resp: 616

Ion Ratio Lower Upper

252 100

253 29.2 23.9 35.9

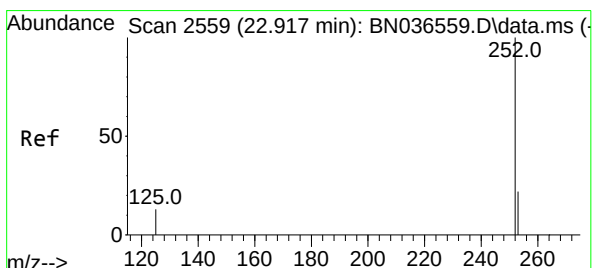
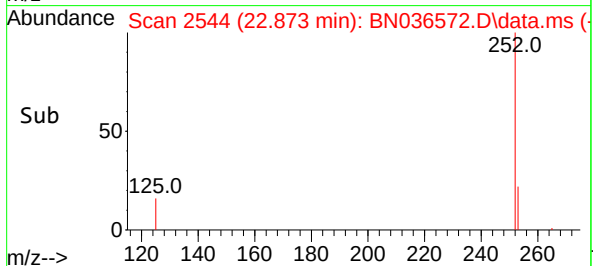
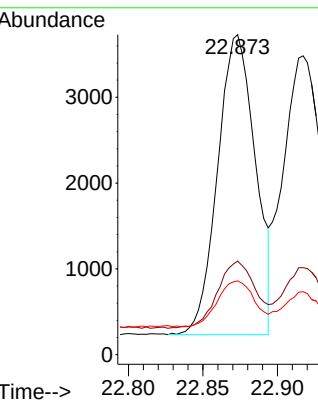
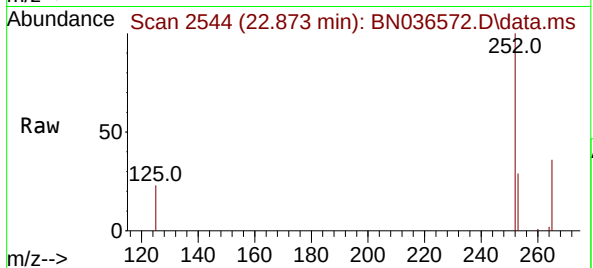
125 23.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#38

Benzo(k)fluoranthene

Concen: 0.435 ng m

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

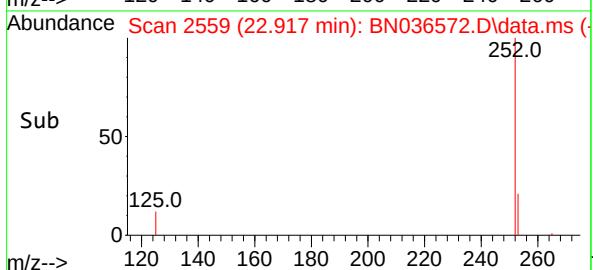
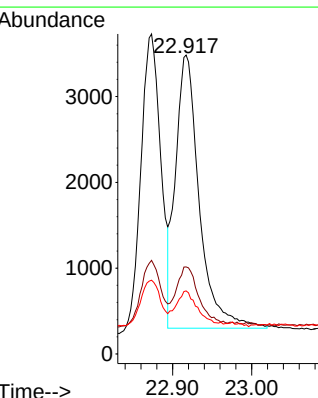
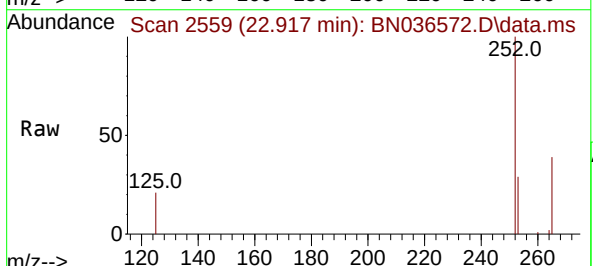
Tgt Ion:252 Resp: 6664

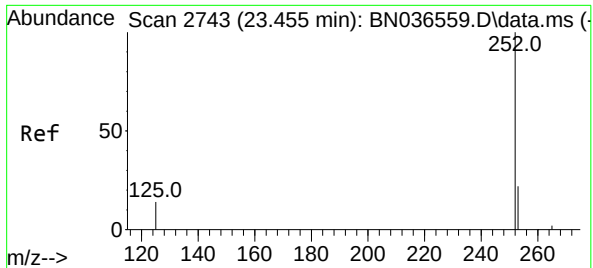
Ion Ratio Lower Upper

252 100

253 29.1 24.6 36.8

125 21.1 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.448 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

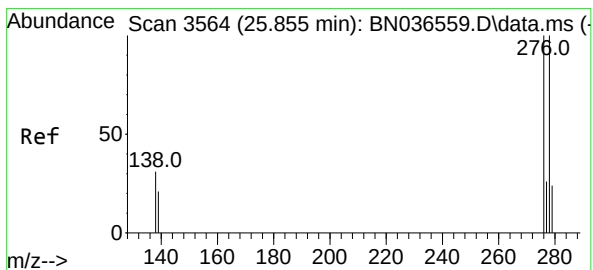
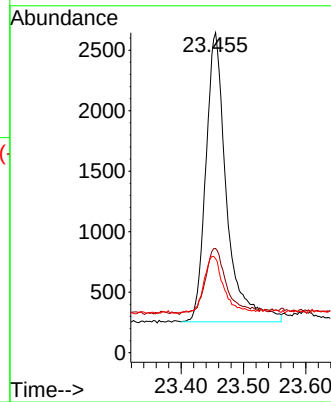
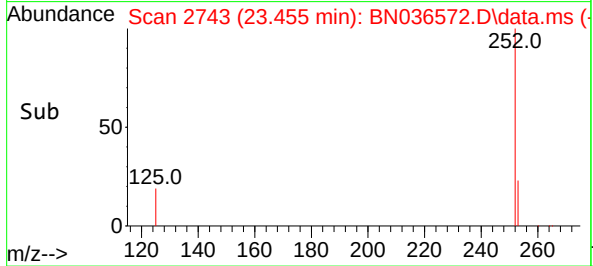
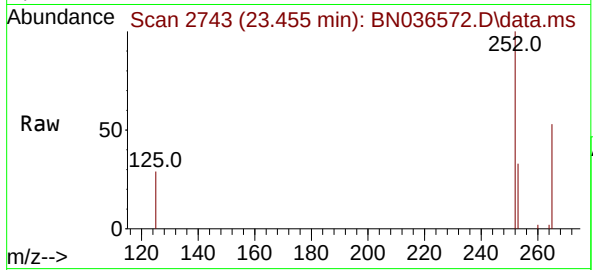
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	252	Resp:	550
Ion Ratio	Lower	Upper	
252	100		
253	32.6	27.8	41.8
125	29.4	22.7	34.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.457 ng

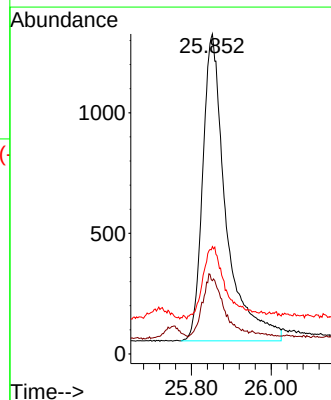
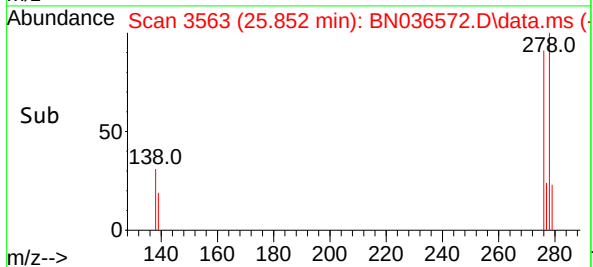
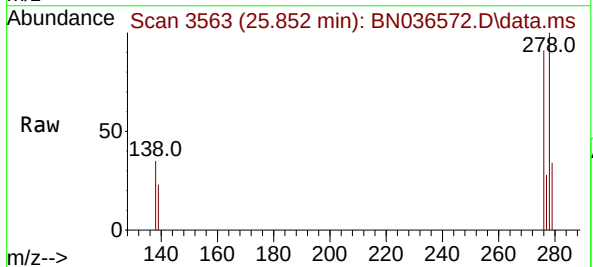
RT: 25.852 min Scan# 3563

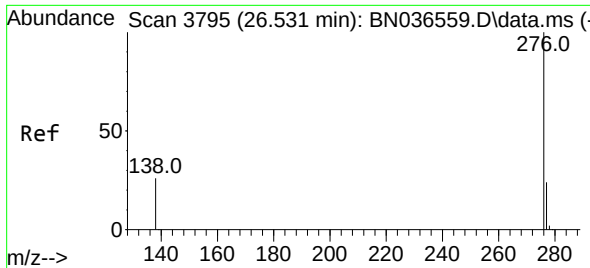
Delta R.T. -0.003 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

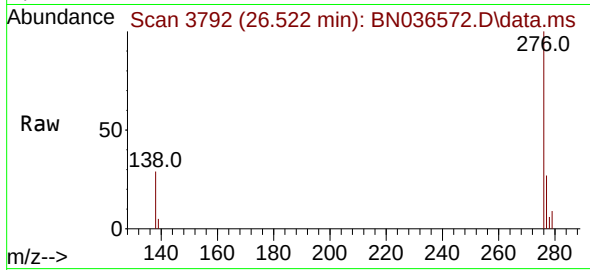
Tgt Ion:	278	Resp:	5154
Ion Ratio	Lower	Upper	
278	100		
139	22.9	20.8	31.2
279	33.5	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.463 ng
RT: 26.522 min Scan# 31
Delta R.T. -0.009 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

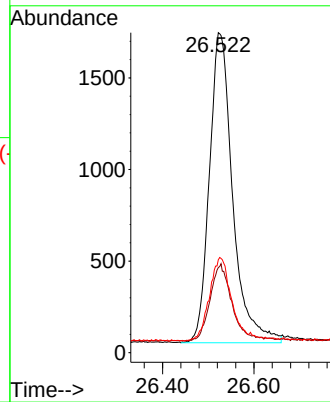
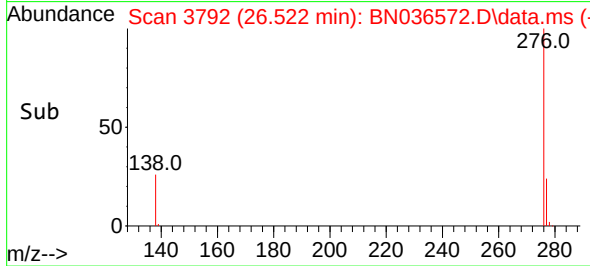
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 276 Resp: 598
Ion Ratio Lower Upper
276 100
277 26.6 22.2 33.4
138 29.1 24.1 36.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036572.D
 Acq On : 10 Mar 2025 21:26
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 11 00:53:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	114	0.00
2	1,4-Dioxane	0.444	0.520	-17.1	119	0.00
3	n-Nitrosodimethylamine	0.898	0.908	-1.1	110	0.00
4 S	2-Fluorophenol	0.932	0.968	-3.9	111	0.00
5 S	Phenol-d6	1.152	1.112	3.5	112	0.00
6	bis(2-Chloroethyl)ether	1.190	1.172	1.5	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
8 S	Nitrobenzene-d5	0.435	0.405	6.9	112	0.00
9	Naphthalene	1.177	1.177	0.0	112	0.00
10	Hexachlorobutadiene	0.277	0.295	-6.5	115	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.585	1.7	111	0.00
12	2-Methylnaphthalene	0.749	0.739	1.3	111	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.182	0.171	6.0	99	0.00
15 S	2-Fluorobiphenyl	2.327	2.408	-3.5	108	0.00
16	Acenaphthylene	1.888	1.943	-2.9	108	0.00
17	Acenaphthene	1.236	1.272	-2.9	107	-0.01
18	Fluorene	1.672	1.712	-2.4	105	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	95	0.00
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	100	0.00
22	Hexachlorobenzene	0.303	0.338	-11.6	104	0.00
23	Atrazine	0.201	0.208	-3.5	101	0.00
24	Pentachlorophenol	0.138	0.129	6.5	98	-0.01
25	Phenanthrene	1.200	1.268	-5.7	101	0.00
26	Anthracene	1.083	1.121	-3.5	101	0.00
27 SURR	Fluoranthene-d10	1.025	1.071	-4.5	99	0.00
28	Fluoranthene	1.348	1.405	-4.2	100	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	108	0.00
30	Pyrene	1.956	1.986	-1.5	100	0.00
31 S	Terphenyl-d14	0.958	0.947	1.1	99	0.00
32	Benzo(a)anthracene	1.391	1.343	3.5	101	0.00
33	Chrysene	1.520	1.668	-9.7	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.902	8.9	93	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.642	-13.7	121	0.00
37	Benzo(b)fluoranthene	1.456	1.534	-5.4	113	0.00
38	Benzo(k)fluoranthene	1.527	1.659	-8.6	116	0.00
39 C	Benzo(a)pyrene	1.226	1.372	-11.9	119	0.00
40	Dibenzo(a,h)anthracene	1.124	1.283	-14.1	125	0.00
41	Benzo(g,h,i)perylene	1.286	1.490	-15.9	122	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036572.D
Acq On : 10 Mar 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 11 00:53:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	114	0.00
2	1,4-Dioxane	0.400	0.469	-17.2	119	0.00
3	n-Nitrosodimethylamine	0.400	0.405	-1.3	110	0.00
4 S	2-Fluorophenol	0.400	0.415	-3.7	111	0.00
5 S	Phenol-d6	0.400	0.386	3.5	112	0.00
6	bis(2-Chloroethyl)ether	0.400	0.394	1.5	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	115	0.00
8 S	Nitrobenzene-d5	0.400	0.372	7.0	112	0.00
9	Naphthalene	0.400	0.400	0.0	112	0.00
10	Hexachlorobutadiene	0.400	0.426	-6.5	115	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.393	1.8	111	0.00
12	2-Methylnaphthalene	0.400	0.395	1.3	111	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.378	5.5	99	0.00
15 S	2-Fluorobiphenyl	0.400	0.414	-3.5	108	0.00
16	Acenaphthylene	0.400	0.412	-3.0	108	0.00
17	Acenaphthene	0.400	0.412	-3.0	107	-0.01
18	Fluorene	0.400	0.410	-2.5	105	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	95	0.00
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	100	0.00
22	Hexachlorobenzene	0.400	0.447	-11.7	104	0.00
23	Atrazine	0.400	0.414	-3.5	101	0.00
24	Pentachlorophenol	0.400	0.375	6.3	98	-0.01
25	Phenanthrene	0.400	0.423	-5.7	101	0.00
26	Anthracene	0.400	0.414	-3.5	101	0.00
27 SURR	Fluoranthene-d10	0.400	0.418	-4.5	99	0.00
28	Fluoranthene	0.400	0.417	-4.2	100	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	108	0.00
30	Pyrene	0.400	0.406	-1.5	100	0.00
31 S	Terphenyl-d14	0.400	0.395	1.3	99	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	101	0.00
33	Chrysene	0.400	0.439	-9.7	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.364	9.0	93	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.455	-13.7	121	0.00
37	Benzo(b)fluoranthene	0.400	0.422	-5.5	113	0.00
38	Benzo(k)fluoranthene	0.400	0.435	-8.7	116	0.00
39 C	Benzo(a)pyrene	0.400	0.448	-12.0	119	0.00
40	Dibenzo(a,h)anthracene	0.400	0.457	-14.2	125	0.00
41	Benzo(g,h,i)perylene	0.400	0.463	-15.8	122	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.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/11/2025 10:08

Lab File ID: BN036574.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.563		-5.4	20.0
Fluoranthene-d10	1.025	1.038		1.3	20.0
2-Fluorophenol	0.932	0.903		-3.1	20.0
Phenol-d6	1.152	1.059		-8.1	20.0
Nitrobenzene-d5	0.435	0.381		-12.4	20.0
2-Fluorobiphenyl	2.327	2.112		-9.2	20.0
2,4,6-Tribromophenol	0.182	0.171		-6.0	20.0
Terphenyl-d14	0.958	0.926		-3.3	20.0
1,4-Dioxane	0.444	0.507		14.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
 Data File : BN036574.D
 Acq On : 11 Mar 2025 10:08
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 11 10:37:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

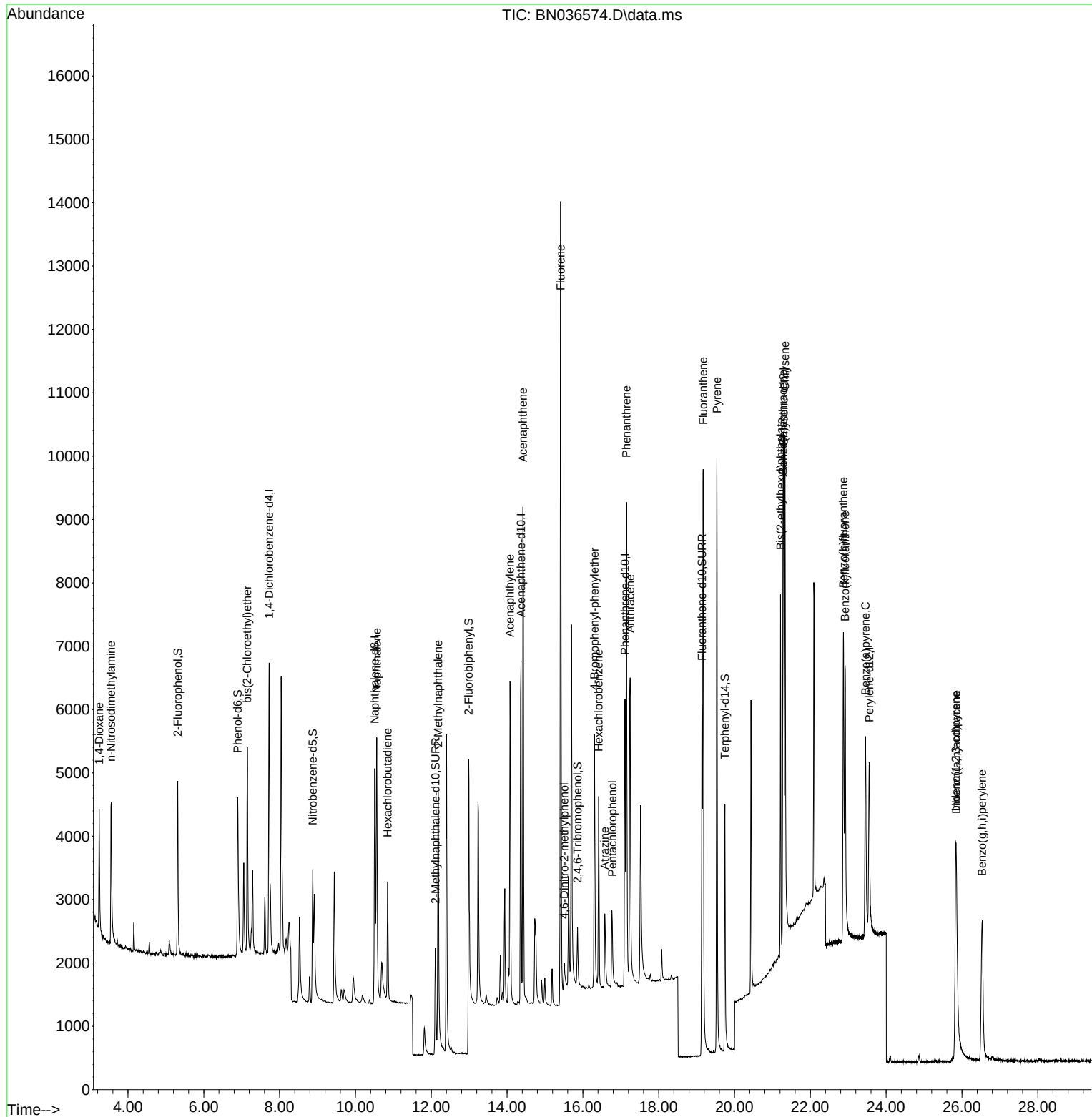
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2295	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5467	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3343	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6922	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4977	0.400	ng	0.00
35) Perylene-d12	23.554	264	4232	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2072	0.387	ng	0.00
5) Phenol-d6	6.894	99	2430	0.368	ng	0.00
8) Nitrobenzene-d5	8.875	82	2084	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3077	0.378	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	570	0.376	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7060	0.363	ng	0.00
27) Fluoranthene-d10	19.141	212	7182	0.405	ng	0.00
31) Terphenyl-d14	19.745	244	4607	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1163	0.457	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.550	42	1971	0.383	ng	95
6) bis(2-Chloroethyl)ether	7.147	93	2545	0.373	ng	100
9) Naphthalene	10.562	128	6096	0.379	ng	100
10) Hexachlorobutadiene	10.851	225	1495	0.395	ng	# 100
12) 2-Methylnaphthalene	12.182	142	3851	0.376	ng	98
16) Acenaphthylene	14.078	152	6004	0.381	ng	99
17) Acenaphthene	14.420	154	3941	0.382	ng	99
18) Fluorene	15.414	166	5415	0.388	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	407	0.376	ng	95
21) 4-Bromophenyl-phenylether	16.305	248	1650	0.380	ng	96
22) Hexachlorobenzene	16.416	284	2073	0.396	ng	99
23) Atrazine	16.578	200	1319	0.379	ng	97
24) Pentachlorophenol	16.776	266	800	0.335	ng	98
25) Phenanthrene	17.149	178	8248	0.397	ng	99
26) Anthracene	17.248	178	7203	0.384	ng	99
28) Fluoranthene	19.174	202	9516	0.408	ng	100
30) Pyrene	19.536	202	9574	0.393	ng	100
32) Benzo(a)anthracene	21.277	228	6681	0.386	ng	97
33) Chrysene	21.331	228	7472	0.395	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4774	0.387	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.835	276	5731	0.375	ng	97
37) Benzo(b)fluoranthene	22.873	252	6389	0.415	ng	97
38) Benzo(k)fluoranthene	22.917	252	6510	0.403	ng	97
39) Benzo(a)pyrene	23.455	252	5454	0.421	ng	96
40) Dibenzo(a,h)anthracene	25.852	278	4158	0.350	ng	99
41) Benzo(g,h,i)perylene	26.534	276	5220	0.384	ng	99

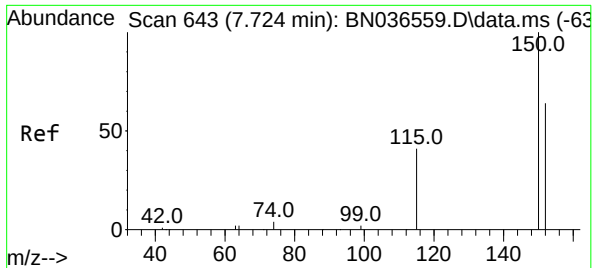
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036574.D
Acq On : 11 Mar 2025 10:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 11 10:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

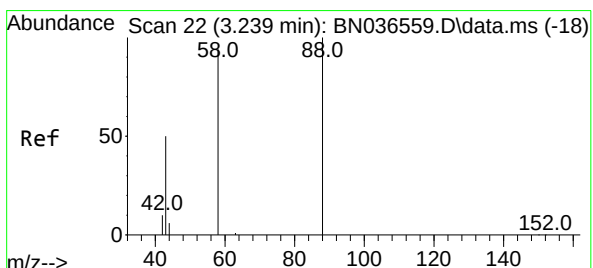
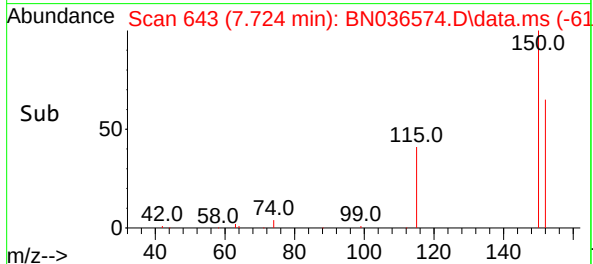
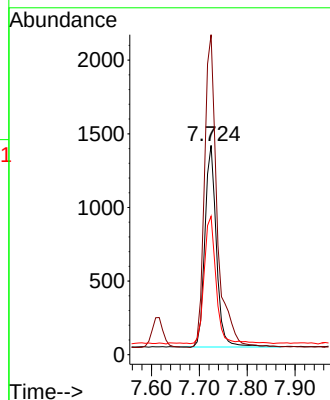
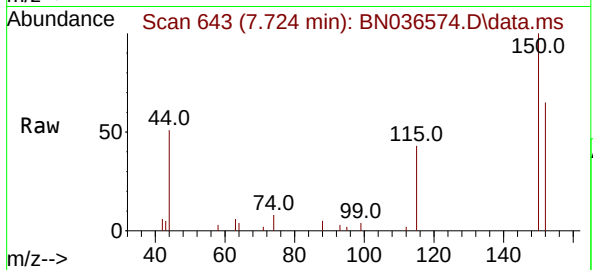




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

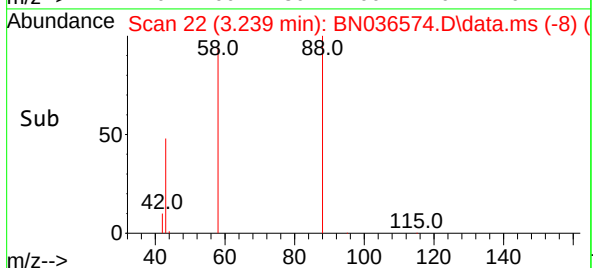
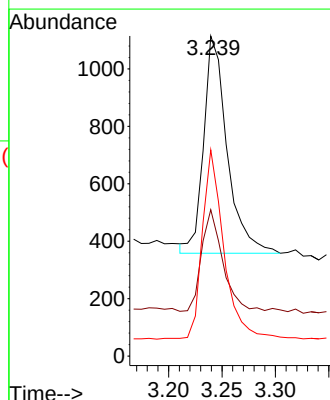
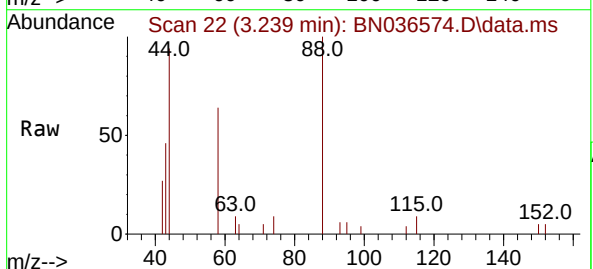
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

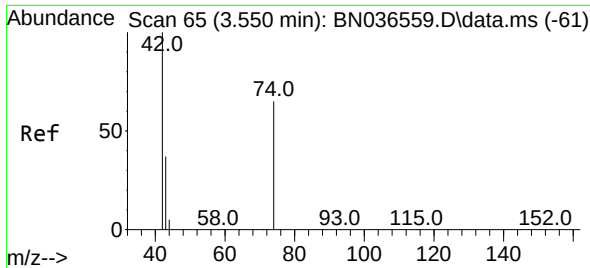
Tgt Ion:152 Resp: 2295
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 66.2 54.3 81.5



#2
1,4-Dioxane
Concen: 0.457 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion: 88 Resp: 1163
Ion Ratio Lower Upper
88 100
43 43.2 37.8 56.8
58 80.1 67.4 101.2

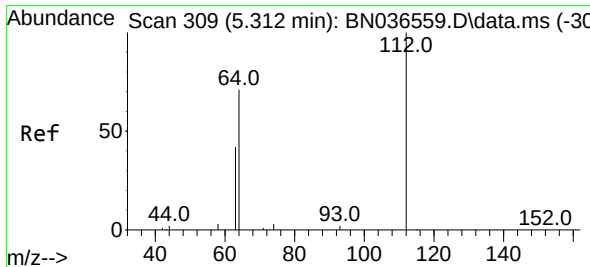
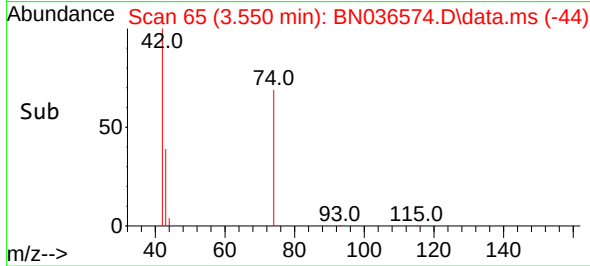
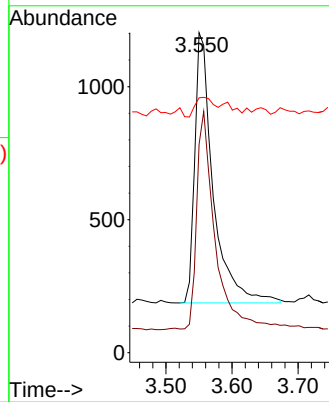
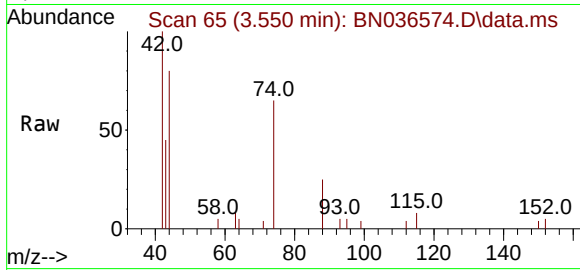




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

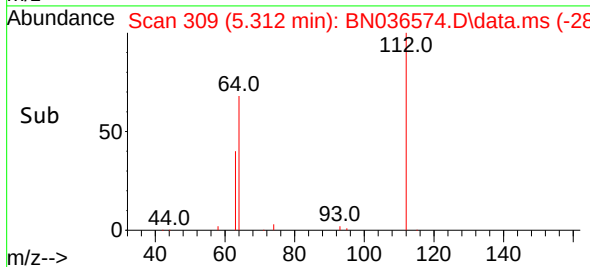
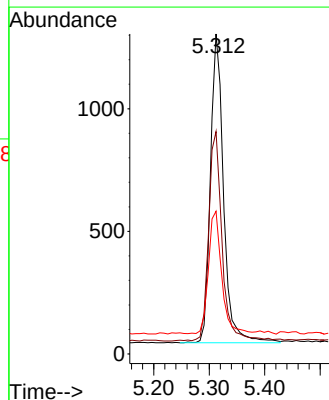
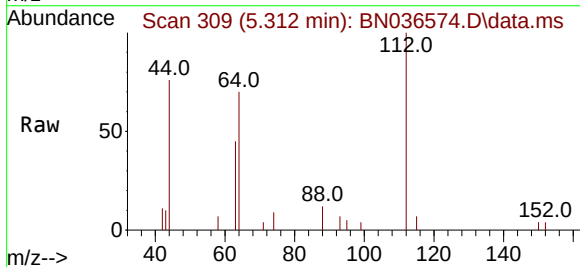
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

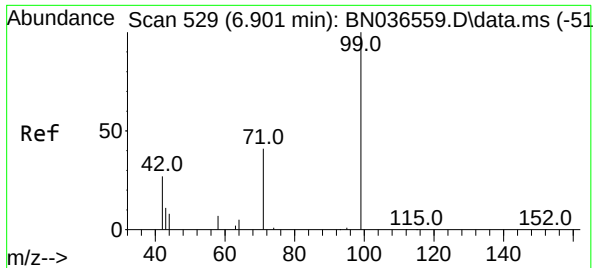
Tgt Ion: 42 Resp: 1971
Ion Ratio Lower Upper
42 100
74 80.5 60.6 90.8
44 7.4 6.3 9.5



#4
2-Fluorophenol
Concen: 0.387 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion: 112 Resp: 2072
Ion Ratio Lower Upper
112 100
64 69.0 53.1 79.7
63 39.7 31.8 47.8

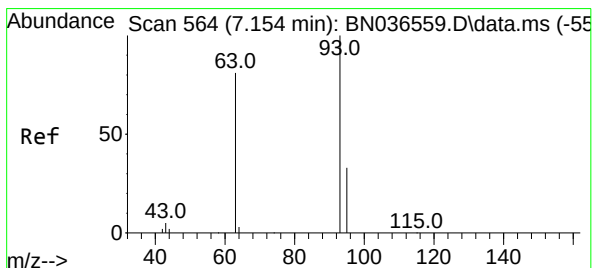
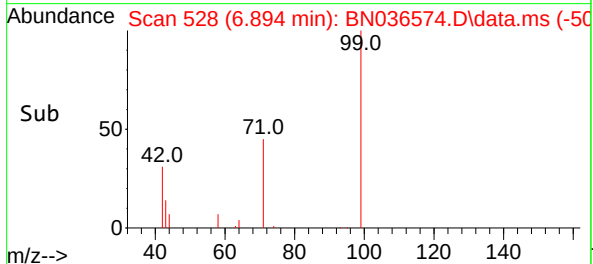
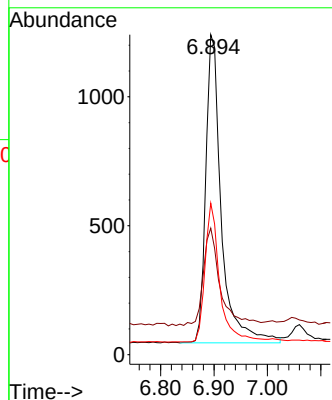
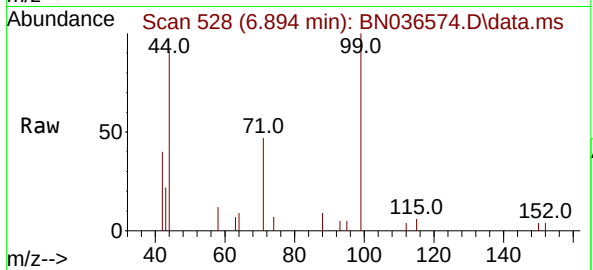




#5
Phenol-d6
Concen: 0.368 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

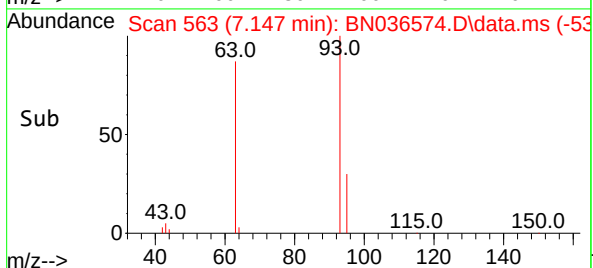
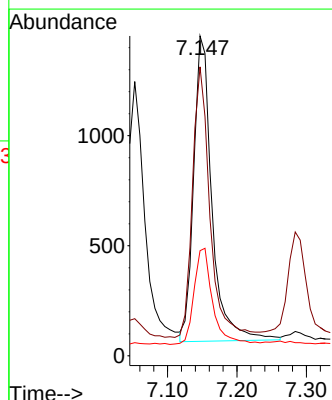
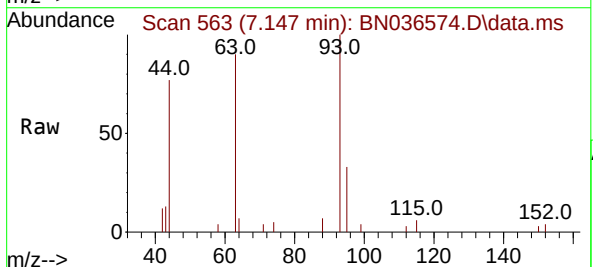
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

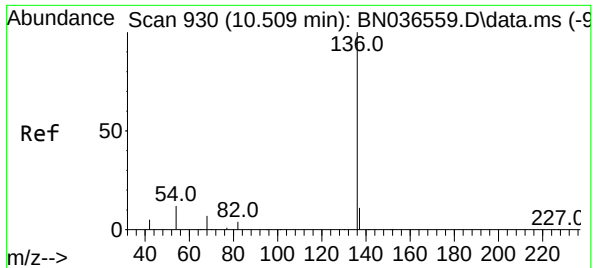
Tgt Ion: 99 Resp: 2430
Ion Ratio Lower Upper
99 100
42 34.2 26.5 39.7
71 42.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.373 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion: 93 Resp: 2545
Ion Ratio Lower Upper
93 100
63 84.4 67.7 101.5
95 32.1 25.6 38.4

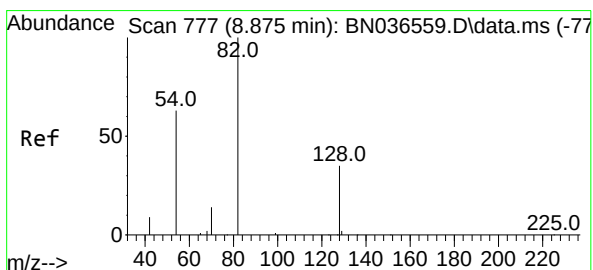
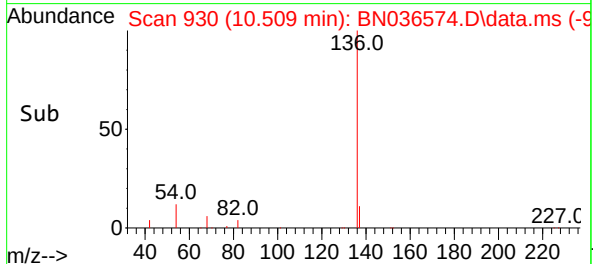
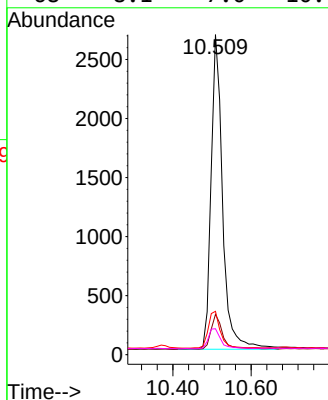
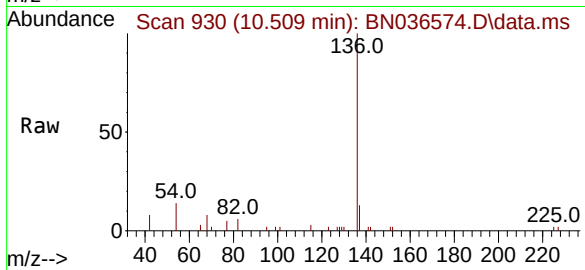




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

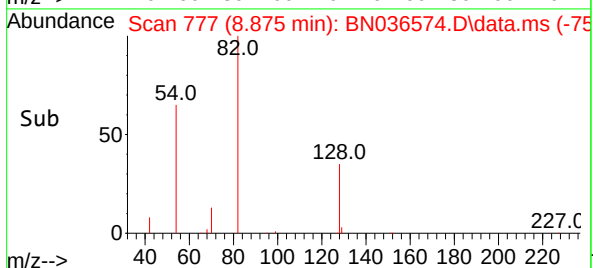
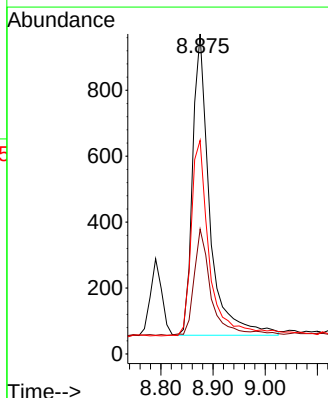
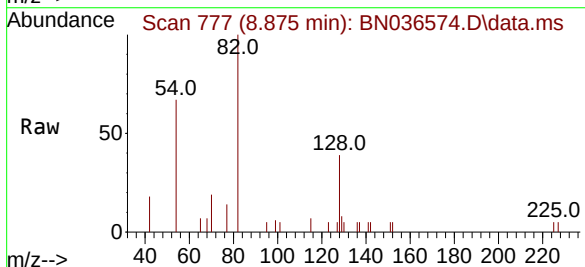
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

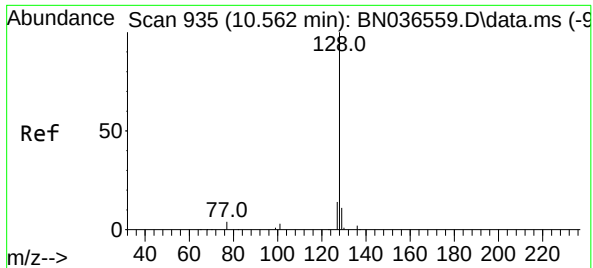
Tgt Ion:	136	Resp:	5467
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.5	11.5	17.3
68	8.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:	82	Resp:	2084
Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	66.7	52.2	78.4

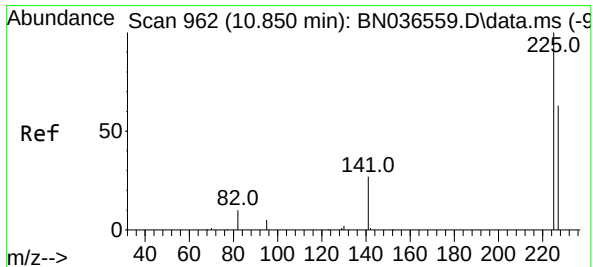
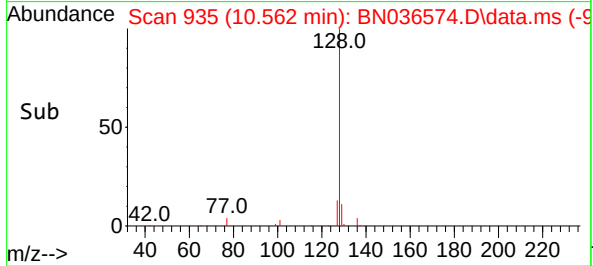
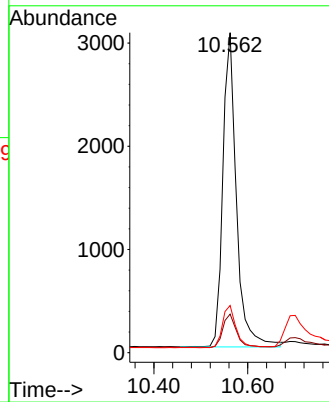
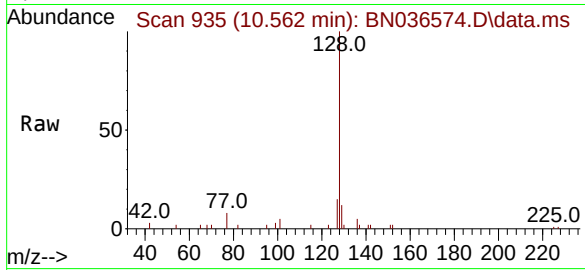




#9
Naphthalene
Concen: 0.379 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

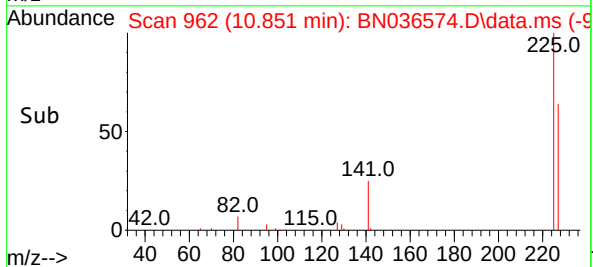
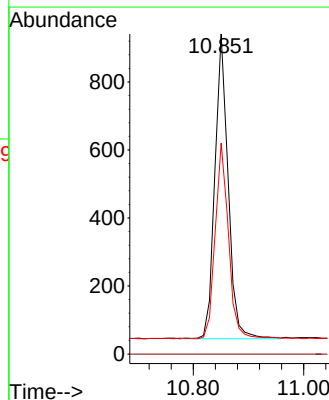
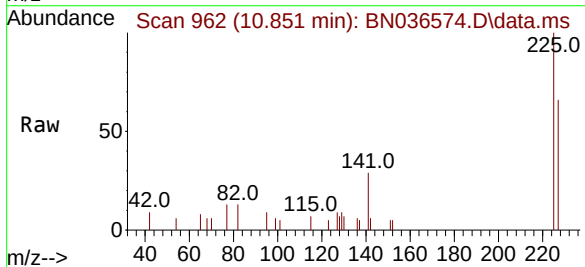
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

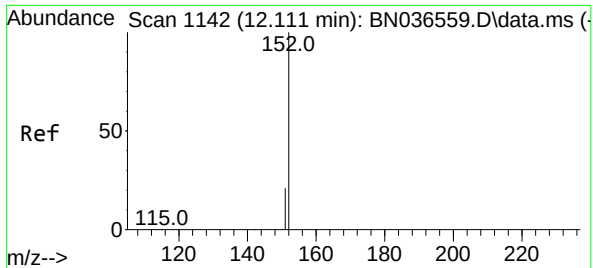
Tgt Ion:	128	Resp:	6096
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.7	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:	225	Resp:	1495
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8

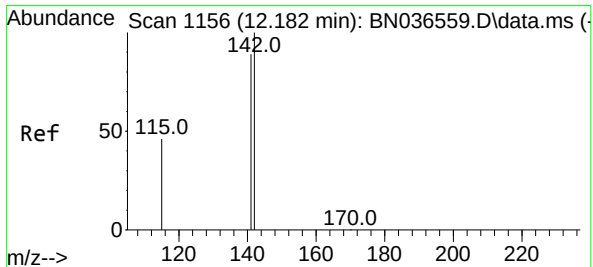
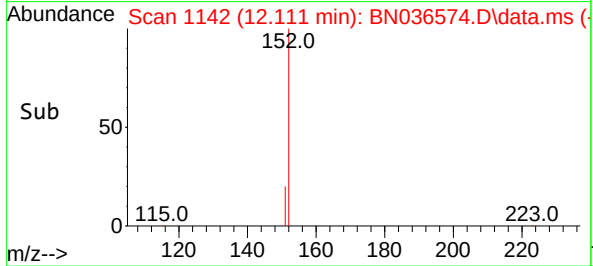
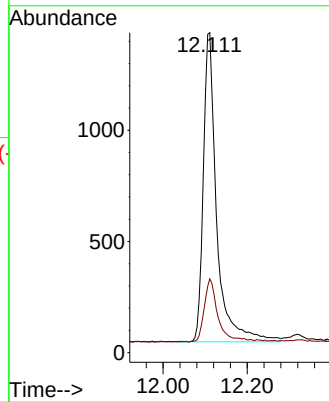
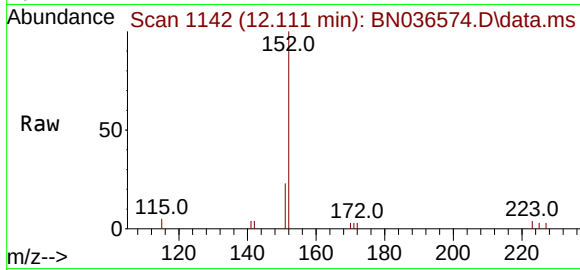




#11
2-Methylnaphthalene-d10
Concen: 0.378 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

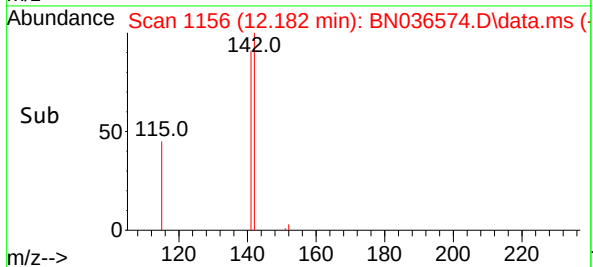
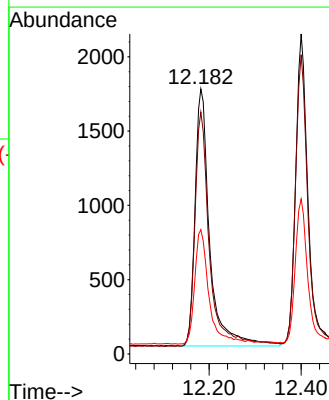
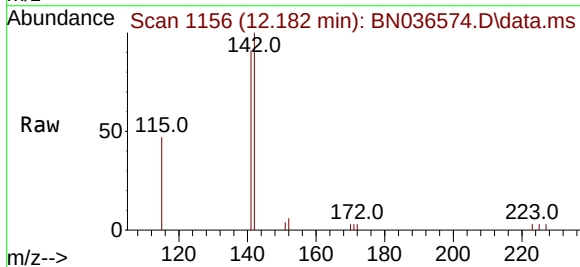
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

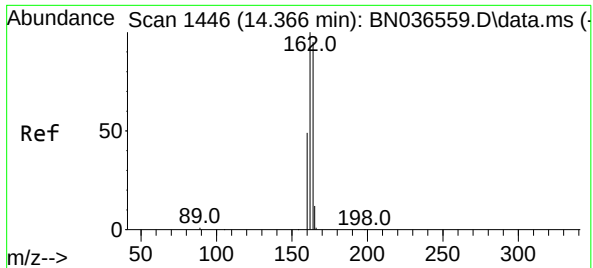
Tgt Ion:152 Resp: 3077
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.376 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:142 Resp: 3851
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 46.9 38.3 57.5

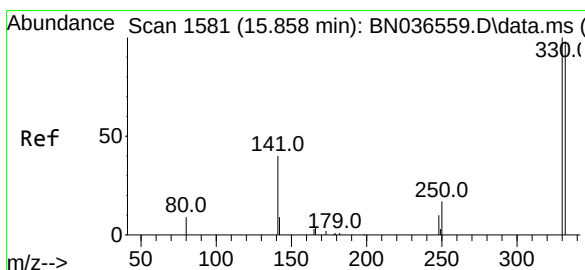
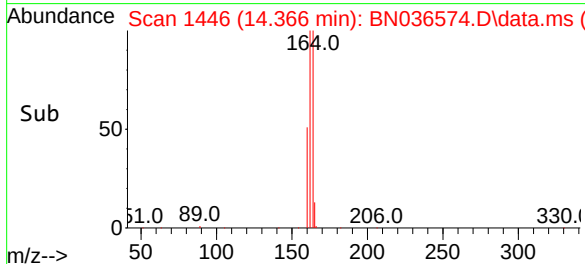
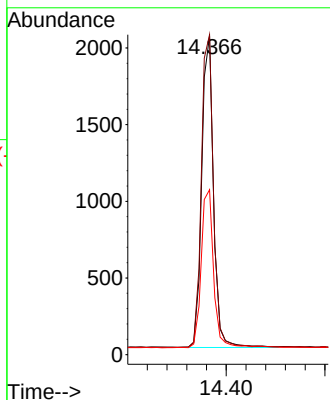
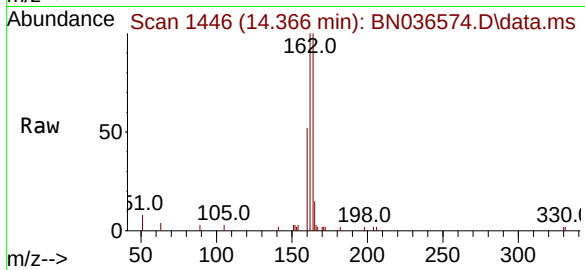




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

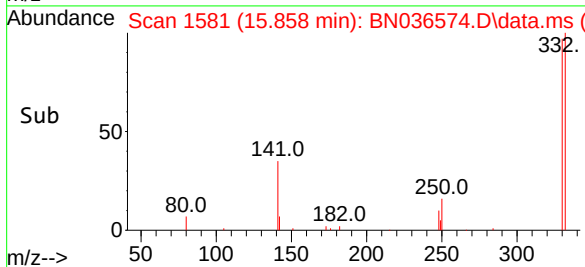
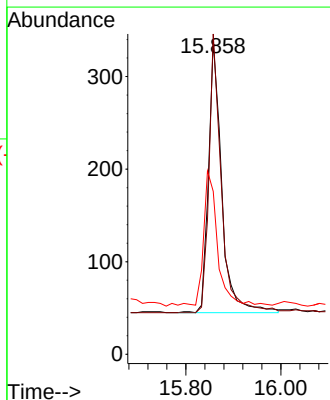
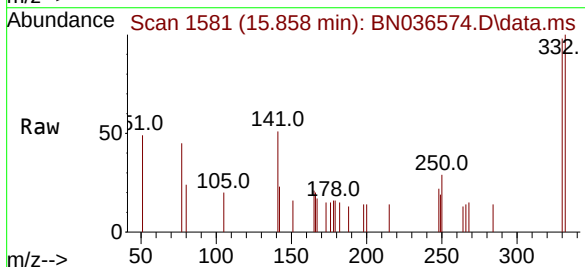
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

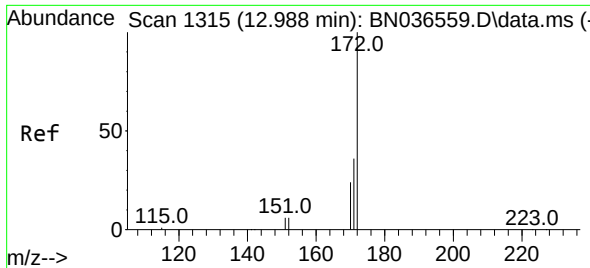
Tgt Ion:164 Resp: 3343
Ion Ratio Lower Upper
164 100
162 100.3 84.2 126.2
160 51.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.376 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:330 Resp: 570
Ion Ratio Lower Upper
330 100
332 96.0 75.2 112.8
141 53.9 43.4 65.2

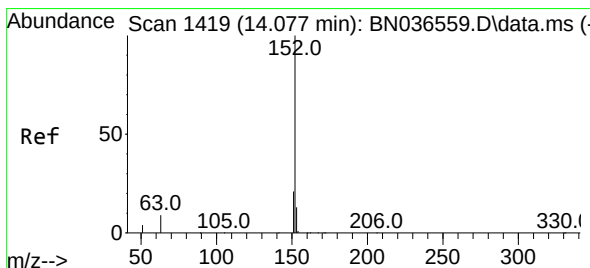
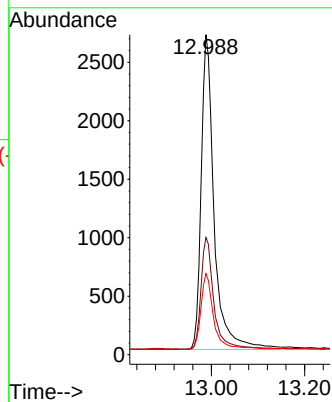
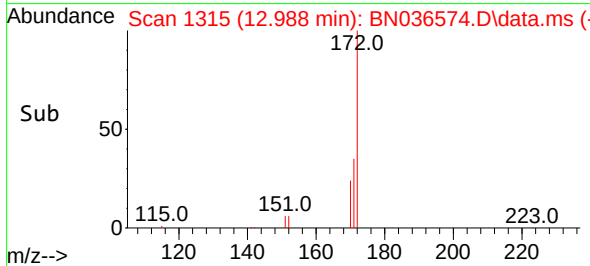
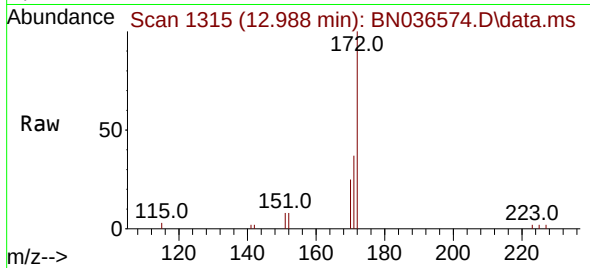




#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

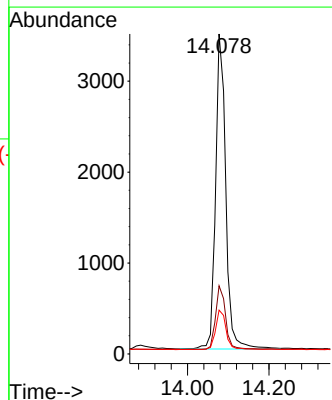
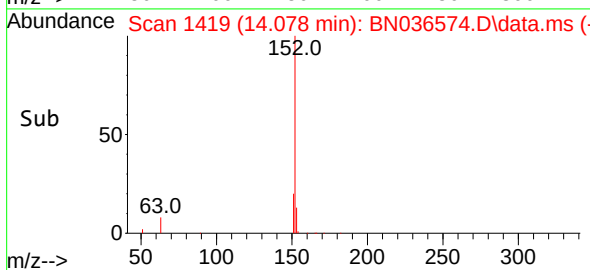
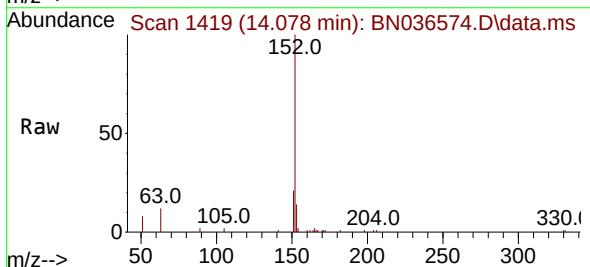
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

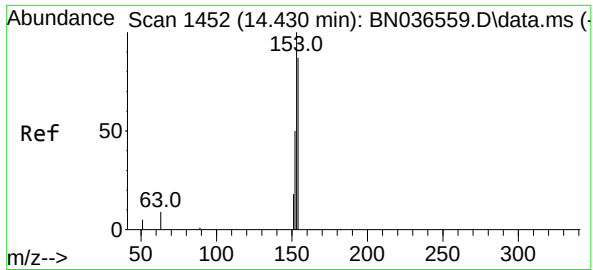
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	25.3	20.2	30.4



#16
Acenaphthylene
Concen: 0.381 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.4
153	12.9	10.6	15.8

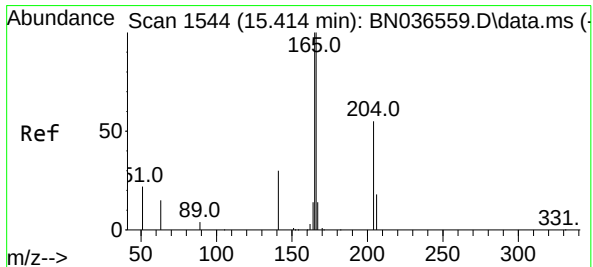
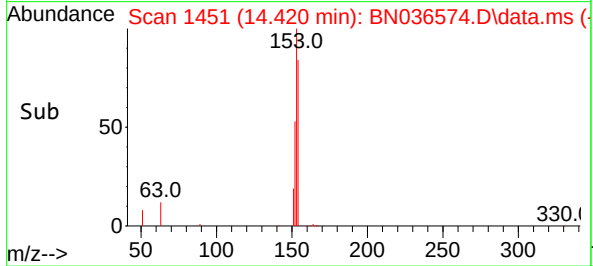
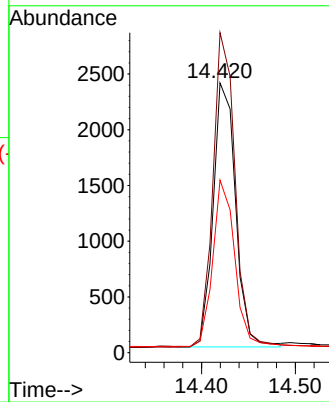
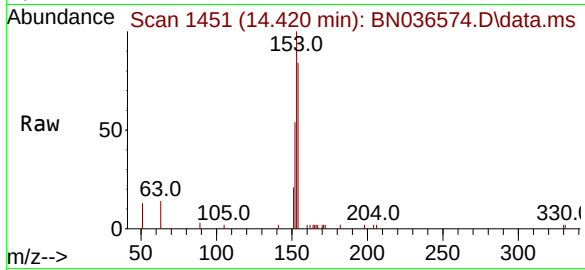




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

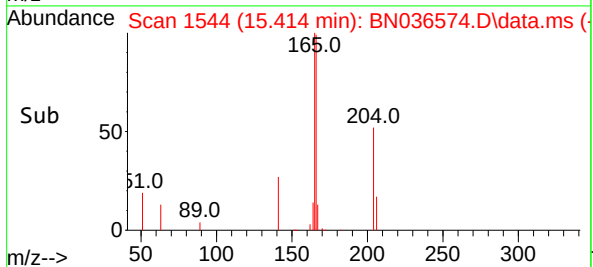
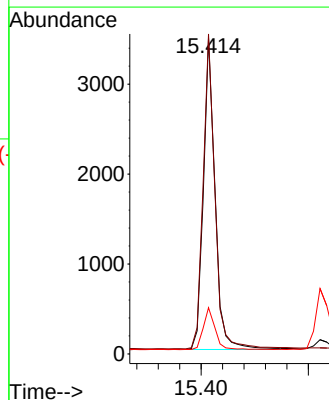
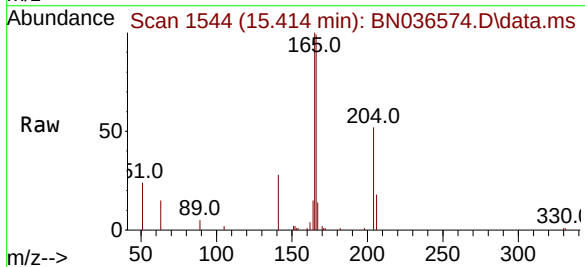
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

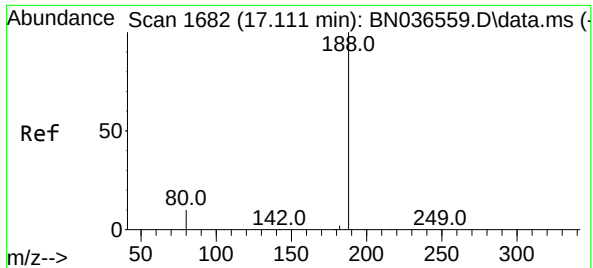
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.4	94.1	141.1
152	62.0	49.8	74.6



#18
Fluorene
Concen: 0.388 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.8	119.8
167	13.5	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

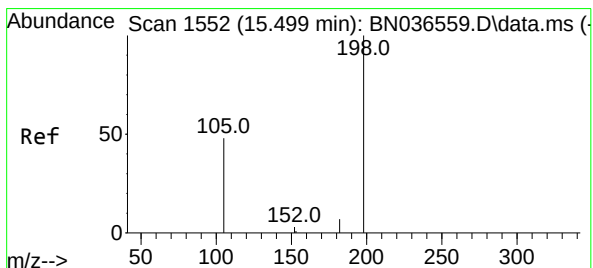
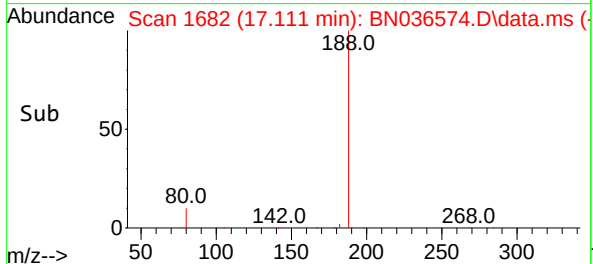
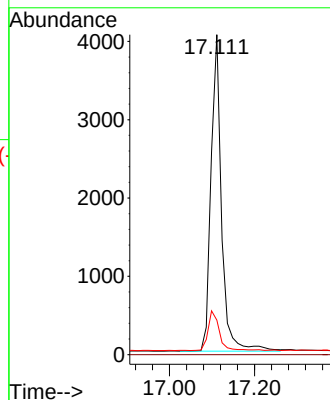
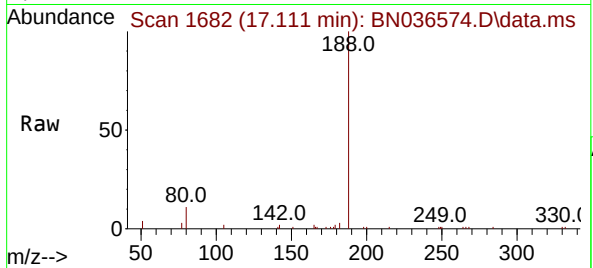
Tgt Ion:188 Resp: 6922

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.376 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

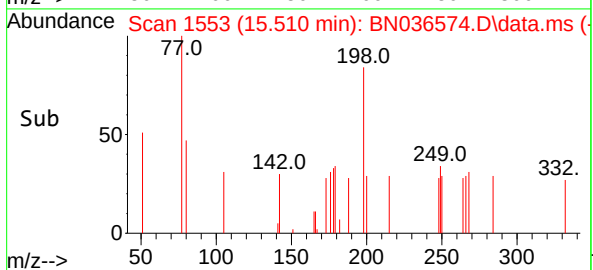
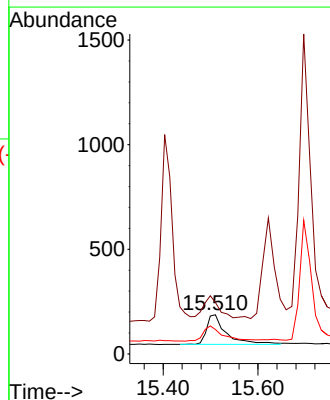
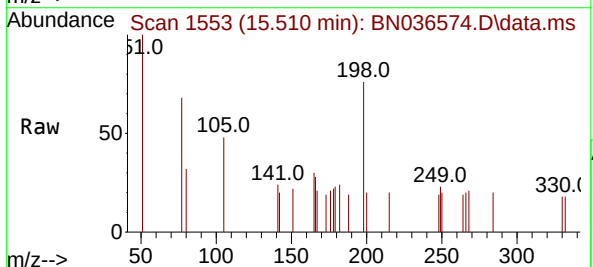
Tgt Ion:198 Resp: 407

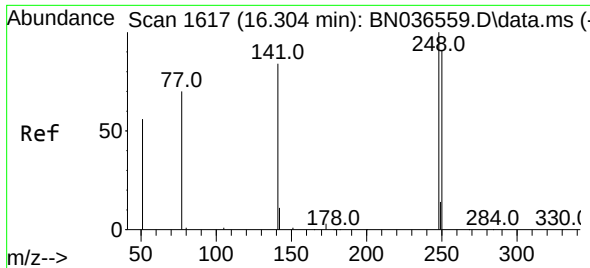
Ion Ratio Lower Upper

198 100

51 131.6 107.9 161.9

105 62.6 56.2 84.2

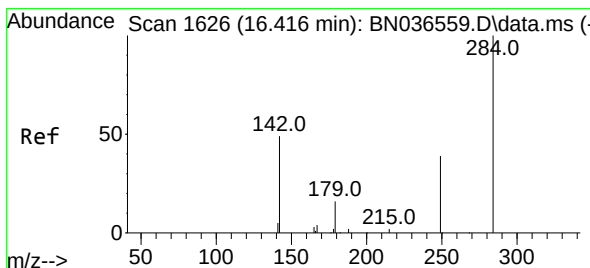
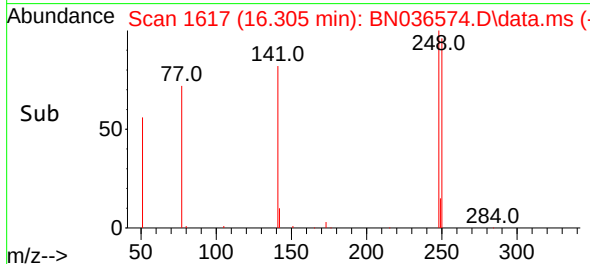
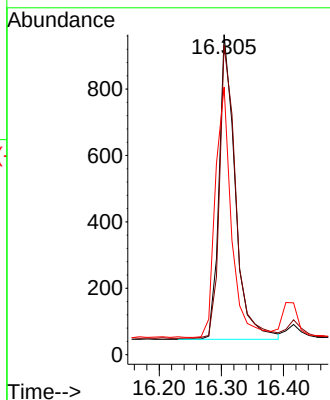
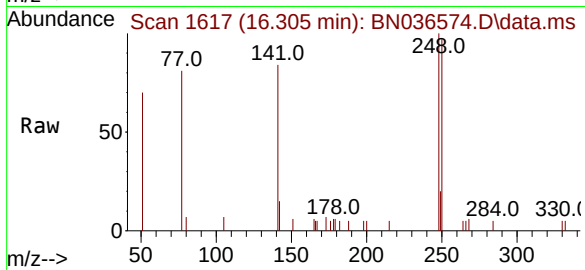




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

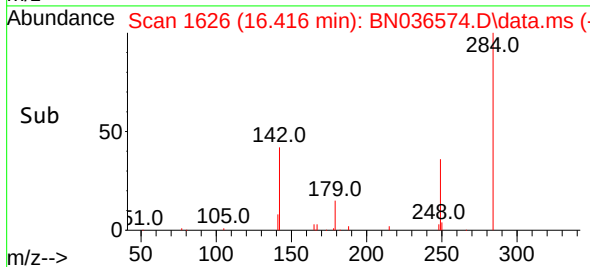
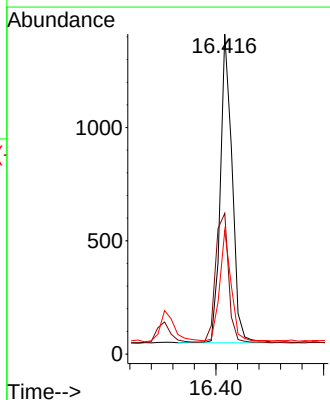
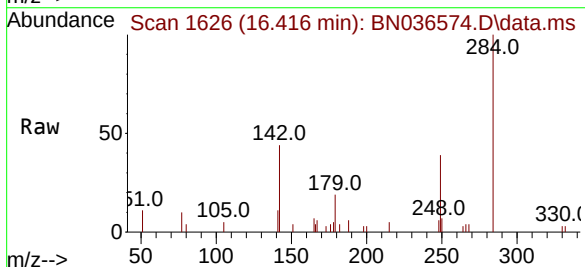
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

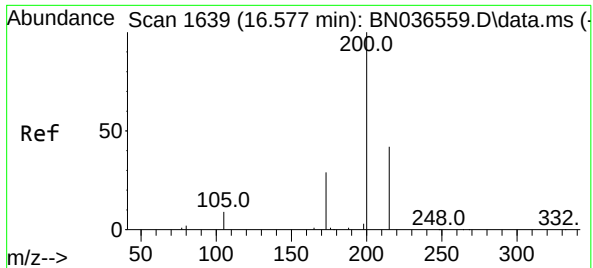
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.7	73.0	109.6
141	83.6	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.396 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.4	37.0	55.4
249	34.8	28.1	42.1

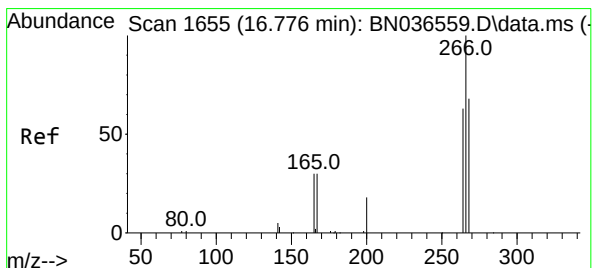
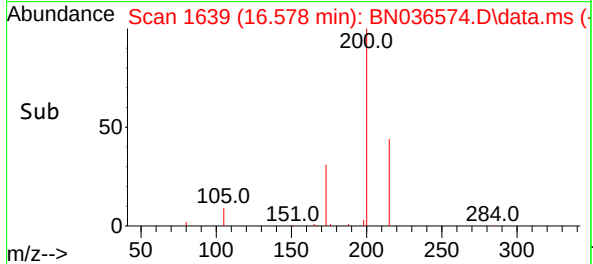
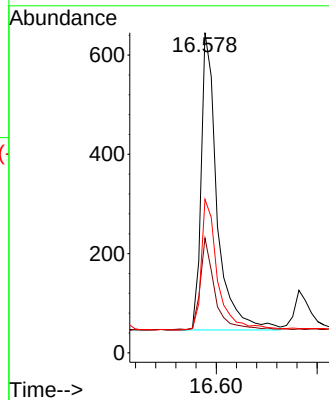
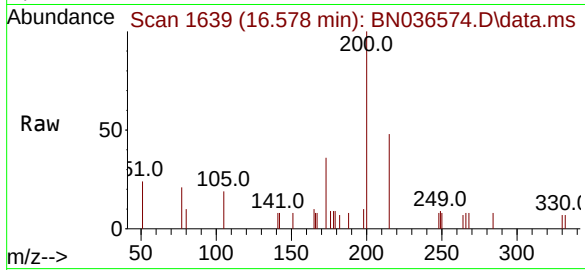




#23
Atrazine
Concen: 0.379 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

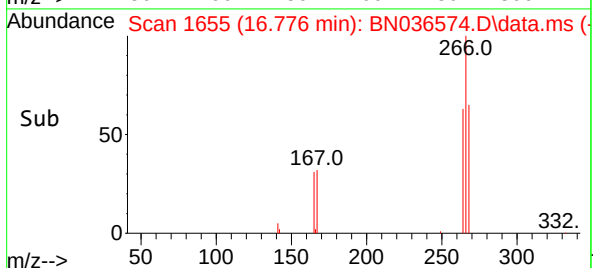
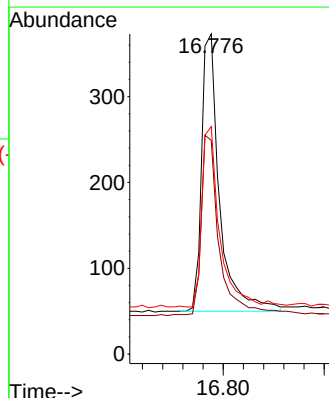
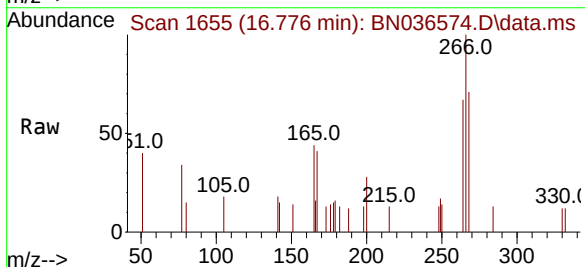
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

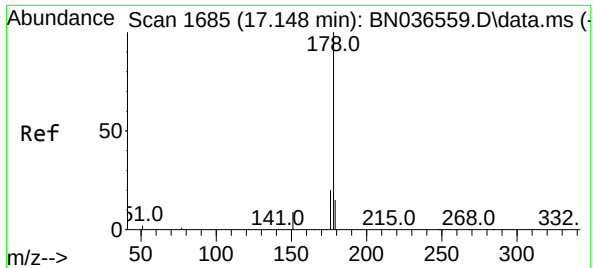
Tgt Ion:200 Resp: 1319
Ion Ratio Lower Upper
200 100
173 35.8 27.3 40.9
215 47.9 36.8 55.2



#24
Pentachlorophenol
Concen: 0.335 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:266 Resp: 800
Ion Ratio Lower Upper
266 100
264 65.5 49.6 74.4
268 63.4 50.9 76.3

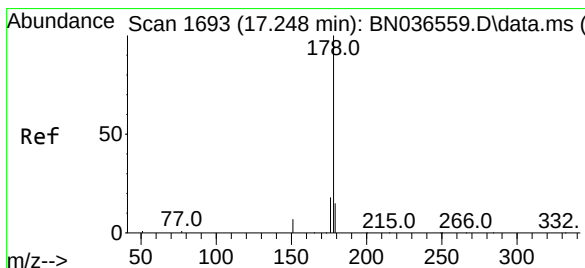
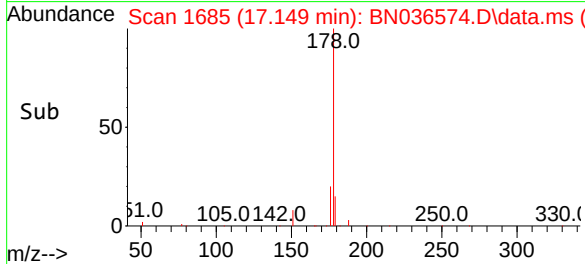
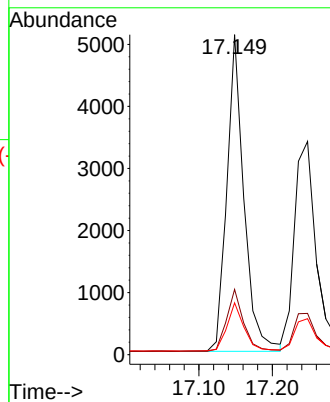
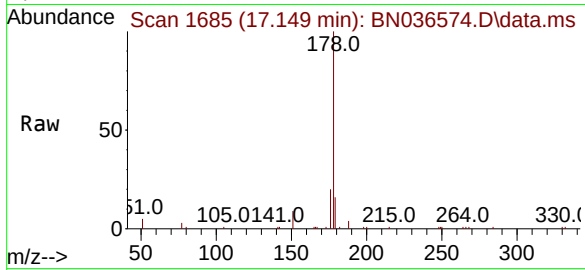




#25
Phenanthrene
Concen: 0.397 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

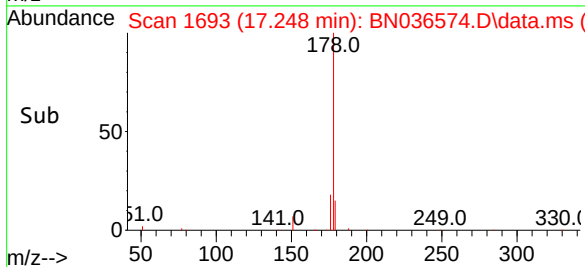
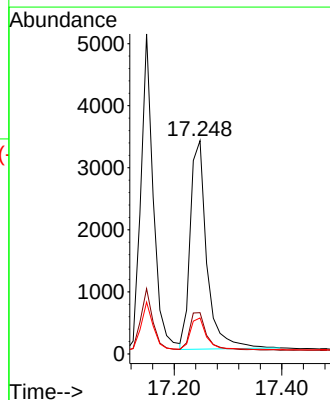
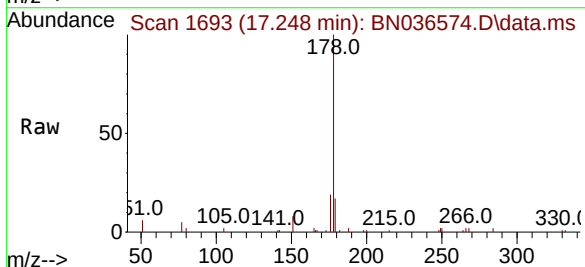
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

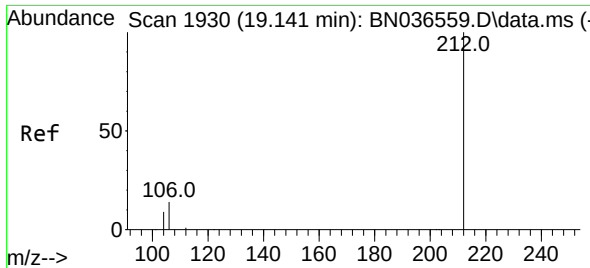
Tgt Ion:178 Resp: 8248
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.384 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:178 Resp: 7203
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.1 12.6 18.8

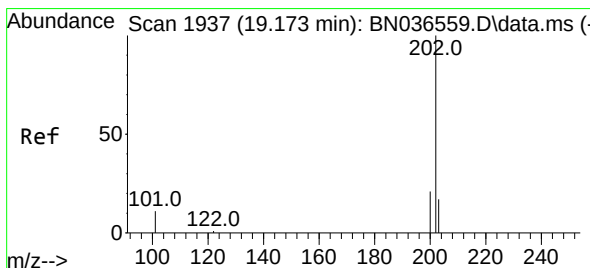
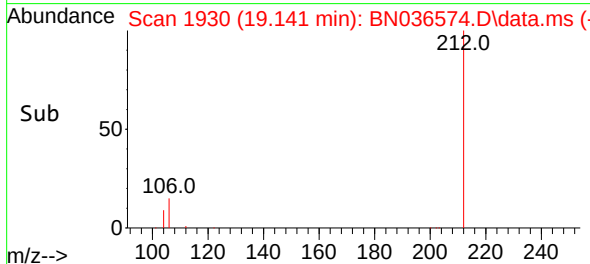
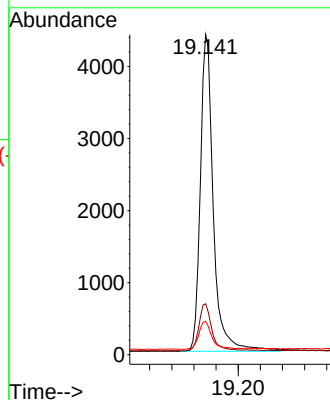
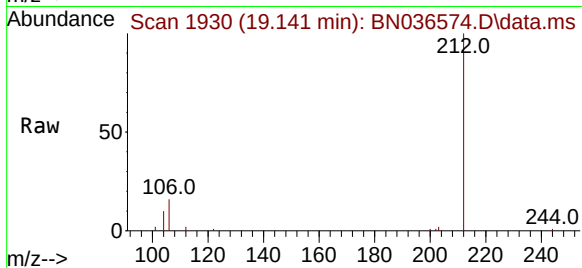




#27
Fluoranthene-d10
Concen: 0.405 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

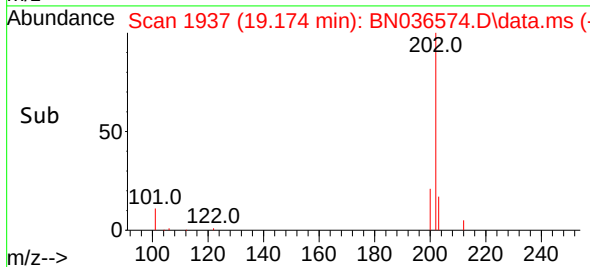
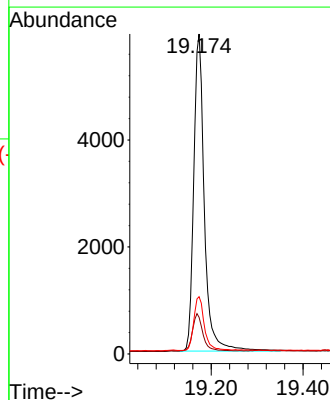
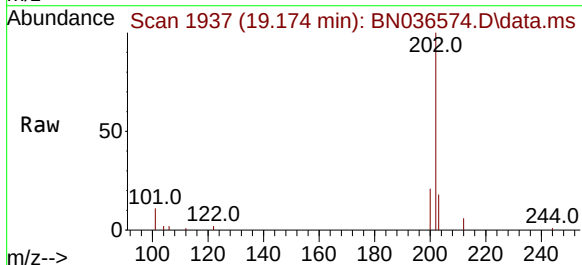
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

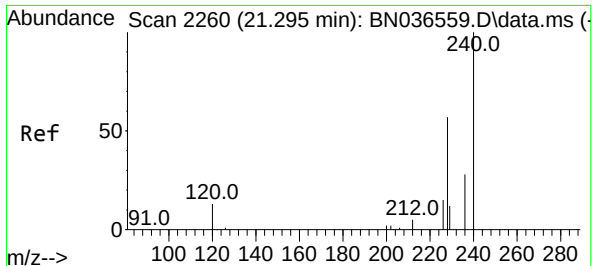
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	9.0	7.3	10.9



#28
Fluoranthene
Concen: 0.408 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.4	14.0
203	16.9	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

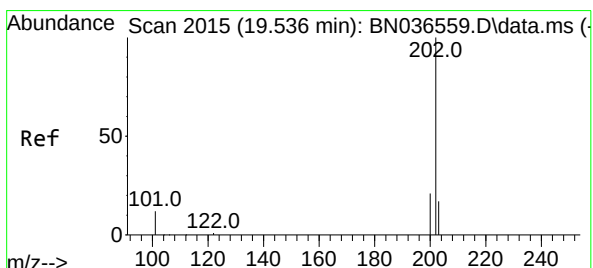
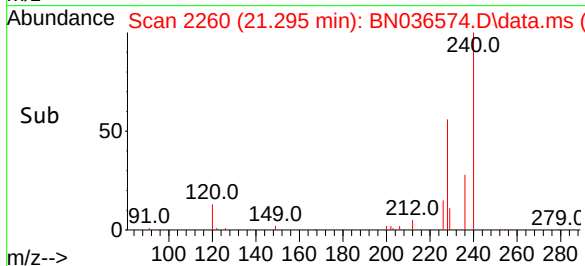
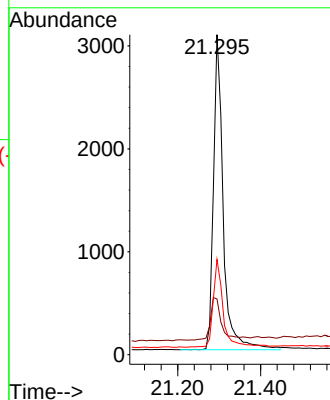
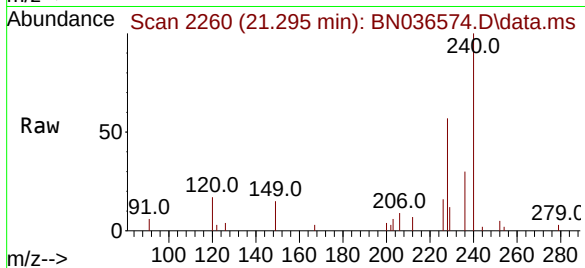
Tgt Ion:240 Resp: 4977

Ion Ratio Lower Upper

240 100

120 17.4 14.6 22.0

236 29.8 24.1 36.1



#30

Pyrene

Concen: 0.393 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

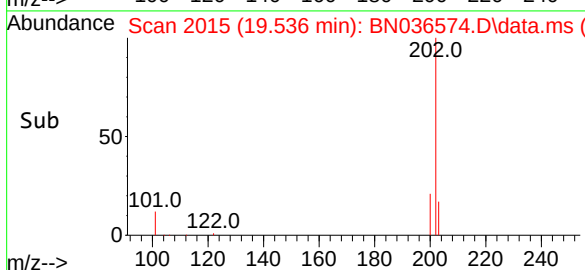
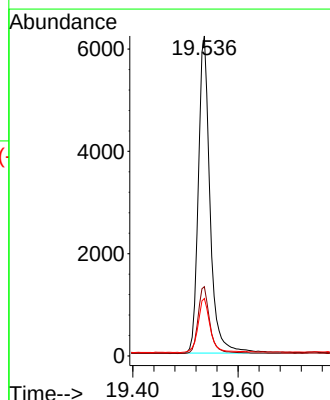
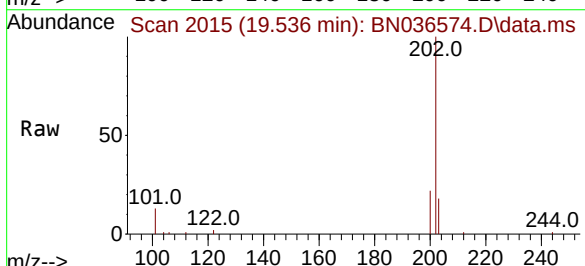
Tgt Ion:202 Resp: 9574

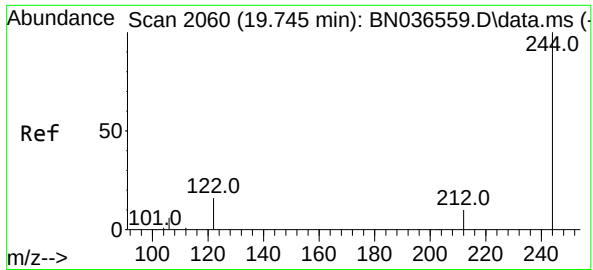
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.8 14.1 21.1

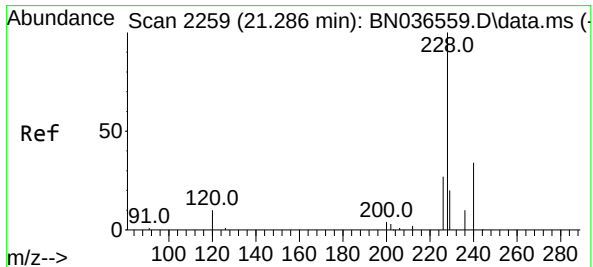
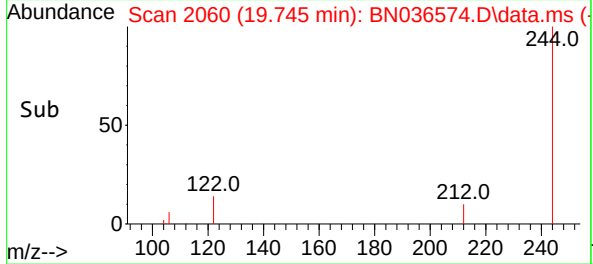
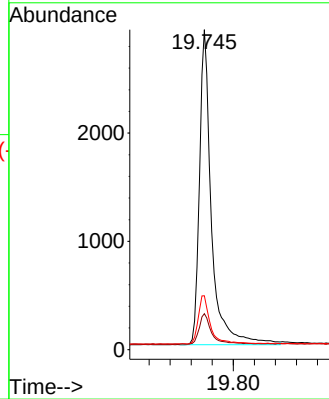
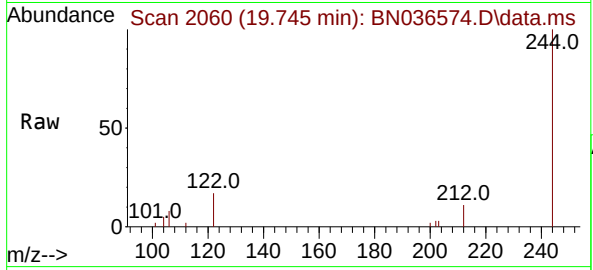




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

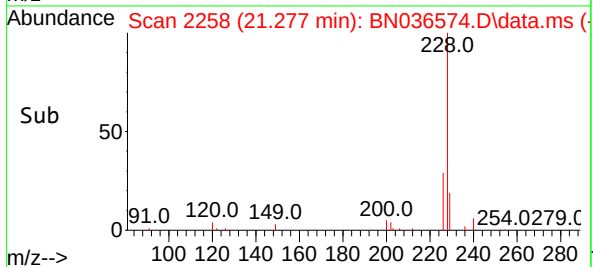
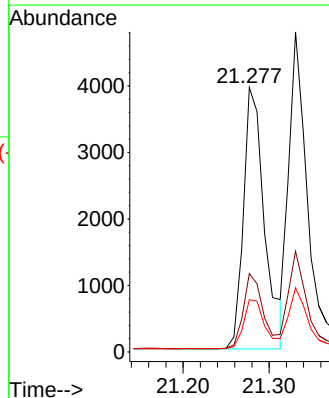
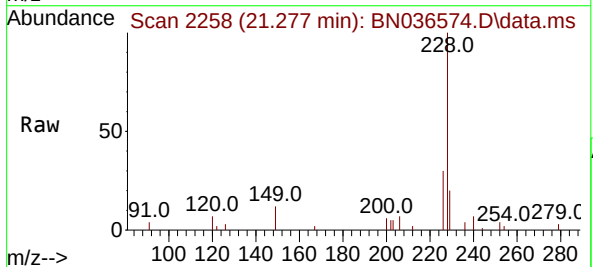
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

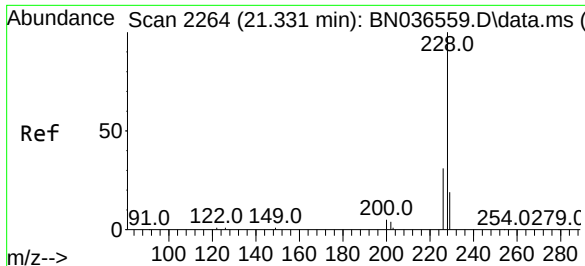
Tgt Ion:244 Resp: 4607
Ion Ratio Lower Upper
244 100
212 11.2 9.6 14.4
122 16.8 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.386 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:228 Resp: 6681
Ion Ratio Lower Upper
228 100
226 29.6 22.5 33.7
229 19.7 16.6 25.0





#33

Chrysene

Concen: 0.395 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

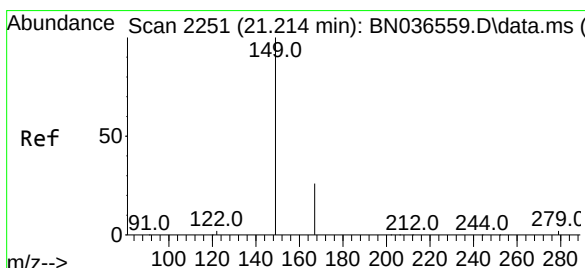
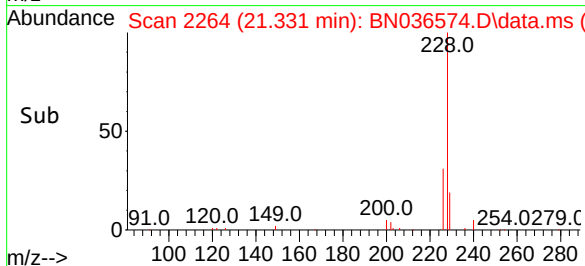
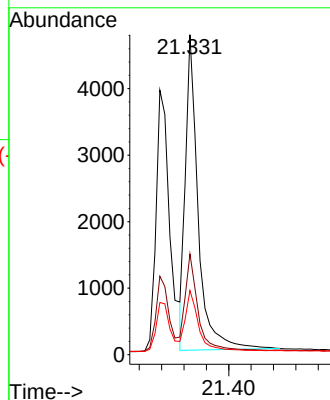
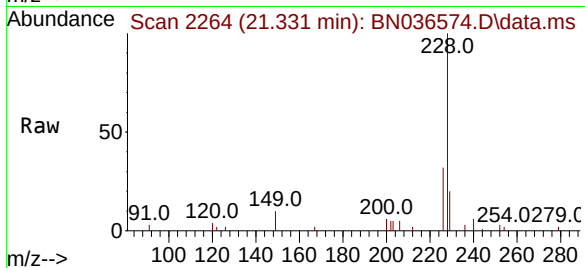
Tgt Ion:228 Resp: 7472

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.387 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

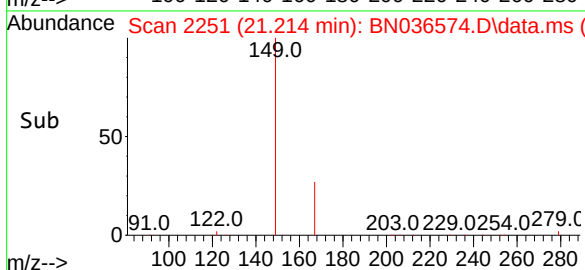
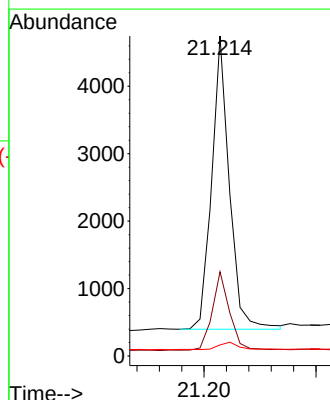
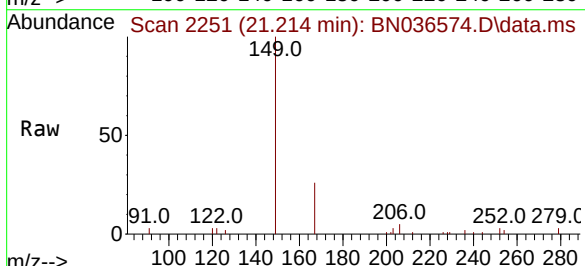
Tgt Ion:149 Resp: 4774

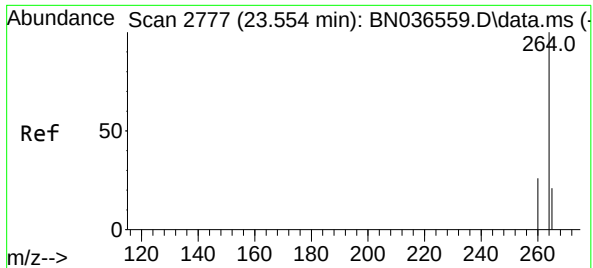
Ion Ratio Lower Upper

149 100

167 26.9 20.7 31.1

279 3.0 3.6 5.4#

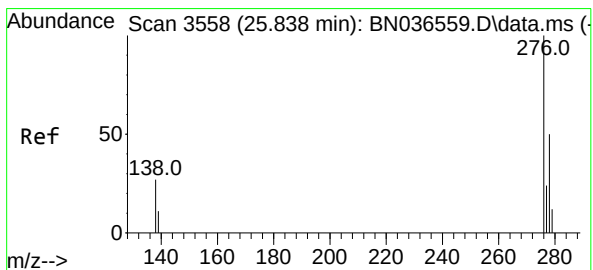
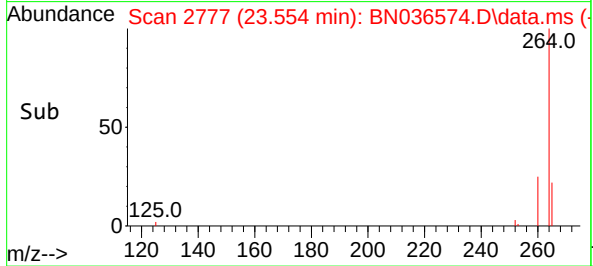
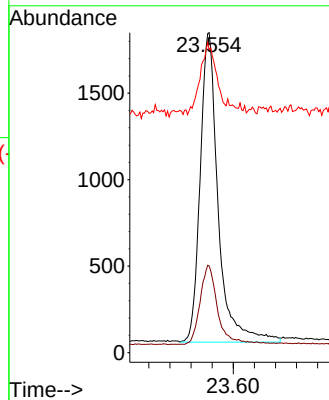
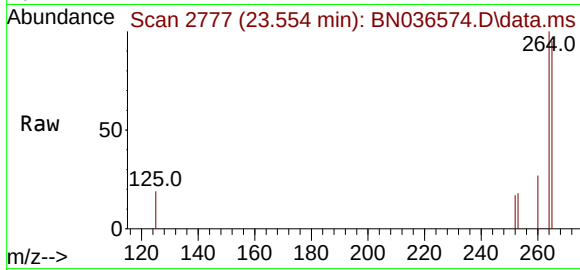




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

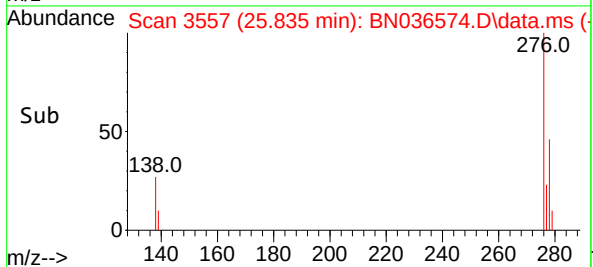
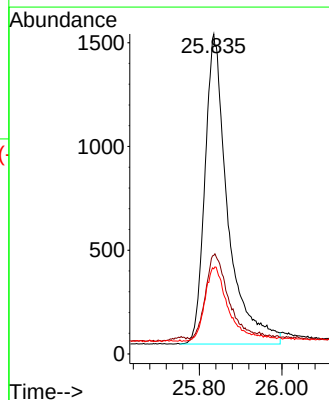
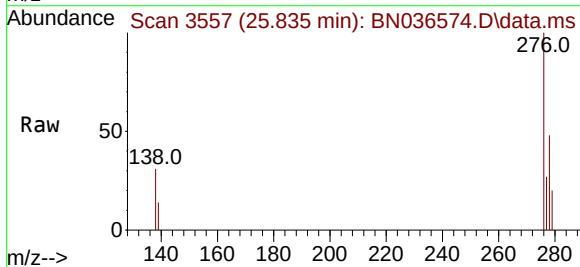
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

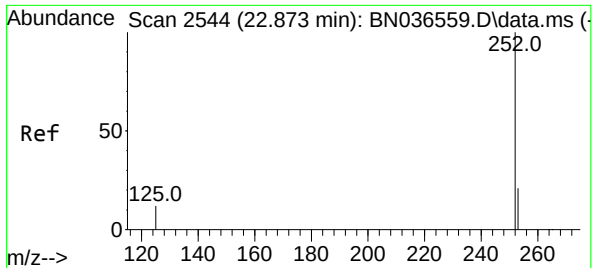
Tgt Ion:	264	Resp:	4232
Ion Ratio	Lower	Upper	
264	100		
260	27.1	22.6	33.8
265	94.7	88.1	132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.375 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036574.D
Acq: 11 Mar 2025 10:08

Tgt Ion:	276	Resp:	5731
Ion Ratio	Lower	Upper	
276	100		
138	27.2	23.4	35.2
277	23.9	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

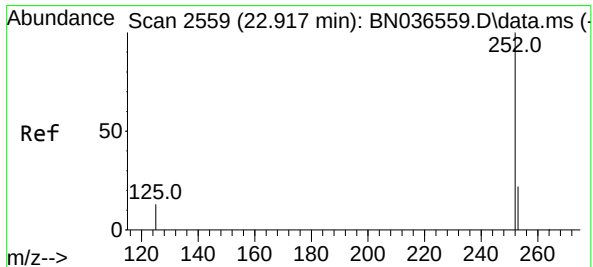
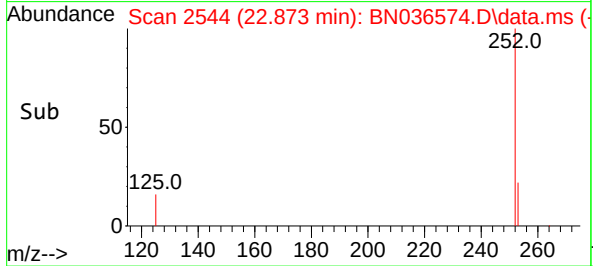
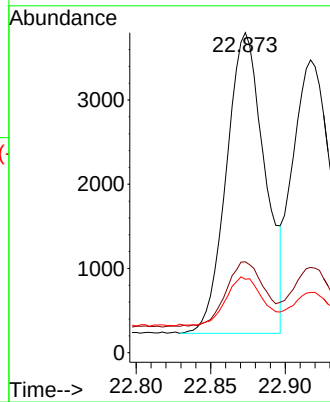
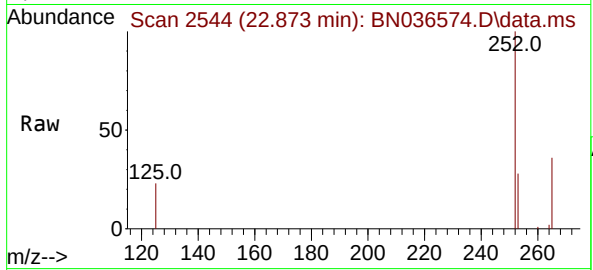
Tgt Ion:252 Resp: 6389

Ion Ratio Lower Upper

252 100

253 28.4 23.9 35.9

125 23.0 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.403 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

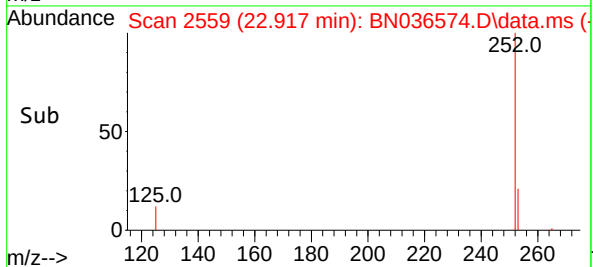
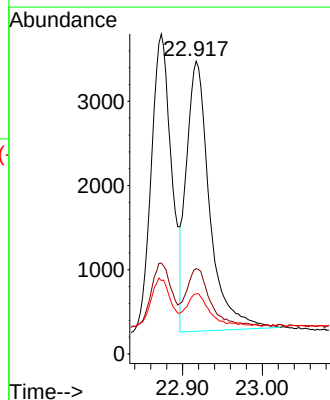
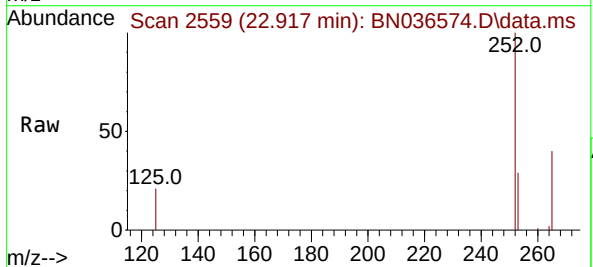
Tgt Ion:252 Resp: 6510

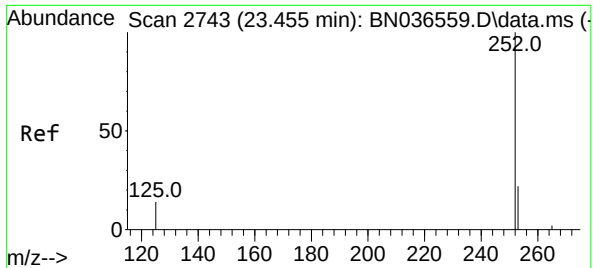
Ion Ratio Lower Upper

252 100

253 29.1 24.6 36.8

125 20.6 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.421 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

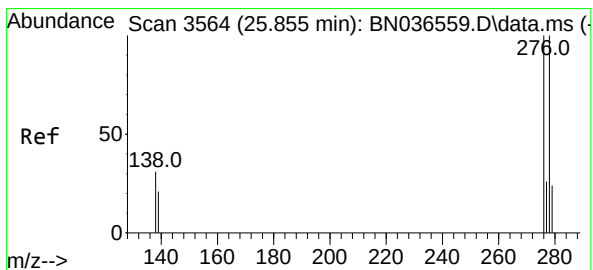
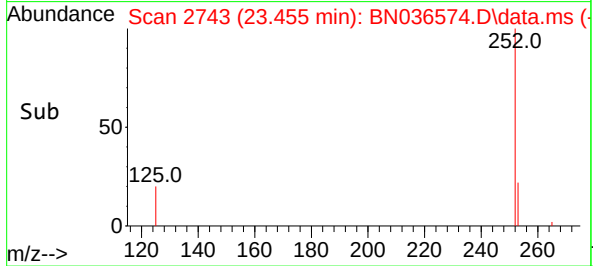
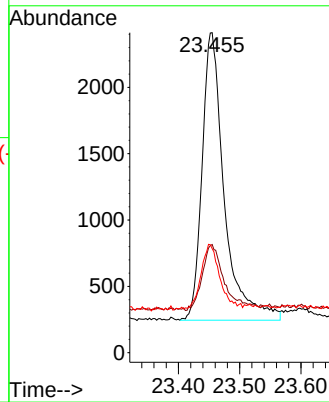
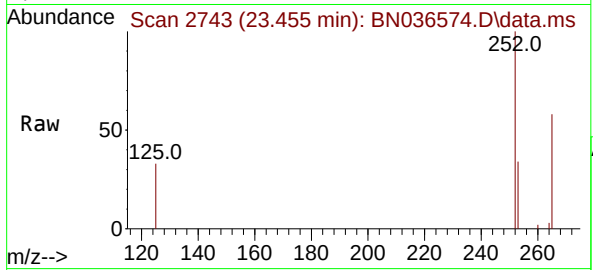
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	5454
Ion Ratio	Lower	Upper	
252	100		
253	33.8	27.8	41.8
125	32.5	22.7	34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

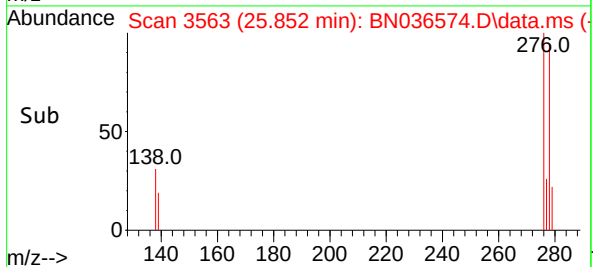
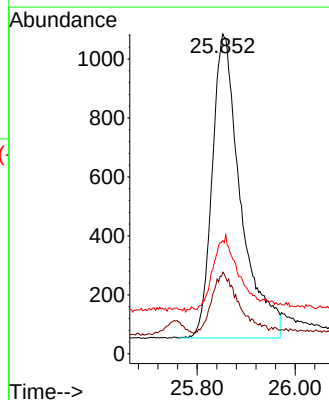
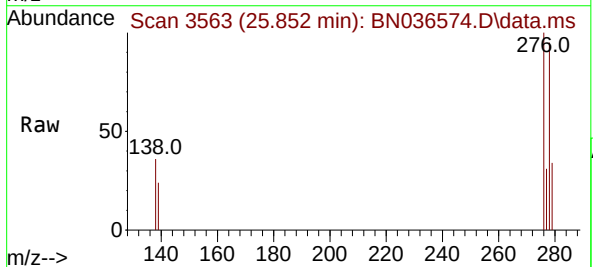
RT: 25.852 min Scan# 3563

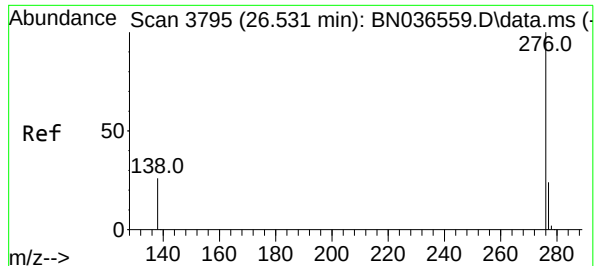
Delta R.T. -0.003 min

Lab File: BN036574.D

Acq: 11 Mar 2025 10:08

Tgt Ion:	278	Resp:	4158
Ion Ratio	Lower	Upper	
278	100		
139	25.5	20.8	31.2
279	35.4	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.384 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036574.D

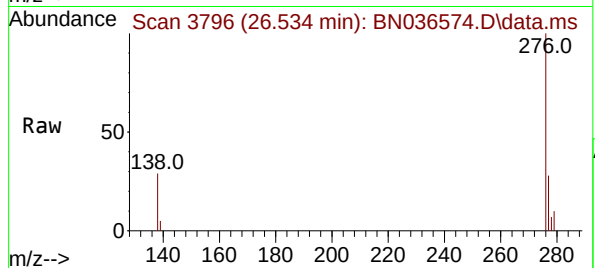
Acq: 11 Mar 2025 10:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



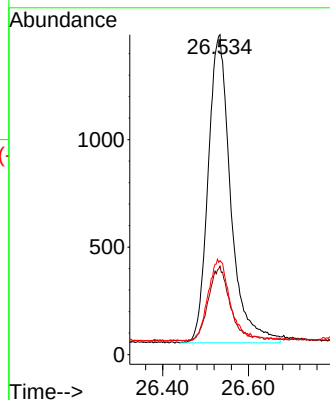
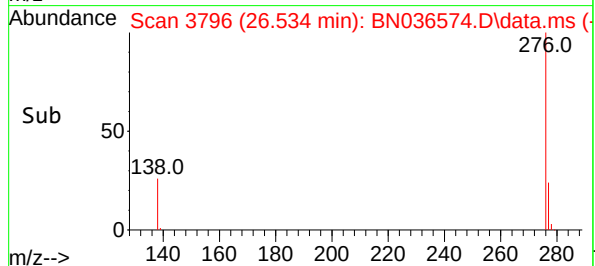
Tgt Ion:276 Resp: 5220

Ion Ratio Lower Upper

276 100

277 27.6 22.2 33.4

138 29.4 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036574.D
Acq On : 11 Mar 2025 10:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 11 10:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	104	0.00
2	1,4-Dioxane	0.444	0.507	-14.2	106	0.00
3	n-Nitrosodimethylamine	0.898	0.859	4.3	96	0.00
4 S	2-Fluorophenol	0.932	0.903	3.1	95	0.00
5 S	Phenol-d6	1.152	1.059	8.1	98	0.00
6	bis(2-Chloroethyl)ether	1.190	1.109	6.8	98	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.435	0.381	12.4	99	0.00
9	Naphthalene	1.177	1.115	5.3	99	0.00
10	Hexachlorobutadiene	0.277	0.273	1.4	100	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.563	5.4	100	0.00
12	2-Methylnaphthalene	0.749	0.704	6.0	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.182	0.171	6.0	101	0.00
15 S	2-Fluorobiphenyl	2.327	2.112	9.2	97	0.00
16	Acenaphthylene	1.888	1.796	4.9	102	0.00
17	Acenaphthene	1.236	1.179	4.6	102	-0.01
18	Fluorene	1.672	1.620	3.1	101	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	115	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.059	31.4#	88	0.01
21	4-Bromophenyl-phenylether	0.251	0.238	5.2	100	0.00
22	Hexachlorobenzene	0.303	0.299	1.3	103	0.00
23	Atrazine	0.201	0.191	5.0	103	0.00
24	Pentachlorophenol	0.138	0.116	15.9	97	0.00
25	Phenanthrene	1.200	1.192	0.7	106	0.00
26	Anthracene	1.083	1.041	3.9	105	0.00
27 SURR	Fluoranthene-d10	1.025	1.038	-1.3	107	0.00
28	Fluoranthene	1.348	1.375	-2.0	109	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	121	0.00
30	Pyrene	1.956	1.924	1.6	109	0.00
31 S	Terphenyl-d14	0.958	0.926	3.3	109	0.00
32	Benzo(a)anthracene	1.391	1.342	3.5	113	0.00
33	Chrysene	1.520	1.501	1.3	113	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.959	3.1	111	0.00
35 I	Perylene-d12	1.000	1.000	0.0	120	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.354	6.2	105	0.00
37	Benzo(b)fluoranthene	1.456	1.510	-3.7	117	0.00
38	Benzo(k)fluoranthene	1.527	1.538	-0.7	114	0.00
39 C	Benzo(a)pyrene	1.226	1.289	-5.1	118	0.00
40	Dibenzo(a,h)anthracene	1.124	0.983	12.5	101	0.00
41	Benzo(g,h,i)perylene	1.286	1.233	4.1	107	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036574.D
Acq On : 11 Mar 2025 10:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 11 10:37:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	104	0.00
2	1,4-Dioxane	0.400	0.457	-14.2	106	0.00
3	n-Nitrosodimethylamine	0.400	0.383	4.3	96	0.00
4 S	2-Fluorophenol	0.400	0.387	3.3	95	0.00
5 S	Phenol-d6	0.400	0.368	8.0	98	0.00
6	bis(2-Chloroethyl)ether	0.400	0.373	6.8	98	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.350	12.5	99	0.00
9	Naphthalene	0.400	0.379	5.3	99	0.00
10	Hexachlorobutadiene	0.400	0.395	1.3	100	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.378	5.5	100	0.00
12	2-Methylnaphthalene	0.400	0.376	6.0	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.400	0.376	6.0	101	0.00
15 S	2-Fluorobiphenyl	0.400	0.363	9.3	97	0.00
16	Acenaphthylene	0.400	0.381	4.8	102	0.00
17	Acenaphthene	0.400	0.382	4.5	102	-0.01
18	Fluorene	0.400	0.388	3.0	101	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	115	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.376	6.0	88	0.01
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	100	0.00
22	Hexachlorobenzene	0.400	0.396	1.0	103	0.00
23	Atrazine	0.400	0.379	5.3	103	0.00
24	Pentachlorophenol	0.400	0.335	16.3	97	0.00
25	Phenanthrene	0.400	0.397	0.8	106	0.00
26	Anthracene	0.400	0.384	4.0	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.405	-1.3	107	0.00
28	Fluoranthene	0.400	0.408	-2.0	109	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	121	0.00
30	Pyrene	0.400	0.393	1.8	109	0.00
31 S	Terphenyl-d14	0.400	0.386	3.5	109	0.00
32	Benzo(a)anthracene	0.400	0.386	3.5	113	0.00
33	Chrysene	0.400	0.395	1.3	113	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.387	3.3	111	0.00
35 I	Perylene-d12	0.400	0.400	0.0	120	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	105	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	117	0.00
38	Benzo(k)fluoranthene	0.400	0.403	-0.8	114	0.00
39 C	Benzo(a)pyrene	0.400	0.421	-5.2	118	0.00
40	Dibenzo(a,h)anthracene	0.400	0.350	12.5	101	0.00
41	Benzo(g,h,i)perylene	0.400	0.384	4.0	107	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.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/11/2025 19:46

Lab File ID: BN036589.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.575		-3.4	50.0
Fluoranthene-d10	1.025	1.029		0.4	50.0
2-Fluorophenol	0.932	0.807		-13.4	50.0
Phenol-d6	1.152	0.937		-18.7	50.0
Nitrobenzene-d5	0.435	0.390		-10.3	50.0
2-Fluorobiphenyl	2.327	2.515		8.1	50.0
2,4,6-Tribromophenol	0.182	0.177		-2.7	50.0
Terphenyl-d14	0.958	0.946		-1.3	50.0
1,4-Dioxane	0.444	0.457		2.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
 Data File : BN036589.D
 Acq On : 11 Mar 2025 19:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/12/2025
 Supervised By :Jagrut Upadhyay 03/12/2025

Quant Time: Mar 12 01:09:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1964	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4774	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2543	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5156	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3498	0.400	ng	0.00
35) Perylene-d12	23.554	264	2998	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1585	0.346	ng	0.00
5) Phenol-d6	6.894	99	1840	0.325	ng	0.00
8) Nitrobenzene-d5	8.875	82	1860	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2744	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	450	0.390	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6396	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	5306	0.402	ng	0.00
31) Terphenyl-d14	19.745	244	3310	0.395	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	897	0.412	ng	98
3) n-Nitrosodimethylamine	3.550	42	1761	0.400	ng	95
6) bis(2-Chloroethyl)ether	7.147	93	1905	0.326	ng	99
9) Naphthalene	10.562	128	5442	0.388	ng	100
10) Hexachlorobutadiene	10.851	225	1336	0.404	ng	# 97
12) 2-Methylnaphthalene	12.182	142	3430	0.384	ng	100
16) Acenaphthylene	14.078	152	4983	0.415	ng	99
17) Acenaphthene	14.420	154	3052	0.389	ng	99
18) Fluorene	15.414	166	4246	0.400	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	375	0.430	ng	95
21) 4-Bromophenyl-phenylether	16.305	248	1311	0.406	ng	95
22) Hexachlorobenzene	16.416	284	1646	0.422	ng	98
23) Atrazine	16.578	200	1043	0.403	ng	98
24) Pentachlorophenol	16.764	266	661	0.372	ng	100
25) Phenanthrene	17.149	178	6304	0.408	ng	99
26) Anthracene	17.248	178	5453	0.391	ng	99
28) Fluoranthene	19.169	202	7017	0.404	ng	99
30) Pyrene	19.536	202	7087	0.414	ng	100
32) Benzo(a)anthracene	21.286	228	4721	0.388	ng	100
33) Chrysene	21.331	228	5431	0.409	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3858	0.445	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	4281	0.396	ng	95
37) Benzo(b)fluoranthene	22.873	252	4597m	0.421	ng	
38) Benzo(k)fluoranthene	22.920	252	4634m	0.405	ng	
39) Benzo(a)pyrene	23.455	252	3929	0.428	ng	# 92
40) Dibenzo(a,h)anthracene	25.852	278	3325	0.395	ng	98
41) Benzo(g,h,i)perylene	26.528	276	3963	0.411	ng	97

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

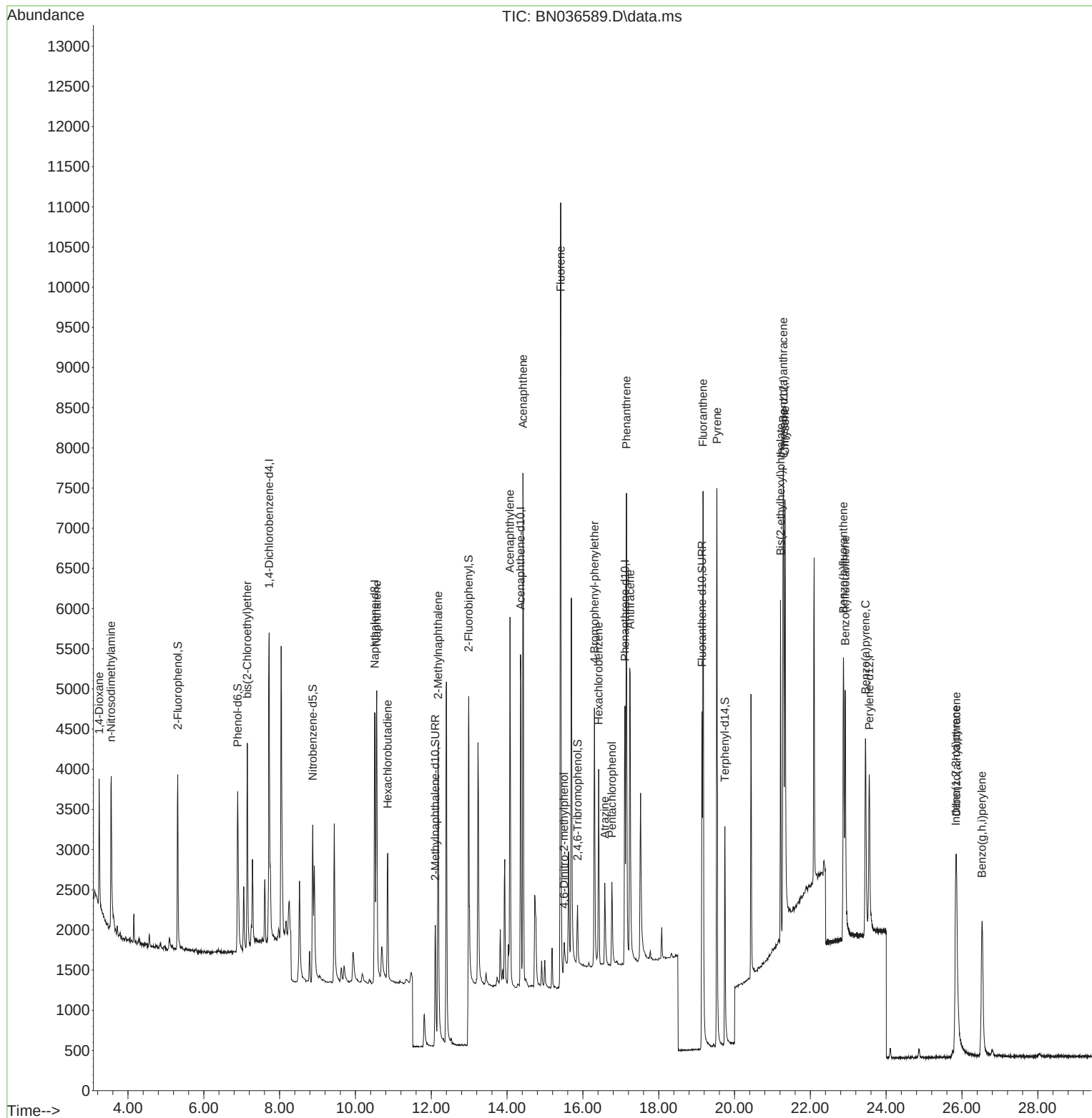
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036589.D
Acq On : 11 Mar 2025 19:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

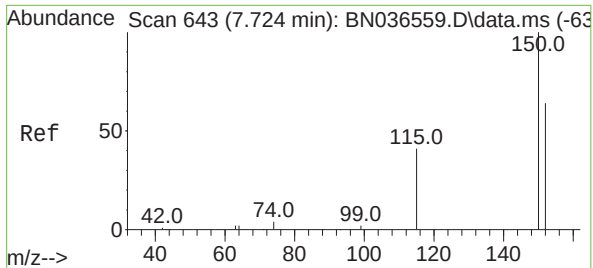
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 12 01:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
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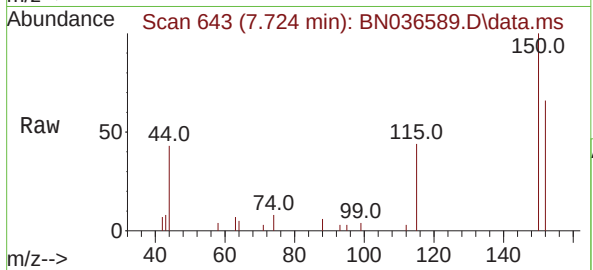
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

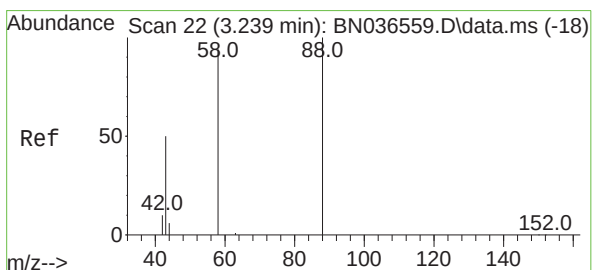
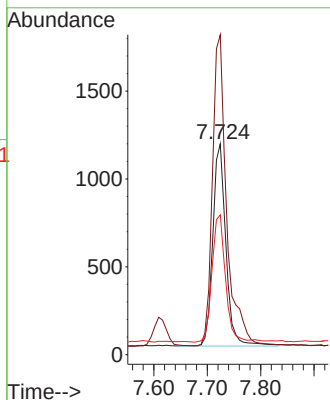
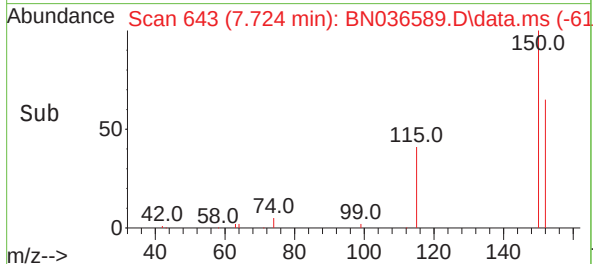
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 1964
Ion Ratio Lower Upper
152 100
150 151.7 123.7 185.5
115 66.3 54.3 81.5

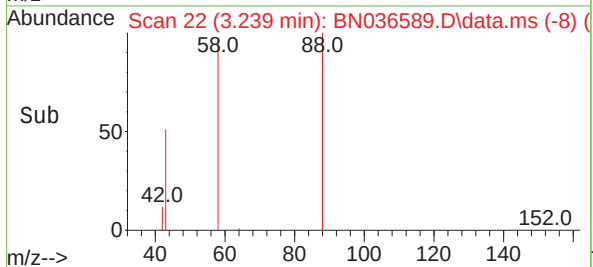
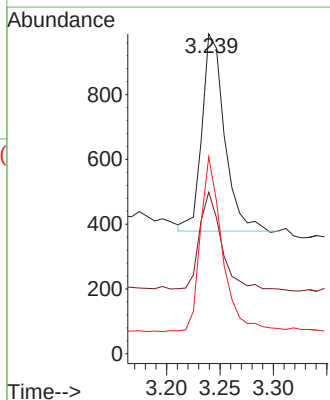
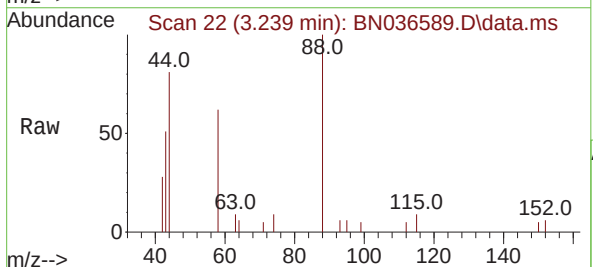
Manual Integrations
APPROVED

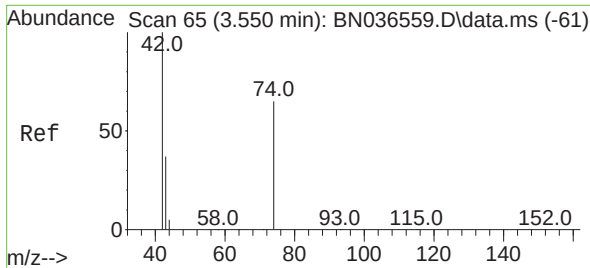
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion: 88 Resp: 897
Ion Ratio Lower Upper
88 100
43 48.8 37.8 56.8
58 86.1 67.4 101.2





#3

n-Nitrosodimethylamine

Concen: 0.400 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 176

Ion Ratio Lower Upper

42 100

74 71.6 60.6 90.8

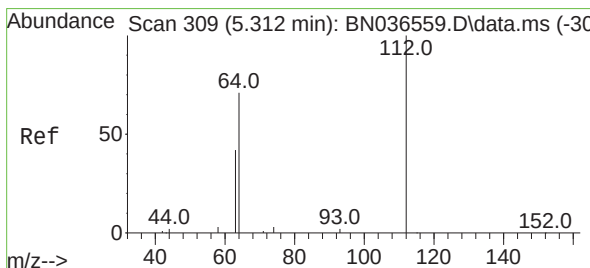
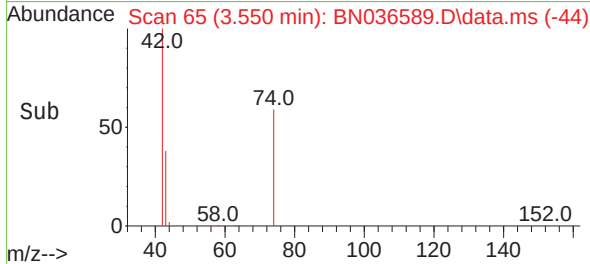
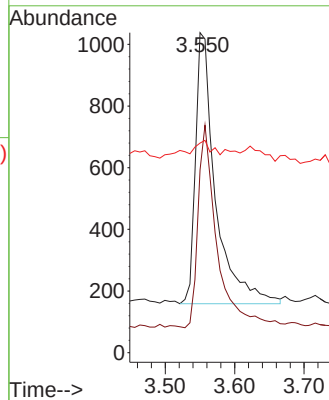
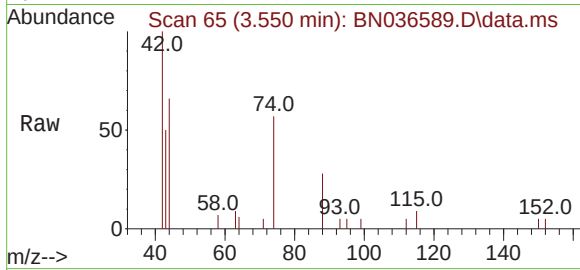
44 8.3 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



#4

2-Fluorophenol

Concen: 0.346 ng

RT: 5.312 min Scan# 309

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

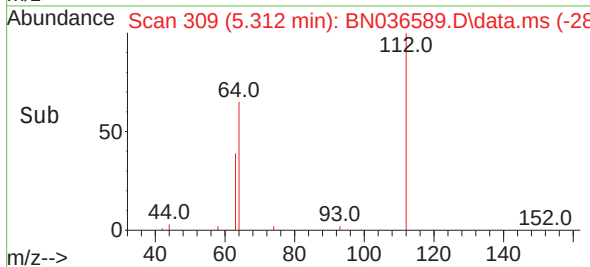
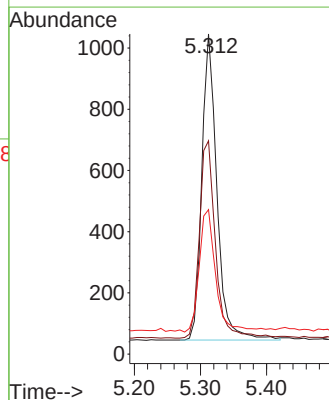
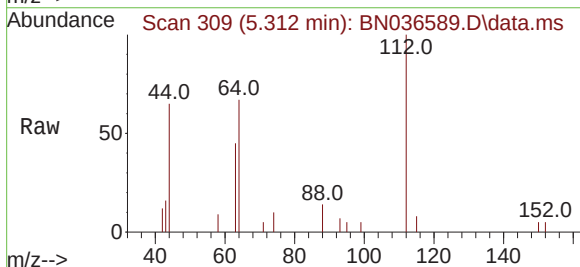
Tgt Ion:112 Resp: 1585

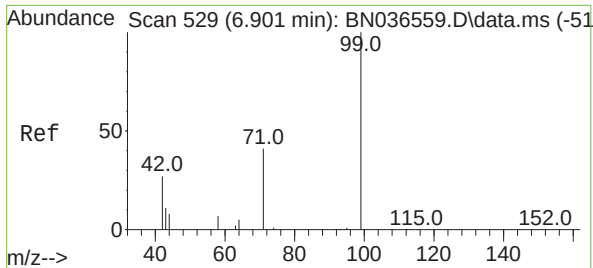
Ion Ratio Lower Upper

112 100

64 68.8 53.1 79.7

63 42.3 31.8 47.8





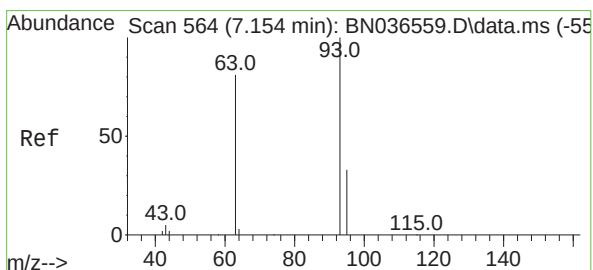
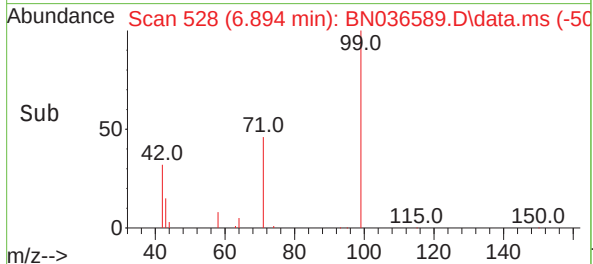
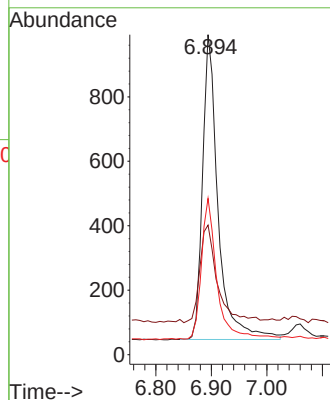
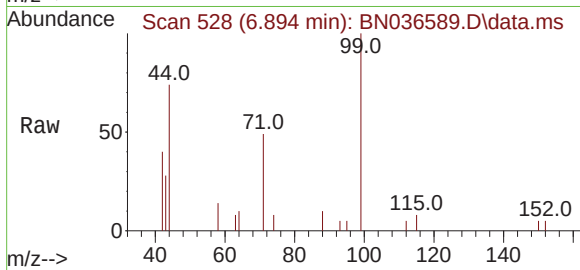
#5
Phenol-d6
Concen: 0.325 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1840
Ion Ratio Lower Upper
99 100
42 36.8 26.5 39.7
71 46.3 34.1 51.1

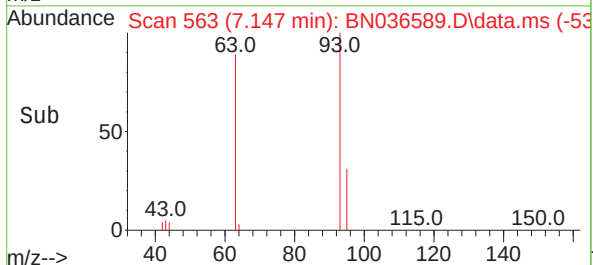
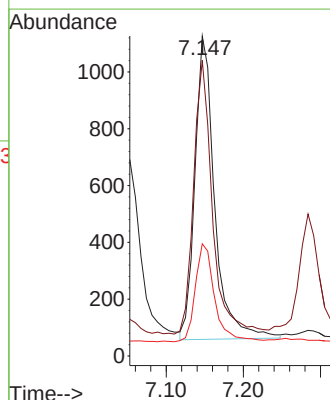
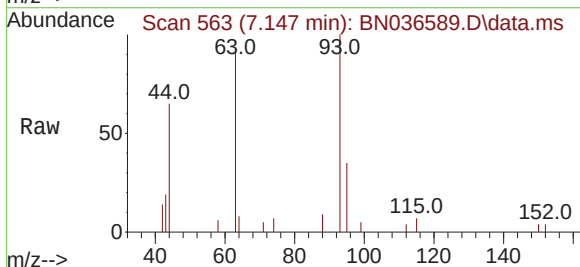
Manual Integrations
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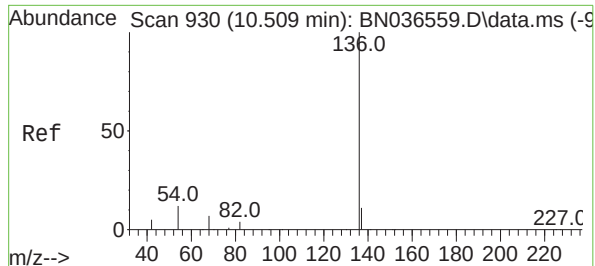
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.326 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

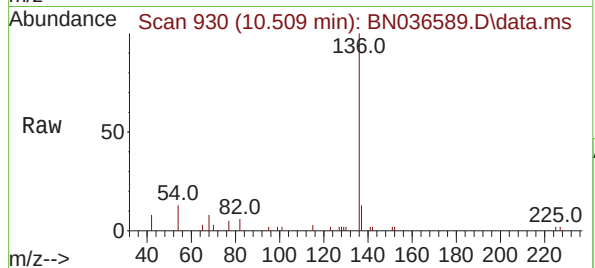
Tgt Ion: 93 Resp: 1905
Ion Ratio Lower Upper
93 100
63 85.9 67.7 101.5
95 31.6 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

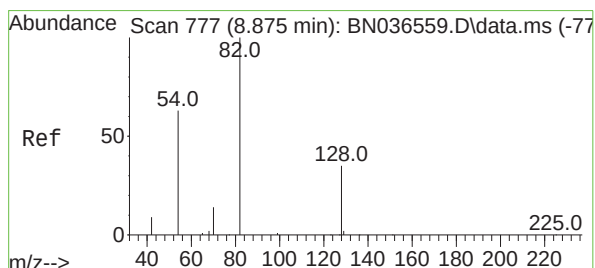
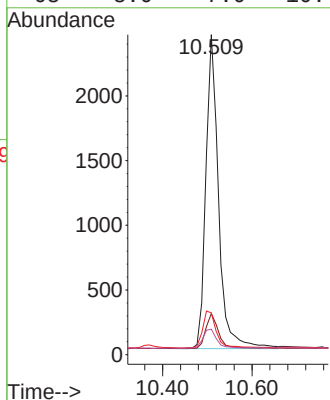
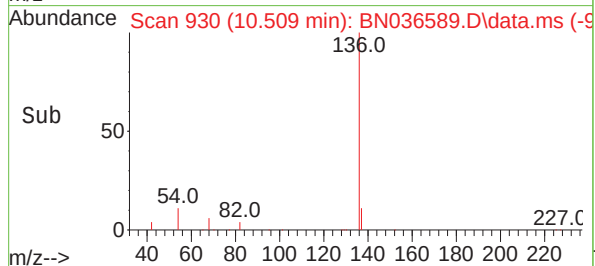
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 4774
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 13.1 11.5 17.3
68 8.0 7.0 10.4

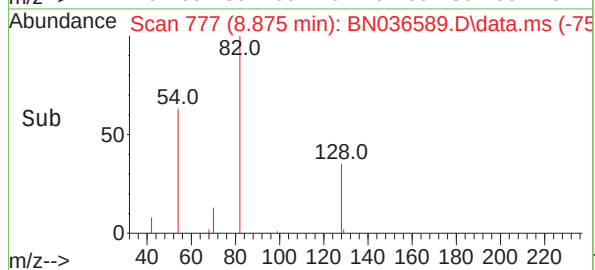
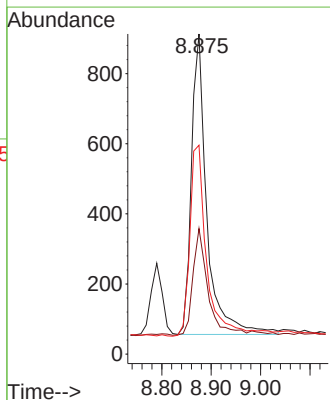
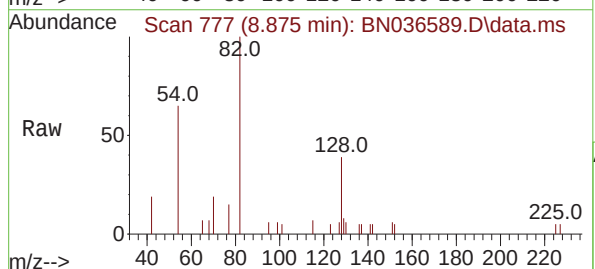
Manual Integrations
APPROVED

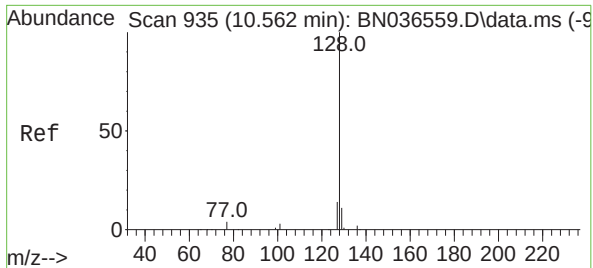
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion: 82 Resp: 1860
Ion Ratio Lower Upper
82 100
128 39.2 30.6 45.8
54 65.3 52.2 78.4





#9

Naphthalene

Concen: 0.388 ng

RT: 10.562 min Scan# 935

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

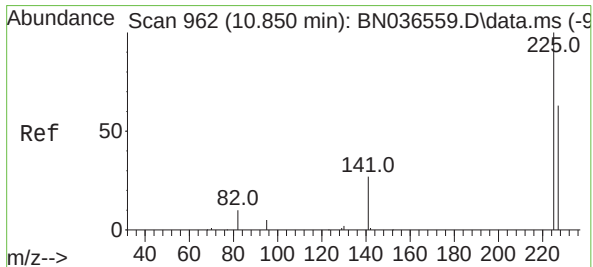
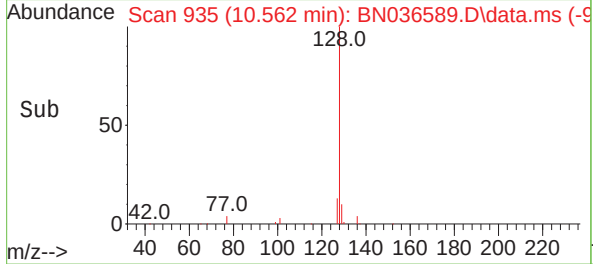
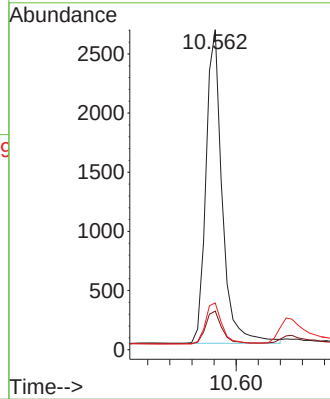
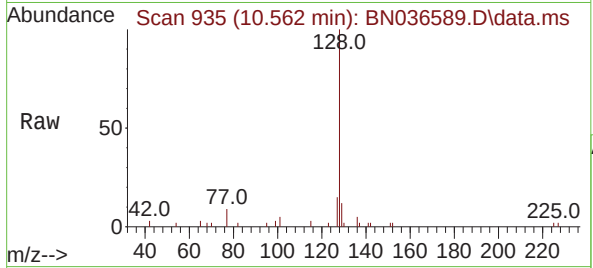
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	128	Resp:	544
Ion Ratio	Lower	Upper	
128	100		
129	12.1	9.8	14.6
127	14.6	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#10

Hexachlorobutadiene

Concen: 0.404 ng

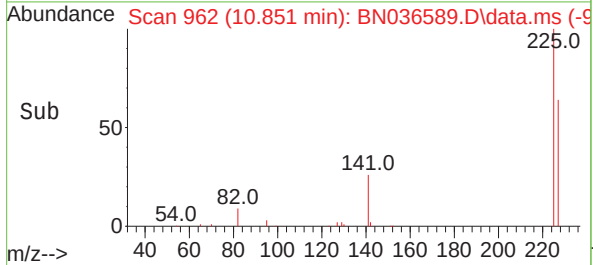
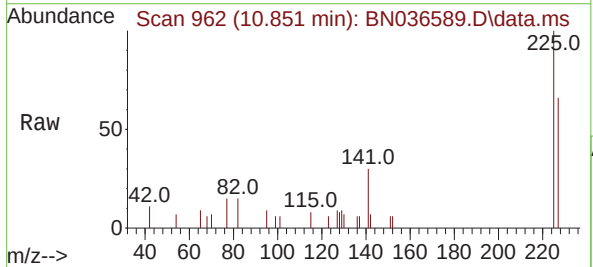
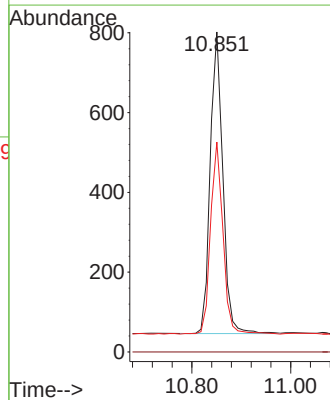
RT: 10.851 min Scan# 962

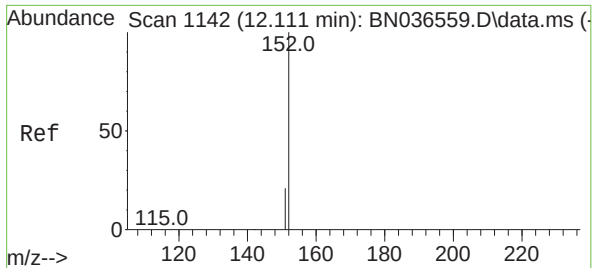
Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

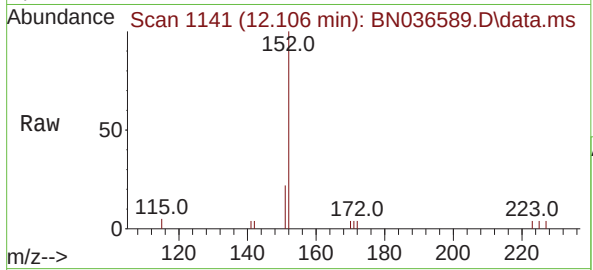
Tgt Ion:	225	Resp:	1336
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

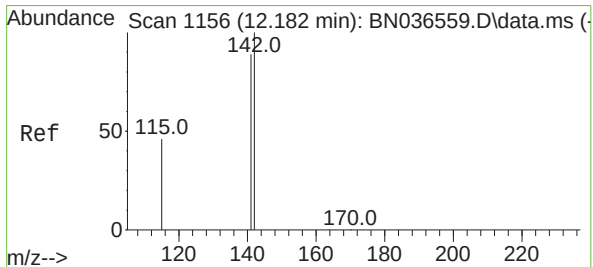
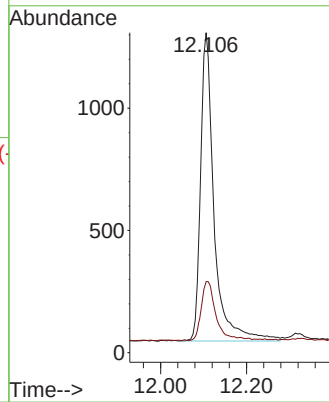
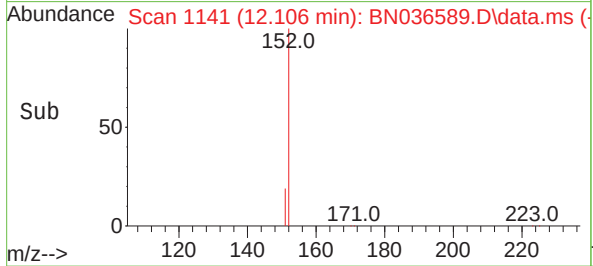
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 274
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6

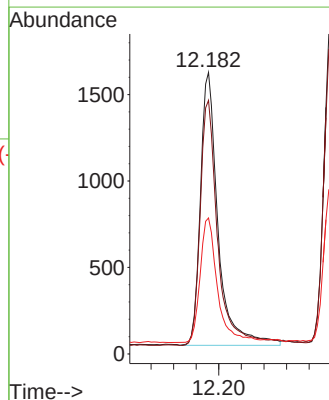
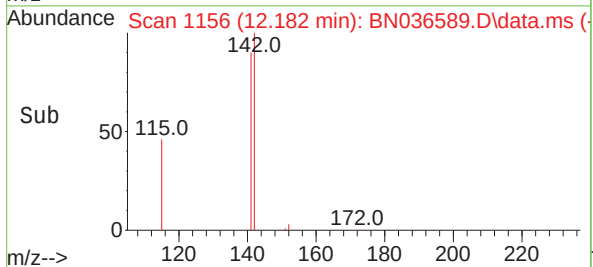
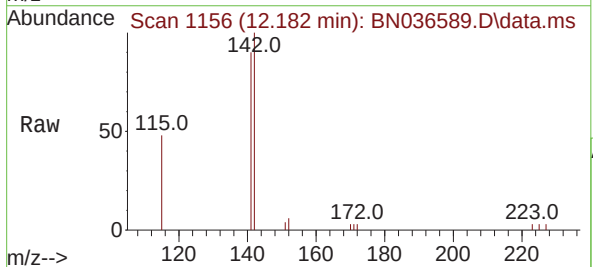
Manual Integrations
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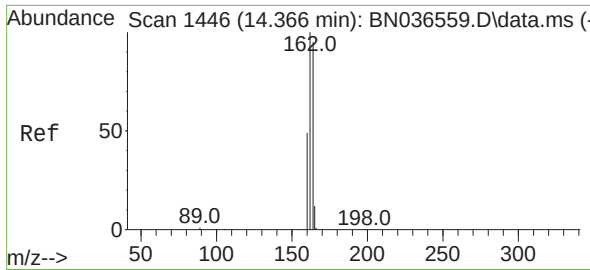
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

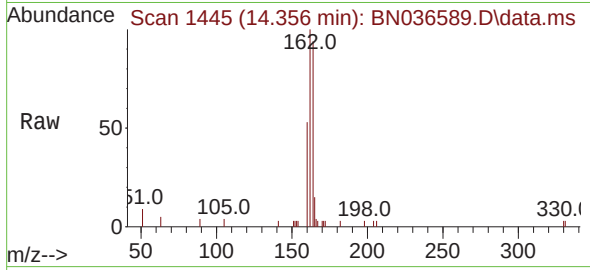
Tgt Ion:142 Resp: 3430
Ion Ratio Lower Upper
142 100
141 90.1 71.7 107.5
115 48.3 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

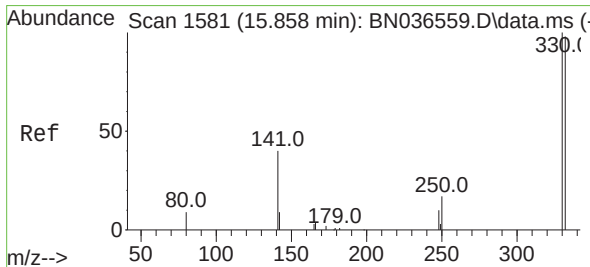
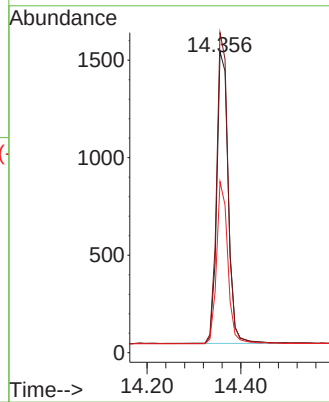
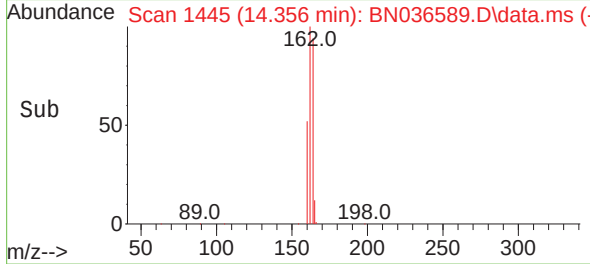
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:164 Resp: 254
Ion Ratio Lower Upper
164 100
162 106.4 84.2 126.2
160 56.8 42.2 63.2

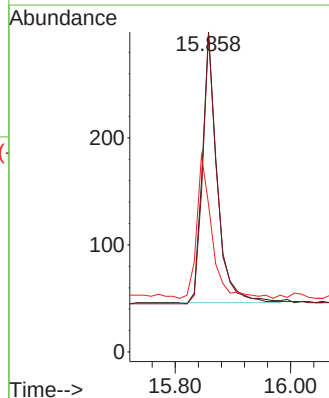
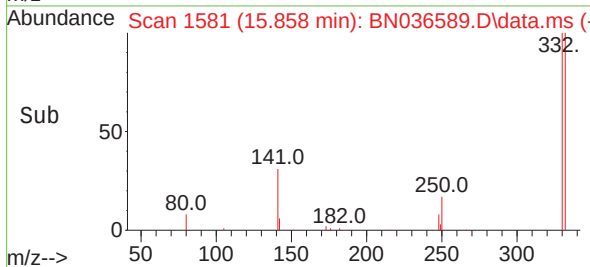
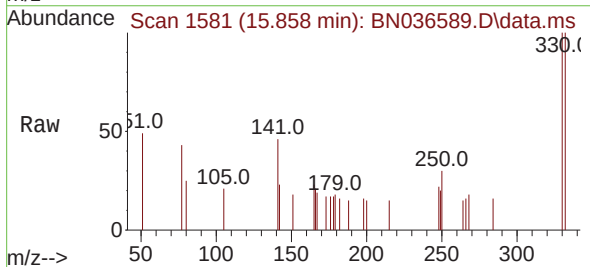
Manual Integrations
APPROVED

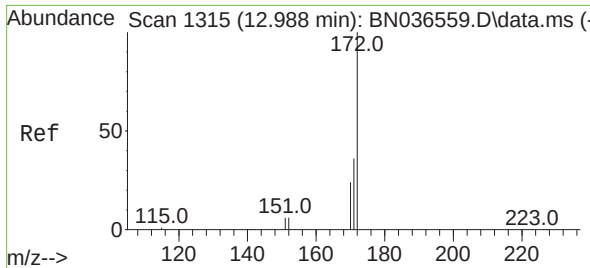
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

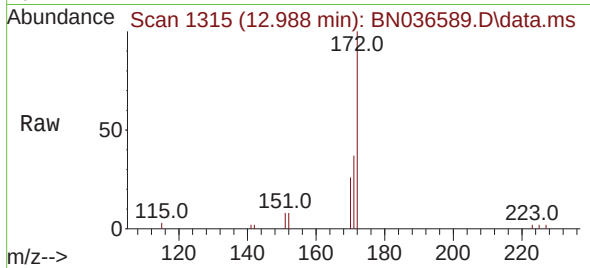
Tgt Ion:330 Resp: 450
Ion Ratio Lower Upper
330 100
332 98.7 75.2 112.8
141 54.2 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

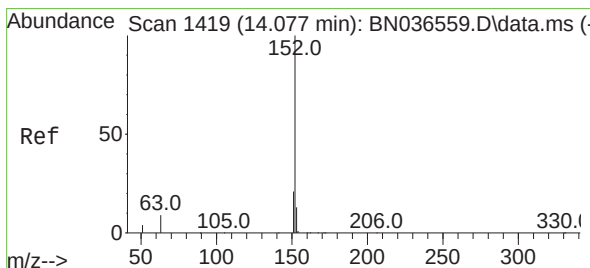
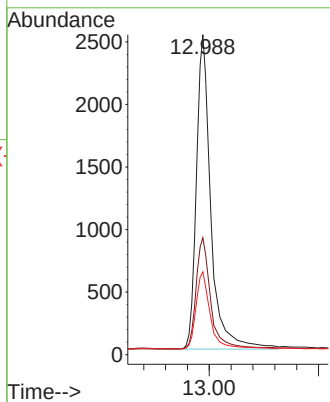
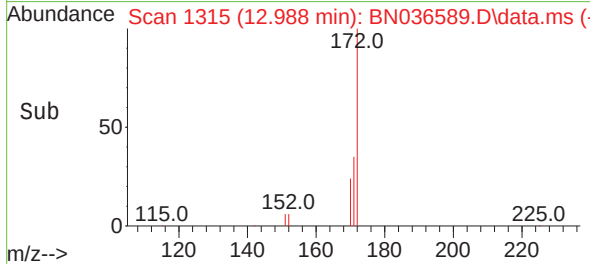
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:172 Resp: 6390
Ion Ratio Lower Upper
172 100
171 36.6 29.5 44.3
170 25.9 20.2 30.4

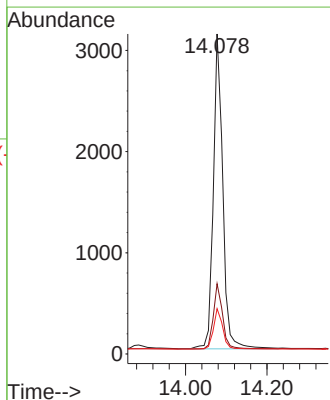
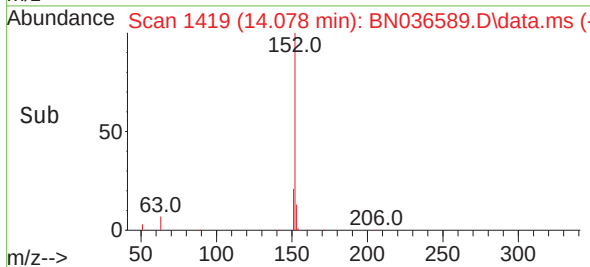
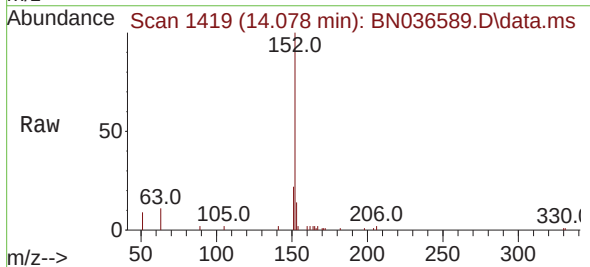
Manual Integrations
APPROVED

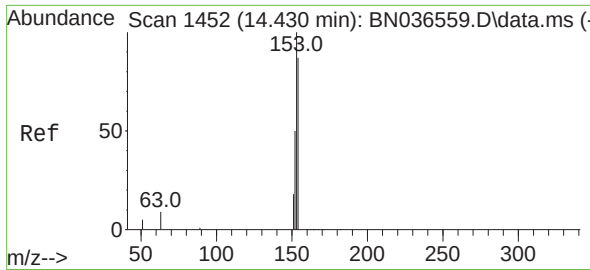
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#16
Acenaphthylene
Concen: 0.415 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

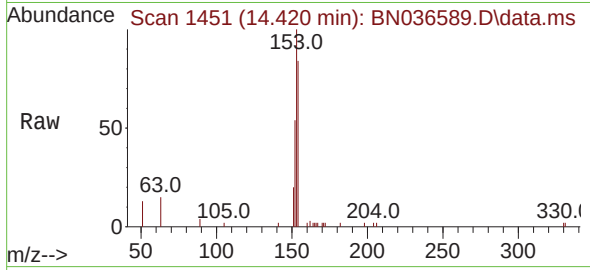
Tgt Ion:152 Resp: 4983
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.4
153 12.7 10.6 15.8





#17
Acenaphthene
Concen: 0.389 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

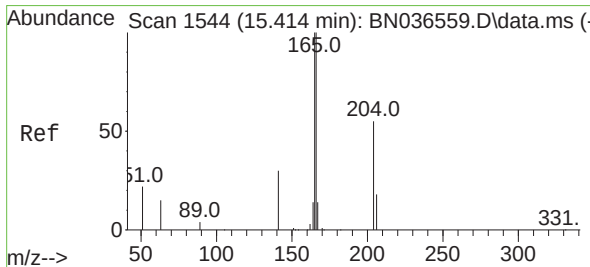
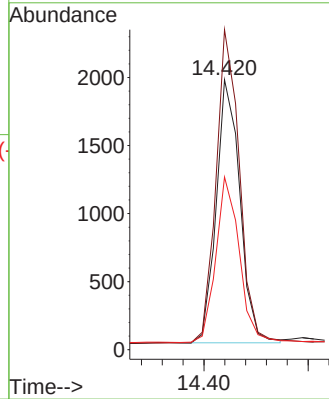
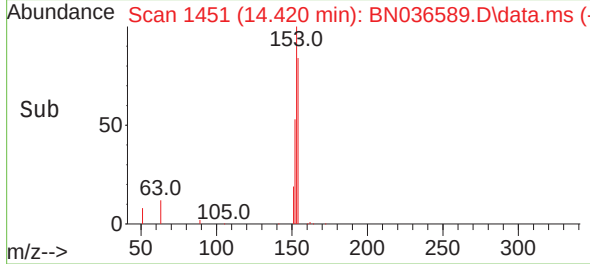
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 3052
Ion Ratio Lower Upper
154 100
153 118.9 94.1 141.1
152 63.0 49.8 74.6

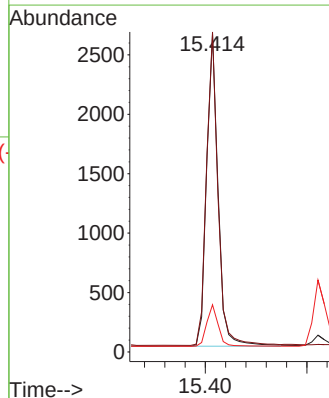
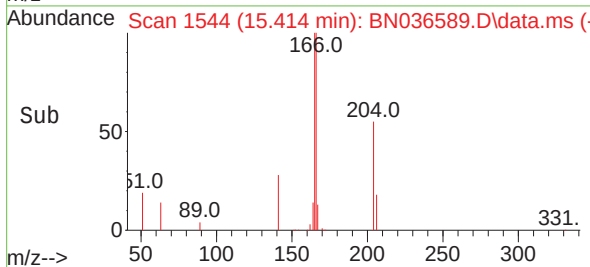
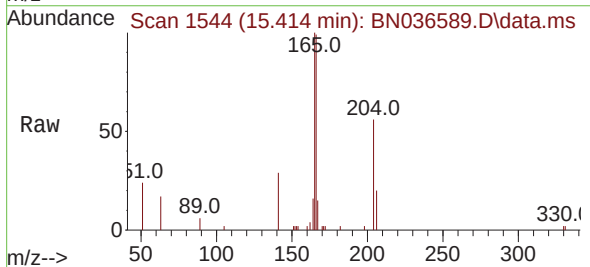
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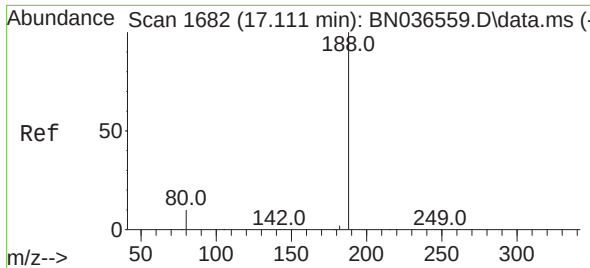
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#18
Fluorene
Concen: 0.400 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:166 Resp: 4246
Ion Ratio Lower Upper
166 100
165 100.0 79.8 119.8
167 13.3 10.6 15.8





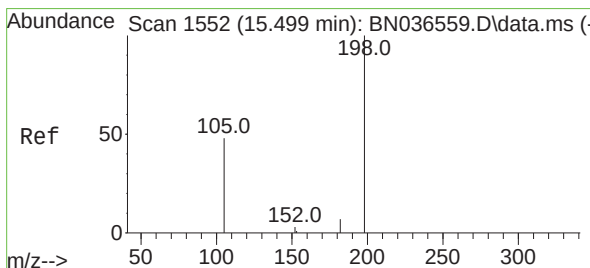
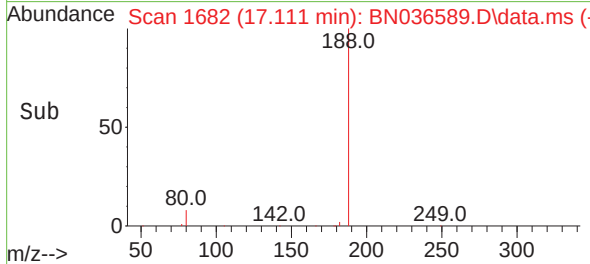
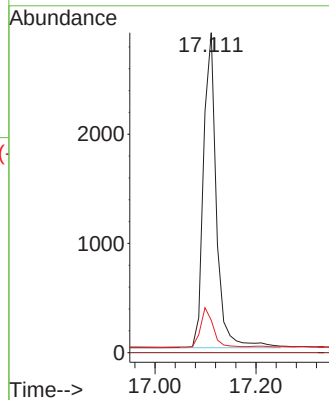
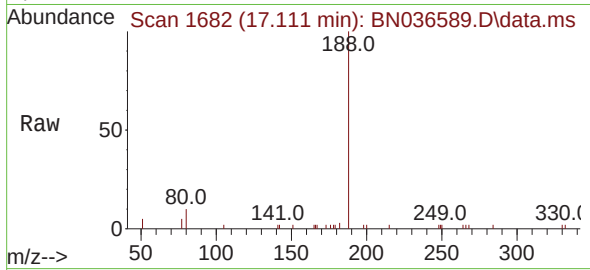
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 515
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 8.8 13.2

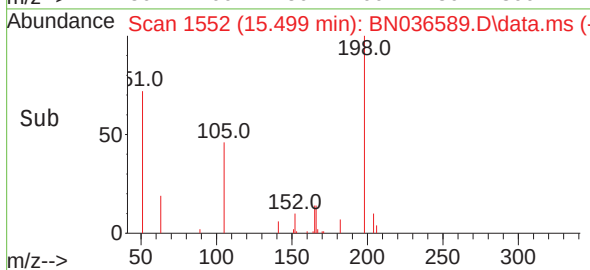
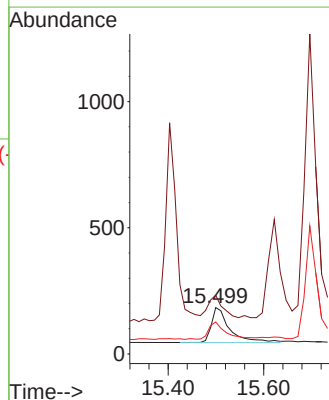
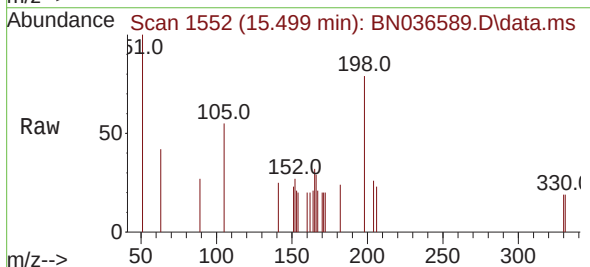
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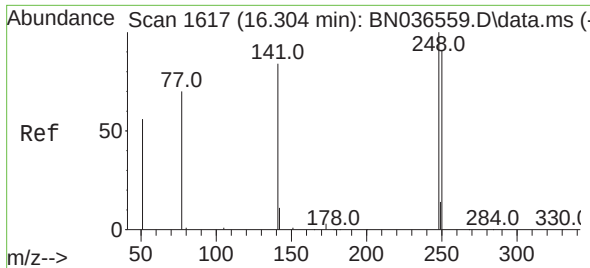
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.430 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

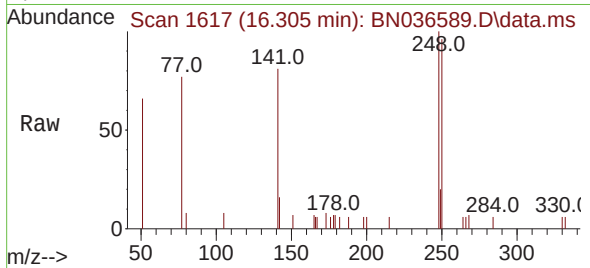
Tgt Ion:198 Resp: 375
Ion Ratio Lower Upper
198 100
51 126.6 107.9 161.9
105 69.0 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.406 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

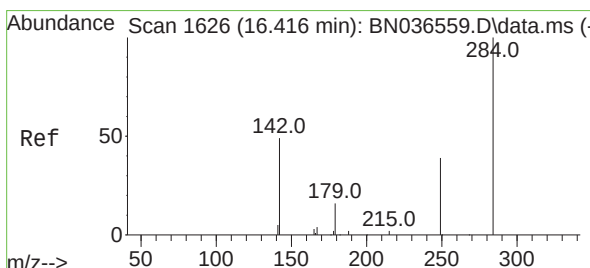
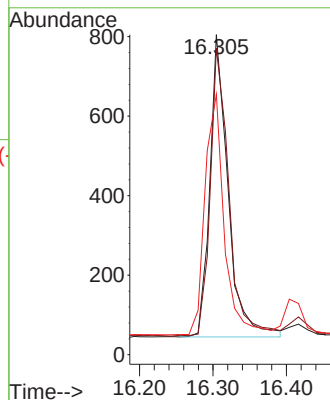
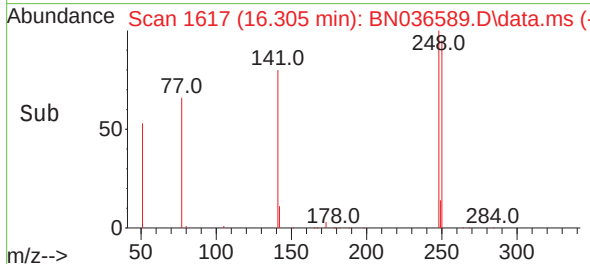
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 131
Ion Ratio Lower Upper
248 100
250 95.8 73.0 109.6
141 81.4 68.6 103.0

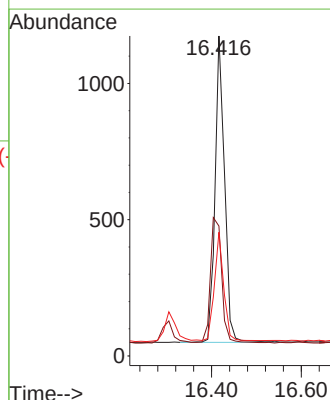
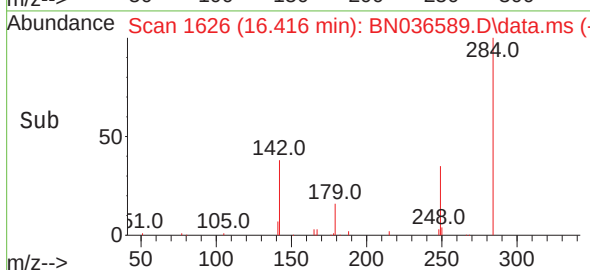
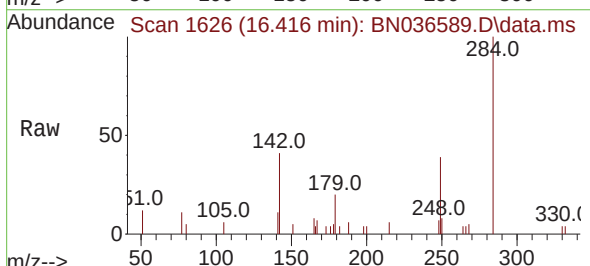
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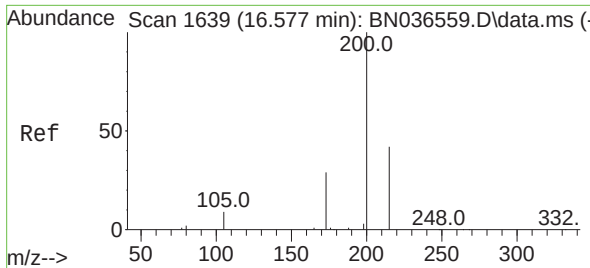
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:284 Resp: 1646
Ion Ratio Lower Upper
284 100
142 48.7 37.0 55.4
249 34.7 28.1 42.1





#23

Atrazine

Concen: 0.403 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036589.D

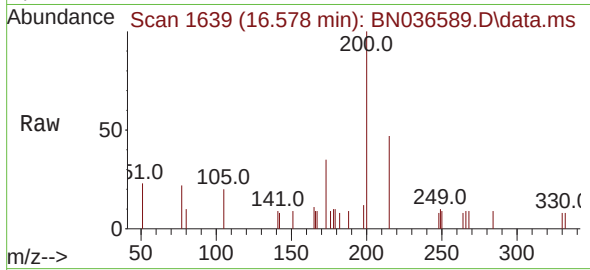
Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:200 Resp: 104

Ion Ratio Lower Upper

200 100

173 35.1 27.3 40.9

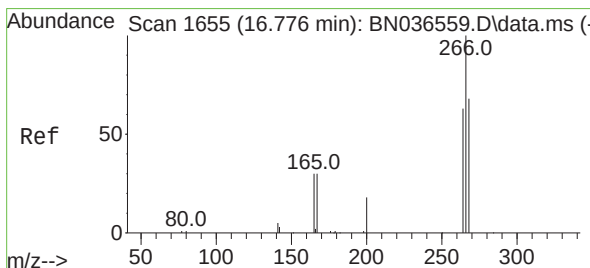
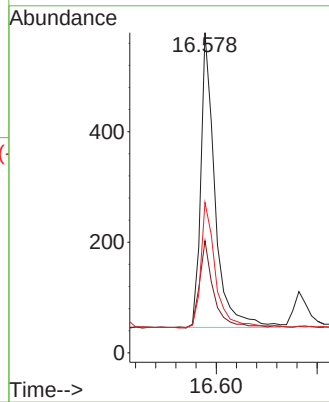
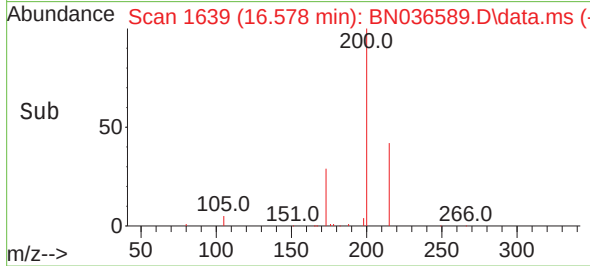
215 47.0 36.8 55.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/12/2025

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#24

Pentachlorophenol

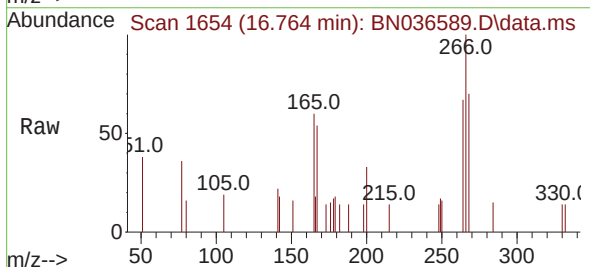
Concen: 0.372 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46



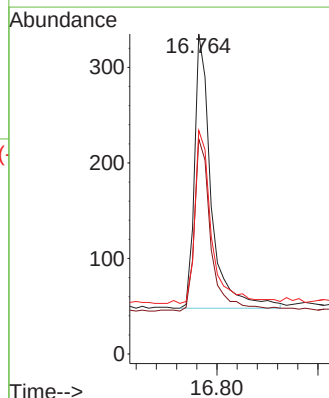
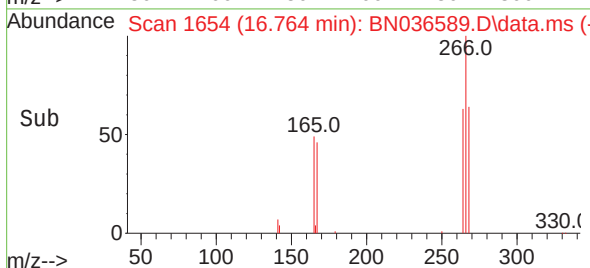
Tgt Ion:266 Resp: 661

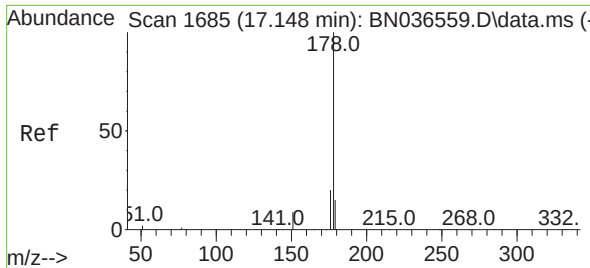
Ion Ratio Lower Upper

266 100

264 62.6 49.6 74.4

268 63.5 50.9 76.3





#25

Phenanthrene

Concen: 0.408 ng

RT: 17.149 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:178 Resp: 6304

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

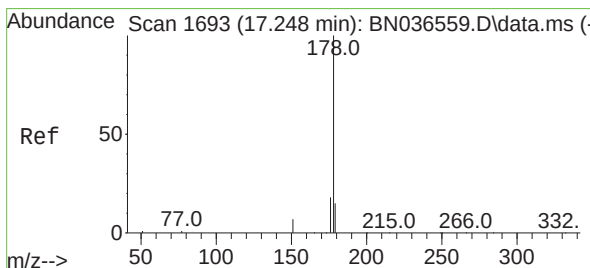
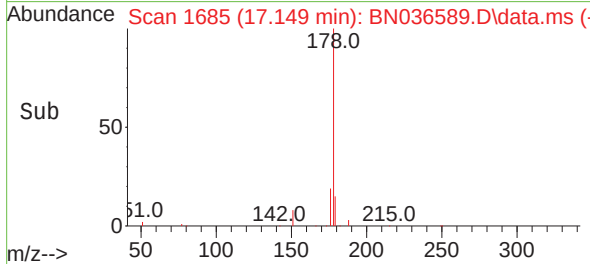
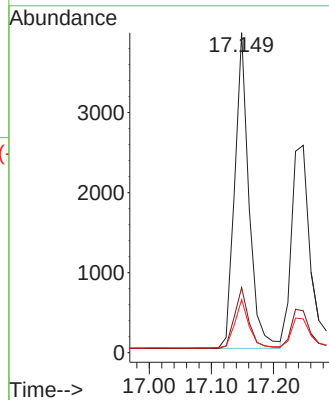
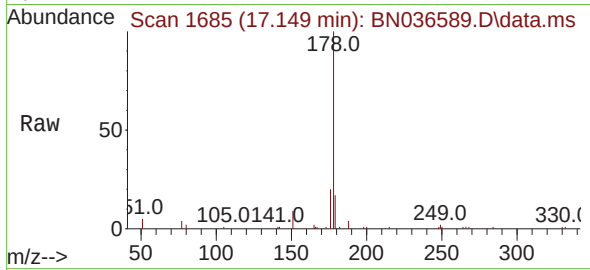
179 15.4 12.2 18.4

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Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



#26

Anthracene

Concen: 0.391 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

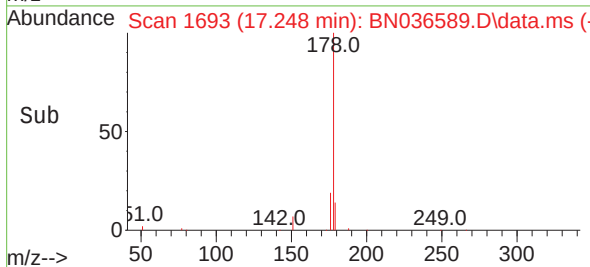
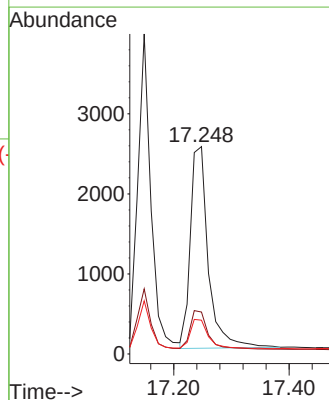
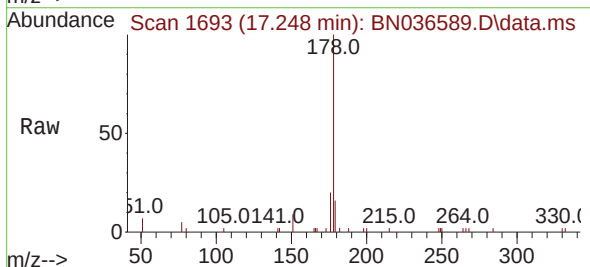
Tgt Ion:178 Resp: 5453

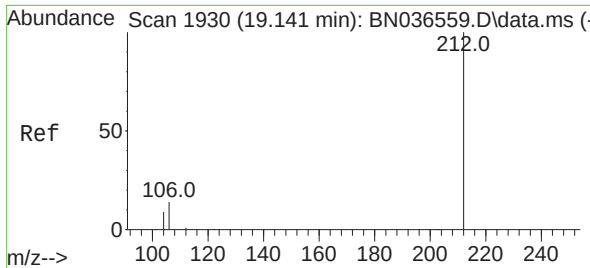
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:212 Resp: 5300

Ion Ratio Lower Upper

212 100

106 13.5 11.8 17.6

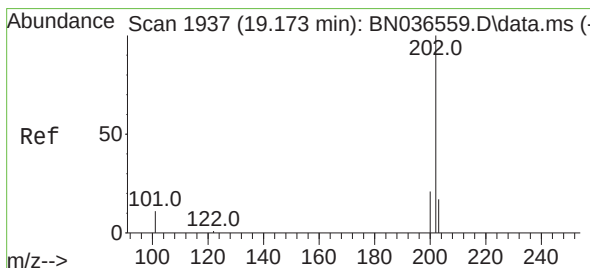
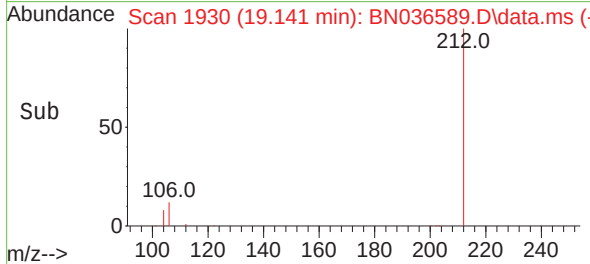
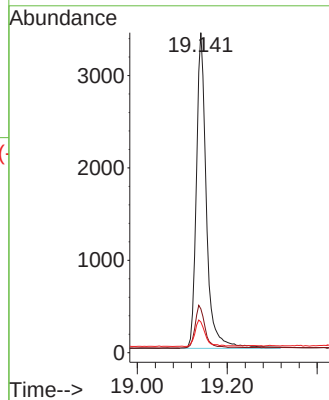
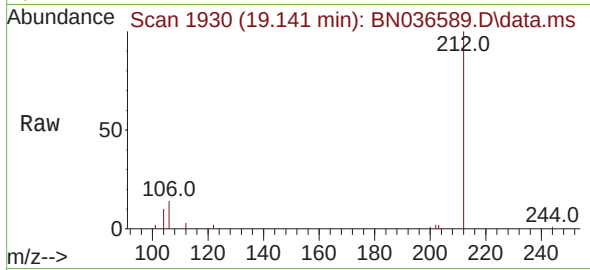
104 8.7 7.3 10.9

Manual Integrations

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Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



#28

Fluoranthene

Concen: 0.404 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

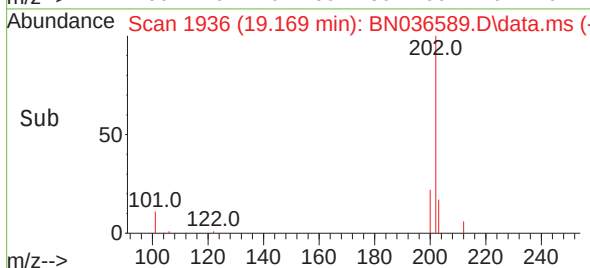
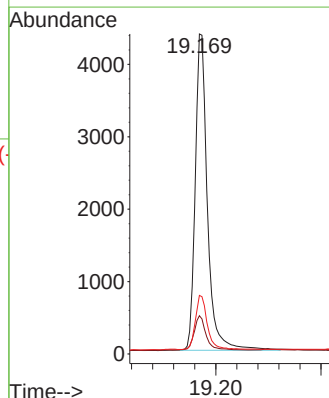
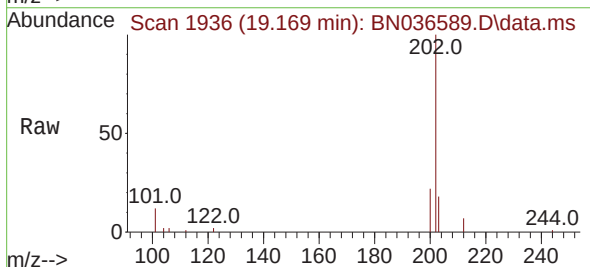
Tgt Ion:202 Resp: 7017

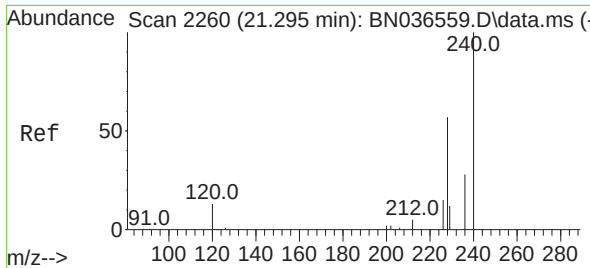
Ion Ratio Lower Upper

202 100

101 10.6 9.4 14.0

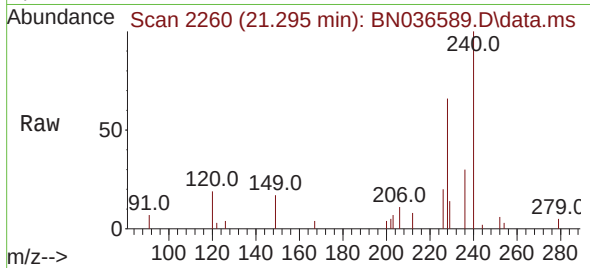
203 16.7 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

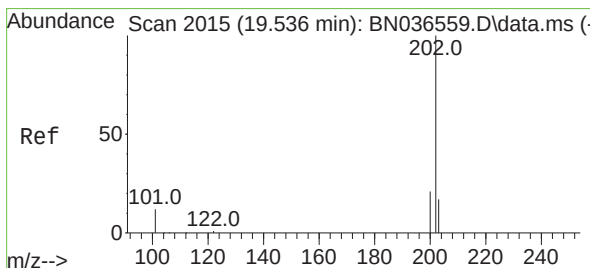
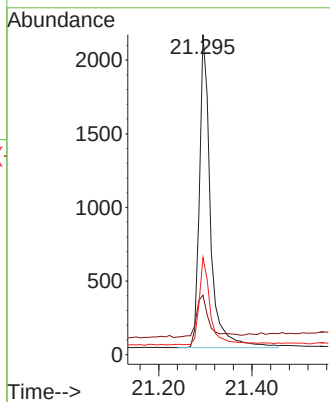
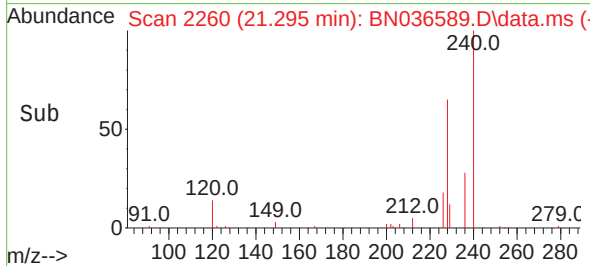
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:240 Resp: 3498
Ion Ratio Lower Upper
240 100
120 18.6 14.6 22.0
236 30.4 24.1 36.1

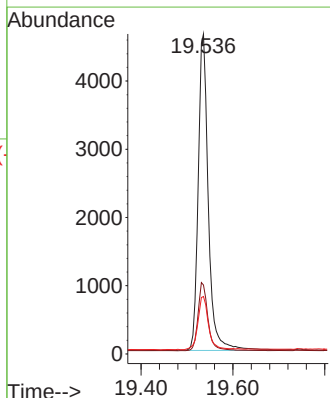
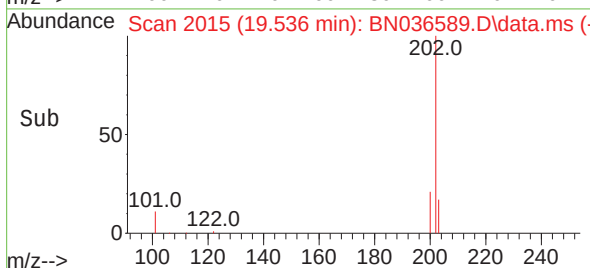
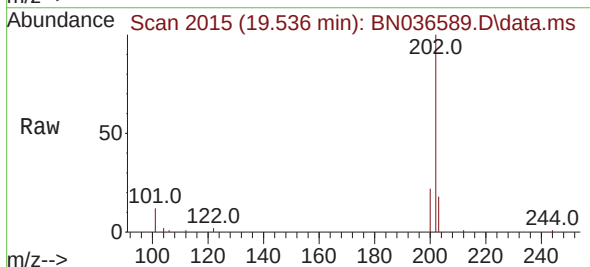
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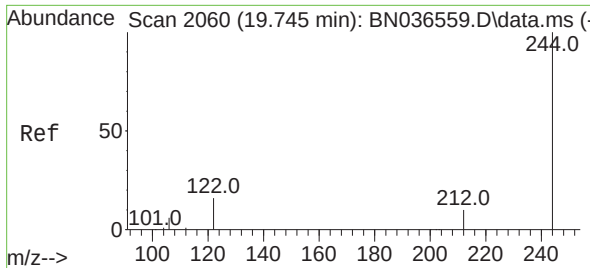
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#30
Pyrene
Concen: 0.414 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:202 Resp: 7087
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.4 14.1 21.1





#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

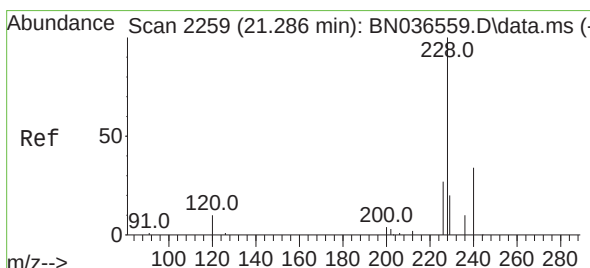
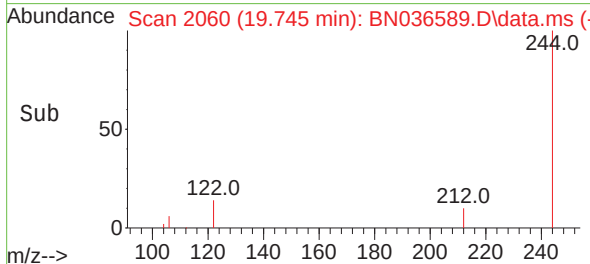
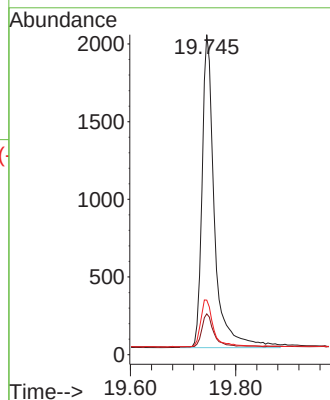
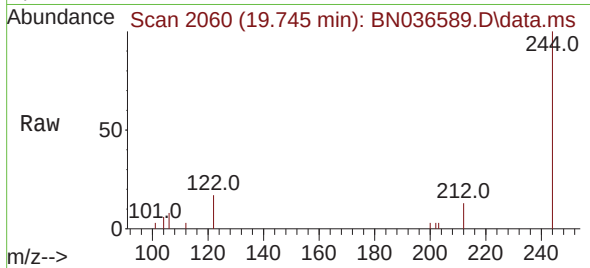
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.6	14.4
122	17.0	13.9	20.9

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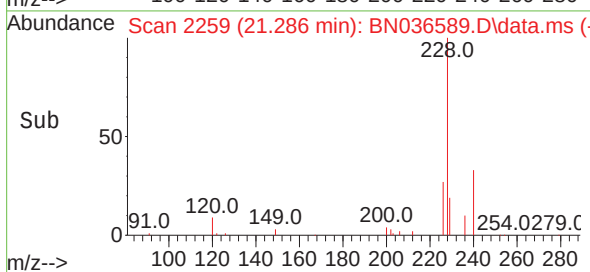
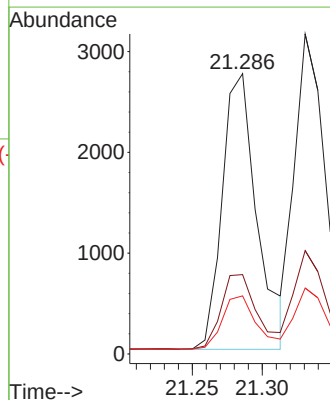
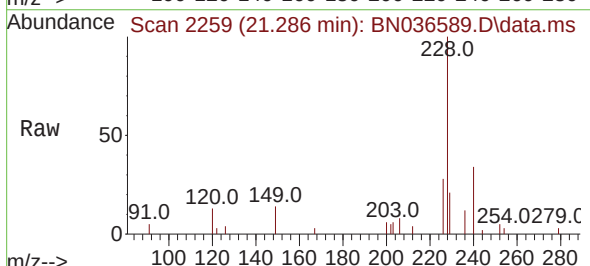
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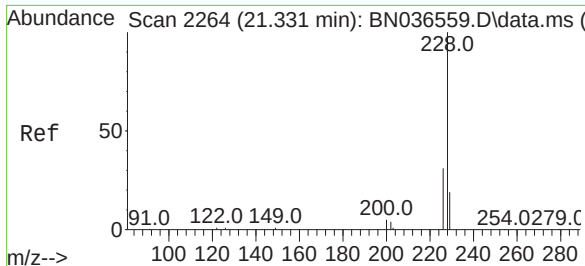
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.7	16.6	25.0





#33

Chrysene

Concen: 0.409 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

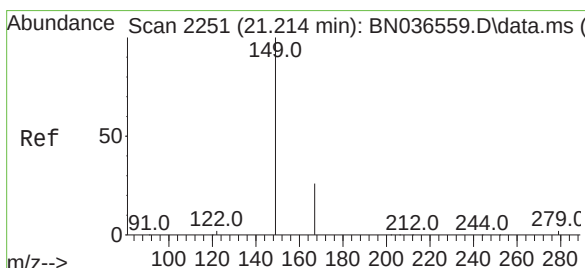
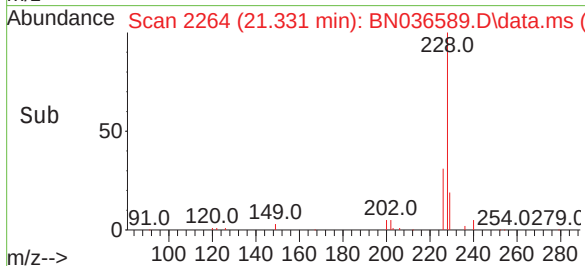
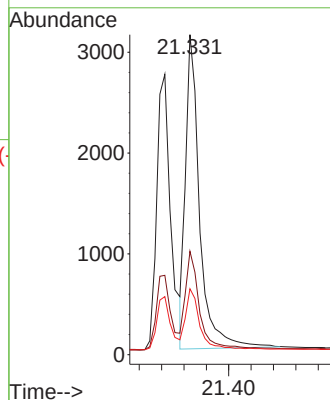
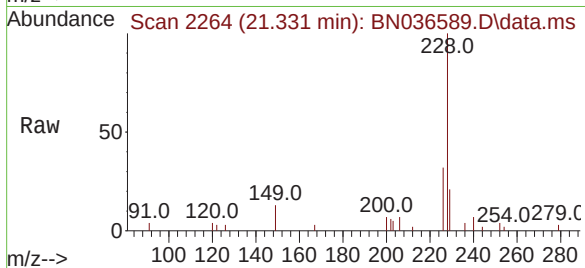
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	228	Resp:	543
Ion Ratio	Lower	Upper	
228	100		
226	32.3	25.3	37.9
229	20.6	15.8	23.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.445 ng

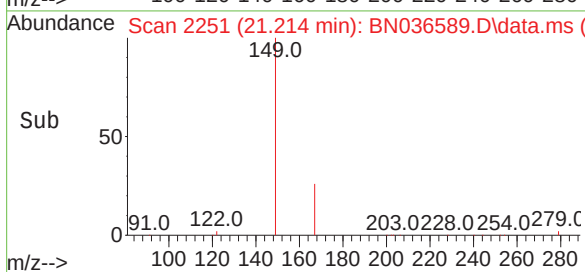
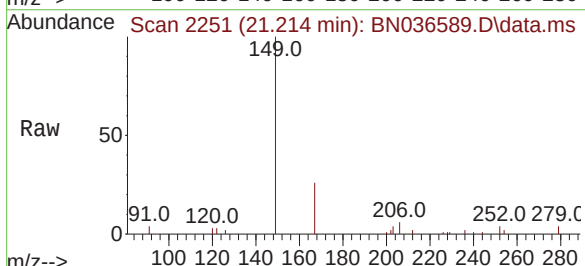
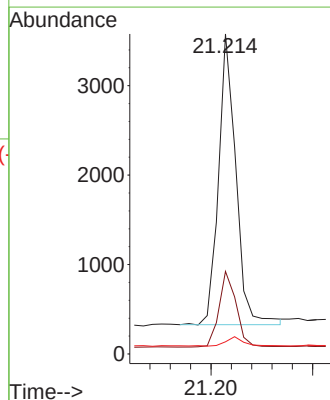
RT: 21.214 min Scan# 2251

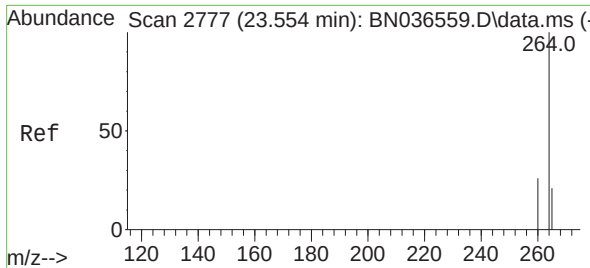
Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Tgt Ion:	149	Resp:	3858
Ion Ratio	Lower	Upper	
149	100		
167	26.0	20.7	31.1
279	3.2	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036589.D

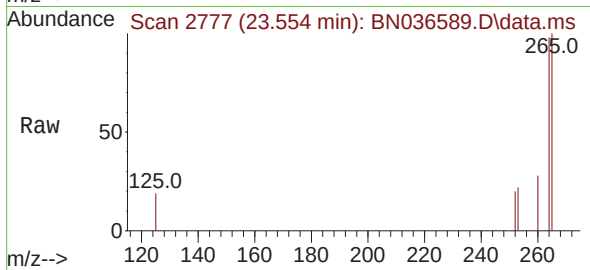
Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 2998

Ion Ratio Lower Upper

264 100

260 28.5 22.6 33.8

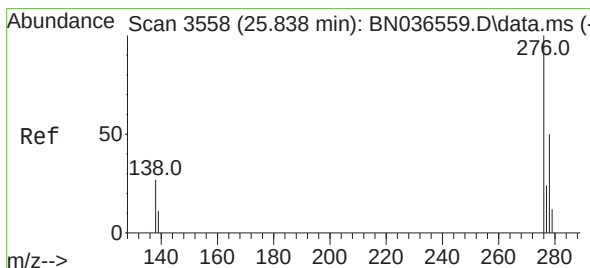
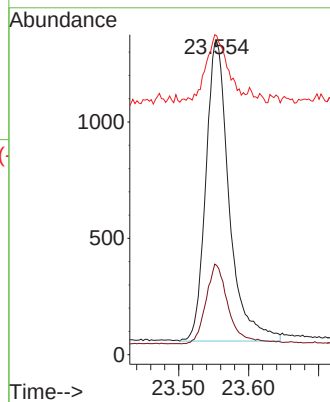
265 101.7 88.1 132.1

Manual Integrations

APPROVED

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Supervised By :Jagrut Upadhyay 03/12/2025



#36

Indeno(1,2,3-cd)pyrene

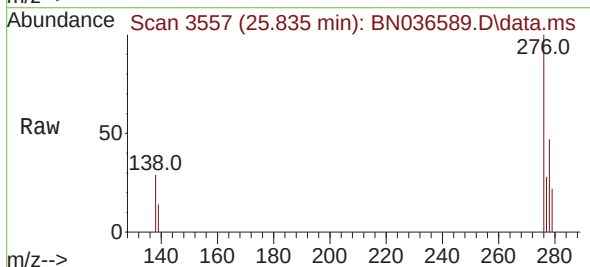
Concen: 0.396 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46



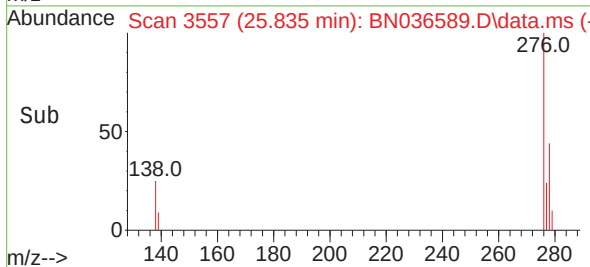
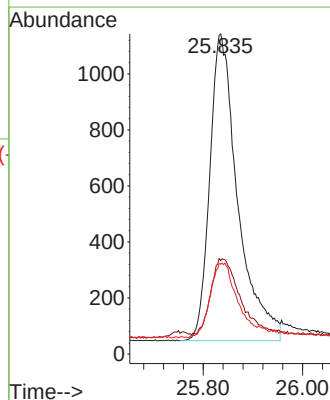
Tgt Ion:276 Resp: 4281

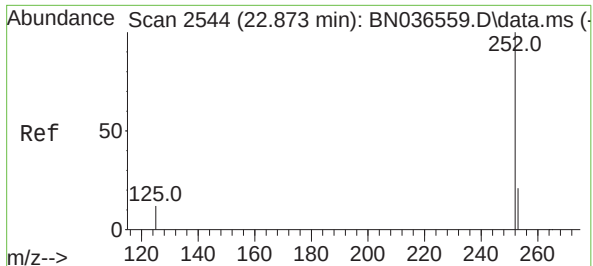
Ion Ratio Lower Upper

276 100

138 25.6 23.4 35.2

277 23.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.421 ng m

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

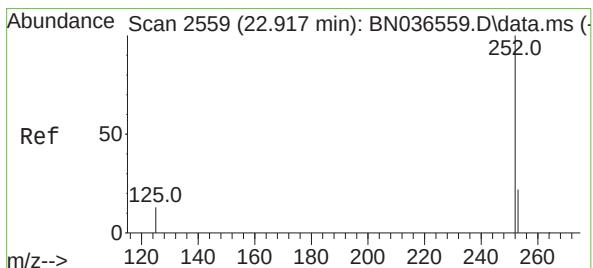
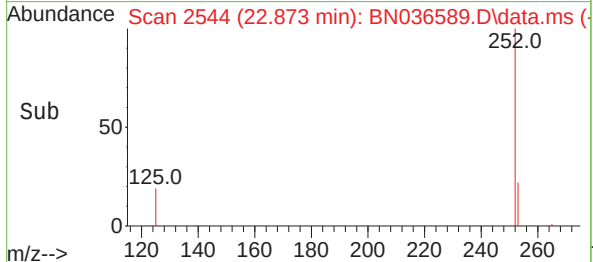
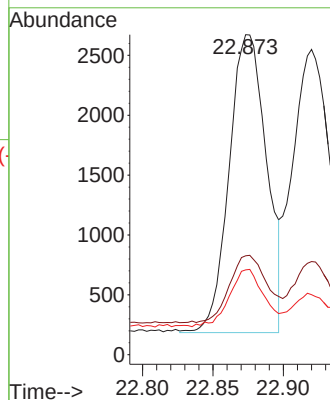
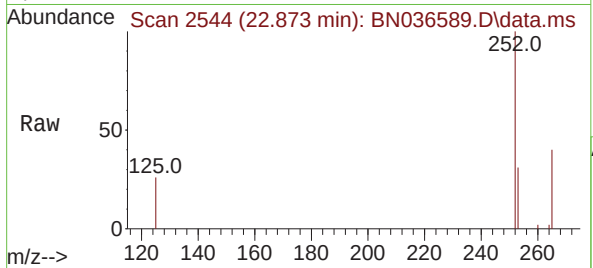
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	459
Ion Ratio	Lower	Upper	
252	100		
253	30.9	23.9	35.9
125	26.5	17.4	26.2

Manual Integrations

APPROVED

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Supervised By :Jagrut Upadhyay 03/12/2025



#38

Benzo(k)fluoranthene

Concen: 0.405 ng m

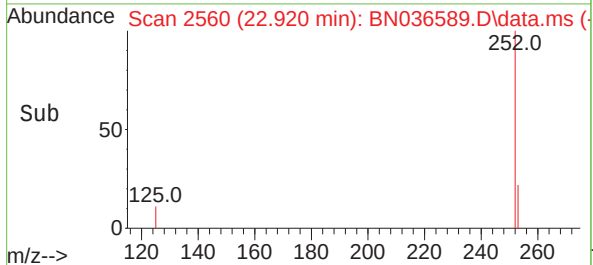
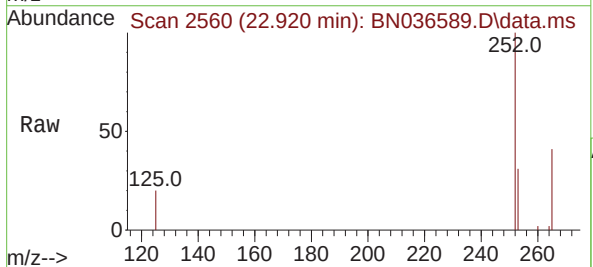
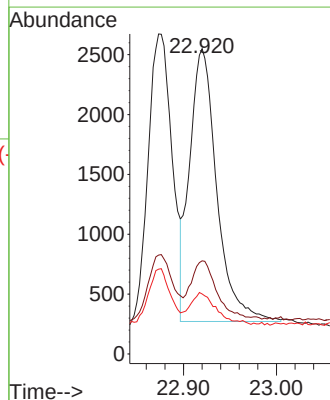
RT: 22.920 min Scan# 2560

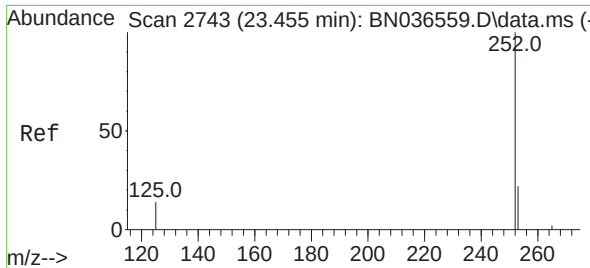
Delta R.T. 0.003 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Tgt Ion:	252	Resp:	4634
Ion Ratio	Lower	Upper	
252	100		
253	30.5	24.6	36.8
125	19.7	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.428 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

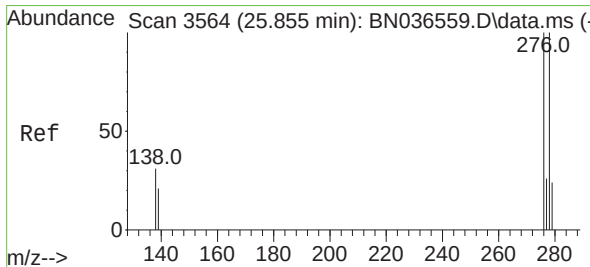
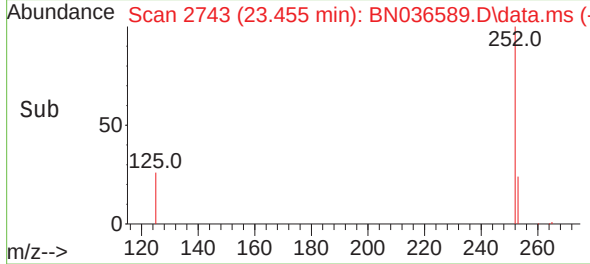
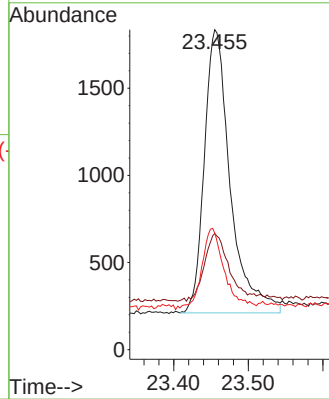
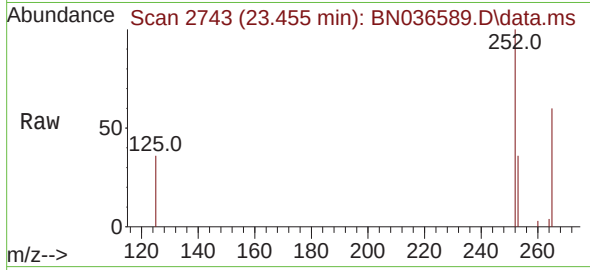
SSTDCCC0.4EC

Tgt Ion:252	Resp:	392
Ion Ratio	Lower	Upper
252	100	
253	36.3	27.8 41.8
125	36.4	22.7 34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.395 ng

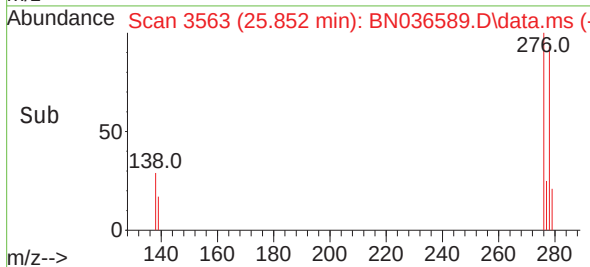
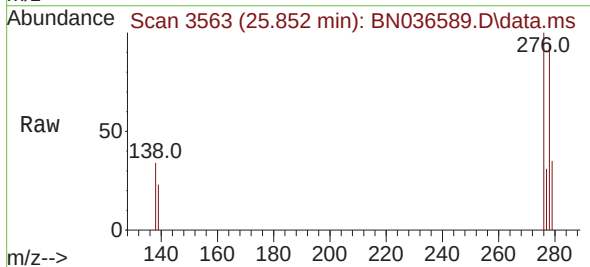
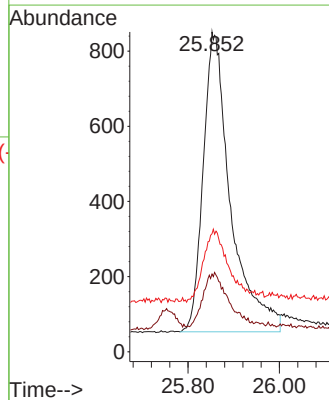
RT: 25.852 min Scan# 3563

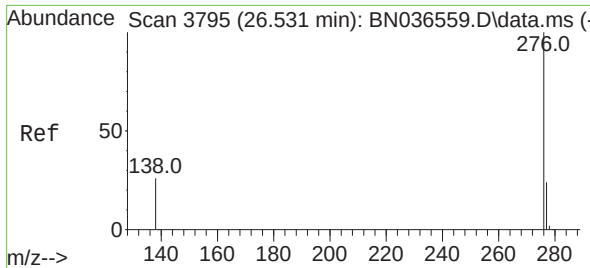
Delta R.T. -0.003 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Tgt Ion:278	Resp:	3325
Ion Ratio	Lower	Upper
278	100	
139	24.3	20.8 31.2
279	36.9	28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 26.528 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036589.D

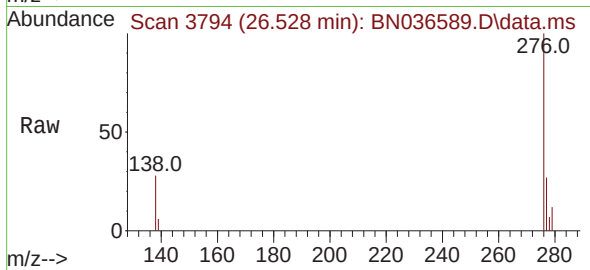
Acq: 11 Mar 2025 19:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 276 Resp: 396

Ion Ratio Lower Upper

276 100

277 26.8 22.2 33.4

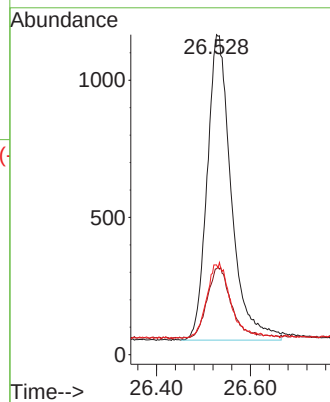
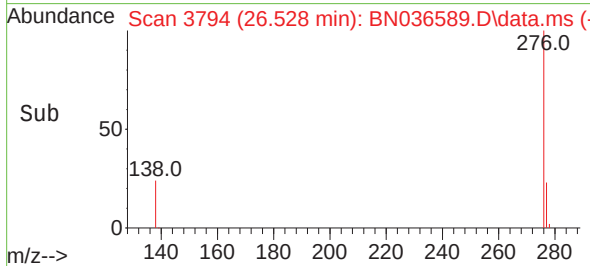
138 28.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
 Data File : BN036589.D
 Acq On : 11 Mar 2025 19:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 12 01:09:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	89	0.00
2	1,4-Dioxane	0.444	0.457	-2.9	82	0.00
3	n-Nitrosodimethylamine	0.898	0.897	0.1	85	0.00
4 S	2-Fluorophenol	0.932	0.807	13.4	73	0.00
5 S	Phenol-d6	1.152	0.937	18.7	74	0.00
6	bis(2-Chloroethyl)ether	1.190	0.970	18.5	73	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
8 S	Nitrobenzene-d5	0.435	0.390	10.3	88	0.00
9	Naphthalene	1.177	1.140	3.1	89	0.00
10	Hexachlorobutadiene	0.277	0.280	-1.1	89	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.575	3.4	89	0.00
12	2-Methylnaphthalene	0.749	0.718	4.1	88	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	84	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.177	2.7	79	0.00
15 S	2-Fluorobiphenyl	2.327	2.515	-8.1	88	0.00
16	Acenaphthylene	1.888	1.959	-3.8	85	0.00
17	Acenaphthene	1.236	1.200	2.9	79	-0.01
18	Fluorene	1.672	1.670	0.1	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.073	15.1	81	0.00
21	4-Bromophenyl-phenylether	0.251	0.254	-1.2	80	0.00
22	Hexachlorobenzene	0.303	0.319	-5.3	82	0.00
23	Atrazine	0.201	0.202	-0.5	82	0.00
24	Pentachlorophenol	0.138	0.128	7.2	81	-0.01
25	Phenanthrene	1.200	1.223	-1.9	81	0.00
26	Anthracene	1.083	1.058	2.3	79	0.00
27 SURR	Fluoranthene-d10	1.025	1.029	-0.4	79	0.00
28	Fluoranthene	1.348	1.361	-1.0	80	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	85	0.00
30	Pyrene	1.956	2.026	-3.6	81	0.00
31 S	Terphenyl-d14	0.958	0.946	1.3	78	0.00
32	Benzo(a)anthracene	1.391	1.350	2.9	80	0.00
33	Chrysene	1.520	1.553	-2.2	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.103	-11.4	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.428	1.1	78	0.00
37	Benzo(b)fluoranthene	1.456	1.533	-5.3	84	0.00
38	Benzo(k)fluoranthene	1.527	1.546	-1.2	81	0.00
39 C	Benzo(a)pyrene	1.226	1.311	-6.9	85	0.00
40	Dibenzo(a,h)anthracene	1.124	1.109	1.3	81	0.00
41	Benzo(g,h,i)perylene	1.286	1.322	-2.8	81	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036589.D
Acq On : 11 Mar 2025 19:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 12 01:09:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	89	0.00
2	1,4-Dioxane	0.400	0.412	-3.0	82	0.00
3	n-Nitrosodimethylamine	0.400	0.400	0.0	85	0.00
4 S	2-Fluorophenol	0.400	0.346	13.5	73	0.00
5 S	Phenol-d6	0.400	0.325	18.8	74	0.00
6	bis(2-Chloroethyl)ether	0.400	0.326	18.5	73	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	94	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	88	0.00
9	Naphthalene	0.400	0.388	3.0	89	0.00
10	Hexachlorobutadiene	0.400	0.404	-1.0	89	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	89	0.00
12	2-Methylnaphthalene	0.400	0.384	4.0	88	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	84	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.390	2.5	79	0.00
15 S	2-Fluorobiphenyl	0.400	0.432	-8.0	88	0.00
16	Acenaphthylene	0.400	0.415	-3.7	85	0.00
17	Acenaphthene	0.400	0.389	2.8	79	-0.01
18	Fluorene	0.400	0.400	0.0	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	86	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.430	-7.5	81	0.00
21	4-Bromophenyl-phenylether	0.400	0.406	-1.5	80	0.00
22	Hexachlorobenzene	0.400	0.422	-5.5	82	0.00
23	Atrazine	0.400	0.403	-0.8	82	0.00
24	Pentachlorophenol	0.400	0.372	7.0	81	-0.01
25	Phenanthrene	0.400	0.408	-2.0	81	0.00
26	Anthracene	0.400	0.391	2.3	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.402	-0.5	79	0.00
28	Fluoranthene	0.400	0.404	-1.0	80	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	85	0.00
30	Pyrene	0.400	0.414	-3.5	81	0.00
31 S	Terphenyl-d14	0.400	0.395	1.3	78	0.00
32	Benzo(a)anthracene	0.400	0.388	3.0	80	0.00
33	Chrysene	0.400	0.409	-2.2	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.445	-11.2	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	85	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.396	1.0	78	0.00
37	Benzo(b)fluoranthene	0.400	0.421	-5.2	84	0.00
38	Benzo(k)fluoranthene	0.400	0.405	-1.3	81	0.00
39 C	Benzo(a)pyrene	0.400	0.428	-7.0	85	0.00
40	Dibenzo(a,h)anthracene	0.400	0.395	1.3	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.411	-2.7	81	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.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/12/2025 09:14

Lab File ID: BN036591.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.598		0.5	20.0
Fluoranthene-d10	1.025	1.078		5.2	20.0
2-Fluorophenol	0.932	0.936		0.4	20.0
Phenol-d6	1.152	1.110		-3.6	20.0
Nitrobenzene-d5	0.435	0.424		-2.5	20.0
2-Fluorobiphenyl	2.327	2.354		1.2	20.0
2,4,6-Tribromophenol	0.182	0.187		2.7	20.0
Terphenyl-d14	0.958	0.957		-0.1	20.0
1,4-Dioxane	0.444	0.524		18.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
 Data File : BN036591.D
 Acq On : 12 Mar 2025 09:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 12 10:40:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

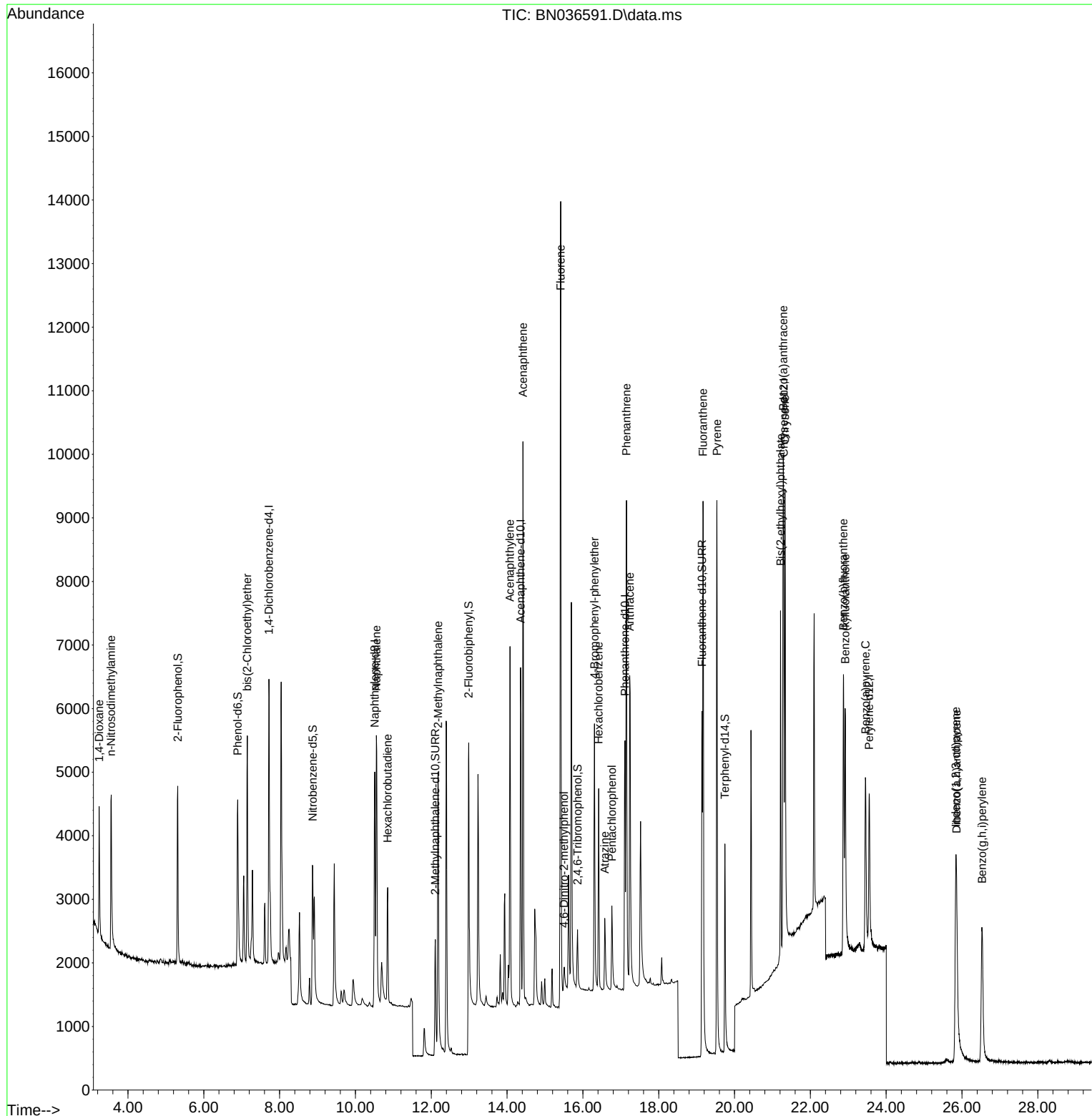
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2221	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5304	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3177	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	6400	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4453	0.400	ng	0.00
35) Perylene-d12	23.551	264	3635	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2078	0.401	ng	0.00
5) Phenol-d6	6.894	99	2465	0.386	ng	0.00
8) Nitrobenzene-d5	8.875	82	2247	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3172	0.402	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	595	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7478	0.405	ng	0.00
27) Fluoranthene-d10	19.141	212	6898	0.421	ng	0.00
31) Terphenyl-d14	19.745	244	4263	0.400	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	1164	0.472	ng	97
3) n-Nitrosodimethylamine	3.550	42	2139	0.429	ng	100
6) bis(2-Chloroethyl)ether	7.147	93	2672	0.404	ng	100
9) Naphthalene	10.551	128	6414	0.411	ng	99
10) Hexachlorobutadiene	10.850	225	1566	0.426	ng	# 98
12) 2-Methylnaphthalene	12.182	142	4039	0.407	ng	98
16) Acenaphthylene	14.078	152	6255	0.417	ng	100
17) Acenaphthene	14.420	154	4082	0.416	ng	100
18) Fluorene	15.414	166	5540	0.417	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	428	0.408	ng	96
21) 4-Bromophenyl-phenylether	16.304	248	1685	0.420	ng	94
22) Hexachlorobenzene	16.416	284	2127	0.439	ng	98
23) Atrazine	16.578	200	1329	0.413	ng	99
24) Pentachlorophenol	16.764	266	863	0.391	ng	100
25) Phenanthrene	17.148	178	8241	0.429	ng	99
26) Anthracene	17.235	178	7257	0.419	ng	99
28) Fluoranthene	19.169	202	9164	0.425	ng	100
30) Pyrene	19.536	202	9108	0.418	ng	99
32) Benzo(a)anthracene	21.286	228	6555	0.423	ng	100
33) Chrysene	21.331	228	7174	0.424	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	5004	0.454	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	5387	0.411	ng	97
37) Benzo(b)fluoranthene	22.873	252	5696	0.431	ng	98
38) Benzo(k)fluoranthene	22.920	252	6136	0.442	ng	97
39) Benzo(a)pyrene	23.455	252	4804	0.431	ng	96
40) Dibenzo(a,h)anthracene	25.858	278	4039	0.395	ng	98
41) Benzo(g,h,i)perylene	26.534	276	4958	0.424	ng	96

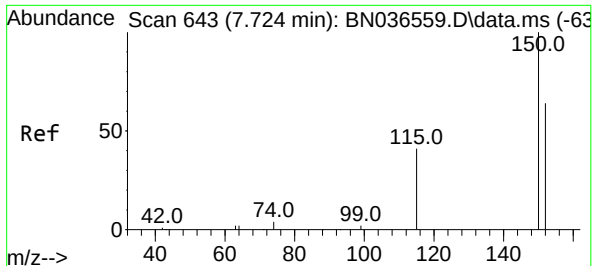
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036591.D
Acq On : 12 Mar 2025 09:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 12 10:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

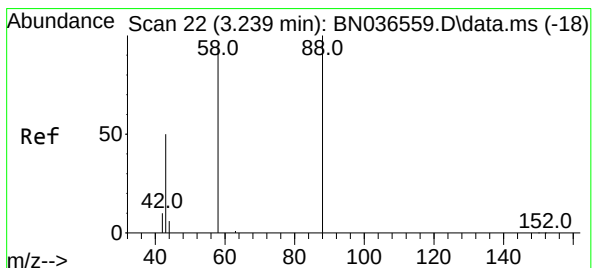
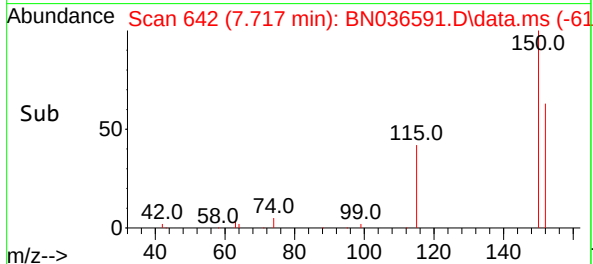
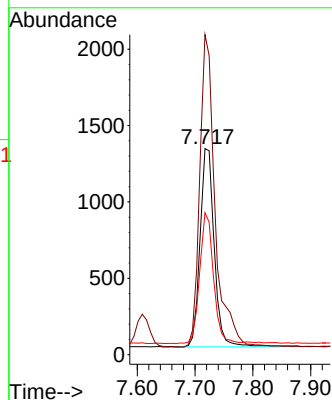
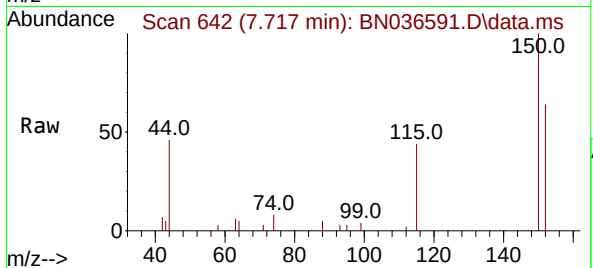




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

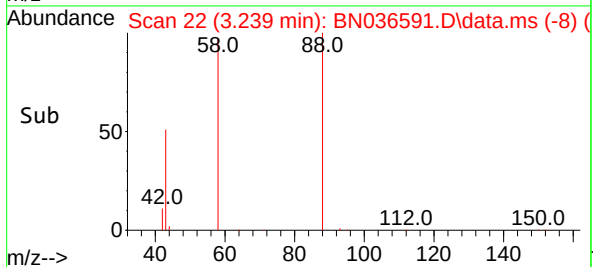
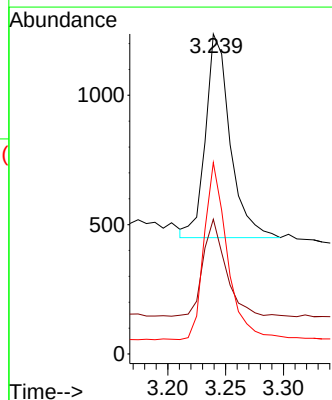
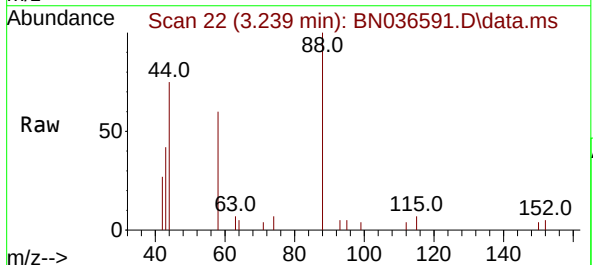
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

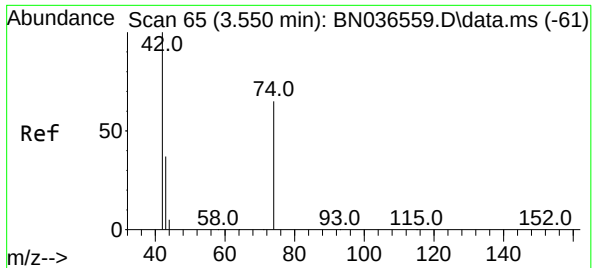
Tgt Ion:152 Resp: 2221
Ion Ratio Lower Upper
152 100
150 155.3 123.7 185.5
115 68.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.472 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion: 88 Resp: 1164
Ion Ratio Lower Upper
88 100
43 43.6 37.8 56.8
58 83.0 67.4 101.2

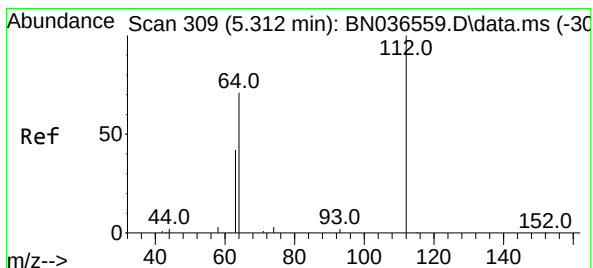
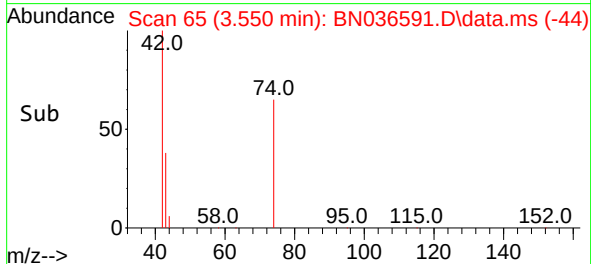
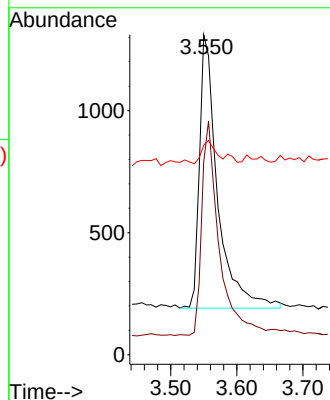
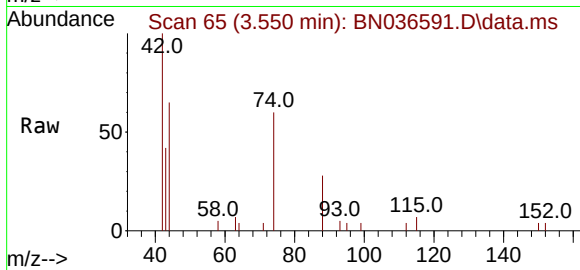




#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

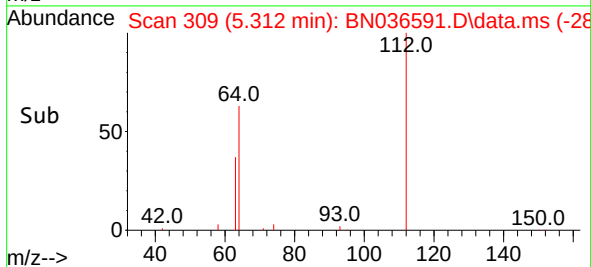
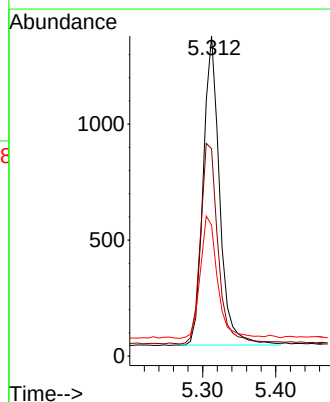
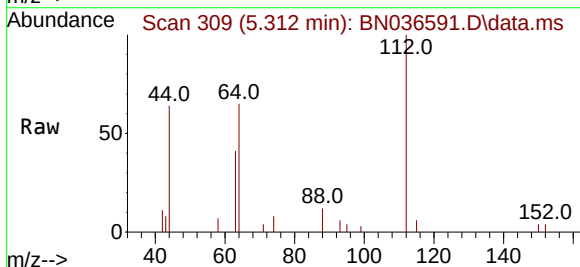
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ClientSampleId :
SSTDCCC0.4

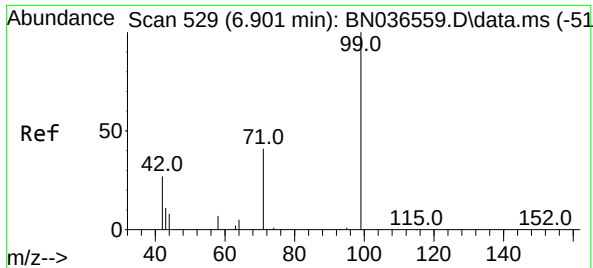
Tgt Ion: 42 Resp: 2139
Ion Ratio Lower Upper
42 100
74 75.8 60.6 90.8
44 6.5 6.3 9.5



#4
2-Fluorophenol
Concen: 0.401 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion: 112 Resp: 2078
Ion Ratio Lower Upper
112 100
64 70.0 53.1 79.7
63 41.7 31.8 47.8

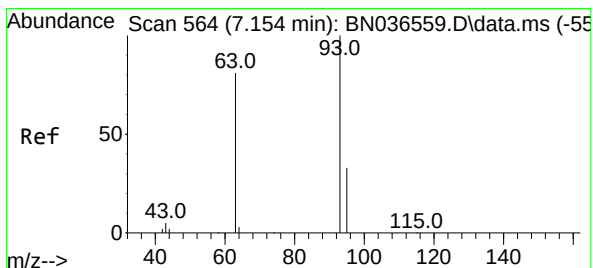
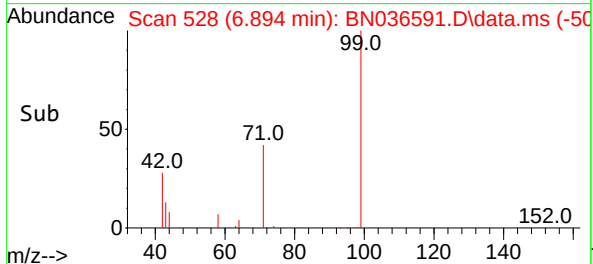
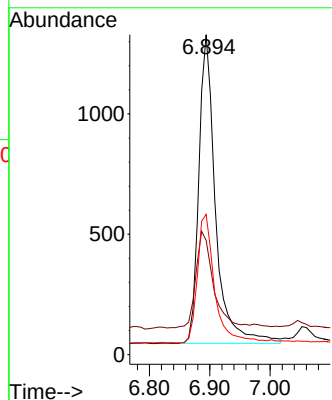
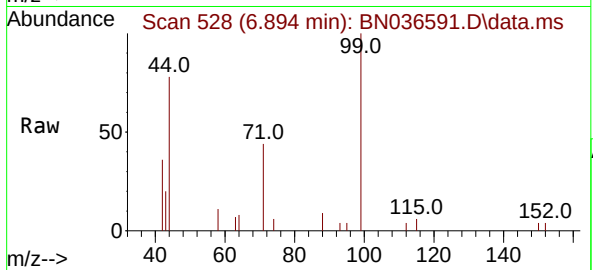




#5
Phenol-d6
Concen: 0.386 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

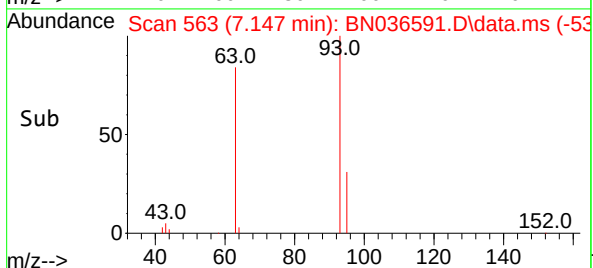
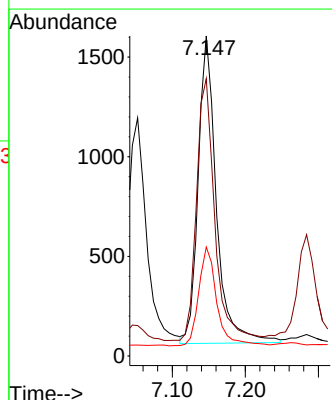
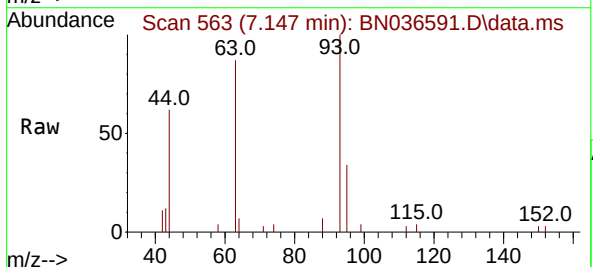
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

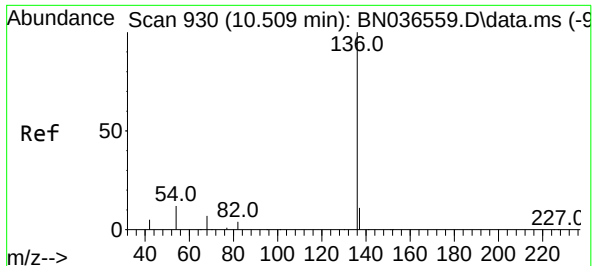
Tgt Ion: 99 Resp: 2465
Ion Ratio Lower Upper
99 100
42 32.4 26.5 39.7
71 42.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion: 93 Resp: 2672
Ion Ratio Lower Upper
93 100
63 85.2 67.7 101.5
95 31.9 25.6 38.4

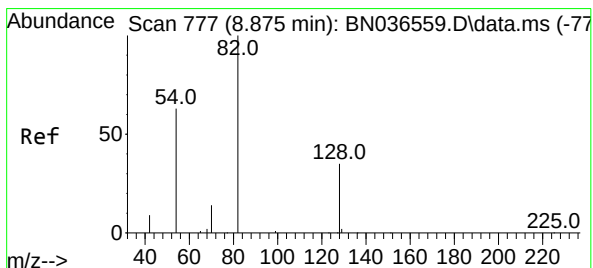
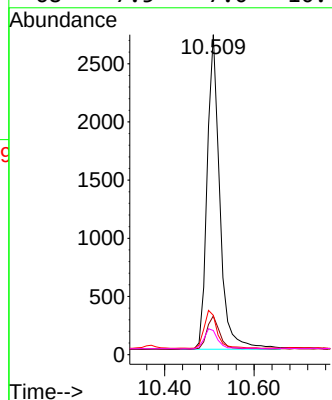
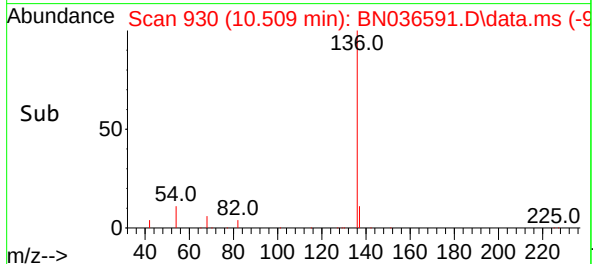
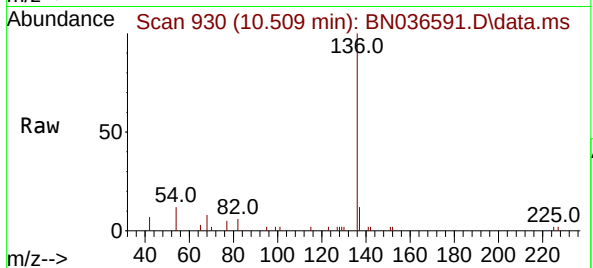




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

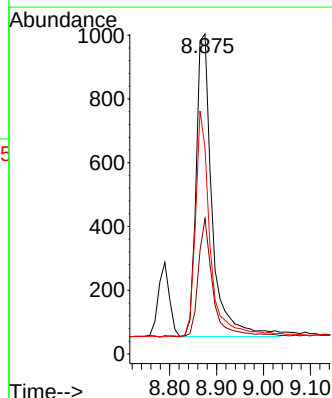
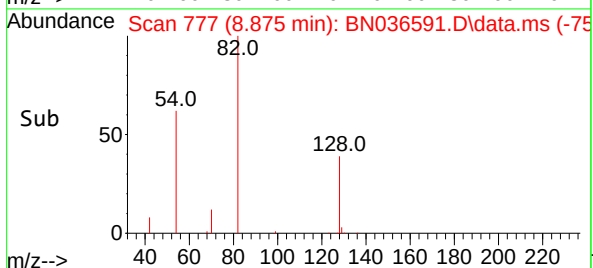
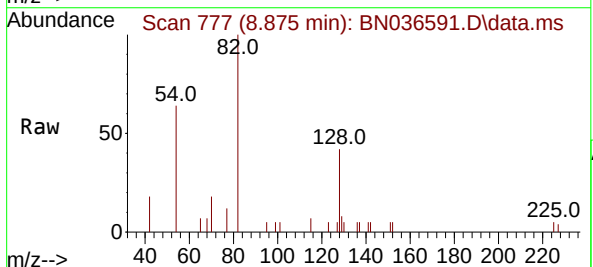
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

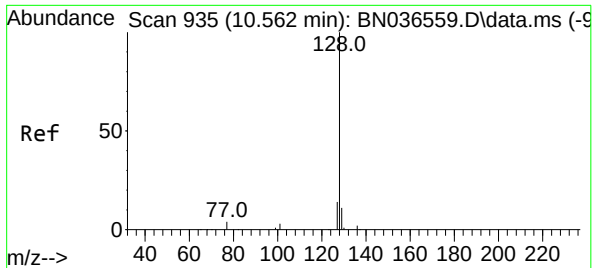
Tgt Ion:	136	Resp:	5304
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	12.3	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:	82	Resp:	2247
Ion	Ratio	Lower	Upper
82	100		
128	42.3	30.6	45.8
54	64.4	52.2	78.4

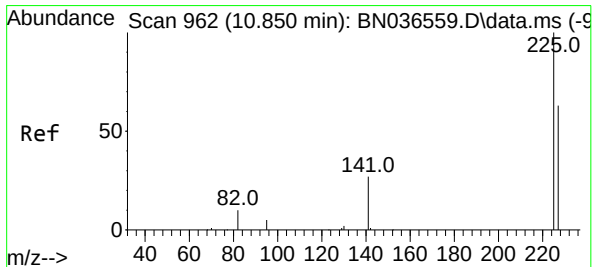
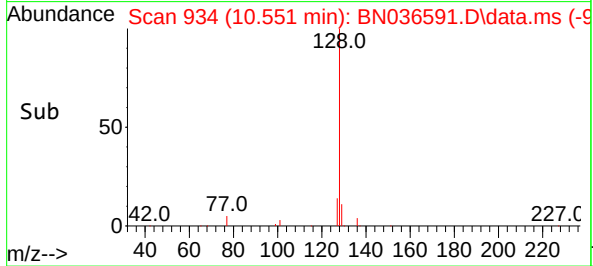
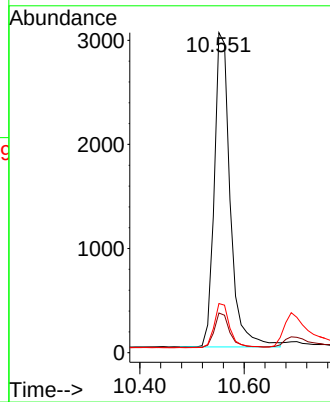
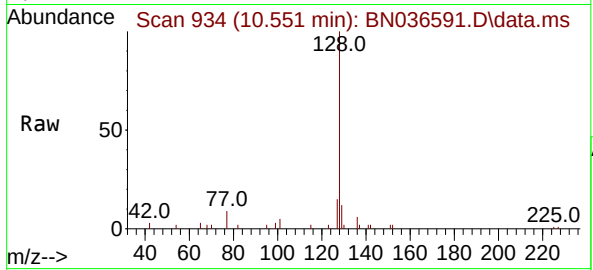




#9
Naphthalene
Concen: 0.411 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

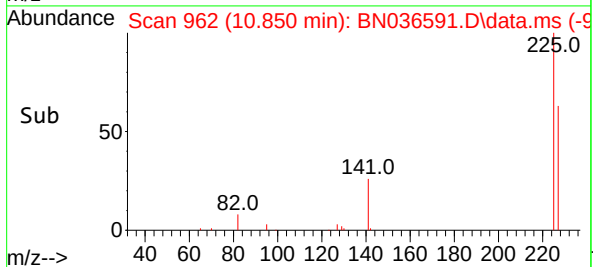
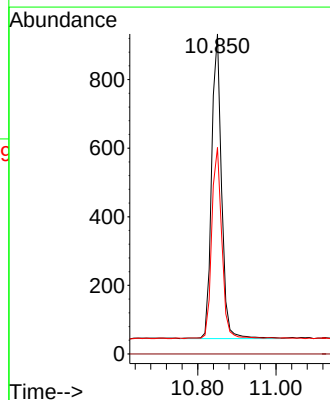
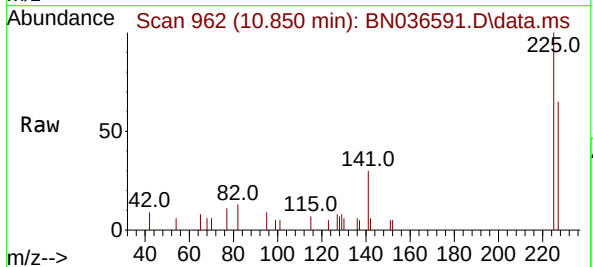
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

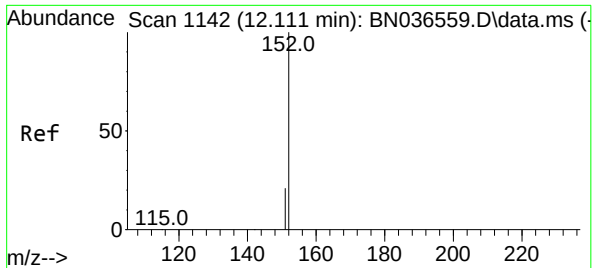
Tgt Ion:	128	Resp:	6414
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.4	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.426 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:	225	Resp:	1566
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.8	77.8

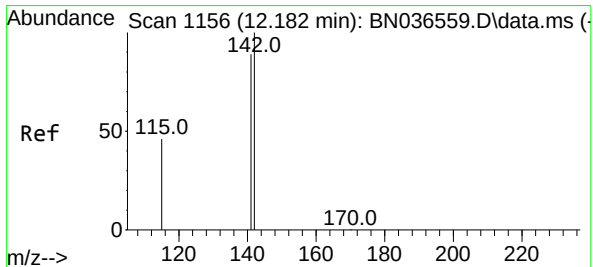
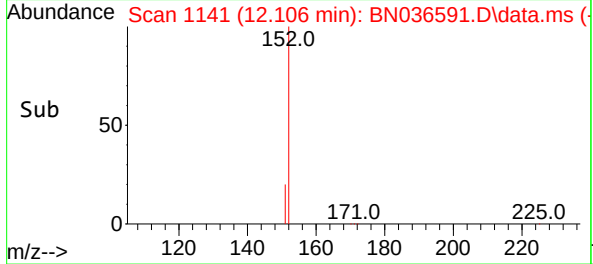
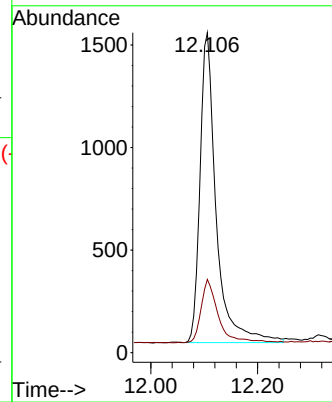
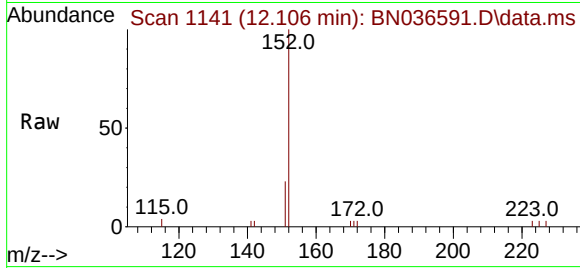




#11
2-Methylnaphthalene-d10
Concen: 0.402 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

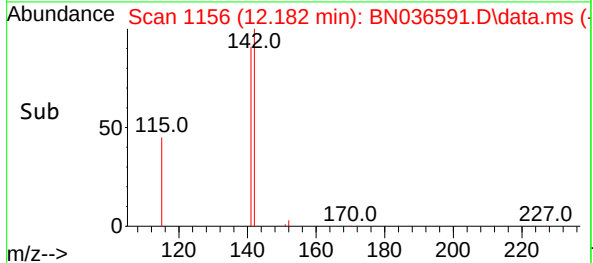
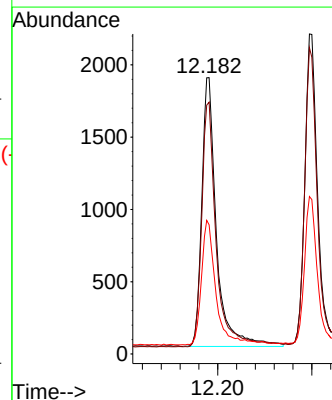
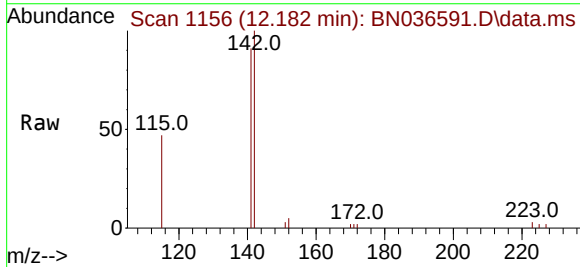
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ClientSampleId :
SSTDCCC0.4

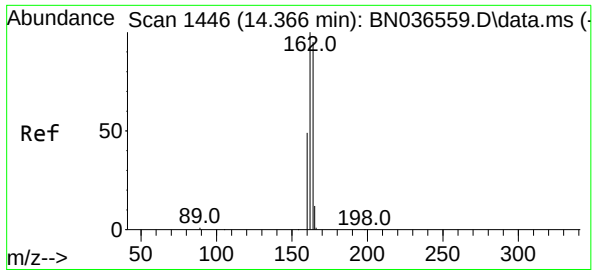
Tgt Ion:152 Resp: 3172
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.407 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:142 Resp: 4039
Ion Ratio Lower Upper
142 100
141 91.1 71.7 107.5
115 46.8 38.3 57.5

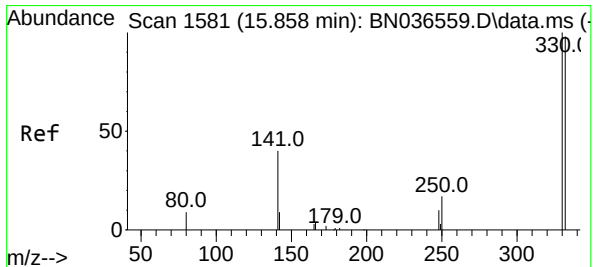
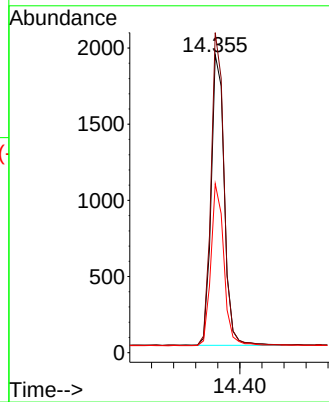
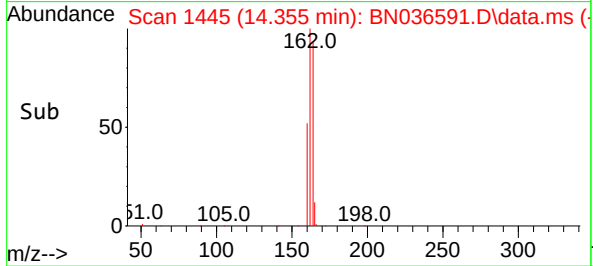
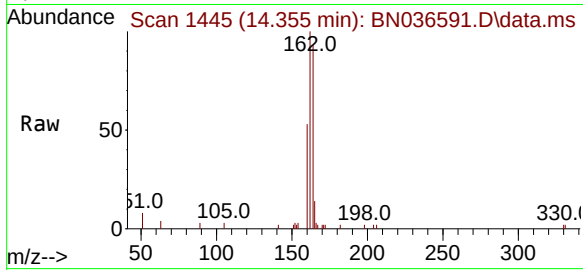




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

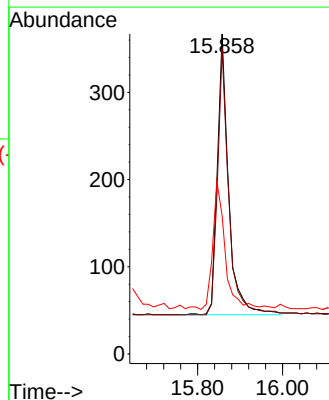
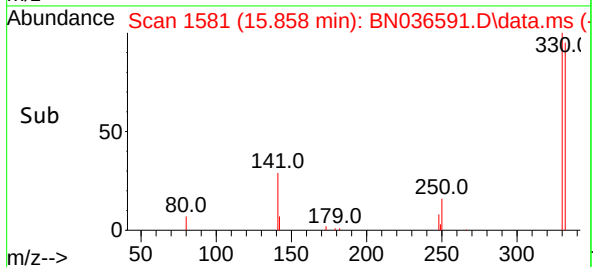
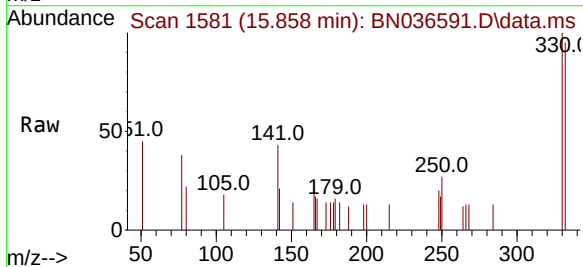
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

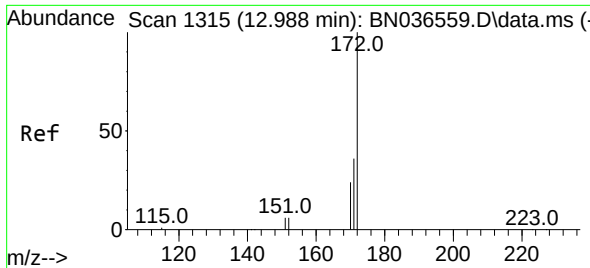
Tgt Ion:164 Resp: 3177
Ion Ratio Lower Upper
164 100
162 107.4 84.2 126.2
160 56.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:330 Resp: 595
Ion Ratio Lower Upper
330 100
332 93.6 75.2 112.8
141 50.9 43.4 65.2

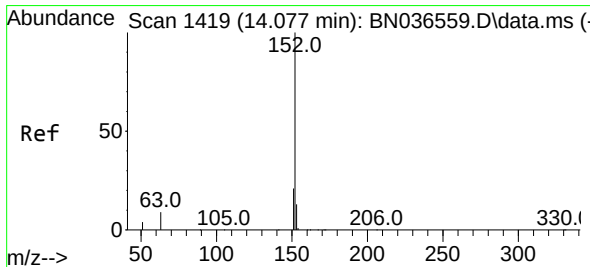
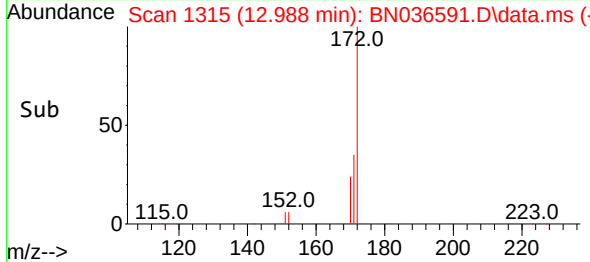
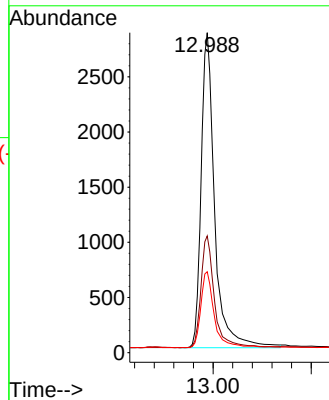
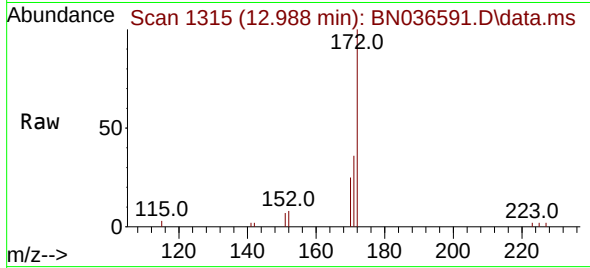




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

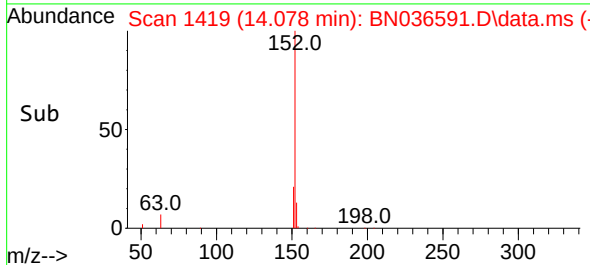
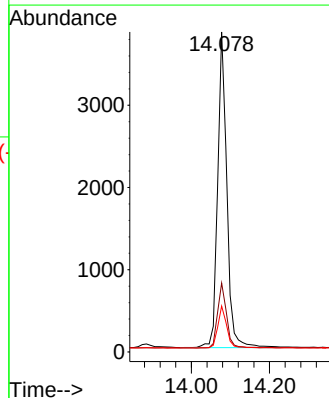
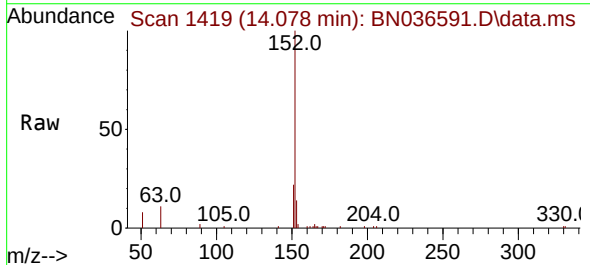
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

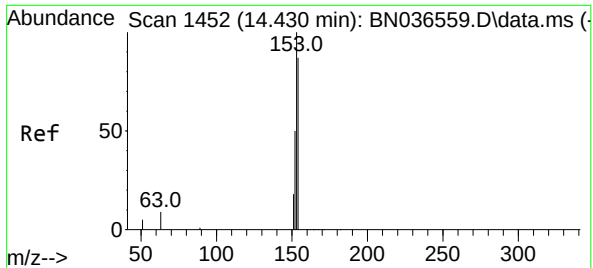
Tgt Ion:	172	Resp:	7478
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.5	44.3
170	25.3	20.2	30.4



#16
Acenaphthylene
Concen: 0.417 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:	152	Resp:	6255
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8

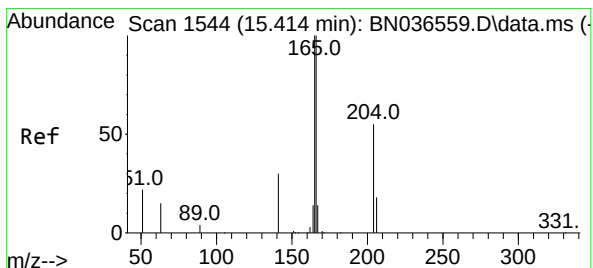
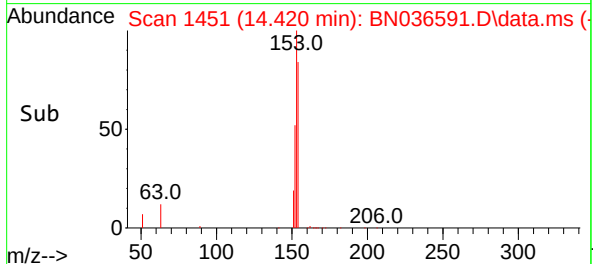
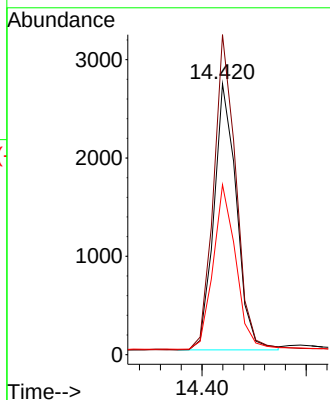
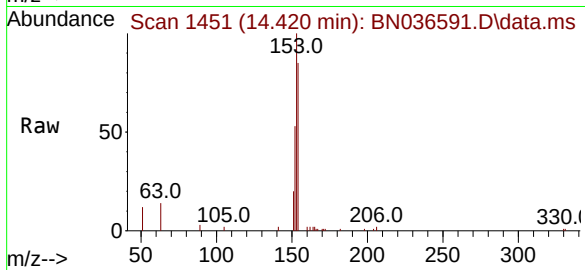




#17
Acenaphthene
Concen: 0.416 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

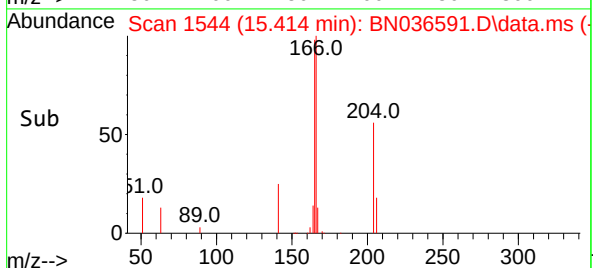
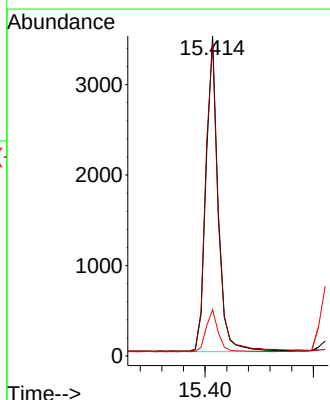
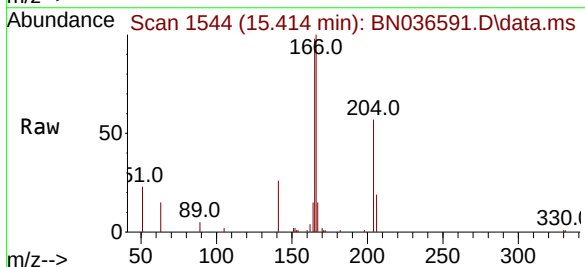
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

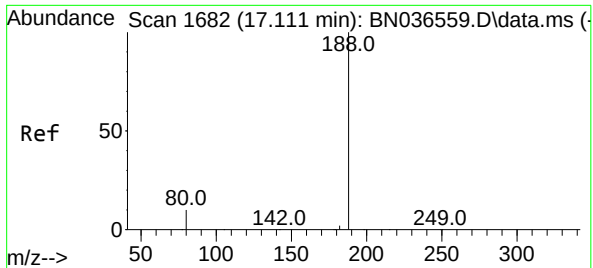
Tgt Ion:154 Resp: 4082
Ion Ratio Lower Upper
154 100
153 118.0 94.1 141.1
152 62.7 49.8 74.6



#18
Fluorene
Concen: 0.417 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:166 Resp: 5540
Ion Ratio Lower Upper
166 100
165 100.1 79.8 119.8
167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

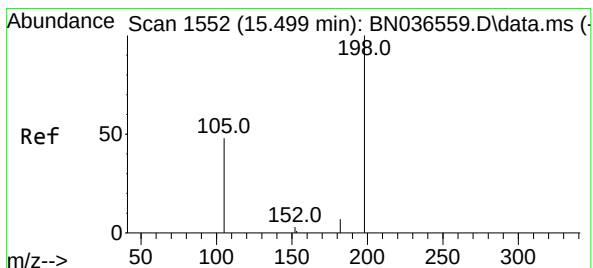
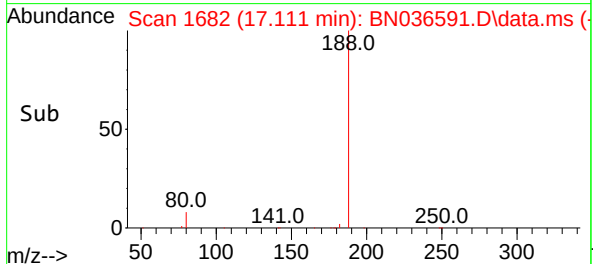
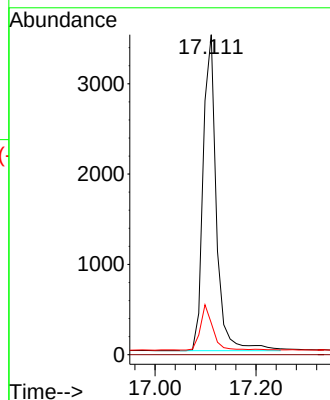
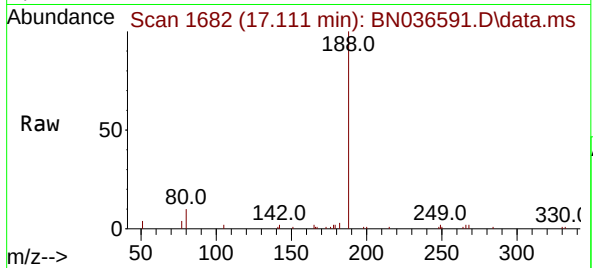
Tgt Ion:188 Resp: 6400

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.408 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

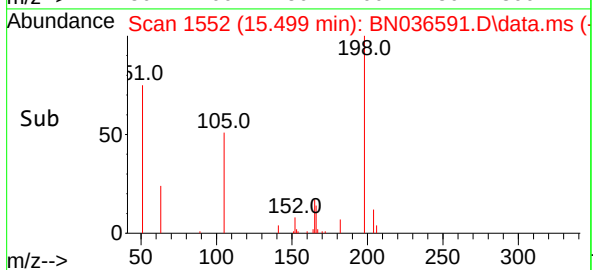
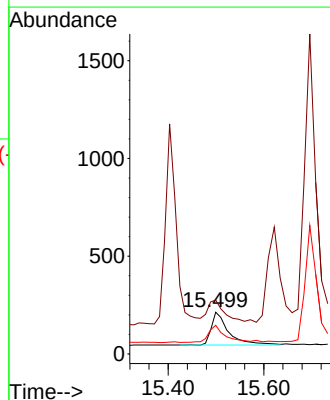
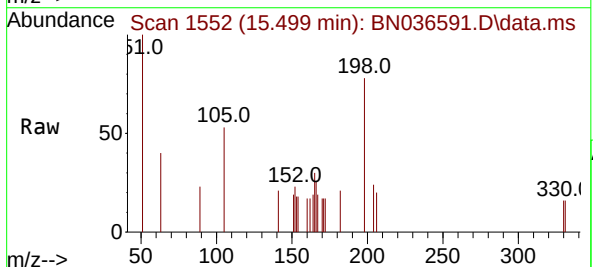
Tgt Ion:198 Resp: 428

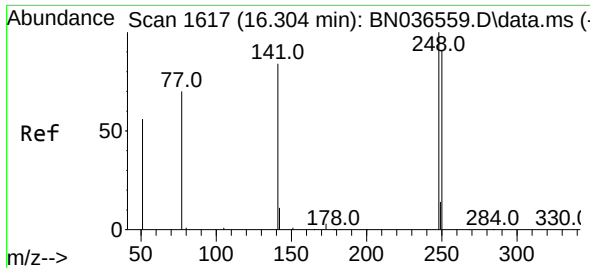
Ion Ratio Lower Upper

198 100

51 129.0 107.9 161.9

105 68.7 56.2 84.2

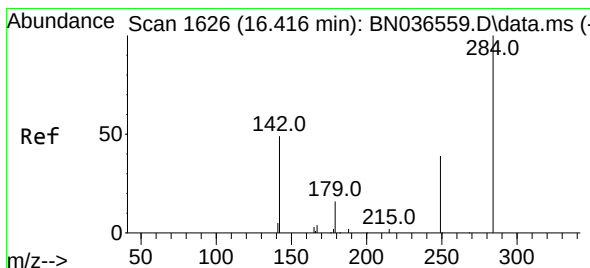
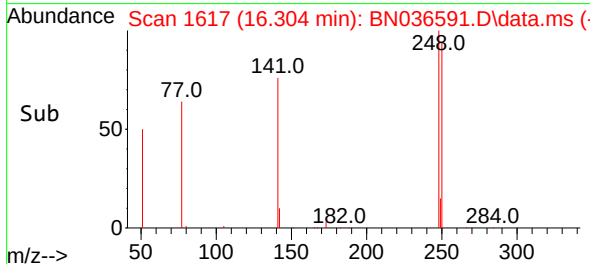
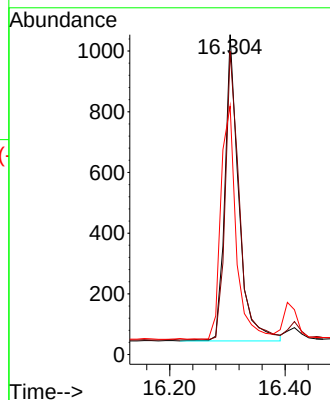
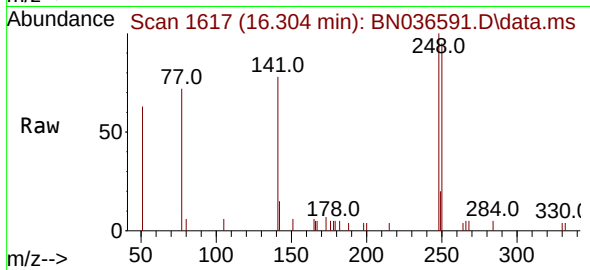




#21
4-Bromophenyl-phenylether
Concen: 0.420 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

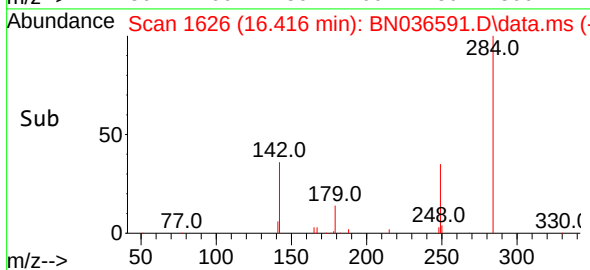
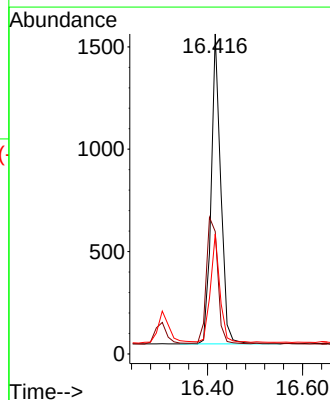
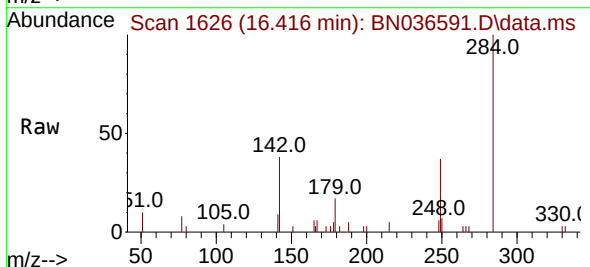
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

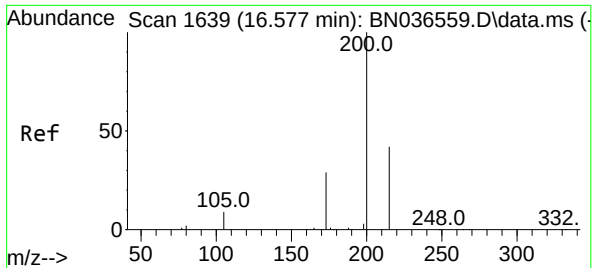
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.8	73.0	109.6
141	77.7	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.439 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion	Ratio	Lower	Upper
284	100		
142	48.3	37.0	55.4
249	34.9	28.1	42.1

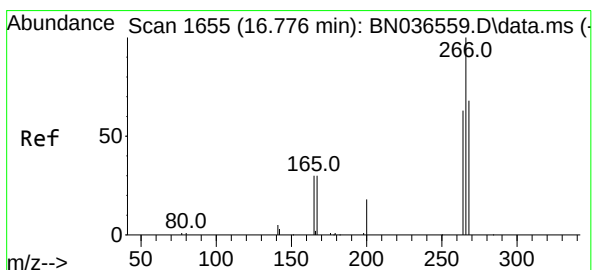
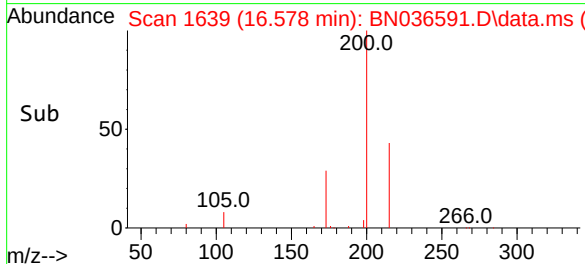
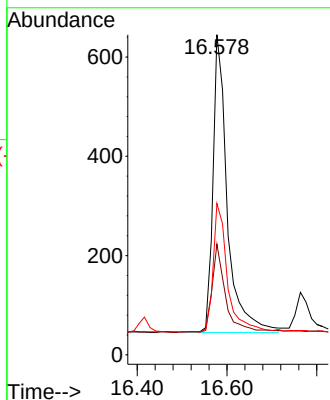
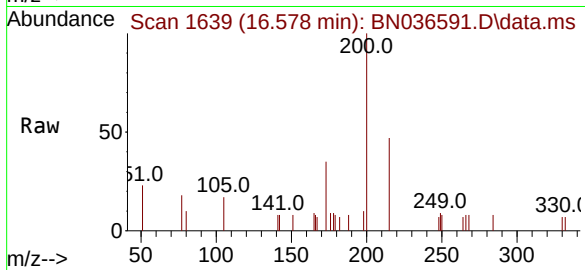




#23
Atrazine
Concen: 0.413 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

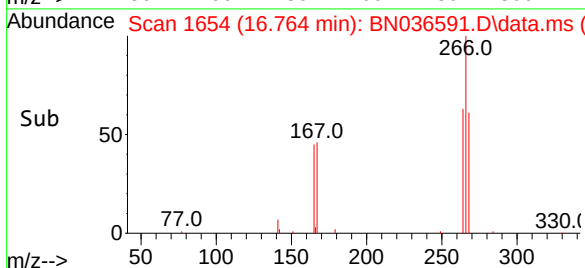
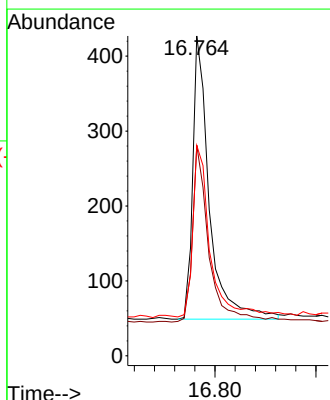
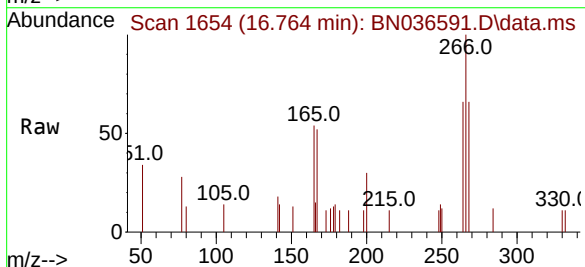
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

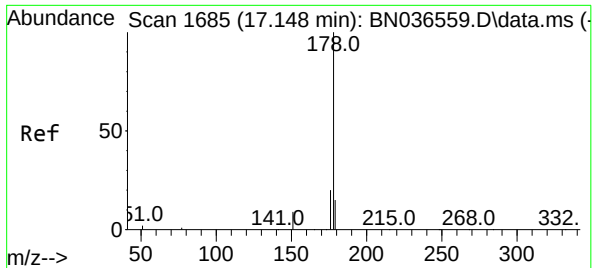
Tgt Ion:200 Resp: 1329
Ion Ratio Lower Upper
200 100
173 34.6 27.3 40.9
215 47.3 36.8 55.2



#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:266 Resp: 863
Ion Ratio Lower Upper
266 100
264 62.1 49.6 74.4
268 63.0 50.9 76.3

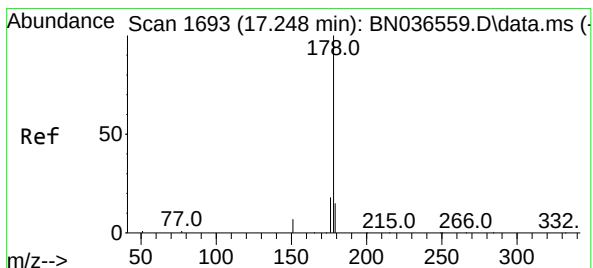
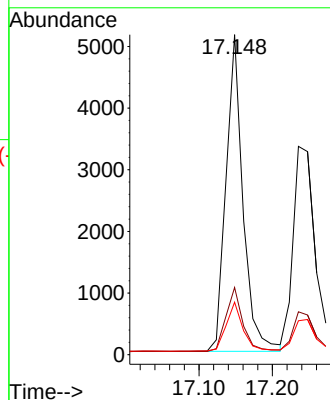
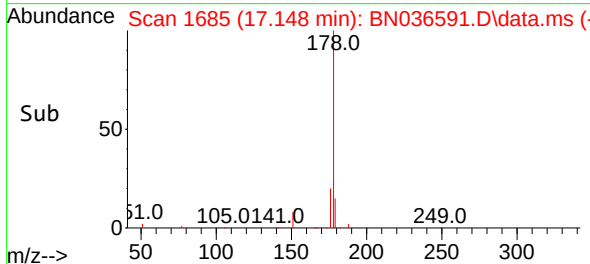
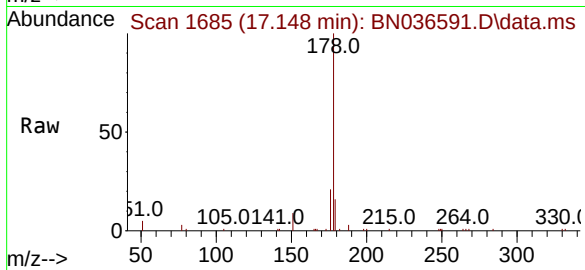




#25
Phenanthrene
Concen: 0.429 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

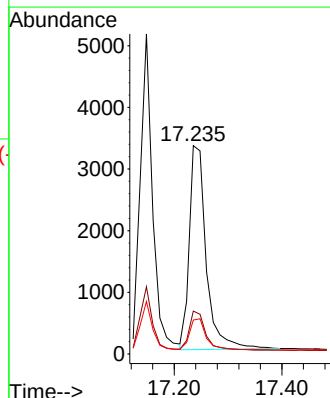
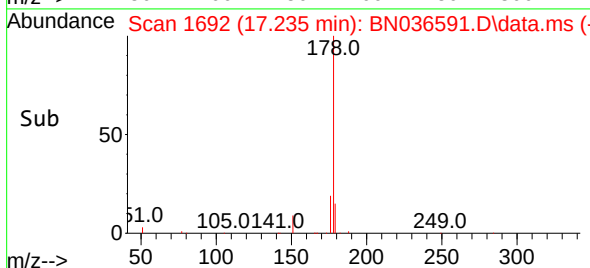
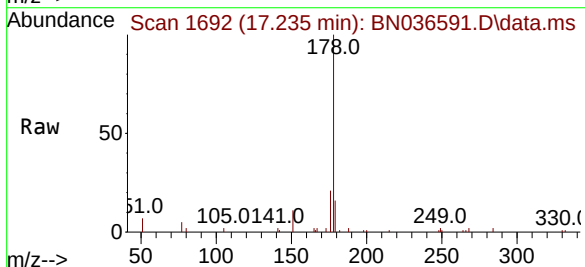
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

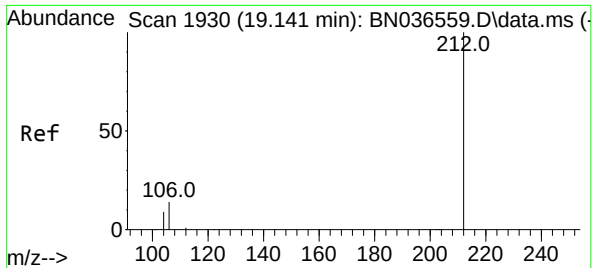
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.9	23.9
179	15.4	12.2	18.4



#26
Anthracene
Concen: 0.419 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.4	12.6	18.8





#27

Fluoranthene-d10

Concen: 0.421 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

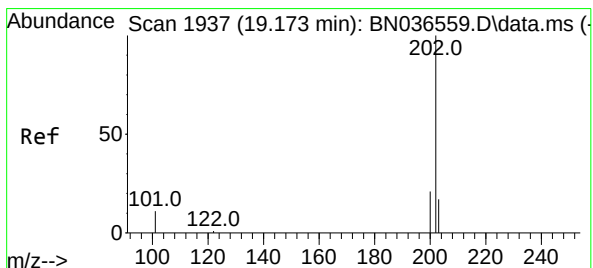
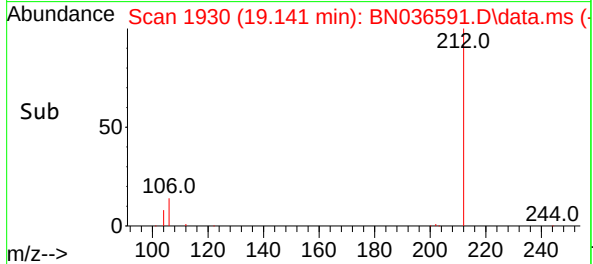
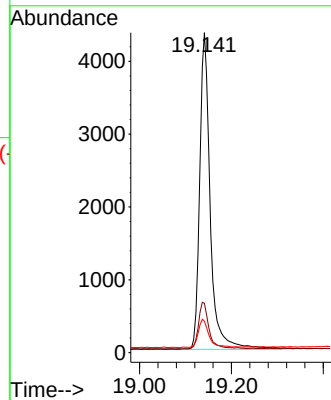
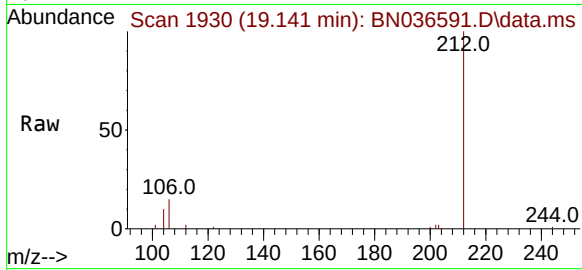
Tgt Ion:212 Resp: 6898

Ion Ratio Lower Upper

212 100

106 14.4 11.8 17.6

104 8.9 7.3 10.9



#28

Fluoranthene

Concen: 0.425 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

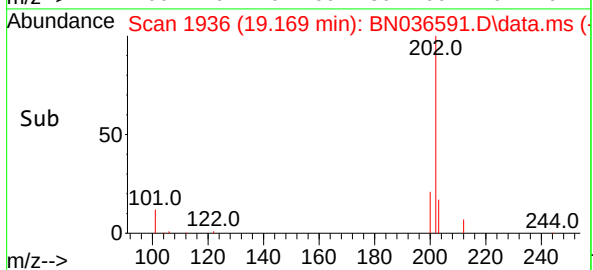
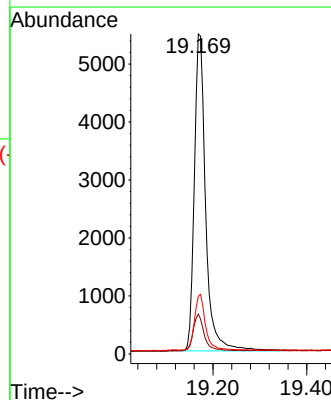
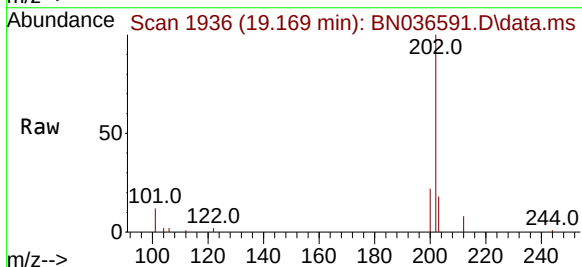
Tgt Ion:202 Resp: 9164

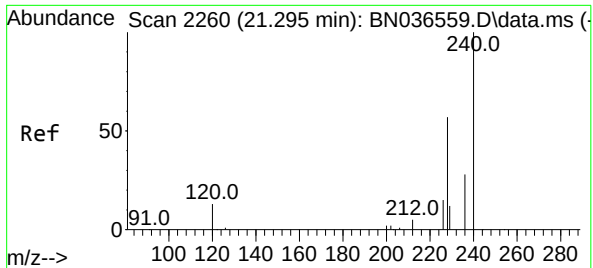
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.0

203 17.0 13.5 20.3

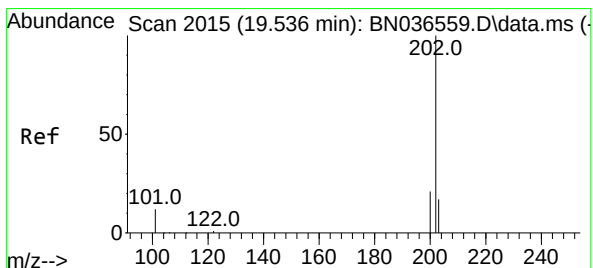
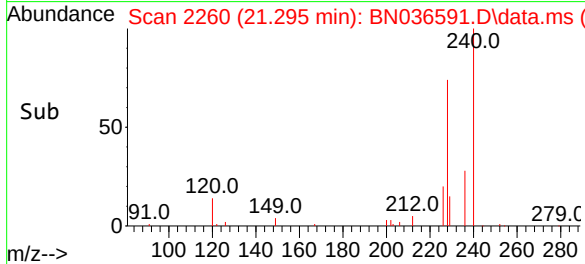
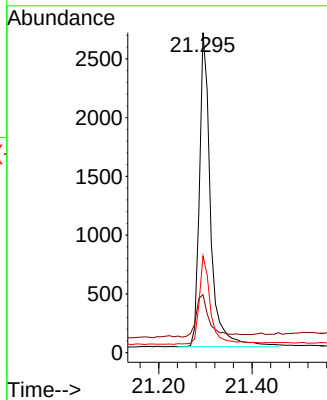
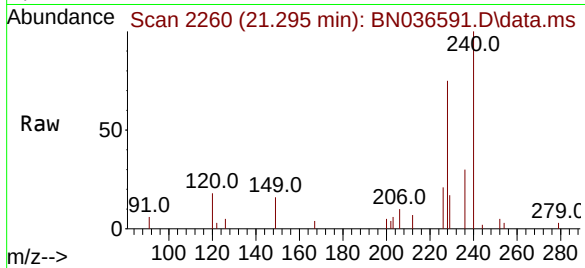




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

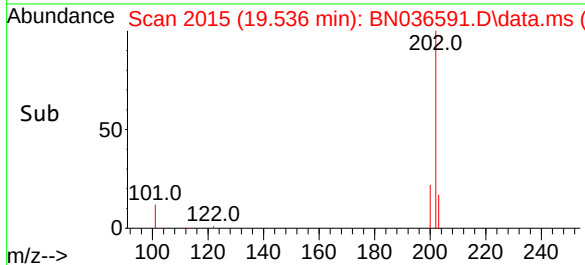
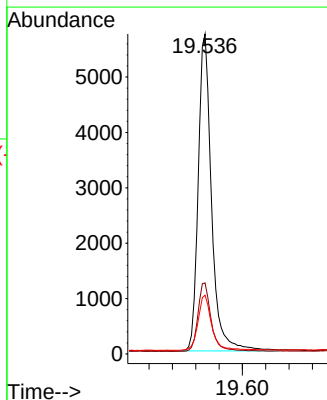
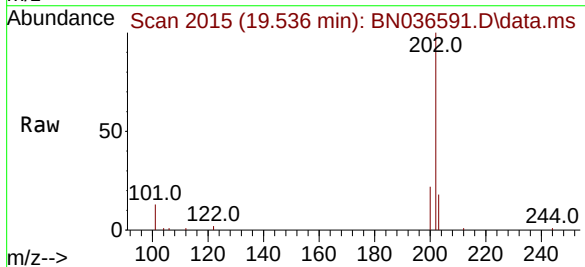
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

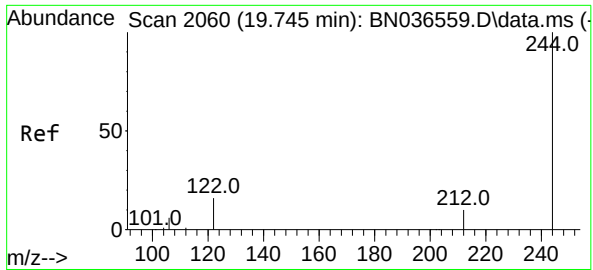
Tgt Ion:240 Resp: 4453
Ion Ratio Lower Upper
240 100
120 18.1 14.6 22.0
236 30.3 24.1 36.1



#30
Pyrene
Concen: 0.418 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:202 Resp: 9108
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 18.0 14.1 21.1

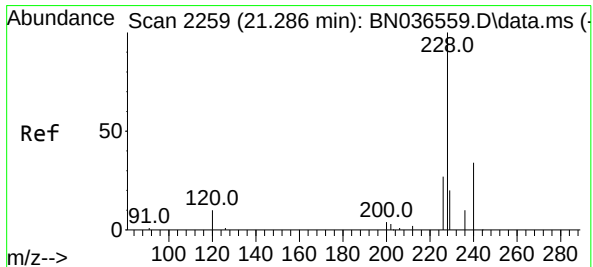
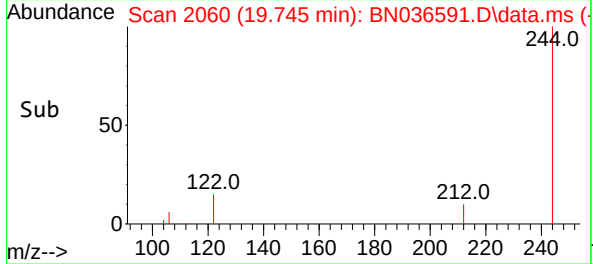
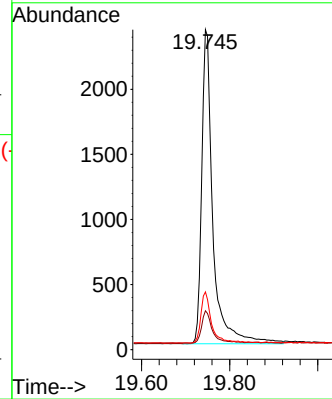
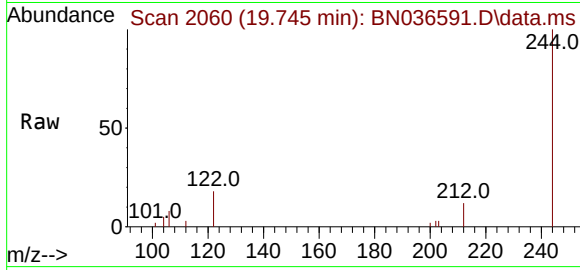




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

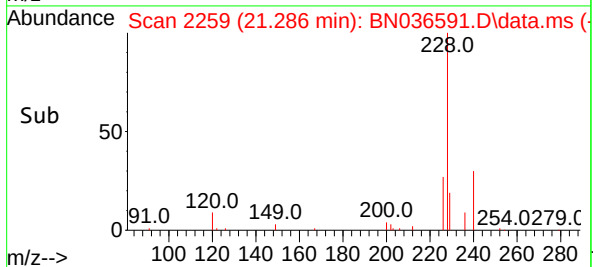
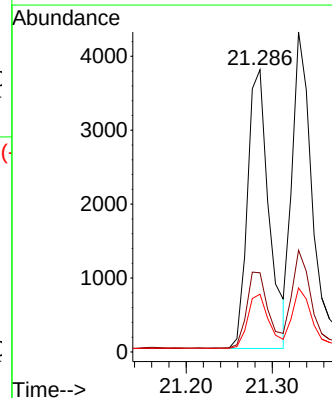
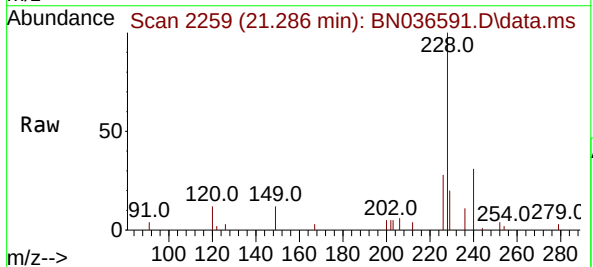
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

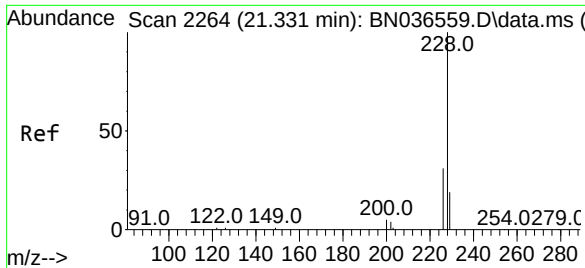
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	18.0	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.423 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.5	16.6	25.0





#33

Chrysene

Concen: 0.424 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

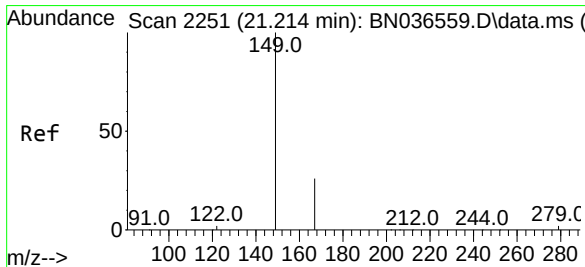
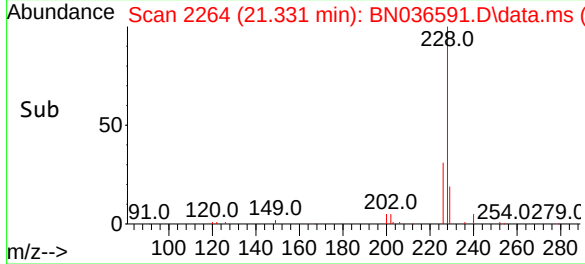
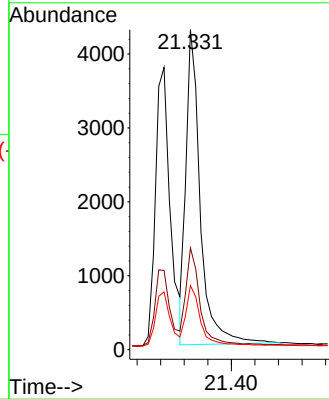
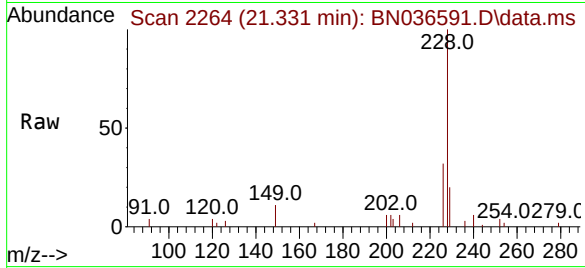
Tgt Ion:228 Resp: 7174

Ion Ratio Lower Upper

228 100

226 31.8 25.3 37.9

229 20.0 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.454 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

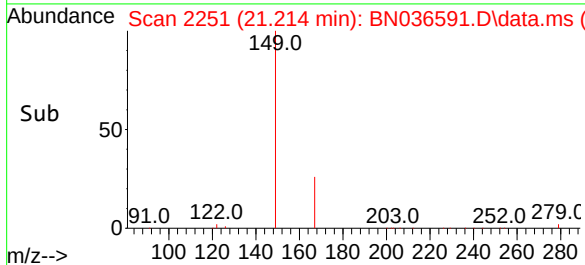
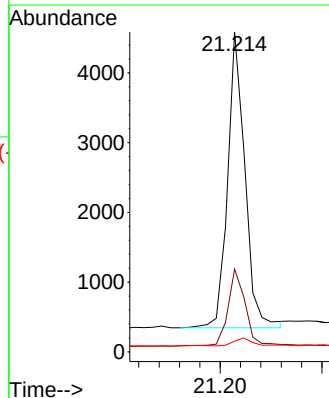
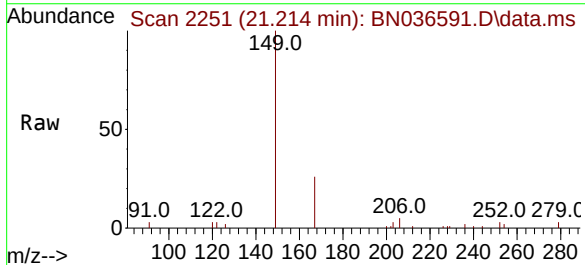
Tgt Ion:149 Resp: 5004

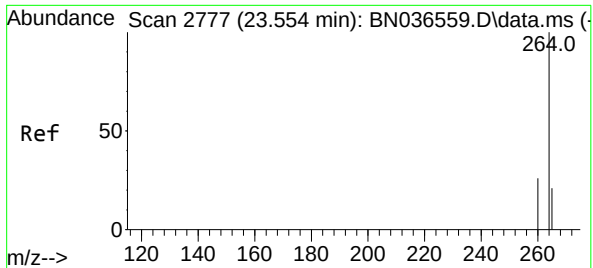
Ion Ratio Lower Upper

149 100

167 25.7 20.7 31.1

279 3.0 3.6 5.4#

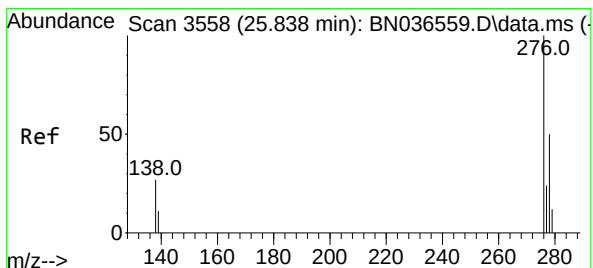
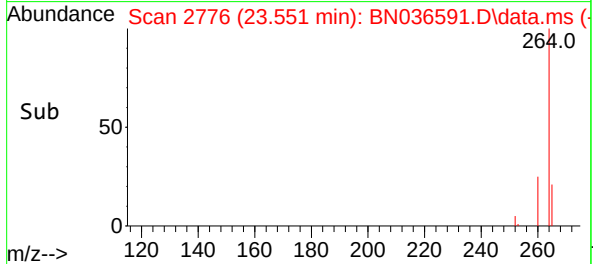
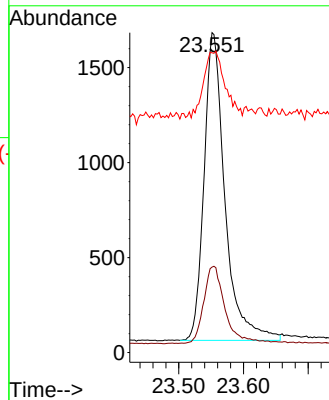
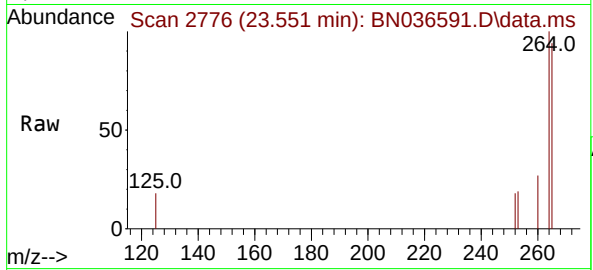




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

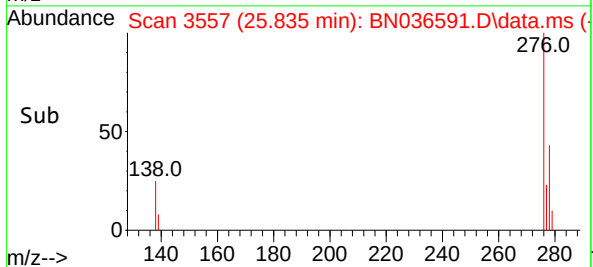
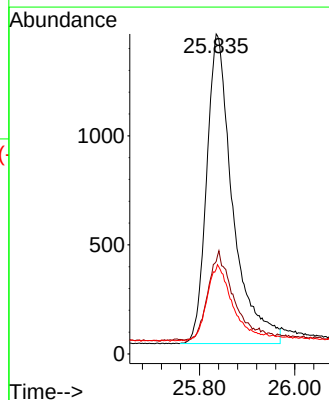
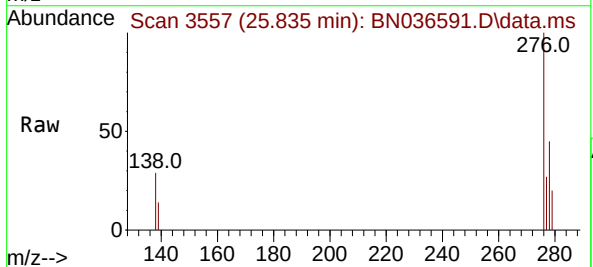
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

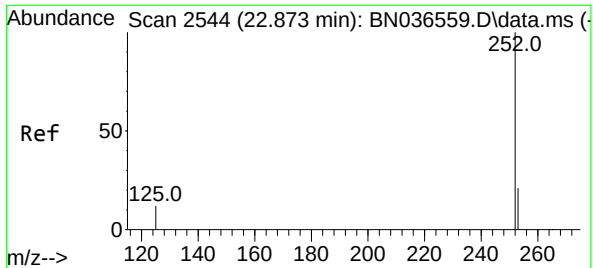
Tgt Ion:264 Resp: 3635
Ion Ratio Lower Upper
264 100
260 26.7 22.6 33.8
265 93.7 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.411 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036591.D
Acq: 12 Mar 2025 09:14

Tgt Ion:276 Resp: 5387
Ion Ratio Lower Upper
276 100
138 27.1 23.4 35.2
277 24.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.431 ng

RT: 22.873 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

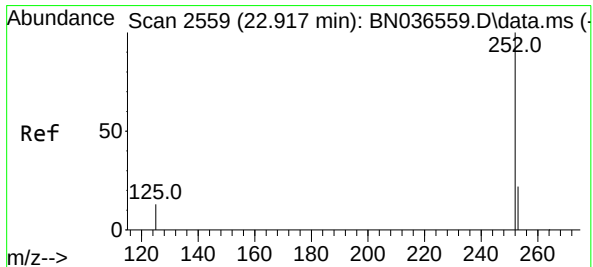
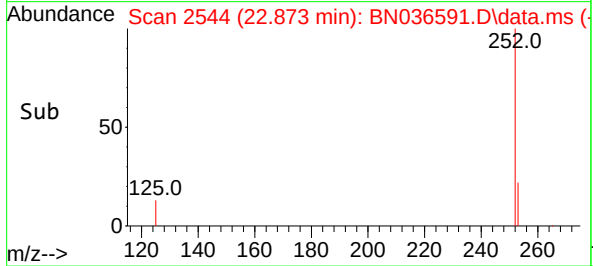
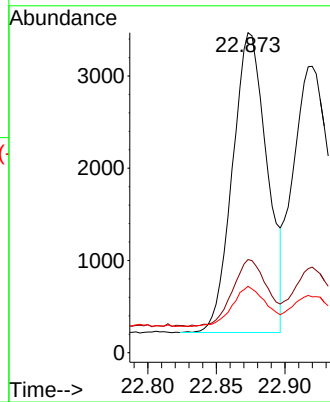
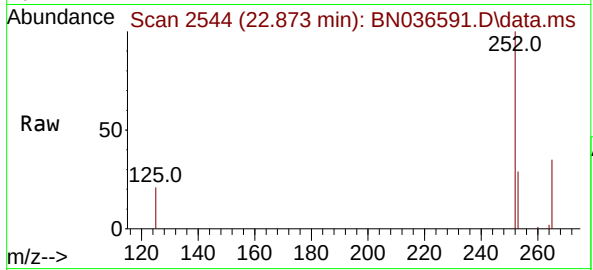
Tgt Ion:252 Resp: 5696

Ion Ratio Lower Upper

252 100

253 29.1 23.9 35.9

125 20.8 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.442 ng

RT: 22.920 min Scan# 2560

Delta R.T. 0.003 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

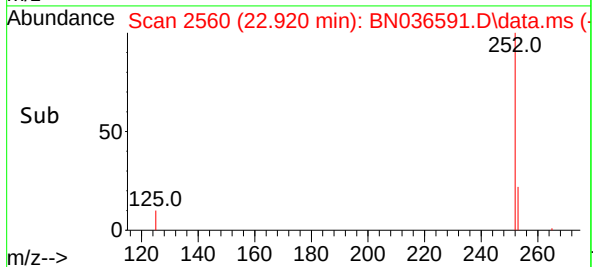
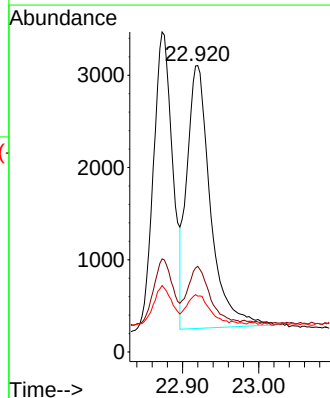
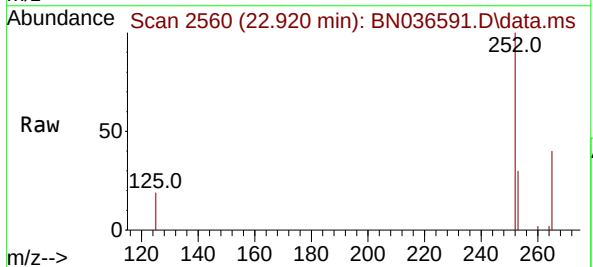
Tgt Ion:252 Resp: 6136

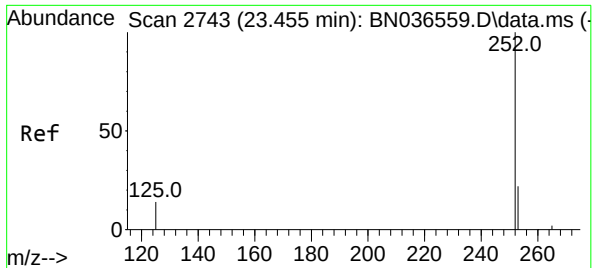
Ion Ratio Lower Upper

252 100

253 29.9 24.6 36.8

125 19.5 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.431 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

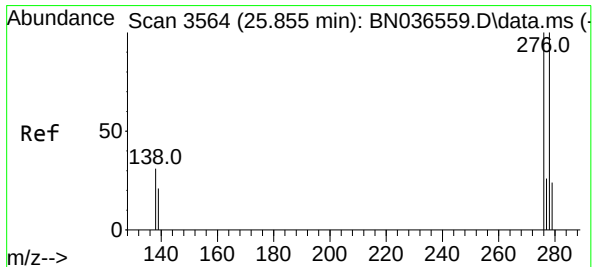
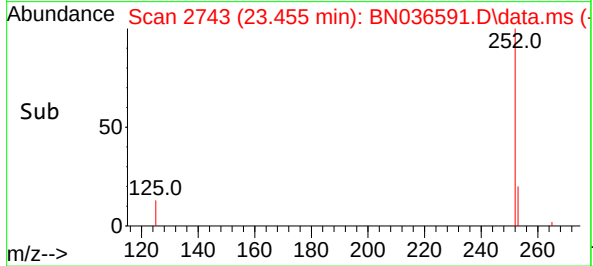
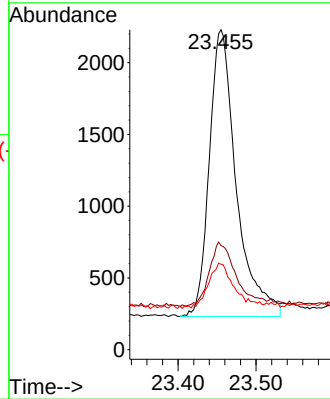
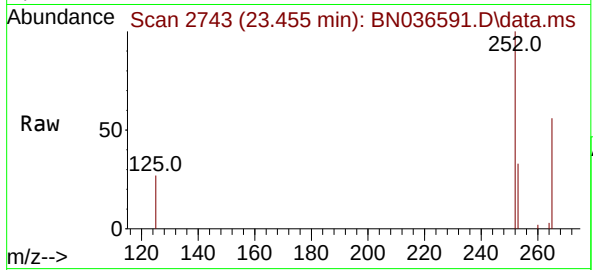
Tgt Ion:252 Resp: 4804

Ion Ratio Lower Upper

252 100

253 32.5 27.8 41.8

125 26.7 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.395 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036591.D

Acq: 12 Mar 2025 09:14

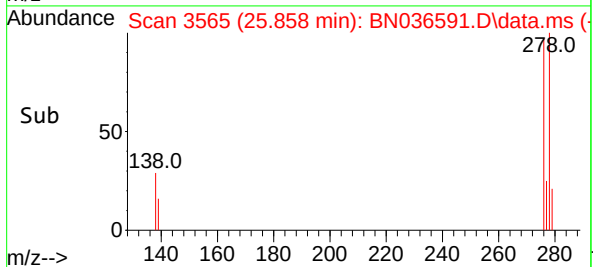
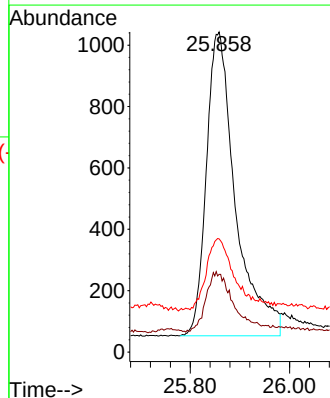
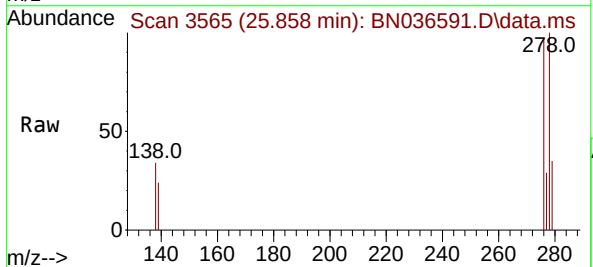
Tgt Ion:278 Resp: 4039

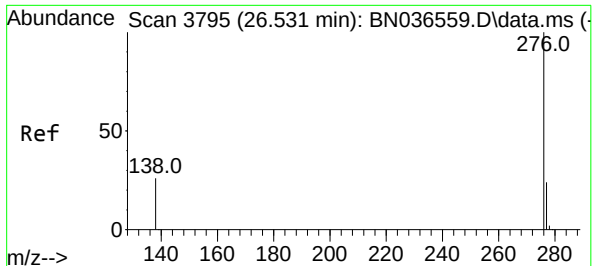
Ion Ratio Lower Upper

278 100

139 24.3 20.8 31.2

279 35.4 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.424 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036591.D

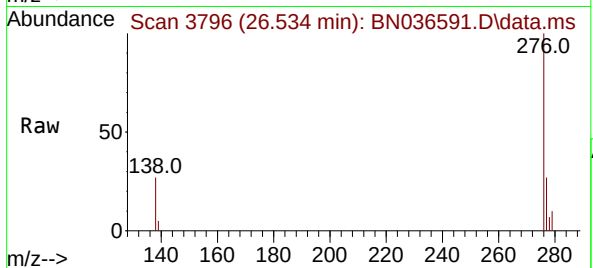
Acq: 12 Mar 2025 09:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



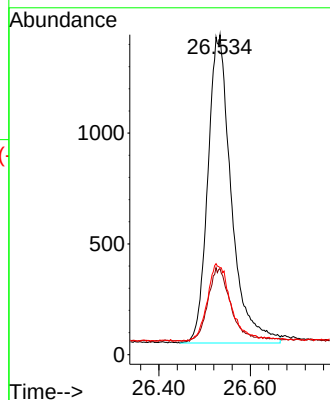
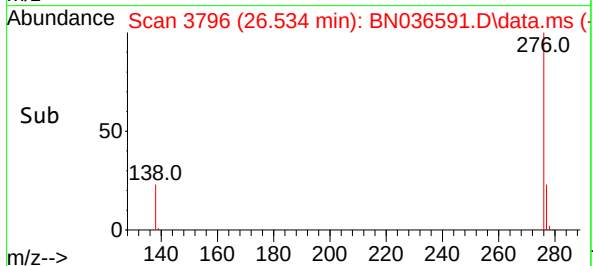
Tgt Ion:276 Resp: 4958

Ion Ratio Lower Upper

276 100

277 26.9 22.2 33.4

138 27.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
 Data File : BN036591.D
 Acq On : 12 Mar 2025 09:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 12 10:40:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	1,4-Dioxane	0.444	0.524	-18.0	106	0.00
3	n-Nitrosodimethylamine	0.898	0.963	-7.2	104	0.00
4 S	2-Fluorophenol	0.932	0.936	-0.4	95	0.00
5 S	Phenol-d6	1.152	1.110	3.6	99	0.00
6	bis(2-Chloroethyl)ether	1.190	1.203	-1.1	102	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
8 S	Nitrobenzene-d5	0.435	0.424	2.5	106	0.00
9	Naphthalene	1.177	1.209	-2.7	104	-0.01
10	Hexachlorobutadiene	0.277	0.295	-6.5	105	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.598	-0.5	103	0.00
12	2-Methylnaphthalene	0.749	0.762	-1.7	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	105	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.187	-2.7	105	0.00
15 S	2-Fluorobiphenyl	2.327	2.354	-1.2	103	0.00
16	Acenaphthylene	1.888	1.969	-4.3	107	0.00
17	Acenaphthene	1.236	1.285	-4.0	105	-0.01
18	Fluorene	1.672	1.744	-4.3	104	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.067	22.1	93	0.00
21	4-Bromophenyl-phenylether	0.251	0.263	-4.8	102	0.00
22	Hexachlorobenzene	0.303	0.332	-9.6	105	0.00
23	Atrazine	0.201	0.208	-3.5	104	0.00
24	Pentachlorophenol	0.138	0.135	2.2	105	-0.01
25	Phenanthrene	1.200	1.288	-7.3	106	0.00
26	Anthracene	1.083	1.134	-4.7	105	-0.01
27 SURR	Fluoranthene-d10	1.025	1.078	-5.2	103	0.00
28	Fluoranthene	1.348	1.432	-6.2	105	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	108	0.00
30	Pyrene	1.956	2.045	-4.6	104	0.00
31 S	Terphenyl-d14	0.958	0.957	0.1	101	0.00
32	Benzo(a)anthracene	1.391	1.472	-5.8	111	0.00
33	Chrysene	1.520	1.611	-6.0	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.124	-13.5	117	0.00
35 I	Perylene-d12	1.000	1.000	0.0	103	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.482	-2.6	98	0.00
37	Benzo(b)fluoranthene	1.456	1.567	-7.6	104	0.00
38	Benzo(k)fluoranthene	1.527	1.688	-10.5	107	0.00
39 C	Benzo(a)pyrene	1.226	1.322	-7.8	104	0.00
40	Dibenzo(a,h)anthracene	1.124	1.111	1.2	98	0.00
41	Benzo(g,h,i)perylene	1.286	1.364	-6.1	101	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036591.D
Acq On : 12 Mar 2025 09:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 12 10:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2	1,4-Dioxane	0.400	0.472	-18.0	106	0.00
3	n-Nitrosodimethylamine	0.400	0.429	-7.2	104	0.00
4 S	2-Fluorophenol	0.400	0.401	-0.3	95	0.00
5 S	Phenol-d6	0.400	0.386	3.5	99	0.00
6	bis(2-Chloroethyl)ether	0.400	0.404	-1.0	102	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	104	0.00
8 S	Nitrobenzene-d5	0.400	0.389	2.8	106	0.00
9	Naphthalene	0.400	0.411	-2.7	104	-0.01
10	Hexachlorobutadiene	0.400	0.426	-6.5	105	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.402	-0.5	103	0.00
12	2-Methylnaphthalene	0.400	0.407	-1.7	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	105	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.413	-3.2	105	0.00
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	103	0.00
16	Acenaphthylene	0.400	0.417	-4.2	107	0.00
17	Acenaphthene	0.400	0.416	-4.0	105	-0.01
18	Fluorene	0.400	0.417	-4.2	104	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.408	-2.0	93	0.00
21	4-Bromophenyl-phenylether	0.400	0.420	-5.0	102	0.00
22	Hexachlorobenzene	0.400	0.439	-9.7	105	0.00
23	Atrazine	0.400	0.413	-3.2	104	0.00
24	Pentachlorophenol	0.400	0.391	2.3	105	-0.01
25	Phenanthrene	0.400	0.429	-7.2	106	0.00
26	Anthracene	0.400	0.419	-4.7	105	-0.01
27 SURR	Fluoranthene-d10	0.400	0.421	-5.2	103	0.00
28	Fluoranthene	0.400	0.425	-6.2	105	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	108	0.00
30	Pyrene	0.400	0.418	-4.5	104	0.00
31 S	Terphenyl-d14	0.400	0.400	0.0	101	0.00
32	Benzo(a)anthracene	0.400	0.423	-5.7	111	0.00
33	Chrysene	0.400	0.424	-6.0	108	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.454	-13.5	117	0.00
35 I	Perylene-d12	0.400	0.400	0.0	103	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.411	-2.7	98	0.00
37	Benzo(b)fluoranthene	0.400	0.431	-7.7	104	0.00
38	Benzo(k)fluoranthene	0.400	0.442	-10.5	107	0.00
39 C	Benzo(a)pyrene	0.400	0.431	-7.7	104	0.00
40	Dibenzo(a,h)anthracene	0.400	0.395	1.3	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.424	-6.0	101	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.: Q1531 SAS No.: Q1531 SDG No.: Q1531

Instrument ID: BNA_N Calibration Date/Time: 03/12/2025 14:39

Lab File ID: BN036599.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.568		-4.5	50.0
Fluoranthene-d10	1.025	1.089		6.2	50.0
2-Fluorophenol	0.932	0.958		2.8	50.0
Phenol-d6	1.152	1.129		-2.0	50.0
Nitrobenzene-d5	0.435	0.442		1.6	50.0
2-Fluorobiphenyl	2.327	2.369		1.8	50.0
2,4,6-Tribromophenol	0.182	0.191		4.9	50.0
Terphenyl-d14	0.958	1.019		6.4	50.0
1,4-Dioxane	0.444	0.504		13.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
 Data File : BN036599.D
 Acq On : 12 Mar 2025 14:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 12 15:13:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

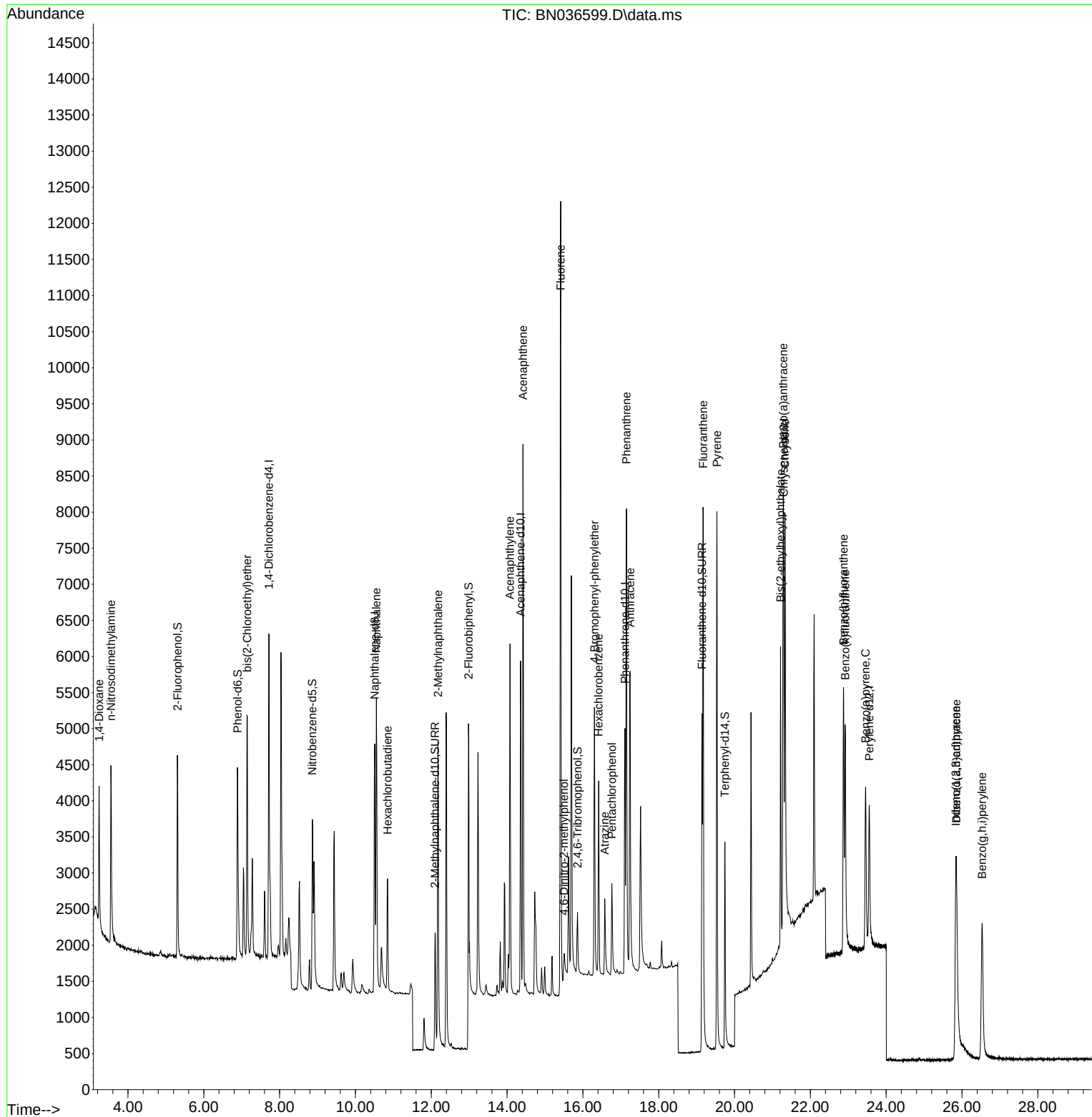
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2143	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4893	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	2741	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5315	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3522	0.400	ng	0.00
35) Perylene-d12	23.554	264	3048	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2053	0.411	ng	0.00
5) Phenol-d6	6.894	99	2419	0.392	ng	0.00
8) Nitrobenzene-d5	8.864	82	2165	0.407	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2781	0.382	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	523	0.420	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6493	0.407	ng	0.00
27) Fluoranthene-d10	19.141	212	5789	0.425	ng	0.00
31) Terphenyl-d14	19.745	244	3590	0.425	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1080	0.454	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.550	42	2077	0.432	ng	# 97
6) bis(2-Chloroethyl)ether	7.146	93	2535	0.397	ng	100
9) Naphthalene	10.551	128	5662	0.393	ng	99
10) Hexachlorobutadiene	10.850	225	1364	0.403	ng	# 99
12) 2-Methylnaphthalene	12.177	142	3509	0.383	ng	97
16) Acenaphthylene	14.077	152	5282	0.408	ng	100
17) Acenaphthene	14.420	154	3472	0.410	ng	99
18) Fluorene	15.414	166	4821	0.421	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	422	0.456	ng	# 80
21) 4-Bromophenyl-phenylether	16.304	248	1471	0.442	ng	93
22) Hexachlorobenzene	16.416	284	1775	0.442	ng	94
23) Atrazine	16.577	200	1127	0.422	ng	97
24) Pentachlorophenol	16.764	266	728	0.397	ng	98
25) Phenanthrene	17.148	178	6995	0.439	ng	100
26) Anthracene	17.248	178	6038	0.420	ng	99
28) Fluoranthene	19.173	202	7601	0.424	ng	99
30) Pyrene	19.536	202	7693	0.447	ng	99
32) Benzo(a)anthracene	21.286	228	5109	0.417	ng	99
33) Chrysene	21.331	228	5894	0.440	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4026	0.462	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.838	276	4646	0.422	ng	97
37) Benzo(b)fluoranthene	22.876	252	4787	0.432	ng	98
38) Benzo(k)fluoranthene	22.920	252	5015	0.431	ng	98
39) Benzo(a)pyrene	23.455	252	4056	0.434	ng	97
40) Dibenzo(a,h)anthracene	25.852	278	3545	0.414	ng	96
41) Benzo(g,h,i)perylene	26.531	276	4295	0.438	ng	98

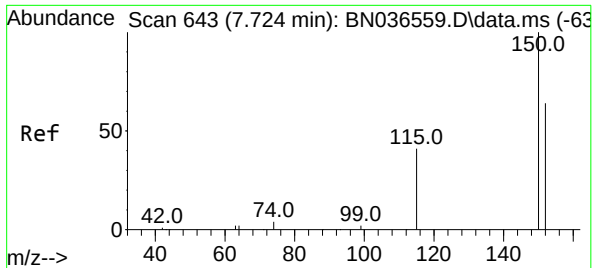
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036599.D
Acq On : 12 Mar 2025 14:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 12 15:13:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

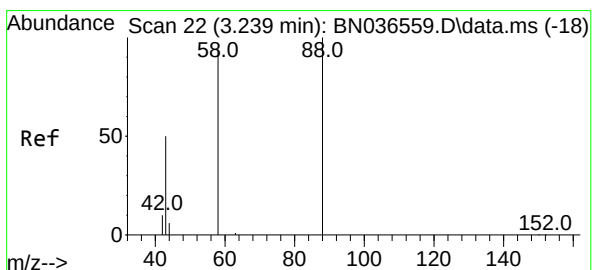
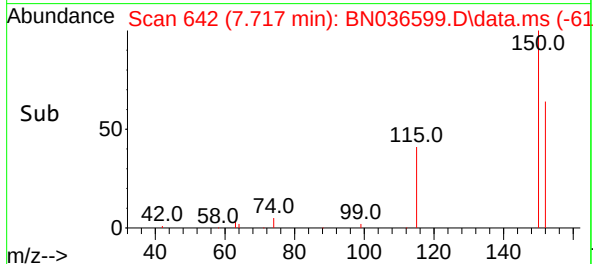
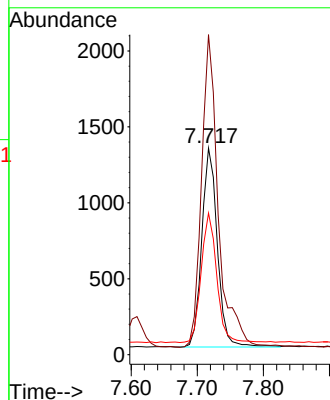
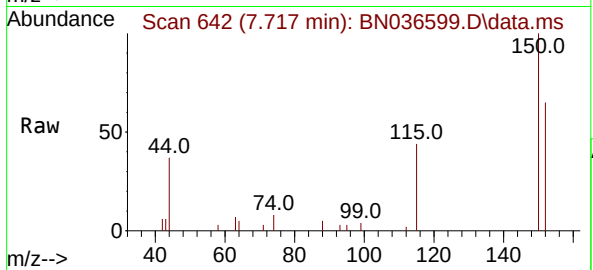




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

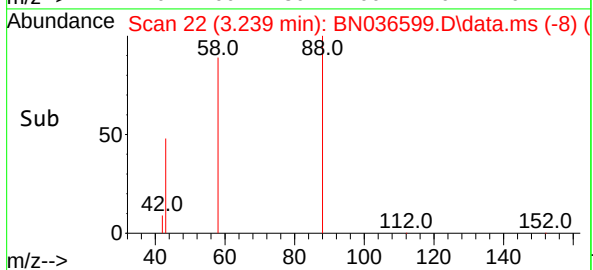
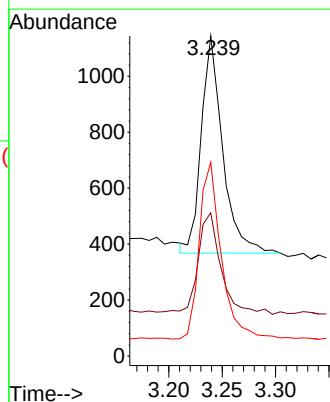
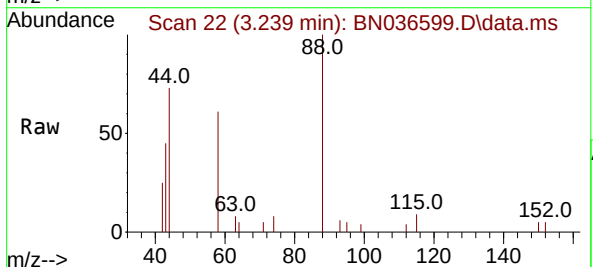
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2143
Ion Ratio Lower Upper
152 100
150 154.9 123.7 185.5
115 68.6 54.3 81.5

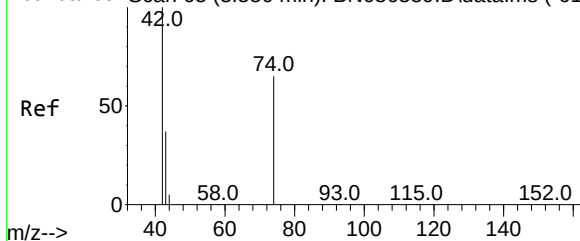


#2
1,4-Dioxane
Concen: 0.454 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

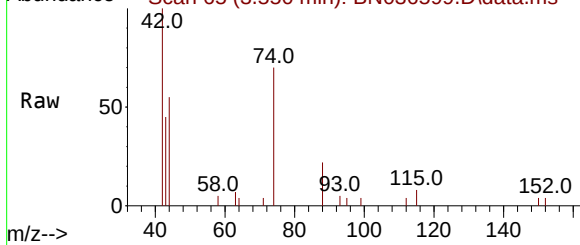
Tgt Ion: 88 Resp: 1080
Ion Ratio Lower Upper
88 100
43 51.2 37.8 56.8
58 83.7 67.4 101.2



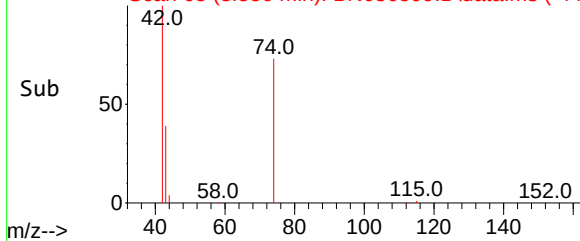
Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



Abundance Scan 65 (3.550 min): BN036599.D\data.ms



Abundance Scan 65 (3.550 min): BN036599.D\data.ms (-44)



#3

n-Nitrosodimethylamine

Concen: 0.432 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2077

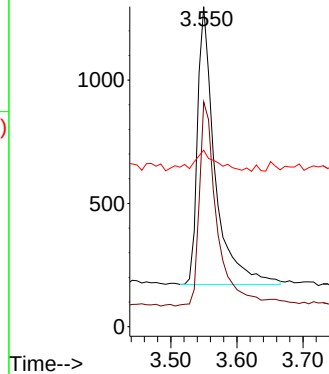
Ion Ratio Lower Upper

42 100

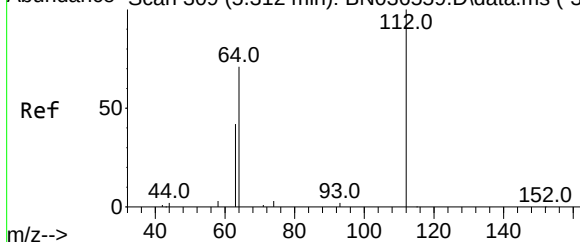
74 73.6 60.6 90.8

44 9.6 6.3 9.5#

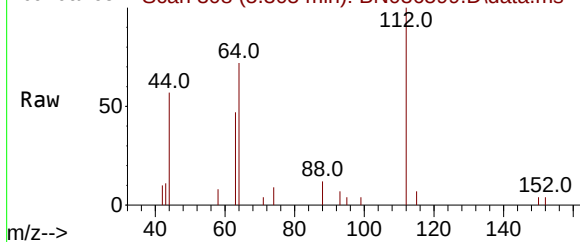
Abundance



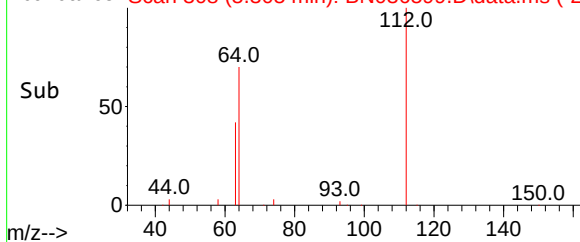
Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



Abundance Scan 308 (5.305 min): BN036599.D\data.ms



Abundance Scan 308 (5.305 min): BN036599.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.411 ng

RT: 5.305 min Scan# 308

Delta R.T. -0.007 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

Tgt Ion: 112 Resp: 2053

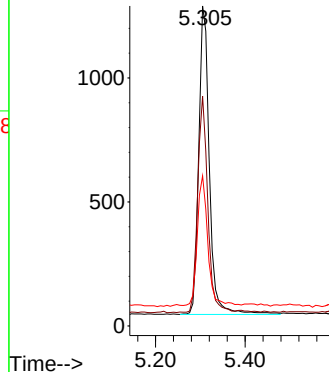
Ion Ratio Lower Upper

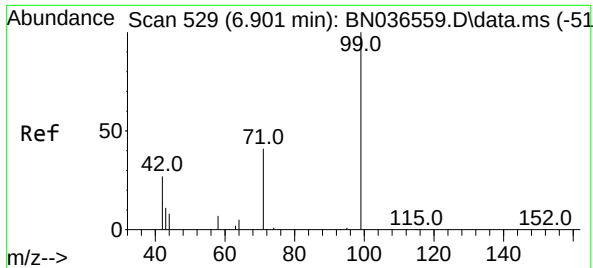
112 100

64 66.8 53.1 79.7

63 41.1 31.8 47.8

Abundance

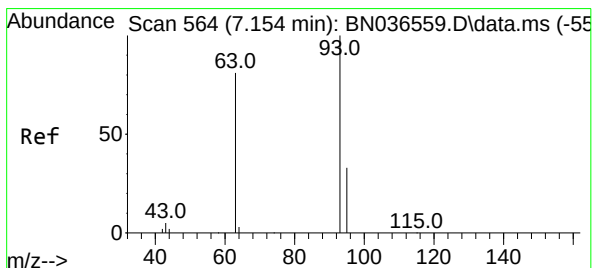
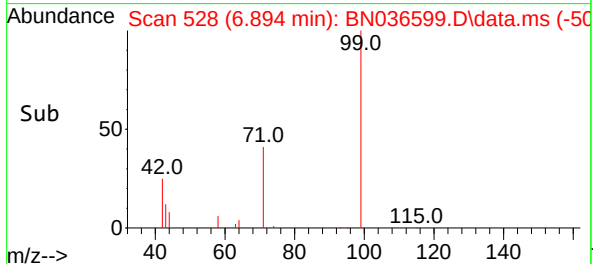
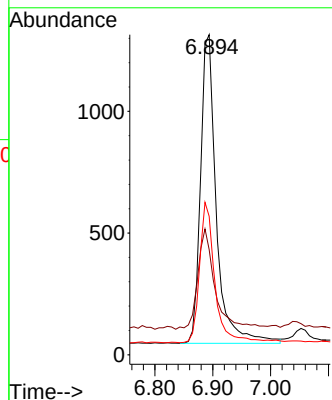
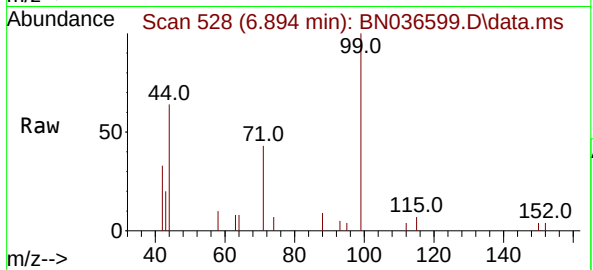




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

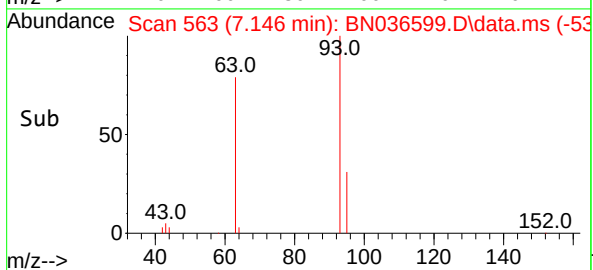
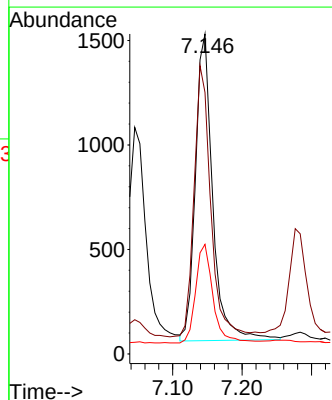
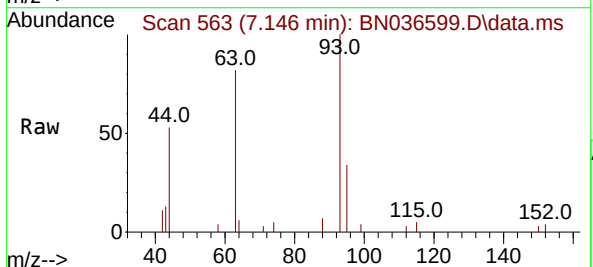
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

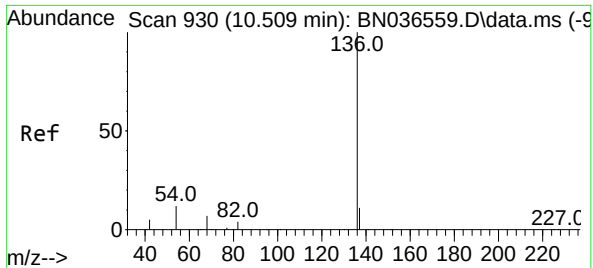
Tgt Ion: 99 Resp: 2419
Ion Ratio Lower Upper
99 100
42 35.6 26.5 39.7
71 44.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion: 93 Resp: 2535
Ion Ratio Lower Upper
93 100
63 85.2 67.7 101.5
95 32.0 25.6 38.4

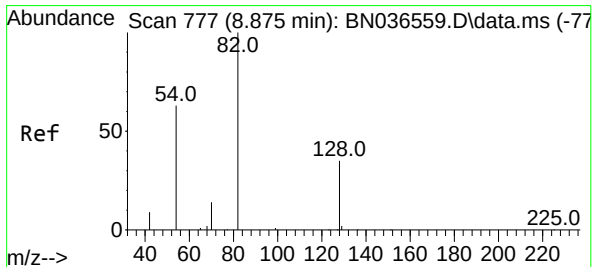
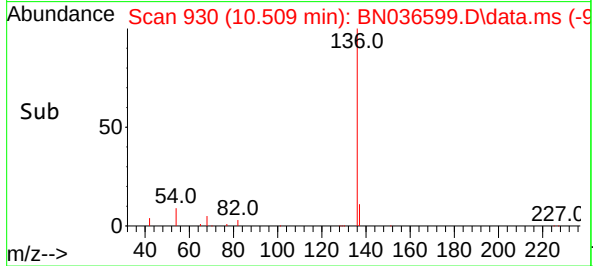
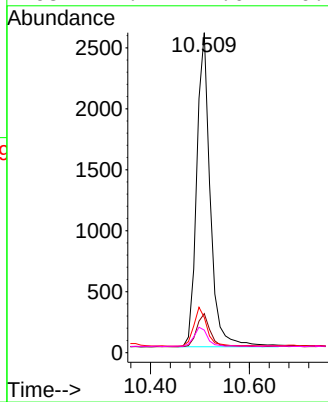
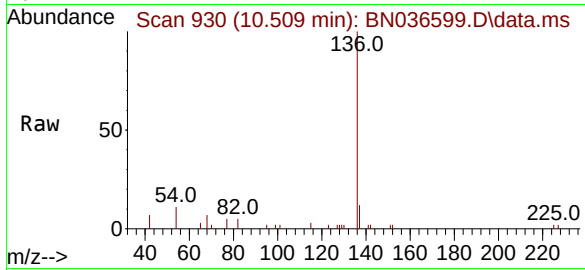




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

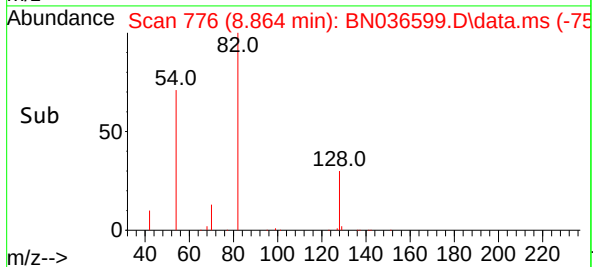
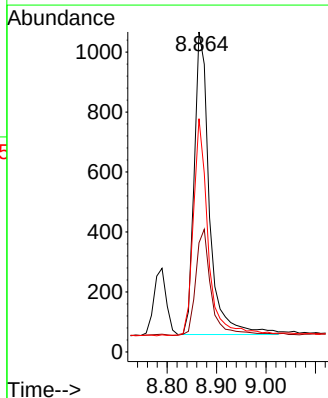
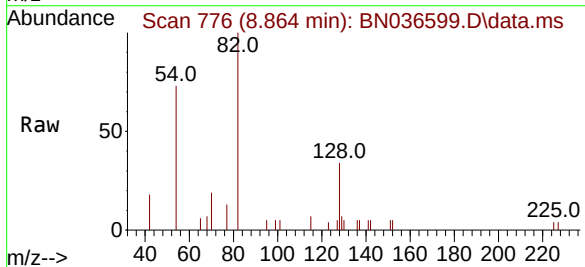
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

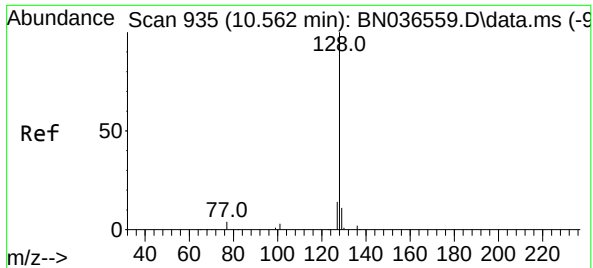
Tgt Ion:	136	Resp:	4893
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.0	11.5	17.3#
68	7.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:	82	Resp:	2165
Ion	Ratio	Lower	Upper
82	100		
128	34.1	30.6	45.8
54	72.9	52.2	78.4

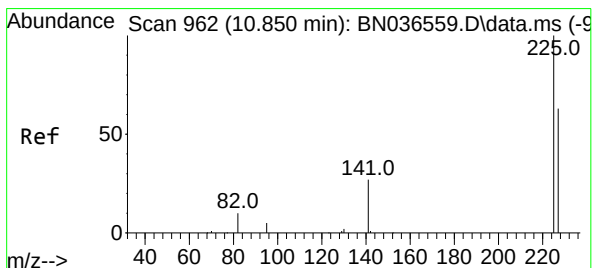
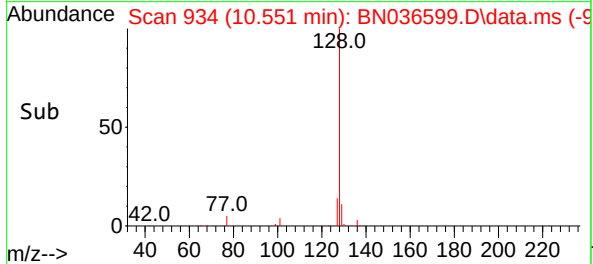
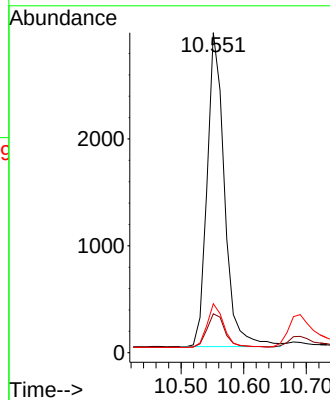
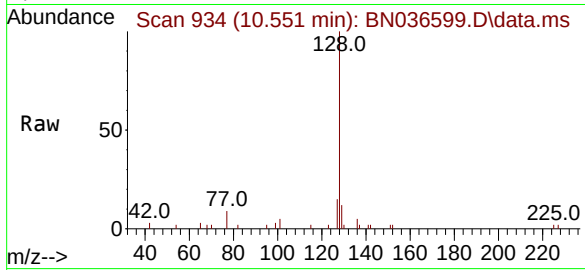




#9
Naphthalene
Concen: 0.393 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

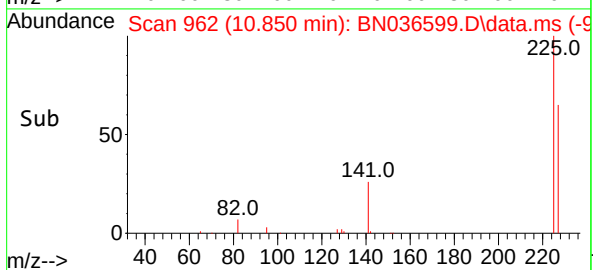
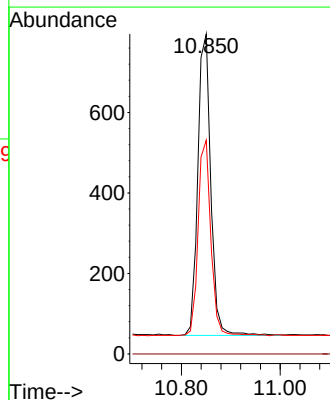
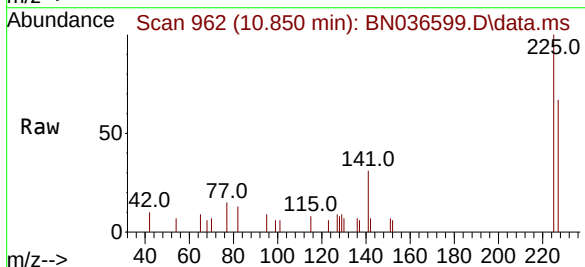
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

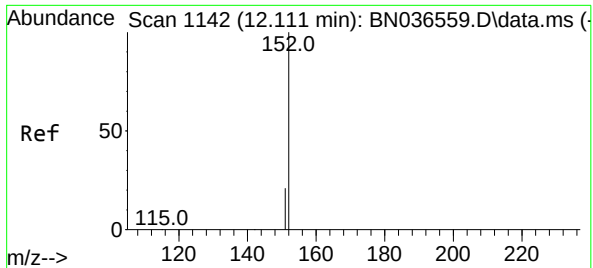
Tgt Ion:	128	Resp:	5662
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	15.3	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.403 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:	225	Resp:	1364
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8

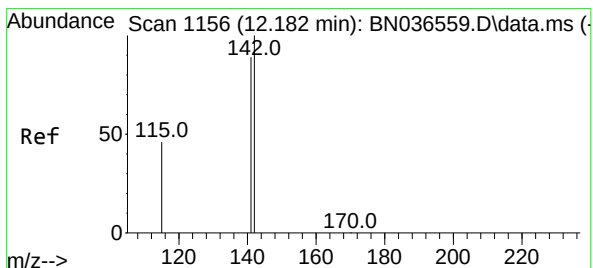
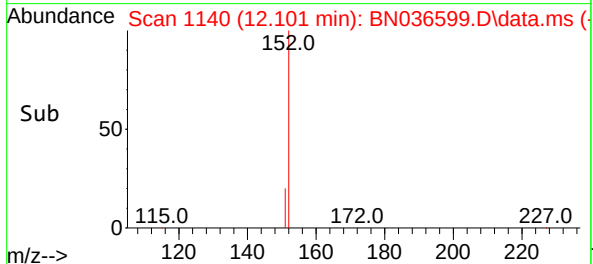
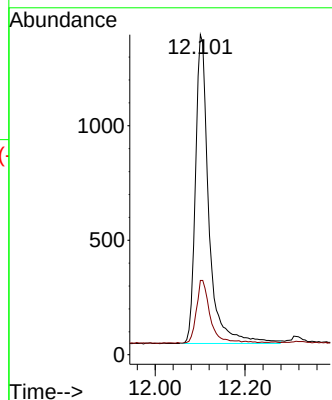
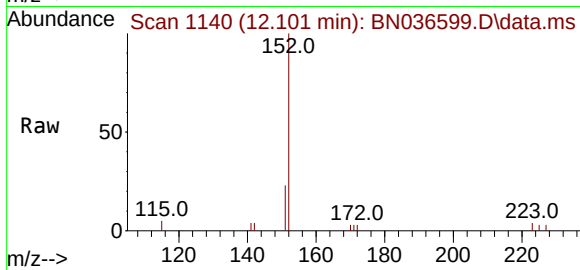




#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

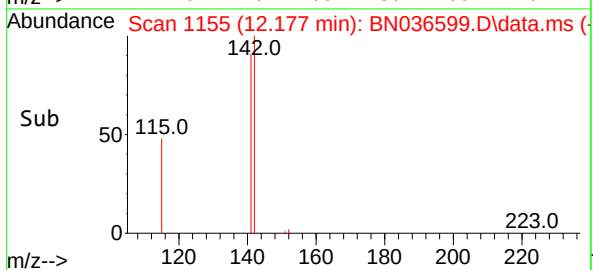
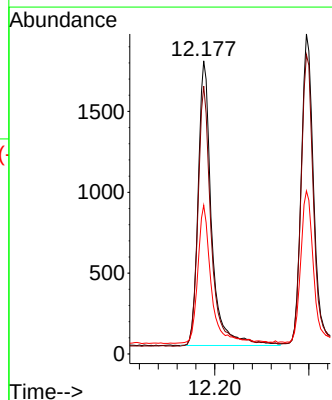
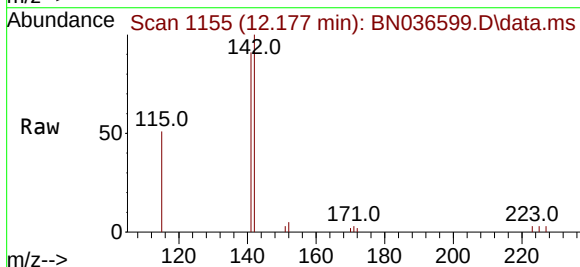
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

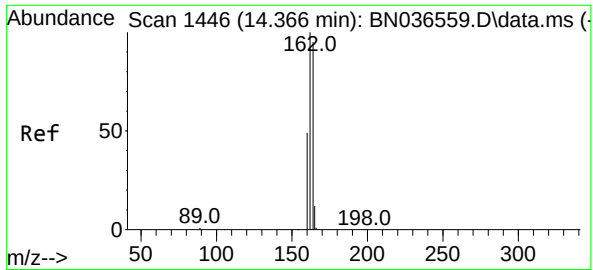
Tgt Ion:152 Resp: 2781
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:142 Resp: 3509
Ion Ratio Lower Upper
142 100
141 91.4 71.7 107.5
115 50.7 38.3 57.5

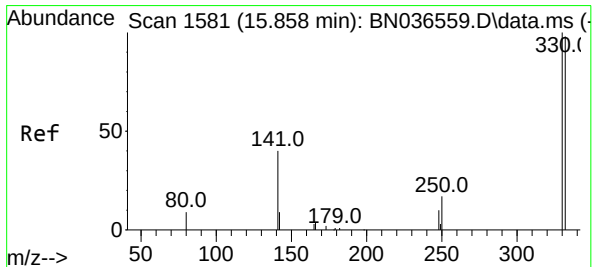
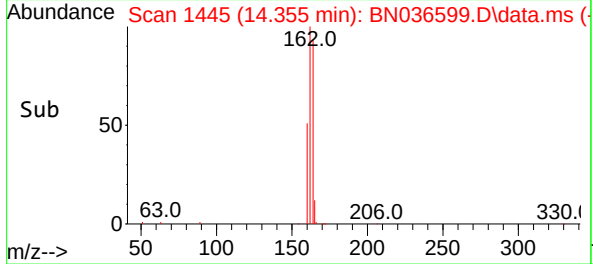
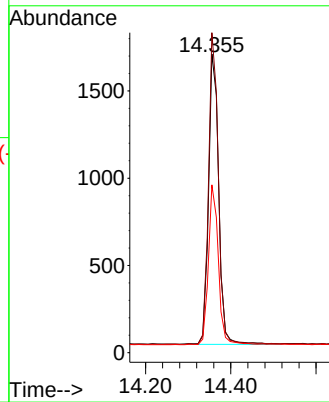
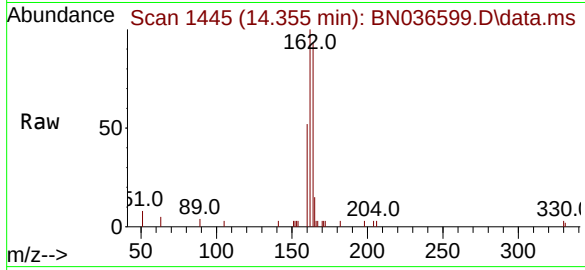




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

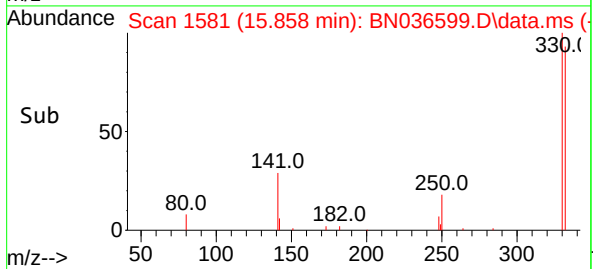
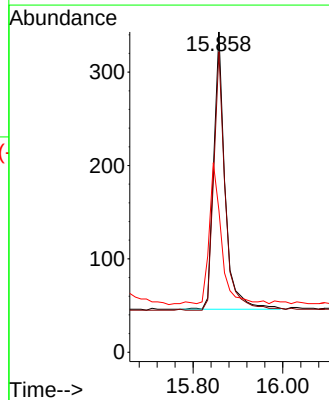
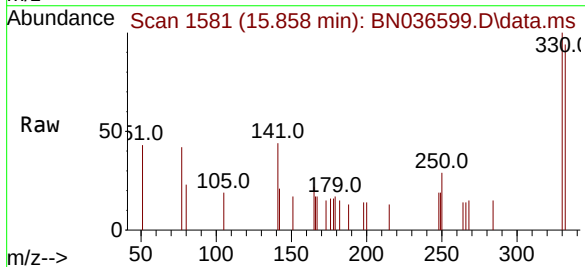
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

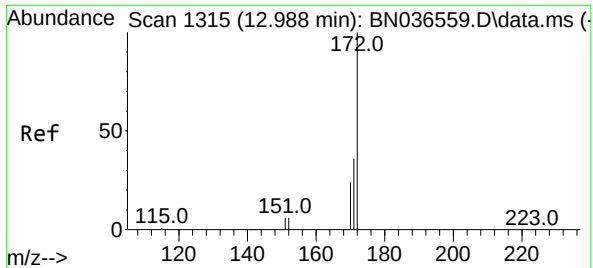
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.1	84.2	126.2
160	56.2	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.420 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.2	112.8
141	54.3	43.4	65.2

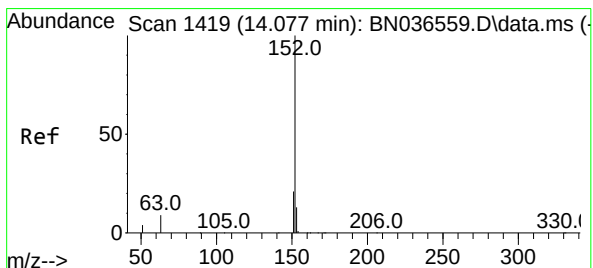
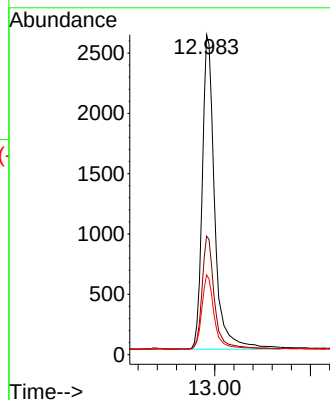
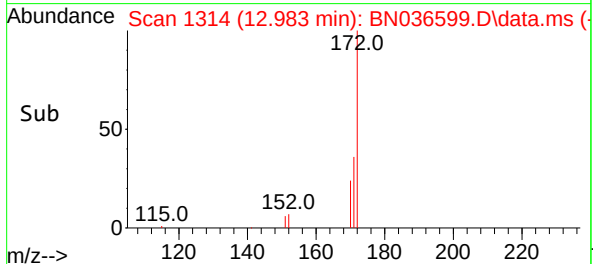
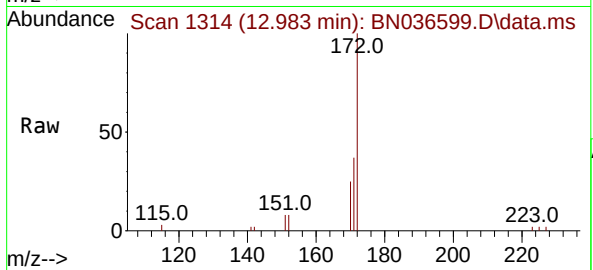




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

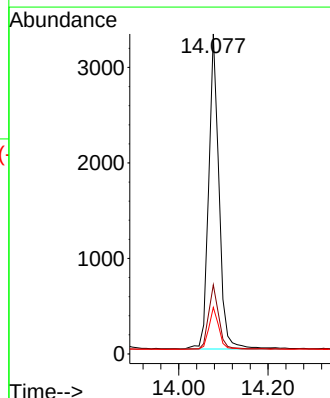
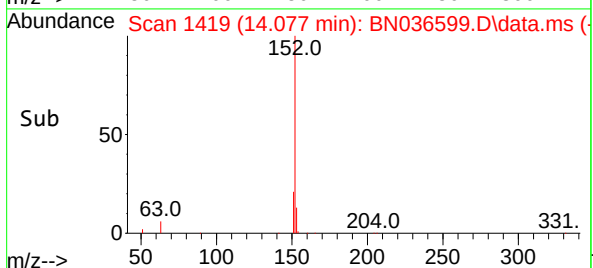
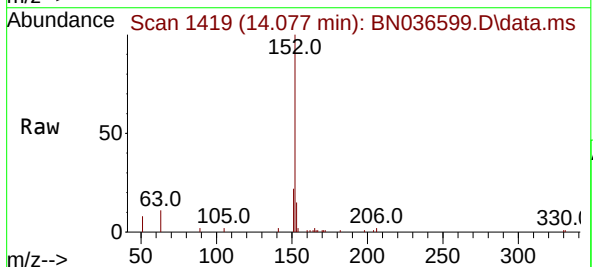
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

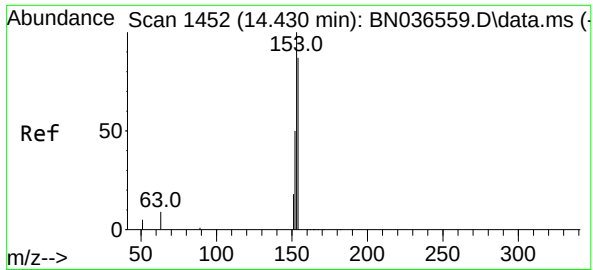
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	24.9	20.2	30.4



#16
Acenaphthylene
Concen: 0.408 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.4	10.6	15.8

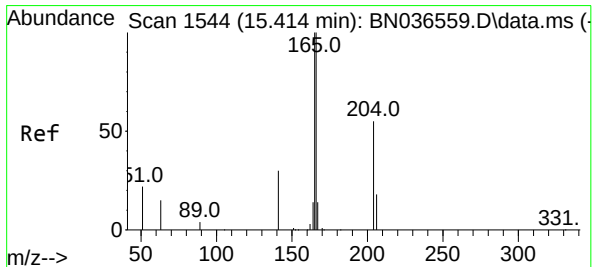
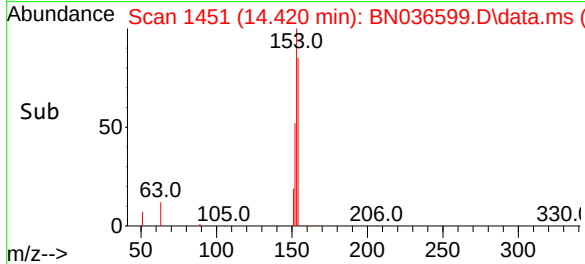
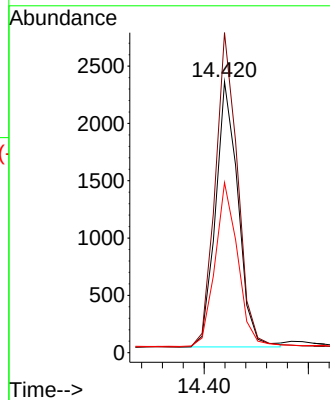
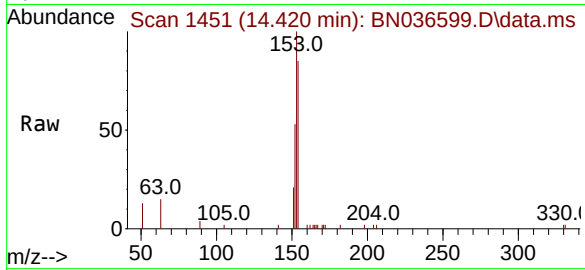




#17
Acenaphthene
Concen: 0.410 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

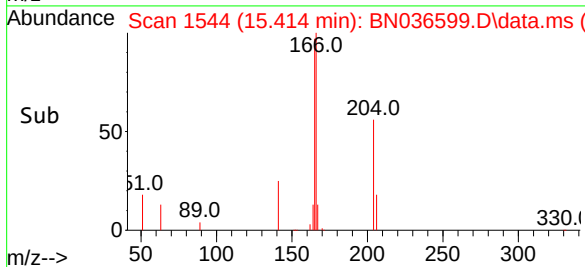
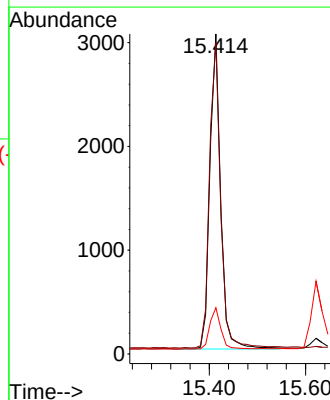
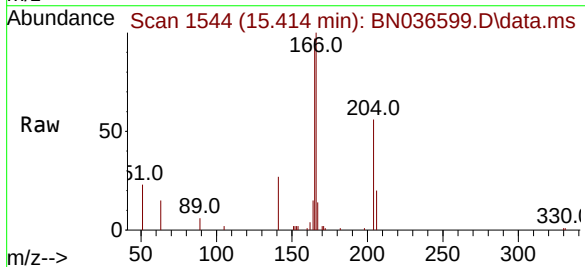
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

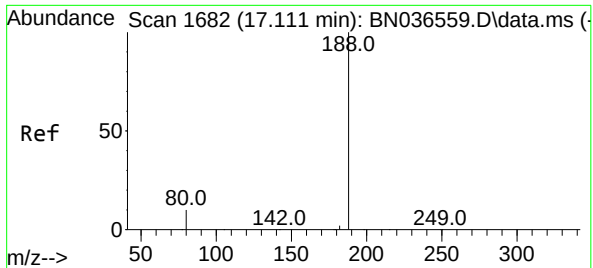
Tgt Ion:154 Resp: 3472
Ion Ratio Lower Upper
154 100
153 119.3 94.1 141.1
152 62.8 49.8 74.6



#18
Fluorene
Concen: 0.421 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:166 Resp: 4821
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.8
167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

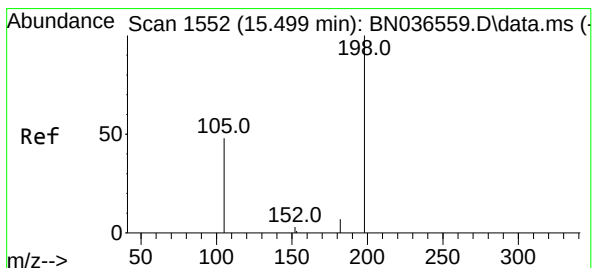
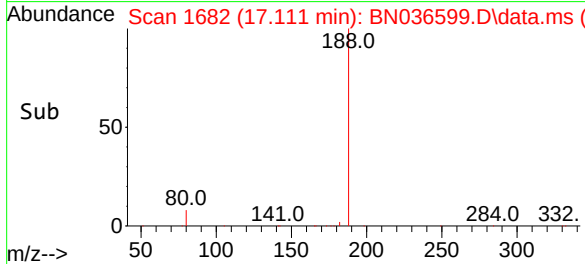
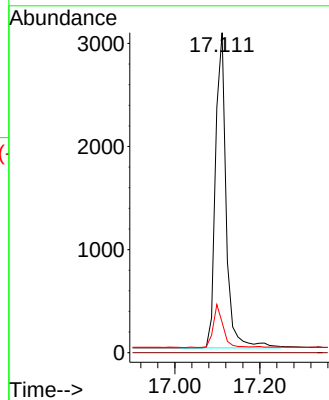
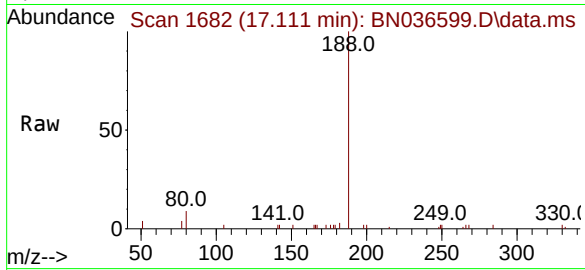
Tgt Ion:188 Resp: 5315

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.456 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

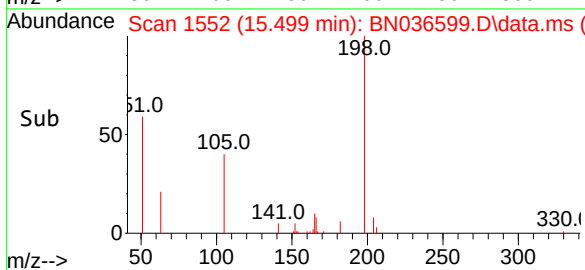
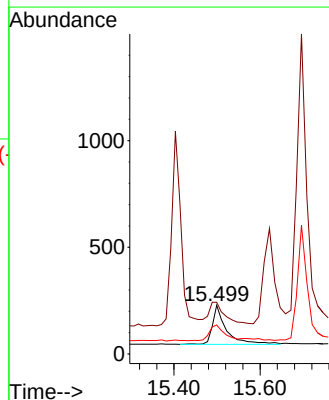
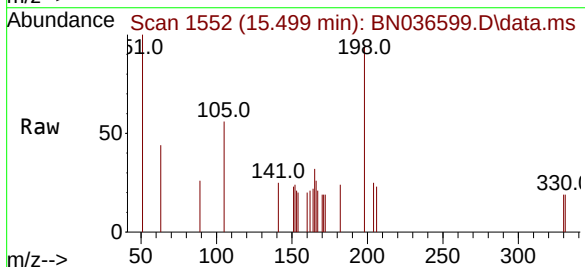
Tgt Ion:198 Resp: 422

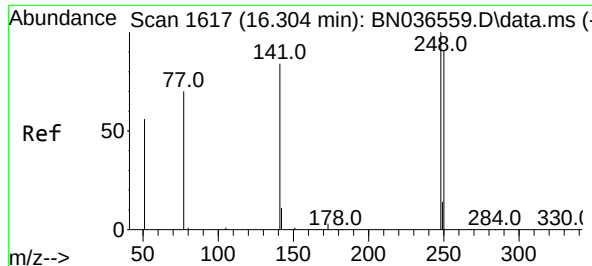
Ion Ratio Lower Upper

198 100

51 106.1 107.9 161.9#

105 59.6 56.2 84.2

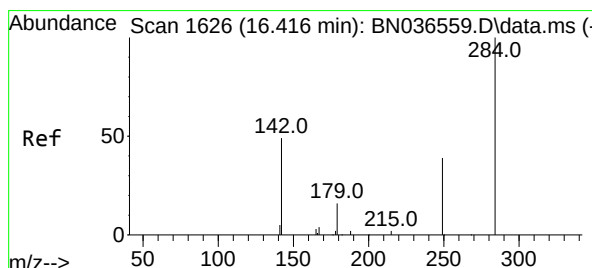
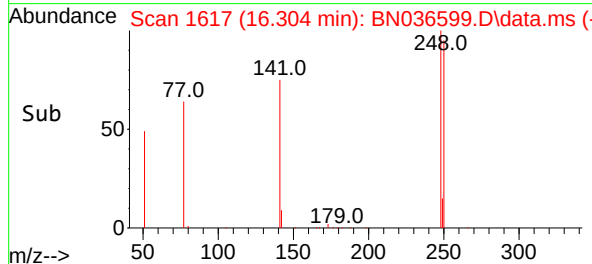
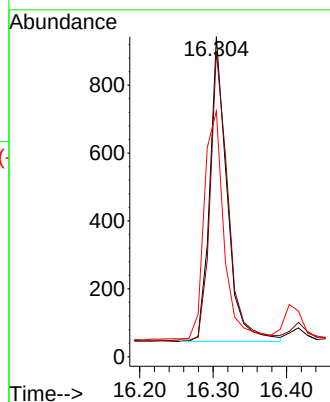
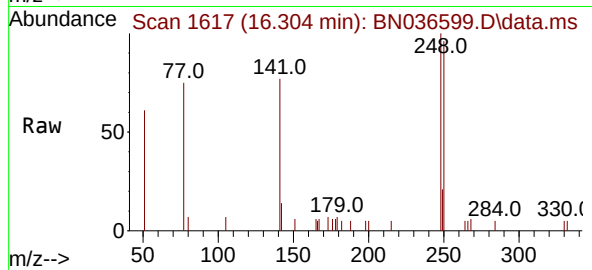




#21
4-Bromophenyl-phenylether
Concen: 0.442 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

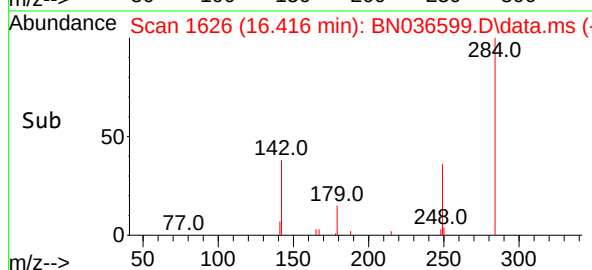
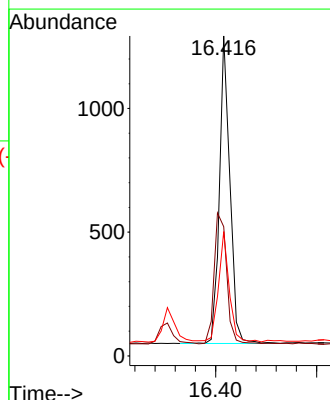
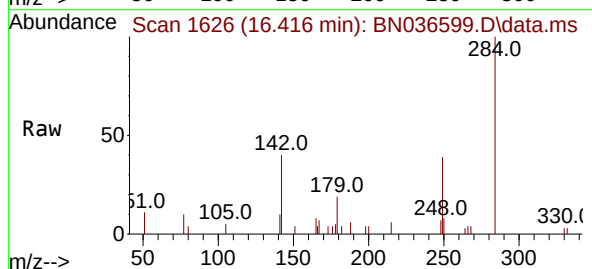
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

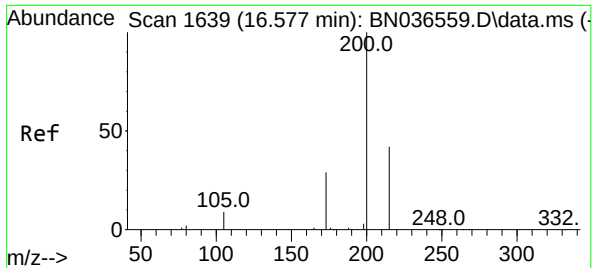
Tgt Ion:	248	Resp:	1471
Ion Ratio	Lower	Upper	
248	100		
250	95.5	73.0	109.6
141	76.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:	284	Resp:	1775
Ion Ratio	Lower	Upper	
284	100		
142	51.2	37.0	55.4
249	36.8	28.1	42.1

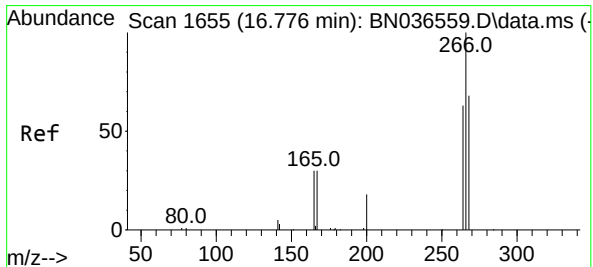
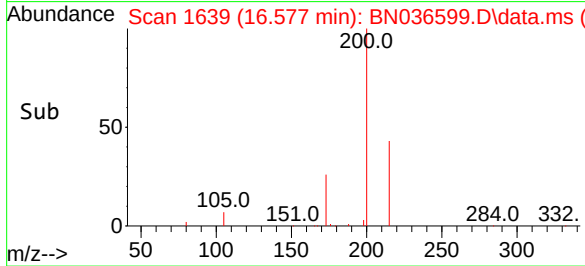
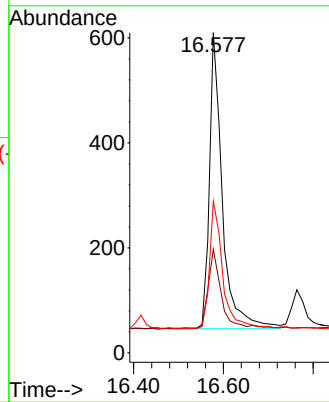
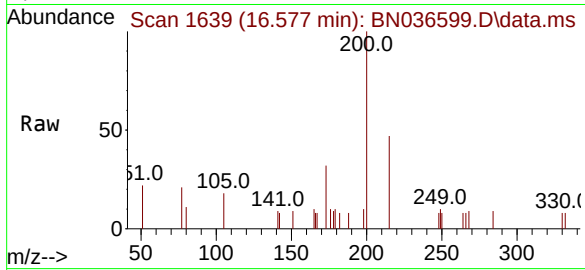




#23
Atrazine
Concen: 0.422 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

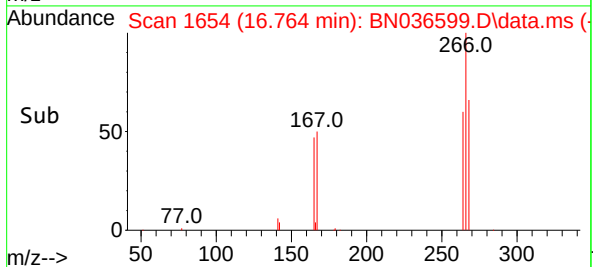
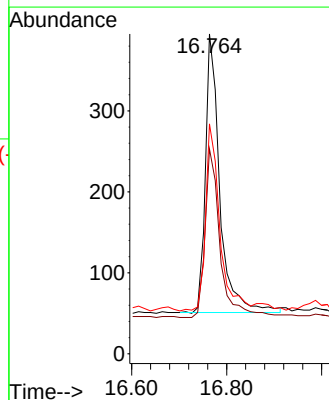
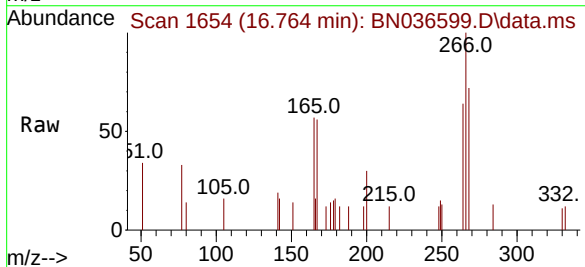
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

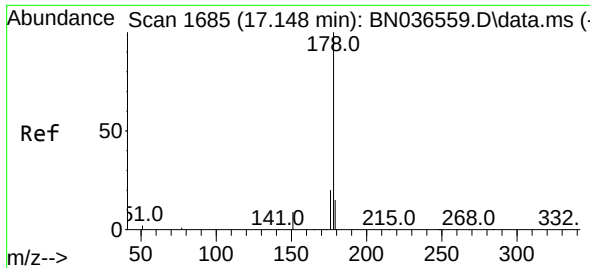
Tgt Ion:200 Resp: 1127
Ion Ratio Lower Upper
200 100
173 32.3 27.3 40.9
215 47.4 36.8 55.2



#24
Pentachlorophenol
Concen: 0.397 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:266 Resp: 728
Ion Ratio Lower Upper
266 100
264 63.2 49.6 74.4
268 65.9 50.9 76.3

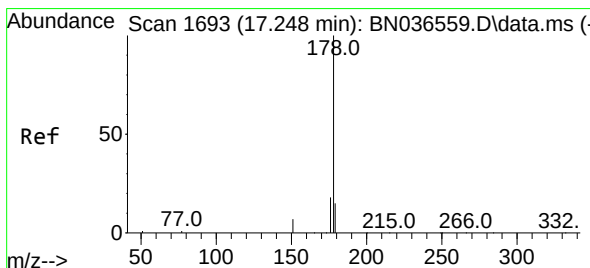
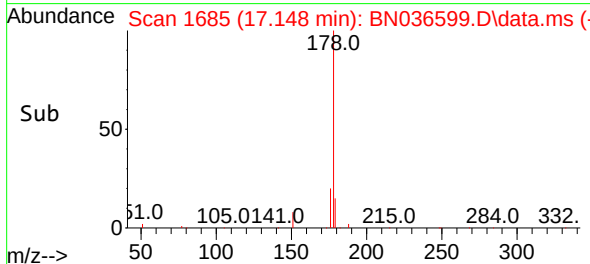
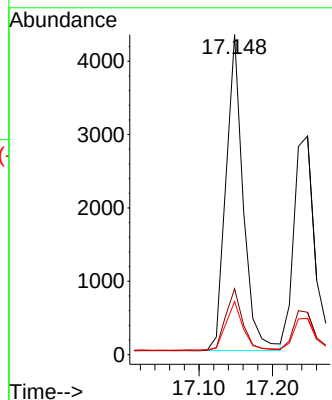
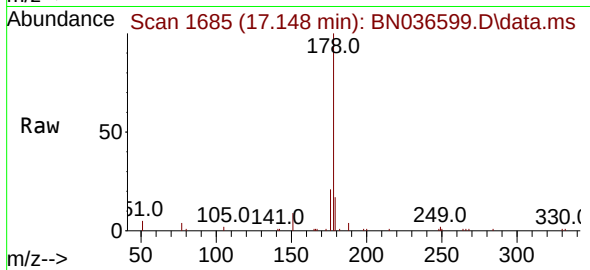




#25
Phenanthrene
Concen: 0.439 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

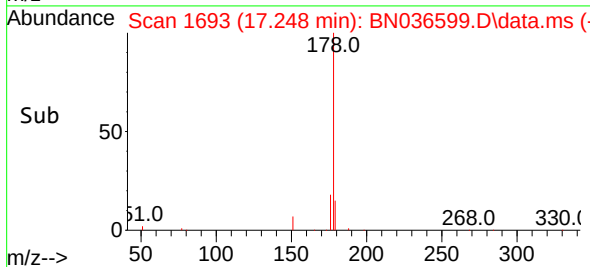
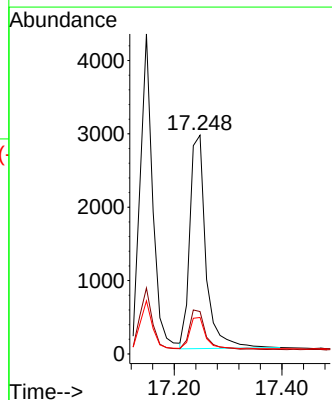
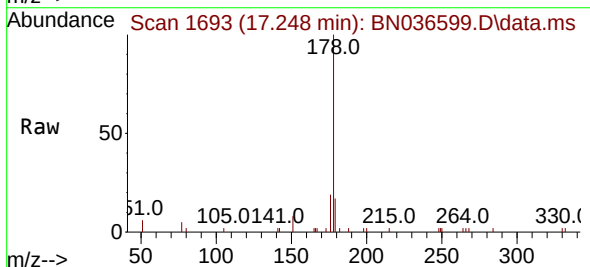
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

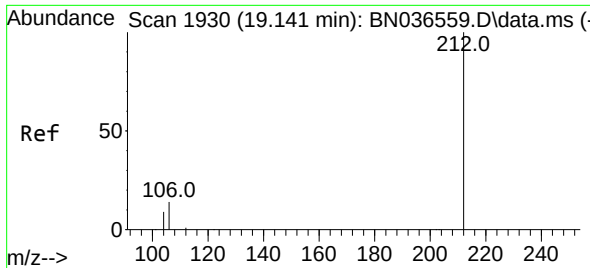
Tgt Ion:178 Resp: 6995
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.6 12.2 18.4



#26
Anthracene
Concen: 0.420 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:178 Resp: 6038
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 14.8 12.6 18.8

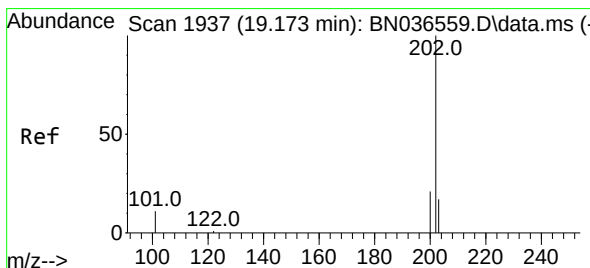
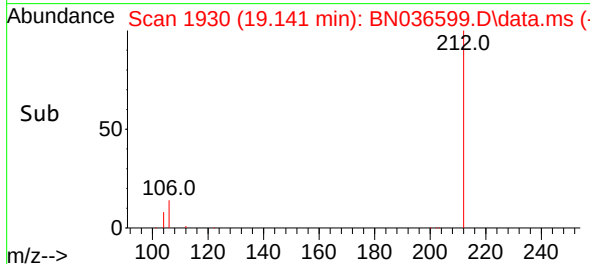
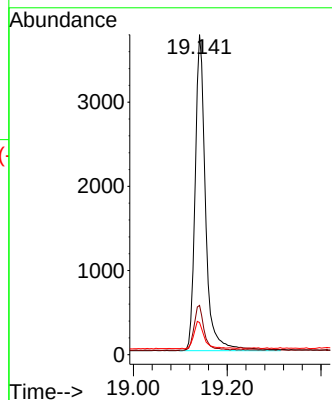
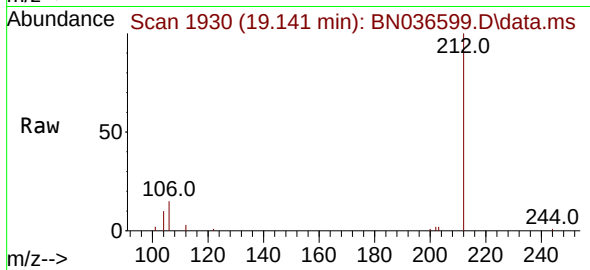




#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

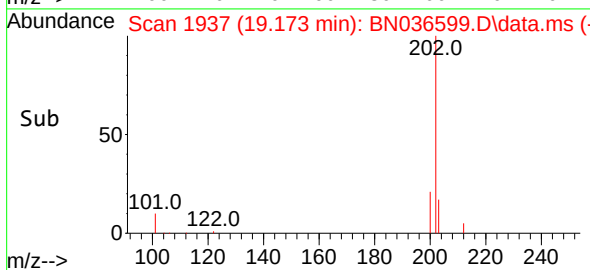
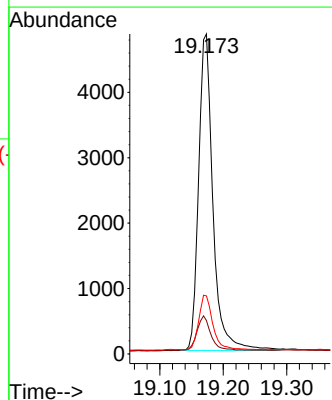
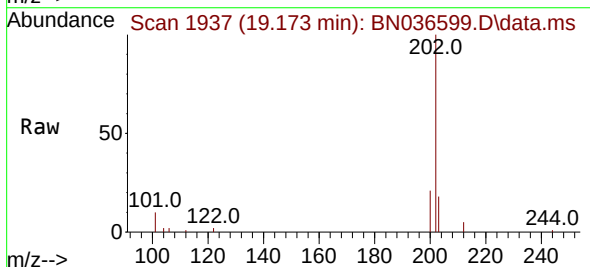
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

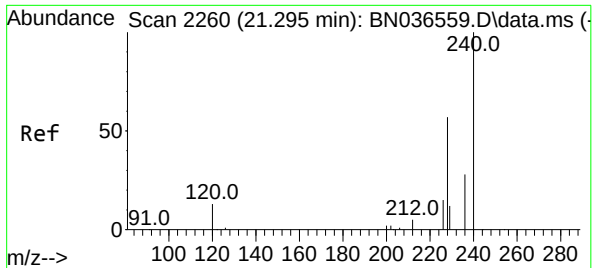
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.8	17.6
104	8.4	7.3	10.9



#28
Fluoranthene
Concen: 0.424 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.0	13.5	20.3

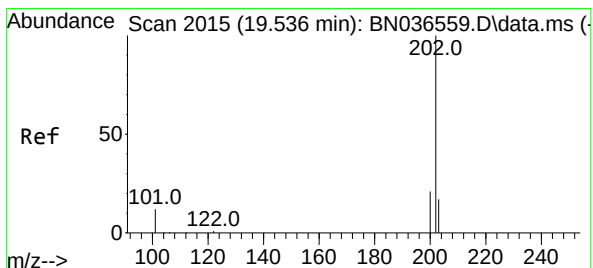
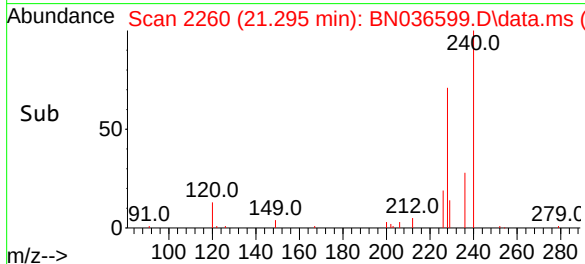
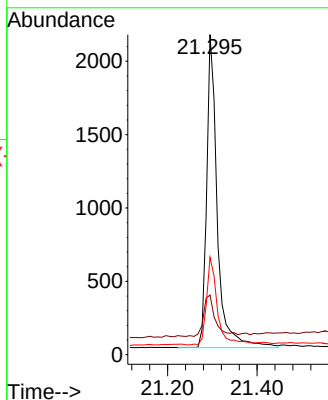
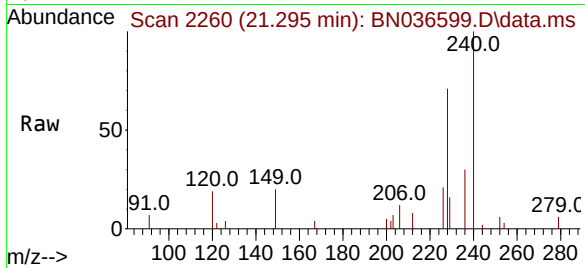




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

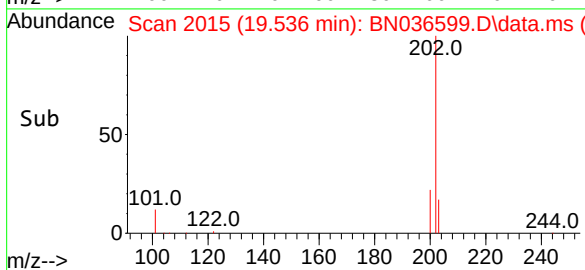
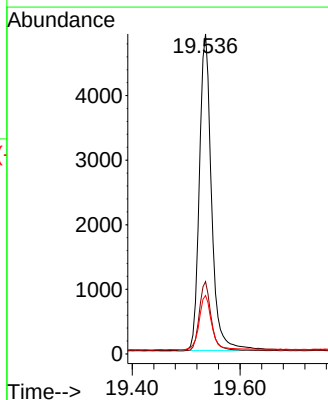
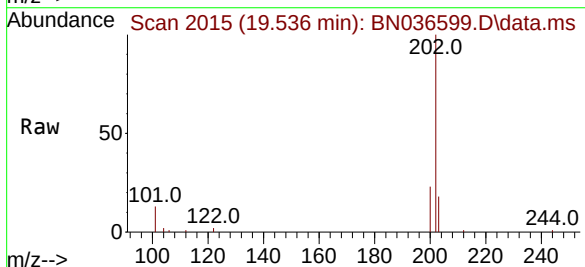
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

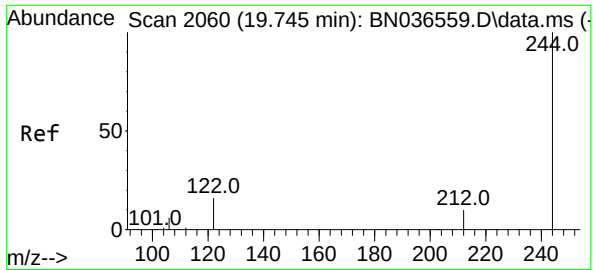
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.7	14.6	22.0
236	30.4	24.1	36.1



#30
Pyrene
Concen: 0.447 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	17.9	14.1	21.1

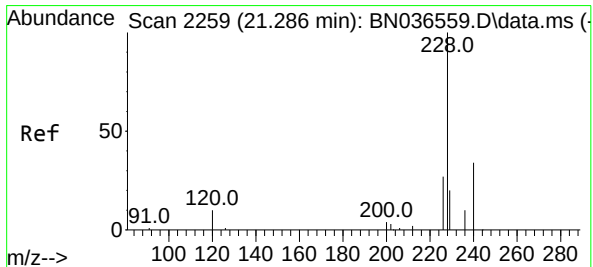
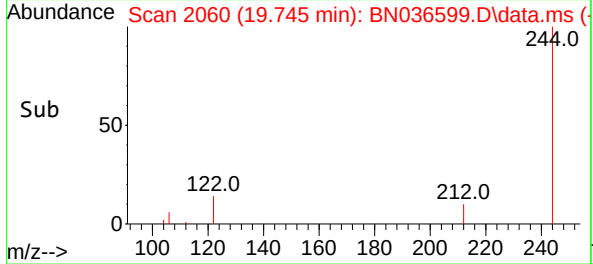
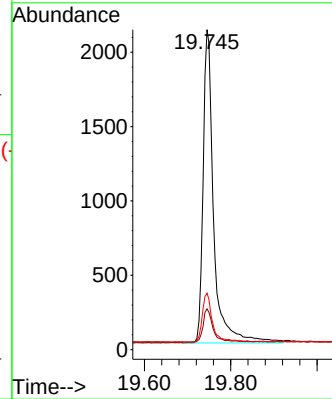
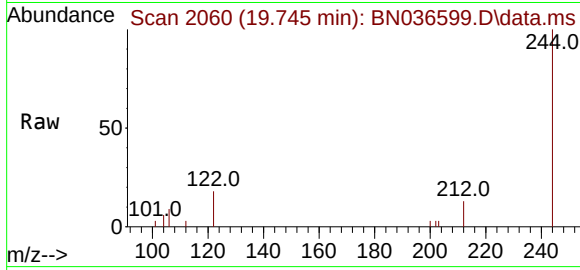




#31
Terphenyl-d14
Concen: 0.425 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

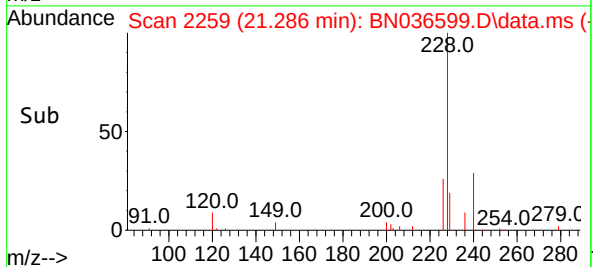
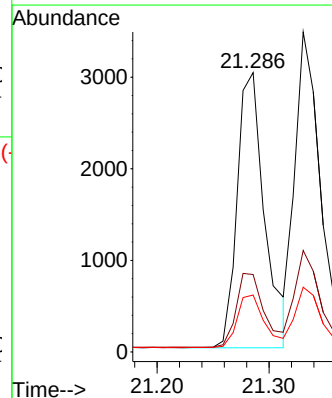
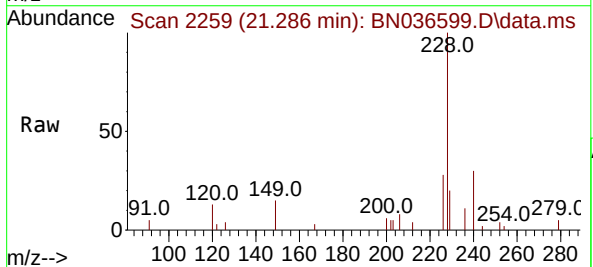
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

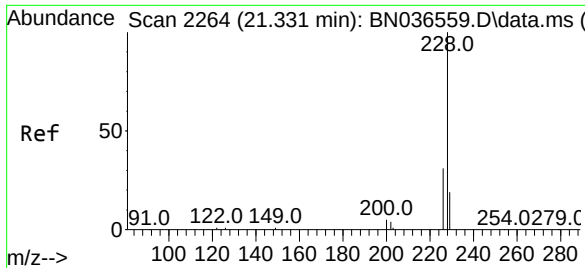
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.6	14.4
122	17.6	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.5	33.7
229	20.4	16.6	25.0

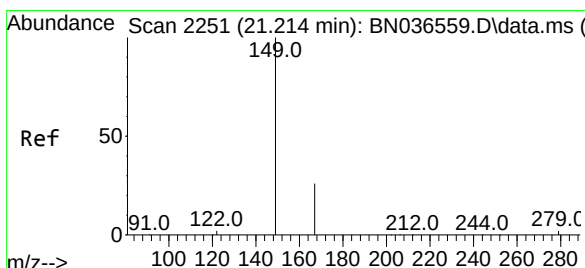
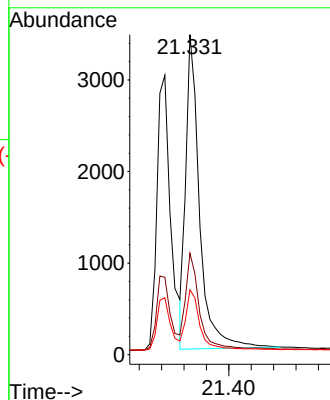
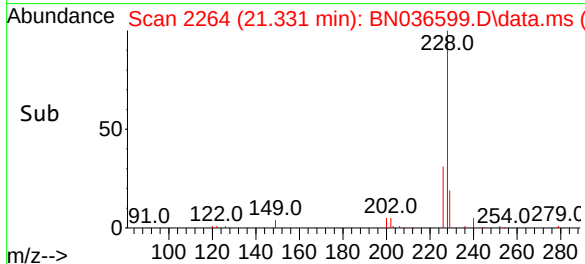
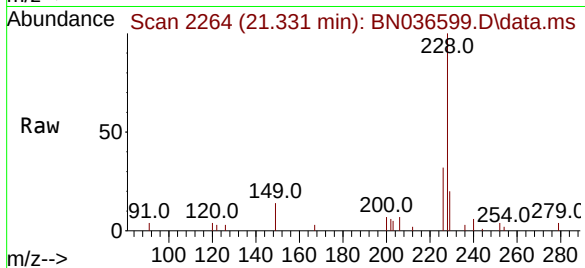




#33
Chrysene
Concen: 0.440 ng
RT: 21.331 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

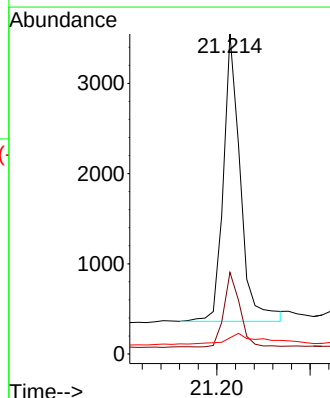
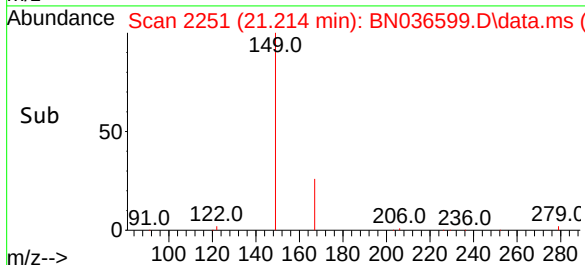
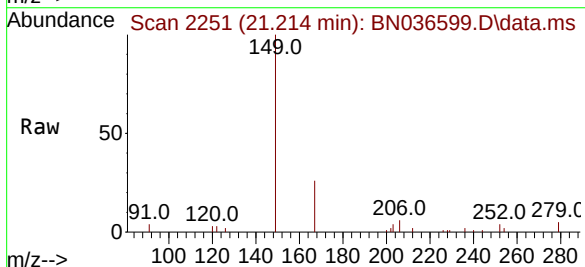
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

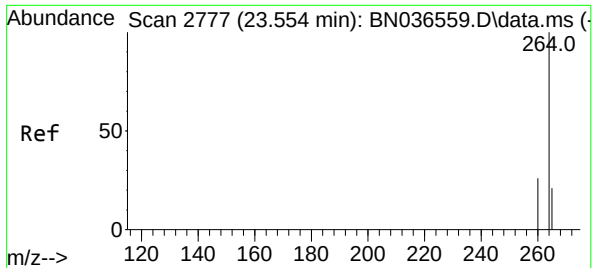
Tgt Ion:	228	Resp:	5894
Ion Ratio	Lower	Upper	
228	100		
226	31.7	25.3	37.9
229	20.2	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.462 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:	149	Resp:	4026
Ion Ratio	Lower	Upper	
149	100		
167	24.2	20.7	31.1
279	6.9	3.6	5.4

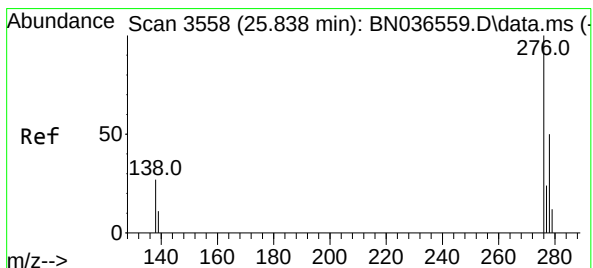
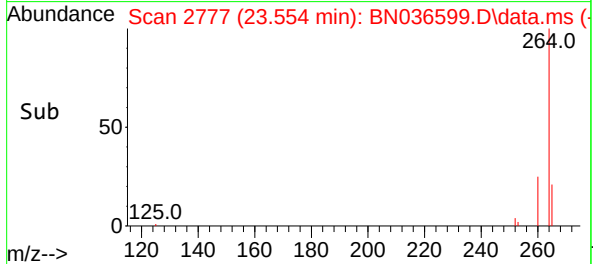
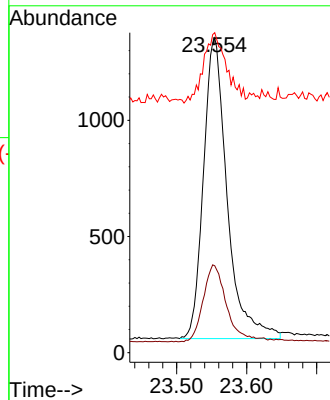
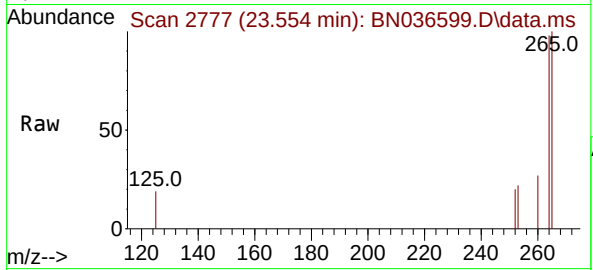




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

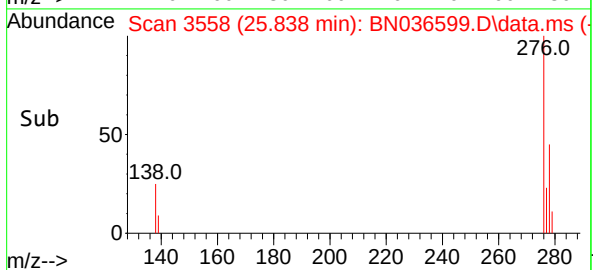
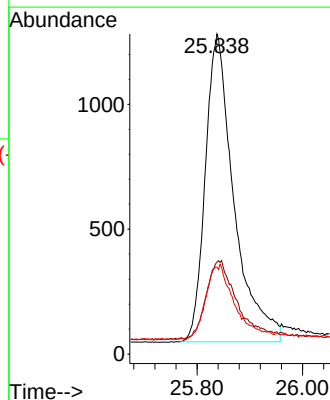
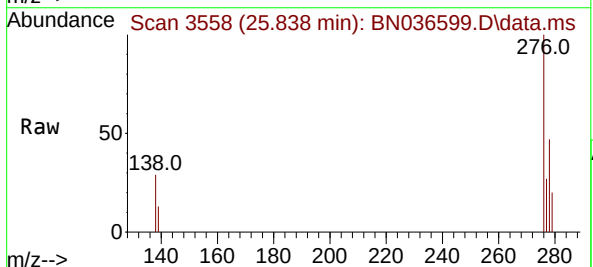
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

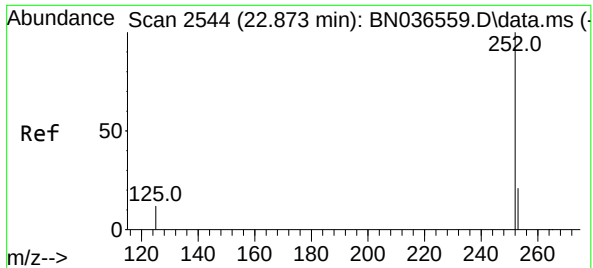
Tgt Ion:264 Resp: 3048
Ion Ratio Lower Upper
264 100
260 27.6 22.6 33.8
265 101.7 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.422 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:276 Resp: 4646
Ion Ratio Lower Upper
276 100
138 27.0 23.4 35.2
277 24.7 20.0 30.0

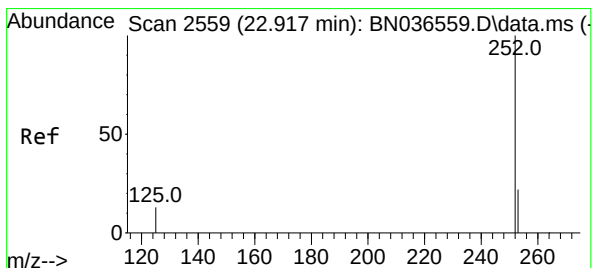
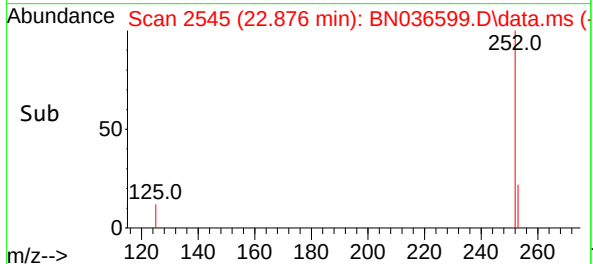
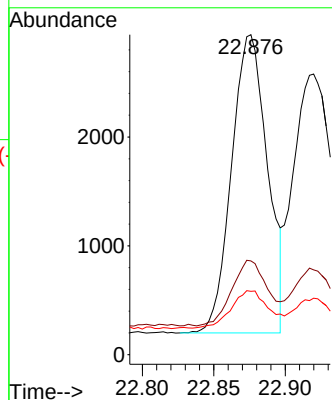
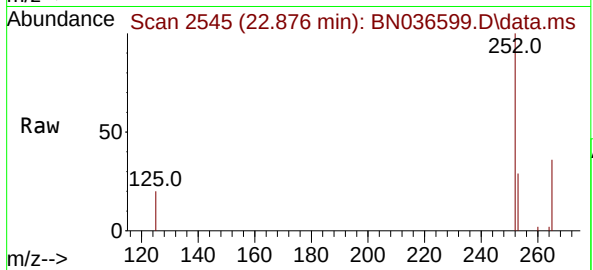




#37
Benzo(b)fluoranthene
Concen: 0.432 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

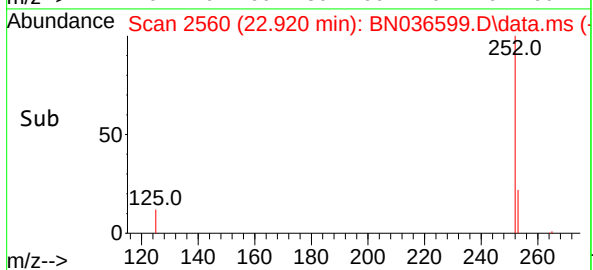
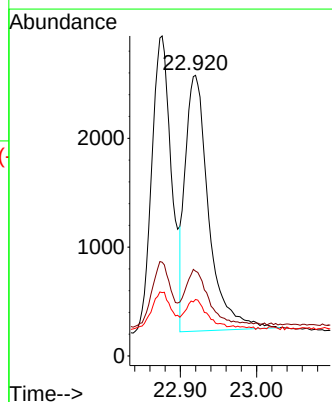
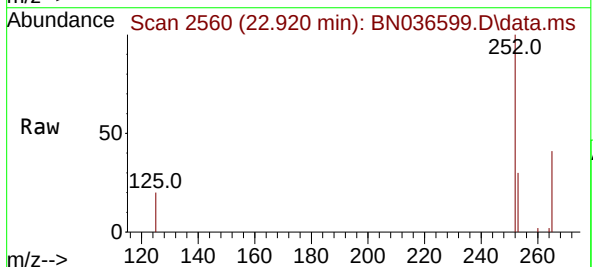
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

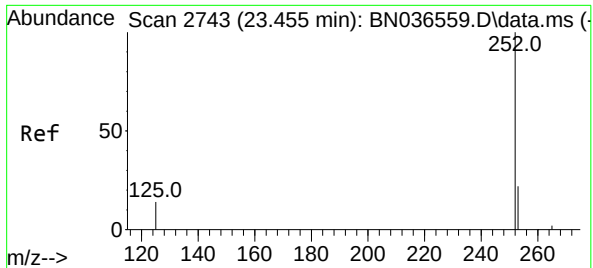
Tgt Ion:252 Resp: 4787
Ion Ratio Lower Upper
252 100
253 29.3 23.9 35.9
125 19.8 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.431 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.003 min
Lab File: BN036599.D
Acq: 12 Mar 2025 14:39

Tgt Ion:252 Resp: 5015
Ion Ratio Lower Upper
252 100
253 30.2 24.6 36.8
125 20.1 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

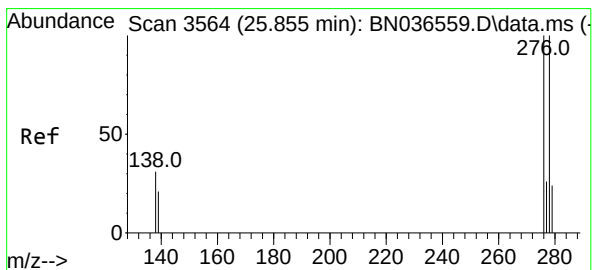
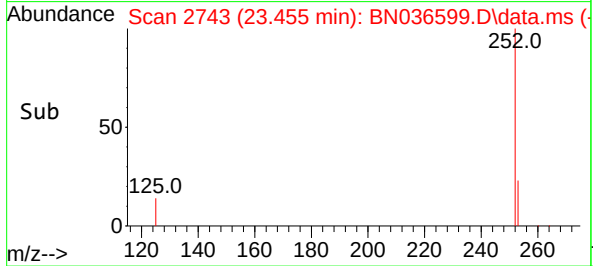
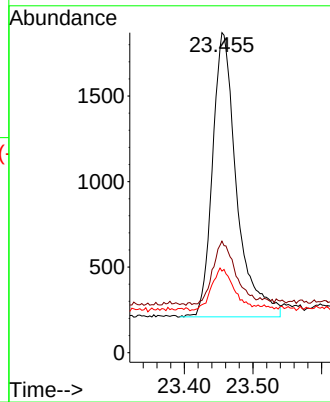
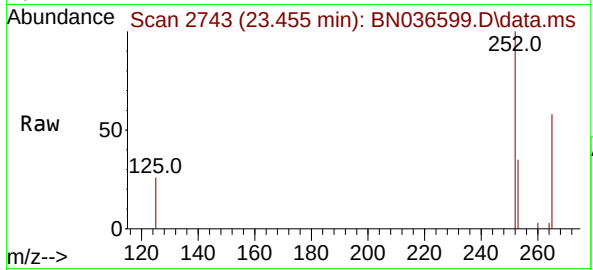
Tgt Ion:252 Resp: 4056

Ion Ratio Lower Upper

252 100

253 34.9 27.8 41.8

125 25.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.852 min Scan# 3563

Delta R.T. -0.003 min

Lab File: BN036599.D

Acq: 12 Mar 2025 14:39

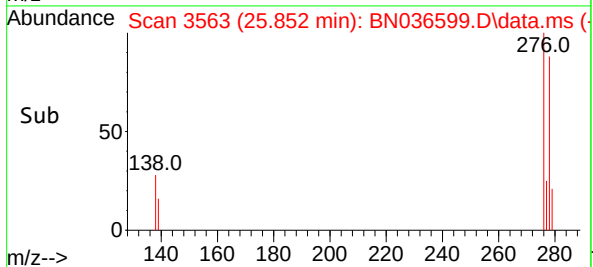
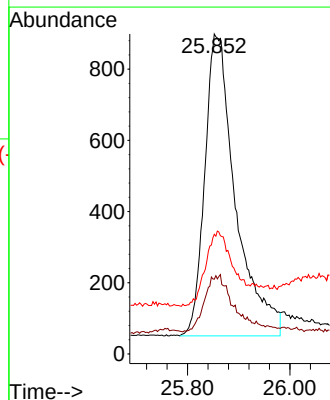
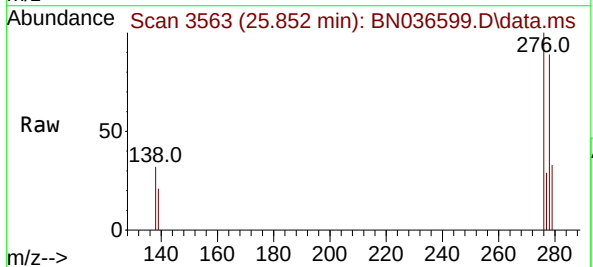
Tgt Ion:278 Resp: 3545

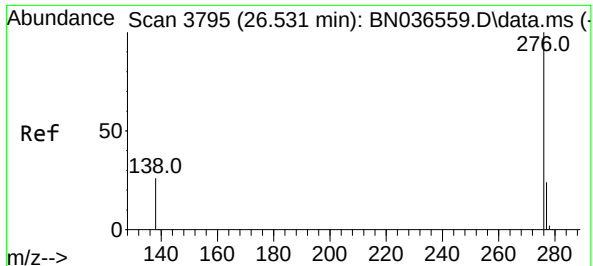
Ion Ratio Lower Upper

278 100

139 23.4 20.8 31.2

279 37.4 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.438 ng

RT: 26.531 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036599.D

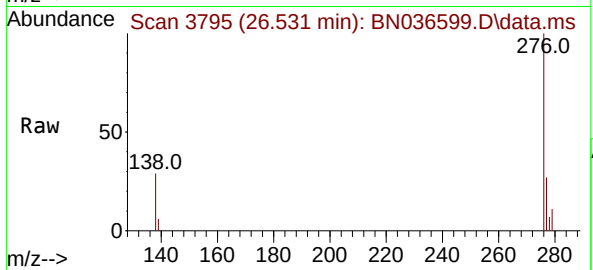
Acq: 12 Mar 2025 14:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



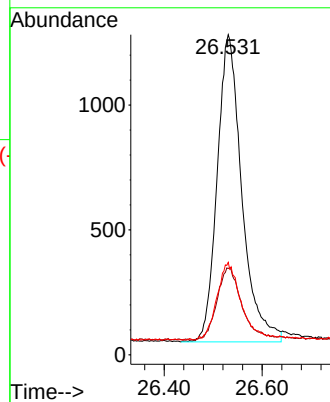
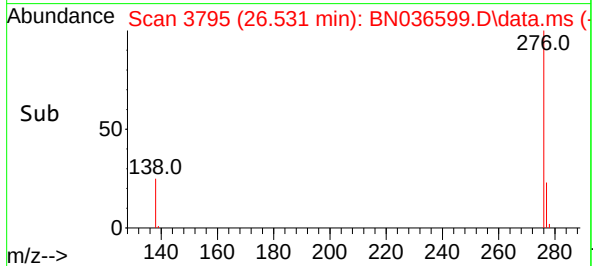
Tgt Ion:276 Resp: 4295

Ion Ratio Lower Upper

276 100

277 27.0 22.2 33.4

138 28.9 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
 Data File : BN036599.D
 Acq On : 12 Mar 2025 14:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 12 15:13:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	97	0.00
2	1,4-Dioxane	0.444	0.504	-13.5	98	0.00
3	n-Nitrosodimethylamine	0.898	0.969	-7.9	101	0.00
4 S	2-Fluorophenol	0.932	0.958	-2.8	94	0.00
5 S	Phenol-d6	1.152	1.129	2.0	97	0.00
6	bis(2-Chloroethyl)ether	1.190	1.183	0.6	97	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
8 S	Nitrobenzene-d5	0.435	0.442	-1.6	102	-0.01
9	Naphthalene	1.177	1.157	1.7	92	-0.01
10	Hexachlorobutadiene	0.277	0.279	-0.7	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.568	4.5	90	-0.01
12	2-Methylnaphthalene	0.749	0.717	4.3	90	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	91	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.191	-4.9	92	0.00
15 S	2-Fluorobiphenyl	2.327	2.369	-1.8	89	0.00
16	Acenaphthylene	1.888	1.927	-2.1	90	0.00
17	Acenaphthene	1.236	1.267	-2.5	90	-0.01
18	Fluorene	1.672	1.759	-5.2	90	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.079	8.1	91	0.00
21	4-Bromophenyl-phenylether	0.251	0.277	-10.4	89	0.00
22	Hexachlorobenzene	0.303	0.334	-10.2	88	0.00
23	Atrazine	0.201	0.212	-5.5	88	0.00
24	Pentachlorophenol	0.138	0.137	0.7	89	-0.01
25	Phenanthrene	1.200	1.316	-9.7	90	0.00
26	Anthracene	1.083	1.136	-4.9	88	0.00
27 SURR	Fluoranthene-d10	1.025	1.089	-6.2	86	0.00
28	Fluoranthene	1.348	1.430	-6.1	87	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	86	0.00
30	Pyrene	1.956	2.184	-11.7	88	0.00
31 S	Terphenyl-d14	0.958	1.019	-6.4	85	0.00
32	Benzo(a)anthracene	1.391	1.451	-4.3	86	0.00
33	Chrysene	1.520	1.673	-10.1	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.143	-15.5	94	0.00
35 I	Perylene-d12	1.000	1.000	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.524	-5.5	85	0.00
37	Benzo(b)fluoranthene	1.456	1.571	-7.9	87	0.00
38	Benzo(k)fluoranthene	1.527	1.645	-7.7	87	0.00
39 C	Benzo(a)pyrene	1.226	1.331	-8.6	88	0.00
40	Dibenzo(a,h)anthracene	1.124	1.163	-3.5	86	0.00
41	Benzo(g,h,i)perylene	1.286	1.409	-9.6	88	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
 Data File : BN036599.D
 Acq On : 12 Mar 2025 14:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 12 15:13:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	97	0.00
2	1,4-Dioxane	0.400	0.454	-13.5	98	0.00
3	n-Nitrosodimethylamine	0.400	0.432	-8.0	101	0.00
4 S	2-Fluorophenol	0.400	0.411	-2.7	94	0.00
5 S	Phenol-d6	0.400	0.392	2.0	97	0.00
6	bis(2-Chloroethyl)ether	0.400	0.397	0.8	97	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	96	0.00
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	102	-0.01
9	Naphthalene	0.400	0.393	1.8	92	-0.01
10	Hexachlorobutadiene	0.400	0.403	-0.8	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.382	4.5	90	-0.01
12	2-Methylnaphthalene	0.400	0.383	4.3	90	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	91	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.420	-5.0	92	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	89	0.00
16	Acenaphthylene	0.400	0.408	-2.0	90	0.00
17	Acenaphthene	0.400	0.410	-2.5	90	-0.01
18	Fluorene	0.400	0.421	-5.2	90	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.456	-14.0	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.442	-10.5	89	0.00
22	Hexachlorobenzene	0.400	0.442	-10.5	88	0.00
23	Atrazine	0.400	0.422	-5.5	88	0.00
24	Pentachlorophenol	0.400	0.397	0.8	89	-0.01
25	Phenanthrene	0.400	0.439	-9.7	90	0.00
26	Anthracene	0.400	0.420	-5.0	88	0.00
27 SURR	Fluoranthene-d10	0.400	0.425	-6.2	86	0.00
28	Fluoranthene	0.400	0.424	-6.0	87	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	86	0.00
30	Pyrene	0.400	0.447	-11.7	88	0.00
31 S	Terphenyl-d14	0.400	0.425	-6.2	85	0.00
32	Benzo(a)anthracene	0.400	0.417	-4.2	86	0.00
33	Chrysene	0.400	0.440	-10.0	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.462	-15.5	94	0.00
35 I	Perylene-d12	0.400	0.400	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.422	-5.5	85	0.00
37	Benzo(b)fluoranthene	0.400	0.432	-8.0	87	0.00
38	Benzo(k)fluoranthene	0.400	0.431	-7.7	87	0.00
39 C	Benzo(a)pyrene	0.400	0.434	-8.5	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.414	-3.5	86	0.00
41	Benzo(g,h,i)perylene	0.400	0.438	-9.5	88	0.00

(#) = Out of Range

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



QC SAMPLE DATA

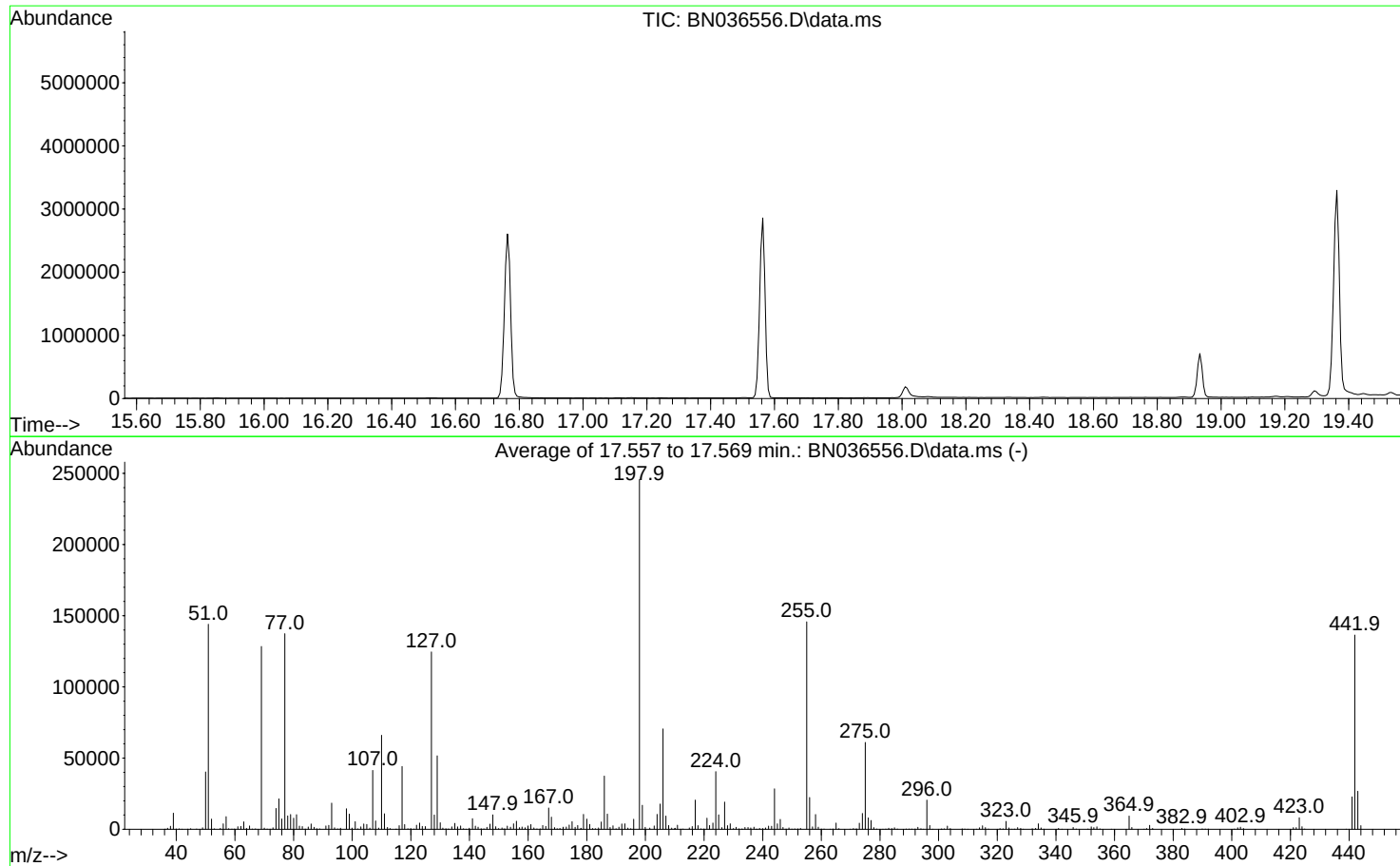
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
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- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

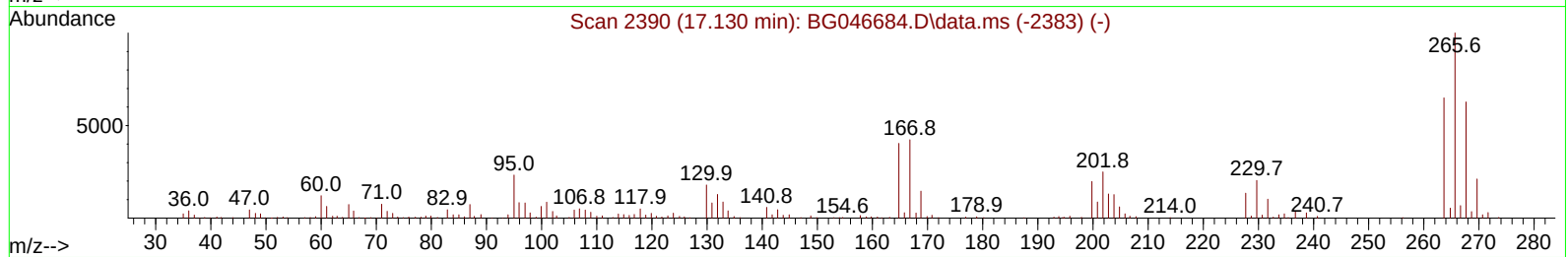
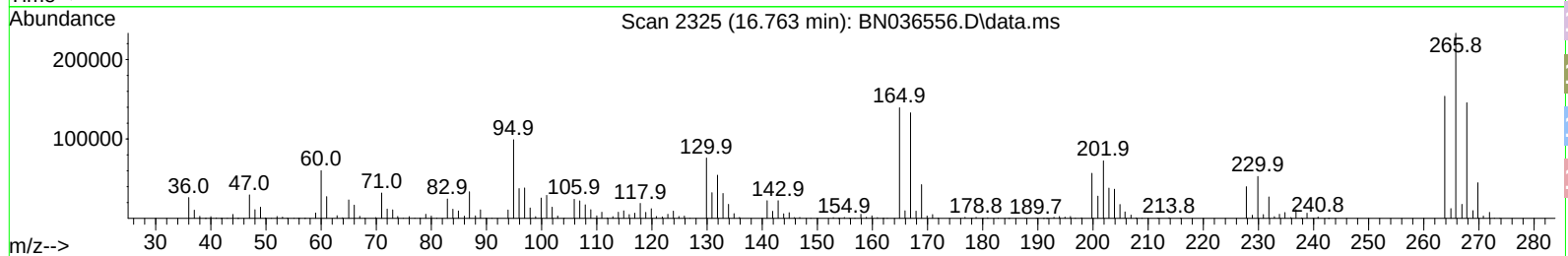
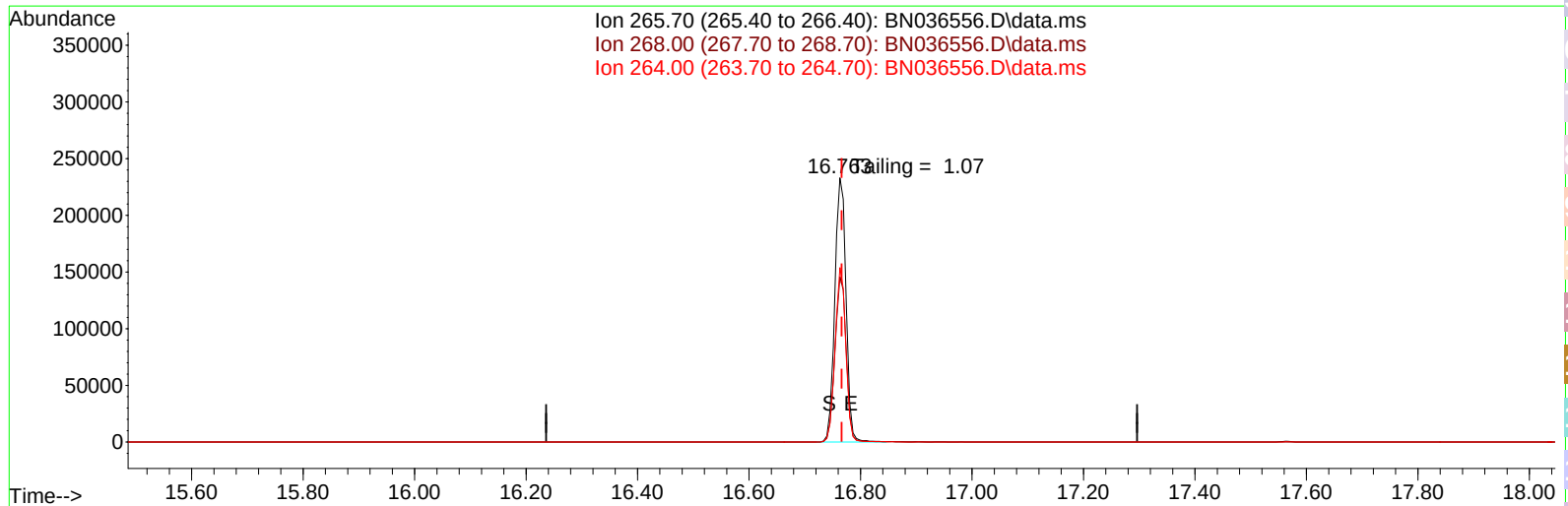
DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	<u>BN036556.D</u>
Compound Name	Response	Retention Time
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

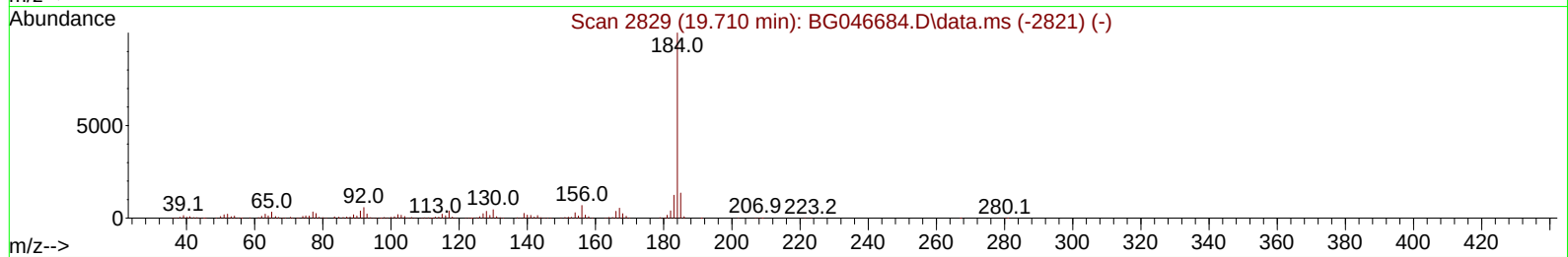
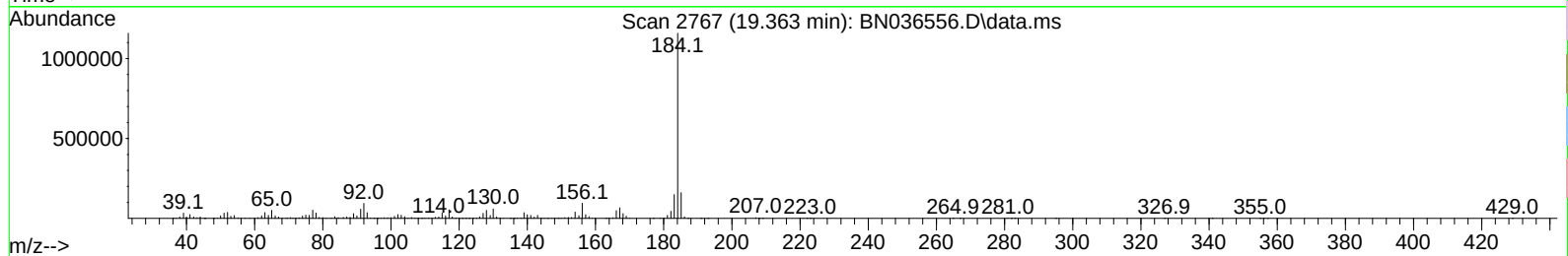
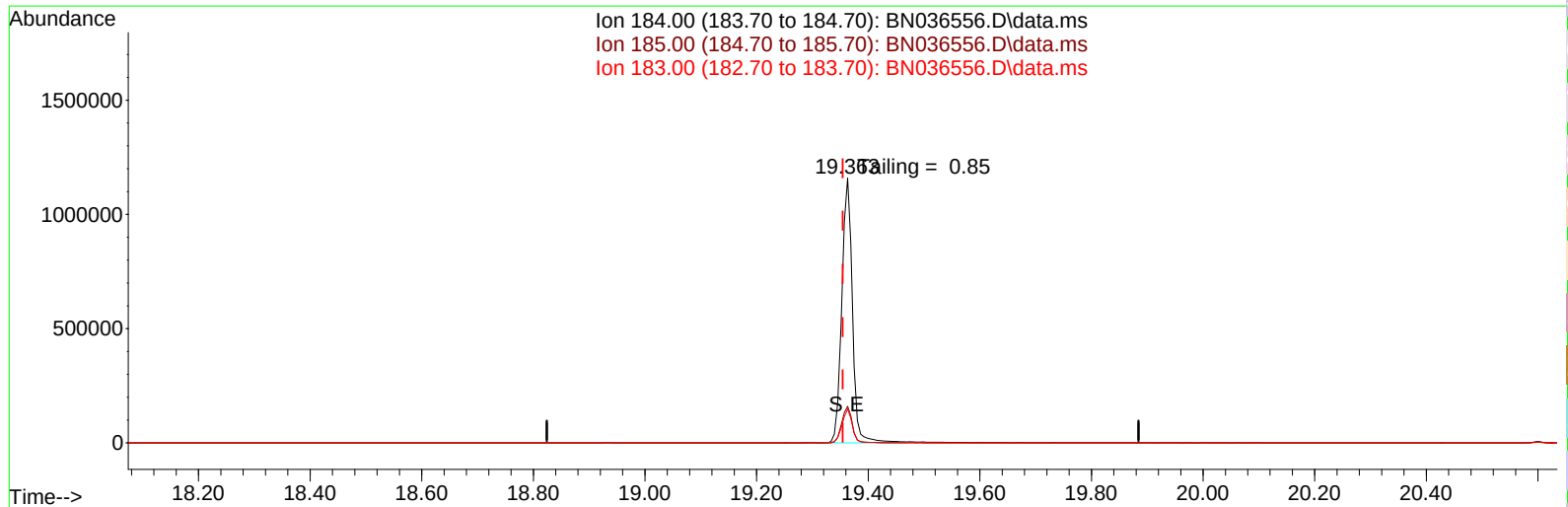
response 323613

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

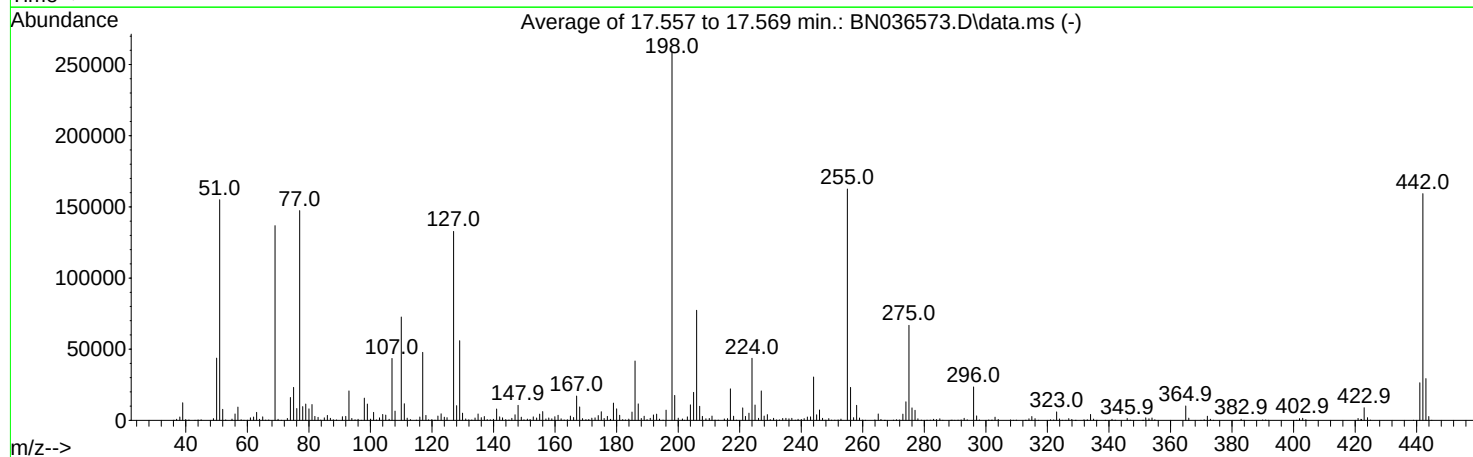
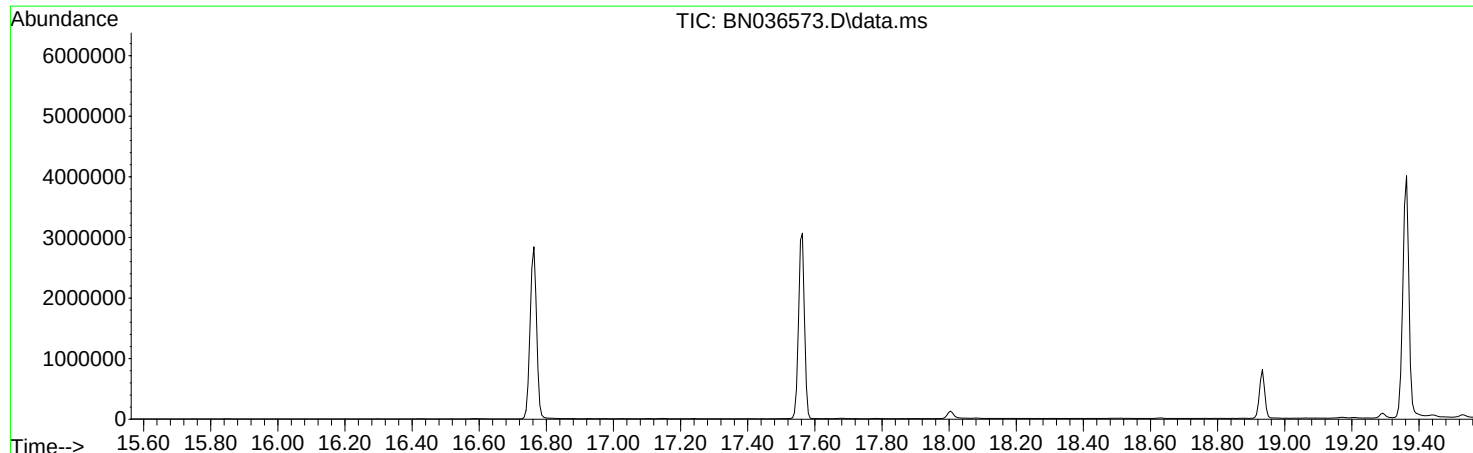
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036573.D
Acq On : 11 Mar 2025 08:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	60.0	155027	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.0	136882	PASS
70	69	0.00	2	0.6	784	PASS
127	198	10	80	51.4	132840	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	258496	PASS
199	198	5	9	6.8	17565	PASS
275	198	10	60	25.8	66808	PASS
365	198	1	100	3.9	10081	PASS
441	198	0.01	100	10.2	26384	PASS
442	442	50	100	100.0	159296	PASS
443	442	15	24	18.4	29344	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

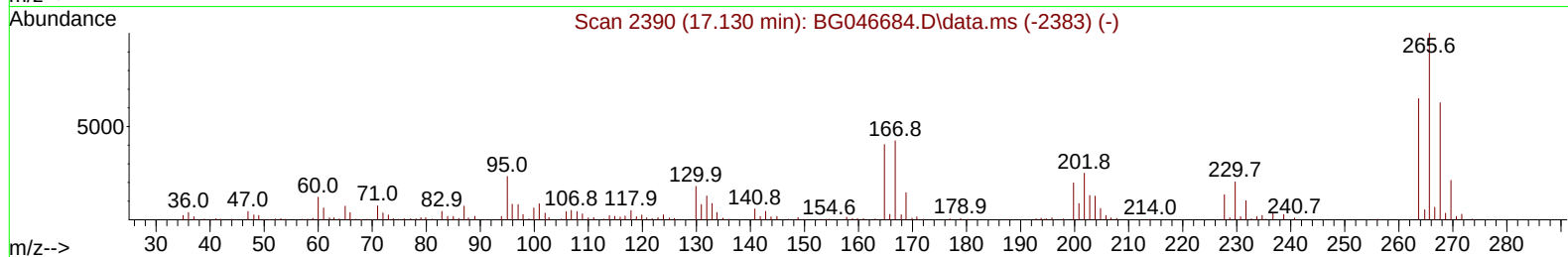
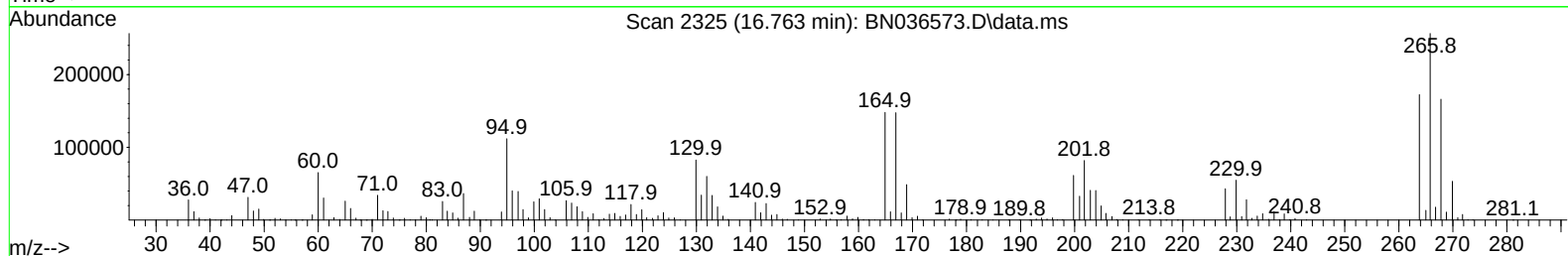
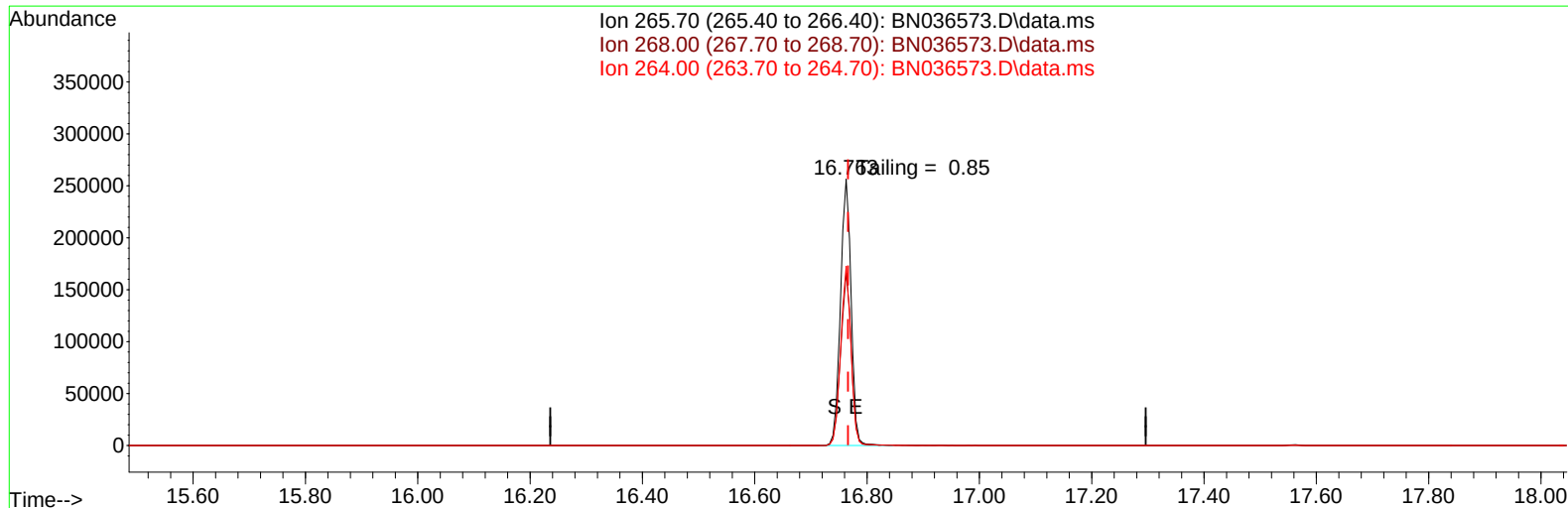
DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/11/2025	BNA_N	<u>BN036573.D</u>
Compound Name	Response	Retention Time
DDT	1170989	20.598
DDD	12216	20.21
DDE	544	19.651
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12760	1183749	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036573.D
Acq On : 11 Mar 2025 08:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 11 17:55:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036573.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 22415.21 ng

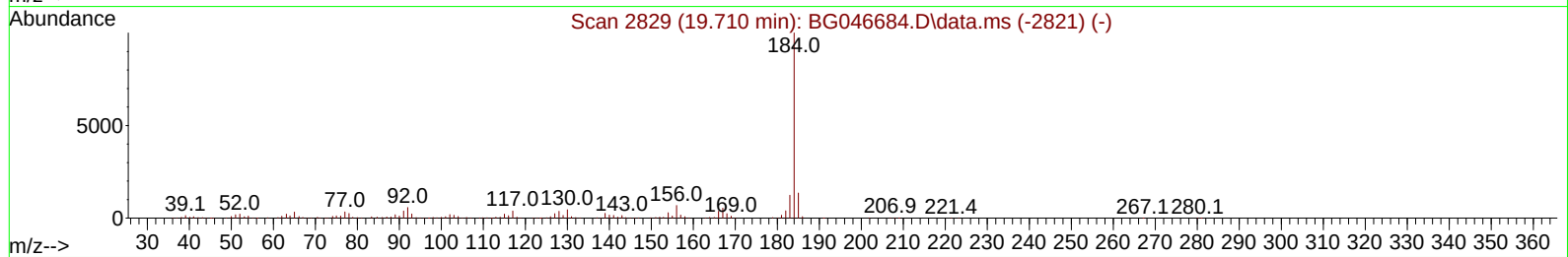
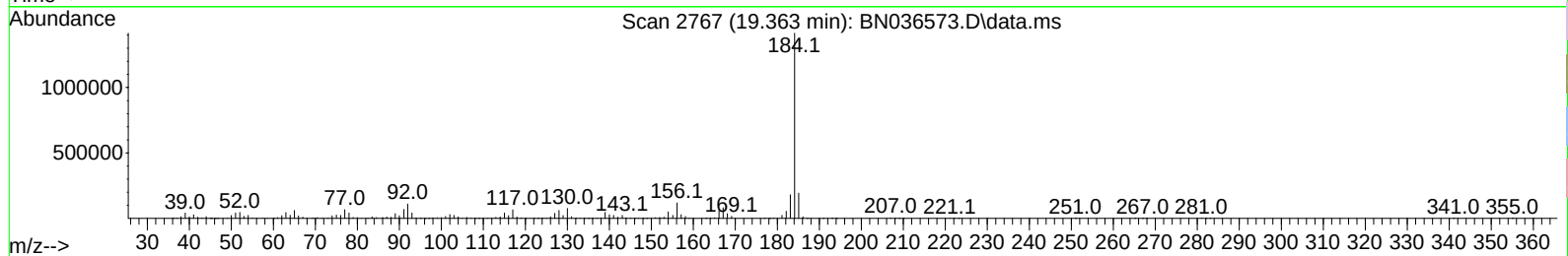
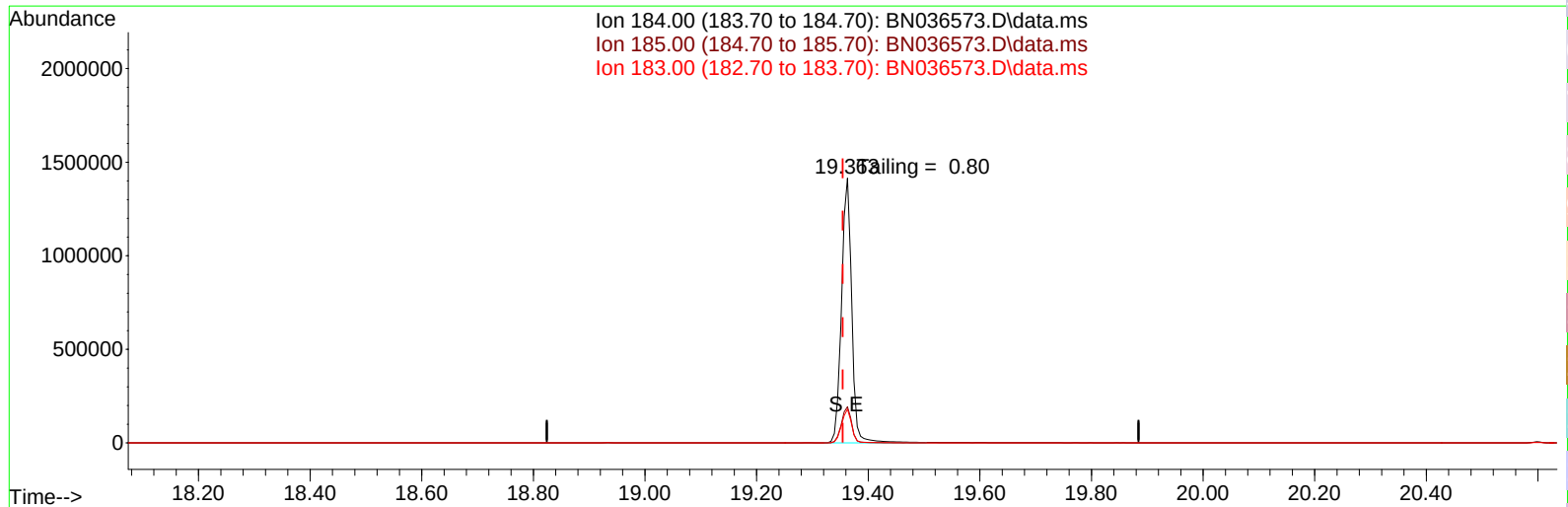
response 337921

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.83
264.00	61.60	67.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036573.D
Acq On : 11 Mar 2025 08:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 11 17:55:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036573.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1813573

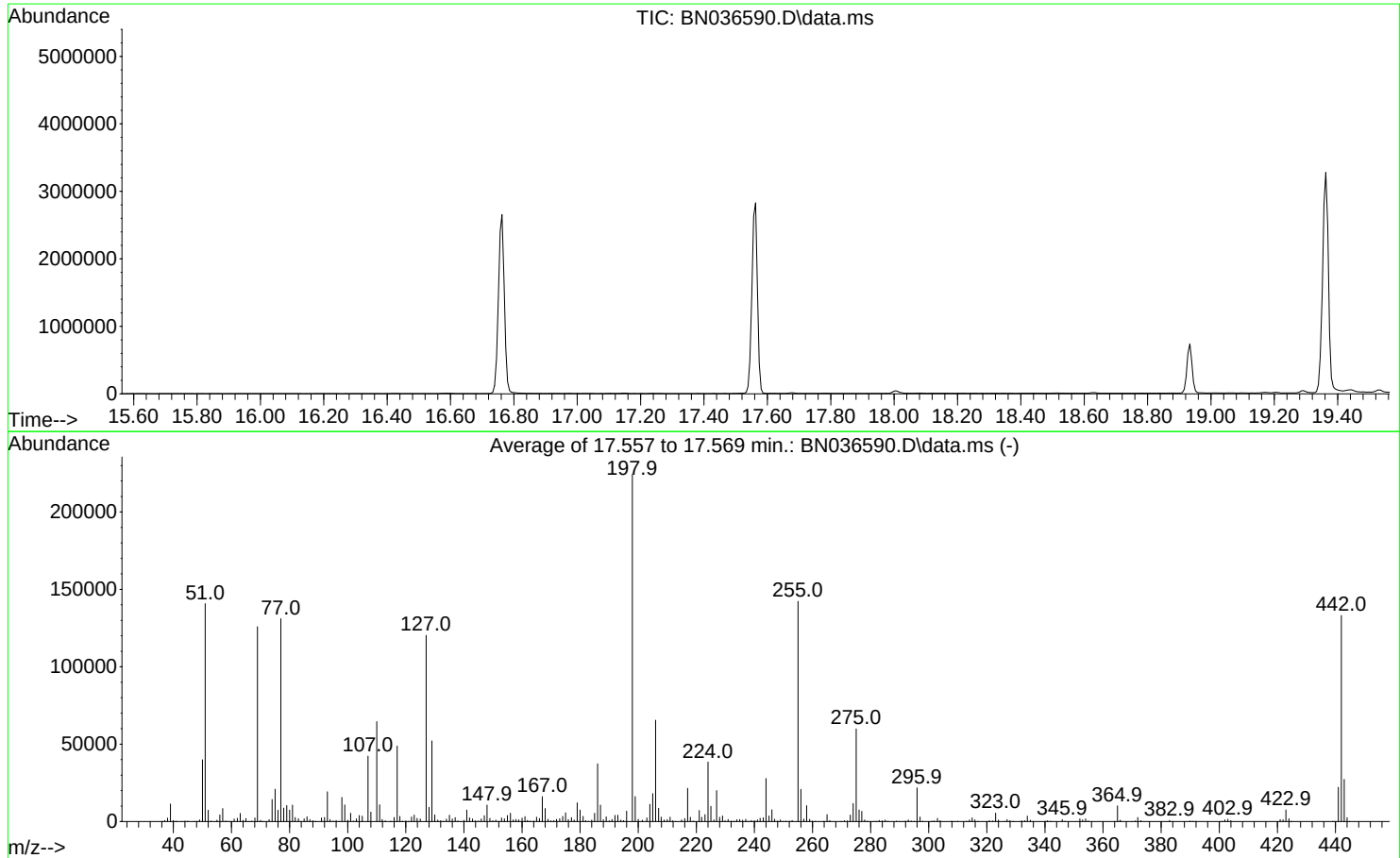
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.66
183.00	13.20	12.80
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036590.D
Acq On : 12 Mar 2025 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



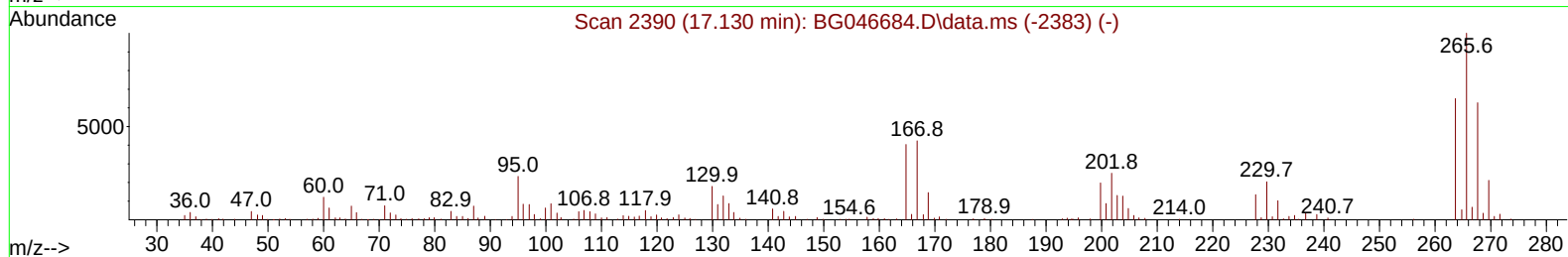
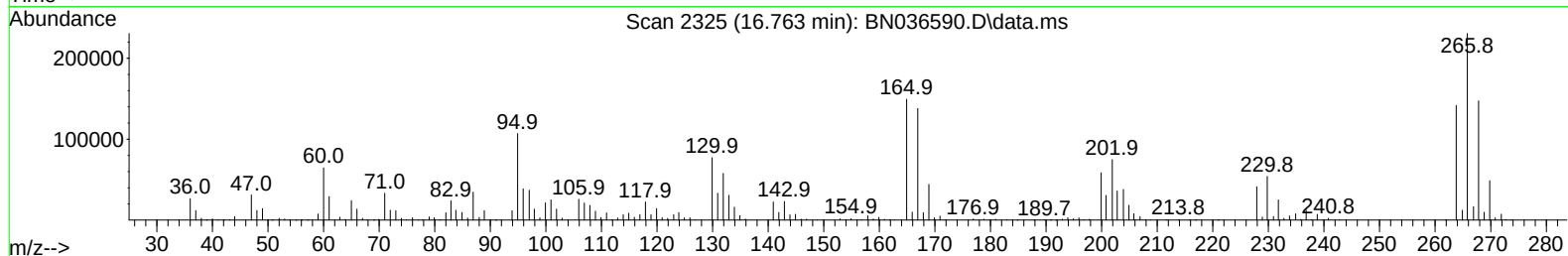
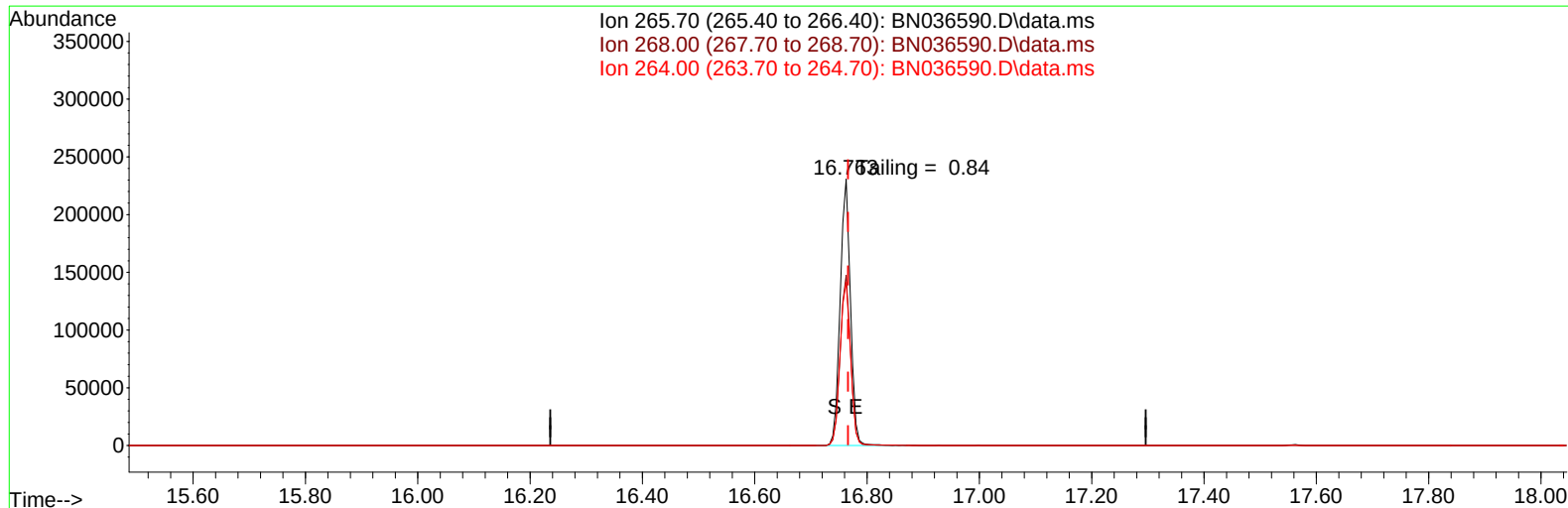
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.8	140749	PASS
68	69	0.00	2	1.8	2300	PASS
69	198	0.00	100	56.1	125881	PASS
70	69	0.00	2	0.6	788	PASS
127	198	10	80	53.6	120285	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	224299	PASS
199	198	5	9	7.2	16143	PASS
275	198	10	60	26.6	59765	PASS
365	198	1	100	4.5	10115	PASS
441	198	0.01	100	9.9	22131	PASS
442	442	50	100	100.0	133088	PASS
443	442	15	24	20.4	27203	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036590.D
Acq On : 12 Mar 2025 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 12 18:30:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036590.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 21862.92 ng

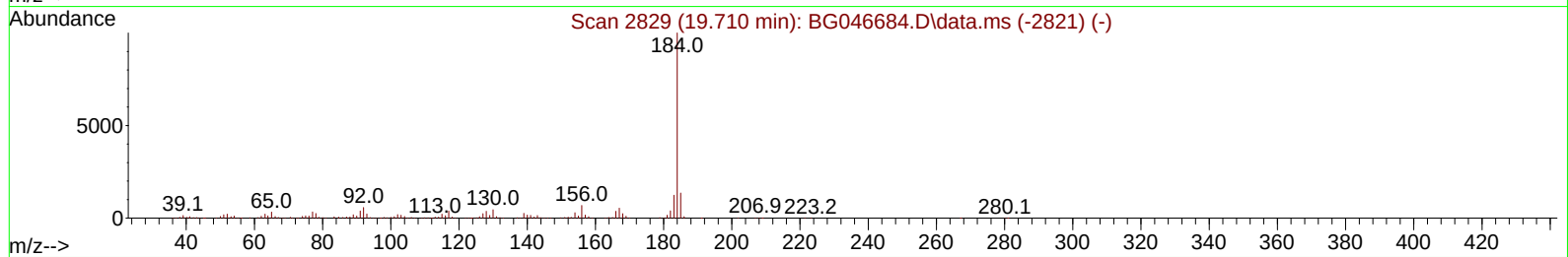
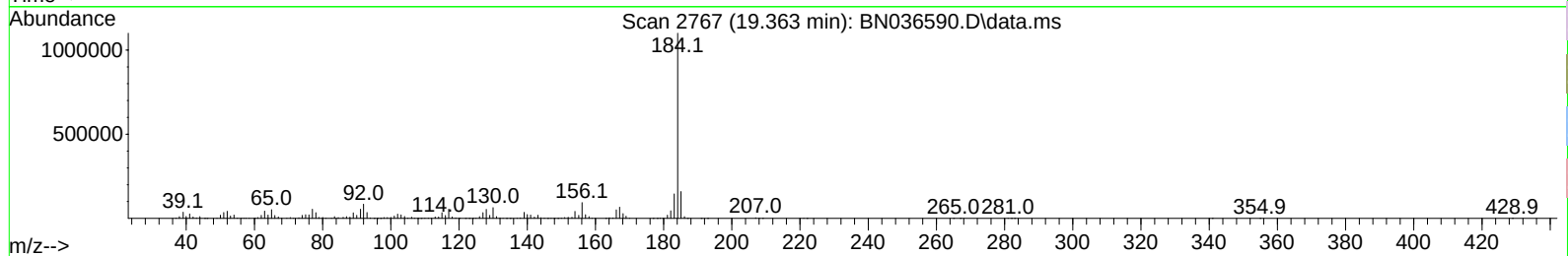
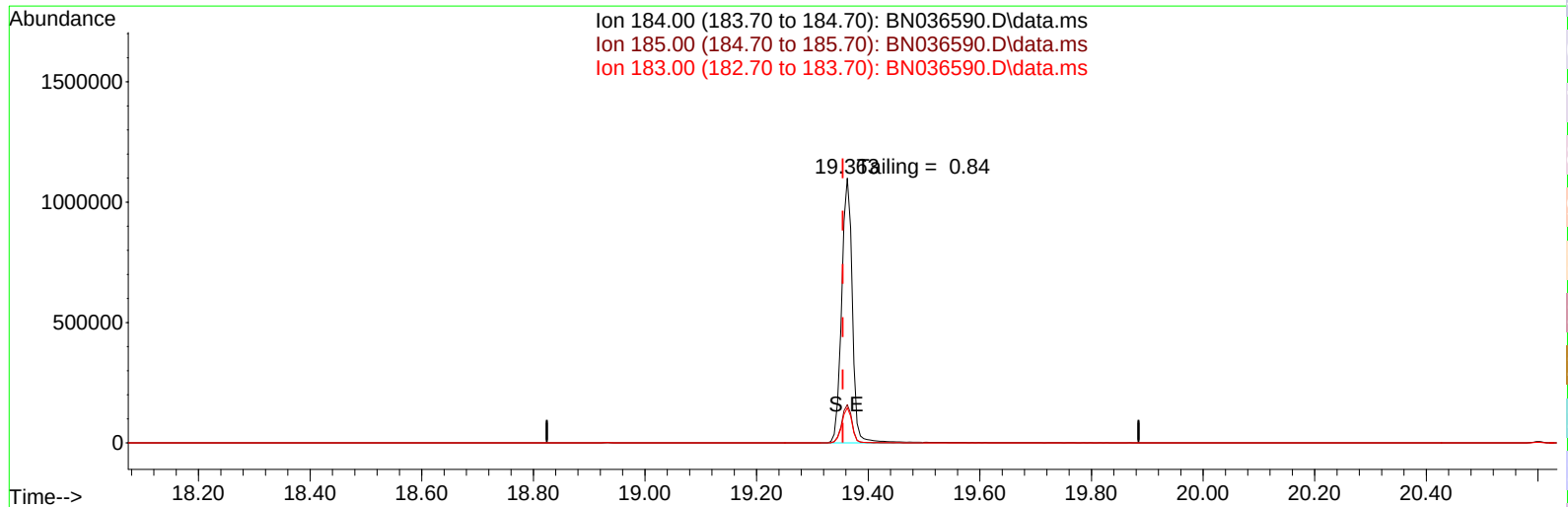
response 295280

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.93
264.00	61.60	61.49
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031225\
Data File : BN036590.D
Acq On : 12 Mar 2025 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 12 18:30:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036590.D\data.ms

(77) Benzidine

19.363min (+ 0.008) 0.00 ng

response 1469311

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.46
183.00	13.20	13.24
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/12/2025	BNA_N	<u>BN036590.D</u>
Compound Name	Response	Retention Time
DDT	1023398	20.598
DDD	10765	20.21
DDE	484	19.651
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11249	1034647	1.09

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:	PB167057BL	SDG No.:	Q1531
Lab Sample ID:	PB167057BL	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
BN036565.D	1	03/10/25 11:35	03/10/25 17:14	PB167057

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	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.23		53 - 106		58%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2260	7.724				
1146-65-2	Naphthalene-d8	4580	10.53				
15067-26-2	Acenaphthene-d10	2490	14.377				
1517-22-2	Phenanthrene-d10	4340	17.124				
1719-03-5	Chrysene-d12	2990	21.304				
1520-96-3	Perylene-d12	2720	23.566				

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\BN031025\
Data File : BN036565.D
Acq On : 10 Mar 2025 17:14
Operator : RC/JU
Sample : PB167057BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167057BL

Quant Time: Mar 10 17:40:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2263	0.400	ng	0.00
7) Naphthalene-d8	10.530	136	4575	0.400	ng	0.02
13) Acenaphthene-d10	14.377	164	2489	0.400	ng	0.01
19) Phenanthrene-d10	17.124	188	4335	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	2994	0.400	ng	# 0.00
35) Perylene-d12	23.566	264	2724	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2195	0.416	ng	0.00
5) Phenol-d6	6.908	99	2113	0.324	ng	0.00
8) Nitrobenzene-d5	8.897	82	1776	0.357	ng	0.02
11) 2-Methylnaphthalene-d10	12.131	152	2495	0.367	ng	0.02
14) 2,4,6-Tribromophenol	15.895	330	247	0.219	ng	0.04
15) 2-Fluorobiphenyl	13.019	172	3388	0.234	ng	0.03
27) Fluoranthene-d10	19.150	212	4890	0.440	ng	0.00
31) Terphenyl-d14	19.750	244	3090	0.431	ng	0.00

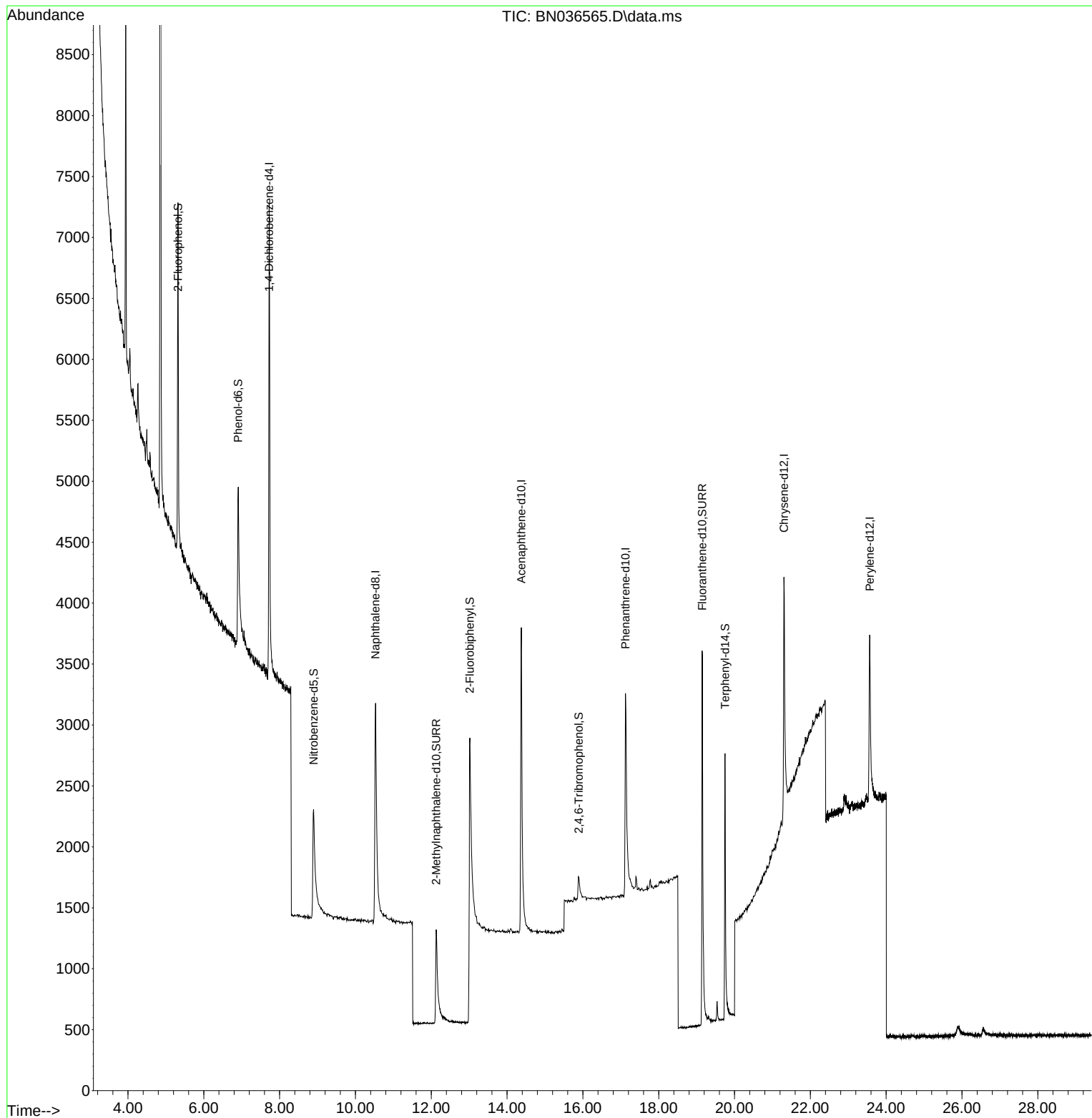
Target Compounds	Qvalue

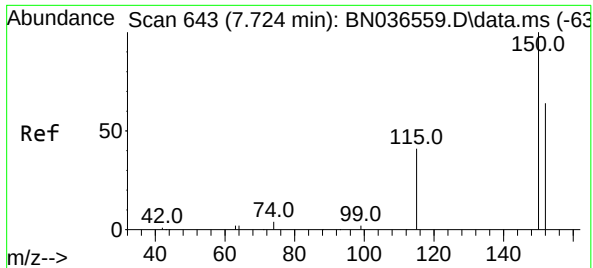
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036565.D
Acq On : 10 Mar 2025 17:14
Operator : RC/JU
Sample : PB167057BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167057BL

Quant Time: Mar 10 17:40:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

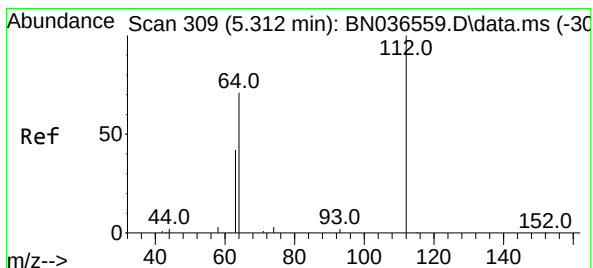
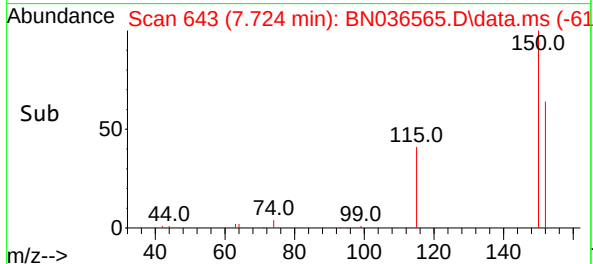
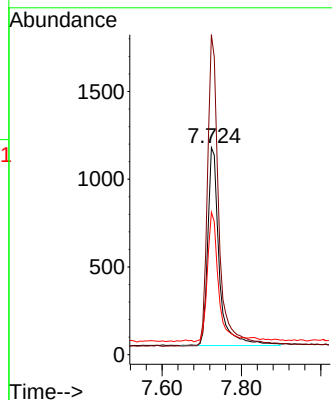
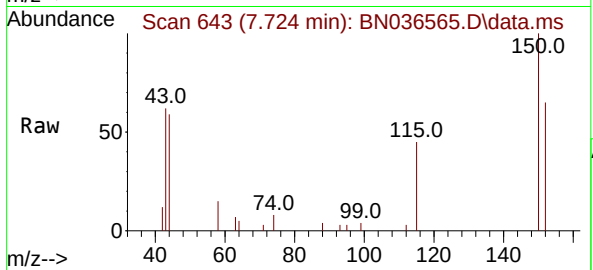




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

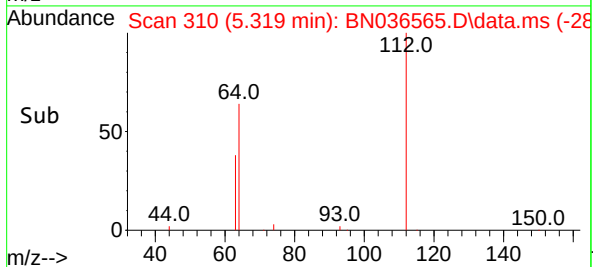
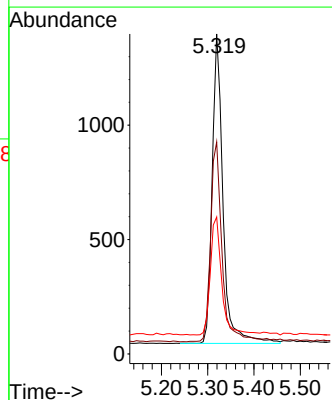
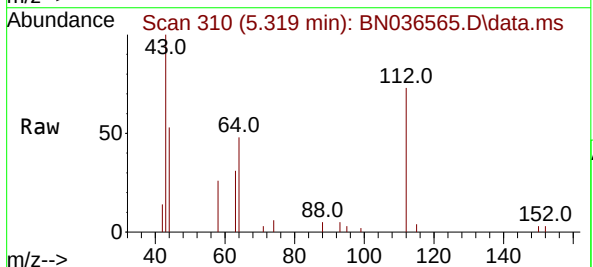
Instrument :
BNA_N
ClientSampleId :
PB167057BL

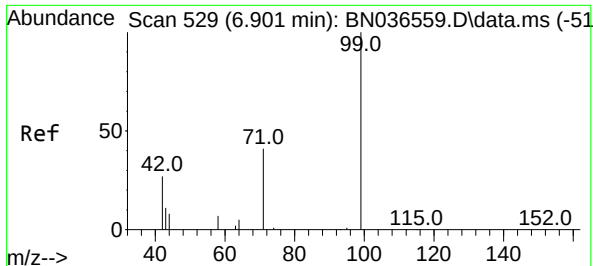
Tgt Ion:152 Resp: 2263
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 68.8 54.3 81.5



#4
2-Fluorophenol
Concen: 0.416 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion:112 Resp: 2195
Ion Ratio Lower Upper
112 100
64 69.1 53.1 79.7
63 40.1 31.8 47.8

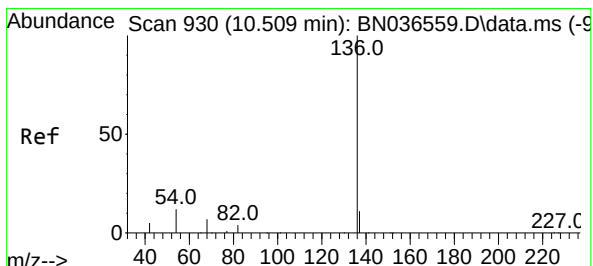
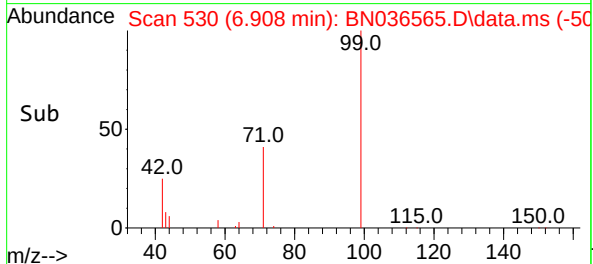
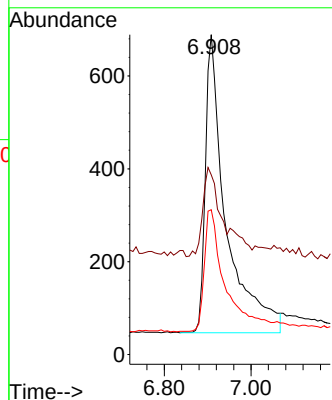
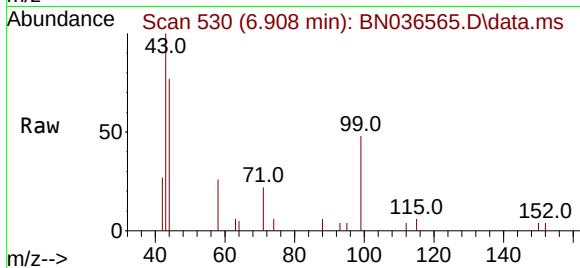




#5
Phenol-d6
Concen: 0.324 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

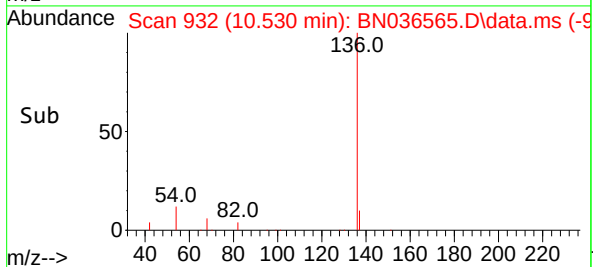
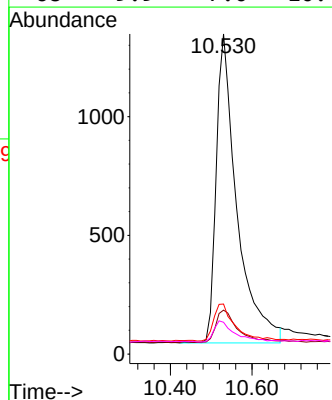
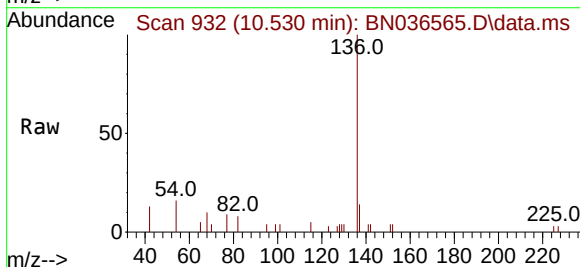
Instrument :
BNA_N
ClientSampleId :
PB167057BL

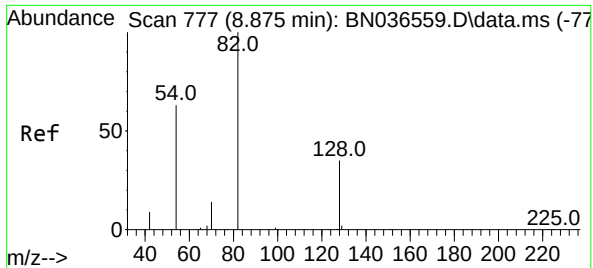
Tgt Ion: 99 Resp: 2113
Ion Ratio Lower Upper
99 100
42 29.4 26.5 39.7
71 42.5 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. 0.021 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion: 136 Resp: 4575
Ion Ratio Lower Upper
136 100
137 13.7 10.3 15.5
54 15.7 11.5 17.3
68 9.9 7.0 10.4

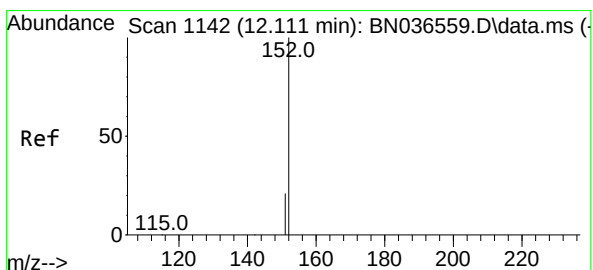
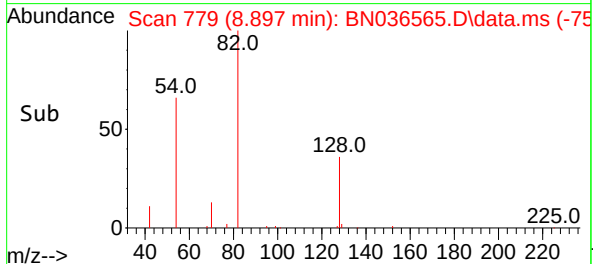
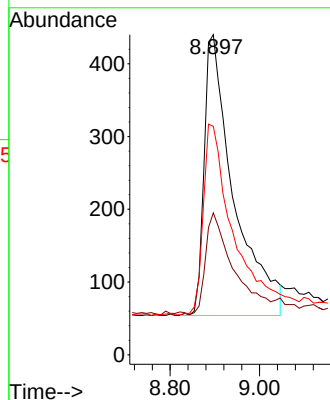
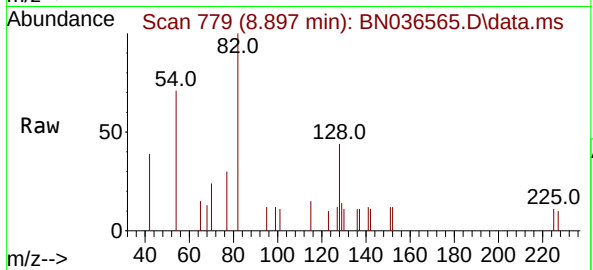




#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.897 min Scan# 71
Delta R.T. 0.021 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

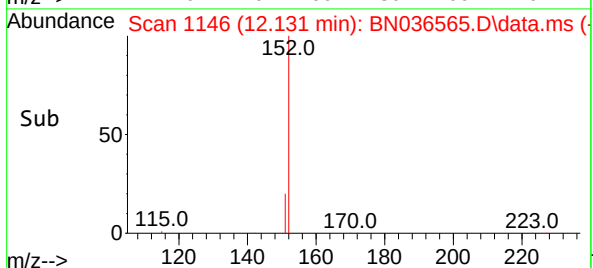
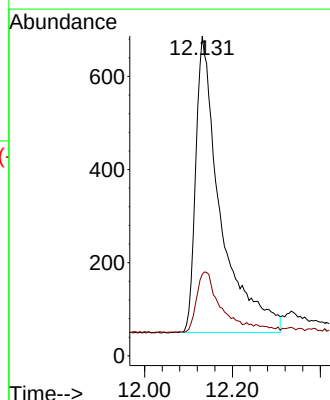
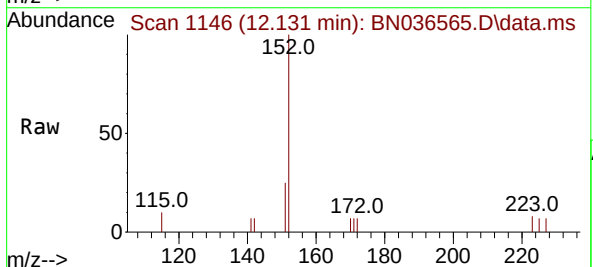
Instrument :
BNA_N
ClientSampleId :
PB167057BL

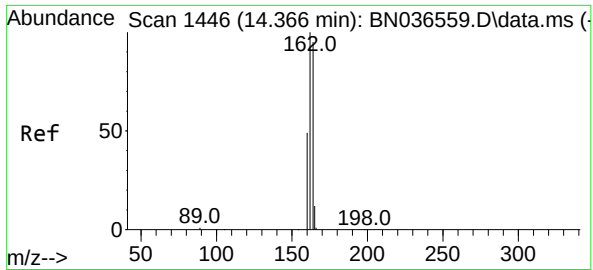
Tgt Ion: 82 Resp: 1776
Ion Ratio Lower Upper
82 100
128 44.3 30.6 45.8
54 71.4 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 12.131 min Scan# 1146
Delta R.T. 0.020 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion: 152 Resp: 2495
Ion Ratio Lower Upper
152 100
151 18.7 17.0 25.6

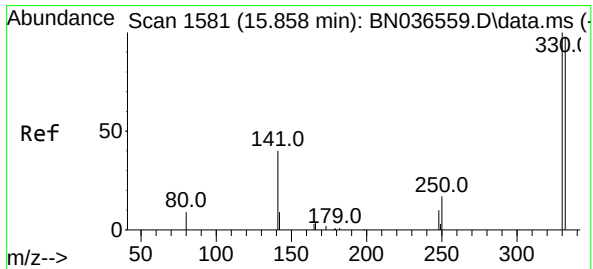
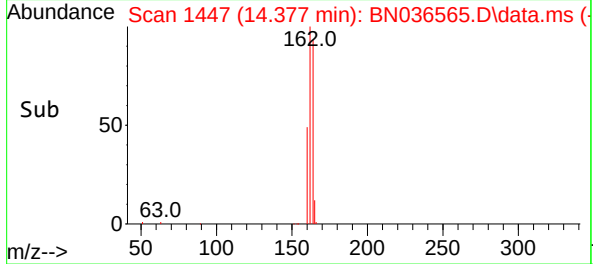
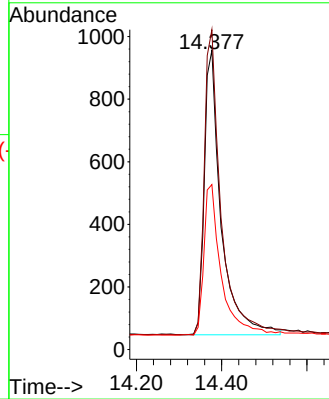
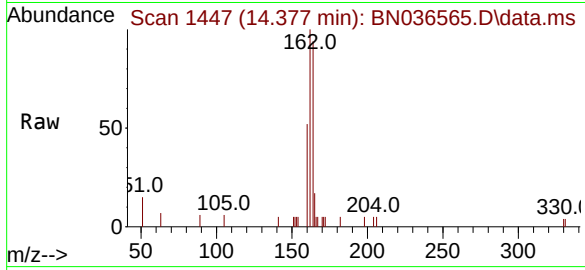




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1446
Delta R.T. 0.011 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

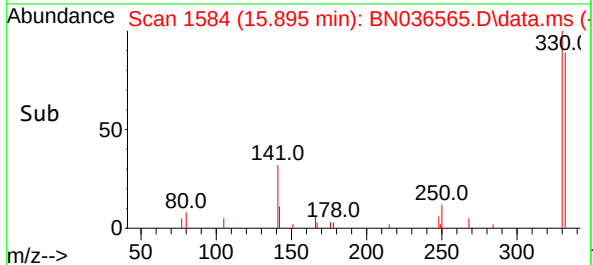
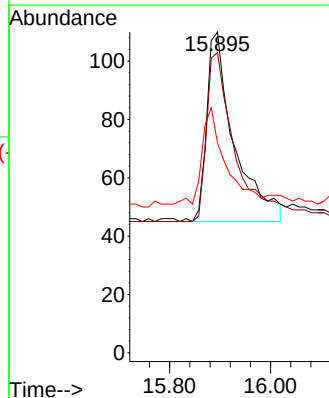
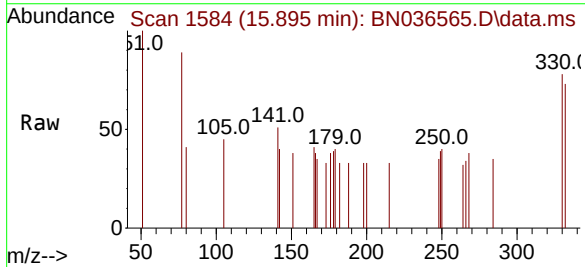
Instrument :
BNA_N
ClientSampleId :
PB167057BL

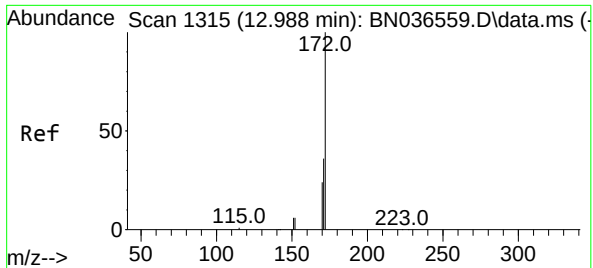
Tgt Ion:164 Resp: 2489
Ion Ratio Lower Upper
164 100
162 106.9 84.2 126.2
160 55.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.219 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.037 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion:330 Resp: 247
Ion Ratio Lower Upper
330 100
332 91.1 75.2 112.8
141 42.5 43.4 65.2#

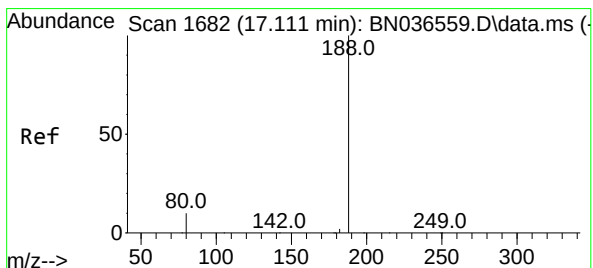
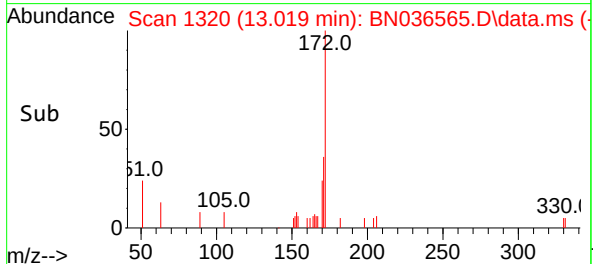
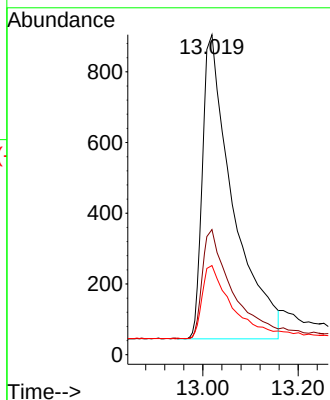
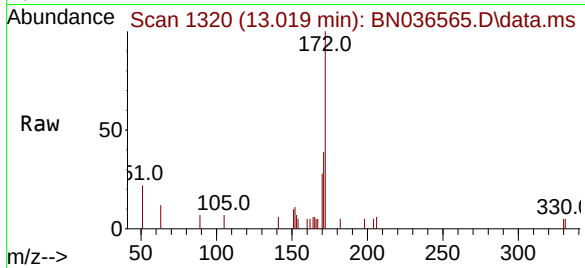




#15
2-Fluorobiphenyl
Concen: 0.234 ng
RT: 13.019 min Scan# 11
Delta R.T. 0.031 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

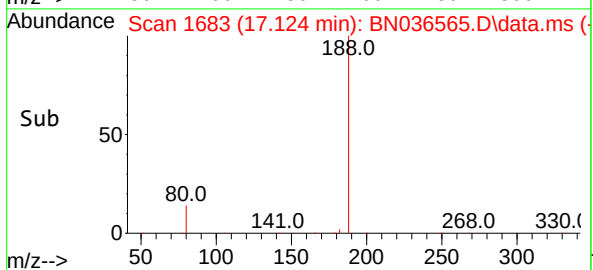
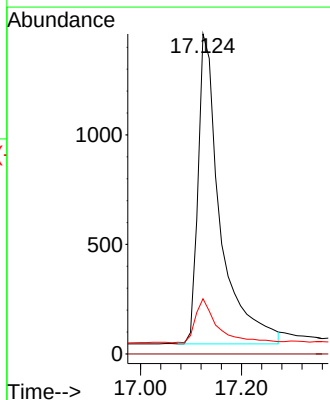
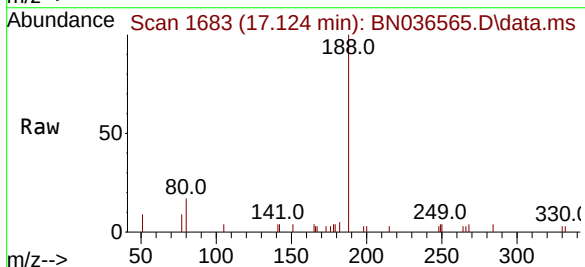
Instrument :
BNA_N
ClientSampleId :
PB167057BL

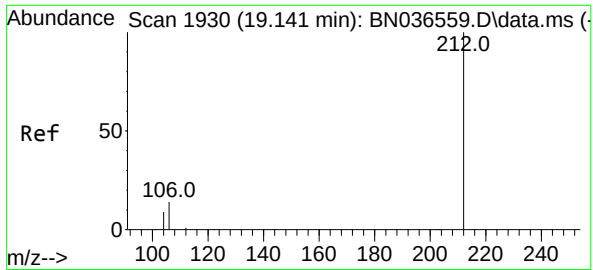
Tgt Ion:	172	Resp:	3388
Ion	Ratio	Lower	Upper
172	100		
171	39.1	29.5	44.3
170	27.8	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.012 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion:	188	Resp:	4335
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.2	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.440 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.009 min

Lab File: BN036565.D

Acq: 10 Mar 2025 17:14

Instrument :

BNA_N

ClientSampleId :

PB167057BL

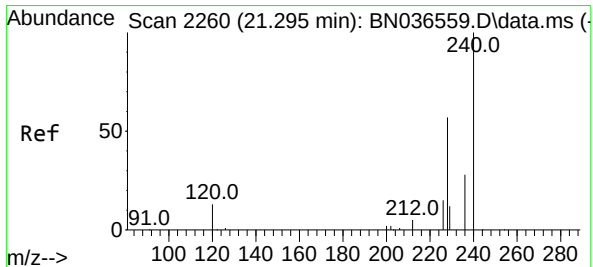
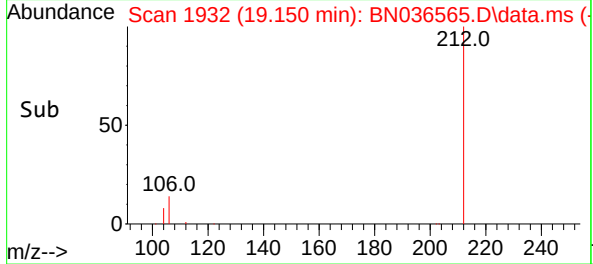
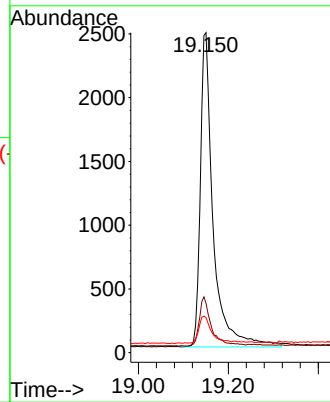
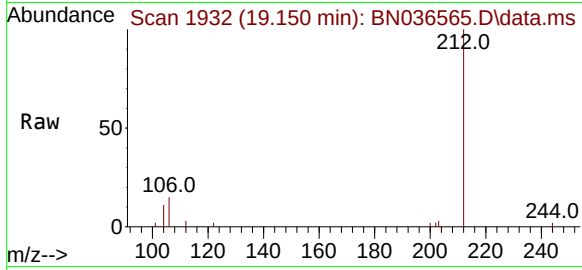
Tgt Ion:212 Resp: 4890

Ion Ratio Lower Upper

212 100

106 14.6 11.8 17.6

104 8.6 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 2261

Delta R.T. 0.009 min

Lab File: BN036565.D

Acq: 10 Mar 2025 17:14

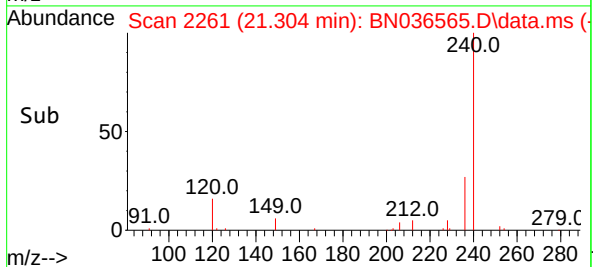
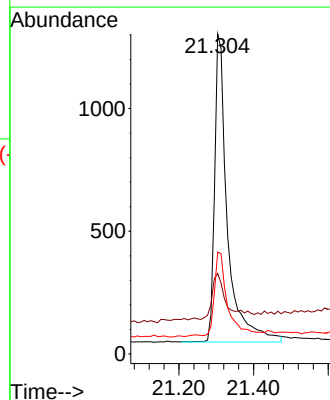
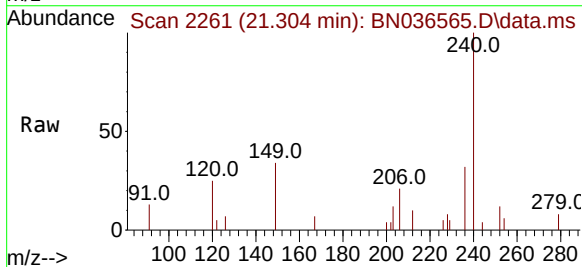
Tgt Ion:240 Resp: 2994

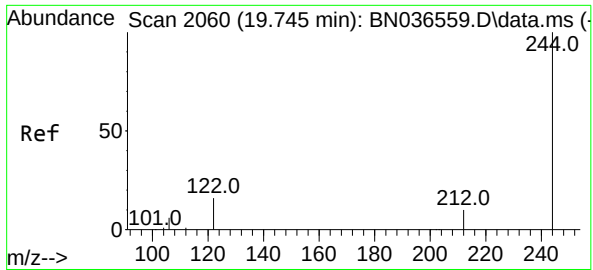
Ion Ratio Lower Upper

240 100

120 25.2 14.6 22.0#

236 31.8 24.1 36.1

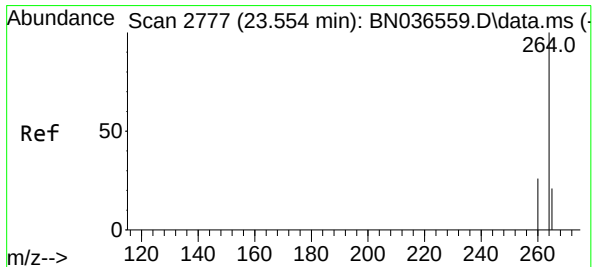
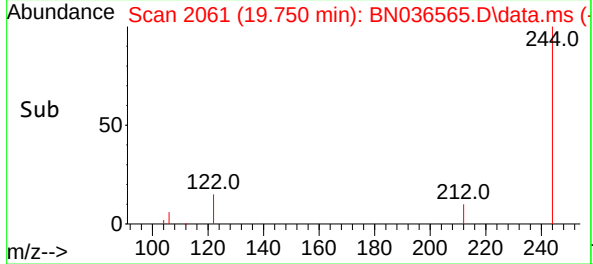
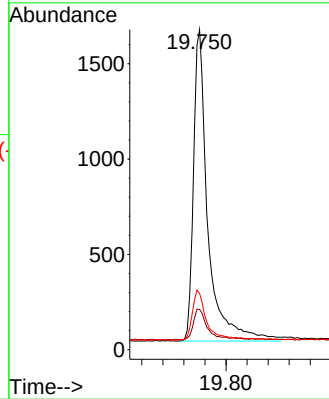
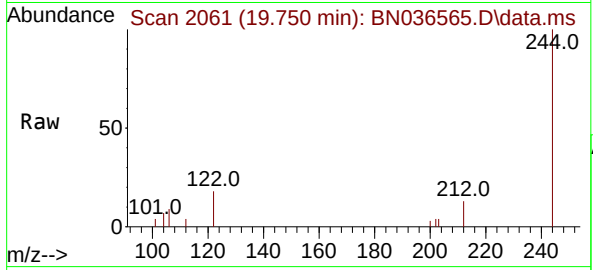




#31
Terphenyl-d14
Concen: 0.431 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

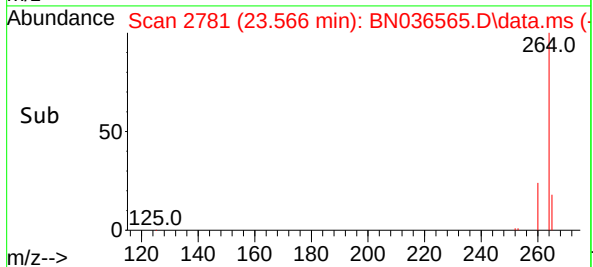
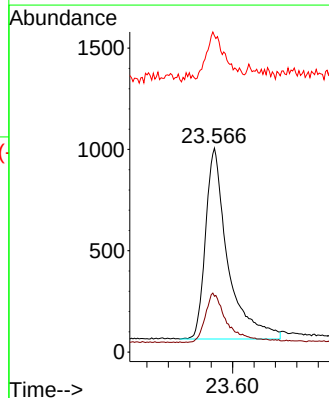
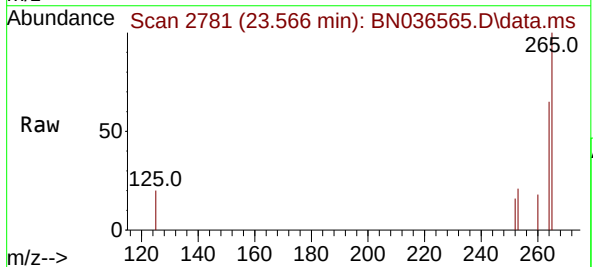
Instrument :
BNA_N
ClientSampleId :
PB167057BL

Tgt Ion:244 Resp: 3090
Ion Ratio Lower Upper
244 100
212 12.6 9.6 14.4
122 17.6 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.566 min Scan# 2781
Delta R.T. 0.012 min
Lab File: BN036565.D
Acq: 10 Mar 2025 17:14

Tgt Ion:264 Resp: 2724
Ion Ratio Lower Upper
264 100
260 27.3 22.6 33.8
265 155.0 88.1 132.1#



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:	PB167057BS	SDG No.:	Q1531
Lab Sample ID:	PB167057BS	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
BN036588.D	1	03/10/25 11:35	03/11/25 19:09	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		132%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2200	7.724				
1146-65-2	Naphthalene-d8	5060	10.509				
15067-26-2	Acenaphthene-d10	2480	14.366				
1517-22-2	Phenanthrene-d10	4180	17.111				
1719-03-5	Chrysene-d12	2420	21.304				
1520-96-3	Perylene-d12	2070	23.557				

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\BN031125\
 Data File : BN036588.D
 Acq On : 11 Mar 2025 19:09
 Operator : RC/JU
 Sample : PB167057BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS

Quant Time: Mar 12 01:09:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/12/2025
 Supervised By :Jagrut Upadhyay 03/12/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2199	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5061	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2475	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	4176	0.400	ng	0.00
29) Chrysene-d12	21.304	240	2420	0.400	ng	0.00
35) Perylene-d12	23.557	264	2074	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2148	0.419	ng	0.00
5) Phenol-d6	6.901	99	2472	0.390	ng	0.00
8) Nitrobenzene-d5	8.875	82	2108	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3960	0.526	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	375	0.334	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6472	0.450	ng	0.00
27) Fluoranthene-d10	19.141	212	4153	0.388	ng	0.00
31) Terphenyl-d14	19.750	244	2732	0.471	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	979	0.401	ng	# 29
3) n-Nitrosodimethylamine	3.550	42	2276	0.461	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	2676	0.409	ng	99
9) Naphthalene	10.562	128	6313	0.424	ng	99
10) Hexachlorobutadiene	10.850	225	1584	0.452	ng	# 97
12) 2-Methylnaphthalene	12.177	142	3954	0.417	ng	99
16) Acenaphthylene	14.077	152	5361	0.459	ng	100
17) Acenaphthene	14.420	154	3280	0.429	ng	99
18) Fluorene	15.414	166	4237	0.410	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	335	0.460	ng	# 78
21) 4-Bromophenyl-phenylether	16.304	248	1256	0.480	ng	92
22) Hexachlorobenzene	16.416	284	1619	0.513	ng	98
23) Atrazine	16.590	200	1046	0.499	ng	92
24) Pentachlorophenol	16.776	266	917	0.637	ng	99
25) Phenanthrene	17.148	178	6029	0.481	ng	99
26) Anthracene	17.248	178	5609	0.496	ng	99
28) Fluoranthene	19.174	202	6012	0.427	ng	98
30) Pyrene	19.536	202	6199	0.524	ng	99
32) Benzo(a)anthracene	21.286	228	3838	0.456	ng	99
33) Chrysene	21.331	228	4624	0.503	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	2665	0.445	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.841	276	4164	0.556	ng	94
37) Benzo(b)fluoranthene	22.876	252	3355	0.445	ng	94
38) Benzo(k)fluoranthene	22.923	252	4137m	0.522	ng	
39) Benzo(a)pyrene	23.458	252	3242	0.510	ng	98
40) Dibenzo(a,h)anthracene	25.861	278	3176	0.545	ng	95
41) Benzo(g,h,i)perylene	26.531	276	3258	0.489	ng	98

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

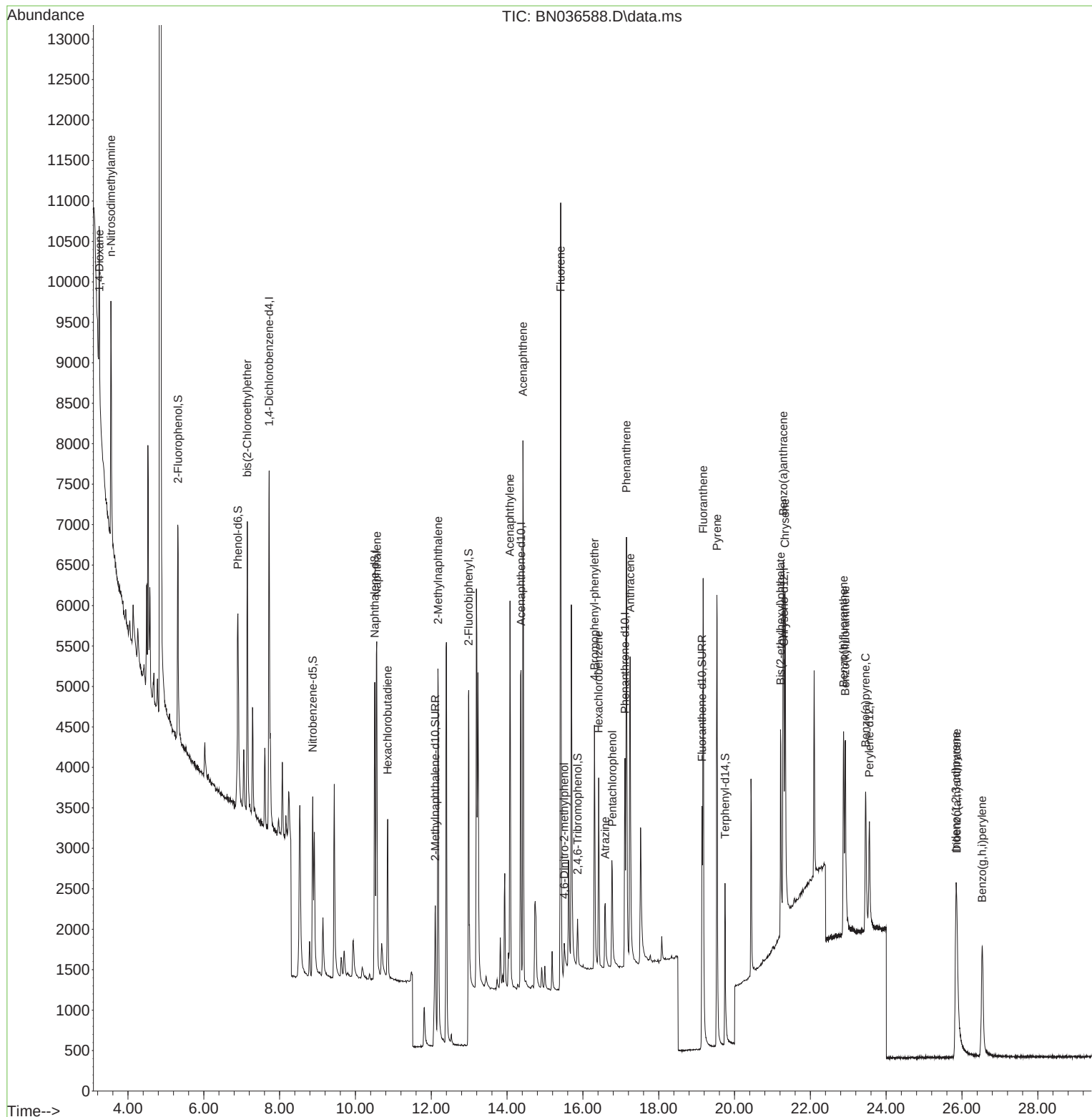
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Data File : BN036588.D
Acq On : 11 Mar 2025 19:09
Operator : RC/JU
Sample : PB167057BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

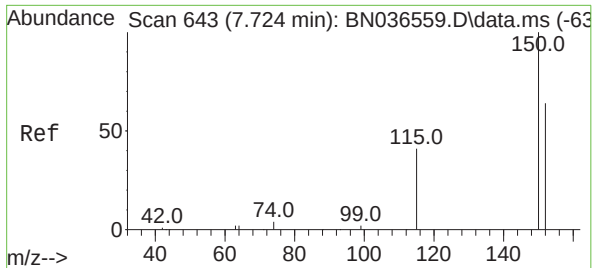
Instrument :
BNA_N
ClientSampleId :
PB167057BS

Quant Time: Mar 12 01:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

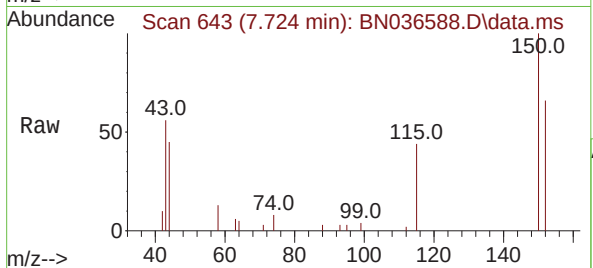
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

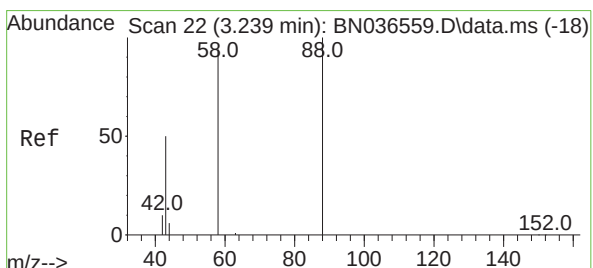
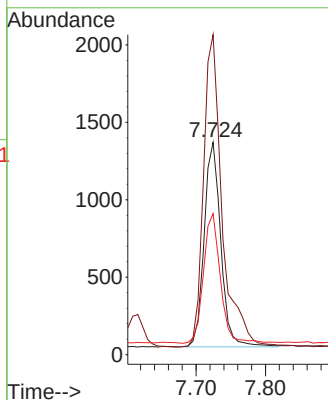
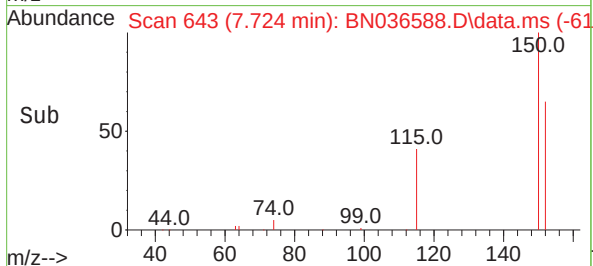
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion: 152 Resp: 219
Ion Ratio Lower Upper
152 100
150 150.7 123.7 185.5
115 66.4 54.3 81.5

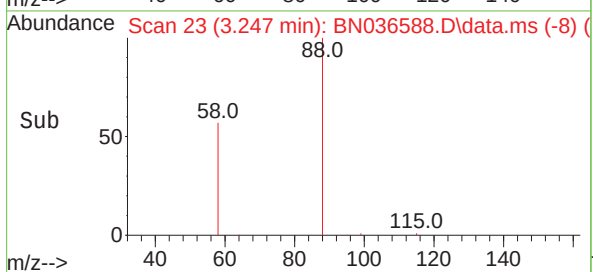
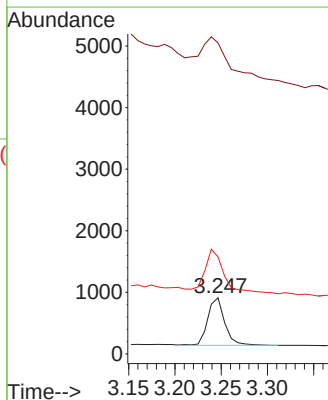
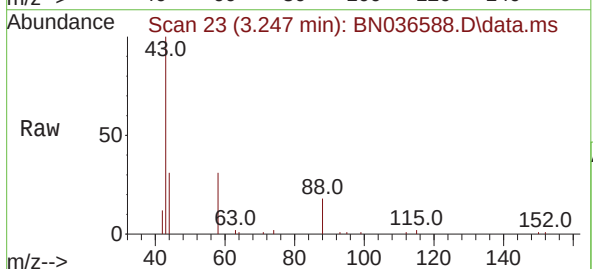
Manual Integrations
APPROVED

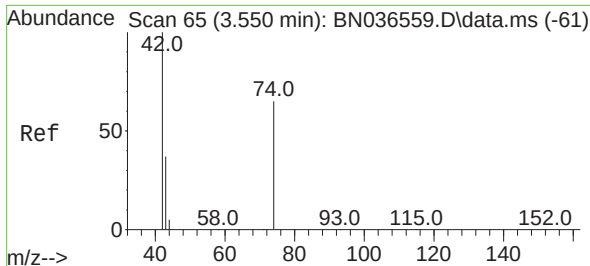
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion: 88 Resp: 979
Ion Ratio Lower Upper
88 100
43 149.4 37.8 56.8#
58 107.3 67.4 101.2#





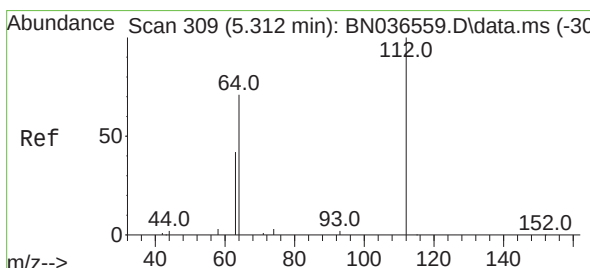
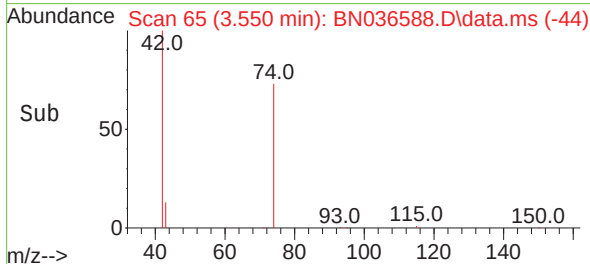
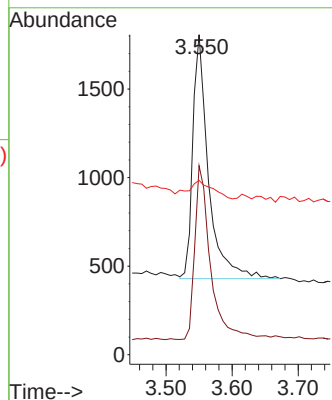
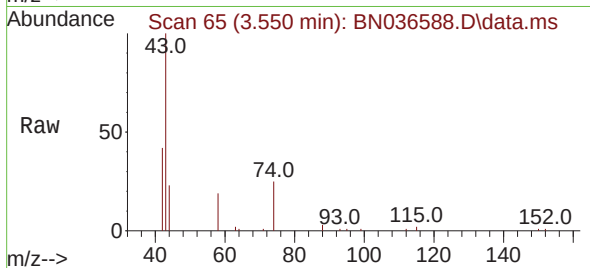
#3
n-Nitrosodimethylamine
Concen: 0.461 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

Tgt Ion: 42 Resp: 2270
Ion Ratio Lower Upper
42 100
74 72.7 60.6 90.8
44 9.7 6.3 9.5

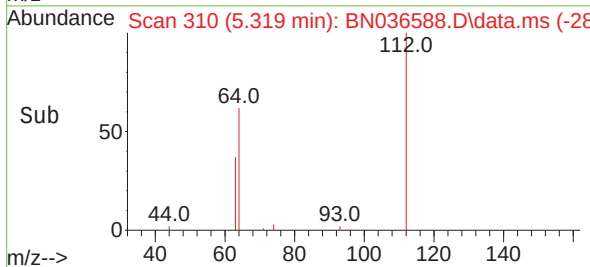
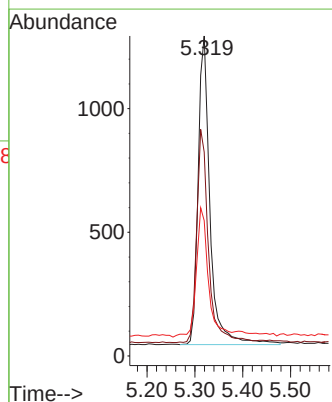
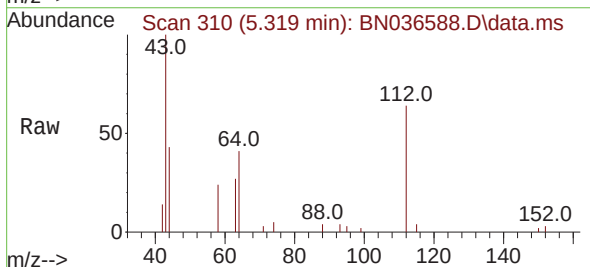
Manual Integrations
APPROVED

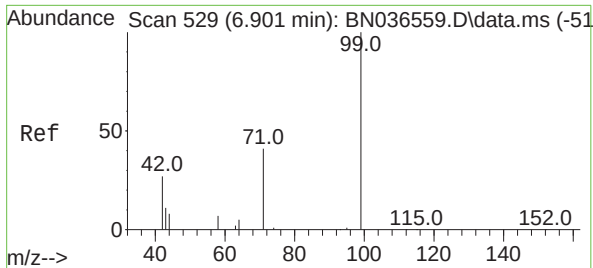
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#4
2-Fluorophenol
Concen: 0.419 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:112 Resp: 2148
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 42.4 31.8 47.8





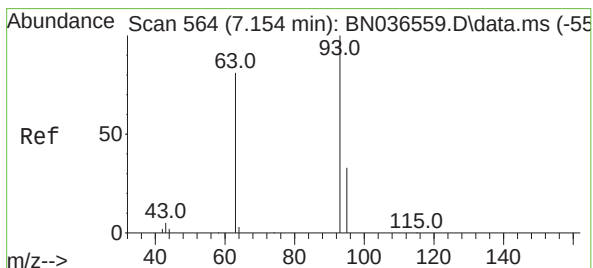
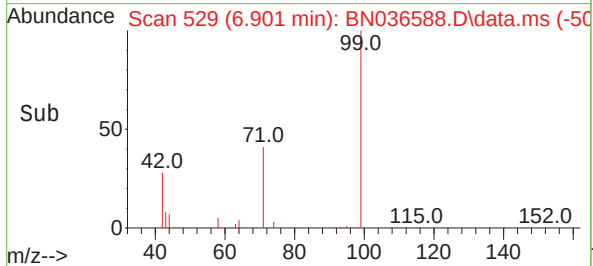
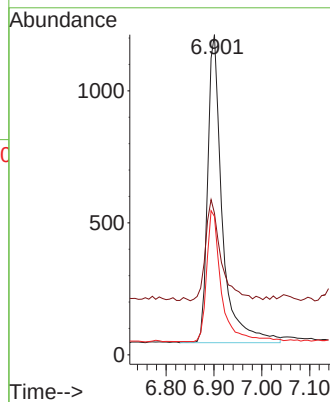
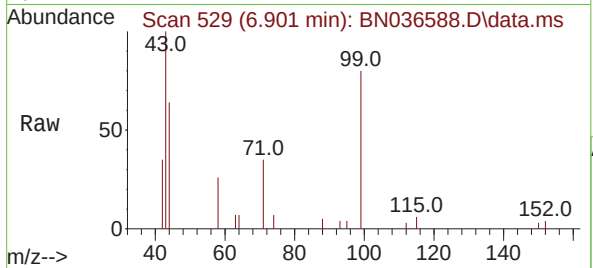
#5
Phenol-d6
Concen: 0.390 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

Tgt Ion: 99 Resp: 247
Ion Ratio Lower Upper
99 100
42 35.1 26.5 39.7
71 43.5 34.1 51.1

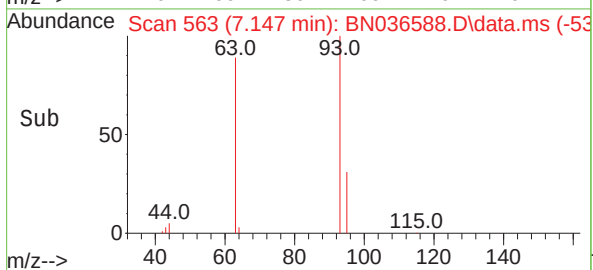
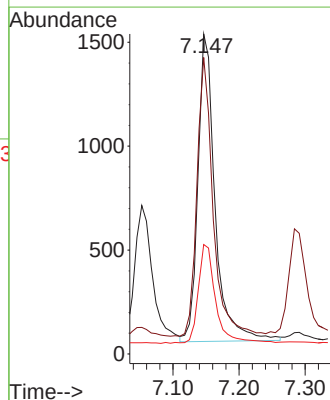
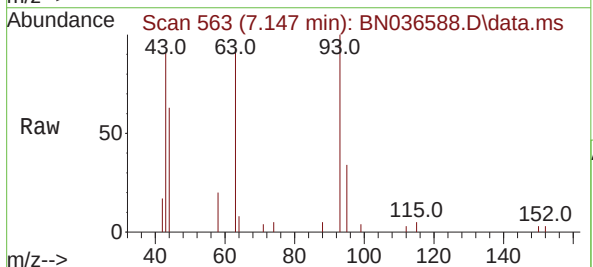
Manual Integrations
APPROVED

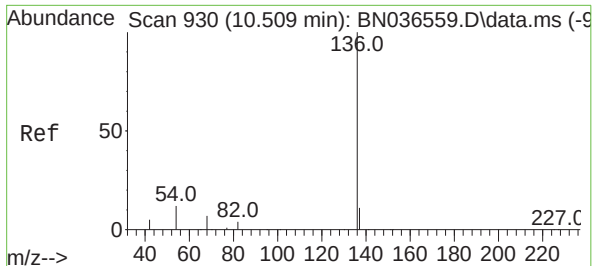
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion: 93 Resp: 2676
Ion Ratio Lower Upper
93 100
63 85.4 67.7 101.5
95 32.9 25.6 38.4





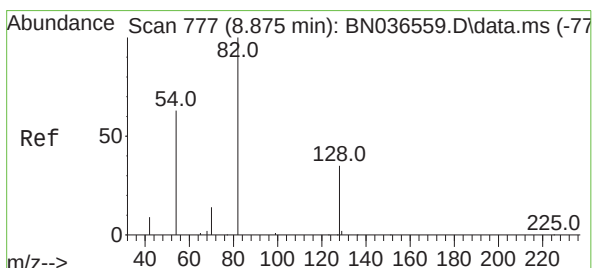
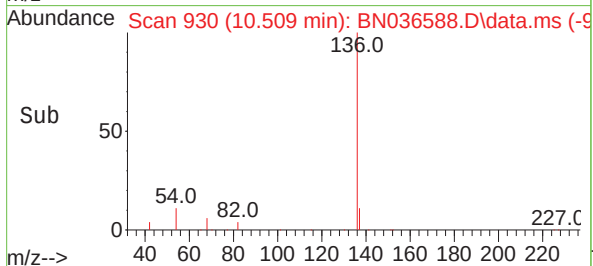
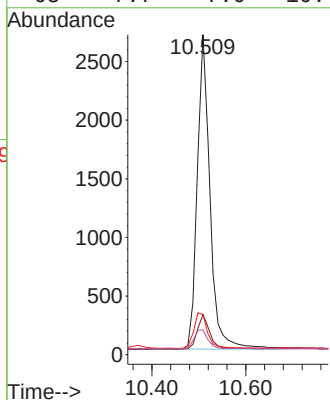
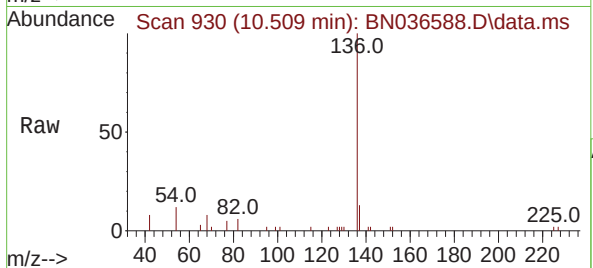
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

Tgt Ion:	136	Resp:	506
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	12.5	11.5	17.3
68	7.7	7.0	10.4

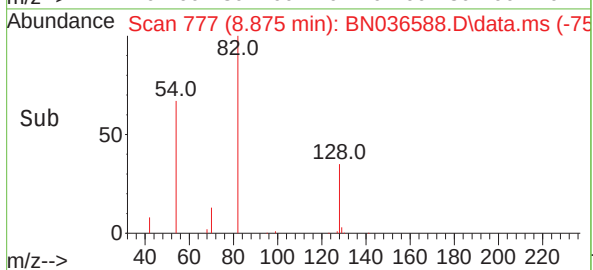
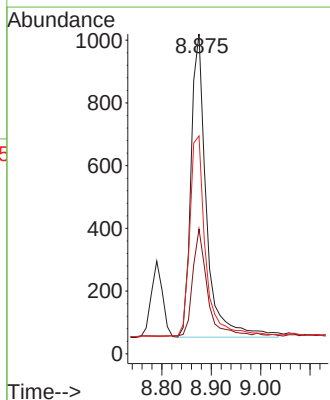
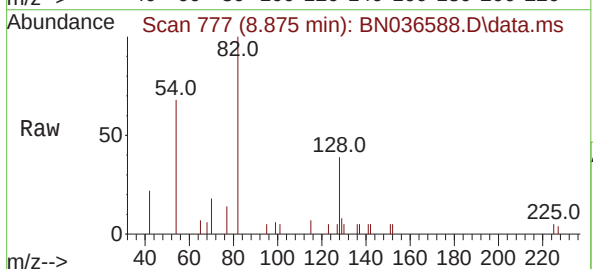
Manual Integrations
APPROVED

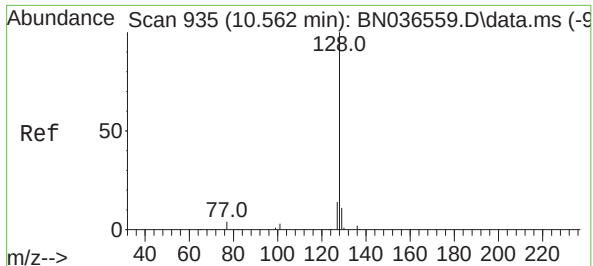
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:	82	Resp:	2108
Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	68.1	52.2	78.4





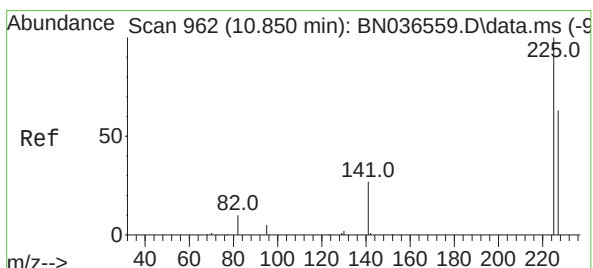
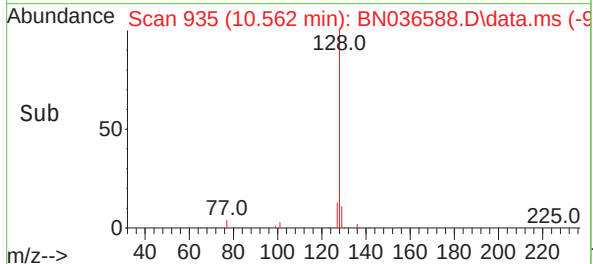
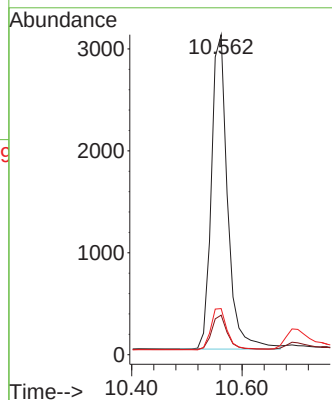
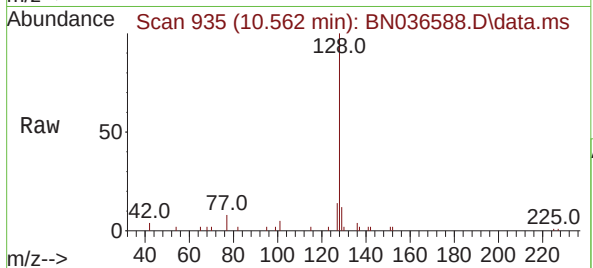
#9
Naphthalene
Concen: 0.424 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

Tgt Ion:128 Resp: 631
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.4 11.8 17.8

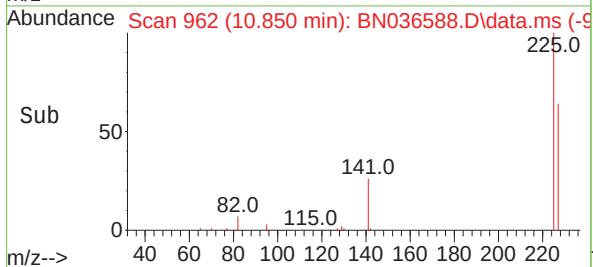
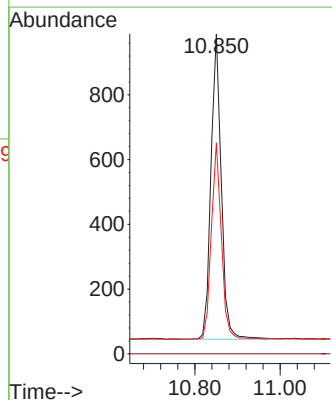
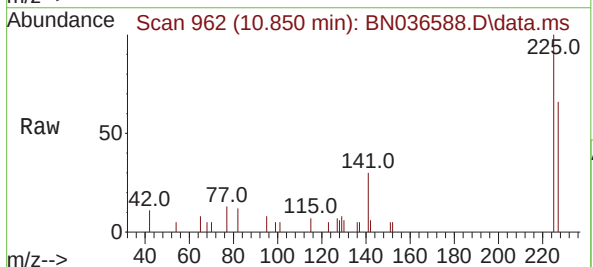
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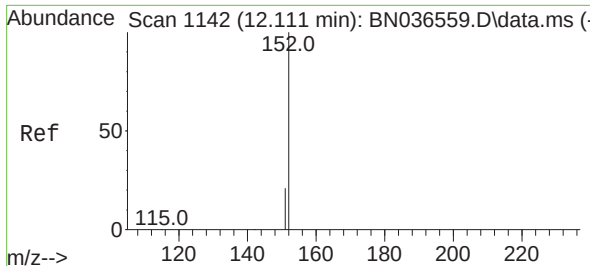
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

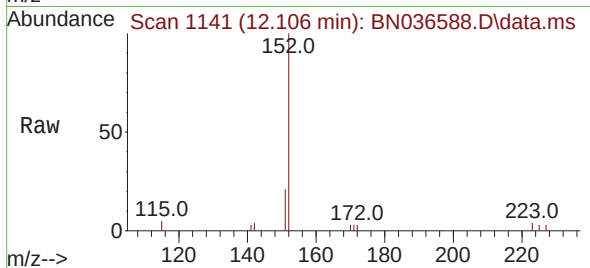
Tgt Ion:225 Resp: 1584
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.526 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

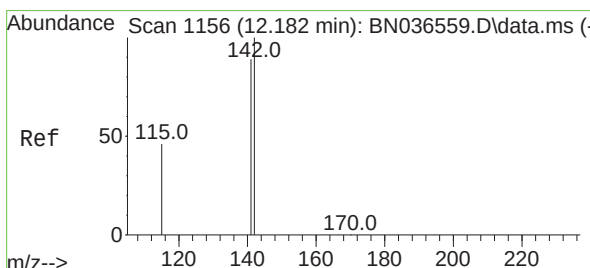
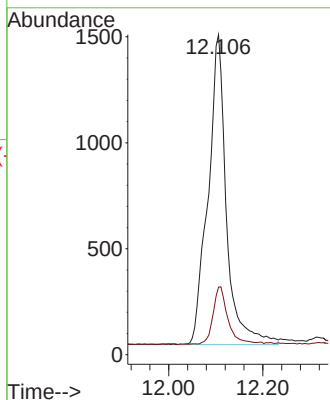
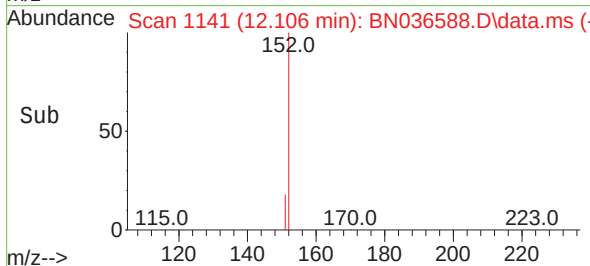
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:152 Resp: 3960
Ion Ratio Lower Upper
152 100
151 14.7 17.0 25.6

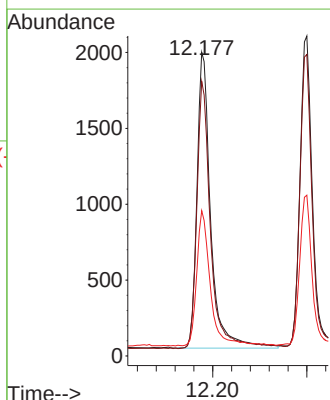
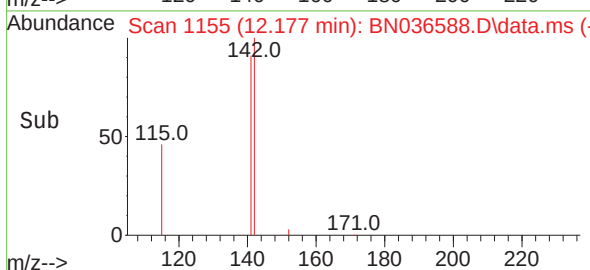
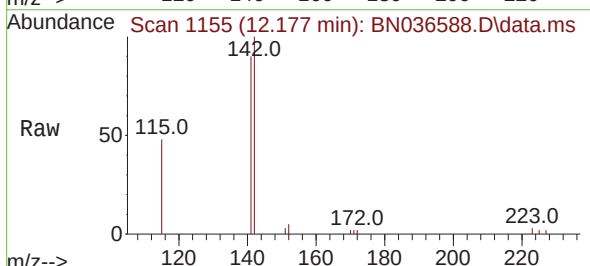
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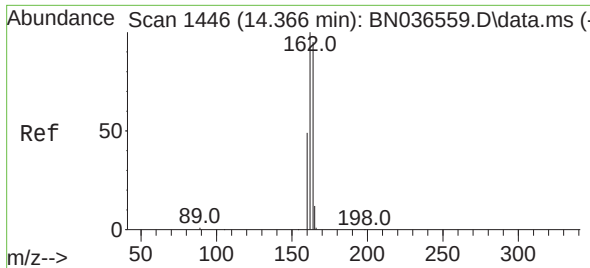
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#12
2-Methylnaphthalene
Concen: 0.417 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

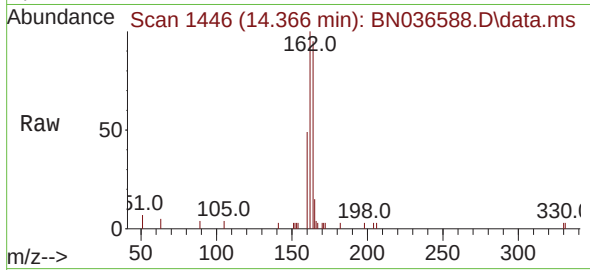
Tgt Ion:142 Resp: 3954
Ion Ratio Lower Upper
142 100
141 90.5 71.7 107.5
115 47.9 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

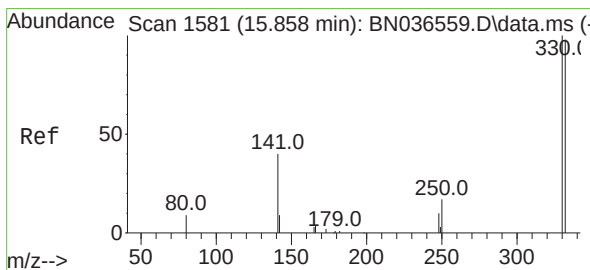
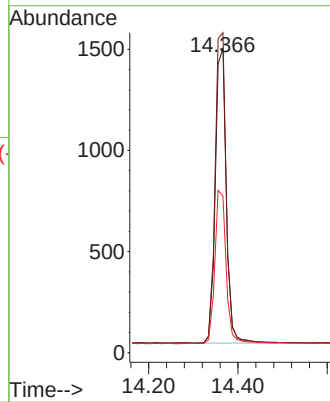
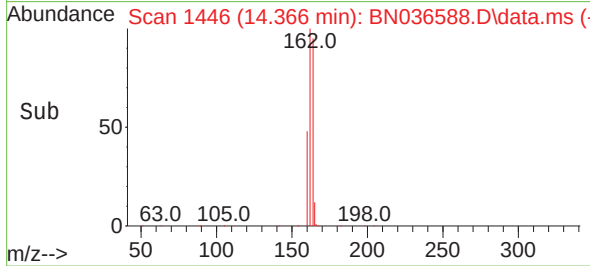
Instrument :
BNA_N
ClientSampleId :
PB167057BS



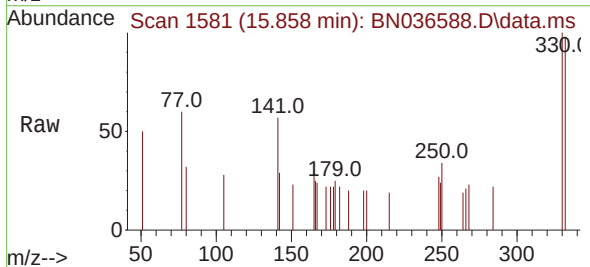
Tgt Ion:164 Resp: 247
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 51.5 42.2 63.2

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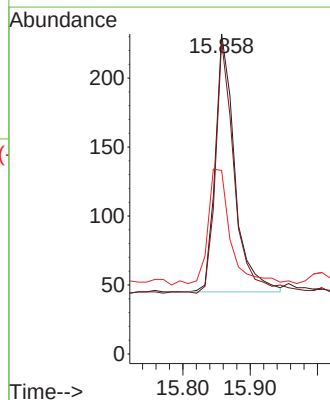
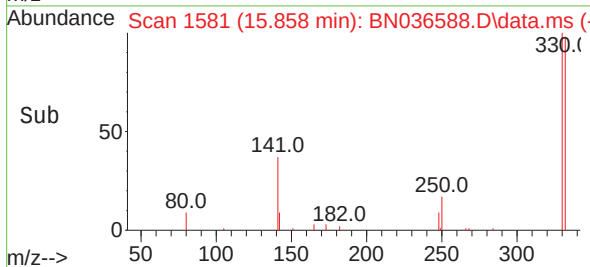
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

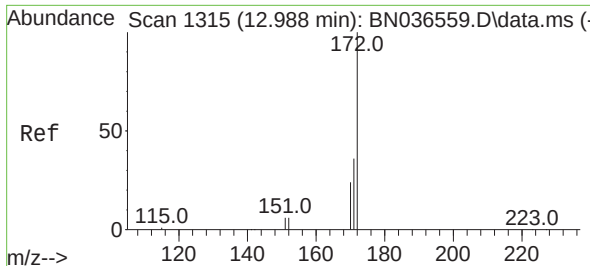


#14
2,4,6-Tribromophenol
Concen: 0.334 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09



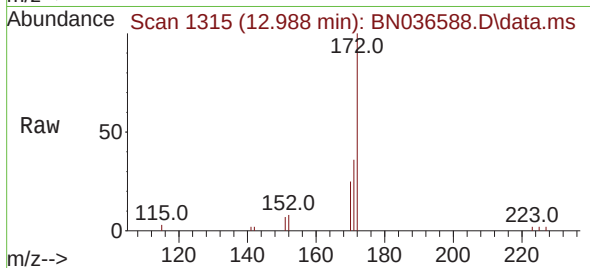
Tgt Ion:330 Resp: 375
Ion Ratio Lower Upper
330 100
332 96.8 75.2 112.8
141 53.9 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.450 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

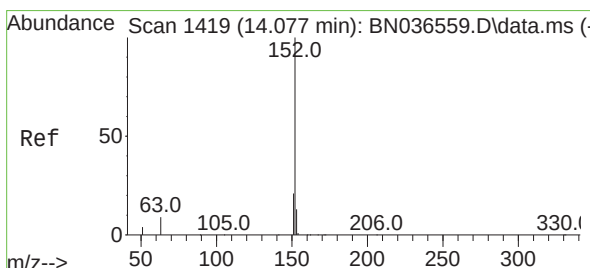
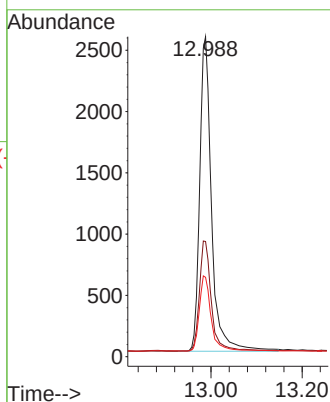
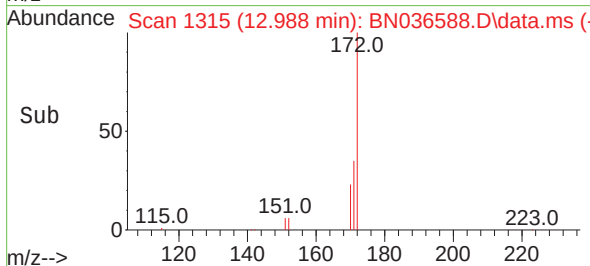
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:172 Resp: 6472
Ion Ratio Lower Upper
172 100
171 36.0 29.5 44.3
170 24.8 20.2 30.4

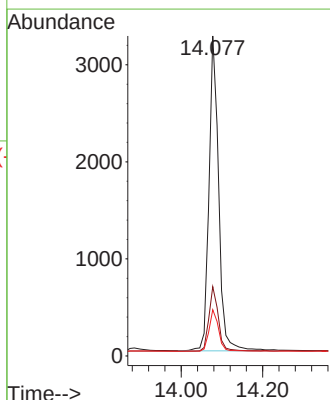
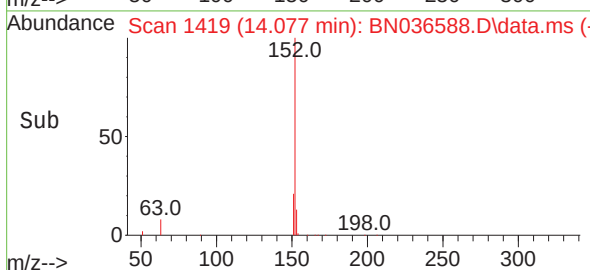
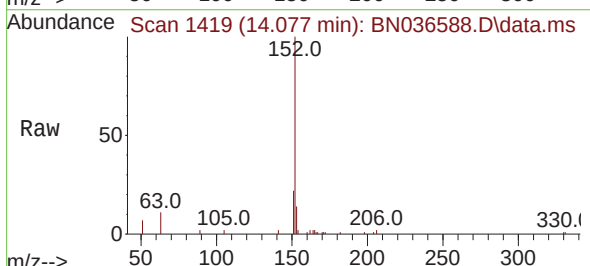
Manual Integrations
APPROVED

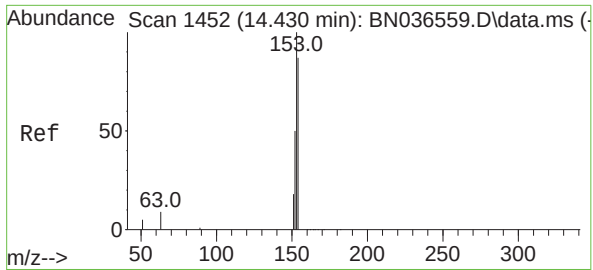
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#16
Acenaphthylene
Concen: 0.459 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:152 Resp: 5361
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4
153 13.2 10.6 15.8





#17

Acenaphthene

Concen: 0.429 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036588.D

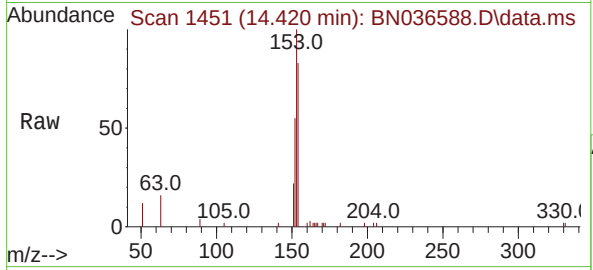
Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB167057BS



Tgt Ion:154 Resp: 3280

Ion Ratio Lower Upper

154 100

153 118.0 94.1 141.1

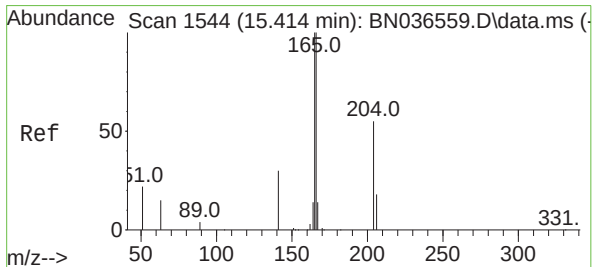
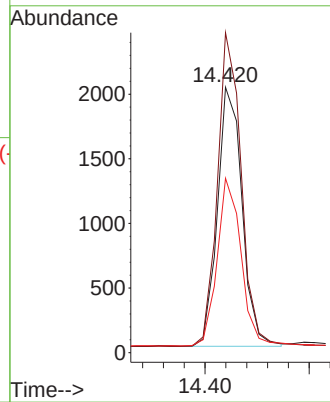
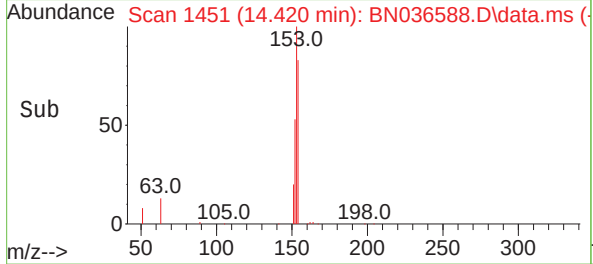
152 63.9 49.8 74.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



#18

Fluorene

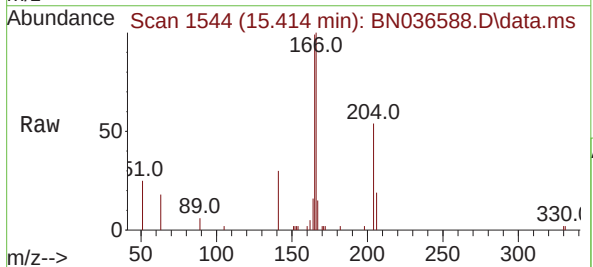
Concen: 0.410 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09



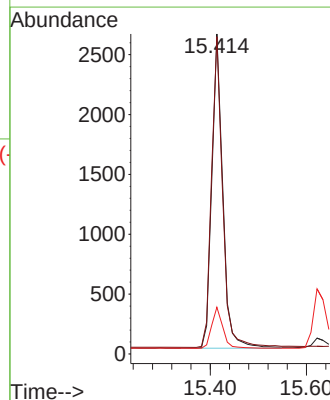
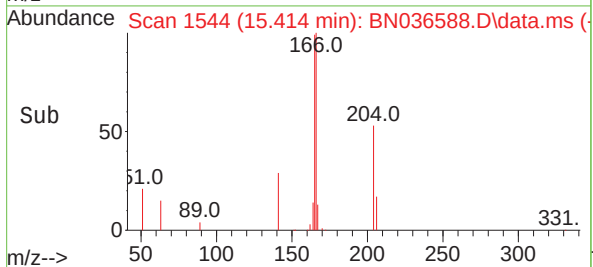
Tgt Ion:166 Resp: 4237

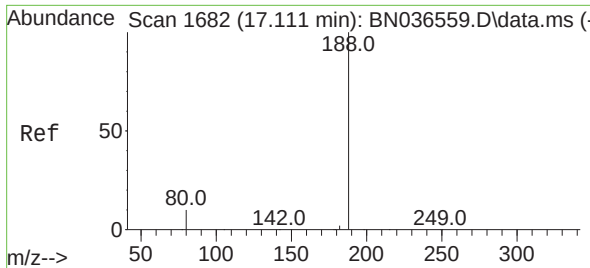
Ion Ratio Lower Upper

166 100

165 100.2 79.8 119.8

167 13.7 10.6 15.8





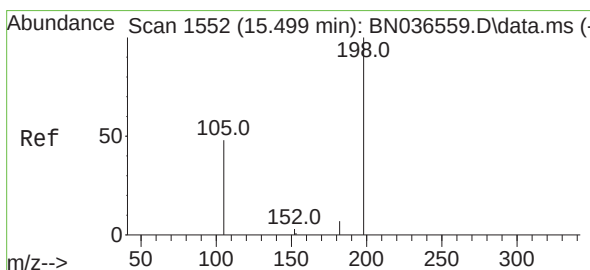
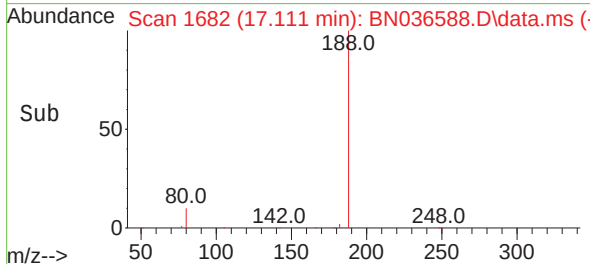
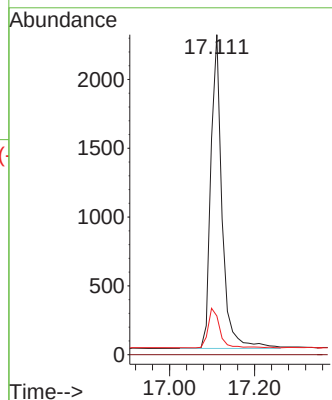
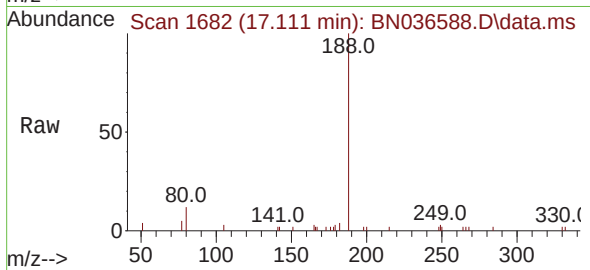
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

Tgt Ion:188 Resp: 4170
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 8.8 13.2

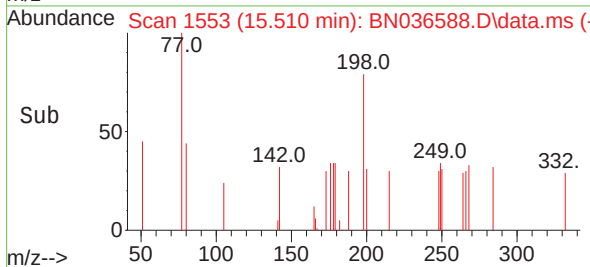
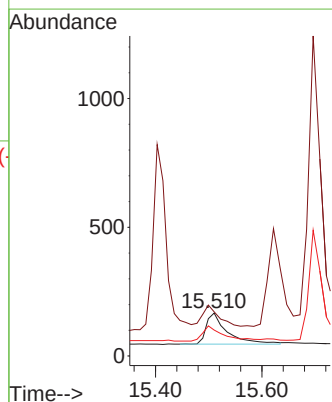
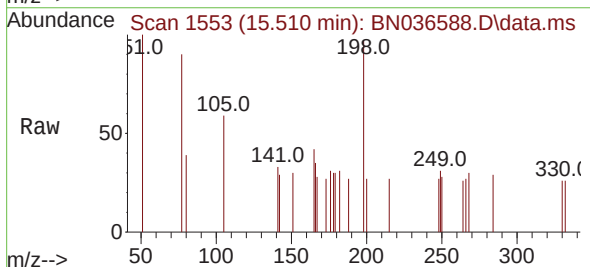
Manual Integrations
APPROVED

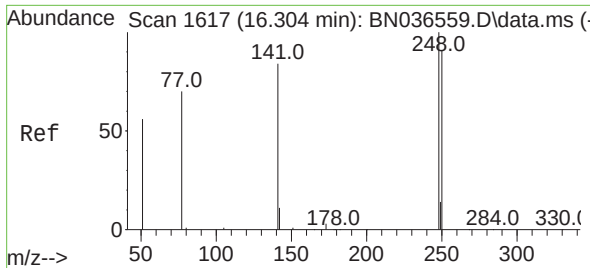
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.460 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

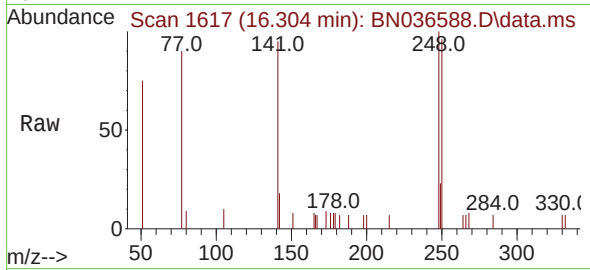
Tgt Ion:198 Resp: 335
Ion Ratio Lower Upper
198 100
51 103.0 107.9 161.9#
105 60.5 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.480 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

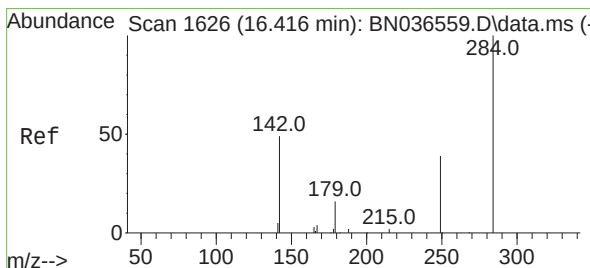
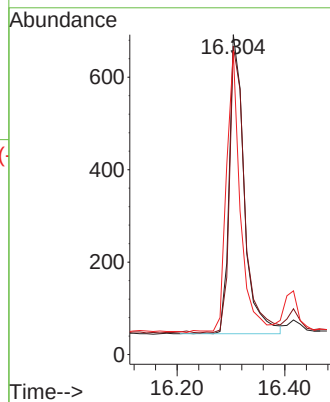
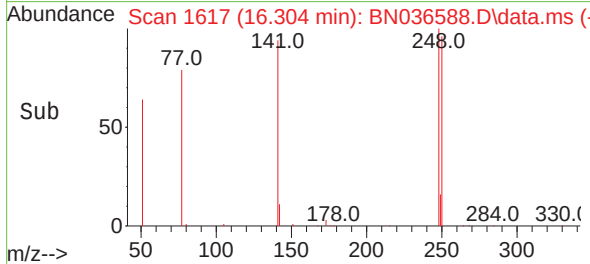
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:248 Resp: 1250
Ion Ratio Lower Upper
248 100
250 96.4 73.0 109.6
141 94.8 68.6 103.0

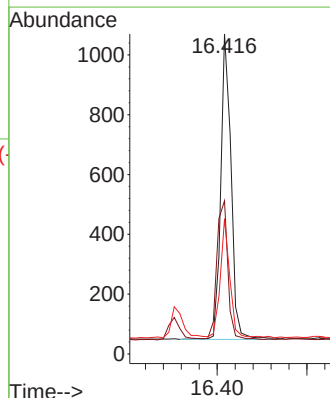
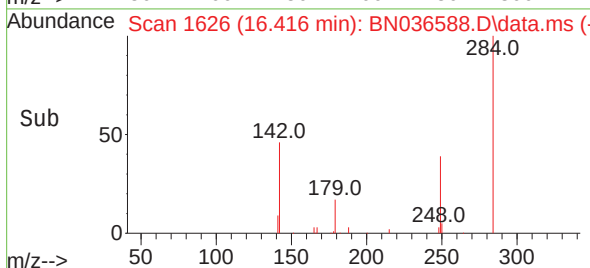
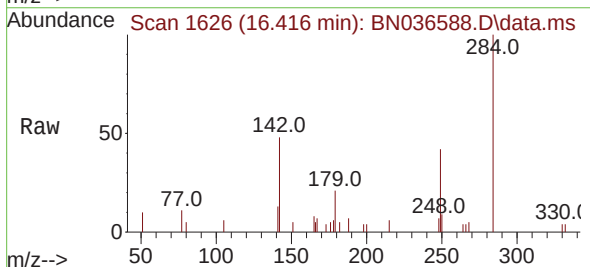
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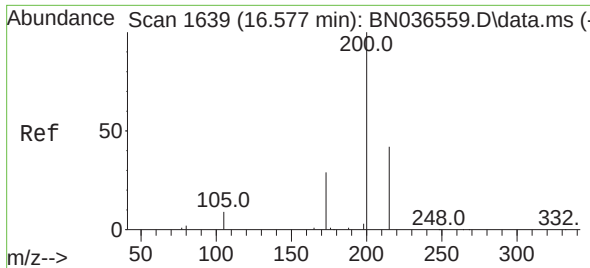
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#22
Hexachlorobenzene
Concen: 0.513 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

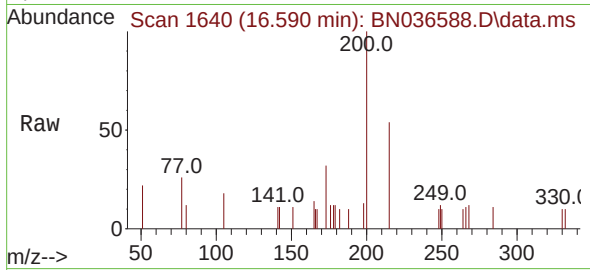
Tgt Ion:284 Resp: 1619
Ion Ratio Lower Upper
284 100
142 48.5 37.0 55.4
249 35.0 28.1 42.1





#23
Atrazine
Concen: 0.499 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

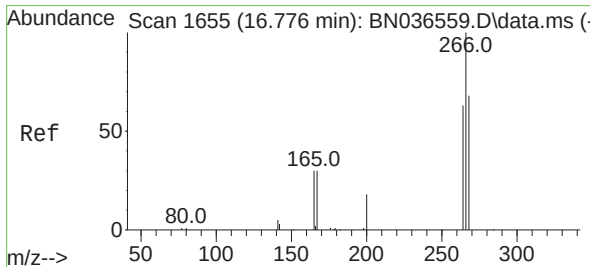
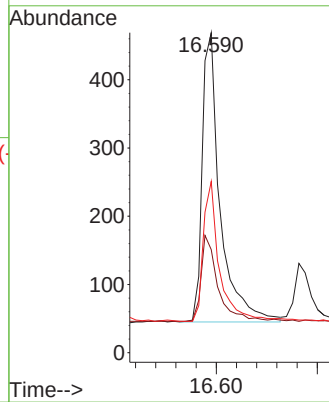
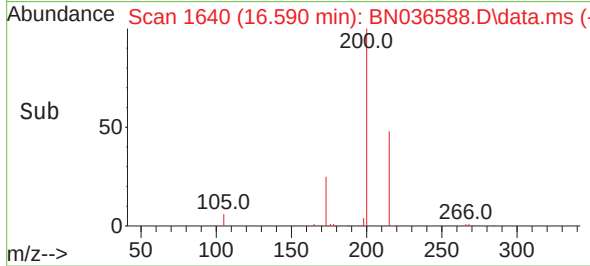
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:200 Resp: 1040
Ion Ratio Lower Upper
200 100
173 32.2 27.3 40.9
215 53.5 36.8 55.2

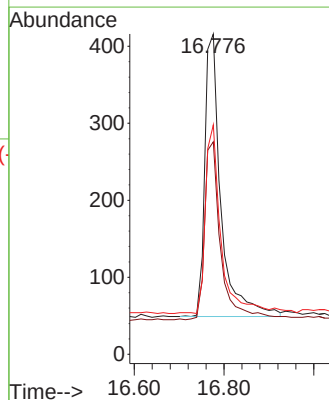
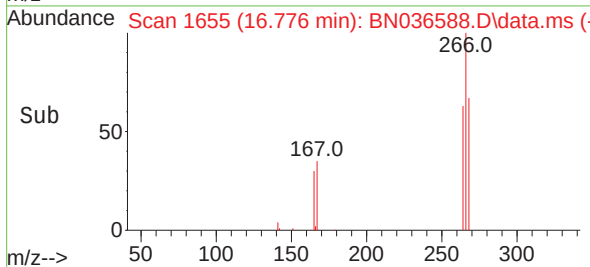
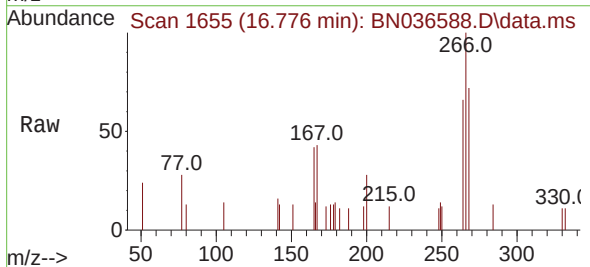
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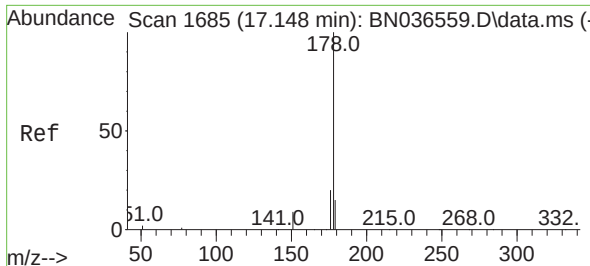
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#24
Pentachlorophenol
Concen: 0.637 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:266 Resp: 917
Ion Ratio Lower Upper
266 100
264 62.4 49.6 74.4
268 64.8 50.9 76.3





#25

Phenanthrene

Concen: 0.481 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

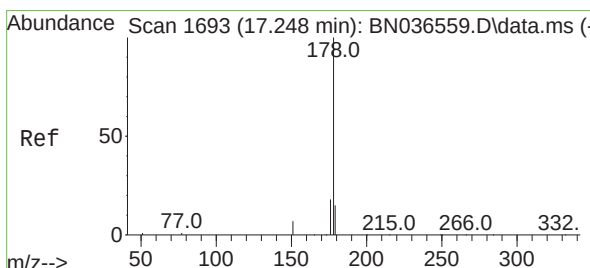
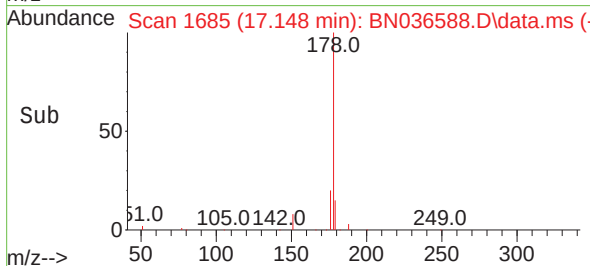
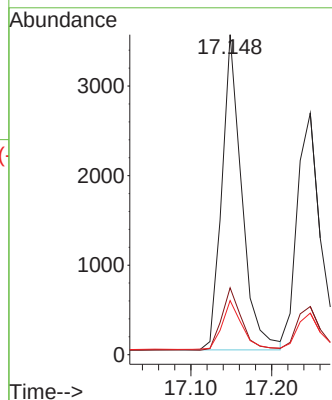
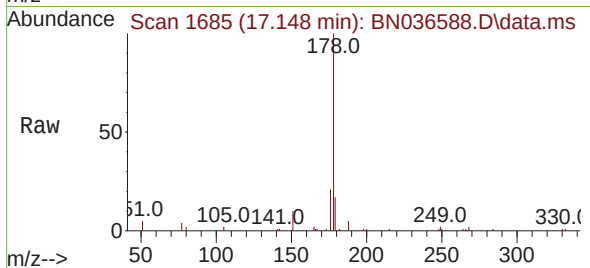
Instrument :

BNA_N

ClientSampleId :

PB167057BS

Tgt Ion:178	Resp:	6029
Ion Ratio	Lower	Upper
178	100	
176	20.1	15.9 23.9
179	15.7	12.2 18.4

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Supervised By :Jagrut Upadhyay 03/12/2025

#26

Anthracene

Concen: 0.496 ng

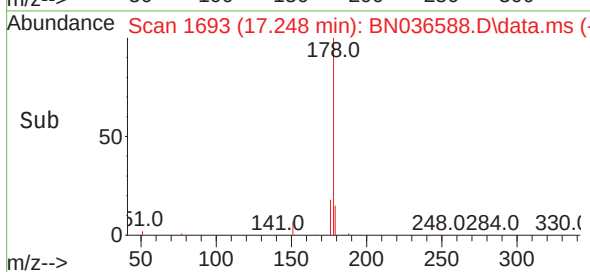
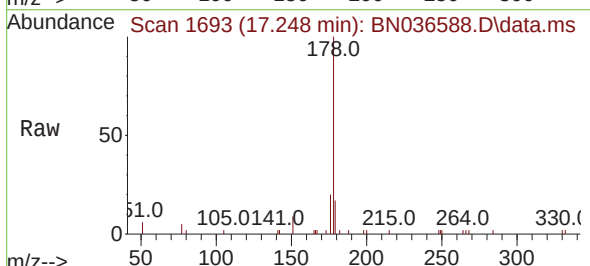
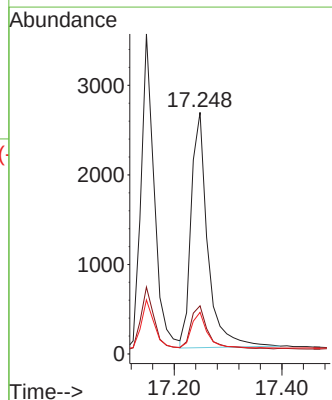
RT: 17.248 min Scan# 1693

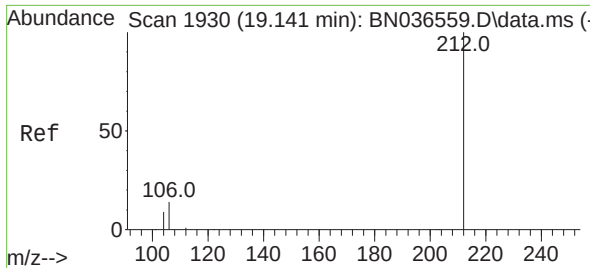
Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Tgt Ion:178	Resp:	5609
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.4 23.2
179	15.1	12.6 18.8





#27

Fluoranthene-d10

Concen: 0.388 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

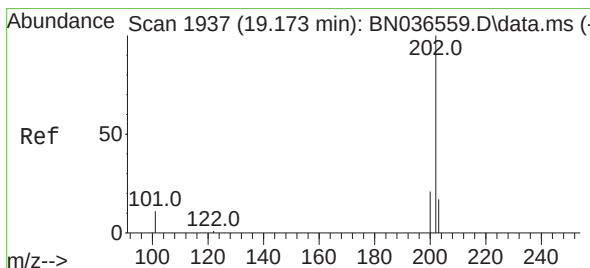
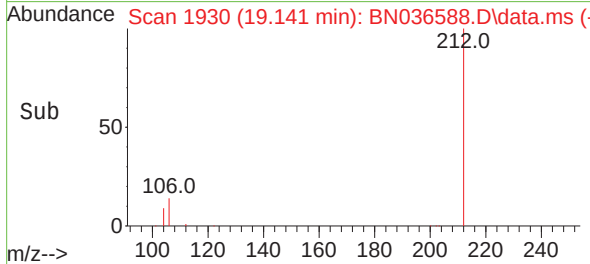
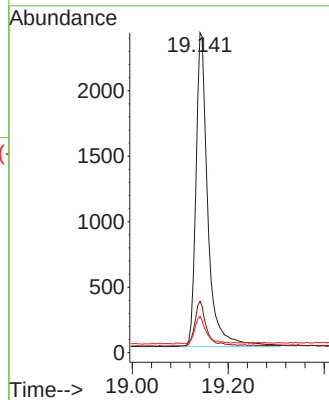
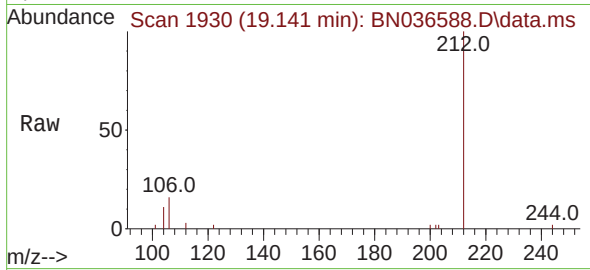
PB167057BS

Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.4	7.3	10.9

Manual Integrations

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Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#28

Fluoranthene

Concen: 0.427 ng

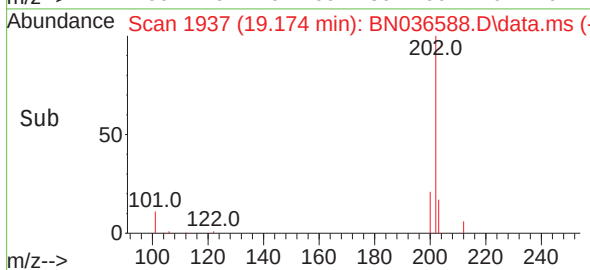
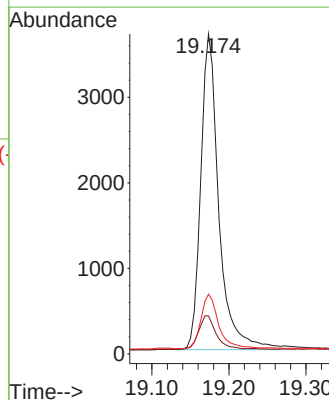
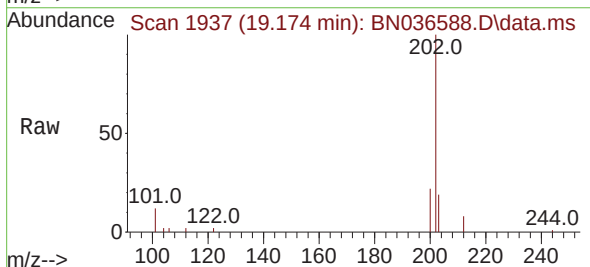
RT: 19.174 min Scan# 1937

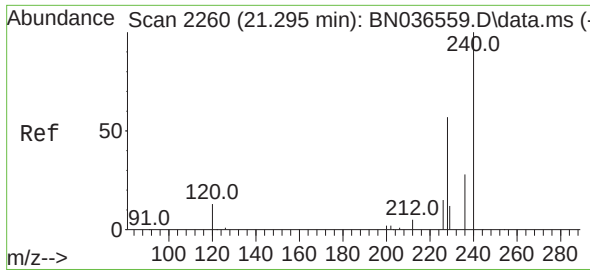
Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	17.2	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

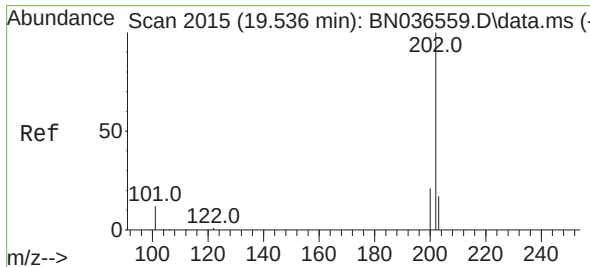
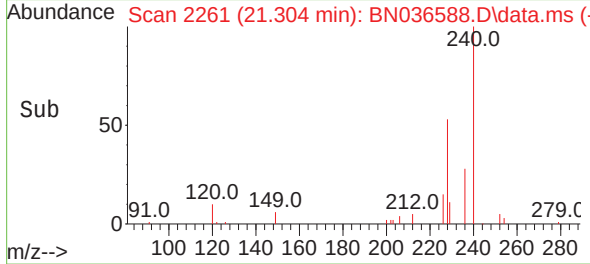
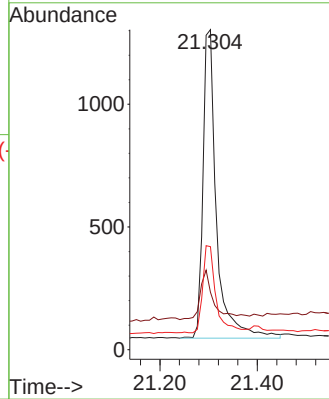
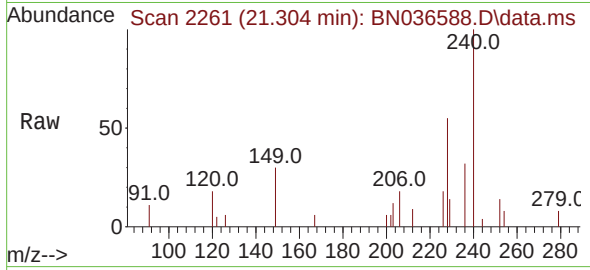
ClientSampleId :

PB167057BS

Tgt Ion:	240	Resp:	2420
Ion Ratio	Lower	Upper	
240	100		
120	17.9	14.6	22.0
236	32.2	24.1	36.1

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Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#30

Pyrene

Concen: 0.524 ng

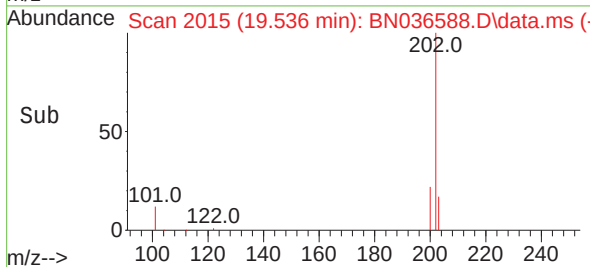
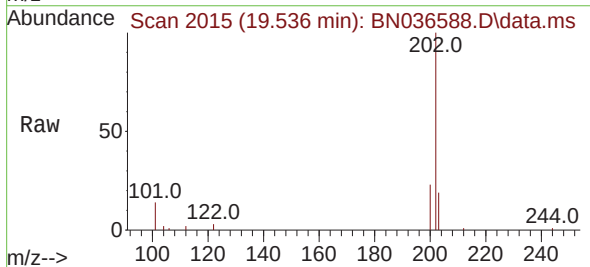
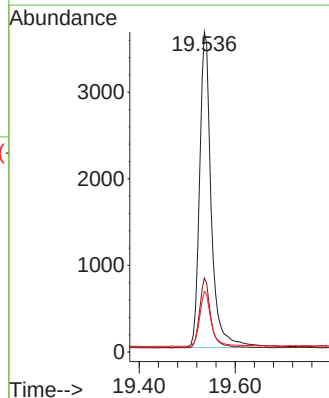
RT: 19.536 min Scan# 2015

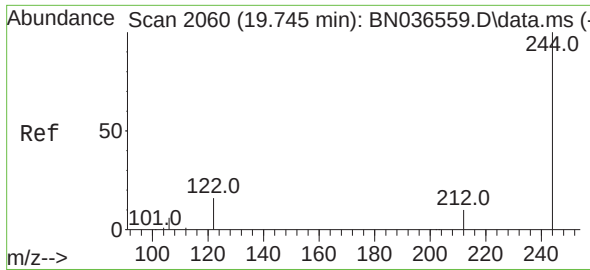
Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

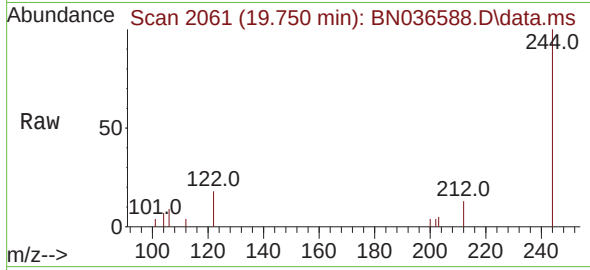
Tgt Ion:	202	Resp:	6199
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.1	25.7
203	17.4	14.1	21.1





#31
Terphenyl-d14
Concen: 0.471 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

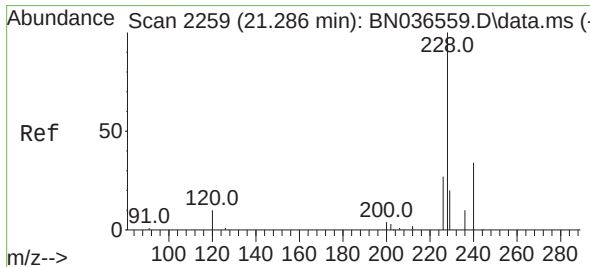
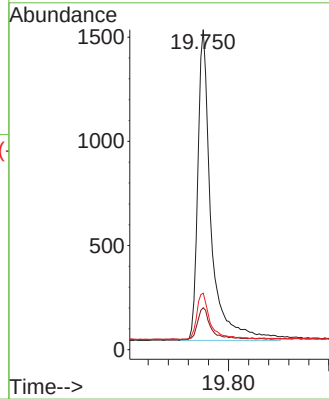
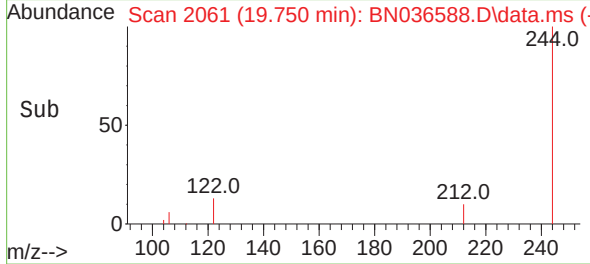
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:244 Resp: 273
Ion Ratio Lower Upper
244 100
212 13.1 9.6 14.4
122 17.6 13.9 20.9

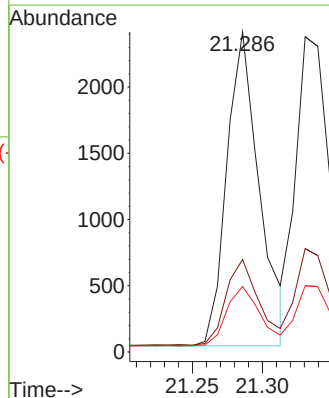
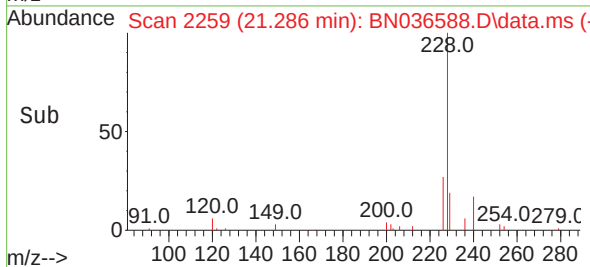
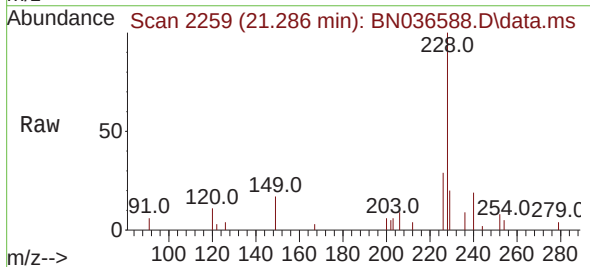
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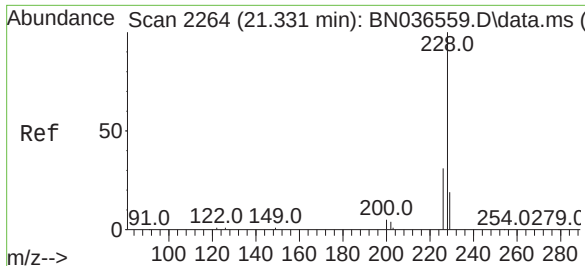
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#32
Benzo(a)anthracene
Concen: 0.456 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:228 Resp: 3838
Ion Ratio Lower Upper
228 100
226 28.9 22.5 33.7
229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.503 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

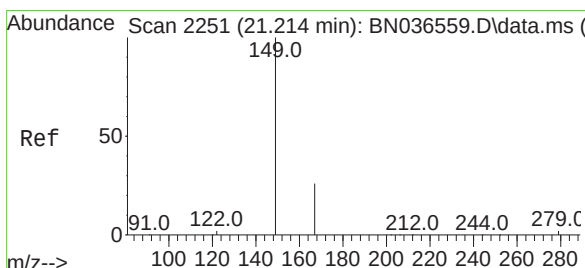
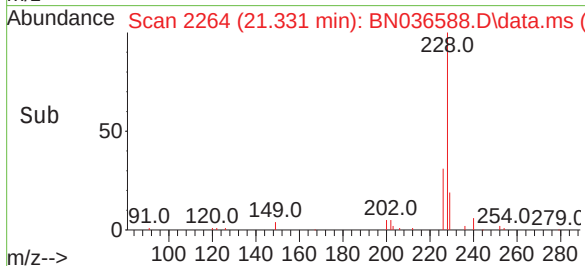
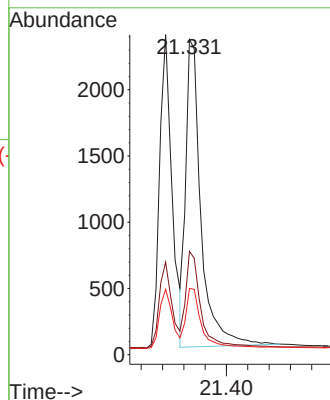
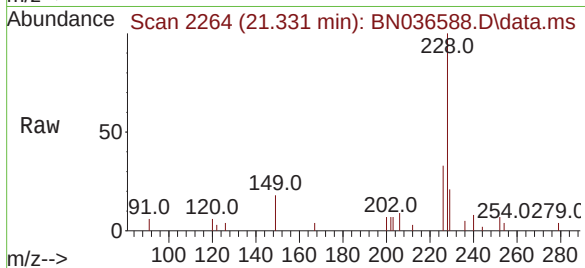
Instrument :

BNA_N

ClientSampleId :

PB167057BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.8	25.3	37.9
229	21.0	15.8	23.8

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Supervised By :Jagrut Upadhyay 03/12/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.445 ng

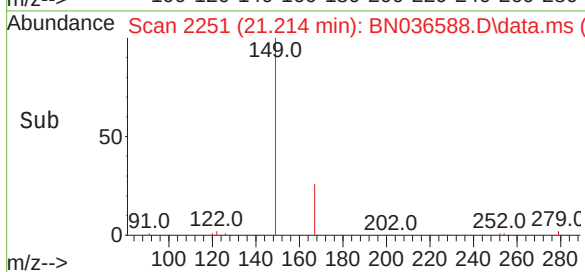
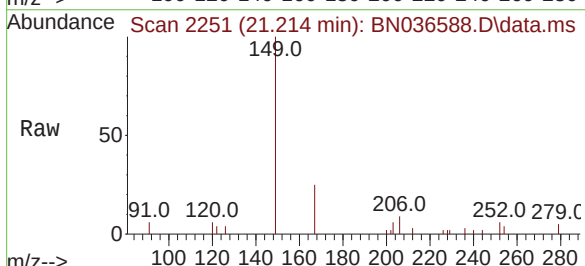
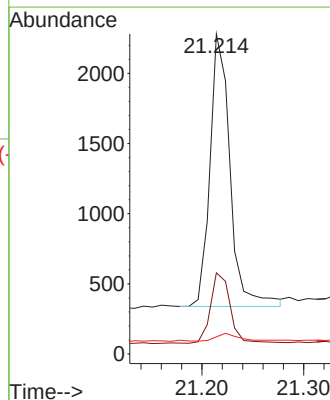
RT: 21.214 min Scan# 2251

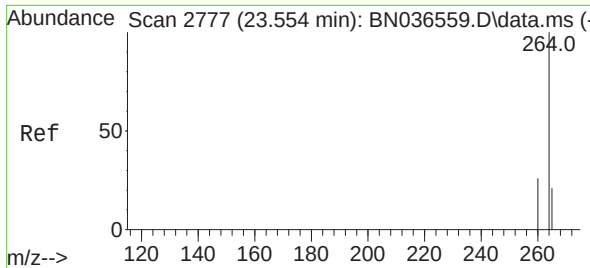
Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

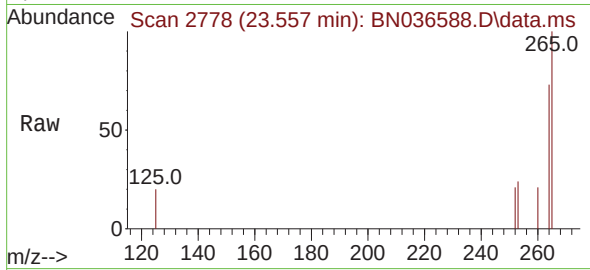
Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.7	31.1
279	2.9	3.6	5.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

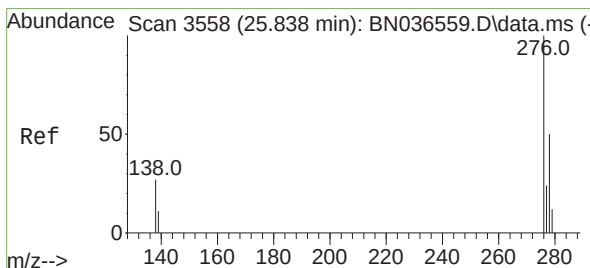
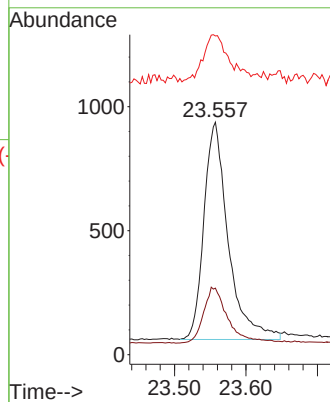
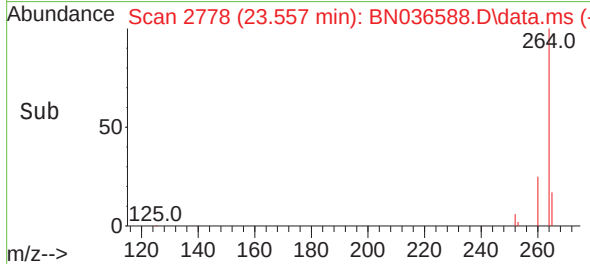
Instrument :
BNA_N
ClientSampleId :
PB167057BS



Tgt Ion:264 Resp: 2074
Ion Ratio Lower Upper
264 100
260 28.6 22.6 33.8
265 137.1 88.1 132.1

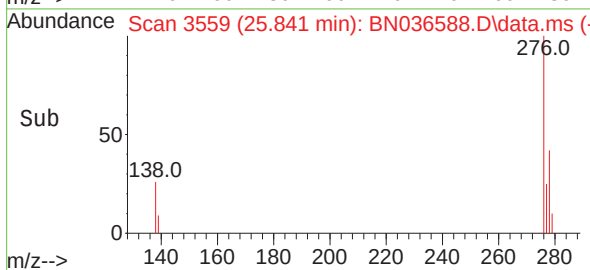
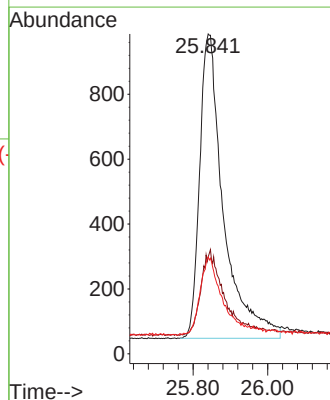
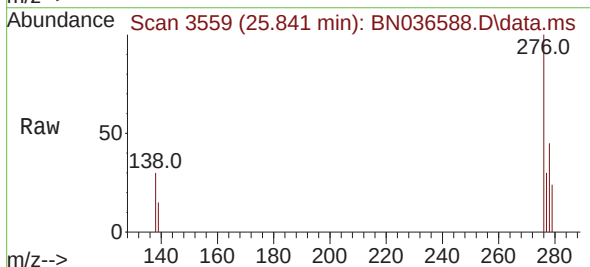
Manual Integrations
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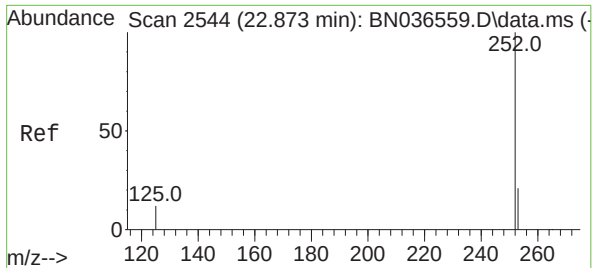
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.556 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:276 Resp: 4164
Ion Ratio Lower Upper
276 100
138 25.7 23.4 35.2
277 22.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.445 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

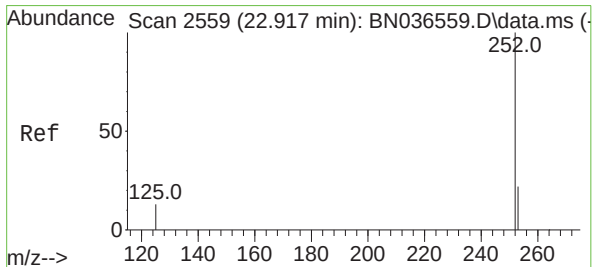
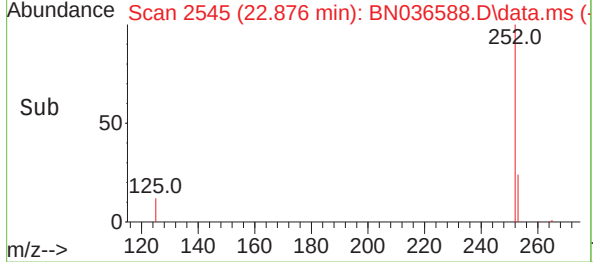
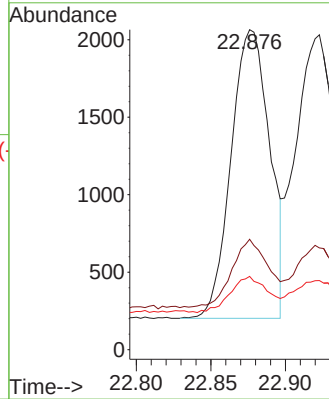
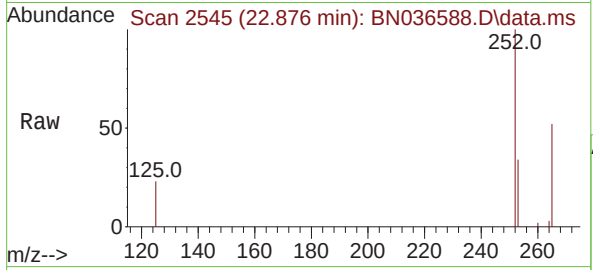
PB167057BS

Tgt Ion:252	Resp:	335
Ion Ratio	Lower	Upper
252	100	
253	34.5	23.9 35.9
125	22.9	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#38

Benzo(k)fluoranthene

Concen: 0.522 ng m

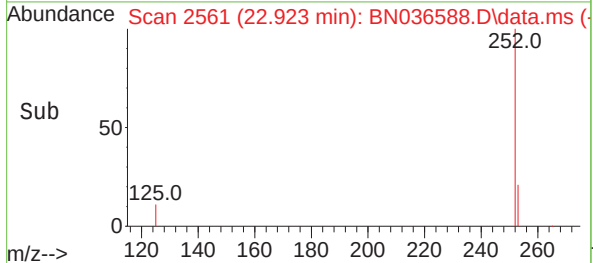
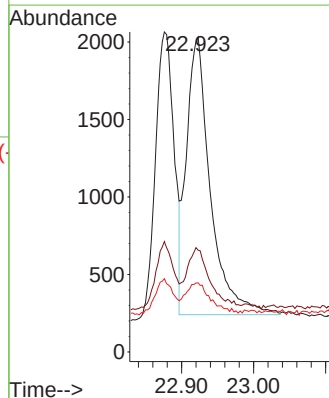
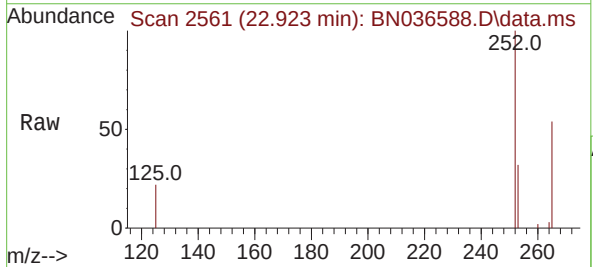
RT: 22.923 min Scan# 2561

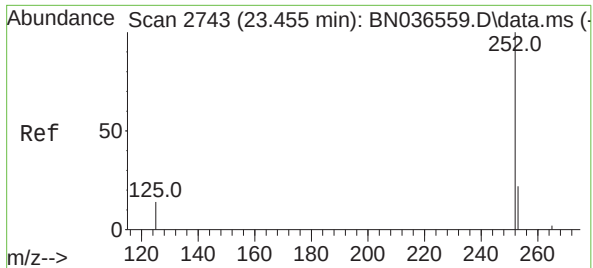
Delta R.T. 0.006 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Tgt Ion:252	Resp:	4137
Ion Ratio	Lower	Upper
252	100	
253	32.3	24.6 36.8
125	21.9	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.510 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036588.D

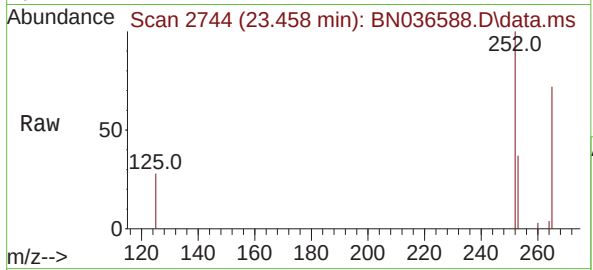
Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB167057BS



Tgt Ion:252 Resp: 324

Ion Ratio Lower Upper

252 100

253 36.7 27.8 41.8

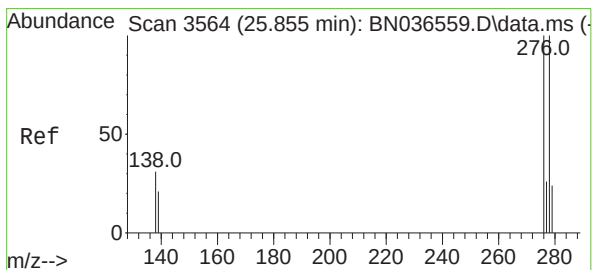
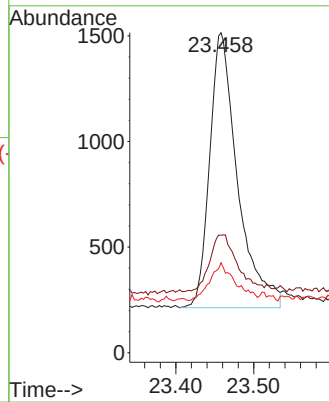
125 28.1 22.7 34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



#40

Dibenzo(a,h)anthracene

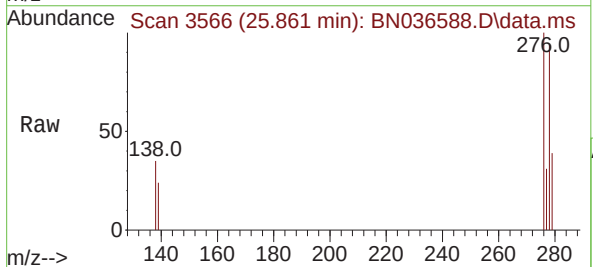
Concen: 0.545 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09



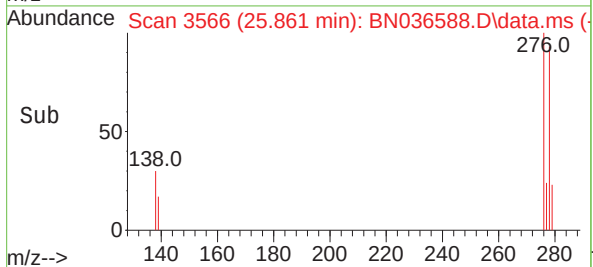
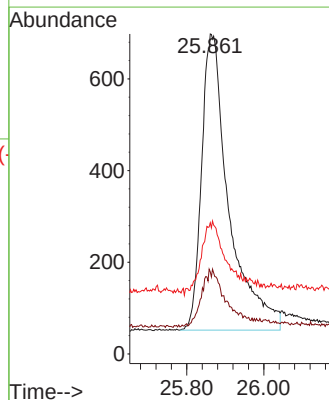
Tgt Ion:278 Resp: 3176

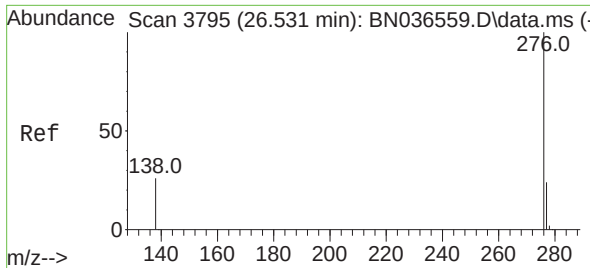
Ion Ratio Lower Upper

278 100

139 25.6 20.8 31.2

279 41.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.489 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036588.D

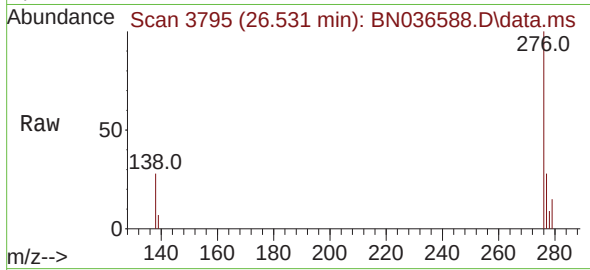
Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB167057BS



Tgt Ion: 276 Resp: 325

Ion Ratio Lower Upper

276 100

277 27.9 22.2 33.4

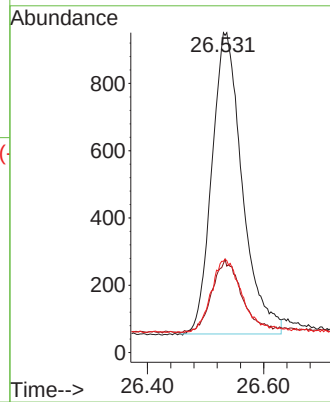
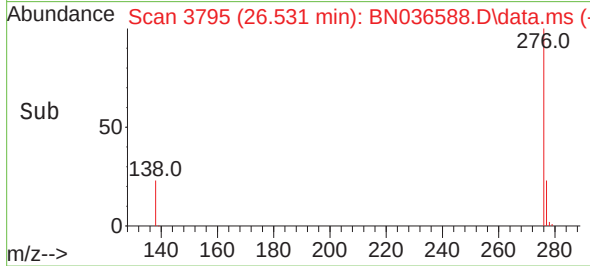
138 28.5 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/12/2025

Supervised By :Jagrut Upadhyay 03/12/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306MS	SDG No.:	Q1531
Lab Sample ID:	Q1531-08MS	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
BN036579.D	1	03/10/25 11:35	03/11/25 13:45	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	7.20	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		121%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970		7.724			
1146-65-2	Naphthalene-d8	4550		10.509			
15067-26-2	Acenaphthene-d10	2670		14.355			
1517-22-2	Phenanthrene-d10	5290		17.111			
1719-03-5	Chrysene-d12	3810		21.295			
1520-96-3	Perylene-d12	3100		23.554			

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\BN031125\
 Data File : BN036579.D
 Acq On : 11 Mar 2025 13:45
 Operator : RC/JU
 Sample : Q1531-08MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE103D1-20250306MS

Quant Time: Mar 11 14:07:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

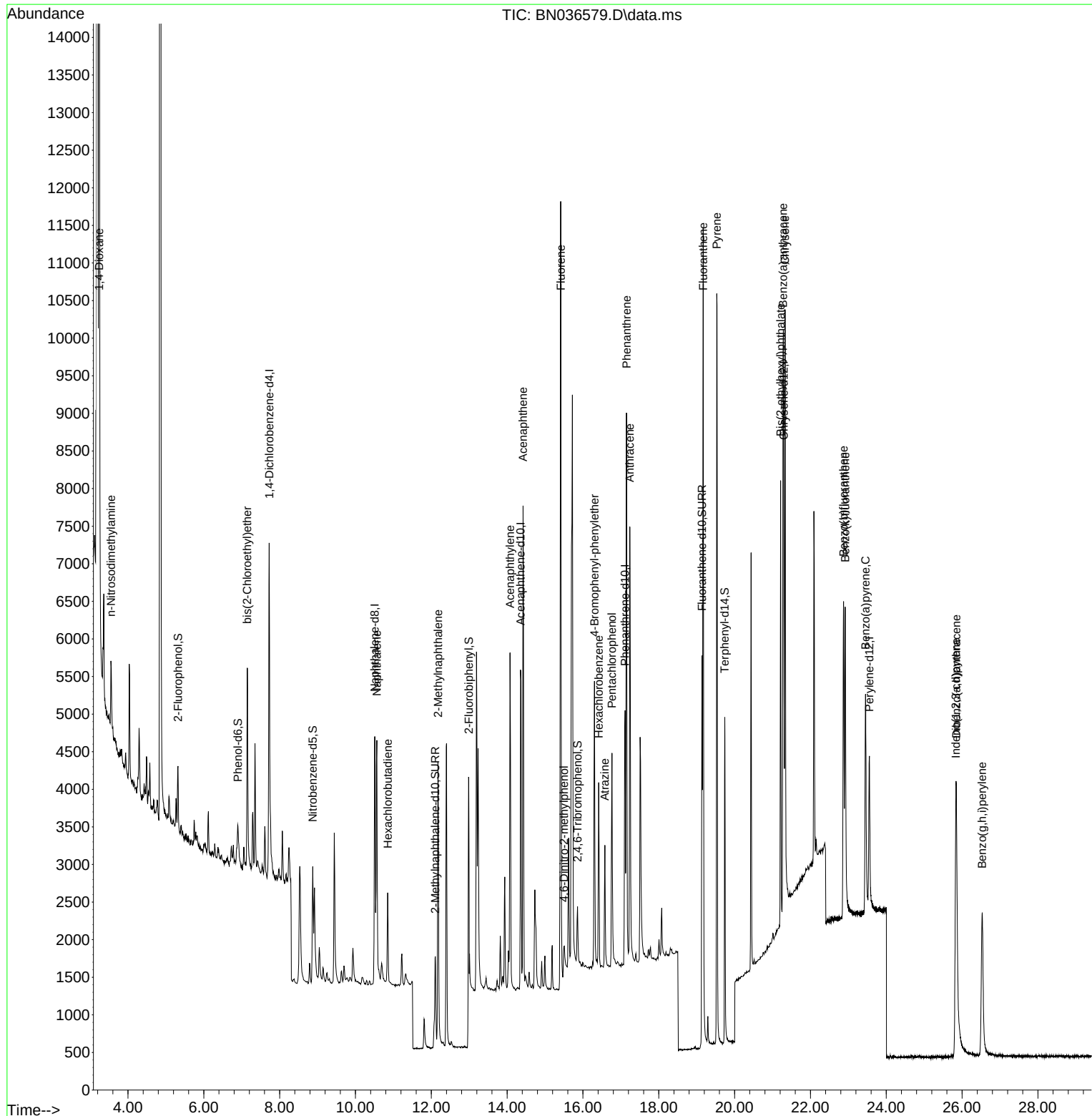
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1966	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4554	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2666	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5287	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3809	0.400	ng	0.00
35) Perylene-d12	23.554	264	3096	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	678	0.148	ng	0.00
5) Phenol-d6	6.901	99	481	0.085	ng	0.00
8) Nitrobenzene-d5	8.875	82	1420	0.287	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	2639	0.390	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	471	0.389	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5044	0.325	ng	0.00
27) Fluoranthene-d10	19.141	212	5901	0.435	ng	0.00
31) Terphenyl-d14	19.740	244	4410	0.483	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	15270	7.002	ng	97
3) n-Nitrosodimethylamine	3.550	42	804	0.182	ng	# 97
6) bis(2-Chloroethyl)ether	7.147	93	2001	0.342	ng	96
9) Naphthalene	10.562	128	4693	0.350	ng	99
10) Hexachlorobutadiene	10.850	225	956	0.303	ng	# 98
12) 2-Methylnaphthalene	12.177	142	3028	0.355	ng	99
16) Acenaphthylene	14.078	152	5093	0.405	ng	100
17) Acenaphthene	14.420	154	3200	0.389	ng	99
18) Fluorene	15.414	166	4423	0.397	ng	98
20) 4,6-Dinitro-2-methylph...	15.499	198	451	0.479	ng	# 77
21) 4-Bromophenyl-phenylether	16.304	248	1454	0.439	ng	90
22) Hexachlorobenzene	16.416	284	1681	0.420	ng	99
23) Atrazine	16.578	200	1449	0.546	ng	95
24) Pentachlorophenol	16.764	266	1496	0.820	ng	100
25) Phenanthrene	17.148	178	7638	0.482	ng	100
26) Anthracene	17.235	178	6937	0.485	ng	100
28) Fluoranthene	19.169	202	9138	0.513	ng	# 93
30) Pyrene	19.531	202	9436	0.507	ng	100
32) Benzo(a)anthracene	21.277	228	6388	0.482	ng	99
33) Chrysene	21.331	228	7409	0.512	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4963	0.526	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	5521	0.494	ng	99
37) Benzo(b)fluoranthene	22.873	252	5536	0.491	ng	100
38) Benzo(k)fluoranthene	22.917	252	5823	0.493	ng	98
39) Benzo(a)pyrene	23.452	252	5125	0.540	ng	97
40) Dibenzo(a,h)anthracene	25.846	278	4290	0.493	ng	97
41) Benzo(g,h,i)perylene	26.531	276	4516	0.454	ng	98

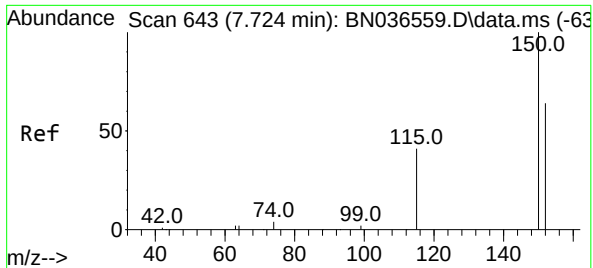
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036579.D
Acq On : 11 Mar 2025 13:45
Operator : RC/JU
Sample : Q1531-08MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

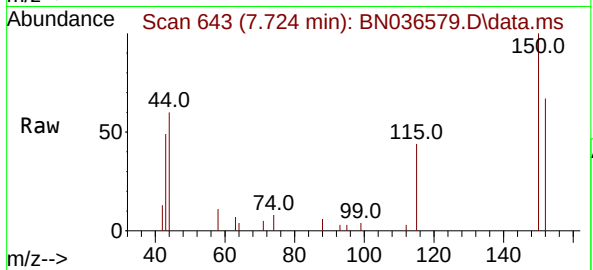
Quant Time: Mar 11 14:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



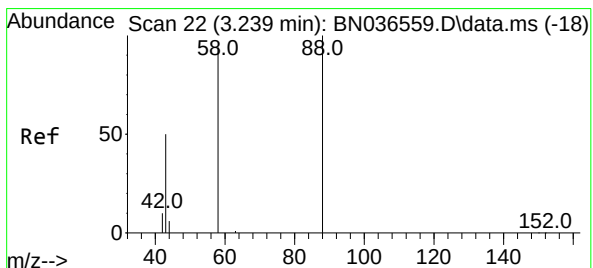
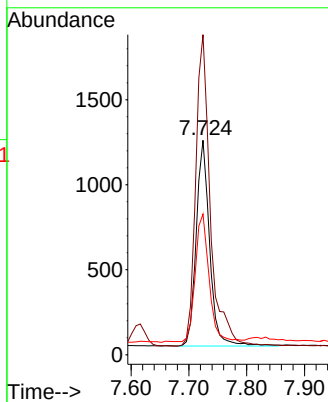
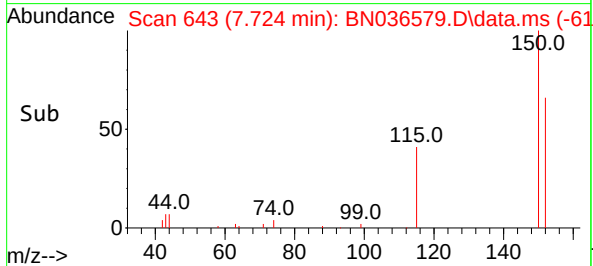


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

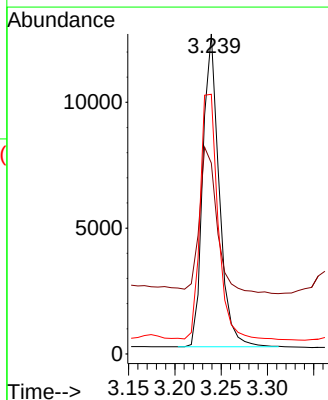
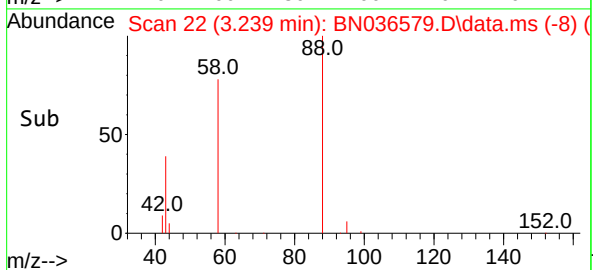
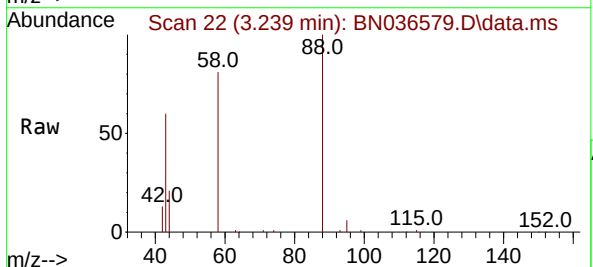


Tgt Ion:152 Resp: 1966
Ion Ratio Lower Upper
152 100
150 149.2 123.7 185.5
115 65.6 54.3 81.5

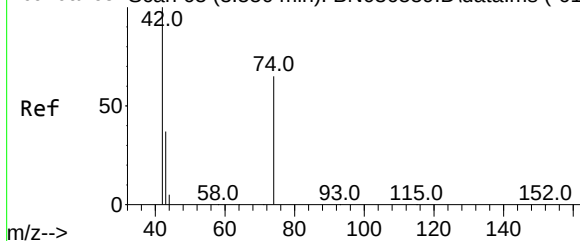


#2
1,4-Dioxane
Concen: 7.002 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion: 88 Resp: 15270
Ion Ratio Lower Upper
88 100
43 50.8 37.8 56.8
58 86.4 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.182 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MS

Tgt Ion: 42 Resp: 804

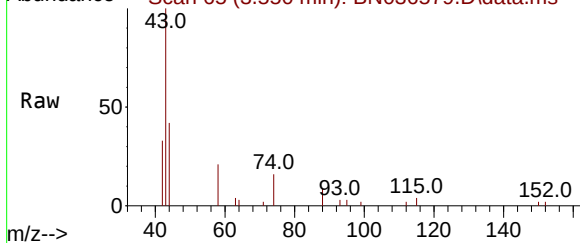
Ion Ratio Lower Upper

42 100

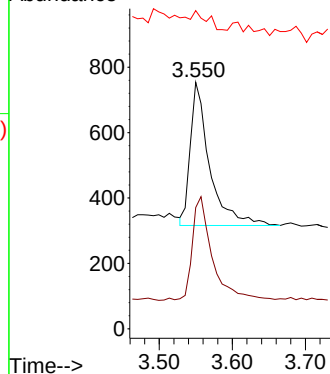
74 75.2 60.6 90.8

44 0.0 6.3 9.5#

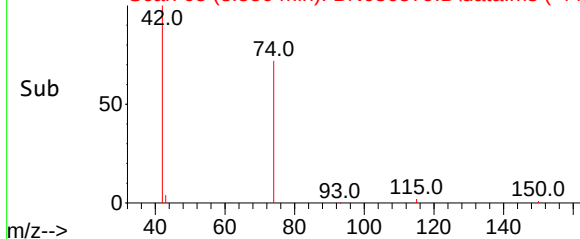
Abundance Scan 65 (3.550 min): BN036579.D\data.ms



Abundance

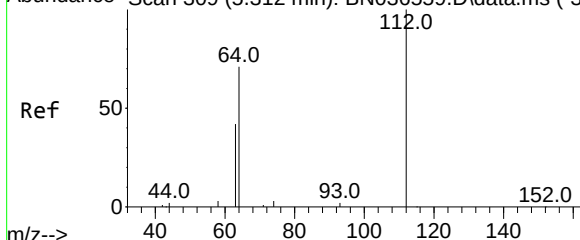


Abundance Scan 65 (3.550 min): BN036579.D\data.ms (-44)



Time-->

Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.148 ng

RT: 5.319 min Scan# 310

Delta R.T. 0.007 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

Tgt Ion: 112 Resp: 678

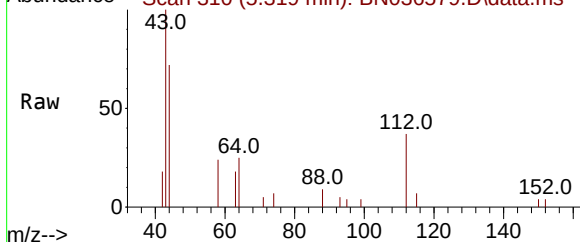
Ion Ratio Lower Upper

112 100

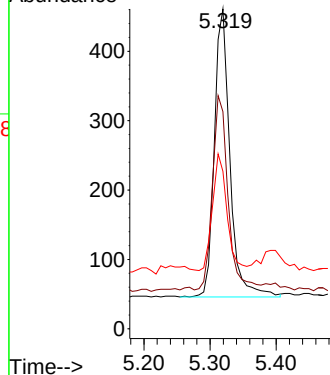
64 71.4 53.1 79.7

63 39.1 31.8 47.8

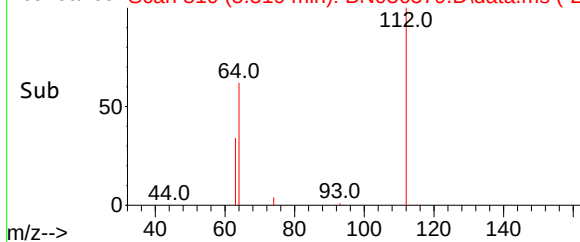
Abundance Scan 310 (5.319 min): BN036579.D\data.ms



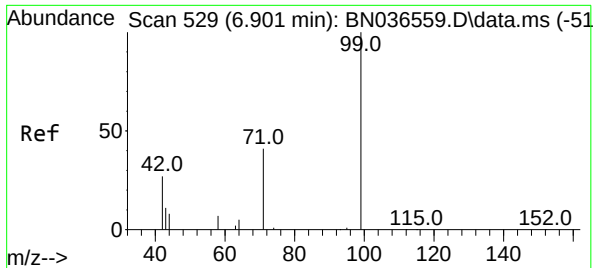
Abundance



Abundance Scan 310 (5.319 min): BN036579.D\data.ms (-28)



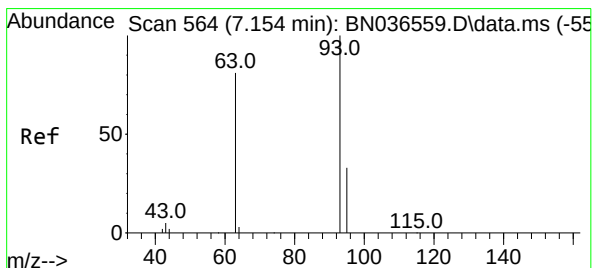
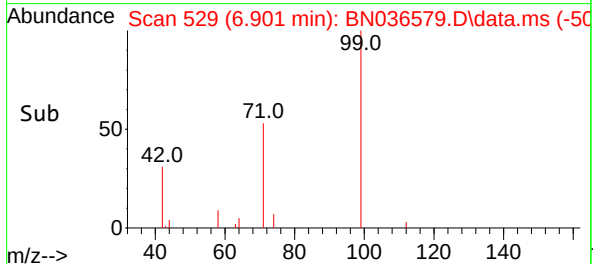
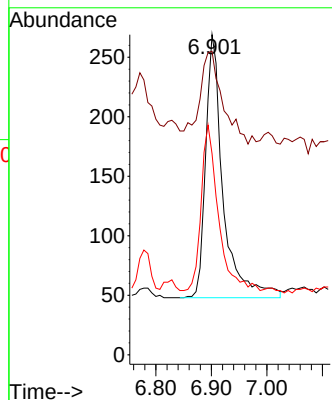
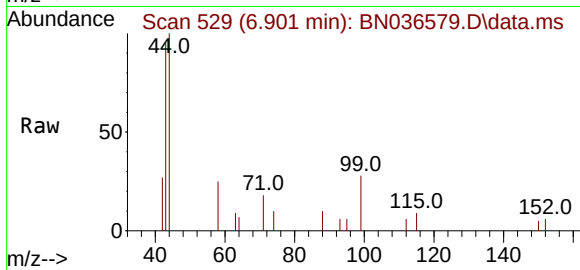
Time-->



#5
Phenol-d6
Concen: 0.085 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

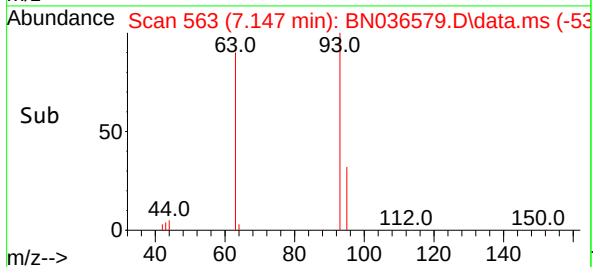
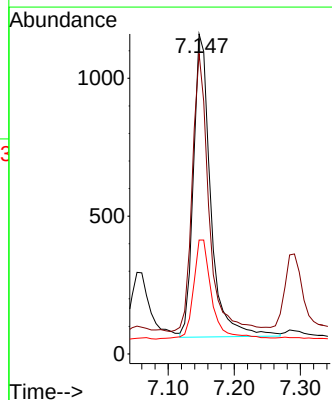
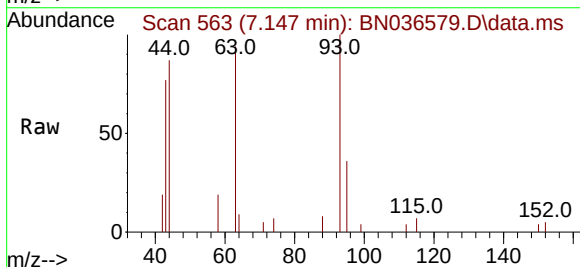
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

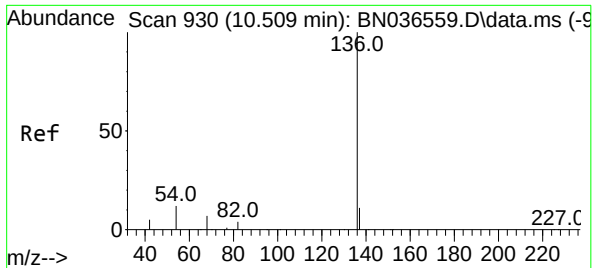
Tgt Ion: 99 Resp: 481
Ion Ratio Lower Upper
99 100
42 46.8 26.5 39.7#
71 61.7 34.1 51.1#



#6
bis(2-Chloroethyl)ether
Concen: 0.342 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion: 93 Resp: 2001
Ion Ratio Lower Upper
93 100
63 88.2 67.7 101.5
95 34.8 25.6 38.4

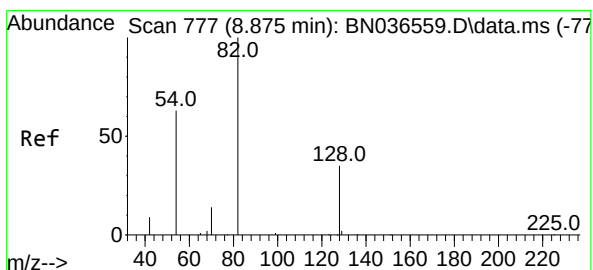
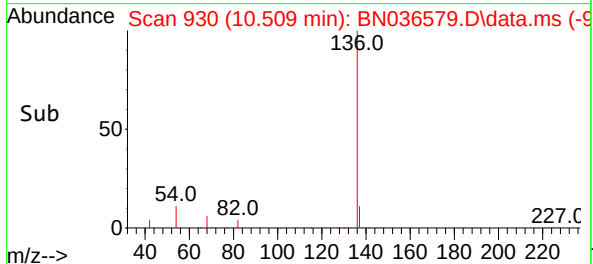
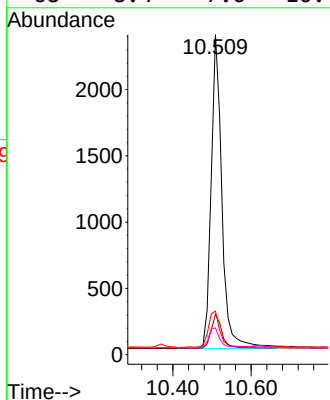
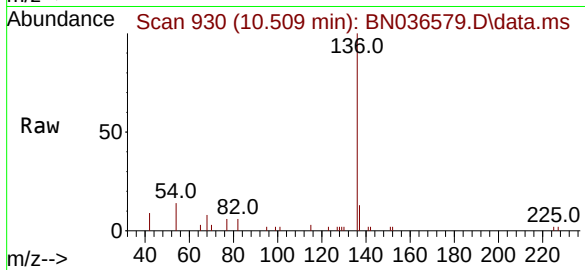




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

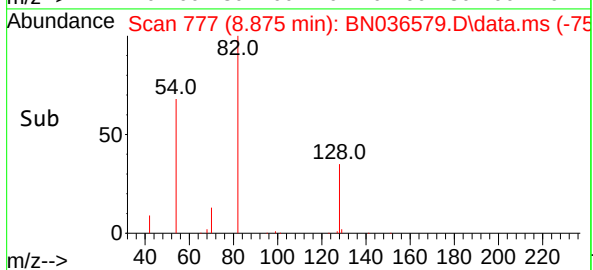
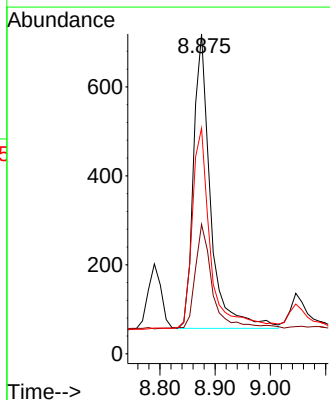
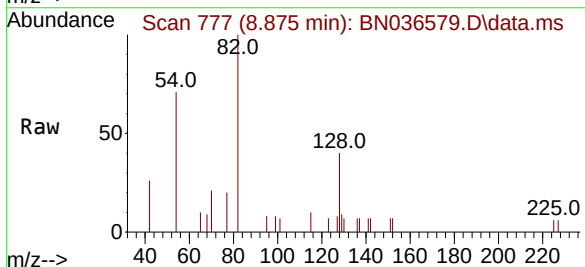
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

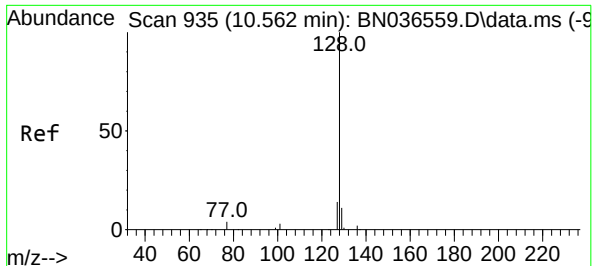
Tgt Ion:	136	Resp:	4554
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.7	11.5	17.3
68	8.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.287 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:	82	Resp:	1420
Ion	Ratio	Lower	Upper
82	100		
128	40.5	30.6	45.8
54	70.5	52.2	78.4

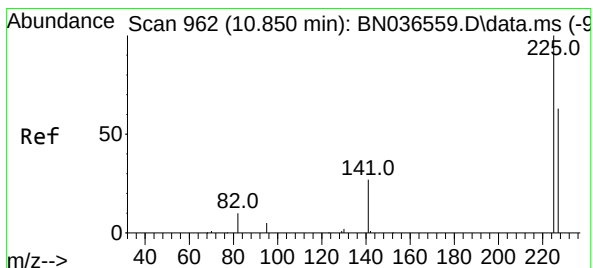
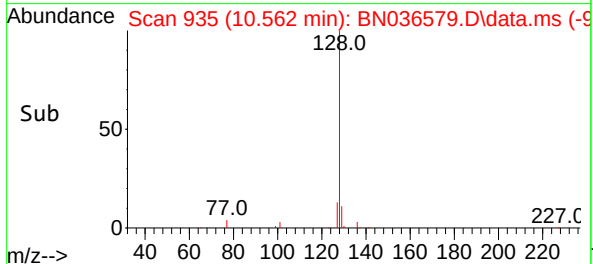
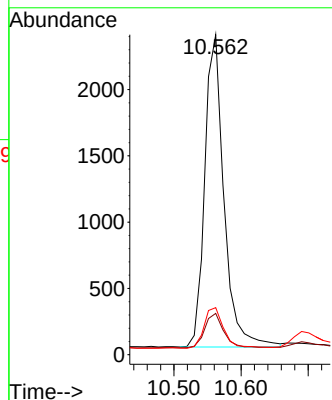
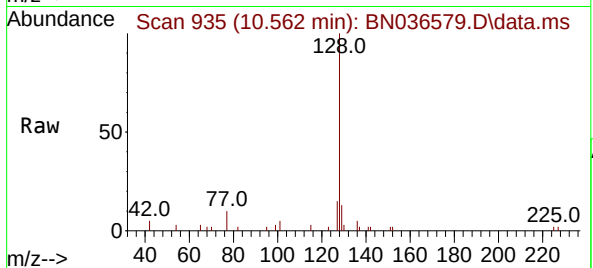




#9
Naphthalene
Concen: 0.350 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

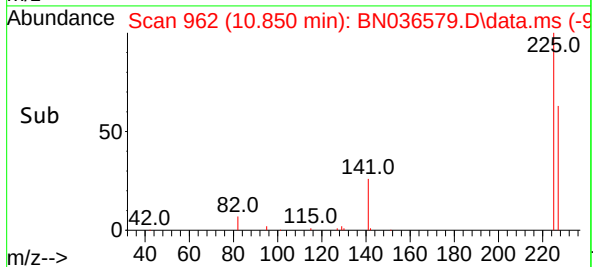
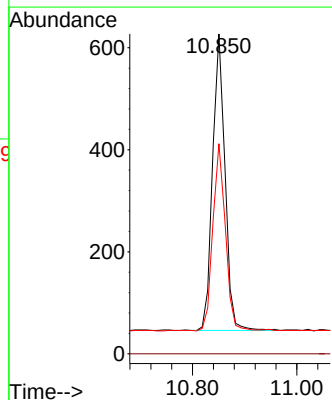
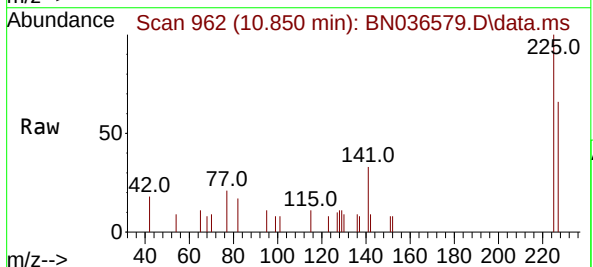
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

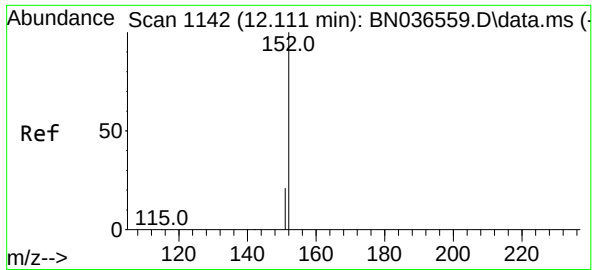
Tgt Ion:	128	Resp:	4693
Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.8	14.6
127	14.7	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.303 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:	225	Resp:	956
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.8	77.8

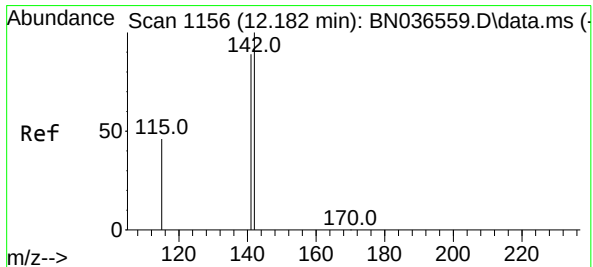
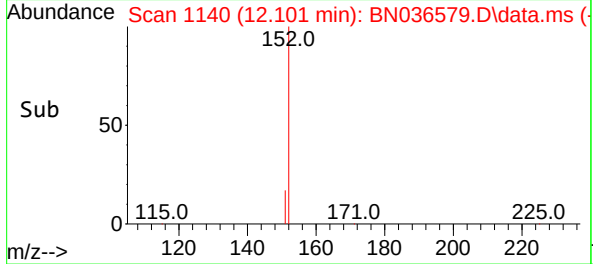
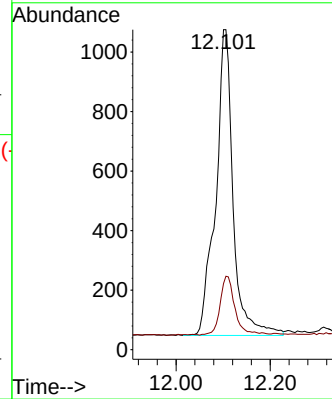
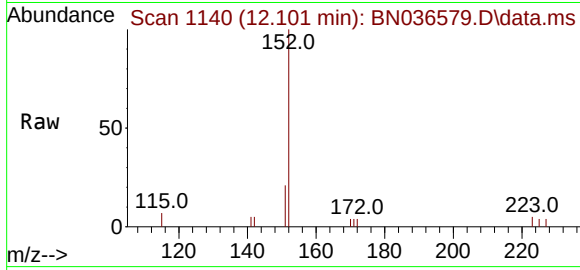




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

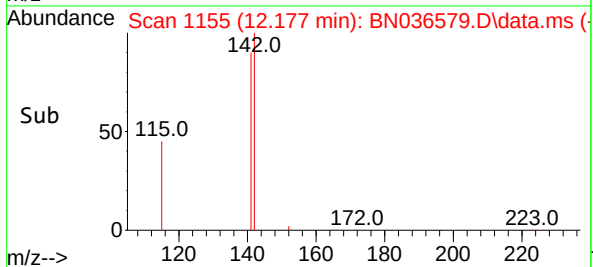
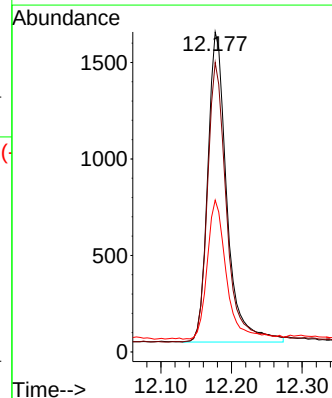
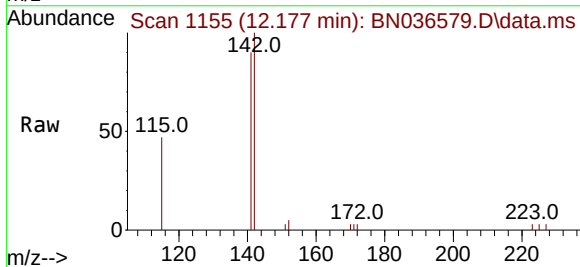
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

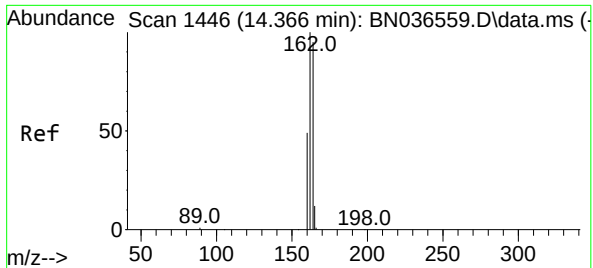
Tgt Ion:152 Resp: 2639
Ion Ratio Lower Upper
152 100
151 16.3 17.0 25.6#



#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:142 Resp: 3028
Ion Ratio Lower Upper
142 100
141 90.5 71.7 107.5
115 47.5 38.3 57.5

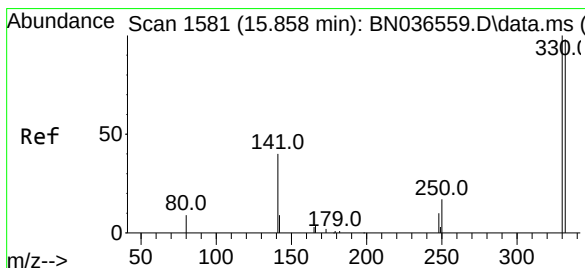
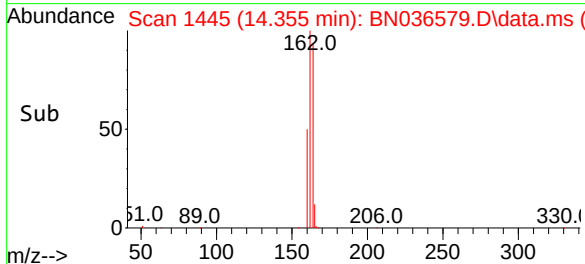
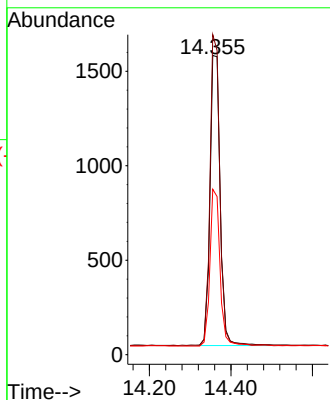
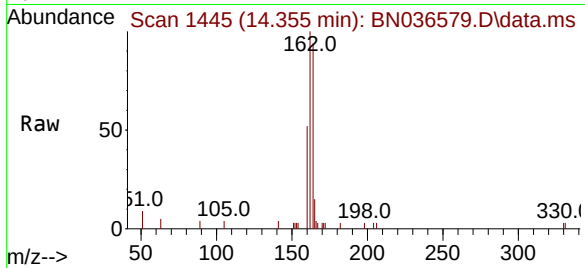




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

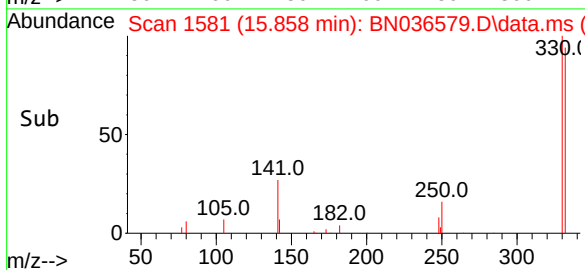
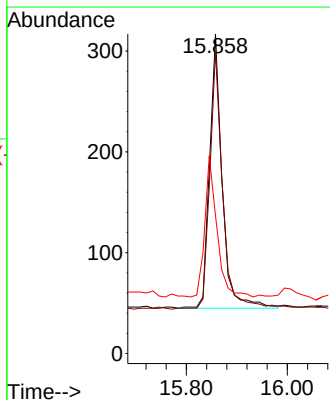
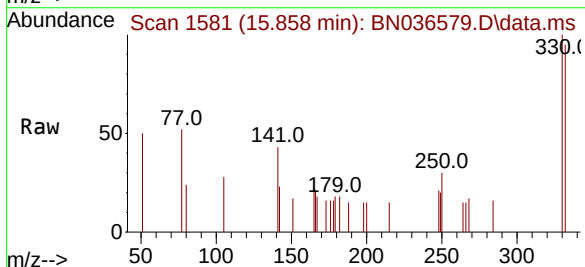
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

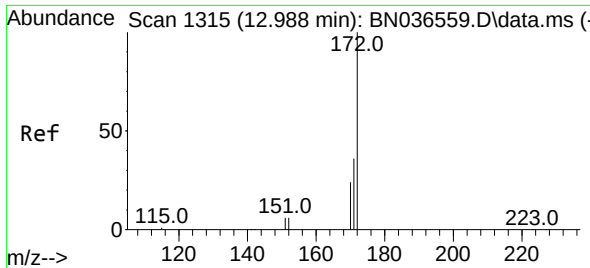
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	55.3	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.2	112.8
141	49.7	43.4	65.2

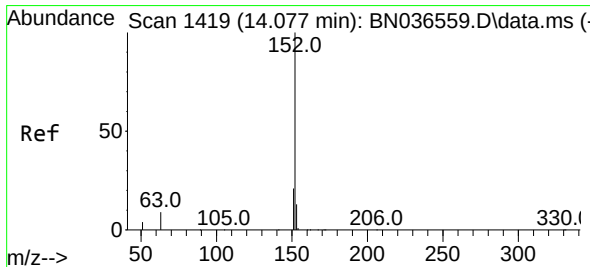
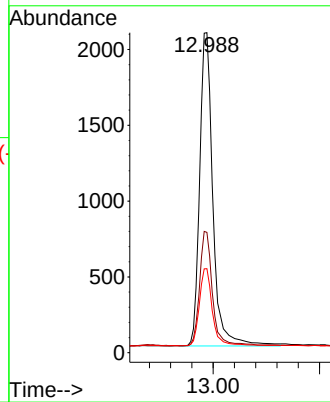
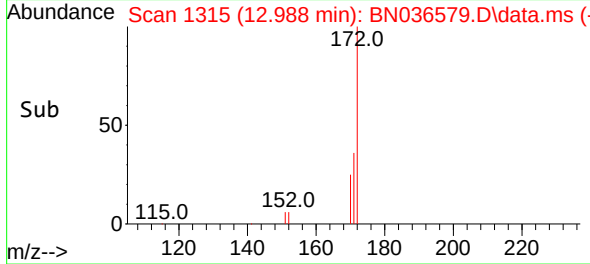
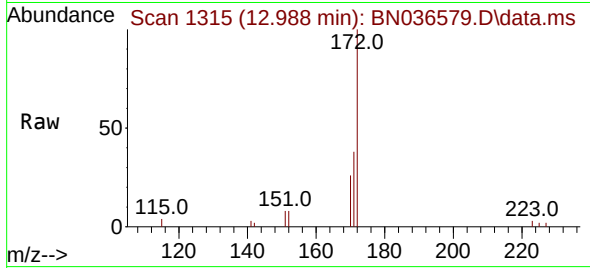




#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

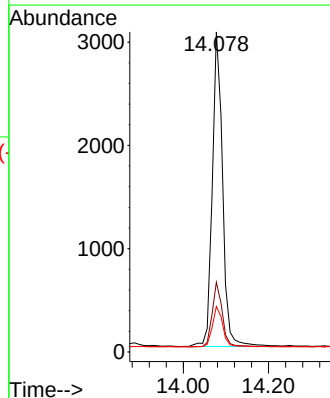
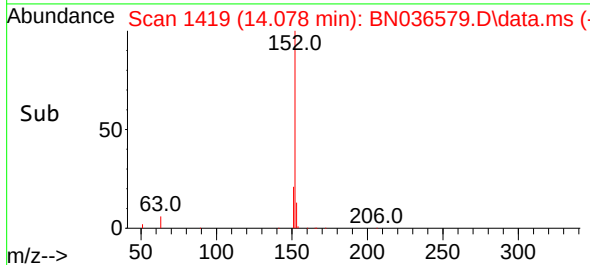
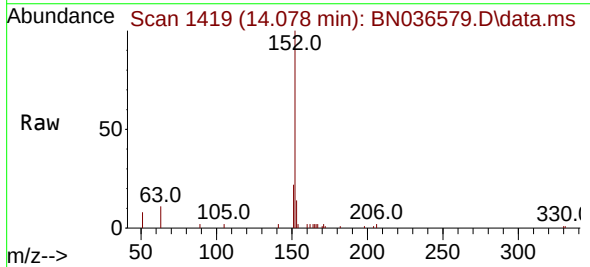
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

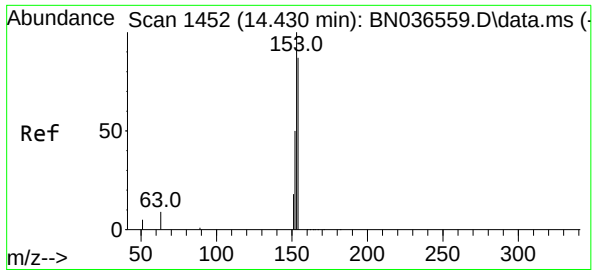
Tgt Ion:	172	Resp:	5044
Ion Ratio	Lower	Upper	
172	100		
171	37.6	29.5	44.3
170	26.2	20.2	30.4



#16
Acenaphthylene
Concen: 0.405 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:	152	Resp:	5093
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.2	24.4
153	13.3	10.6	15.8

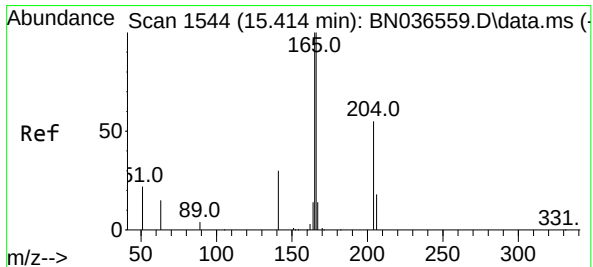
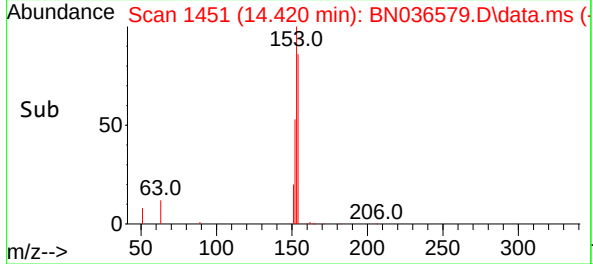
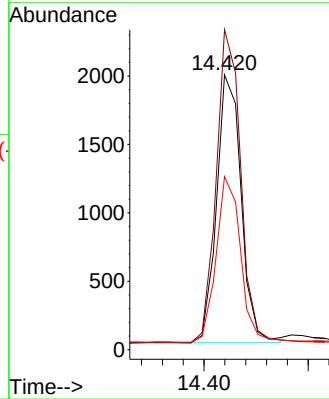
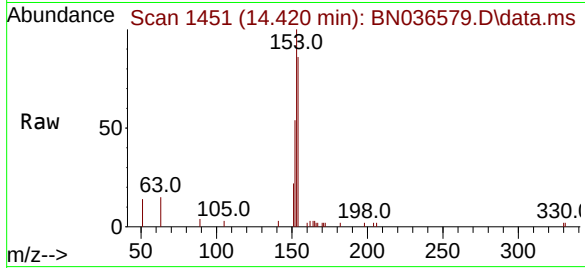




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

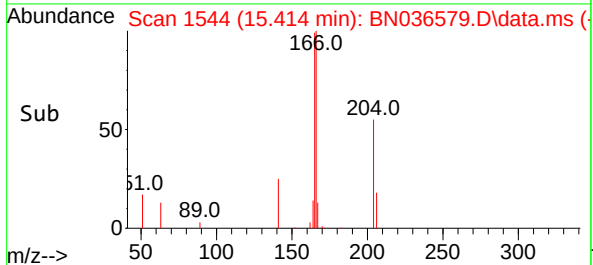
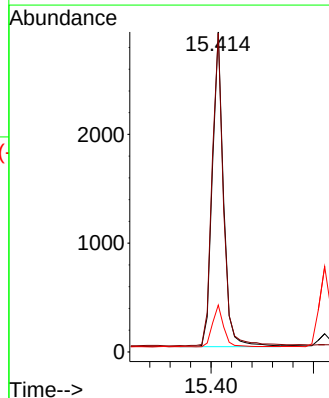
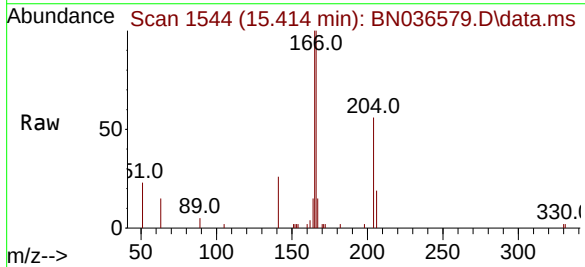
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

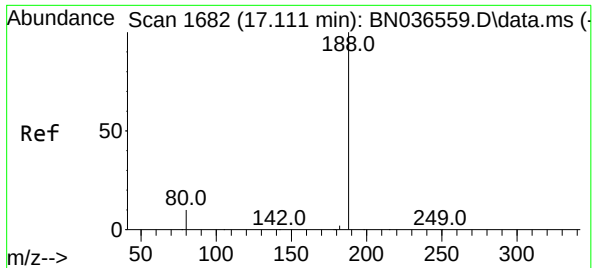
Tgt Ion:	154	Resp:	3200
Ion	Ratio	Lower	Upper
154	100		
153	116.9	94.1	141.1
152	62.7	49.8	74.6



#18
Fluorene
Concen: 0.397 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:	166	Resp:	4423
Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.8
167	13.0	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MS

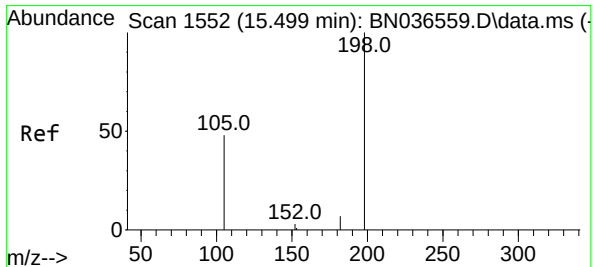
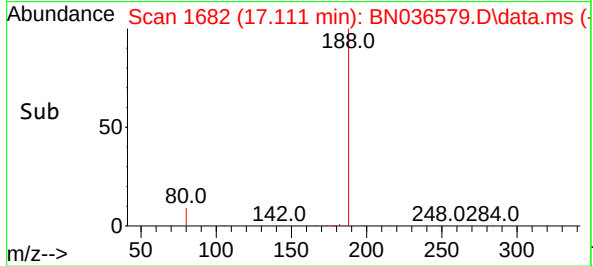
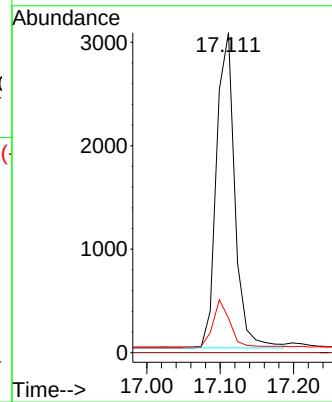
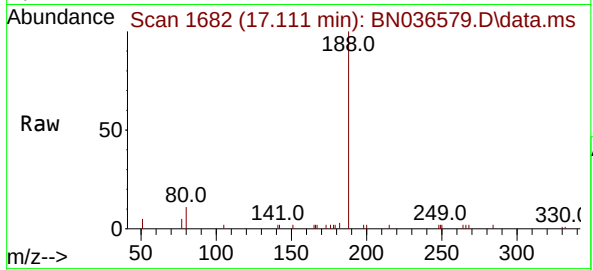
Tgt Ion:188 Resp: 5287

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.479 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

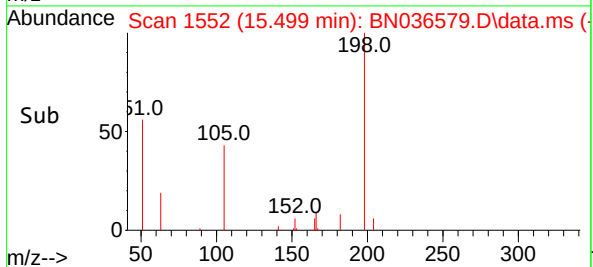
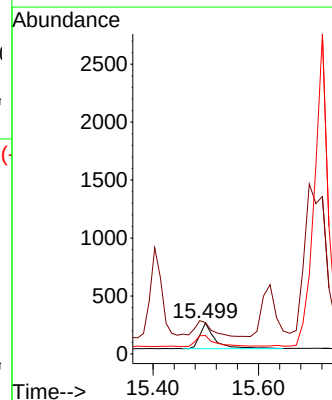
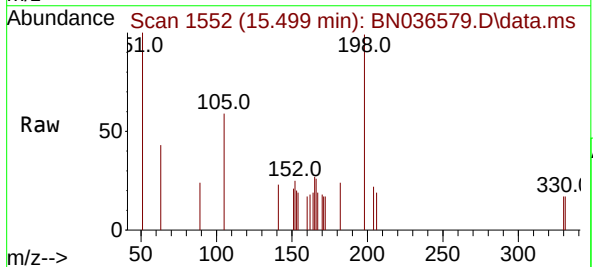
Tgt Ion:198 Resp: 451

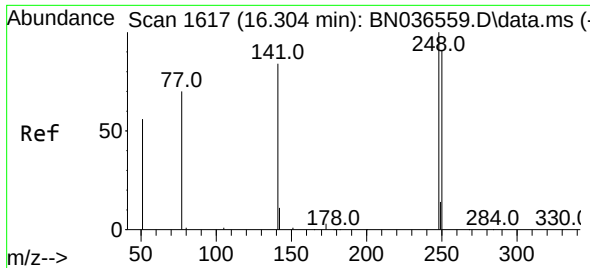
Ion Ratio Lower Upper

198 100

51 101.5 107.9 161.9#

105 59.8 56.2 84.2

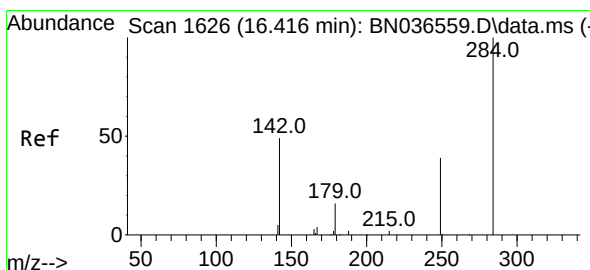
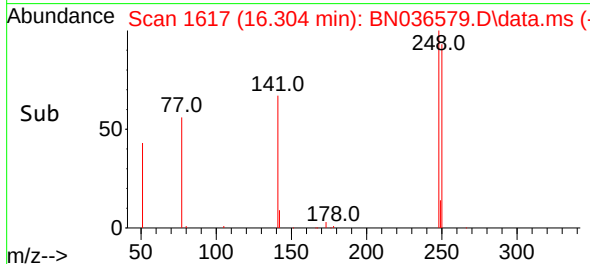
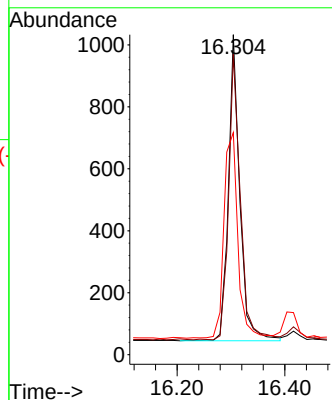
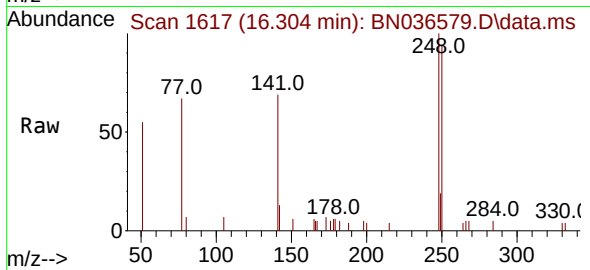




#21
4-Bromophenyl-phenylether
Concen: 0.439 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

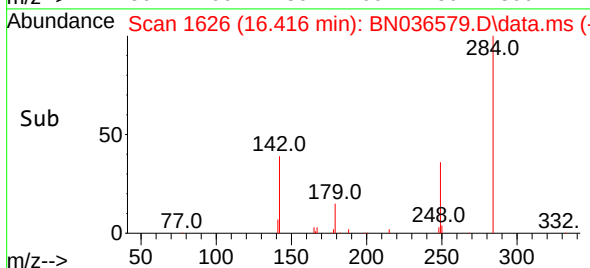
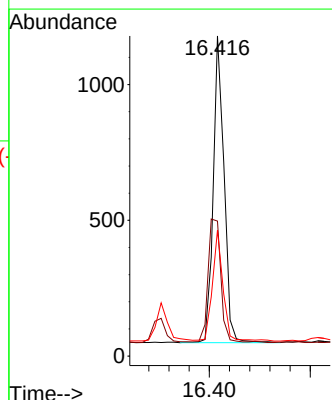
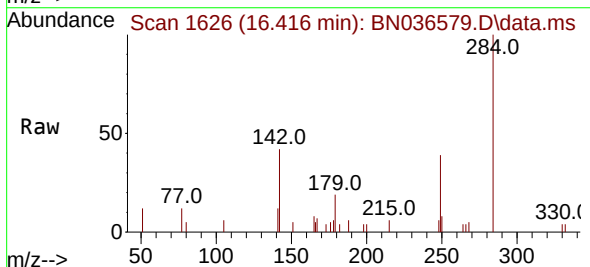
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

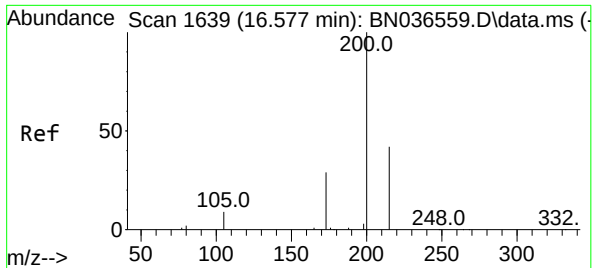
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	73.0	109.6
141	69.4	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.420 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.9	37.0	55.4
249	35.6	28.1	42.1

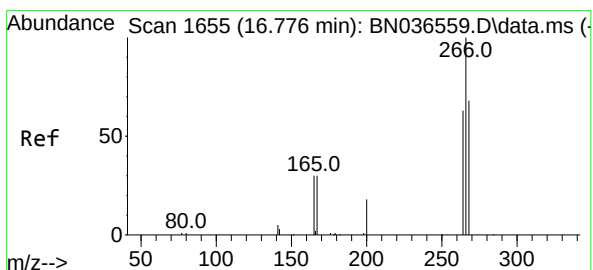
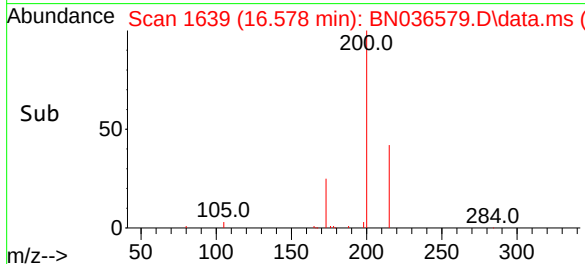
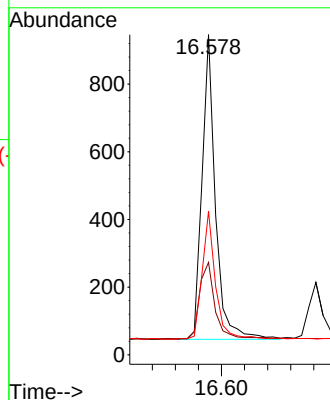
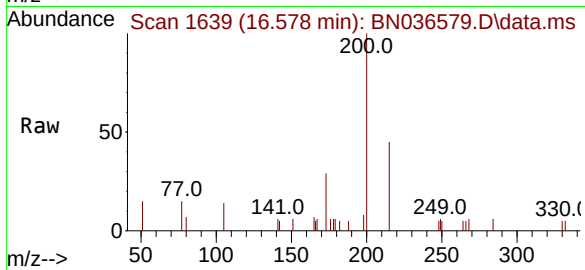




#23
Atrazine
Concen: 0.546 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

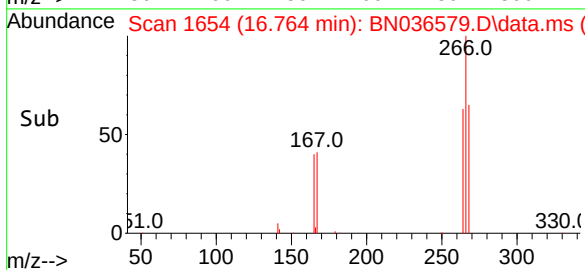
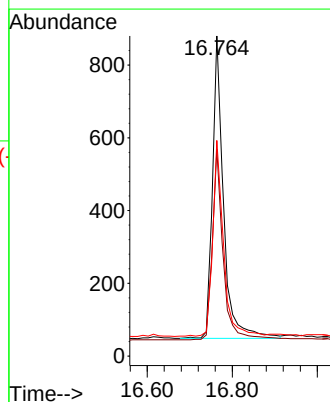
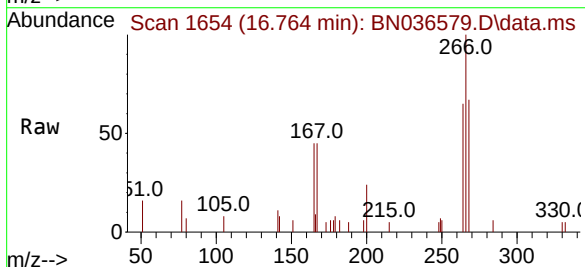
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

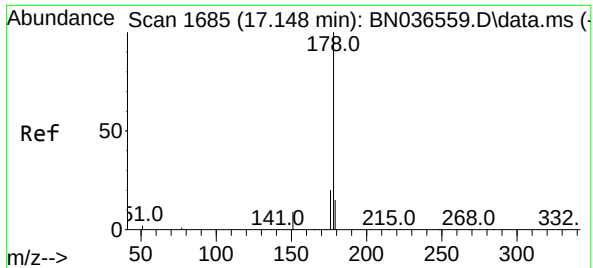
Tgt Ion	200	Resp:	1449
Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	44.8	36.8	55.2



#24
Pentachlorophenol
Concen: 0.820 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion	266	Resp:	1496
Ion	Ratio	Lower	Upper
266	100		
264	61.3	49.6	74.4
268	63.6	50.9	76.3

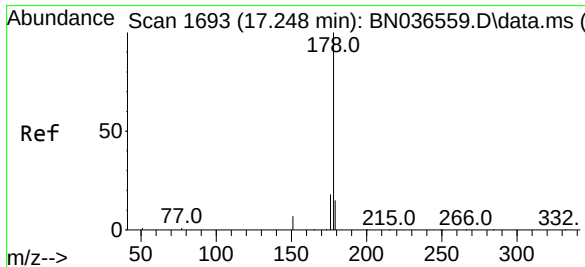
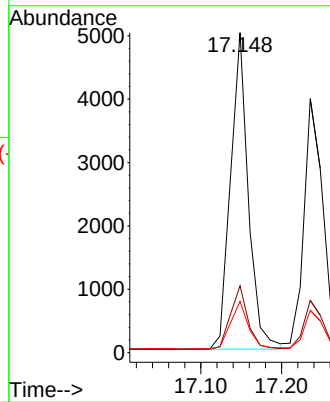
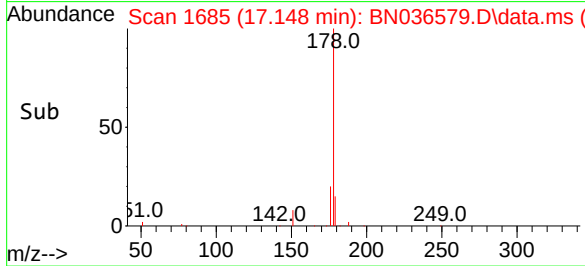
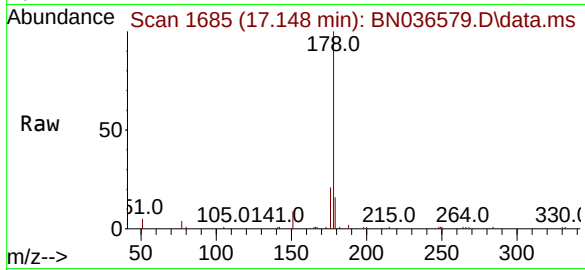




#25
Phenanthrene
Concen: 0.482 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

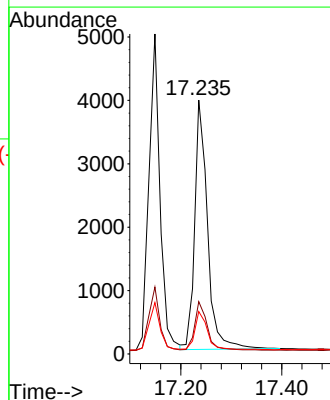
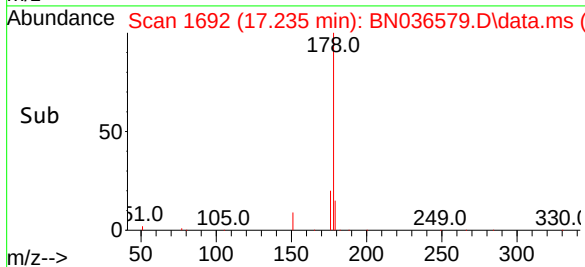
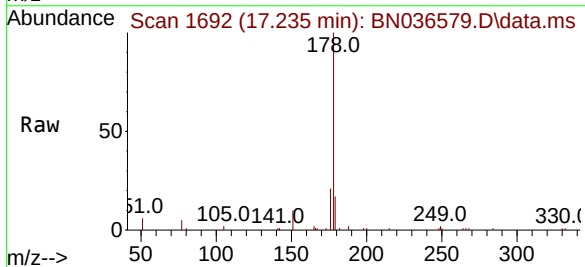
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

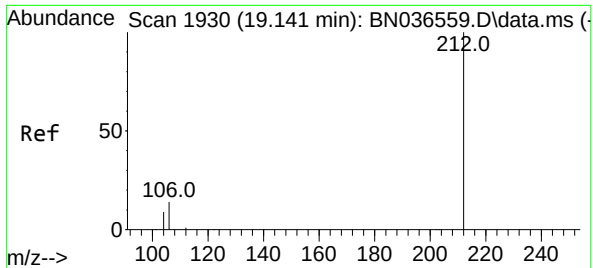
Tgt Ion:178 Resp: 7638
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.485 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:178 Resp: 6937
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MS

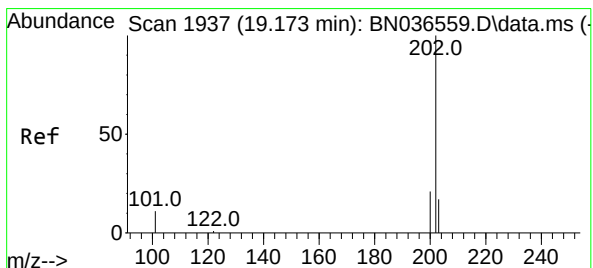
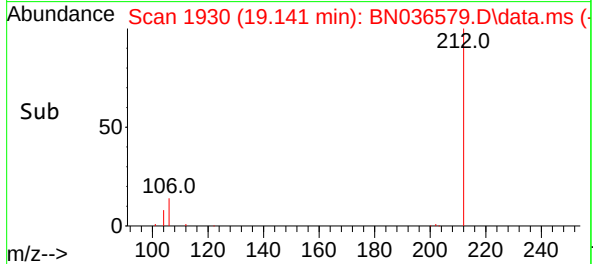
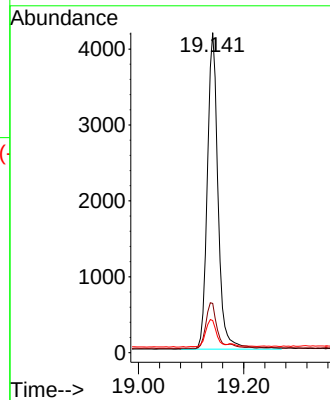
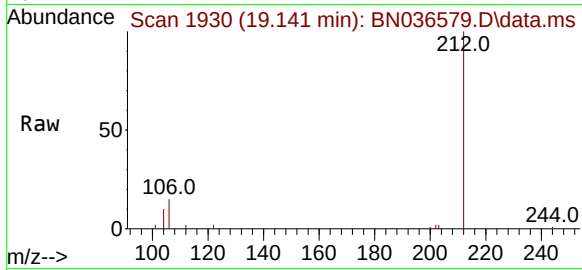
Tgt Ion:212 Resp: 5901

Ion Ratio Lower Upper

212 100

106 14.5 11.8 17.6

104 9.0 7.3 10.9



#28

Fluoranthene

Concen: 0.513 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

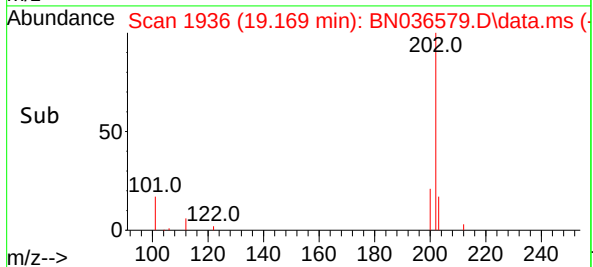
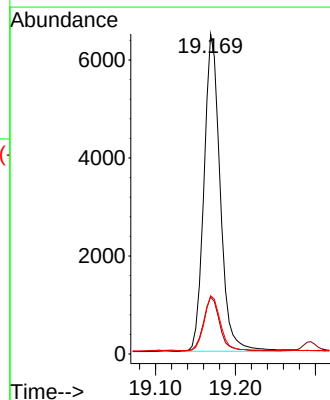
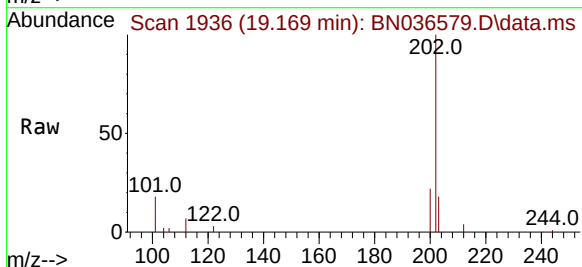
Tgt Ion:202 Resp: 9138

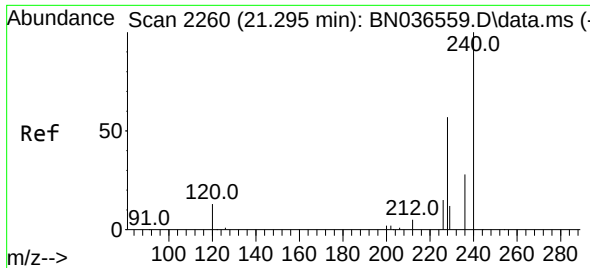
Ion Ratio Lower Upper

202 100

101 17.4 9.4 14.0#

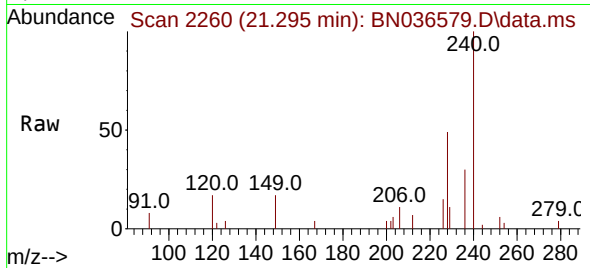
203 17.3 13.5 20.3



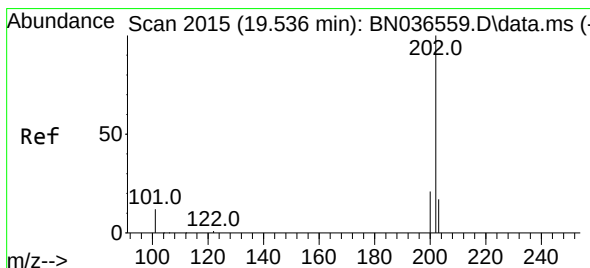
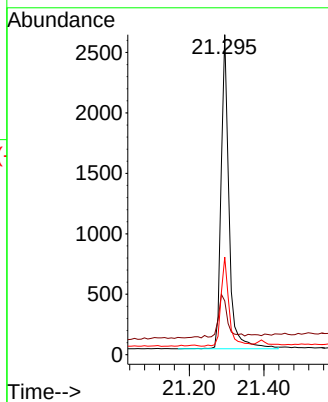
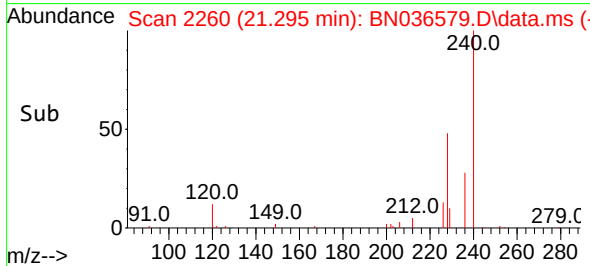


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

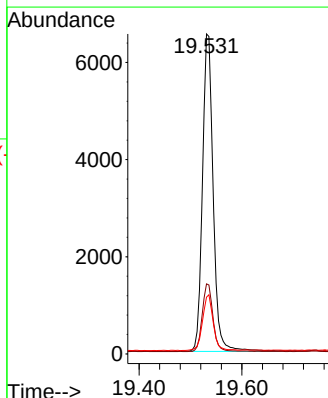
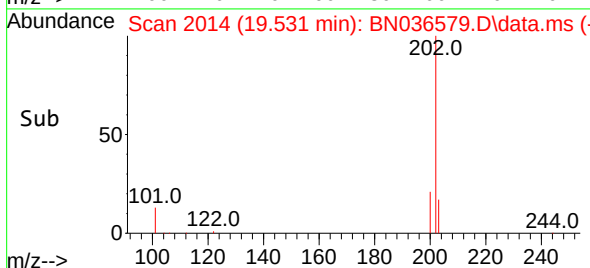
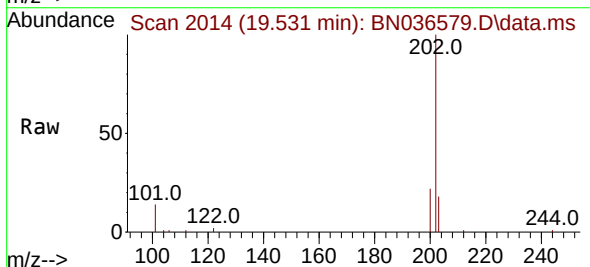


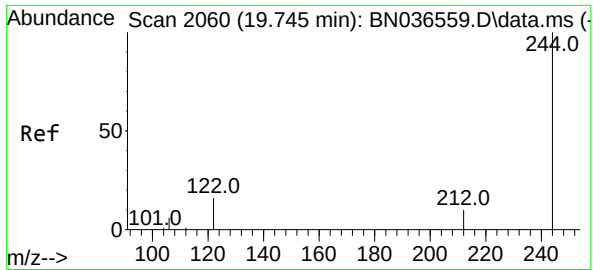
Tgt Ion:240 Resp: 3809
Ion Ratio Lower Upper
240 100
120 16.8 14.6 22.0
236 30.5 24.1 36.1



#30
Pyrene
Concen: 0.507 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:202 Resp: 9436
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.5 14.1 21.1

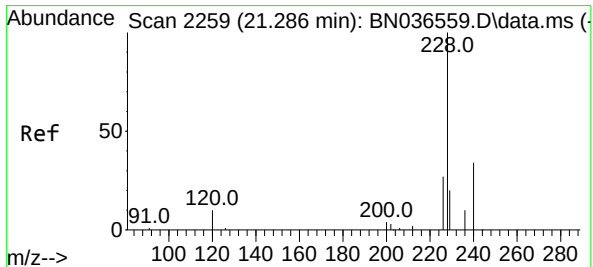
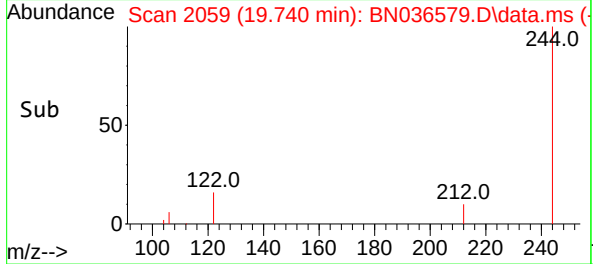
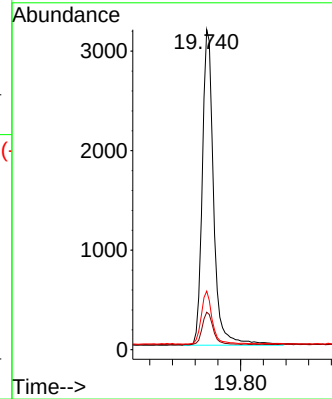
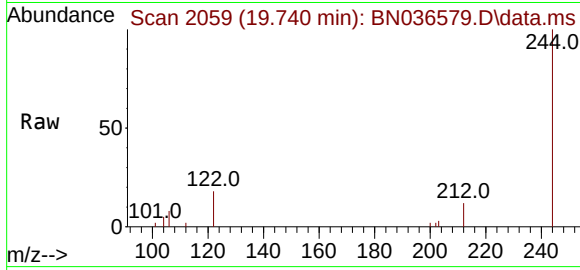




#31
Terphenyl-d14
Concen: 0.483 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

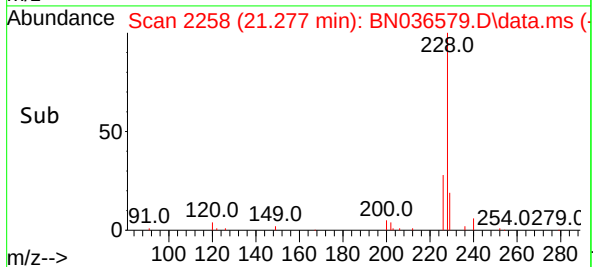
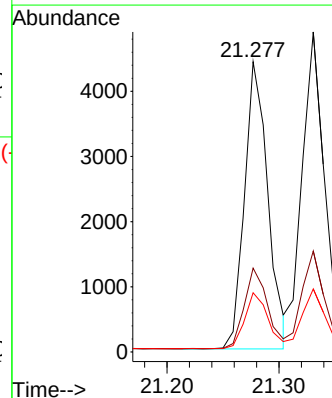
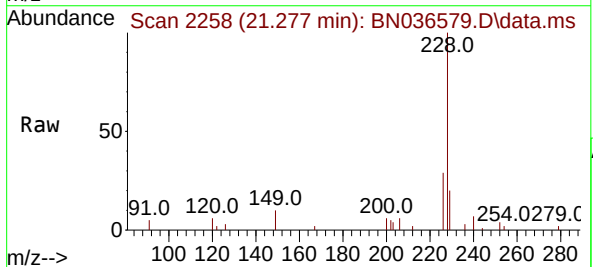
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

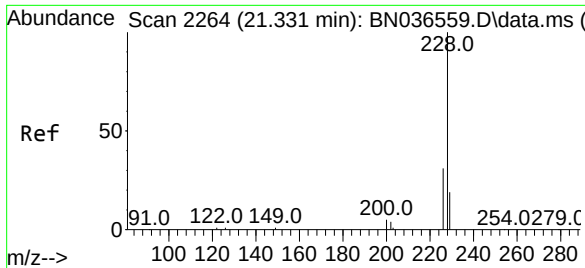
Tgt Ion:244 Resp: 4410
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 18.3 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.482 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:228 Resp: 6388
Ion Ratio Lower Upper
228 100
226 28.9 22.5 33.7
229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.512 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MS

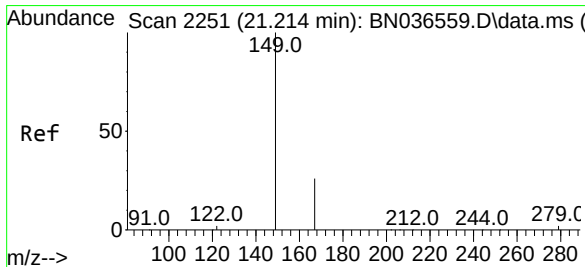
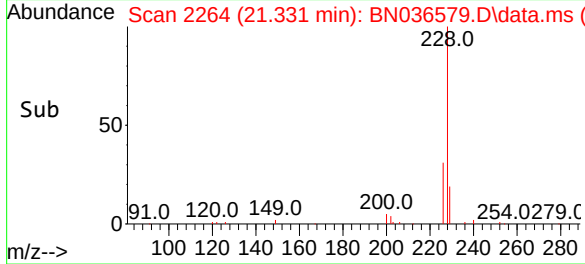
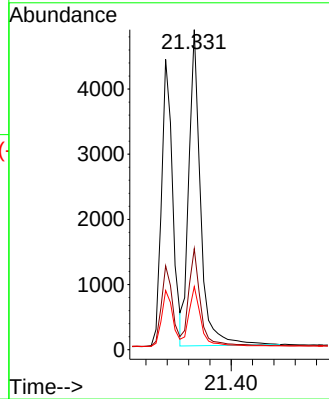
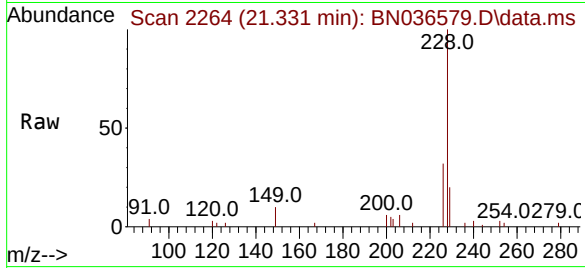
Tgt Ion:228 Resp: 7409

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.526 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

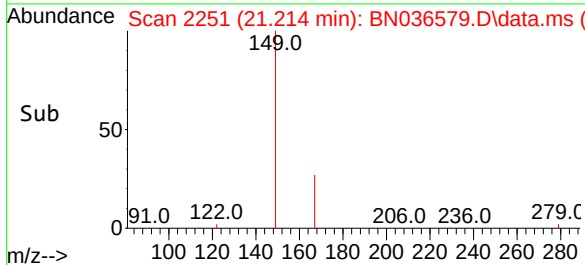
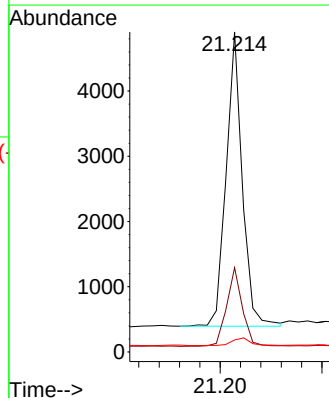
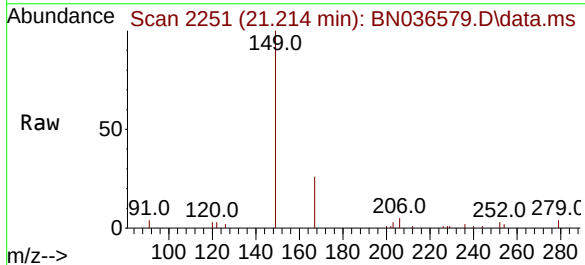
Tgt Ion:149 Resp: 4963

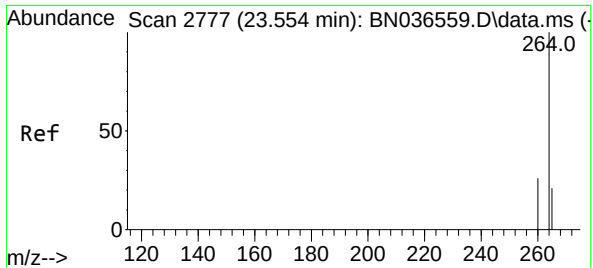
Ion Ratio Lower Upper

149 100

167 26.1 20.7 31.1

279 2.8 3.6 5.4#

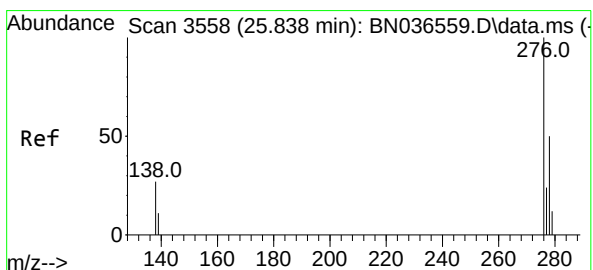
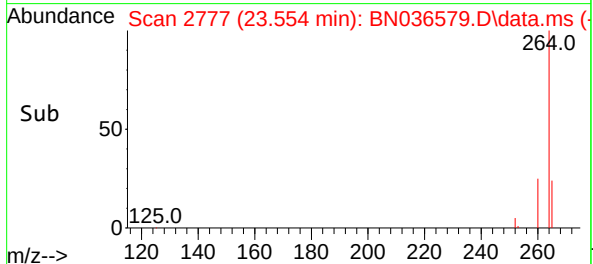
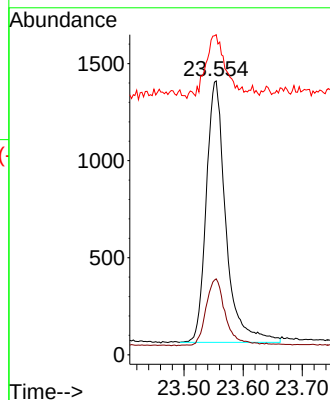
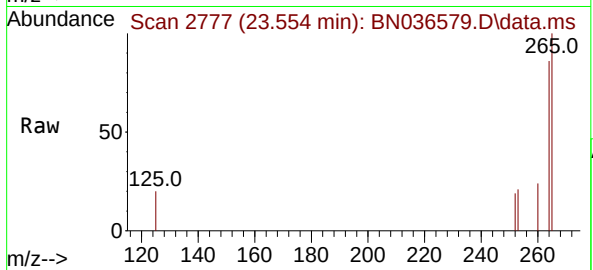




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

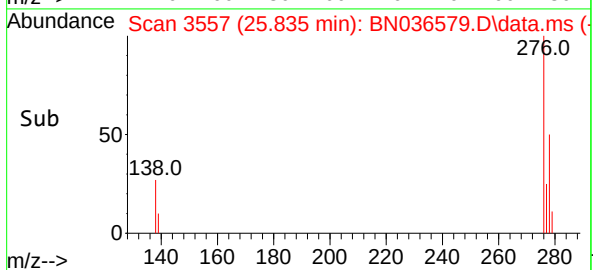
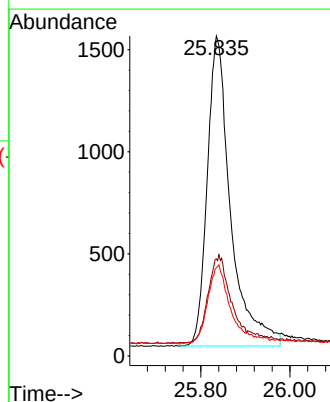
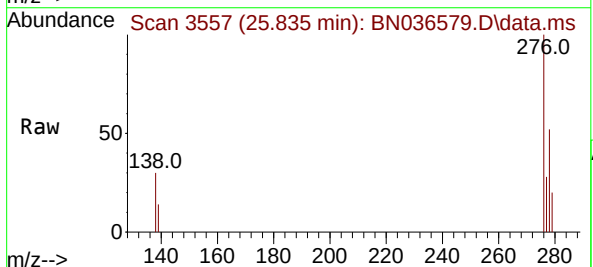
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

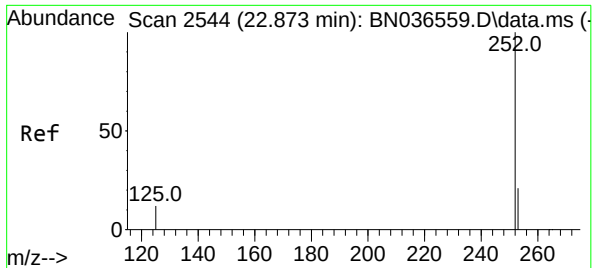
Tgt Ion:264 Resp: 3096
Ion Ratio Lower Upper
264 100
260 27.7 22.6 33.8
265 116.9 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.494 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:276 Resp: 5521
Ion Ratio Lower Upper
276 100
138 29.1 23.4 35.2
277 24.7 20.0 30.0

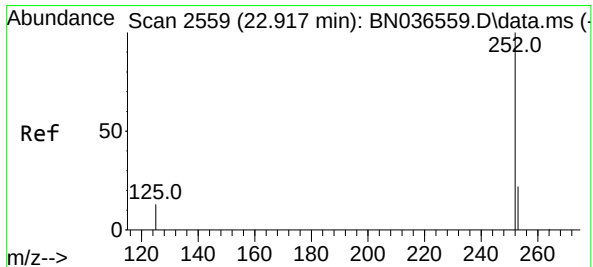
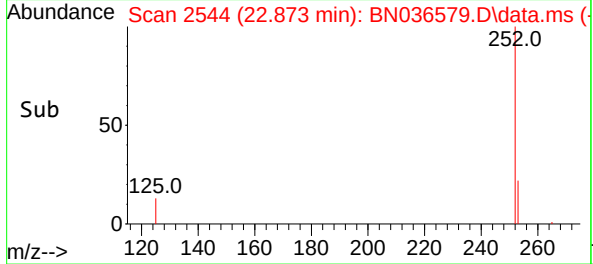
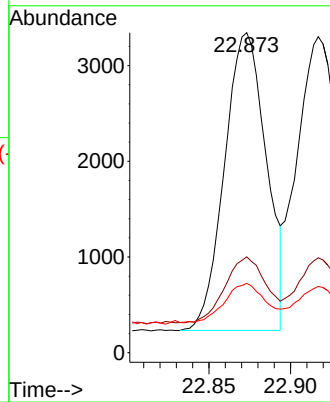
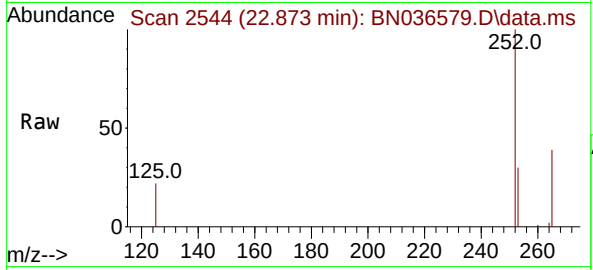




#37
Benzo(b)fluoranthene
Concen: 0.491 ng
RT: 22.873 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

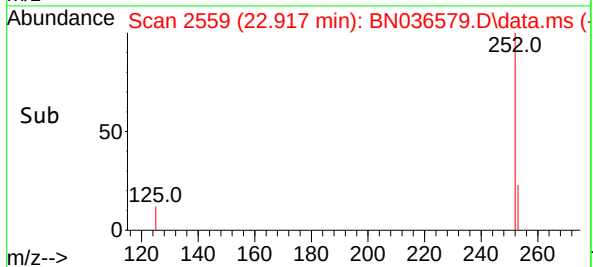
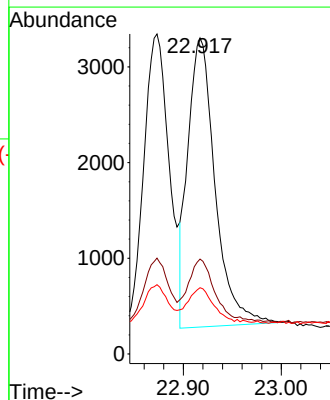
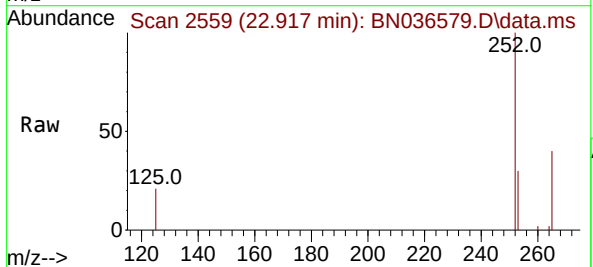
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS

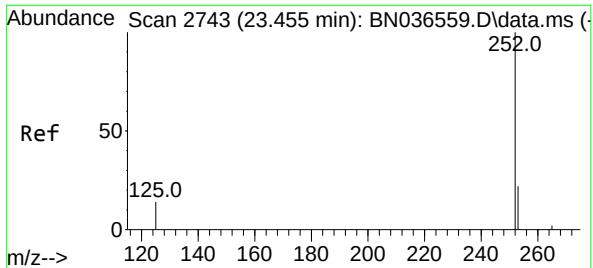
Tgt Ion:252 Resp: 5536
Ion Ratio Lower Upper
252 100
253 30.0 23.9 35.9
125 21.7 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.493 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Tgt Ion:252 Resp: 5823
Ion Ratio Lower Upper
252 100
253 30.0 24.6 36.8
125 21.0 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.540 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

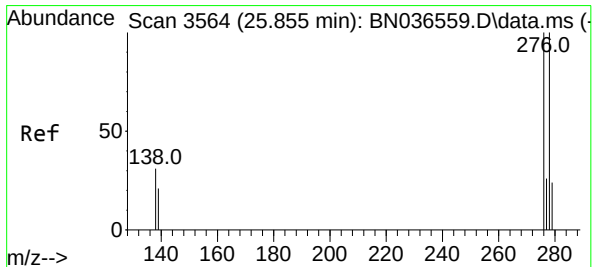
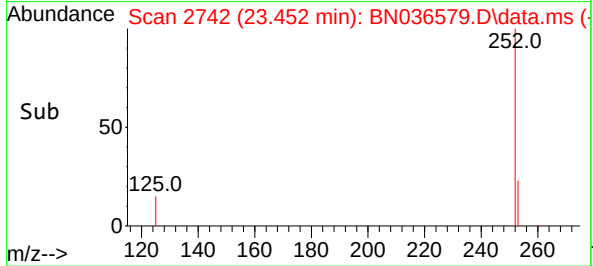
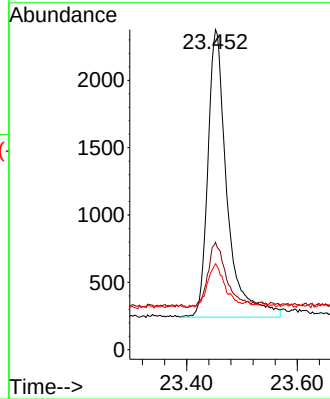
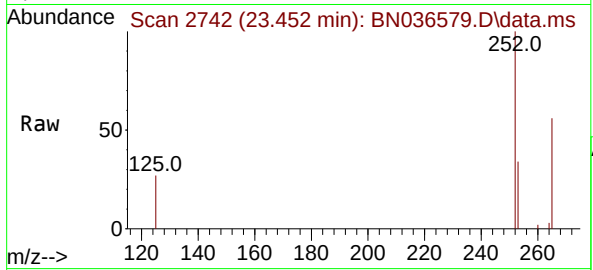
Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MS

Tgt Ion:252	Resp:	5125
Ion Ratio	Lower	Upper
252	100	
253	33.5	27.8 41.8
125	26.9	22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.493 ng

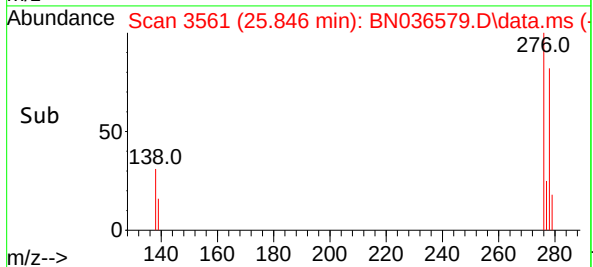
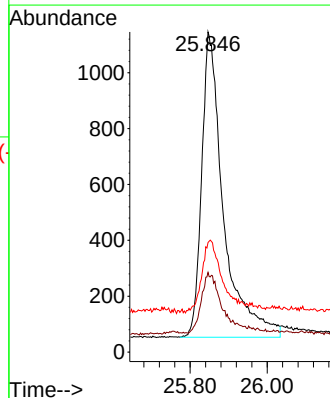
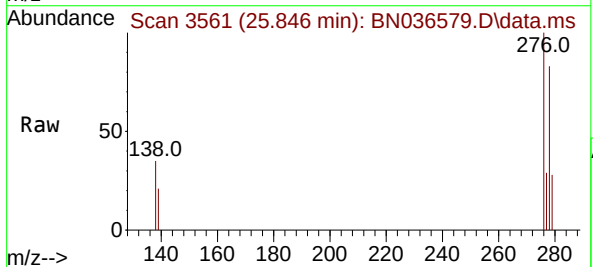
RT: 25.846 min Scan# 3561

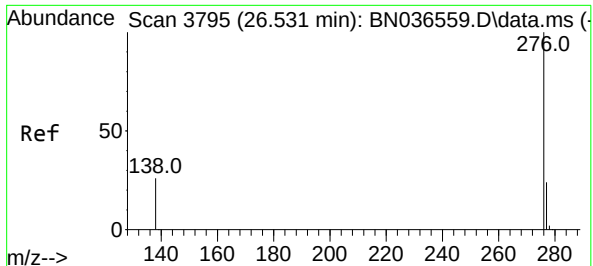
Delta R.T. -0.009 min

Lab File: BN036579.D

Acq: 11 Mar 2025 13:45

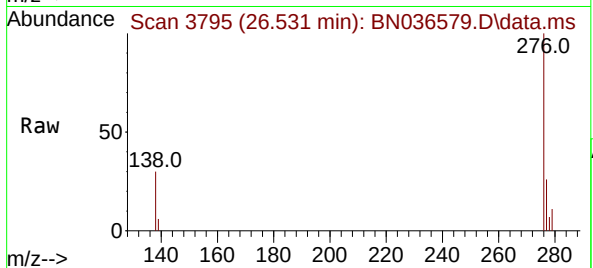
Tgt Ion:278	Resp:	4290
Ion Ratio	Lower	Upper
278	100	
139	24.9	20.8 31.2
279	34.2	28.8 43.2



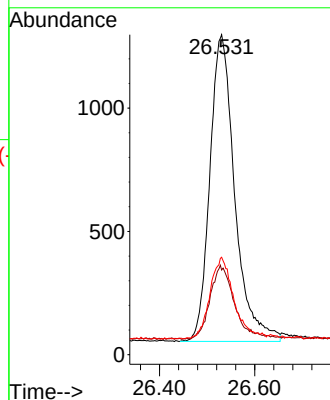
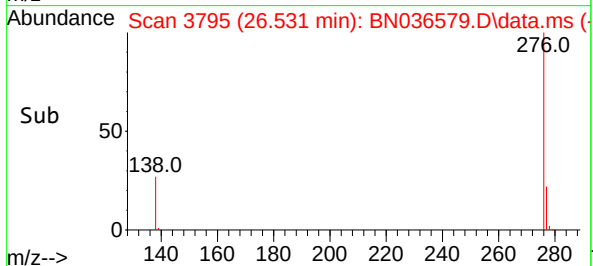


#41
Benzo(g,h,i)perylene
Concen: 0.454 ng
RT: 26.531 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036579.D
Acq: 11 Mar 2025 13:45

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MS



Tgt Ion:276 Resp: 4516
Ion Ratio Lower Upper
276 100
277 26.4 22.2 33.4
138 30.4 24.1 36.1



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/07/25
Client Sample ID:	RE103D1-20250306MSD	SDG No.:	Q1531
Lab Sample ID:	Q1531-09MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN036580.D	1	03/10/25 11:35	03/11/25 14:21	PB167057

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.90	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970		7.724			
1146-65-2	Naphthalene-d8	4550		10.509			
15067-26-2	Acenaphthene-d10	2600		14.366			
1517-22-2	Phenanthrene-d10	5250		17.111			
1719-03-5	Chrysene-d12	3780		21.295			
1520-96-3	Perylene-d12	3040		23.551			

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\BN031125\
Data File : BN036580.D
Acq On : 11 Mar 2025 14:21
Operator : RC/JU
Sample : Q1531-09MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

Quant Time: Mar 11 14:54:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

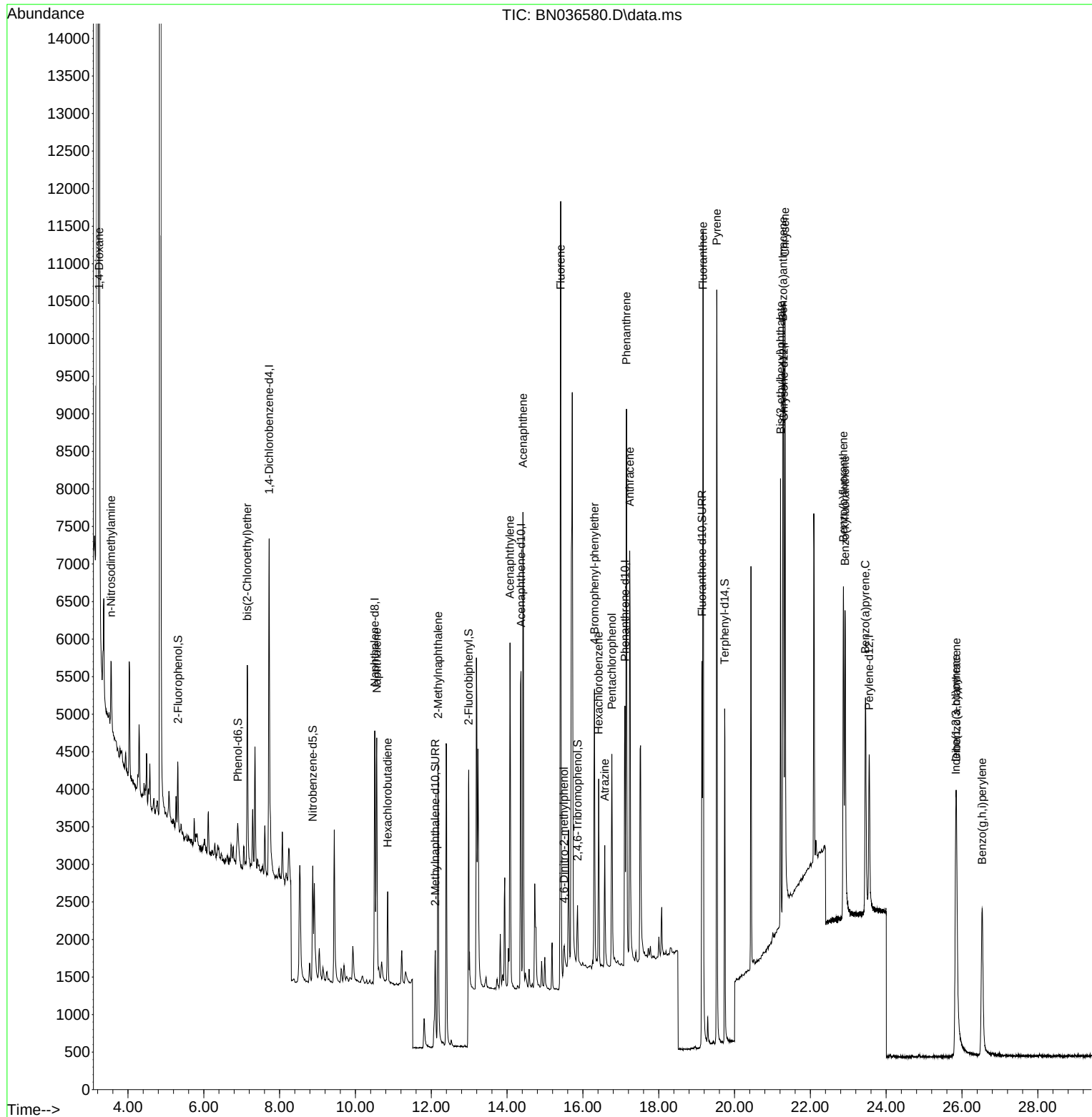
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1973	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4547	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2602	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5250	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3781	0.400	ng	0.00
35) Perylene-d12	23.551	264	3038	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	676	0.147	ng	0.00
5) Phenol-d6	6.901	99	481	0.085	ng	0.00
8) Nitrobenzene-d5	8.875	82	1440	0.291	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2635	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	478	0.405	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	5009	0.331	ng	0.00
27) Fluoranthene-d10	19.141	212	5833	0.433	ng	0.00
31) Terphenyl-d14	19.740	244	4405	0.486	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	14905	6.810	ng	98
3) n-Nitrosodimethylamine	3.550	42	807	0.182	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	2019	0.344	ng	98
9) Naphthalene	10.562	128	4809	0.360	ng	99
10) Hexachlorobutadiene	10.850	225	988	0.314	ng	# 98
12) 2-Methylnaphthalene	12.177	142	3057	0.359	ng	96
16) Acenaphthylene	14.077	152	5078	0.414	ng	99
17) Acenaphthene	14.420	154	3171	0.395	ng	99
18) Fluorene	15.414	166	4437	0.408	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	467	0.493	ng	# 76
21) 4-Bromophenyl-phenylether	16.304	248	1418	0.431	ng	89
22) Hexachlorobenzene	16.416	284	1670	0.421	ng	98
23) Atrazine	16.577	200	1456	0.552	ng	96
24) Pentachlorophenol	16.764	266	1484	0.819	ng	98
25) Phenanthrene	17.148	178	7563	0.480	ng	100
26) Anthracene	17.235	178	6988	0.492	ng	99
28) Fluoranthene	19.169	202	9115	0.515	ng	# 94
30) Pyrene	19.531	202	9415	0.509	ng	100
32) Benzo(a)anthracene	21.277	228	6361	0.484	ng	98
33) Chrysene	21.331	228	7345	0.511	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	5004	0.535	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	5484	0.500	ng	99
37) Benzo(b)fluoranthene	22.873	252	5544	0.501	ng	99
38) Benzo(k)fluoranthene	22.917	252	5839	0.503	ng	97
39) Benzo(a)pyrene	23.452	252	5088	0.546	ng	96
40) Dibenzo(a,h)anthracene	25.855	278	4317	0.506	ng	98
41) Benzo(g,h,i)perylene	26.531	276	4563	0.467	ng	98

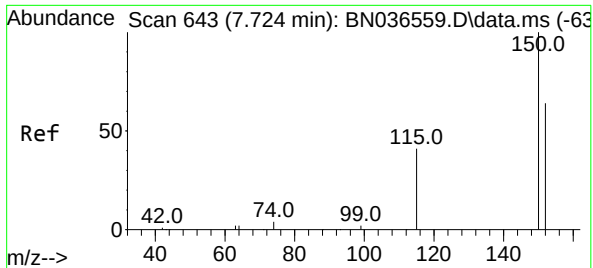
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036580.D
Acq On : 11 Mar 2025 14:21
Operator : RC/JU
Sample : Q1531-09MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

Quant Time: Mar 11 14:54:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

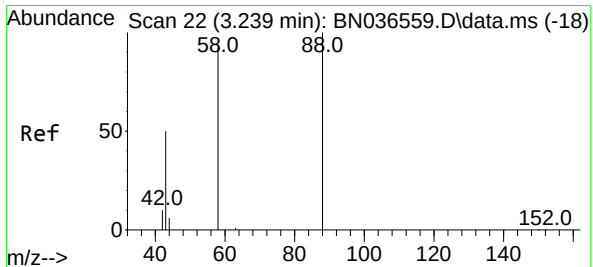
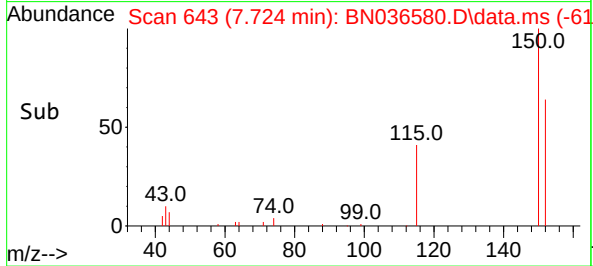
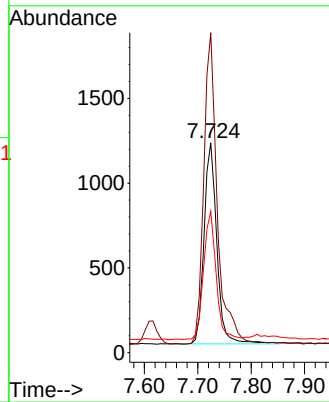
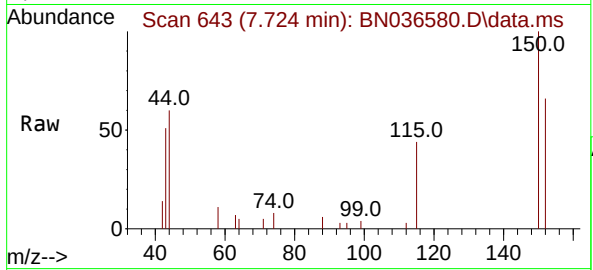




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

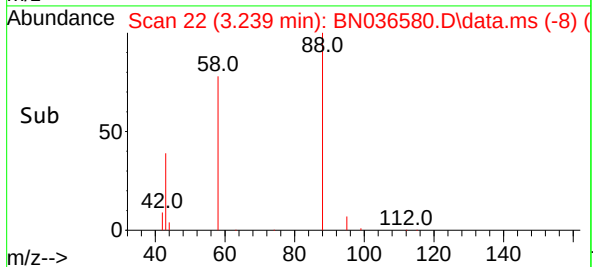
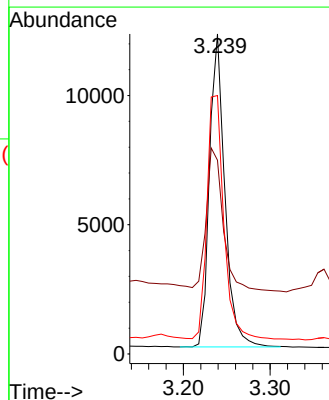
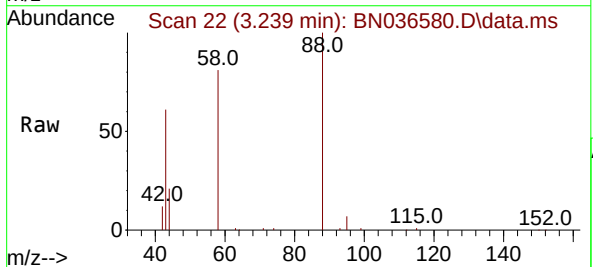
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

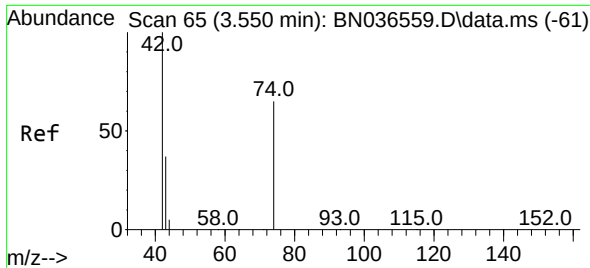
Tgt Ion:152 Resp: 1973
Ion Ratio Lower Upper
152 100
150 152.5 123.7 185.5
115 67.4 54.3 81.5



#2
1,4-Dioxane
Concen: 6.810 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 88 Resp: 14905
Ion Ratio Lower Upper
88 100
43 50.0 37.8 56.8
58 85.4 67.4 101.2

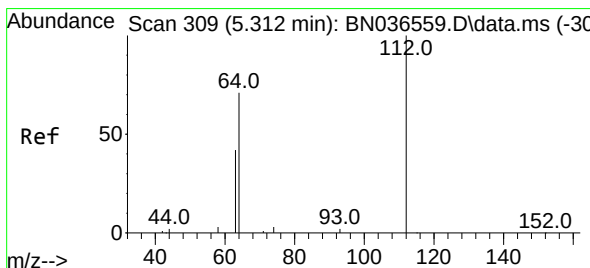
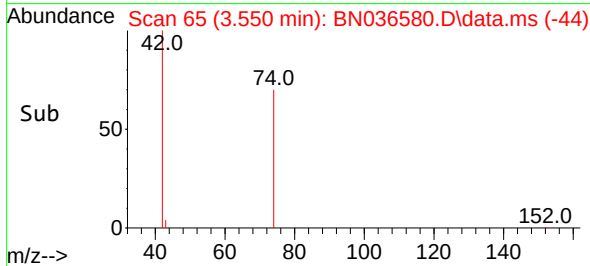
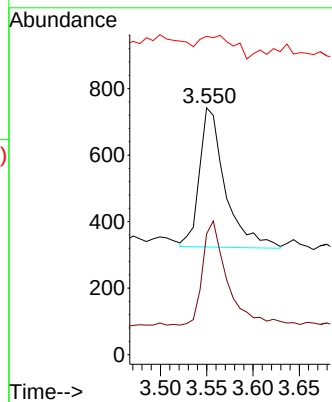
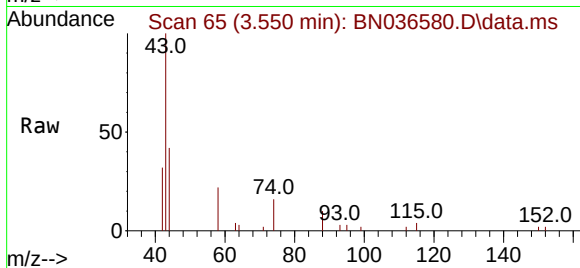




#3
n-Nitrosodimethylamine
Concen: 0.182 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

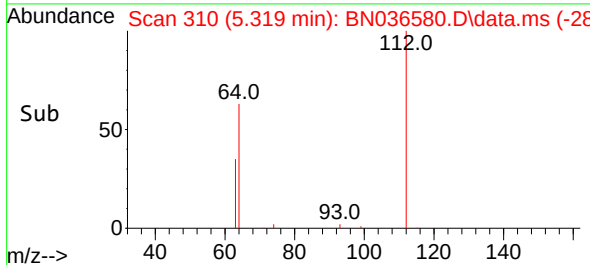
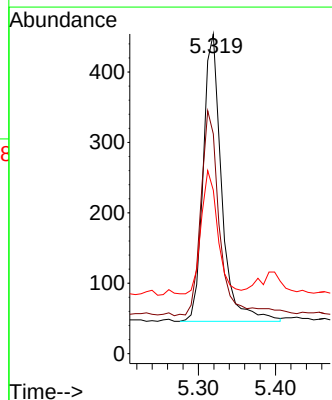
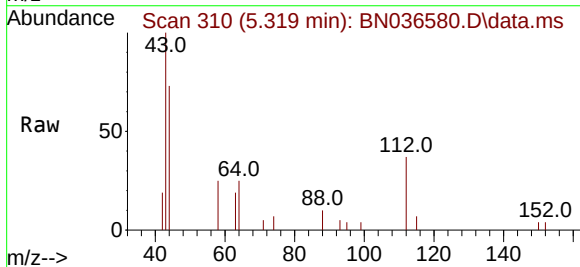
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

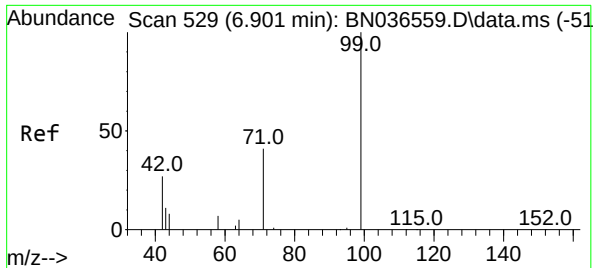
Tgt Ion: 42 Resp: 807
Ion Ratio Lower Upper
42 100
74 72.7 60.6 90.8
44 14.6 6.3 9.5#



#4
2-Fluorophenol
Concen: 0.147 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 112 Resp: 676
Ion Ratio Lower Upper
112 100
64 73.8 53.1 79.7
63 38.5 31.8 47.8

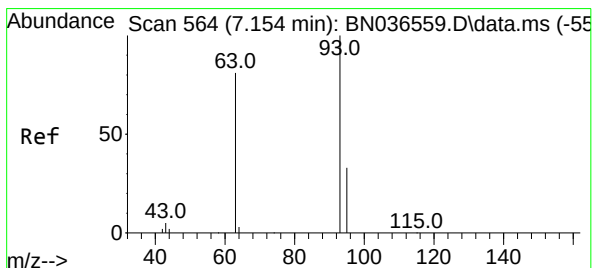
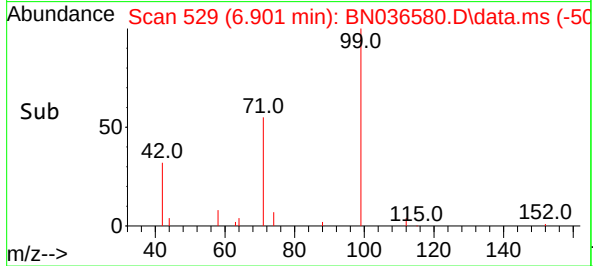
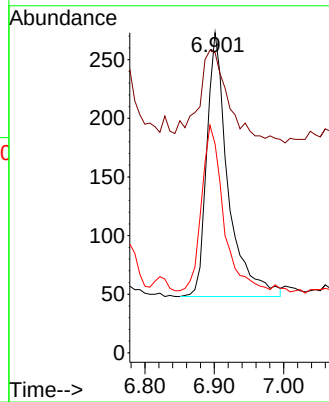
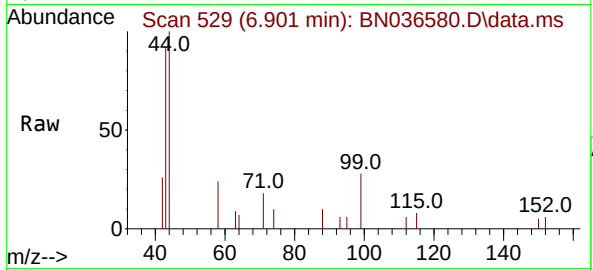




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

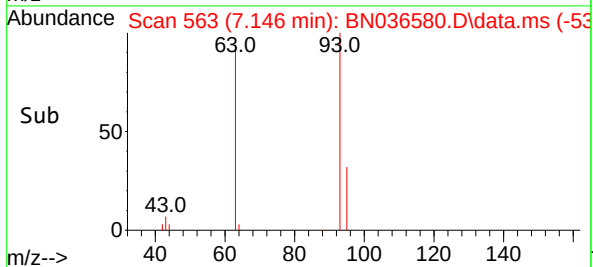
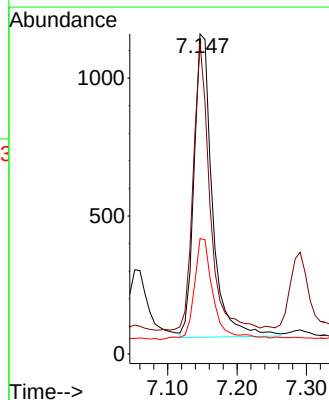
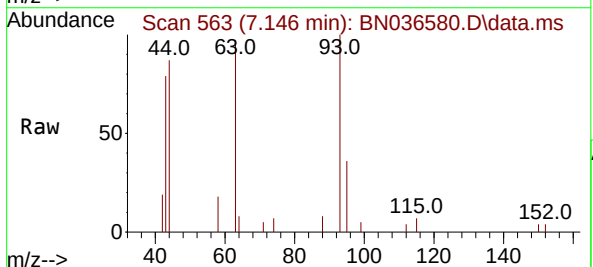
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

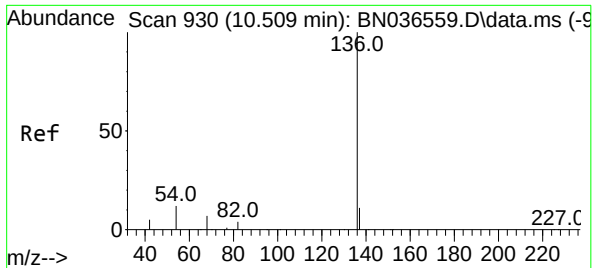
Tgt Ion: 99 Resp: 481
Ion Ratio Lower Upper
99 100
42 50.9 26.5 39.7#
71 63.8 34.1 51.1#



#6
bis(2-Chloroethyl)ether
Concen: 0.344 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 93 Resp: 2019
Ion Ratio Lower Upper
93 100
63 85.3 67.7 101.5
95 34.9 25.6 38.4

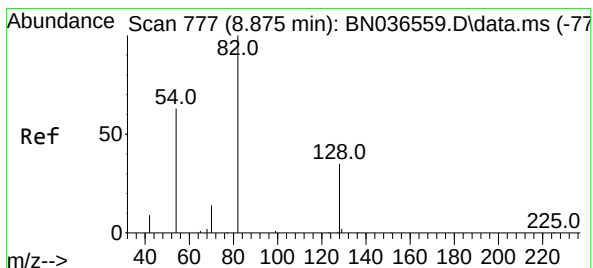
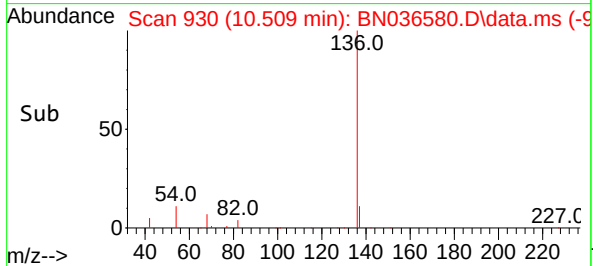
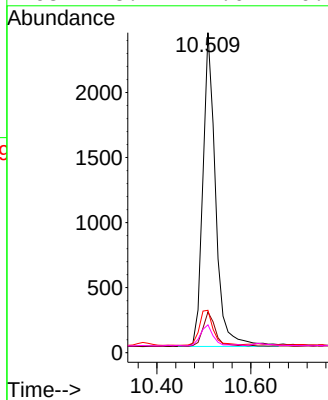
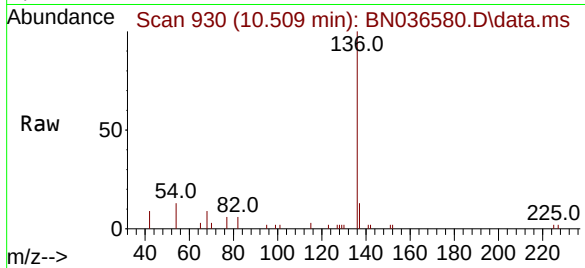




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

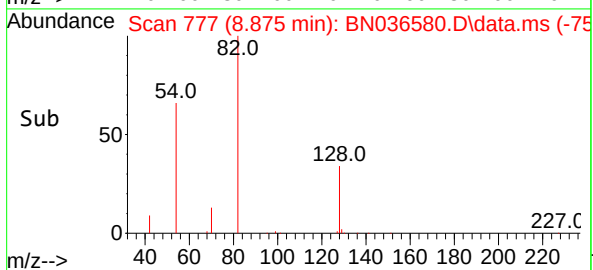
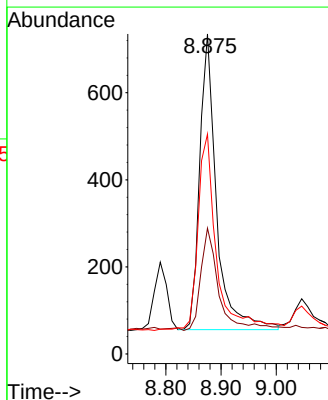
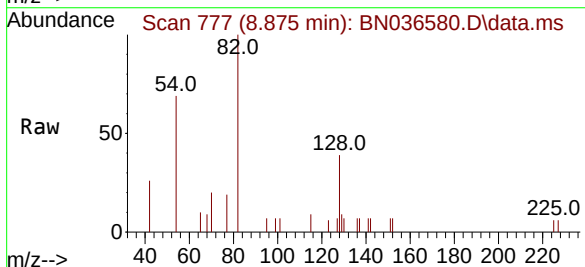
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ClientSampleId :
RE103D1-20250306MSD

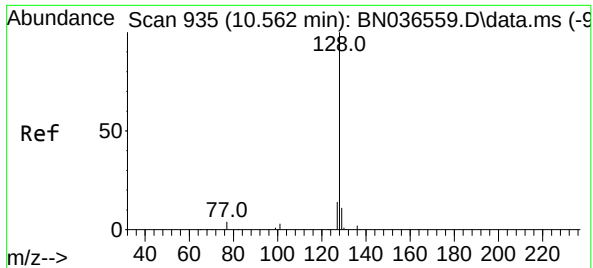
Tgt Ion:	136	Resp:	4547
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	13.3	11.5	17.3
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.291 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:	82	Resp:	1440
Ion	Ratio	Lower	Upper
82	100		
128	39.3	30.6	45.8
54	68.7	52.2	78.4





#9

Naphthalene

Concen: 0.360 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MSD

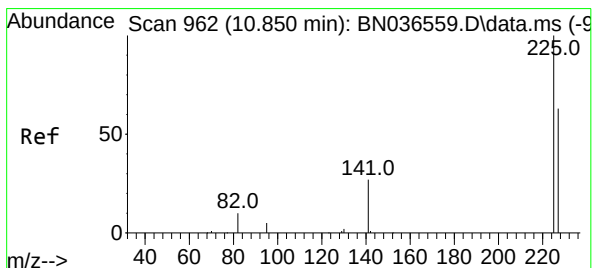
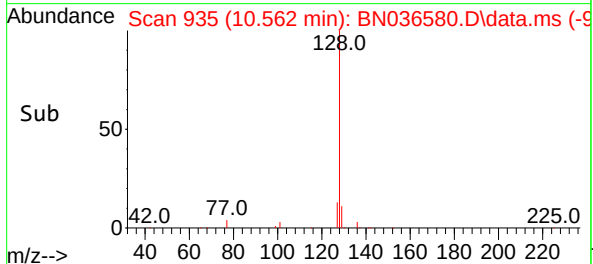
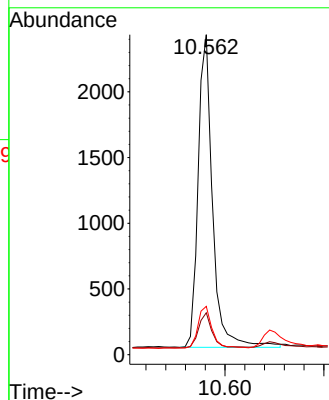
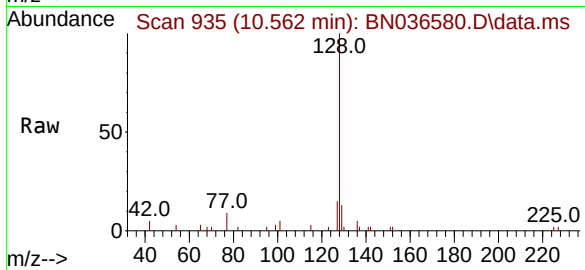
Tgt Ion:128 Resp: 4809

Ion Ratio Lower Upper

128 100

129 13.1 9.8 14.6

127 15.1 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.314 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

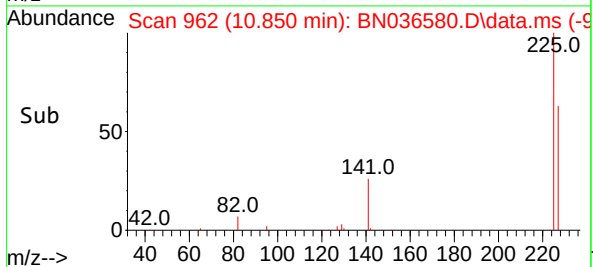
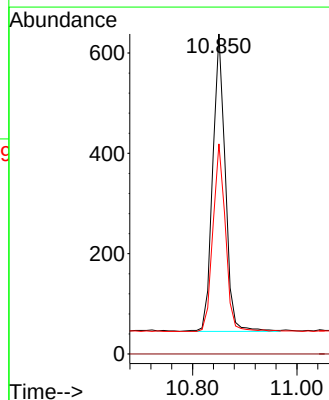
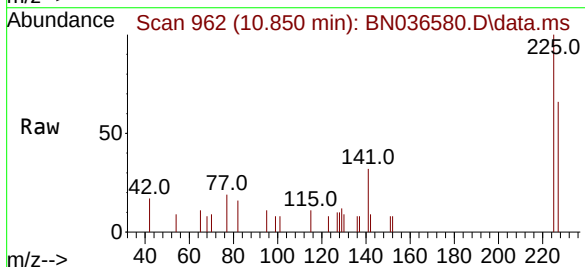
Tgt Ion:225 Resp: 988

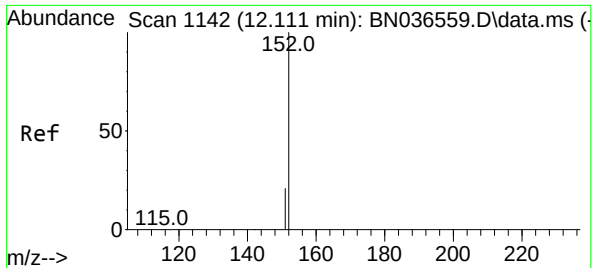
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.1 51.8 77.8

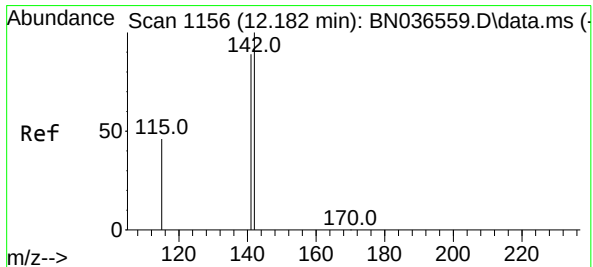
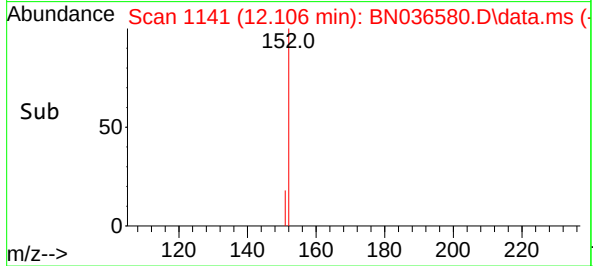
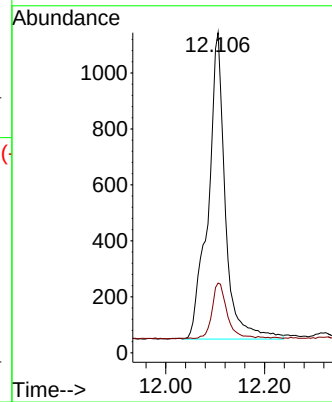
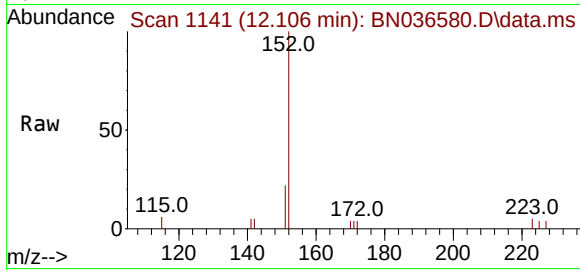




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

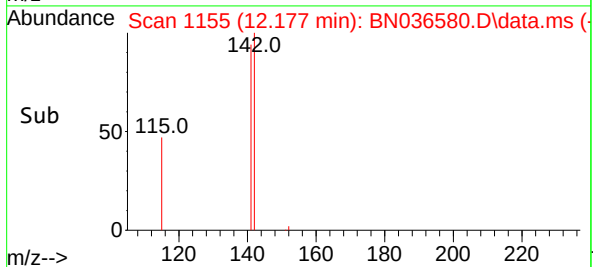
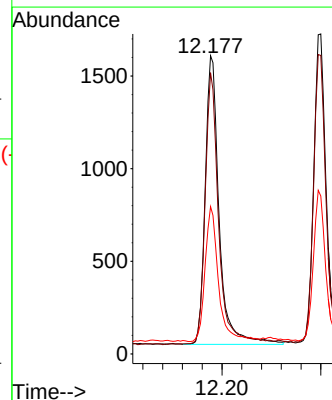
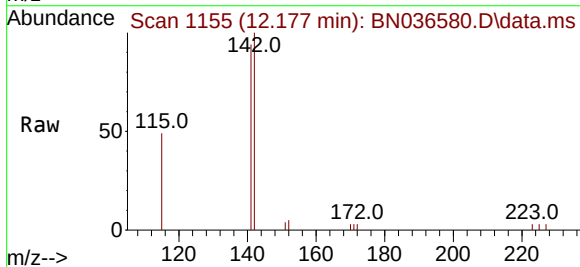
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

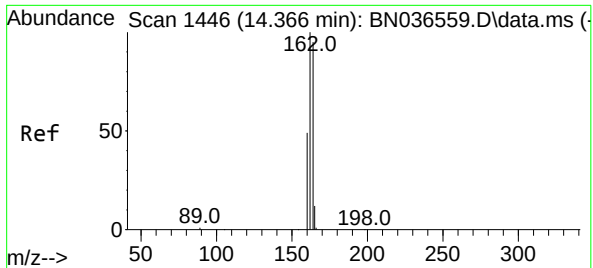
Tgt Ion:152 Resp: 2635
Ion Ratio Lower Upper
152 100
151 15.7 17.0 25.6#



#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:142 Resp: 3057
Ion Ratio Lower Upper
142 100
141 94.3 71.7 107.5
115 49.4 38.3 57.5

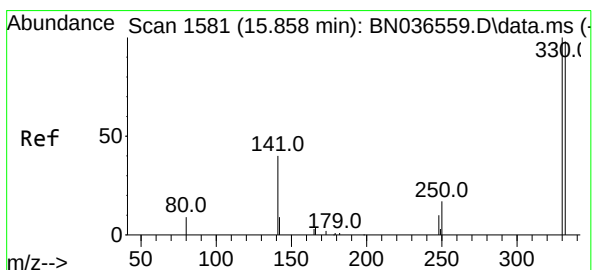
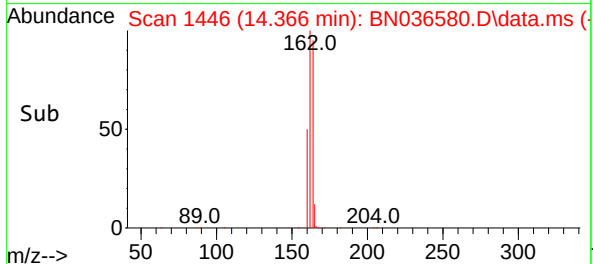
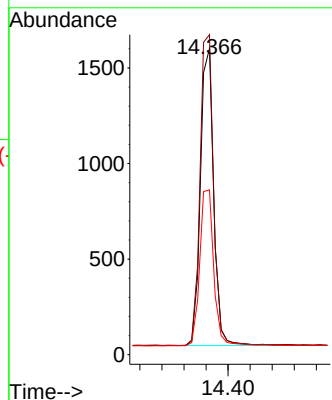
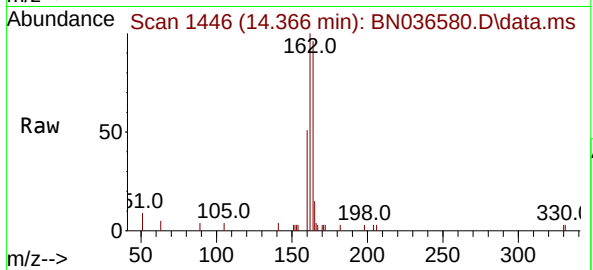




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

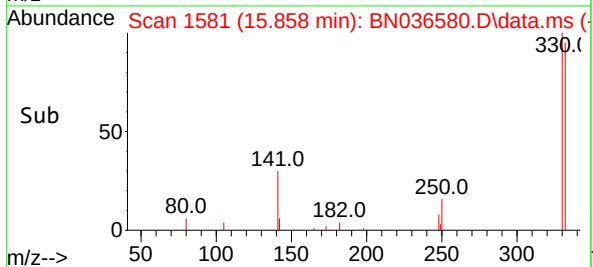
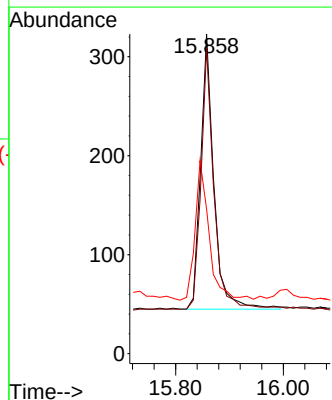
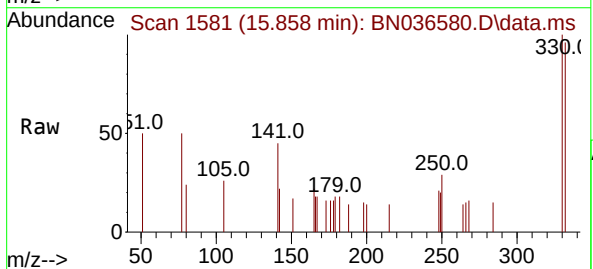
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

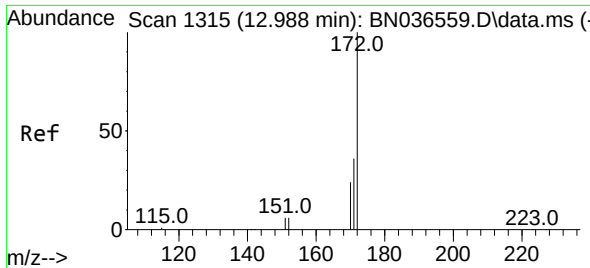
Tgt Ion:164 Resp: 2602
Ion Ratio Lower Upper
164 100
162 104.5 84.2 126.2
160 53.8 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:330 Resp: 478
Ion Ratio Lower Upper
330 100
332 91.6 75.2 112.8
141 53.3 43.4 65.2

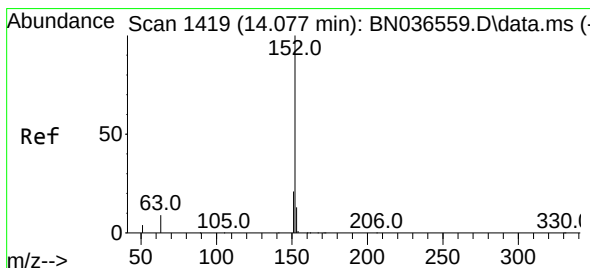
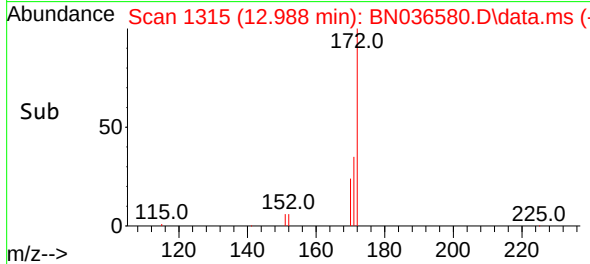
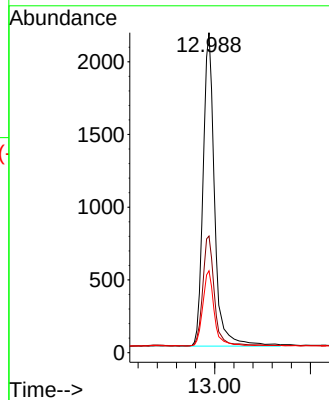
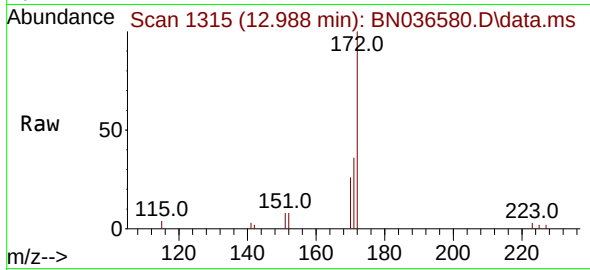




#15
2-Fluorobiphenyl
Concen: 0.331 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

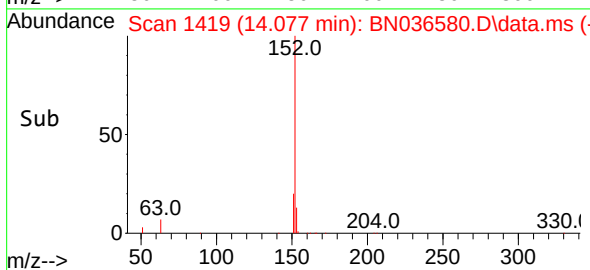
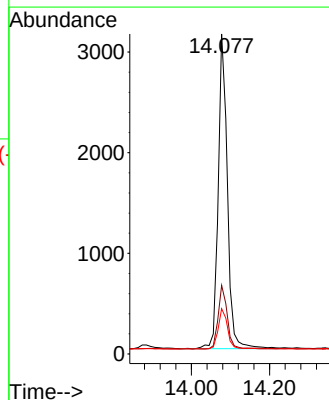
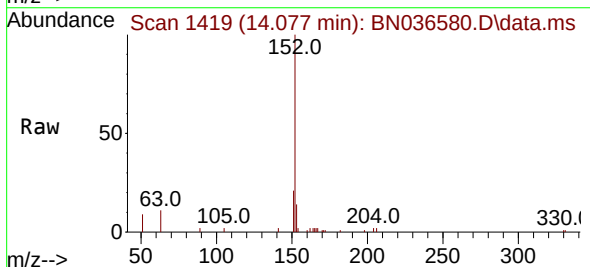
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

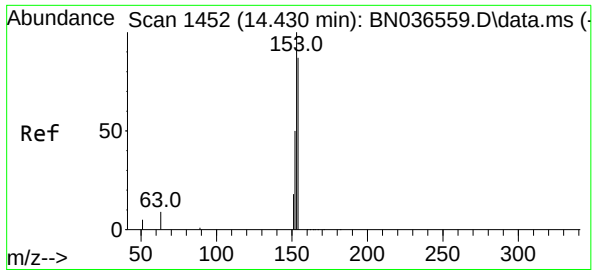
Tgt Ion:	172	Resp:	5009
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.5	44.3
170	25.6	20.2	30.4



#16
Acenaphthylene
Concen: 0.414 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:	152	Resp:	5078
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.2	24.4
153	13.3	10.6	15.8

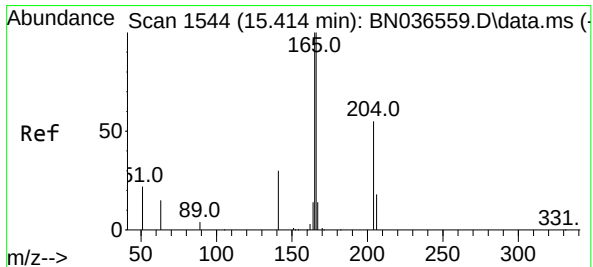
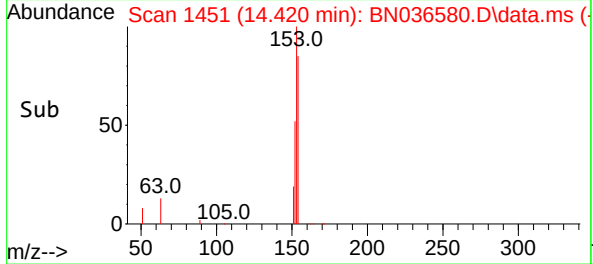
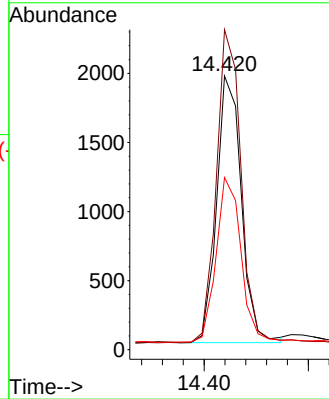
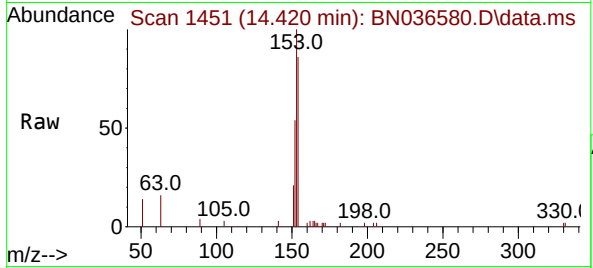




#17
Acenaphthene
Concen: 0.395 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

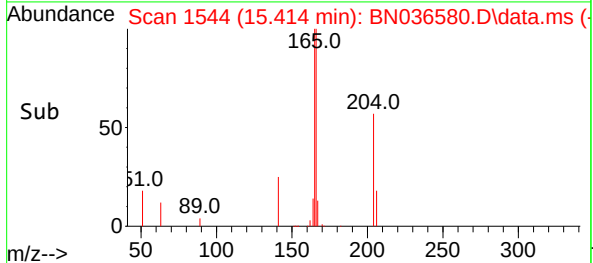
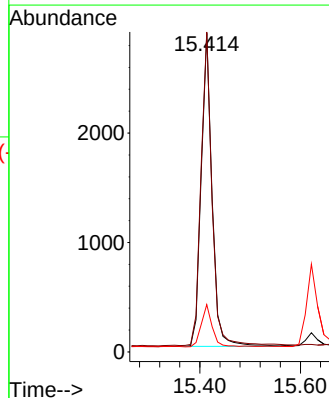
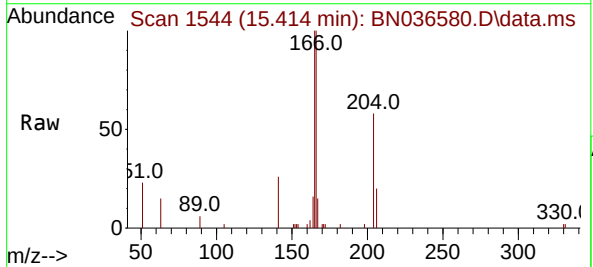
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

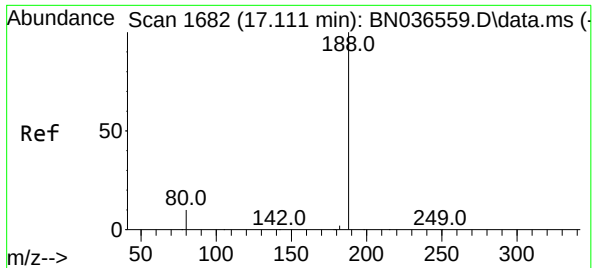
Tgt Ion:154 Resp: 3171
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.4 49.8 74.6



#18
Fluorene
Concen: 0.408 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:166 Resp: 4437
Ion Ratio Lower Upper
166 100
165 101.0 79.8 119.8
167 13.5 10.6 15.8

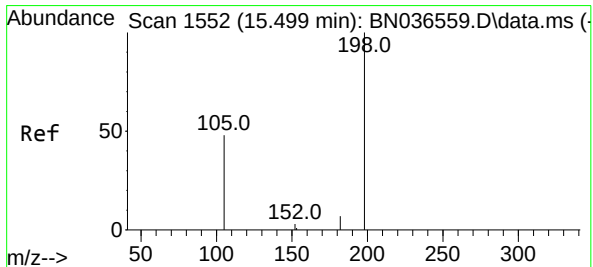
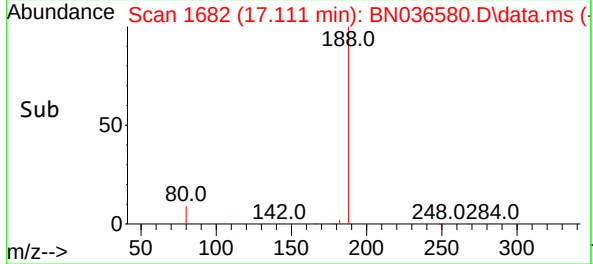
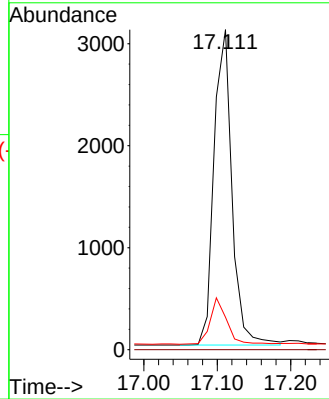
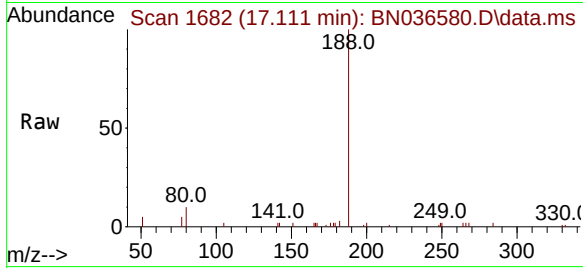




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

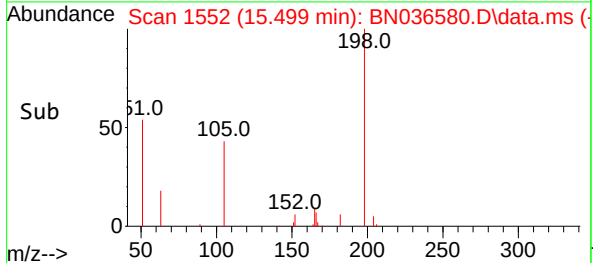
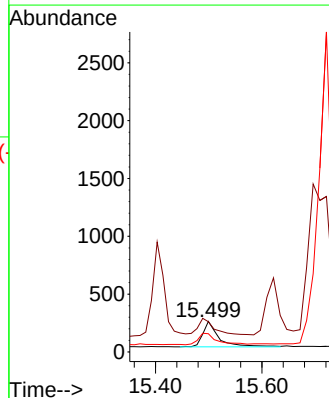
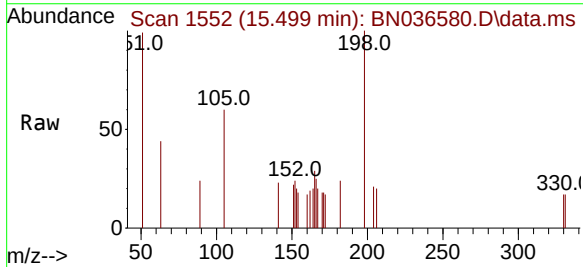
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

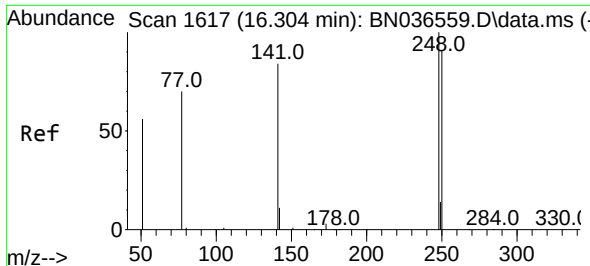
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	8.8	13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.493 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion	Ratio	Lower	Upper
198	100		
51	98.9	107.9	161.9
105	59.8	56.2	84.2

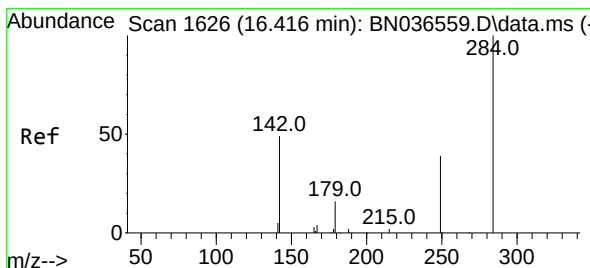
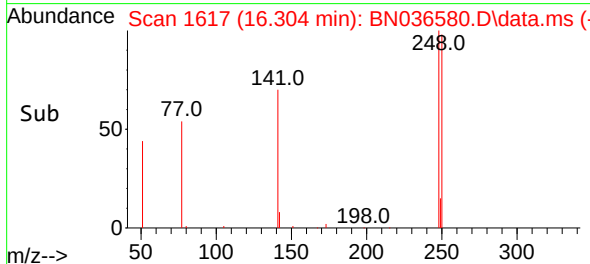
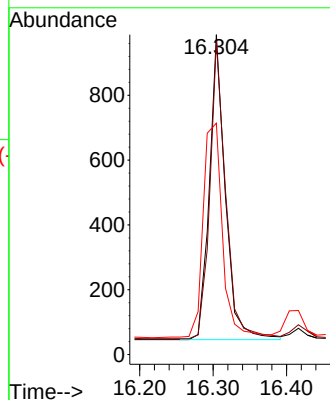
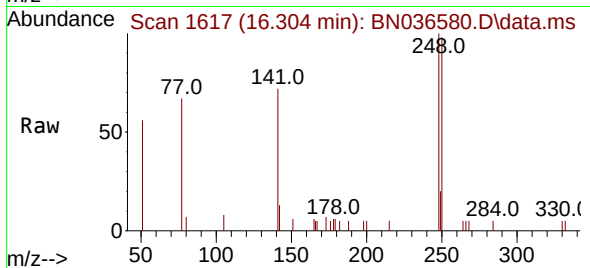




#21
4-Bromophenyl-phenylether
Concen: 0.431 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

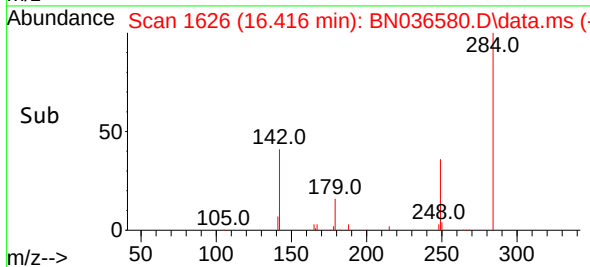
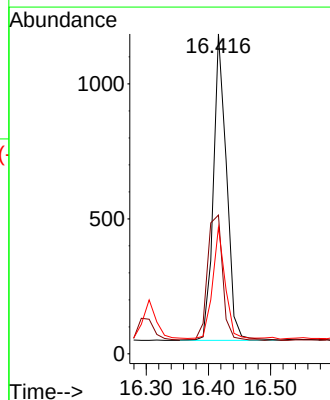
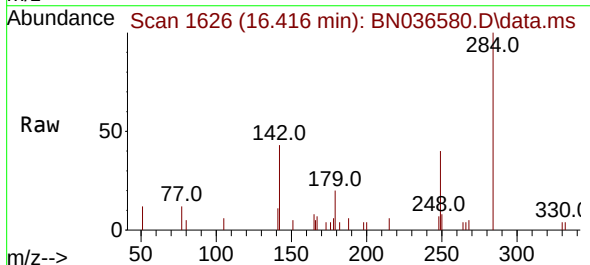
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

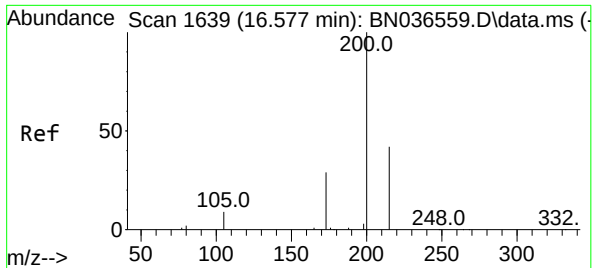
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.0	73.0	109.6
141	72.3	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.421 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.3	28.1	42.1

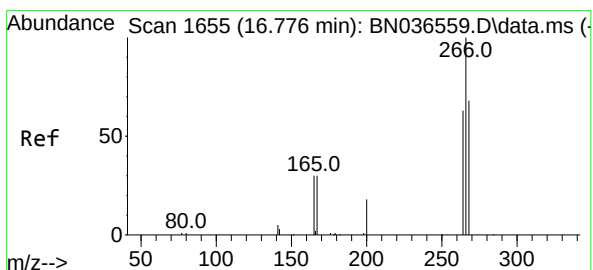
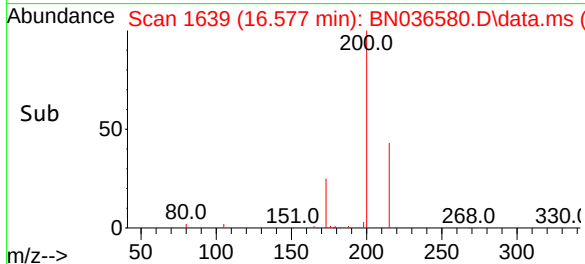
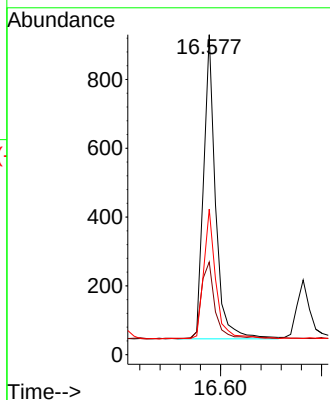
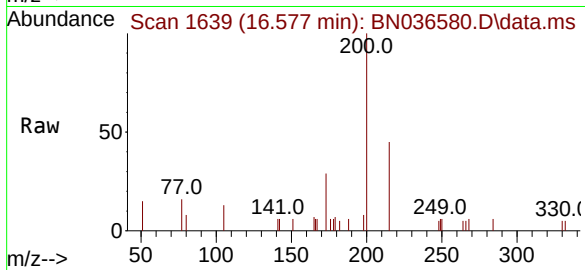




#23
Atrazine
Concen: 0.552 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

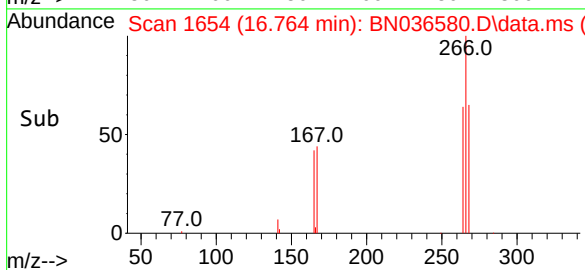
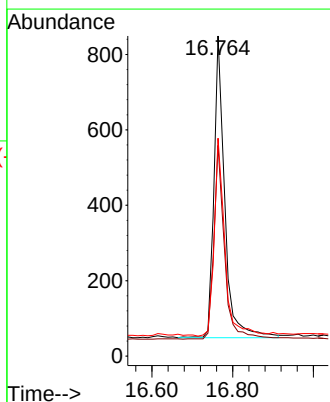
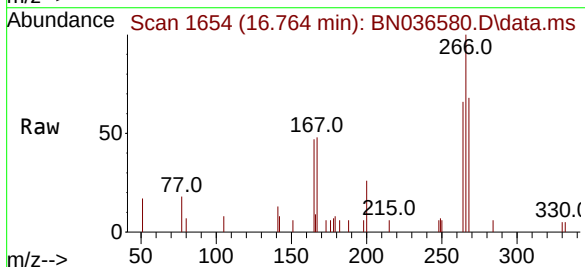
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

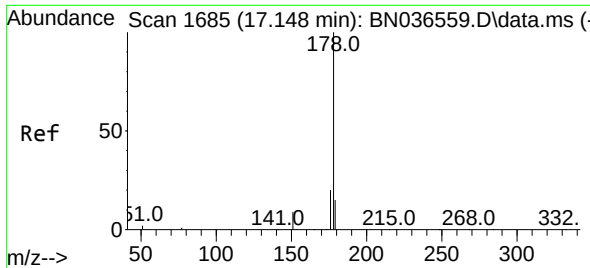
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	45.5	36.8	55.2



#24
Pentachlorophenol
Concen: 0.819 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.6	74.4
268	64.9	50.9	76.3

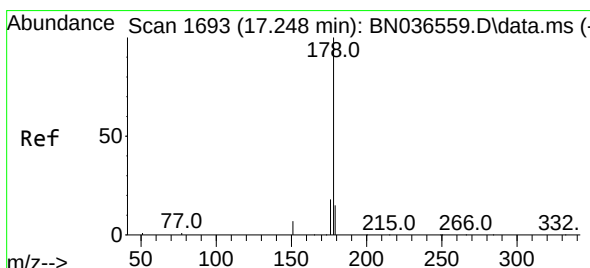
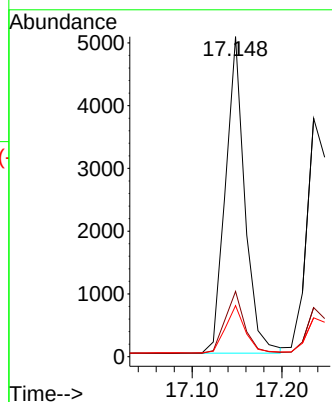
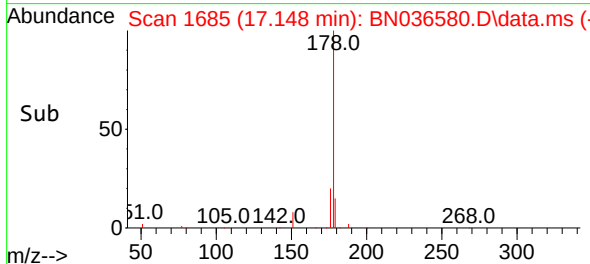
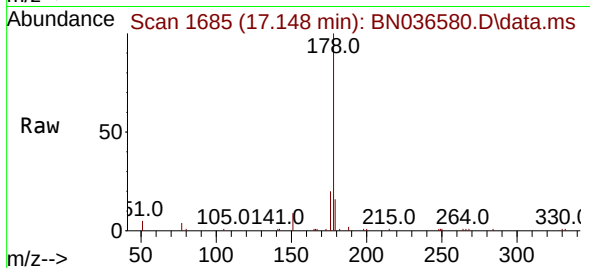




#25
Phenanthrene
Concen: 0.480 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

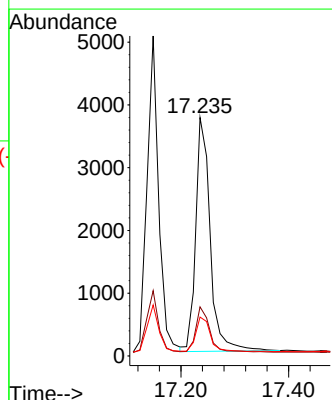
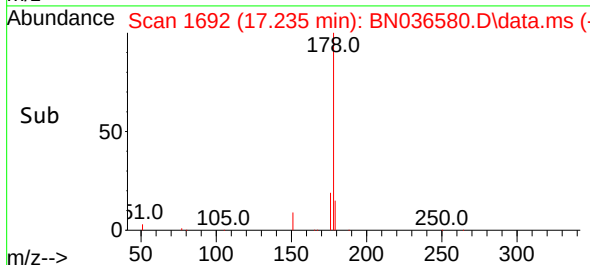
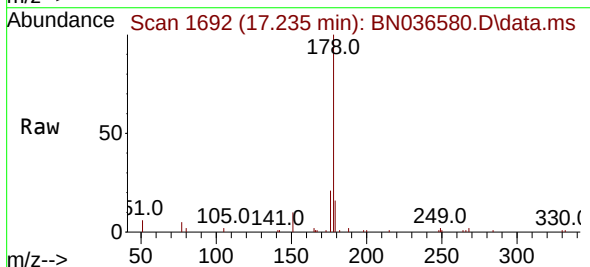
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

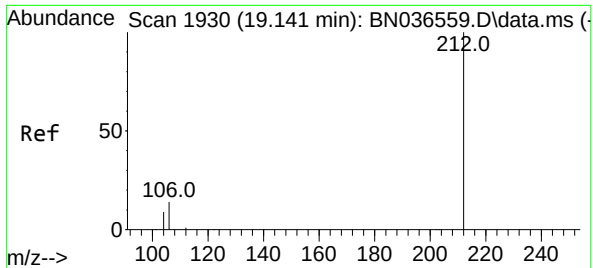
Tgt Ion:178 Resp: 7563
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.6 12.2 18.4



#26
Anthracene
Concen: 0.492 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:178 Resp: 6988
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.433 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MSD

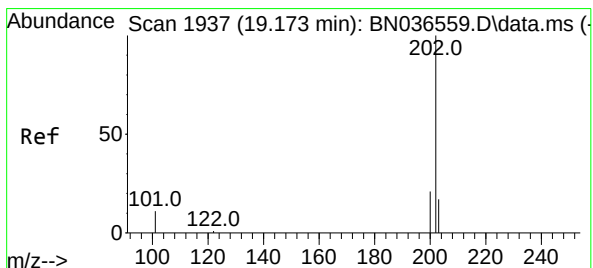
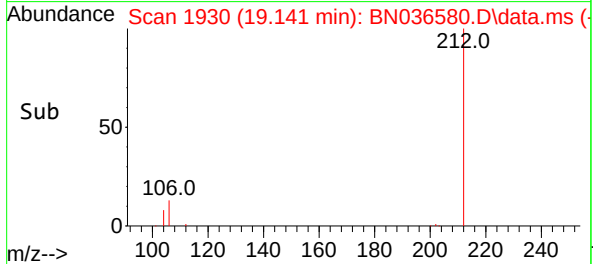
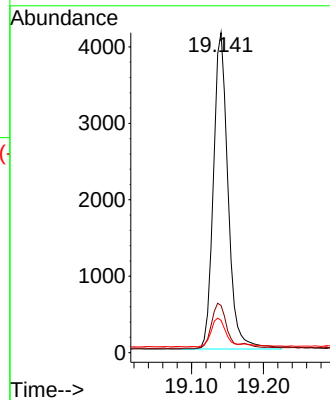
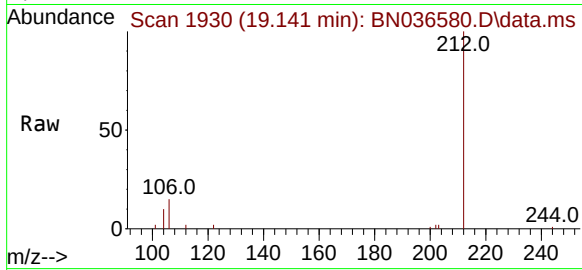
Tgt Ion:212 Resp: 5833

Ion Ratio Lower Upper

212 100

106 14.3 11.8 17.6

104 10.2 7.3 10.9



#28

Fluoranthene

Concen: 0.515 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

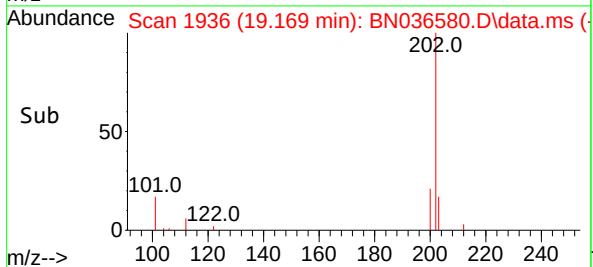
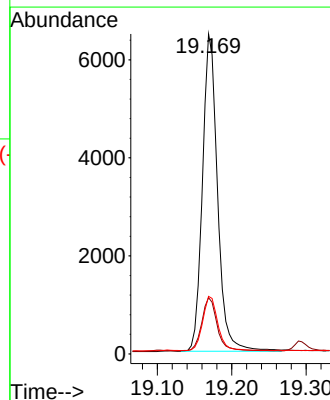
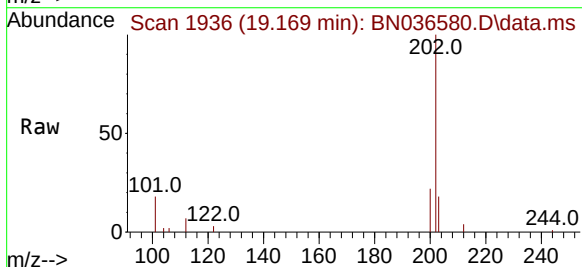
Tgt Ion:202 Resp: 9115

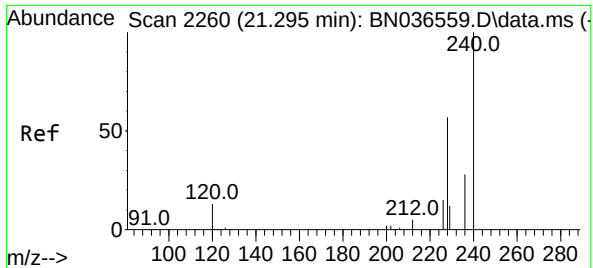
Ion Ratio Lower Upper

202 100

101 17.2 9.4 14.0#

203 17.2 13.5 20.3

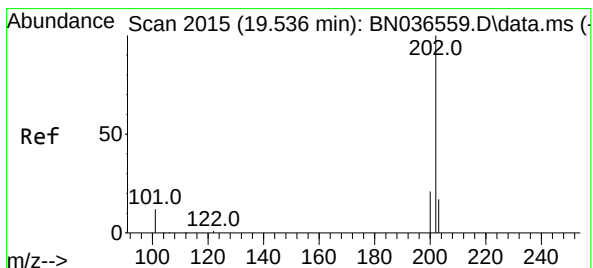
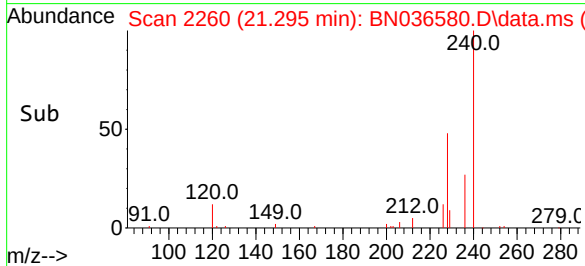
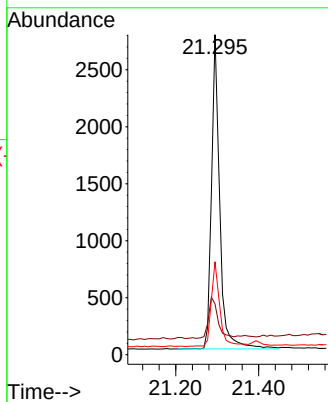
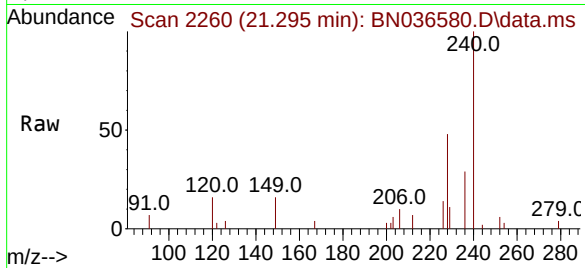




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

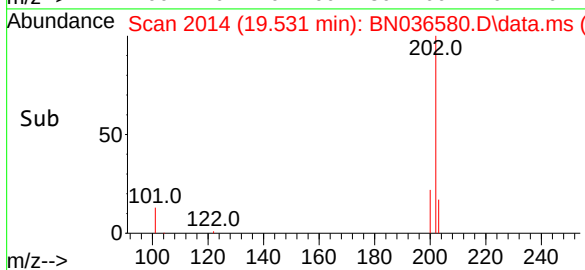
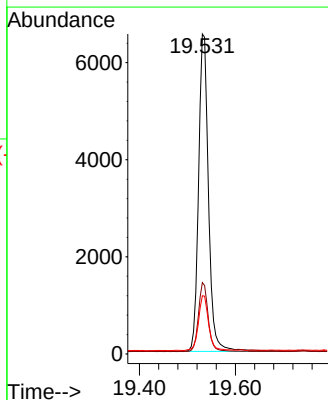
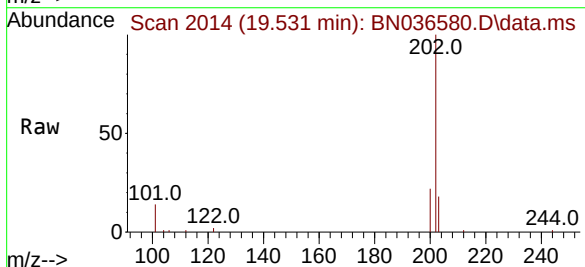
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

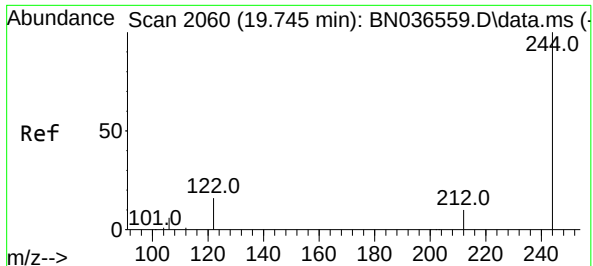
Tgt Ion:240 Resp: 3781
Ion Ratio Lower Upper
240 100
120 15.9 14.6 22.0
236 29.1 24.1 36.1



#30
Pyrene
Concen: 0.509 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:202 Resp: 9415
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.5 14.1 21.1

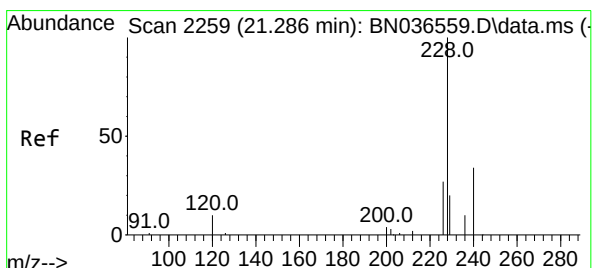
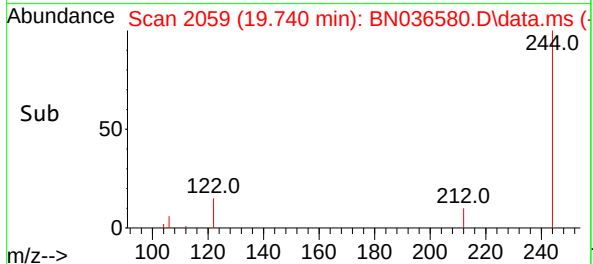
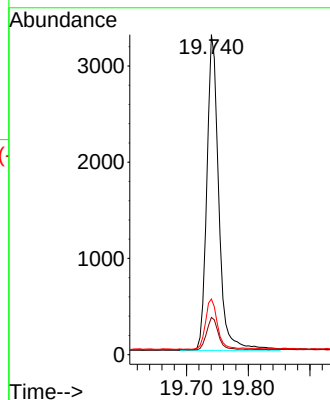
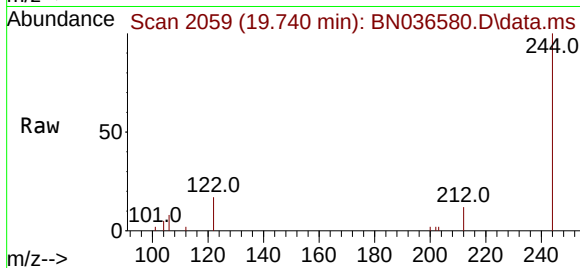




#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

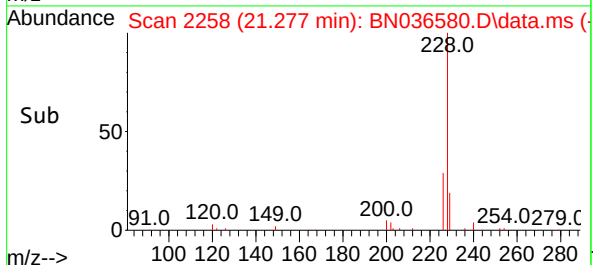
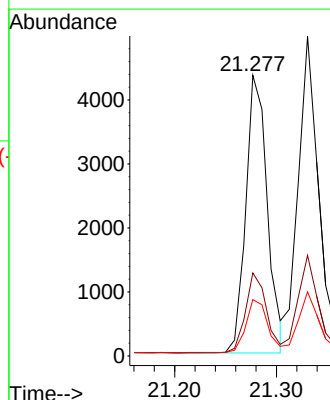
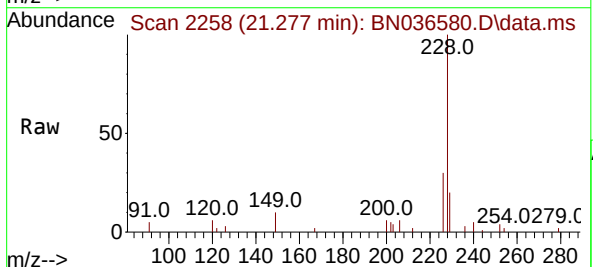
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

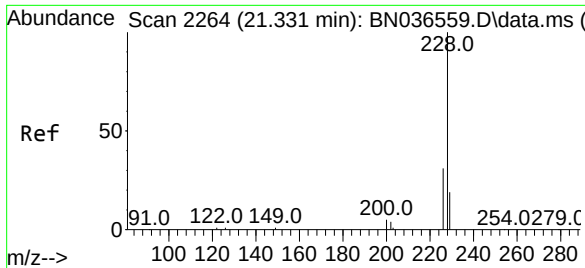
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	17.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.484 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.5	33.7
229	20.1	16.6	25.0





#33

Chrysene

Concen: 0.511 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MSD

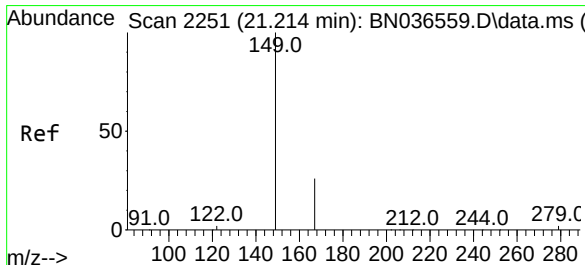
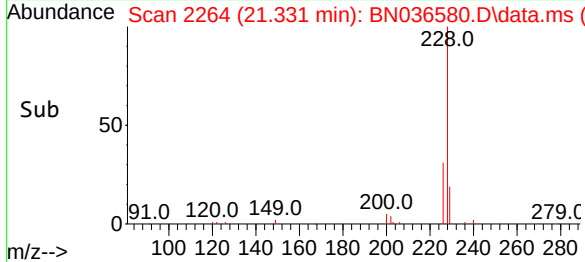
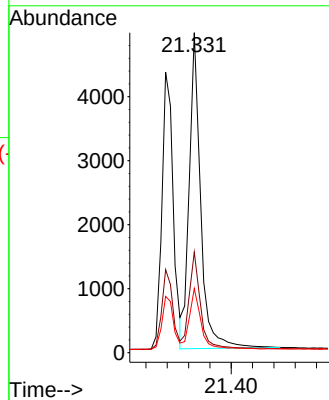
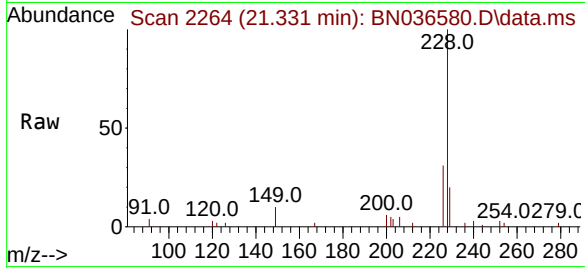
Tgt Ion:228 Resp: 7345

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 20.0 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.535 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

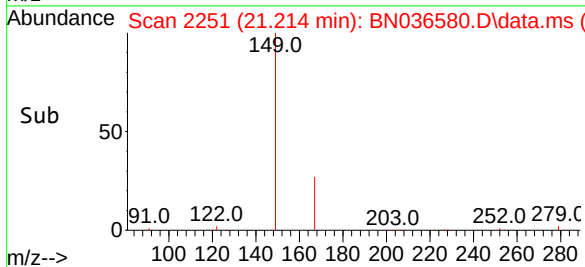
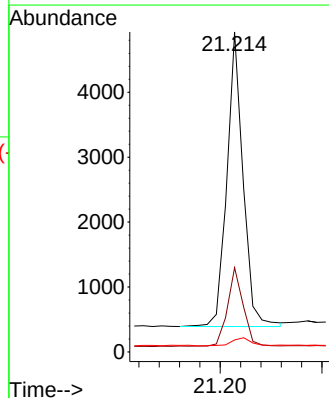
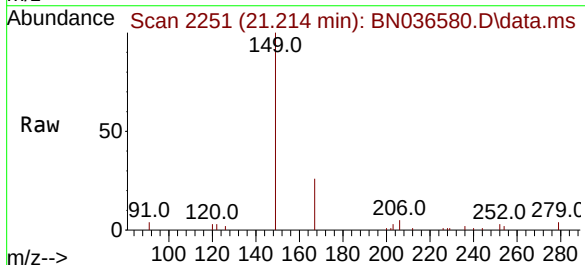
Tgt Ion:149 Resp: 5004

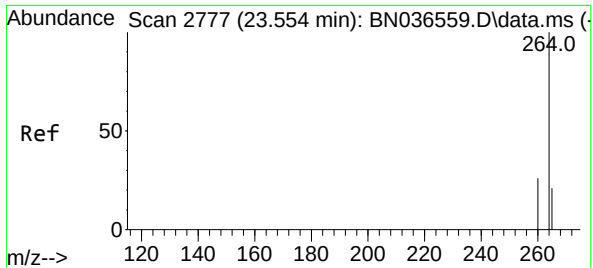
Ion Ratio Lower Upper

149 100

167 25.8 20.7 31.1

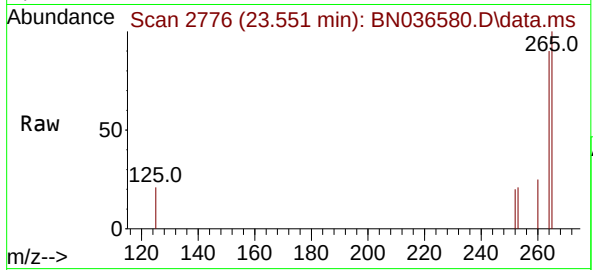
279 3.3 3.6 5.4#



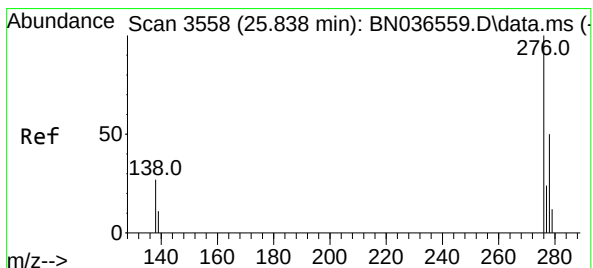
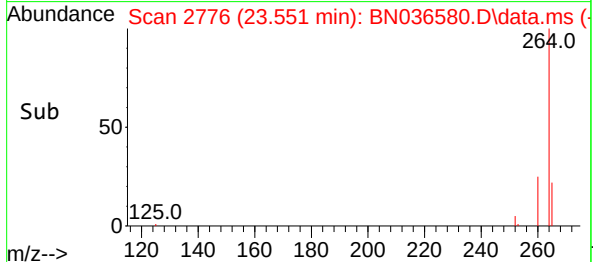
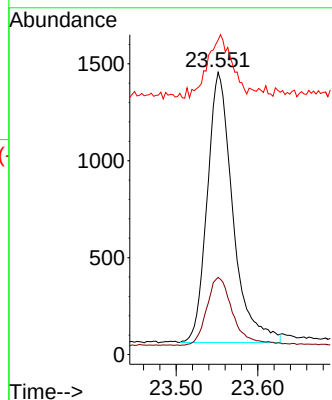


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

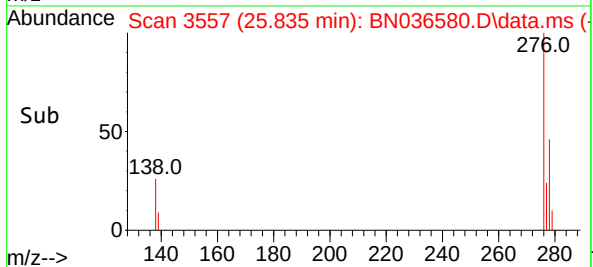
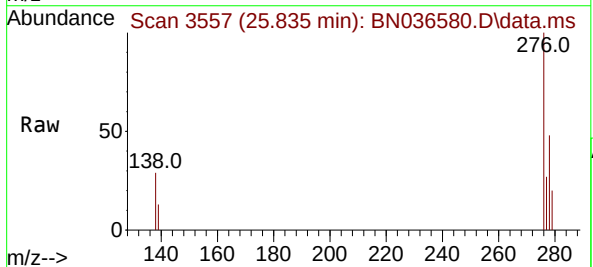
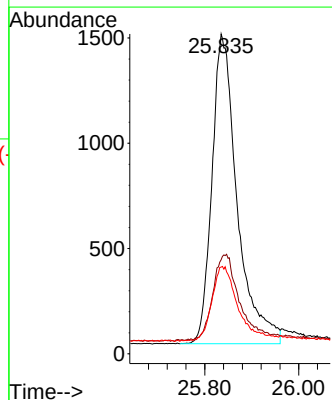


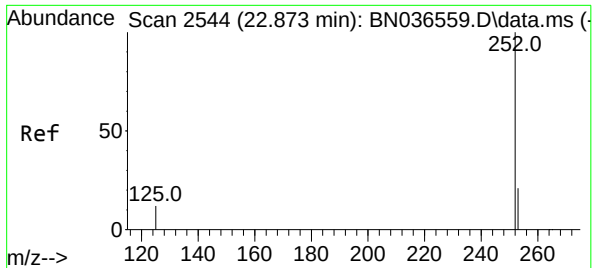
Tgt Ion:264 Resp: 3038
Ion Ratio Lower Upper
264 100
260 27.3 22.6 33.8
265 111.5 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.500 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:276 Resp: 5484
Ion Ratio Lower Upper
276 100
138 28.5 23.4 35.2
277 24.5 20.0 30.0

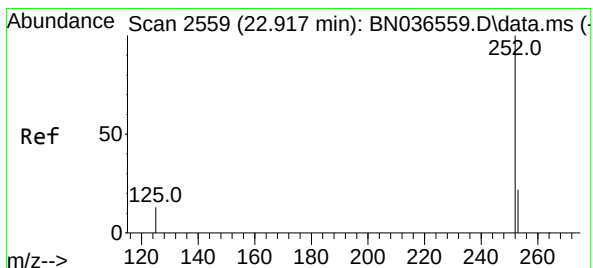
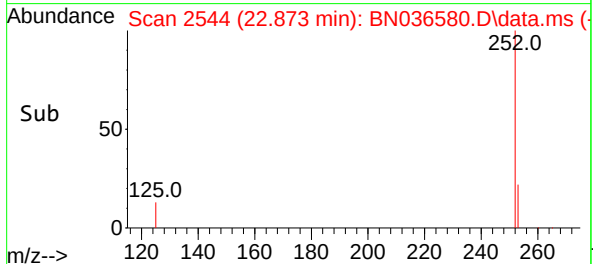
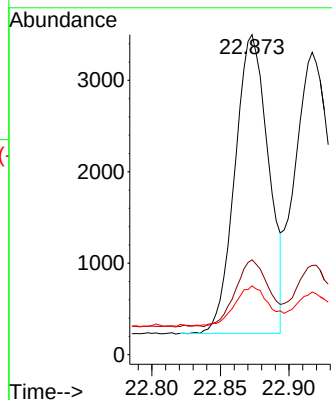
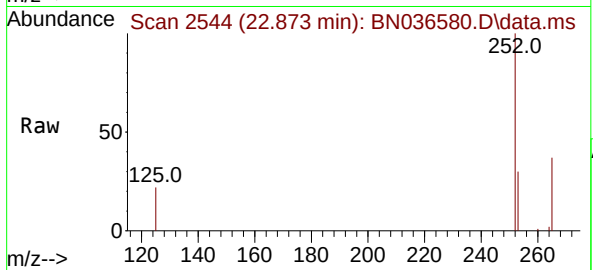




#37
Benzo(b)fluoranthene
Concen: 0.501 ng
RT: 22.873 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

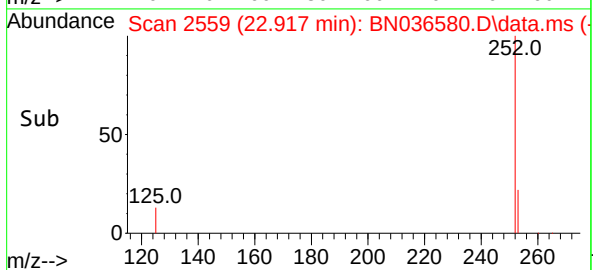
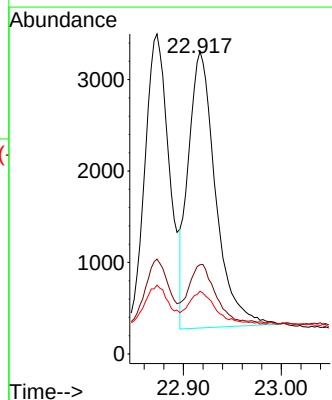
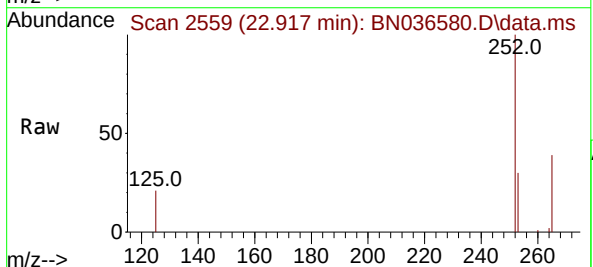
Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD

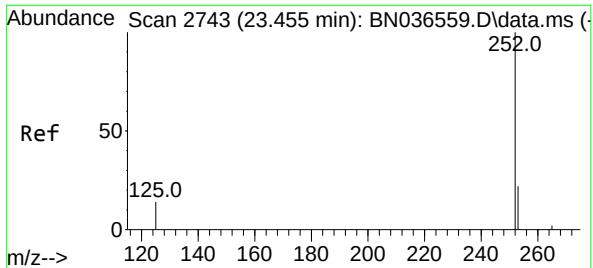
Tgt Ion:252 Resp: 5544
Ion Ratio Lower Upper
252 100
253 29.6 23.9 35.9
125 21.5 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Tgt Ion:252 Resp: 5839
Ion Ratio Lower Upper
252 100
253 29.5 24.6 36.8
125 20.8 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.546 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

Instrument :

BNA_N

ClientSampleId :

RE103D1-20250306MSD

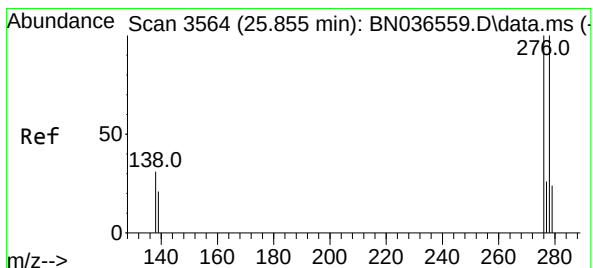
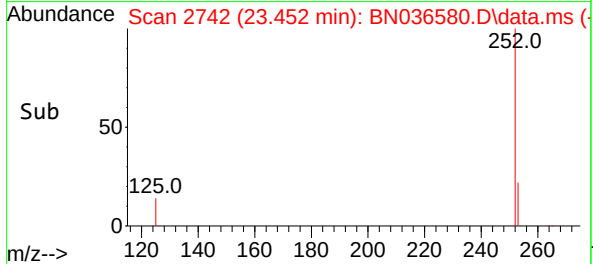
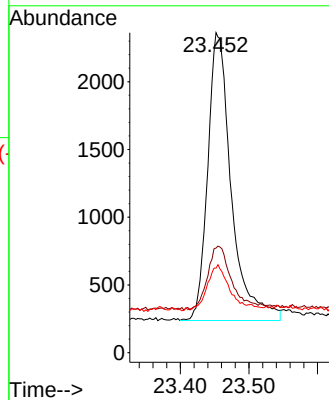
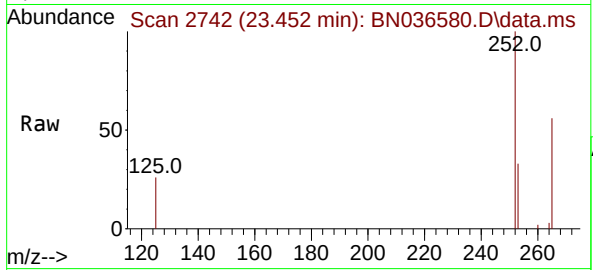
Tgt Ion:252 Resp: 5088

Ion Ratio Lower Upper

252 100

253 32.7 27.8 41.8

125 26.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.506 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036580.D

Acq: 11 Mar 2025 14:21

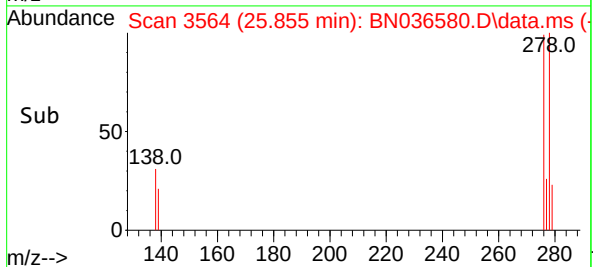
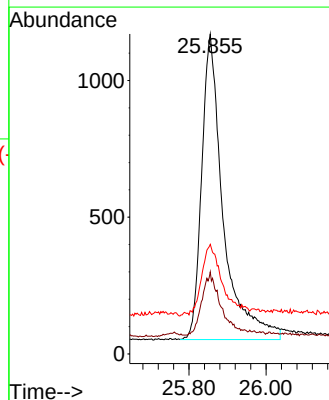
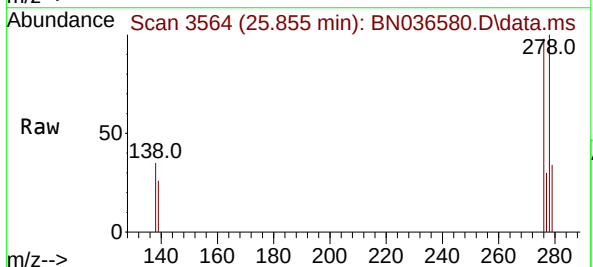
Tgt Ion:278 Resp: 4317

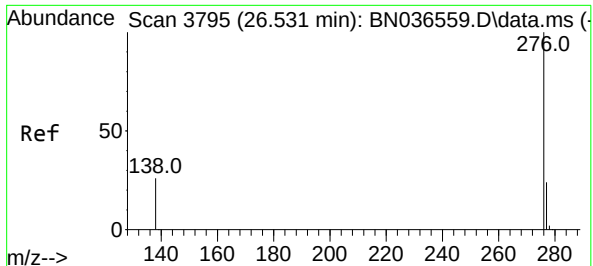
Ion Ratio Lower Upper

278 100

139 25.6 20.8 31.2

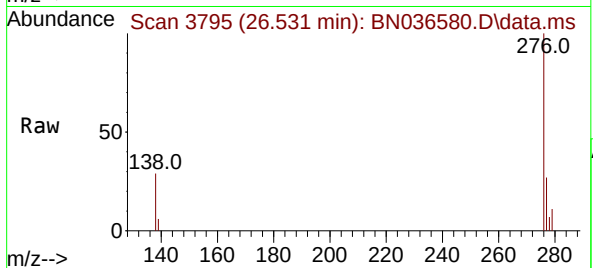
279 34.3 28.8 43.2



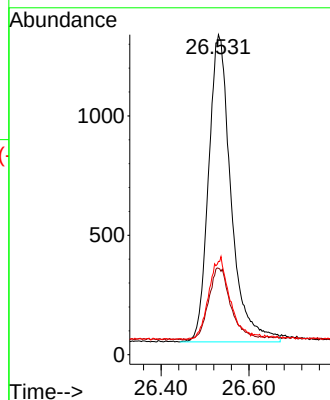
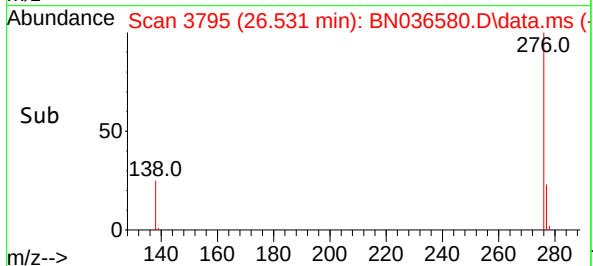


#41
Benzo(g,h,i)perylene
Concen: 0.467 ng
RT: 26.531 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036580.D
Acq: 11 Mar 2025 14:21

Instrument :
BNA_N
ClientSampleId :
RE103D1-20250306MSD



Tgt Ion:276 Resp: 4563
Ion Ratio Lower Upper
276 100
277 27.0 22.2 33.4
138 29.2 24.1 36.1



Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
Q1531-06	BN036569.D	Bis(2-ethylhexyl)phthalate	anahy	3/11/2025 9:20:01 AM	Jagrut	3/11/2025 10:27:54 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN031125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167057BS	BN036588.D	Benzo(k)fluoranthene	anahy	3/12/2025 10:53:01 AM	Jagrut	3/12/2025 4:49:58 PM	Peak Integrated by Software
SSTDCCC0.4	BN036589.D	Benzo(b)fluoranthene	anahy	3/12/2025 10:53:38 AM	Jagrut	3/12/2025 4:50:01 PM	Peak Integrated by Software
SSTDCCC0.4	BN036589.D	Benzo(k)fluoranthene	anahy	3/12/2025 10:53:38 AM	Jagrut	3/12/2025 4:50:01 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN031225

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 # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDIC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDIC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDIC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDIC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDIC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDIC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDIC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDIC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN031125

Review By	anahy	Review On	3/12/2025 10:53:54 AM
Supervise By	Jagrut	Supervise On	3/12/2025 4:50:16 PM
SubDirectory	BN031125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036573.D	11 Mar 2025 08:50	RC/JU	Ok
2	SSTDCCC0.4	BN036574.D	11 Mar 2025 10:08	RC/JU	Ok
3	PB167057BL	BN036575.D	11 Mar 2025 10:44	RC/JU	Ok
4	Q1531-01	BN036576.D	11 Mar 2025 11:20	RC/JU	Ok
5	Q1531-02	BN036577.D	11 Mar 2025 11:56	RC/JU	Ok
6	Q1531-07	BN036578.D	11 Mar 2025 12:33	RC/JU	Dilution
7	Q1531-08MS	BN036579.D	11 Mar 2025 13:45	RC/JU	Ok
8	Q1531-09MSD	BN036580.D	11 Mar 2025 14:21	RC/JU	Ok
9	Q1531-07DL	BN036581.D	11 Mar 2025 14:57	RC/JU	Ok
10	Q1531-11	BN036582.D	11 Mar 2025 15:32	RC/JU	Ok
11	Q1531-12	BN036583.D	11 Mar 2025 16:09	RC/JU	Ok
12	Q1531-15	BN036584.D	11 Mar 2025 16:44	RC/JU	Dilution
13	Q1531-16	BN036585.D	11 Mar 2025 17:21	RC/JU	Dilution
14	Q1531-17	BN036586.D	11 Mar 2025 17:57	RC/JU	Dilution
15	Q1531-18	BN036587.D	11 Mar 2025 18:33	RC/JU	Ok
16	PB167057BS	BN036588.D	11 Mar 2025 19:09	RC/JU	Ok,M
17	SSTDCCC0.4	BN036589.D	11 Mar 2025 19:46	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN031225

Review By	anahy	Review On	3/13/2025 9:45:45 AM
Supervise By	Jagrut	Supervise On	3/13/2025 10:05:02 AM
SubDirectory	BN031225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036590.D	12 Mar 2025 08:35	RC/JU	Ok
2	SSTDCCC0.4	BN036591.D	12 Mar 2025 09:14	RC/JU	Ok
3	PB167057BL	BN036592.D	12 Mar 2025 09:50	RC/JU	Ok
4	Q1531-10	BN036593.D	12 Mar 2025 10:26	RC/JU	Ok
5	Q1531-19	BN036594.D	12 Mar 2025 11:02	RC/JU	Ok
6	Q1531-20	BN036595.D	12 Mar 2025 11:38	RC/JU	Ok
7	Q1531-15DL	BN036596.D	12 Mar 2025 12:16	RC/JU	Ok
8	Q1531-16DL	BN036597.D	12 Mar 2025 12:52	RC/JU	Ok
9	Q1531-17DL	BN036598.D	12 Mar 2025 13:29	RC/JU	Ok
10	SSTDCCC0.4	BN036599.D	12 Mar 2025 14:39	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031125

Review By	anahy	Review On	3/12/2025 10:53:54 AM
Supervise By	Jagrut	Supervise On	3/12/2025 4:50:16 PM
SubDirectory	BN031125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036573.D	11 Mar 2025 08:50		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036574.D	11 Mar 2025 10:08		RC/JU	Ok
3	PB167057BL	PB167057BL	BN036575.D	11 Mar 2025 10:44		RC/JU	Ok
4	Q1531-01	RE122D2-20250305	BN036576.D	11 Mar 2025 11:20		RC/JU	Ok
5	Q1531-02	RE122D3-20250305	BN036577.D	11 Mar 2025 11:56		RC/JU	Ok
6	Q1531-07	RE103D1-20250306	BN036578.D	11 Mar 2025 12:33	Need 2X Dilution	RC/JU	Dilution
7	Q1531-08MS	RE103D1-20250306MS	BN036579.D	11 Mar 2025 13:45		RC/JU	Ok
8	Q1531-09MSD	RE103D1-20250306MS	BN036580.D	11 Mar 2025 14:21		RC/JU	Ok
9	Q1531-07DL	RE103D1-20250306DL	BN036581.D	11 Mar 2025 14:57		RC/JU	Ok
10	Q1531-11	RE103D2-20250306	BN036582.D	11 Mar 2025 15:32		RC/JU	Ok
11	Q1531-12	RE108D2-20250306	BN036583.D	11 Mar 2025 16:09		RC/JU	Ok
12	Q1531-15	RE105D2-20250306	BN036584.D	11 Mar 2025 16:44	Need 2X Dilution	RC/JU	Dilution
13	Q1531-16	RE125D1-20250307	BN036585.D	11 Mar 2025 17:21	Need 2X Dilution	RC/JU	Dilution
14	Q1531-17	RE125D2-20250307	BN036586.D	11 Mar 2025 17:57	Need 5X Dilution	RC/JU	Dilution
15	Q1531-18	FB01	BN036587.D	11 Mar 2025 18:33		RC/JU	Ok
16	PB167057BS	PB167057BS	BN036588.D	11 Mar 2025 19:09		RC/JU	Ok,M
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036589.D	11 Mar 2025 19:46		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031225

Review By	anahy	Review On	3/13/2025 9:45:45 AM
Supervise By	Jagrut	Supervise On	3/13/2025 10:05:02 AM
SubDirectory	BN031225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036590.D	12 Mar 2025 08:35		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036591.D	12 Mar 2025 09:14		RC/JU	Ok
3	PB167057BL	PB167057BL	BN036592.D	12 Mar 2025 09:50		RC/JU	Ok
4	Q1531-10	RE103D3-20250306	BN036593.D	12 Mar 2025 10:26		RC/JU	Ok
5	Q1531-19	RE104D2-20250307	BN036594.D	12 Mar 2025 11:02		RC/JU	Ok
6	Q1531-20	RE104D3-20250307	BN036595.D	12 Mar 2025 11:38		RC/JU	Ok
7	Q1531-15DL	RE105D2-20250306DL	BN036596.D	12 Mar 2025 12:16		RC/JU	Ok
8	Q1531-16DL	RE125D1-20250307DL	BN036597.D	12 Mar 2025 12:52		RC/JU	Ok
9	Q1531-17DL	RE125D2-20250307DL	BN036598.D	12 Mar 2025 13:29		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN036599.D	12 Mar 2025 14:39		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 03/10/2025

Matrix : Water **Extraction Start Time :** 11:35

Wegh By: N/A **Extraction By:** RS **Extraction End Date :** 03/10/2025

Balance check: N/A **Filter By:** RS **Extraction End Time :** 16:55

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7 **Supervisor By :** RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6741
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	E3878
Baked Na2SO4	N/A	EP2593
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
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# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/10/25	RS (B4-bb)	Rc/svoc
17:00	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167057BL	SBLK057	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB167057BS	SLCS057	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
Q1531-01	RE122D2-20250305	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		3
Q1531-02	RE122D3-20250305	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		4
Q1531-03	RE122D1-20250305	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		5
Q1531-04	RE126D1-20250306	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		6
Q1531-05	RE126D2-20250306	SVOC-SIMGrou p1	920	6	RUPESH	ritesh	1	C		7
Q1531-06	DUP01-20250306	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		8
Q1531-07	RE103D1-20250306	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		9
Q1531-08	Q1531-07MS	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		10
Q1531-09	Q1531-07MSD	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		11
Q1531-10	RE103D3-20250306	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		12
Q1531-11	RE103D2-20250306	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		13
Q1531-12	RE108D2-20250306	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		14
Q1531-13	RE108D1-20250306	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		15
Q1531-14	RE105D1-20250306	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		16
Q1531-15	RE105D2-20250306	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		SEP-1
Q1531-16	RE125D1-202503057	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		2
Q1531-17	RE125D2-20250307	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		3
Q1531-18	FB01	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		4
Q1531-19	RE104D2-20250307	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		5
Q1531-20	RE104D3-20250307	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		6

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1531 WorkList ID : 188159 Department : Extraction Date : 03-10-2025 11:30:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1531-01	RE122D2-20250305	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/05/2025	8270-Modified
Q1531-02	RE122D3-20250305	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/05/2025	8270-Modified
Q1531-03	RE122D1-20250305	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/05/2025	8270-Modified
Q1531-04	RE126D1-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-05	RE126D2-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-06	DUP01-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-07	RE103D1-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-08	Q1531-07MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-09	Q1531-07MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-10	RE103D3-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-11	RE103D2-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-12	RE108D2-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-13	RE108D1-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-14	RE105D1-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-15	RE105D2-20250306	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/06/2025	8270-Modified
Q1531-16	RE125D1-202503057	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/07/2025	8270-Modified
Q1531-17	RE125D2-20250307	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/07/2025	8270-Modified
Q1531-18	FB01	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/07/2025	8270-Modified
Q1531-19	RE104D2-20250307	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/07/2025	8270-Modified
Q1531-20	RE104D3-20250307	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I31	03/07/2025	8270-Modified

Date/Time 3/10/25 11:30
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: JD (SM)

Date/Time 3/10/25 12:15
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Ext-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1531
Test : SVOC-SIMGroup1
Prepbatch ID : PB167057,
Sequence ID/Qc Batch ID: BN031025,BN031125,BN031225,

Standard ID :
EP2559,EP2565,EP2593,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6741,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

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	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 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	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = 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	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = 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>
3895	50 ug/ml DFTTP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = 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	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel
								02/28/2025

FROM 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6741	02/20/2025	04/10/2025	Rahul Chavli	None	None	mohammad ahmed
								02/28/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11832 + 99.96800ml of E3873 = Final Quantity: 100.000 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	07/01/2025	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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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

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)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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)	0000281827	06/02/2025	06/01/2022 / Rajesh	04/05/2022 / william	M5173

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 #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

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	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

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	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

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	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

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	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
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 : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

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

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:

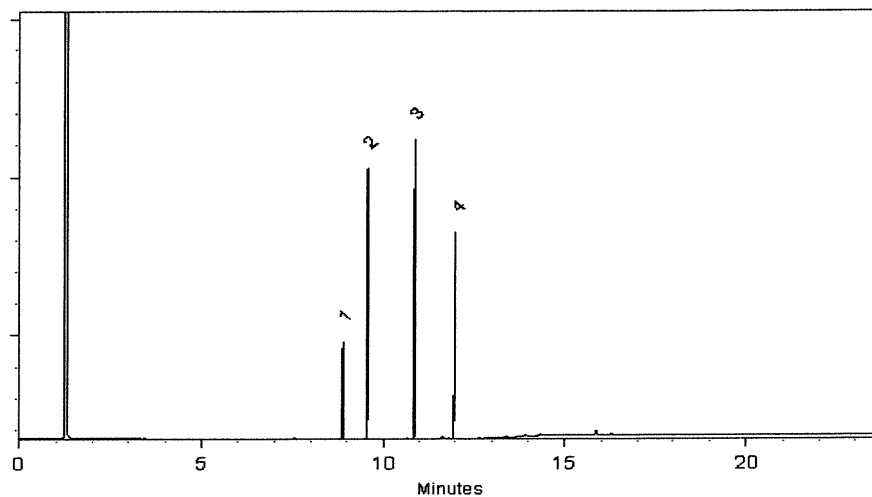
250°C

Det. Temp:

330°C

Det. Type:

FID



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.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

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

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

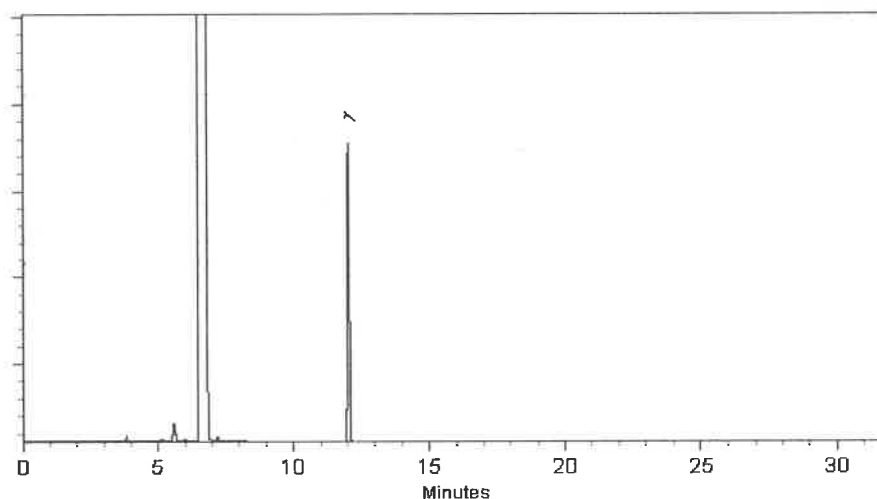
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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



**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.

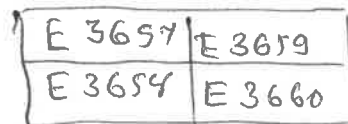
This document has been electronically produced and is valid without a signature.

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)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 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 3828

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

12/27/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μ eq/g)	≤ 0.3	0.0
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 3871

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

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_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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
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 3878

Jamie Croak
Director Quality Operations, Bioscience Production

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Avantor Performance Materials, LLC

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Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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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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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:

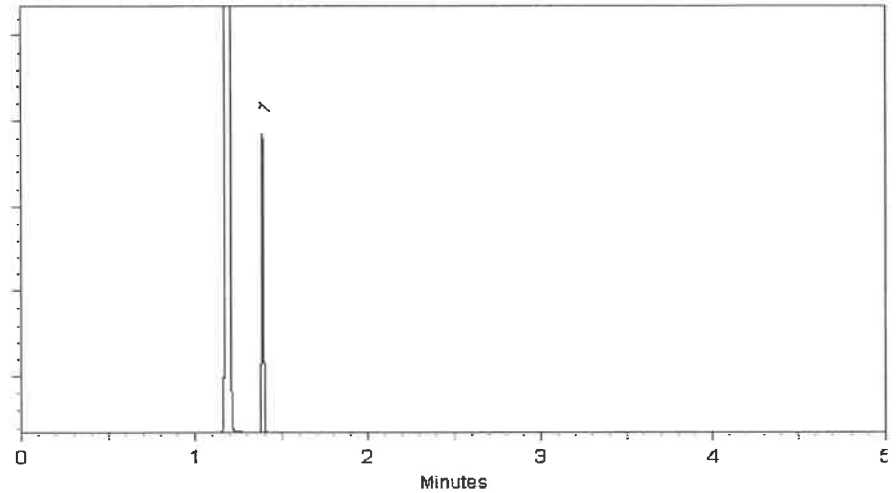
FID

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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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

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

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

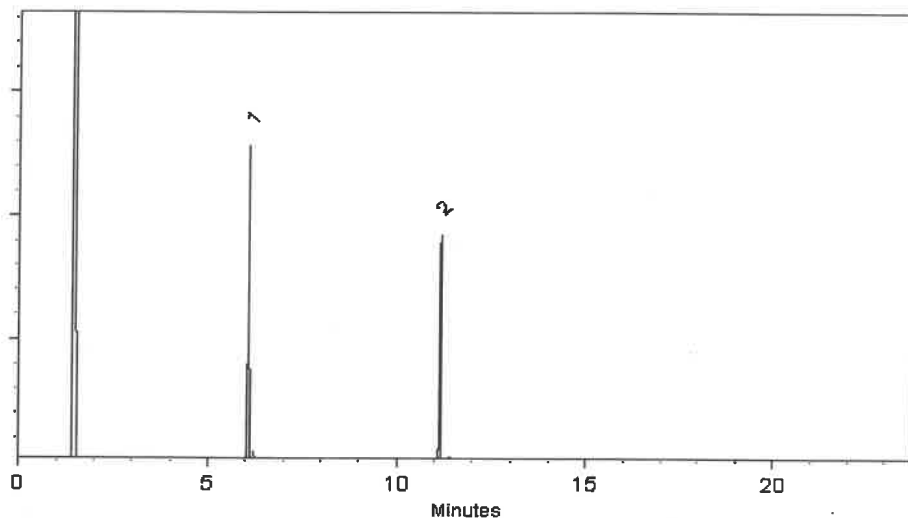
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

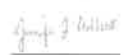


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

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%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

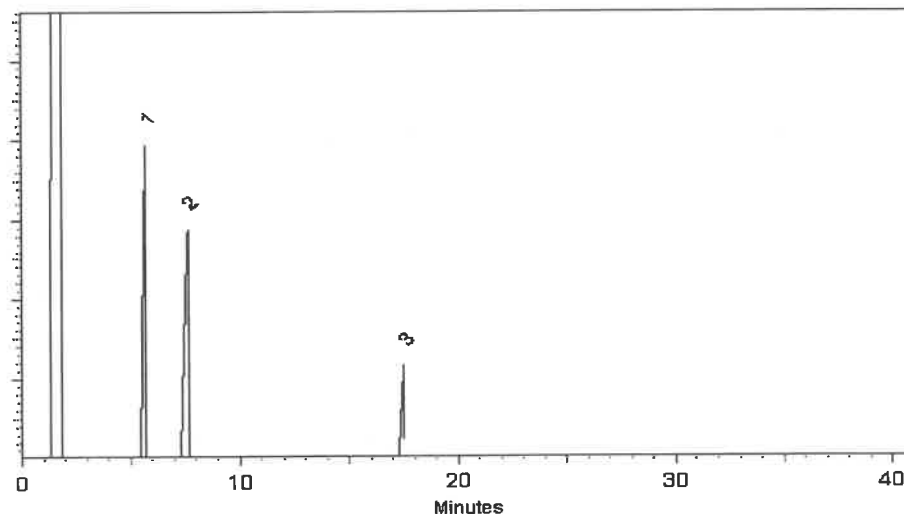
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

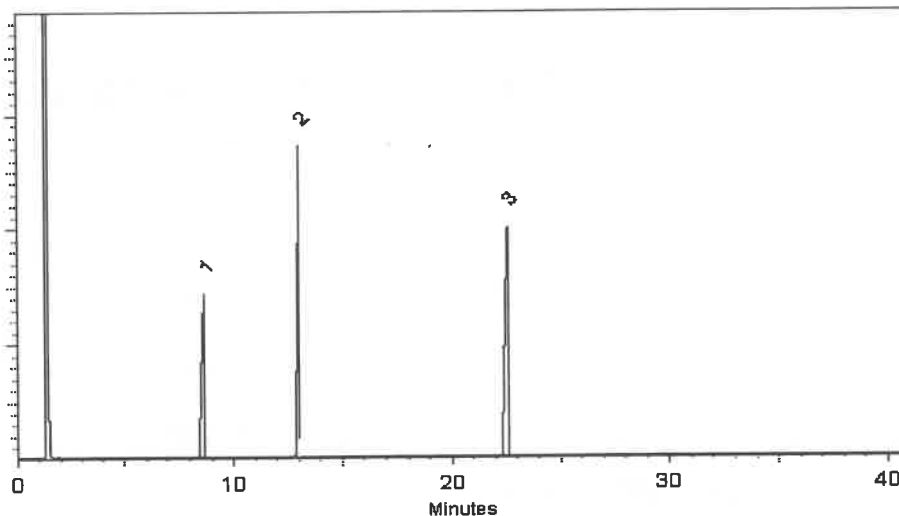
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

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



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 4

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

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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

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



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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.:** A0206540

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331 }

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%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* 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:

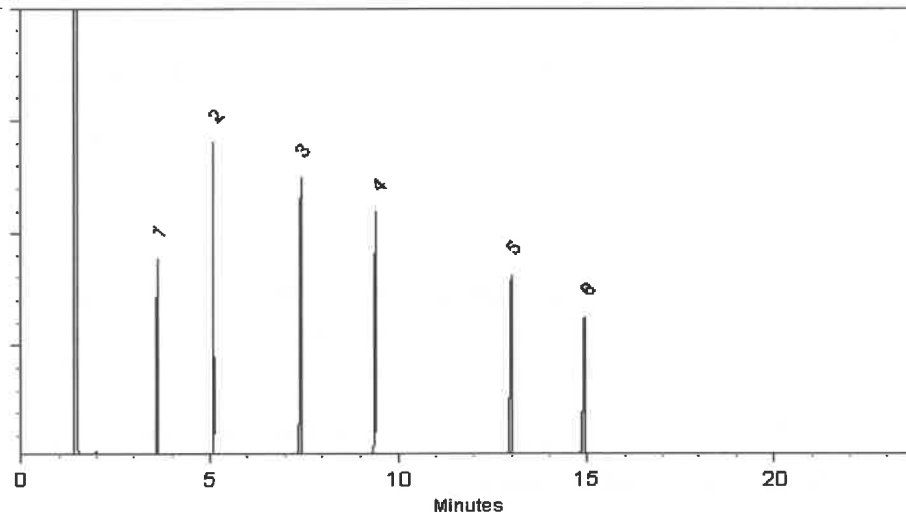
FID

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.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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



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gravimetric



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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	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~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 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.



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

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- 18

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www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041501

Q1531

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: RESOLUTION

ADDRESS:

CITY STATE: ZIP:

ATTENTION: ELEANOR VIVAUDOU

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO: 60731872 LOCATION: BETH PAGE

PROJECT MANAGER: E. VIVAUDOU

e-mail: ELEANOR.VIVAUDOU@AECOM.COM

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:

ADDRESS: 27 ELLIS PLACE

CITY OSSINING STATE: NY ZIP: 10563

ATTENTION: E. VIVAUDOU PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: STANDARD DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

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 MSDC EDD CAT B

1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	E	E							
1.	RE122D2-20250305	6W	X		3-5-25	1400	3	2	1								
2.	RE122D3-20250305	6W	X		3-5-25	1345	3	2	1								
3.	RE122D1-20250305	6W	X		3-5-25	1455	3	2	1								
4.	RE126D1-20250306	6W	X		3-6-25	0905	3	2	1								
5.	RE126D2-20250306	6W	X		3-6-25	1015	3	2	1								
6.	DUP01-20250306	6W	X		3-5-25	—	3	2	1								
7.	RE103D1-20250306	6W	X		3-6-25	0940	9	6	3								MMS/MASD
8.	RE103D3-20250306	6W	X		↓	10/0	3	2	1								
9.	RE103D2-20250306	6W	X		↓	11/0	3	2	1								
10.	RE108D2-20250306	6W	X		↓	1150	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1400</u>	RECEIVED BY:	DATE/TIME: <u>1400</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.1</u> °C
1.	<u>3-7-25</u>		<u>3-7-25</u>	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2.		2.		
RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1645</u>	RECEIVED BY:		
3.	<u>3-7-25</u>	3.		

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AELOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL.
CITY: OSSINING STATE: NY ZIP: 10563
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE) _____ 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
X EDD FORMAT NYS DEC EDD CAT B

1 2 3 4 5 6 7 8 9
VOCs 8260
1,4 DIOXANE 8270

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		A/E	E								
1.	RE108D1-20250306	GW	X	X	3-6-25	1205	3	2	1								
2.	RE105D1-20250306	GW	X	X	↓	1420	3	2	1								
3.	RE105D2-20250306	GW	X	X	↓	1448	3	2	1								
4.	RE125D1-20250307	GW	X	X	3-7-25	1030	3	2	1								
5.	RE125D2-20250307	GW	X	X	3-7-25	1000	3	2	1								
6.	FB-01	DW	X	X	3-6-25	1350	3	2	1								
7.	RE104D2-20250307	GW	X	X	3-7-25	1012	3	2	1								
8.	RE104D3-20250307	GW	X	X	3-7-25	0950	3	2	1								
9.	TB	DW	X	X	10-3-24	—	2	2									
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 3-7-25	RECEIVED BY: 1.	1400	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.1</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1645 3-7-25	RECEIVED BY: 3.		

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

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1531 AECO15

Order Date : 3/7/2025 2:28:00 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 : 3/7/2025 12:00:00 AM

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
Q1531-01	RE122D2-20250305	Water	03/05/2025	14:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-02	RE122D3-20250305	Water	03/05/2025	13:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-03	RE122D1-20250305	Water	03/05/2025	14:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-04	RE126D1-20250306	Water	03/06/2025	09:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-05	RE126D2-20250306	Water	03/06/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-06	DUP01-20250306	Water	03/06/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-07	RE103D1-20250306	Water	03/06/2025	09:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-08	Q1531-07MS	Water	03/06/2025	09:40					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1531 AECO15

Order Date : 3/7/2025 2:28:00 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 : 3/7/2025 12:00:00 AM

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
Q1531-09	Q1531-07MSD	Water	03/06/2025	09:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-10	RE103D3-20250306	Water	03/06/2025	10:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-11	RE103D2-20250306	Water	03/06/2025	11:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-12	RE108D2-20250306	Water	03/06/2025	11:50					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-13	RE108D1-20250306	Water	03/06/2025	12:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-14	RE105D1-20250306	Water	03/06/2025	14:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1531-15	RE105D2-20250306	Water	03/06/2025	14:48					
					VOCMS Group1		8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1531 AECO15

Order Date : 3/7/2025 2:28:00 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 : 3/7/2025 12:00:00 AM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order : 16:45

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
Q1531-16	~~RE125D1-202503067~~ RE125D1-20250307	Water	03/07/2025	10:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-17	RE125D2-20250307	Water	03/07/2025	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-18	FB01	Water	~~03/07/2025~~ 03/06/2025	13:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-19	RE104D2-20250307	Water	03/07/2025	10:12					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-20	RE104D3-20250307	Water	03/07/2025	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1531-21	TB	Water	03/07/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1531	AECO15	Order Date : 3/7/2025 2:28:00 PM	Project Mgr :	NYS ASP B
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : ~~Results Only~~	
Client Contact : Eleanor Vivadou		Receive DateTime : 3/7/2025 12:00:00 AM	EDD Type : EQUIS	
Invoice Name : AECOM Technical Services		Purchase Order : 16:45	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

Relinquished By : CR

Date / Time : 3-10-25 8:55

Received By : Sam

Date / Time : 3/10/25 8:55 Ref # 4

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

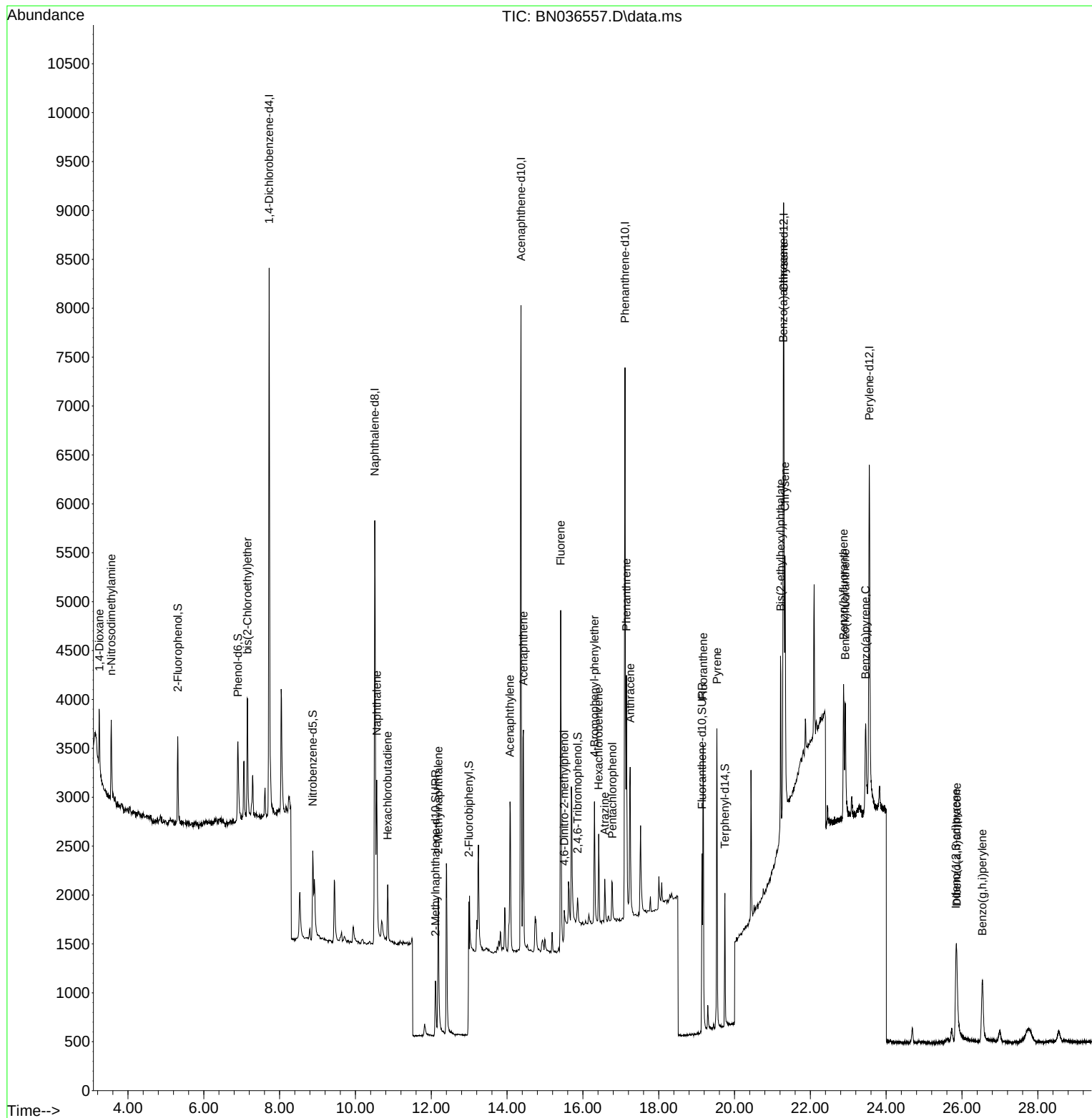
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	534	0.175	ng	# 78
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	# 98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	122	0.204	ng	# 24
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

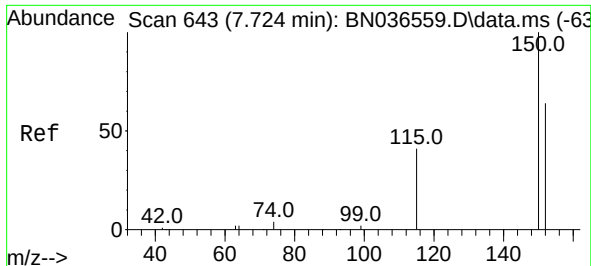
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

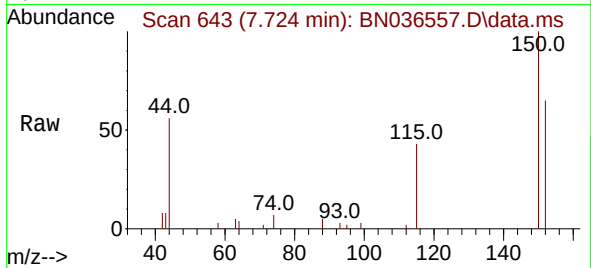
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



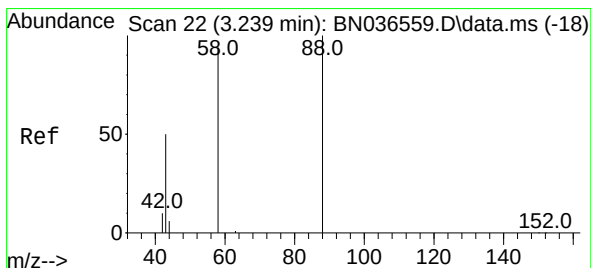
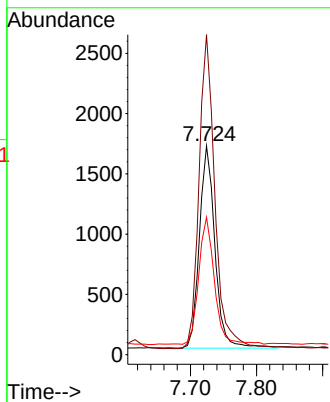
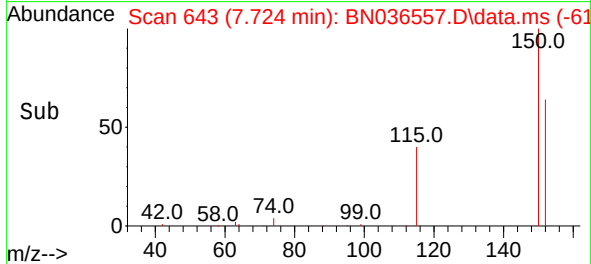


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

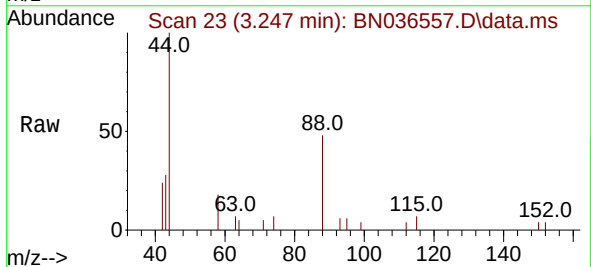
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



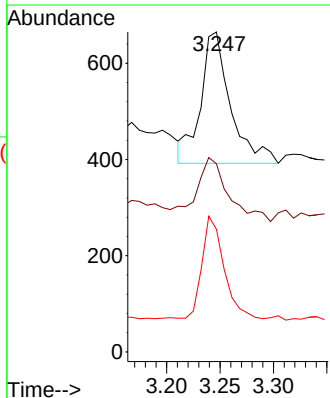
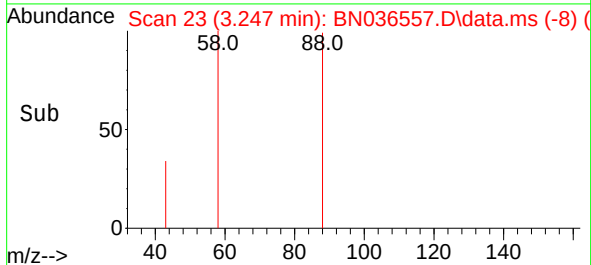
Tgt Ion:152 Resp: 2755
 Ion Ratio Lower Upper
 152 100
 150 153.3 123.7 185.5
 115 65.8 54.3 81.5

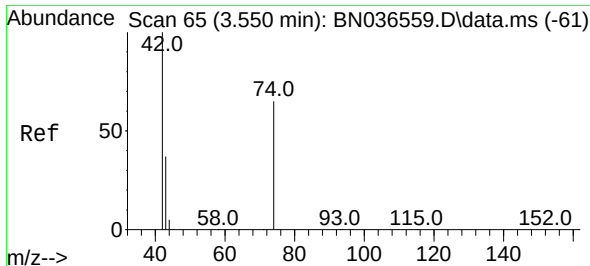


#2
 1,4-Dioxane
 Concen: 0.175 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42



Tgt Ion: 88 Resp: 534
 Ion Ratio Lower Upper
 88 100
 43 53.0 37.8 56.8
 58 57.3 67.4 101.2#

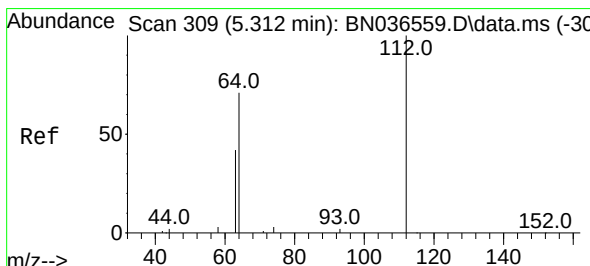
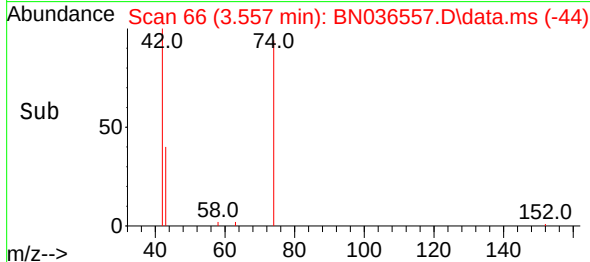
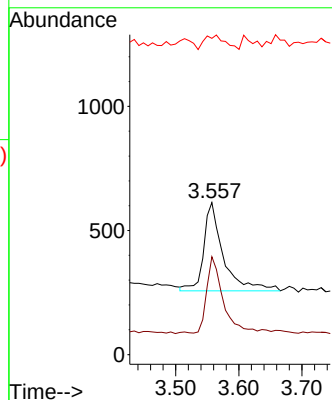
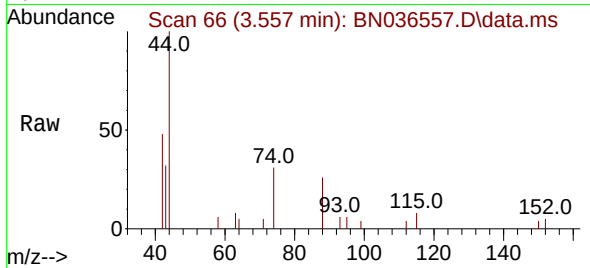




#3
 n-Nitrosodimethylamine
 Concen: 0.124 ng
 RT: 3.557 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

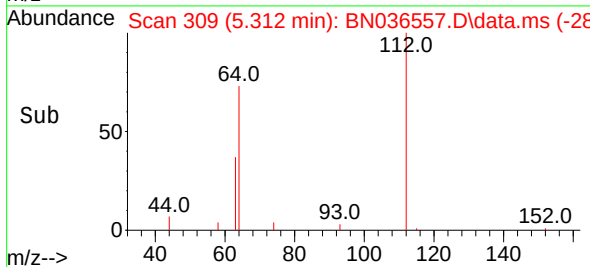
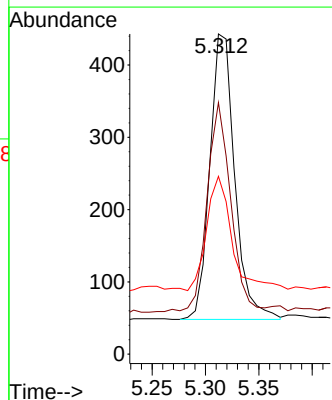
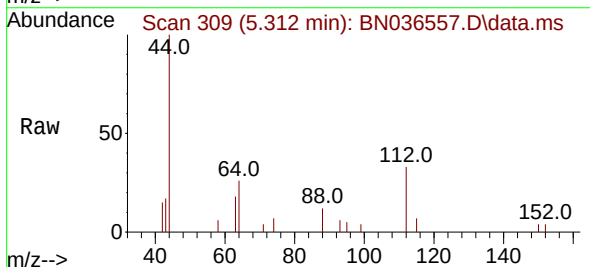
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

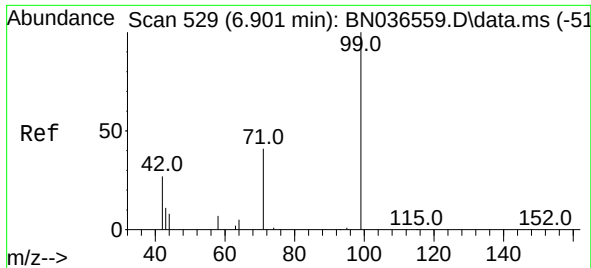
Tgt Ion: 42 Resp: 766
 Ion Ratio Lower Upper
 42 100
 74 73.0 60.6 90.8
 44 16.6 6.3 9.5#



#4
 2-Fluorophenol
 Concen: 0.100 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion: 112 Resp: 641
 Ion Ratio Lower Upper
 112 100
 64 70.4 53.1 79.7
 63 40.9 31.8 47.8

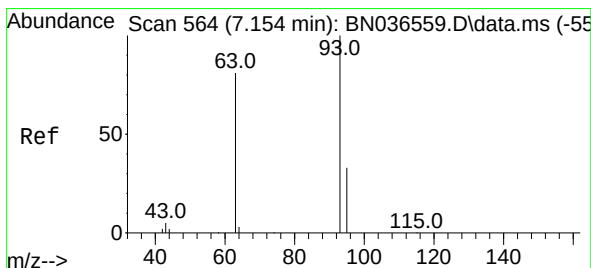
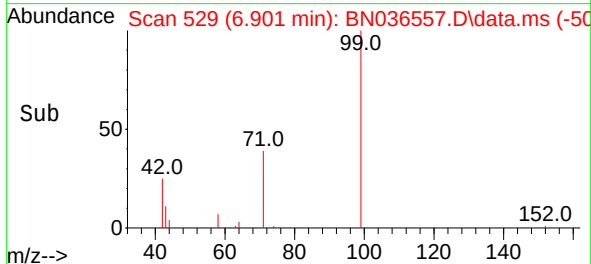
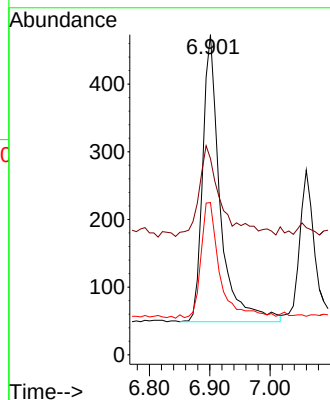
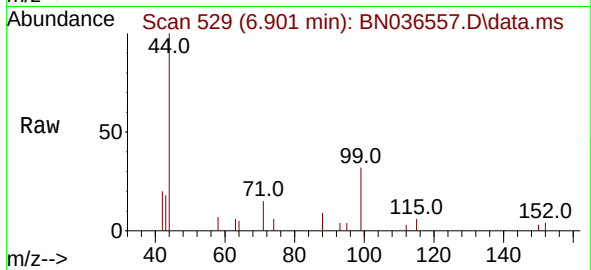




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

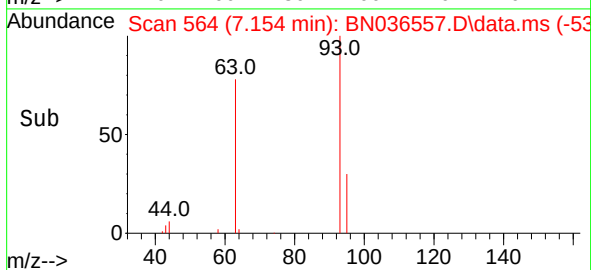
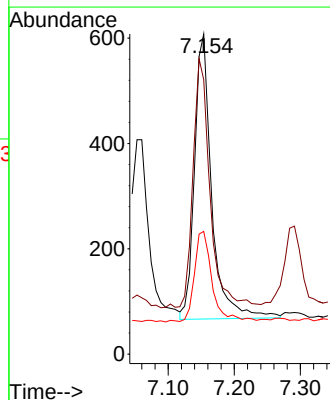
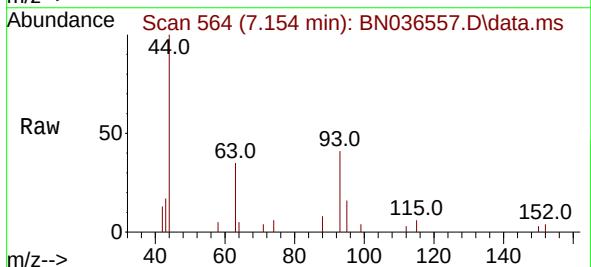
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

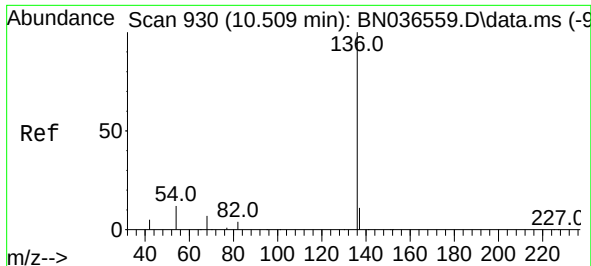
Tgt Ion: 99 Resp: 856
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7#
71 42.8 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4

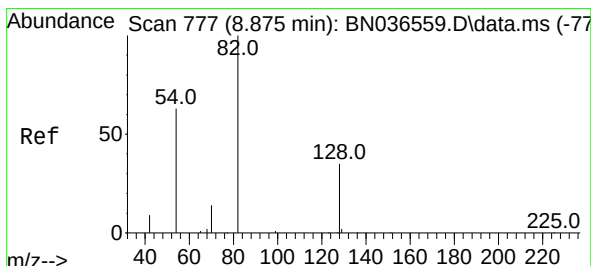
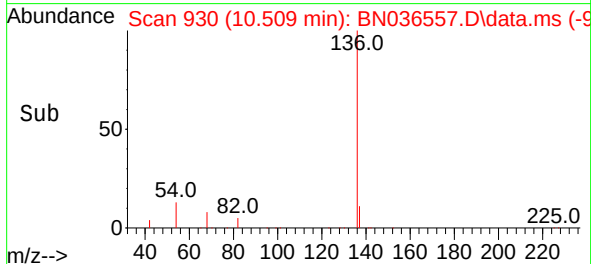
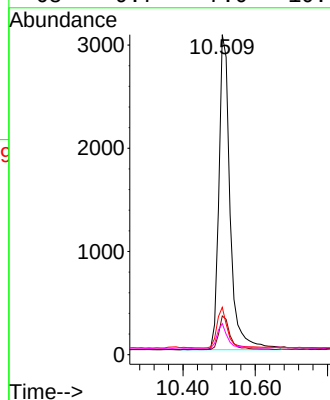
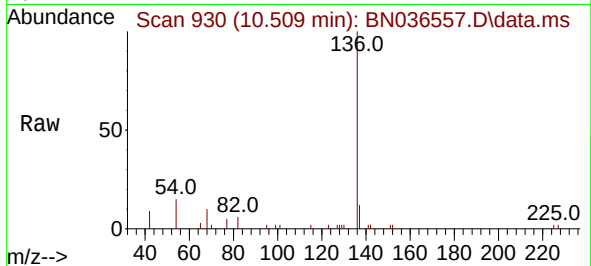




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

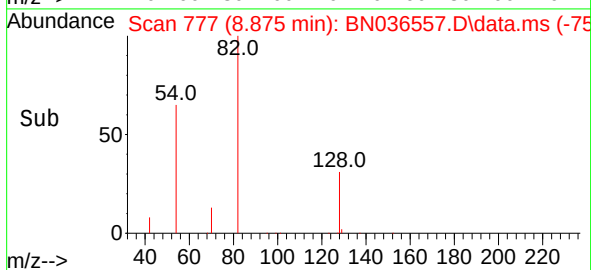
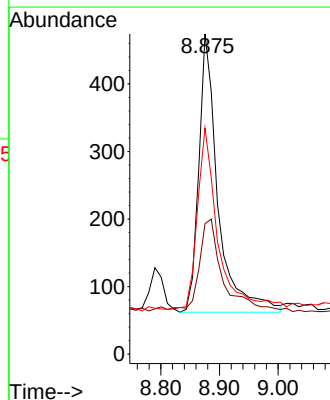
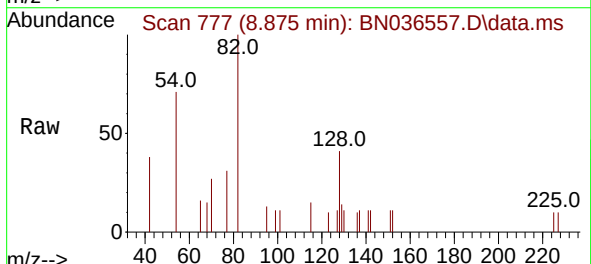
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

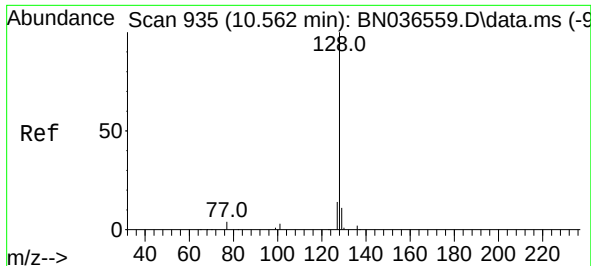
Tgt Ion:	136	Resp:	6575
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	82	Resp:	940
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4

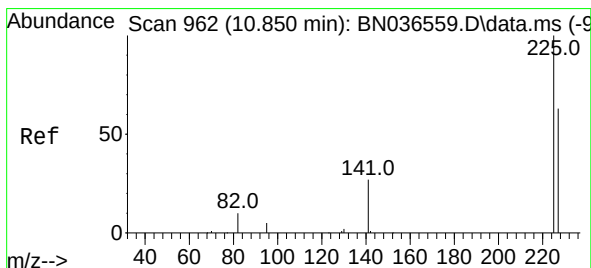
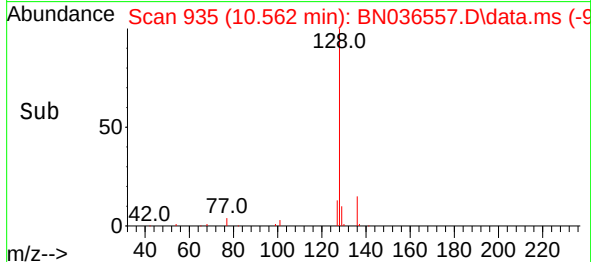
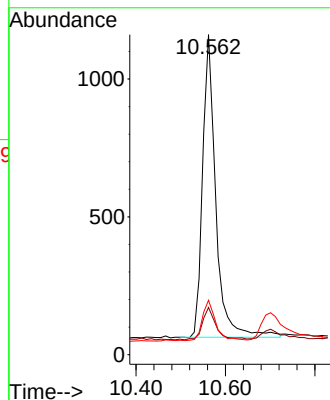
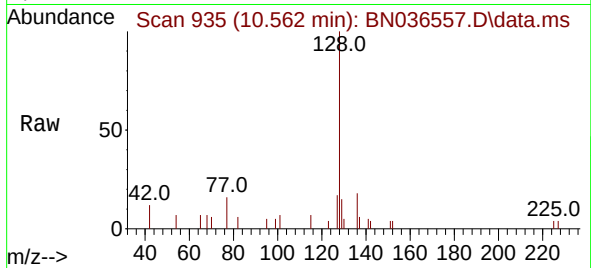




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

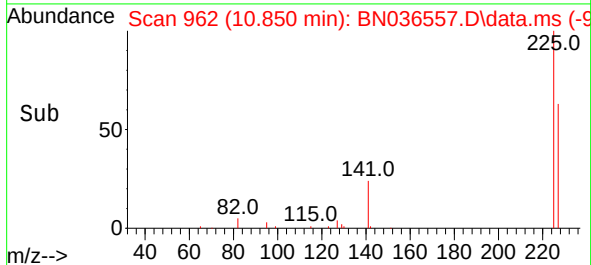
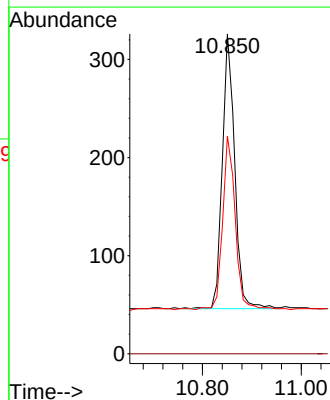
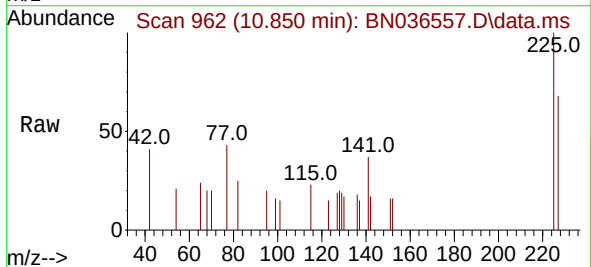
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

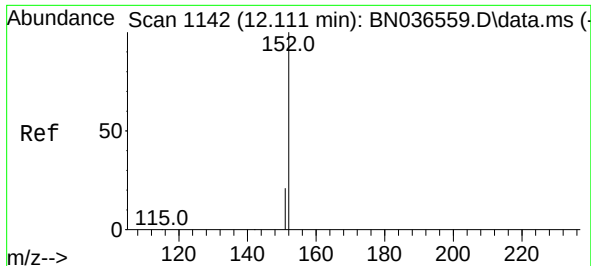
Tgt Ion:128 Resp: 2254
Ion Ratio Lower Upper
128 100
129 14.7 9.8 14.6#
127 17.0 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

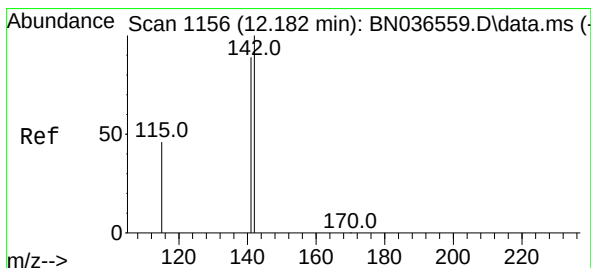
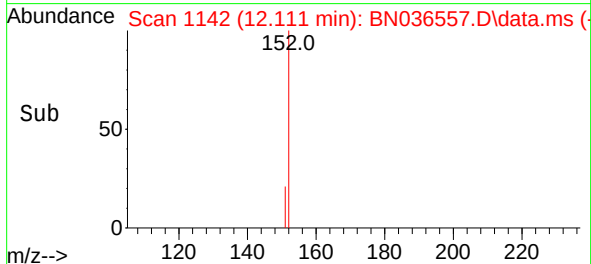
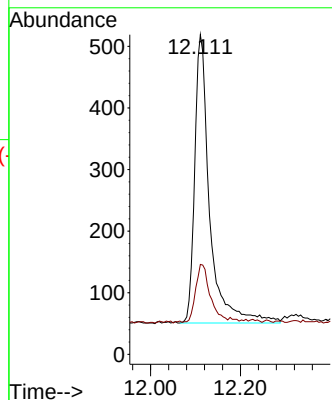
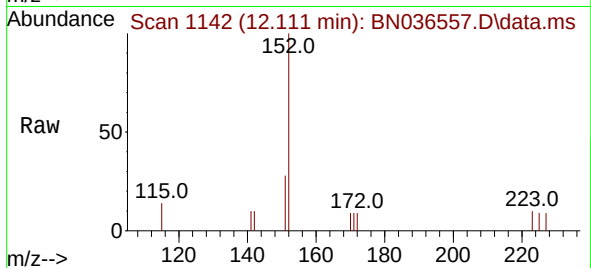




#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

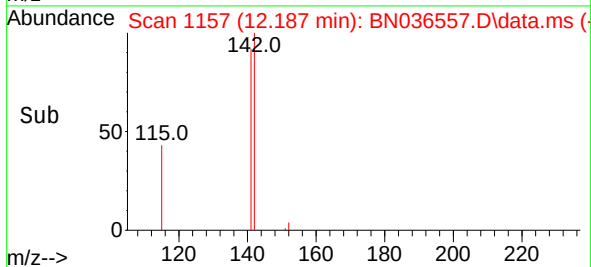
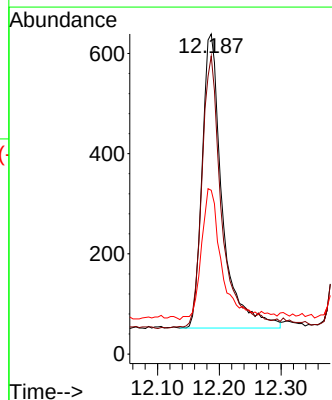
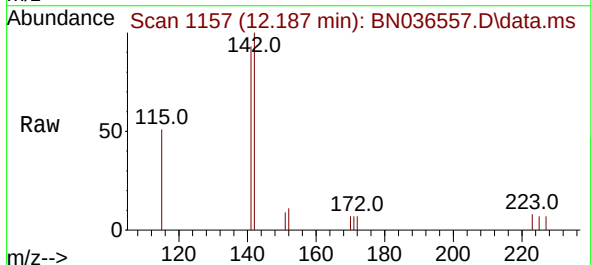
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

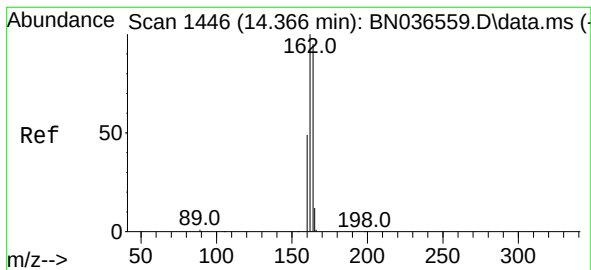
Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

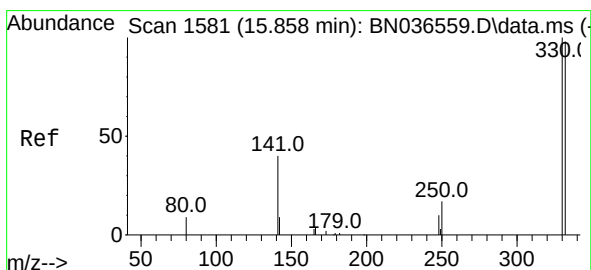
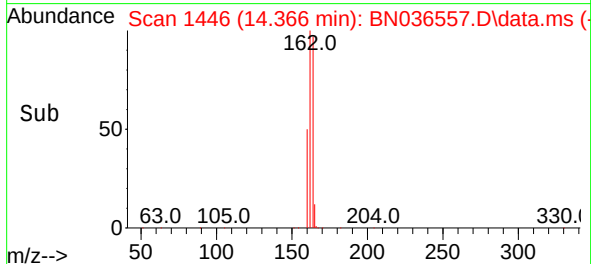
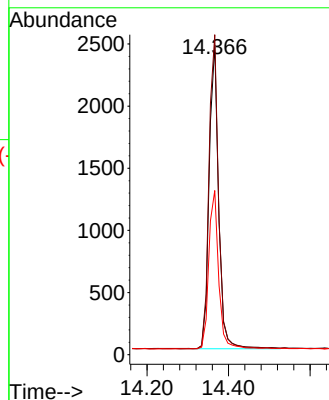
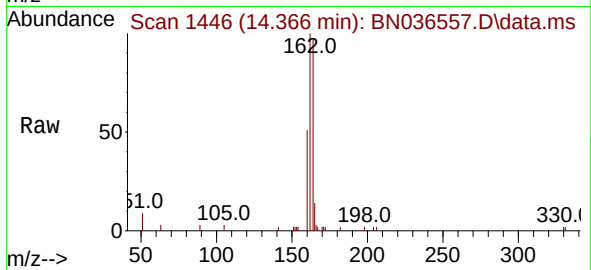
Tgt Ion:164 Resp: 3958

Ion Ratio Lower Upper

164 100

162 103.3 84.2 126.2

160 53.0 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.100 ng

RT: 15.858 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

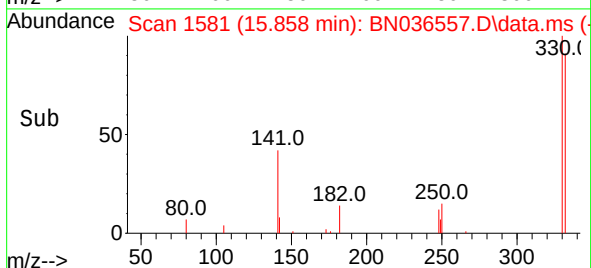
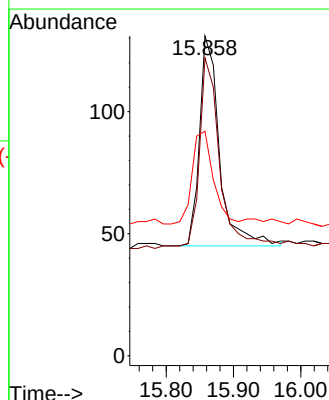
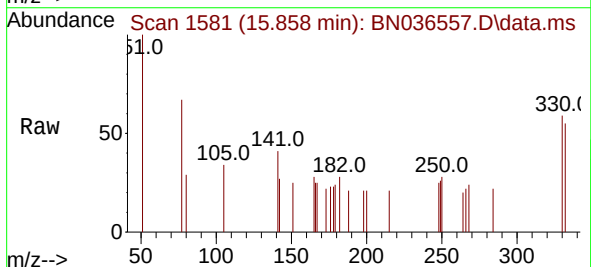
Tgt Ion:330 Resp: 179

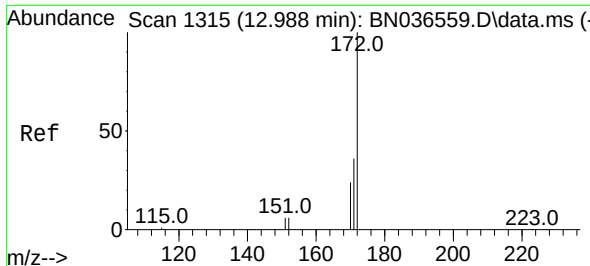
Ion Ratio Lower Upper

330 100

332 96.1 75.2 112.8

141 46.4 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.095 ng

RT: 12.993 min Scan# 1416

Delta R.T. 0.005 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

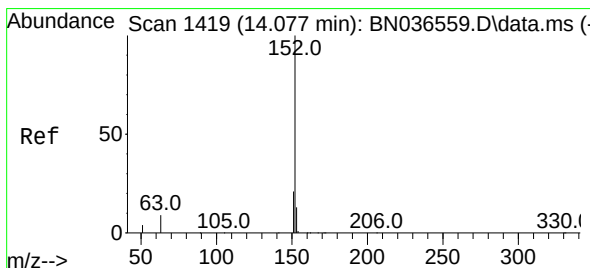
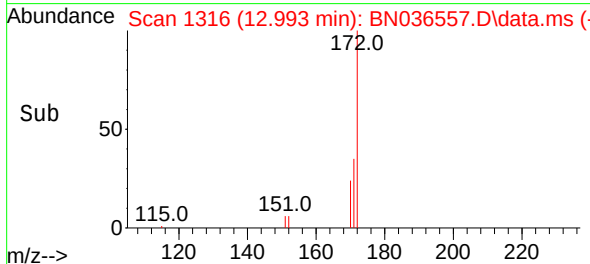
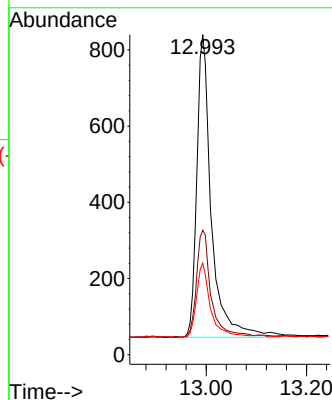
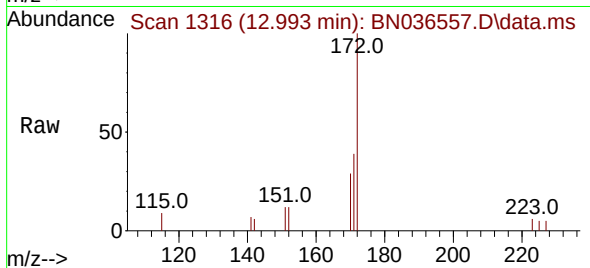
Tgt Ion:172 Resp: 2185

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

170 28.6 20.2 30.4



#16

Acenaphthylene

Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

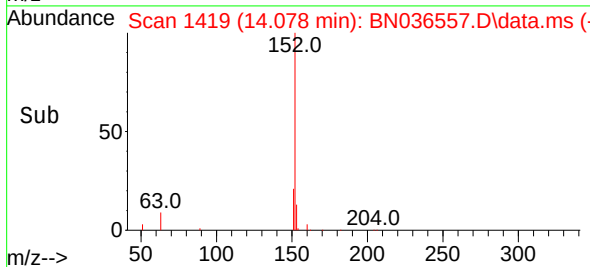
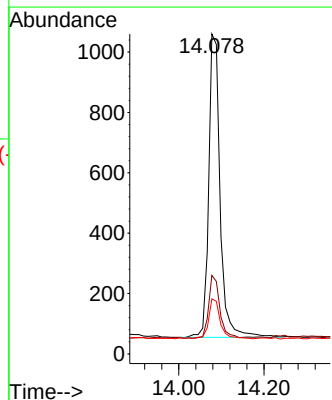
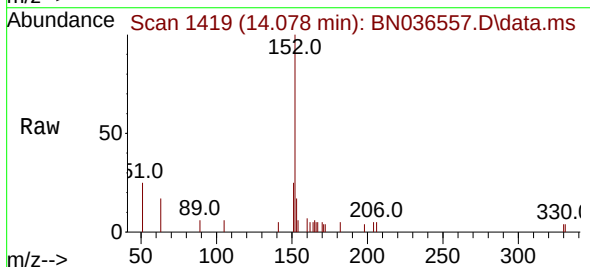
Tgt Ion:152 Resp: 1862

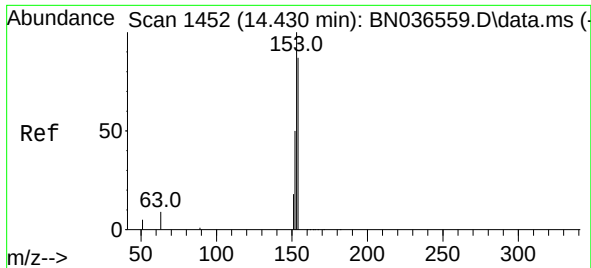
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

153 14.1 10.6 15.8

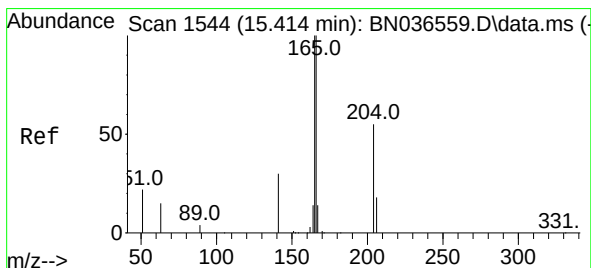
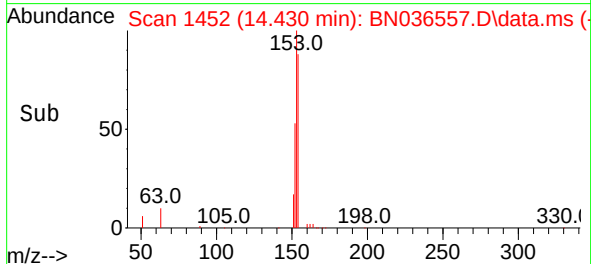
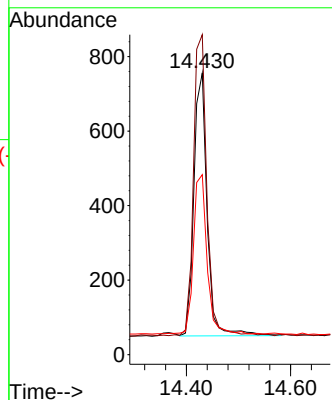
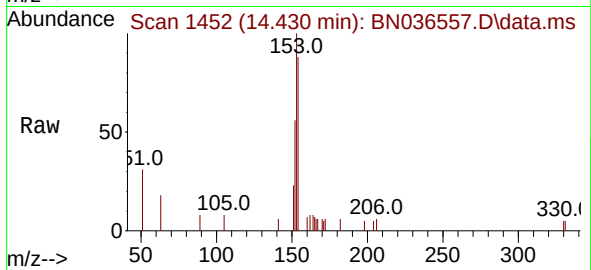




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

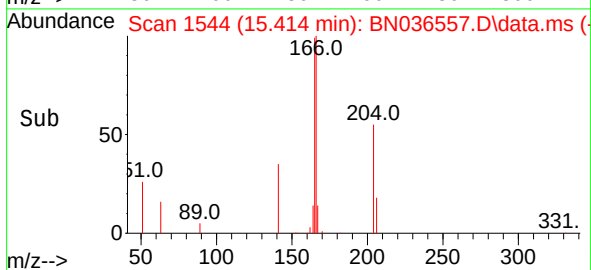
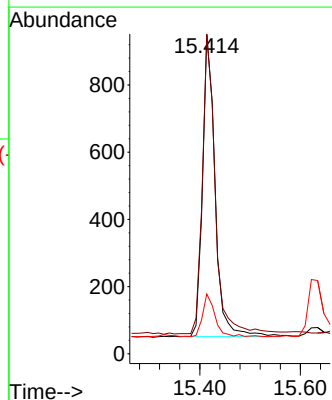
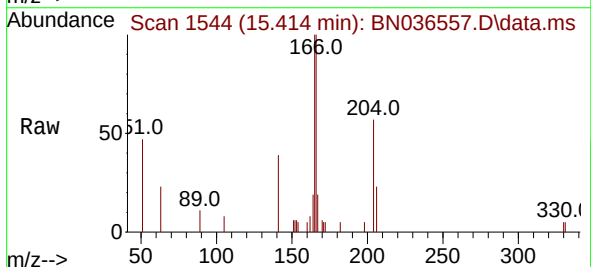
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

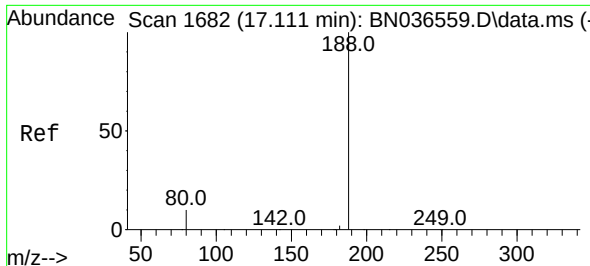
Tgt Ion:154 Resp: 1244
Ion Ratio Lower Upper
154 100
153 115.9 94.1 141.1
152 62.5 49.8 74.6



#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 13.9 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

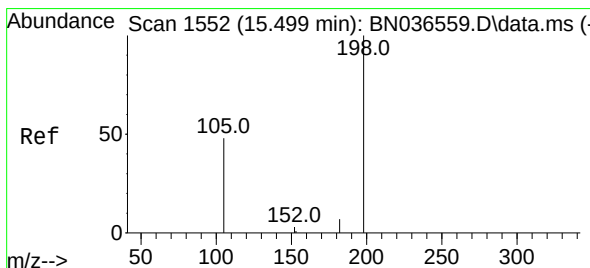
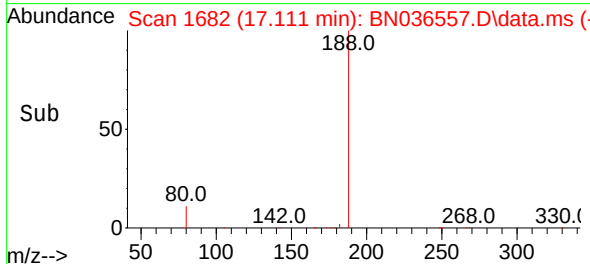
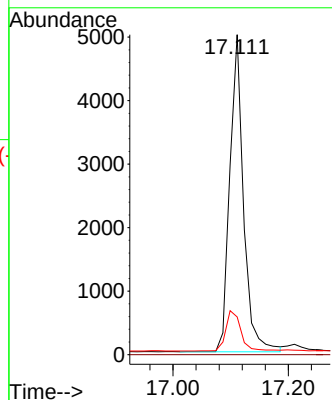
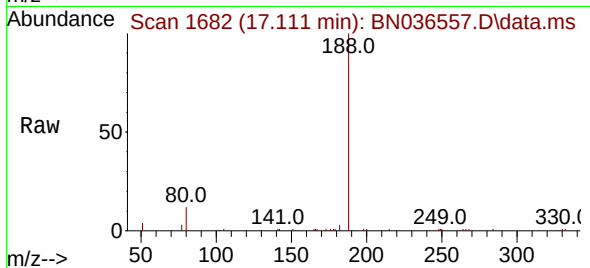
Tgt Ion:188 Resp: 8269

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.204 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

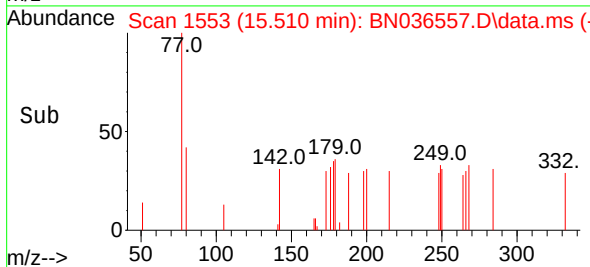
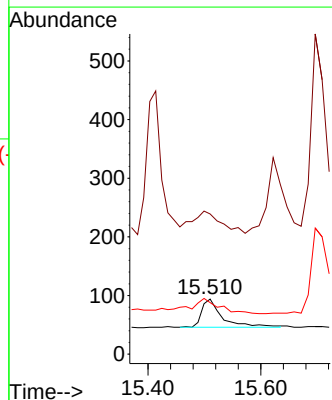
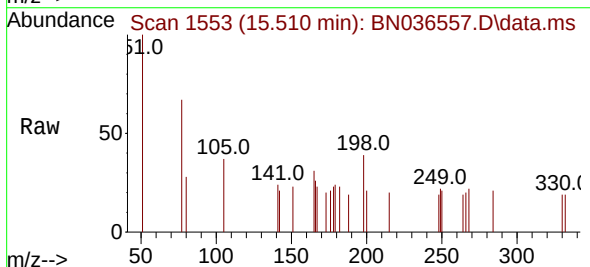
Tgt Ion:198 Resp: 122

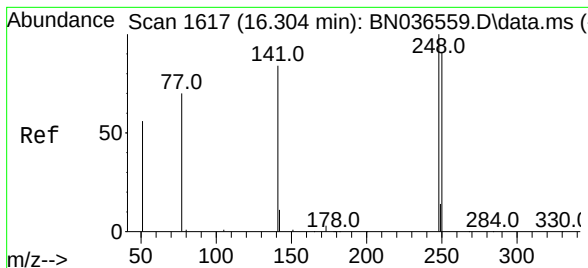
Ion Ratio Lower Upper

198 100

51 254.3 107.9 161.9#

105 93.6 56.2 84.2#

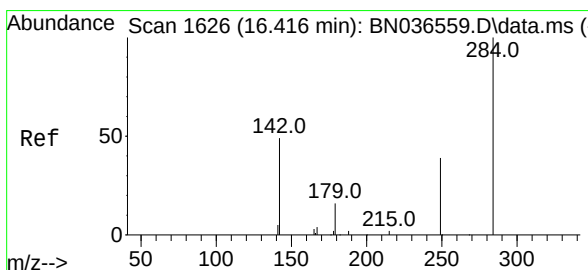
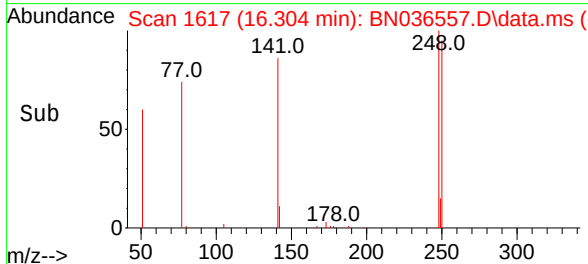
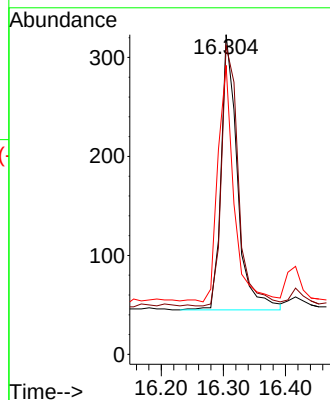
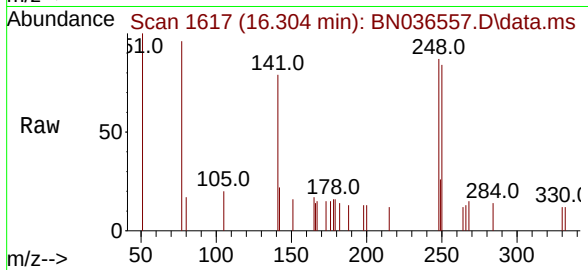




#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

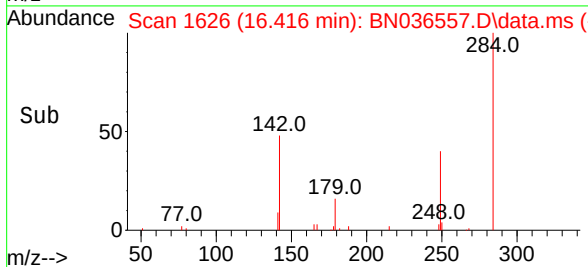
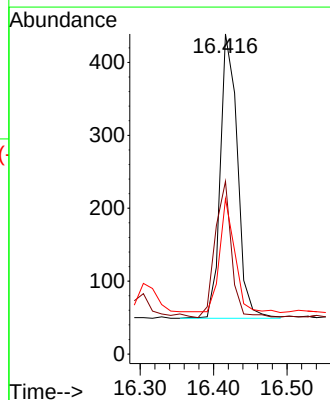
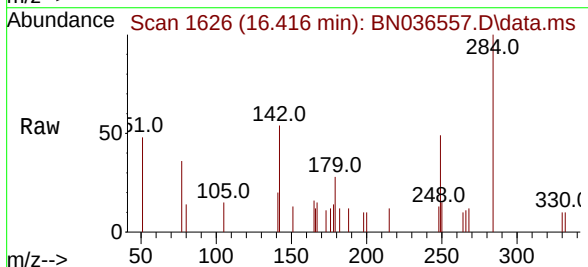
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

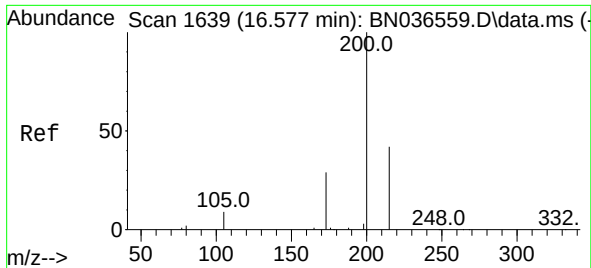
Tgt Ion:	248	Resp:	502
Ion Ratio	Lower	Upper	
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	284	Resp:	632
Ion Ratio	Lower	Upper	
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

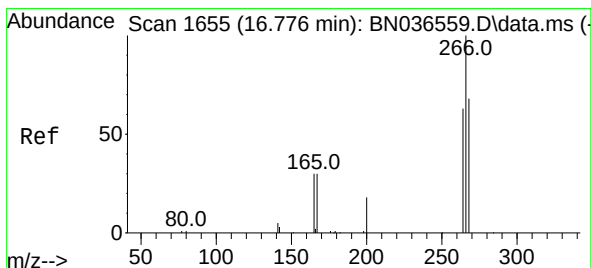
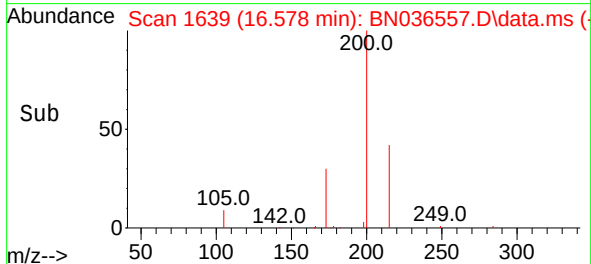
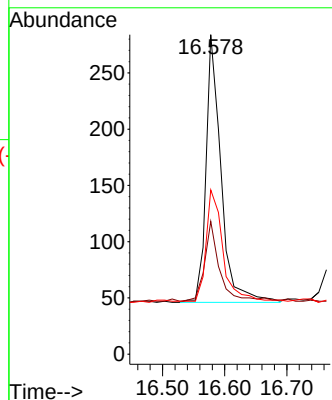
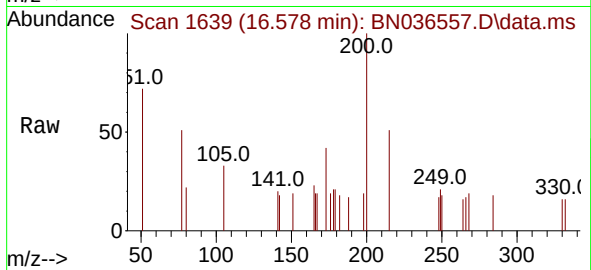




#23
 Atrazine
 Concen: 0.096 ng
 RT: 16.578 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

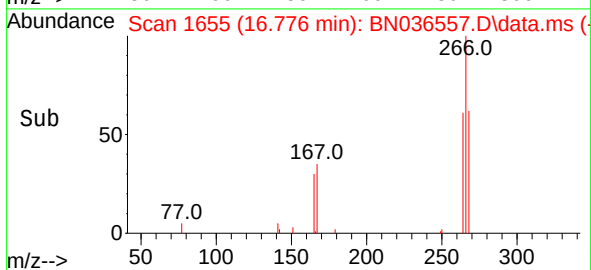
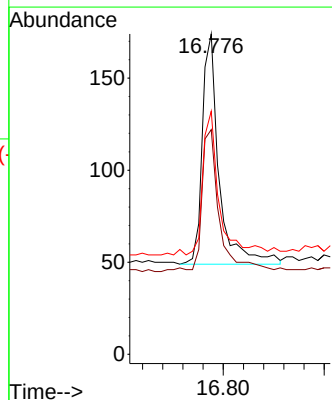
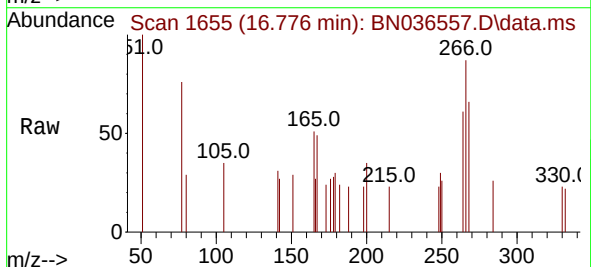
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

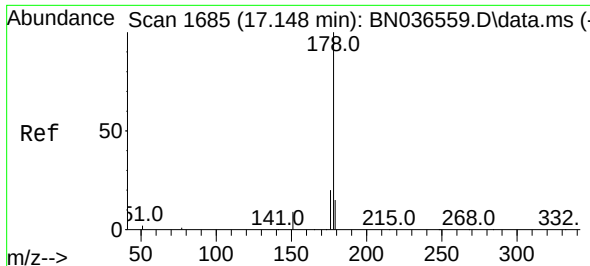
Tgt Ion:200 Resp: 400
 Ion Ratio Lower Upper
 200 100
 173 41.5 27.3 40.9#
 215 51.4 36.8 55.2



#24
 Pentachlorophenol
 Concen: 0.102 ng
 RT: 16.776 min Scan# 1655
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 290
 Ion Ratio Lower Upper
 266 100
 264 64.8 49.6 74.4
 268 62.8 50.9 76.3





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

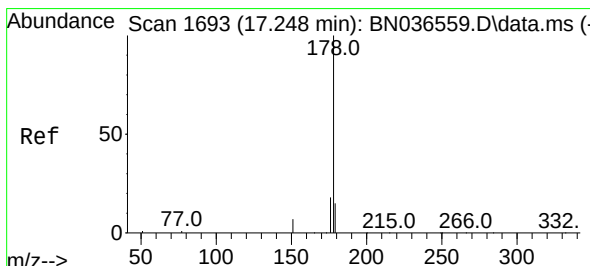
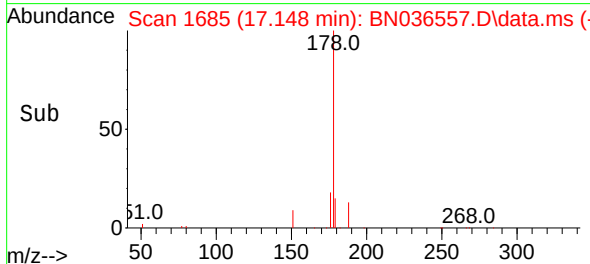
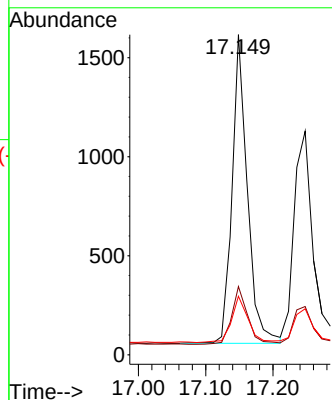
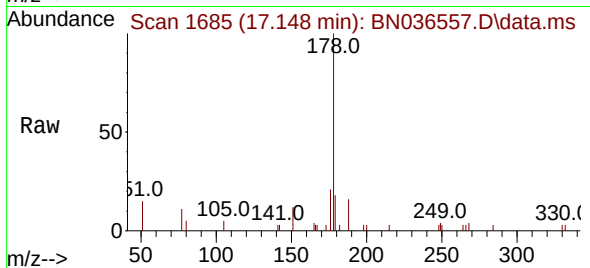
Tgt Ion:178 Resp: 2459

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

179 16.1 12.2 18.4



#26

Anthracene

Concen: 0.095 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

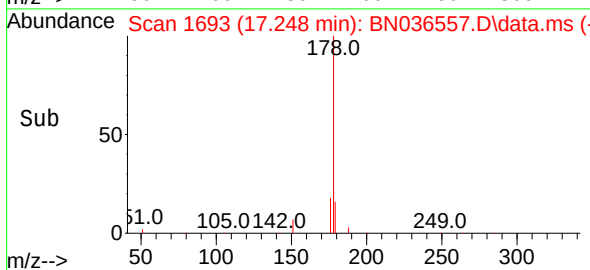
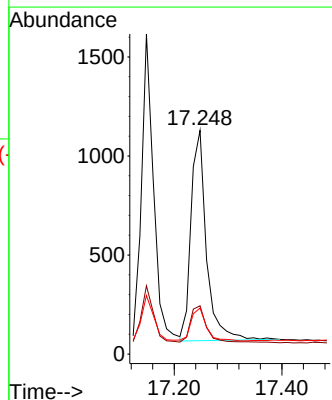
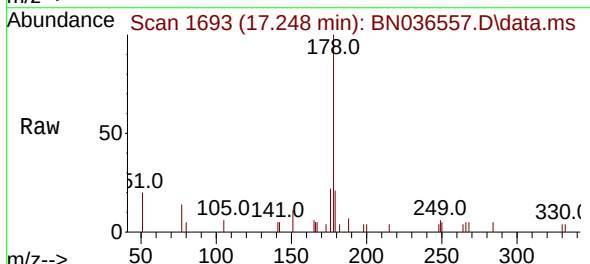
Tgt Ion:178 Resp: 2121

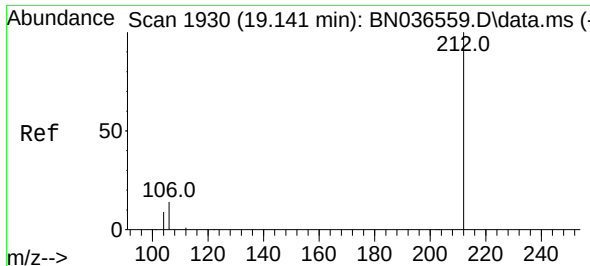
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.101 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

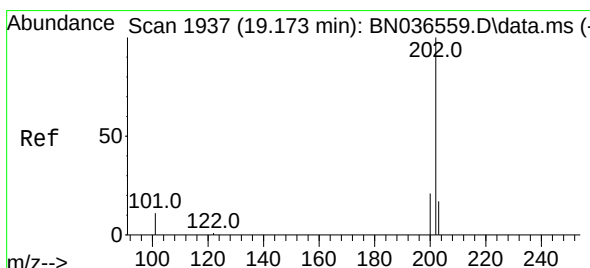
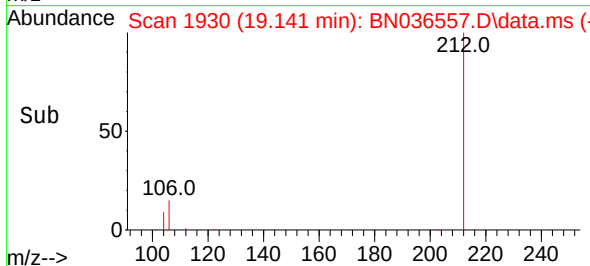
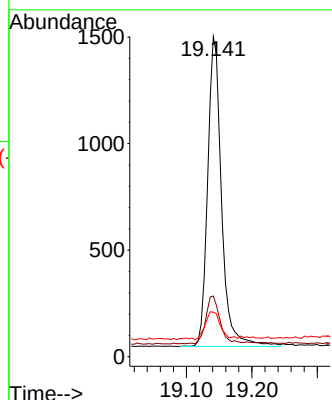
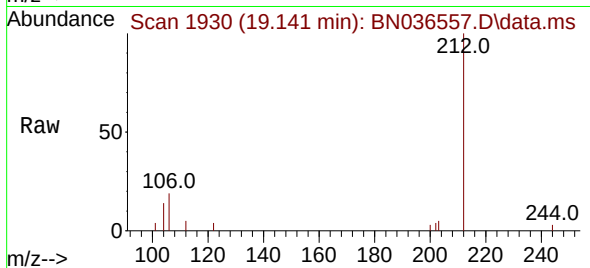
Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9



#28

Fluoranthene

Concen: 0.099 ng

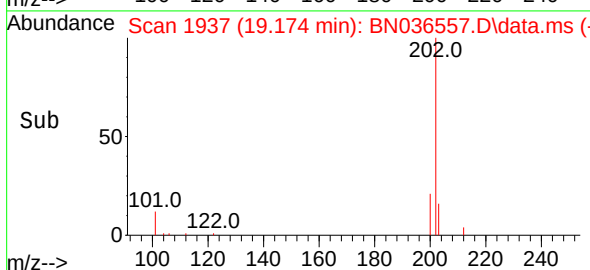
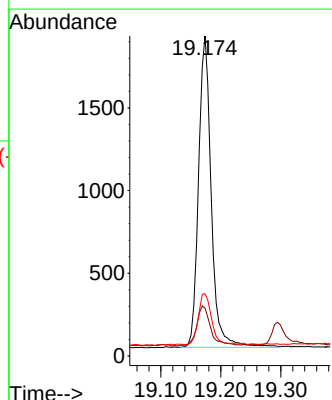
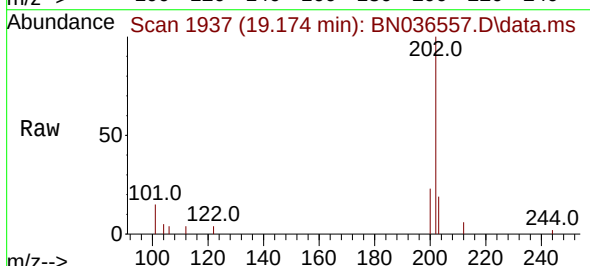
RT: 19.174 min Scan# 1937

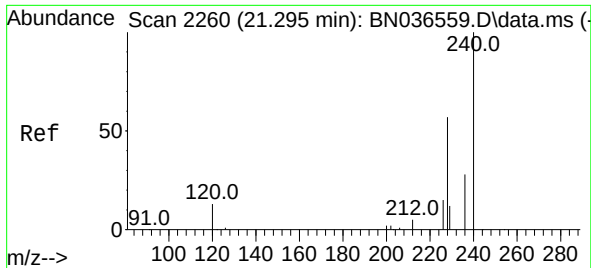
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	202	Resp:	2772
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

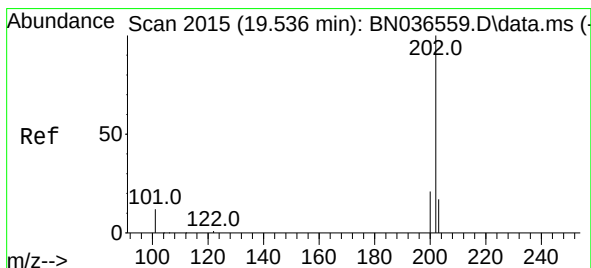
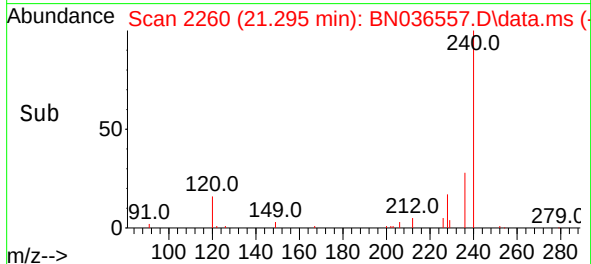
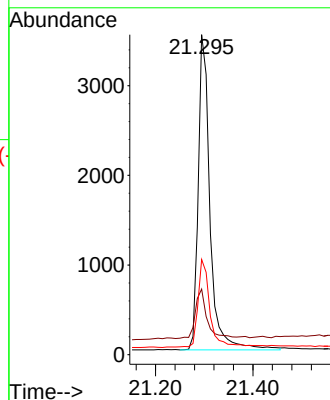
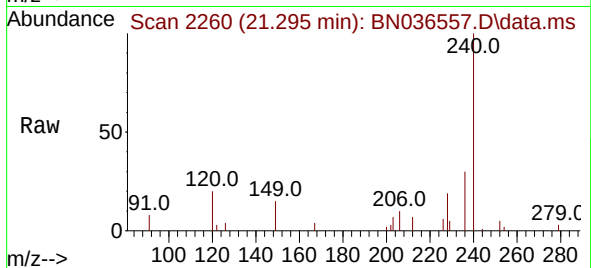
Tgt Ion:240 Resp: 5886

Ion Ratio Lower Upper

240 100

120 20.5 14.6 22.0

236 29.8 24.1 36.1



#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

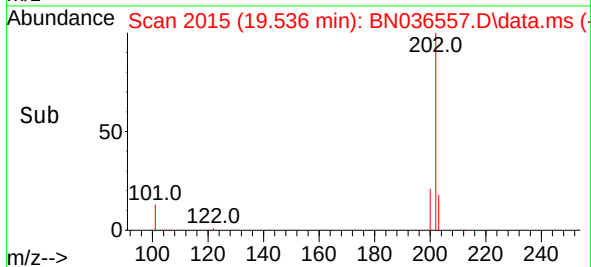
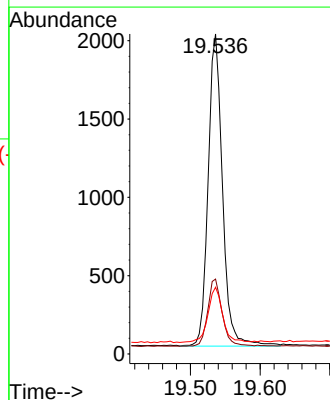
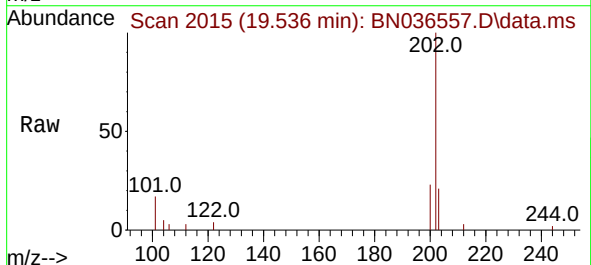
Tgt Ion:202 Resp: 2862

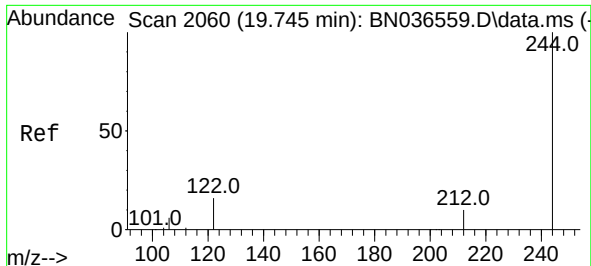
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

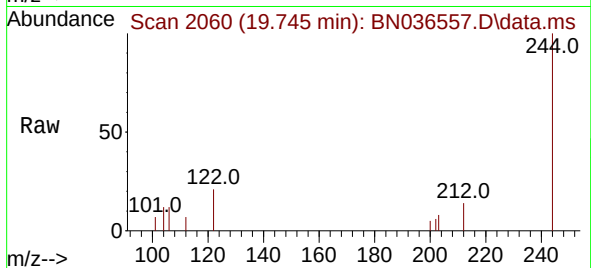
203 17.9 14.1 21.1



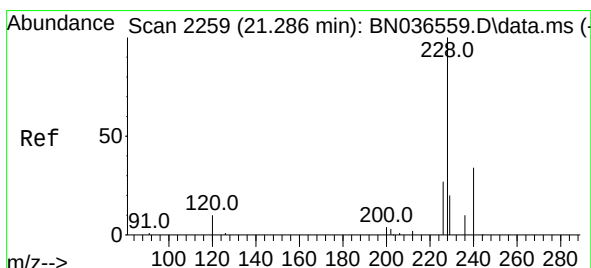
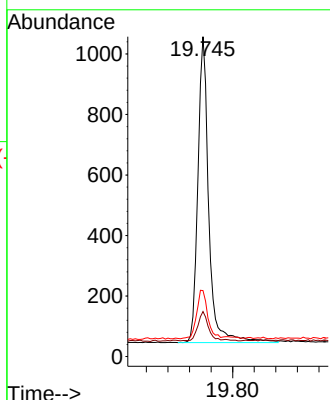


#31
 Terphenyl-d14
 Concen: 0.100 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

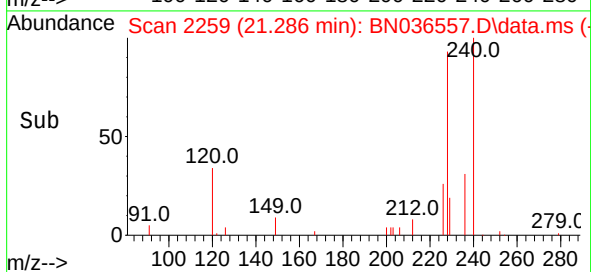
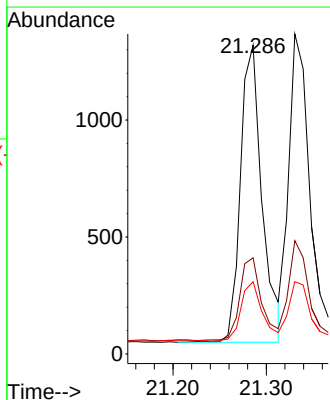
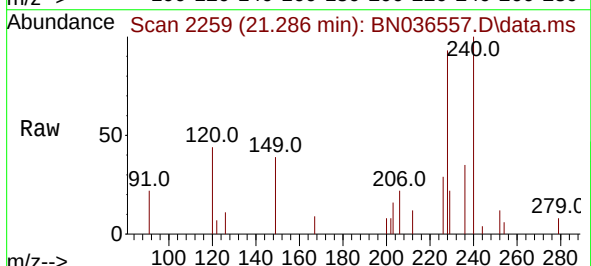


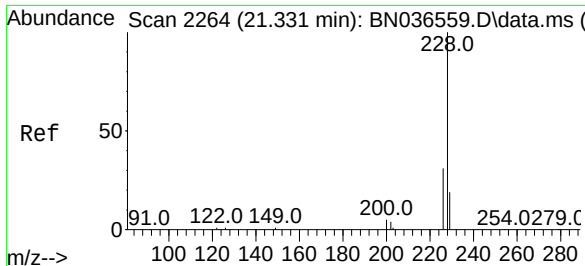
Tgt Ion:	244	Resp:	1416
Ion Ratio	Lower	Upper	
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9



#32
 Benzo(a)anthracene
 Concen: 0.100 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2044
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0





#33

Chrysene

Concen: 0.098 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

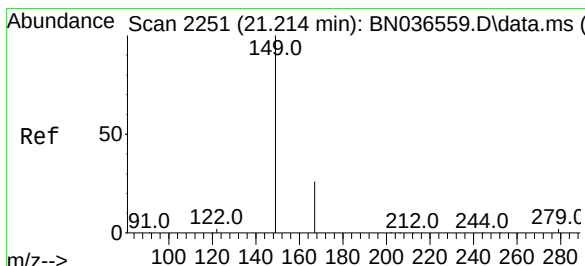
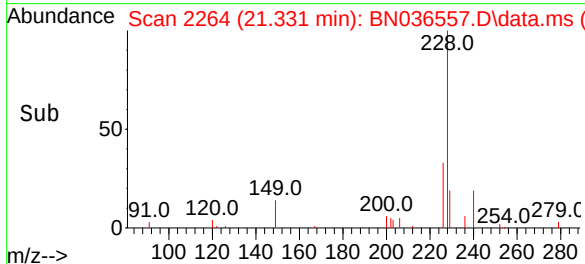
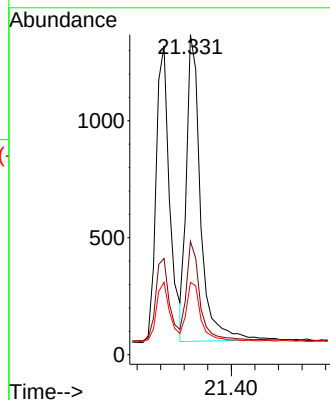
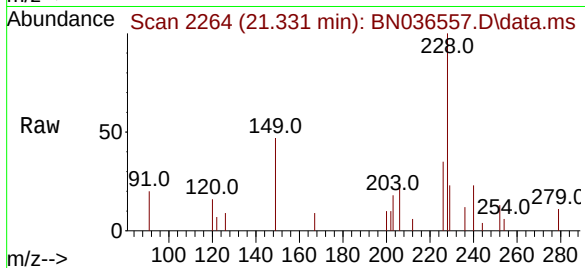
Tgt Ion:228 Resp: 2187

Ion Ratio Lower Upper

228 100

226 35.4 25.3 37.9

229 22.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

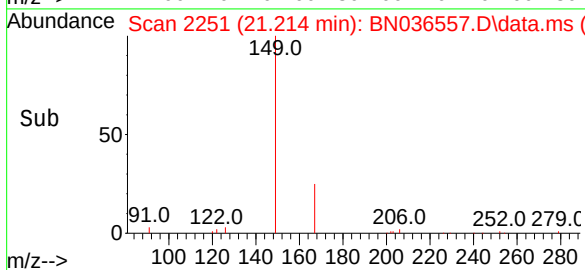
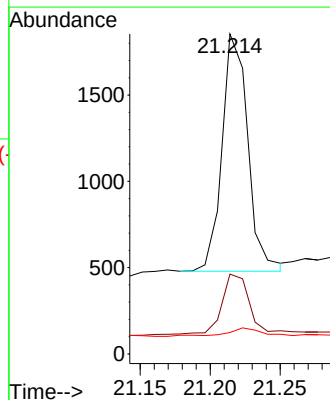
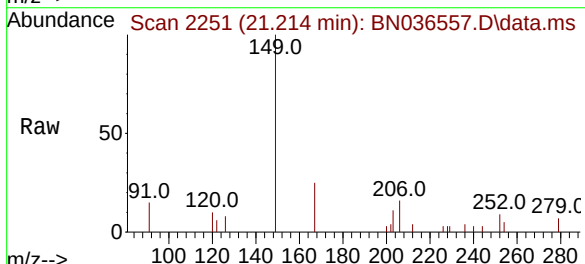
Tgt Ion:149 Resp: 1760

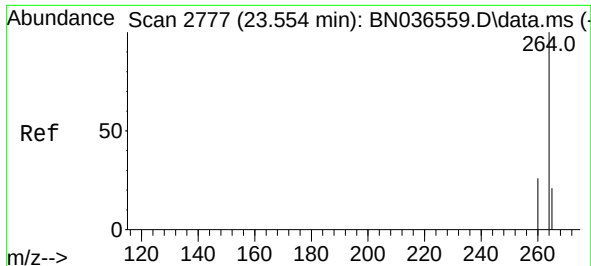
Ion Ratio Lower Upper

149 100

167 27.9 20.7 31.1

279 4.9 3.6 5.4

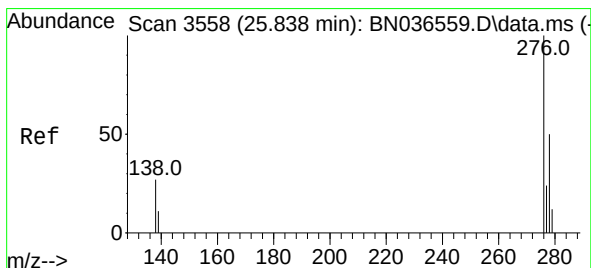
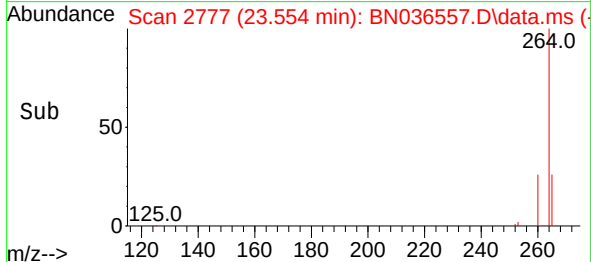
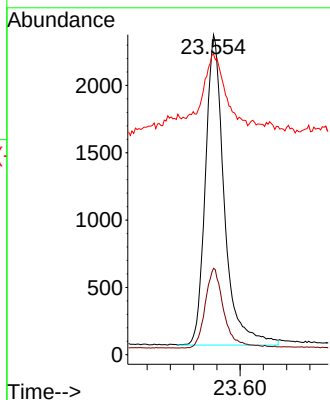
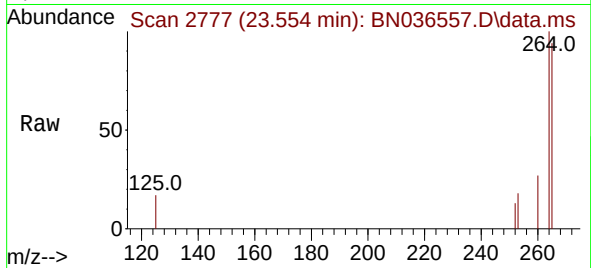




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

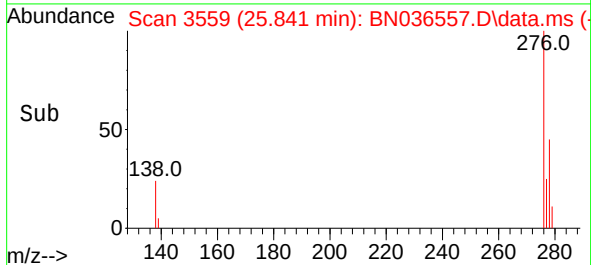
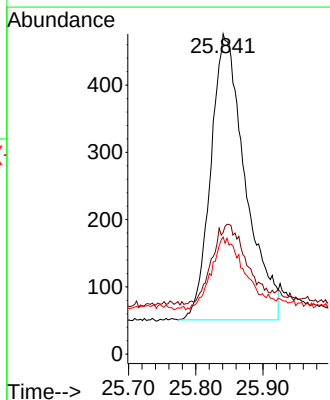
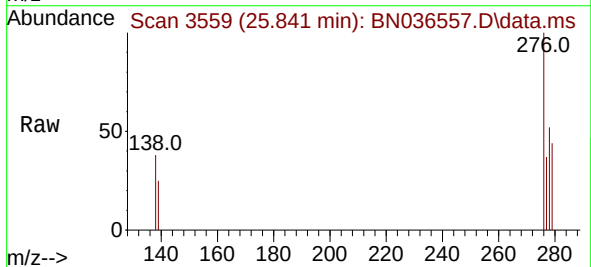
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

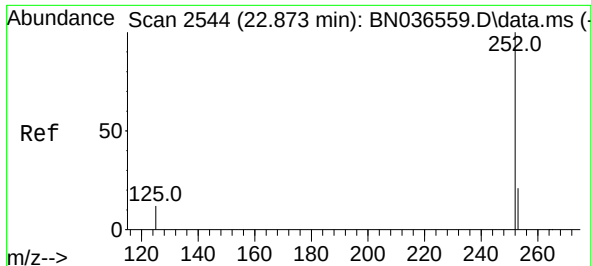
Tgt Ion:264 Resp: 5207
Ion Ratio Lower Upper
264 100
260 27.0 22.6 33.8
265 93.9 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1510
Ion Ratio Lower Upper
276 100
138 27.6 23.4 35.2
277 24.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.090 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

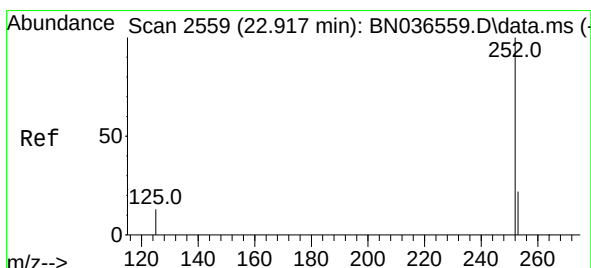
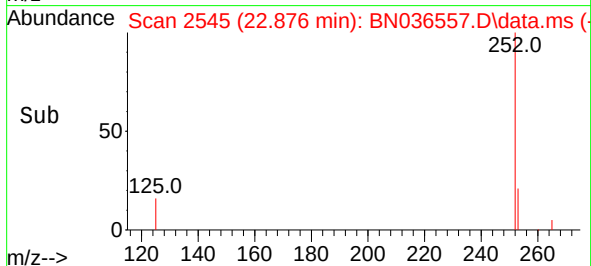
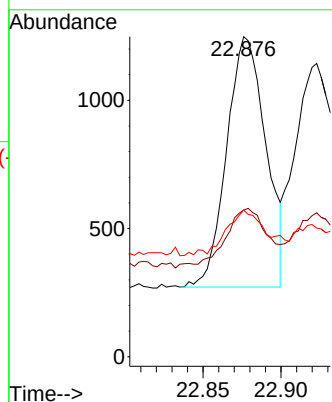
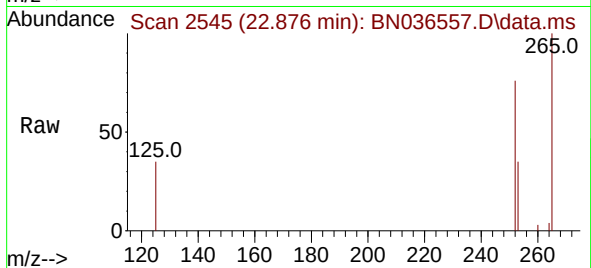
Tgt Ion:252 Resp: 1707

Ion Ratio Lower Upper

252 100

253 45.8 23.9 35.9#

125 45.8 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.098 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

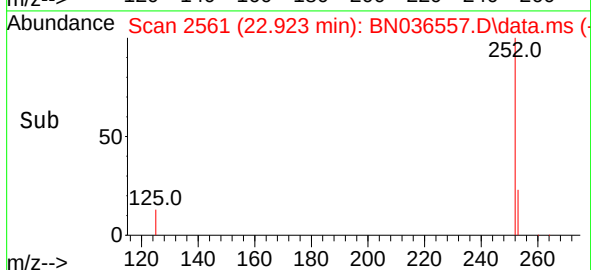
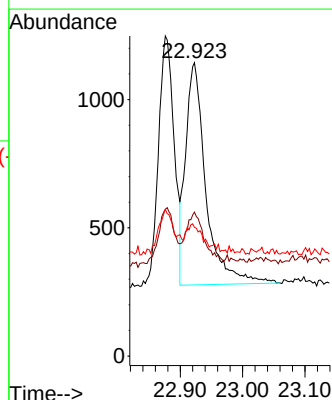
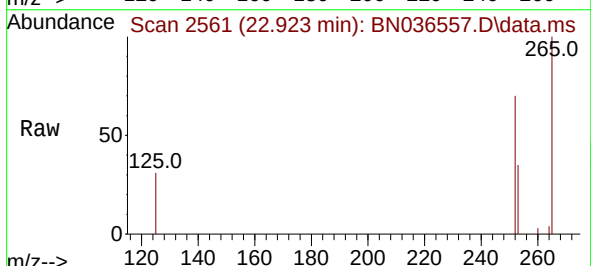
Tgt Ion:252 Resp: 1958

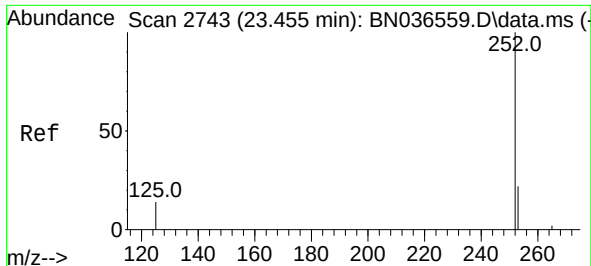
Ion Ratio Lower Upper

252 100

253 49.0 24.6 36.8#

125 43.9 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036557.D

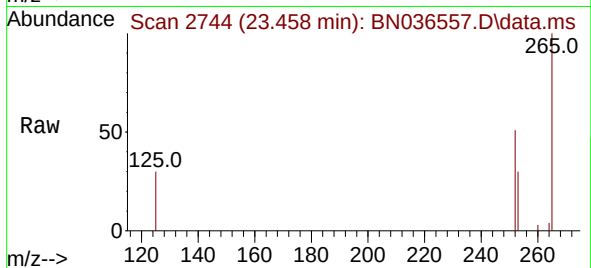
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



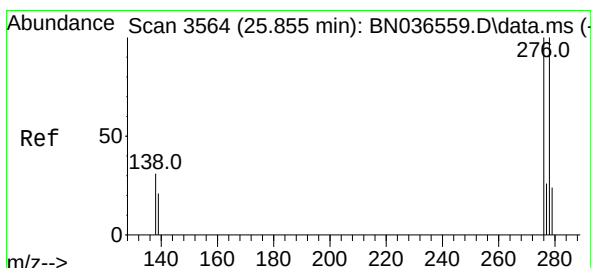
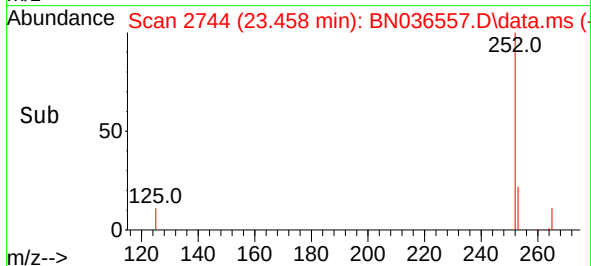
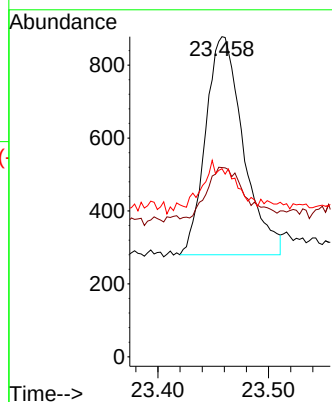
Tgt Ion:252 Resp: 1419

Ion Ratio Lower Upper

252 100

253 59.1 27.8 41.8#

125 58.8 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

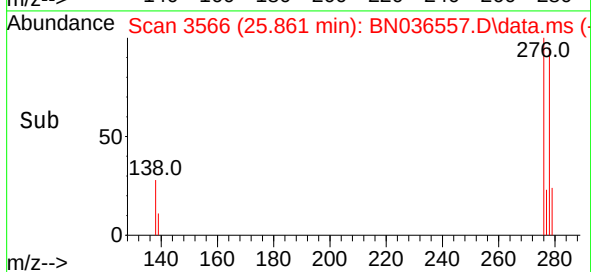
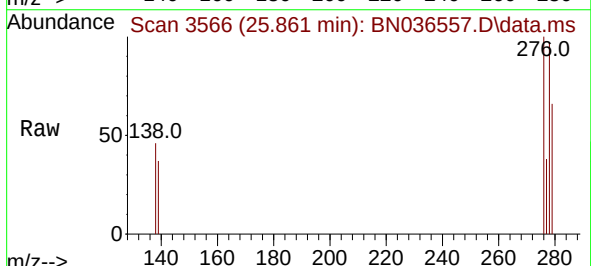
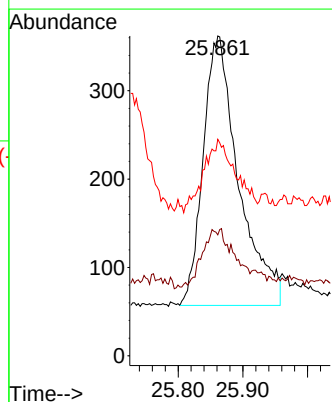
Tgt Ion:278 Resp: 1163

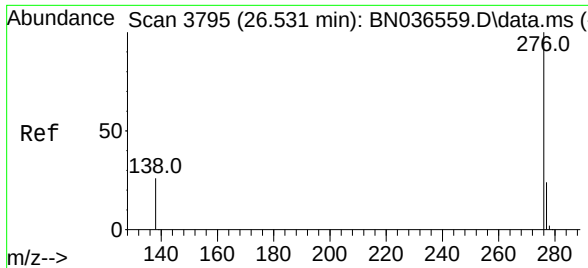
Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

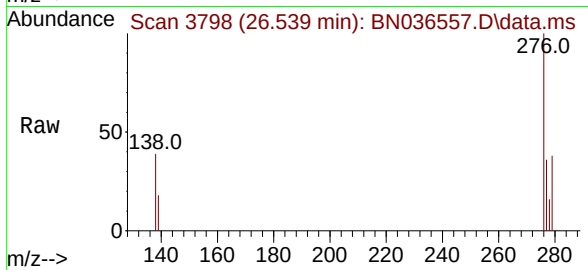
279 67.7 28.8 43.2#



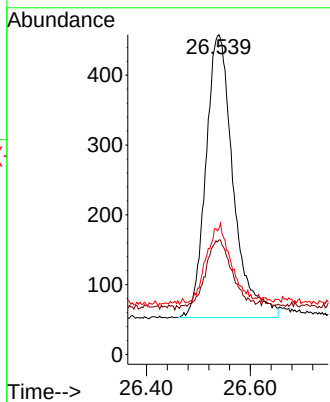
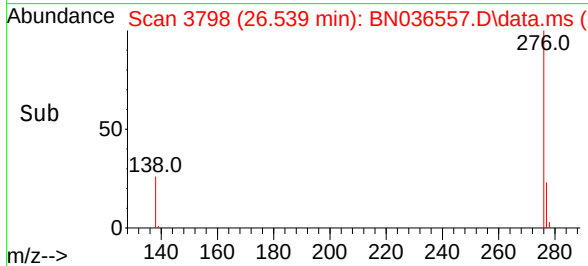


#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 31
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 1482
Ion Ratio Lower Upper
276 100
277 35.8 22.2 33.4#
138 39.3 24.1 36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

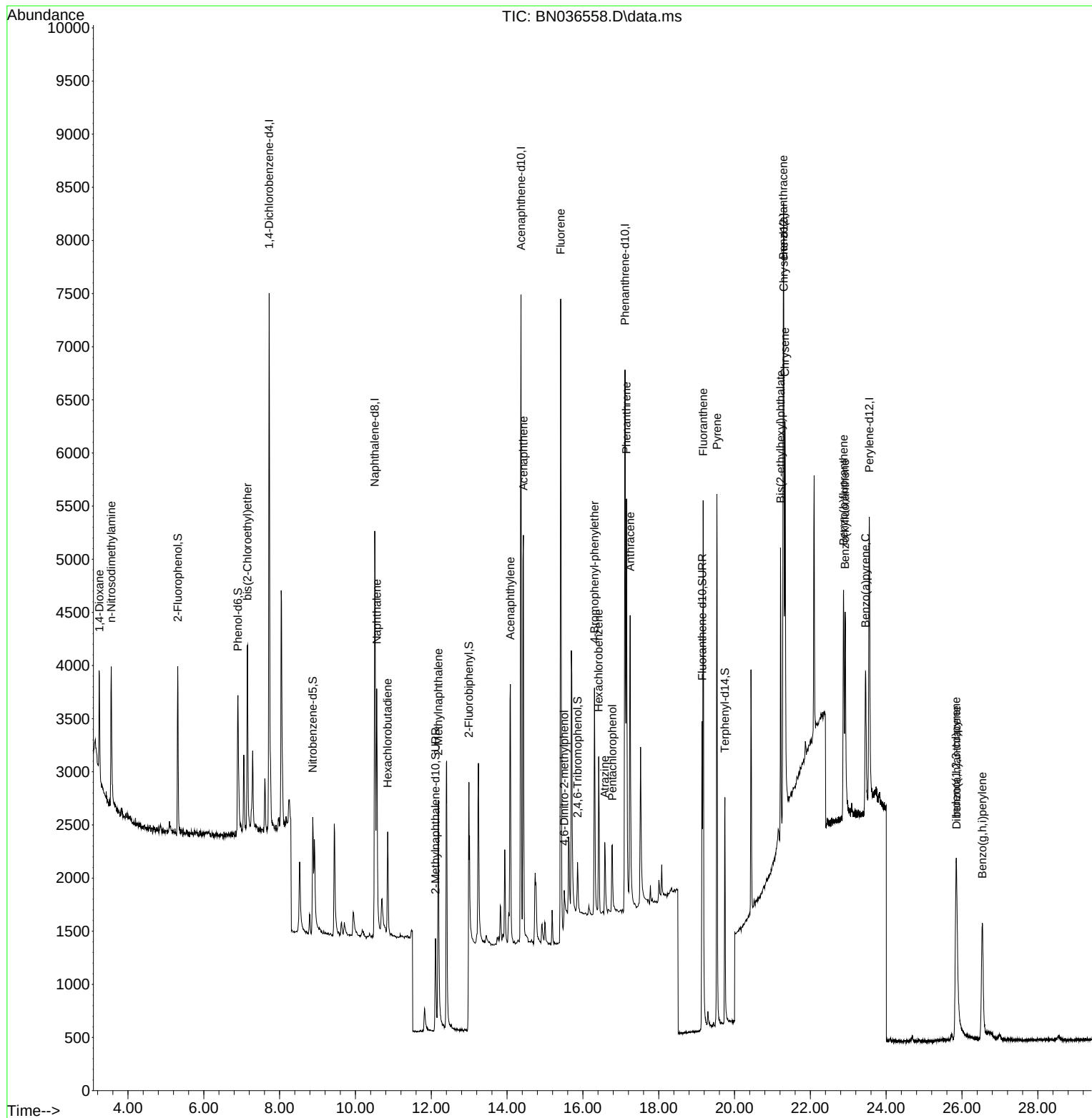
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	700	0.252	ng	91
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

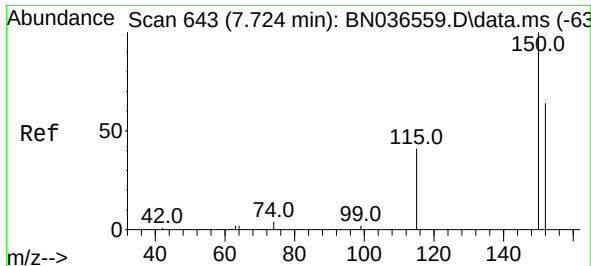
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

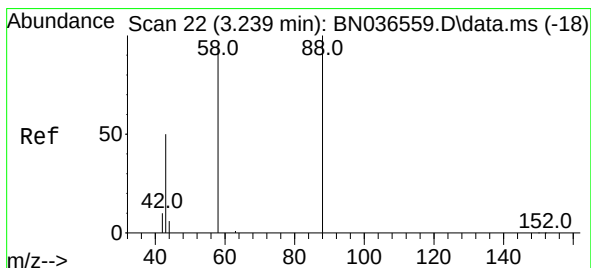
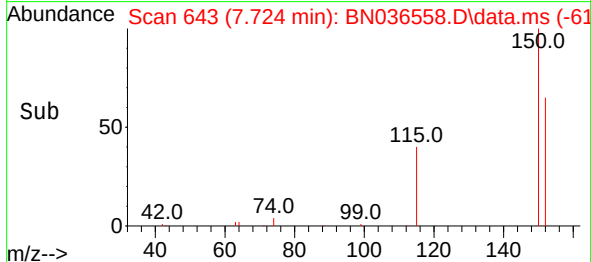
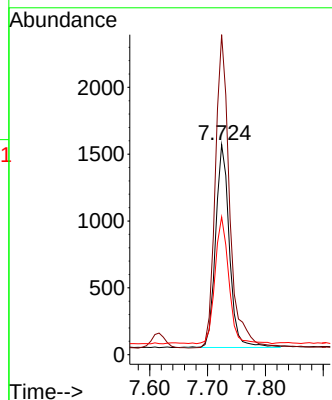
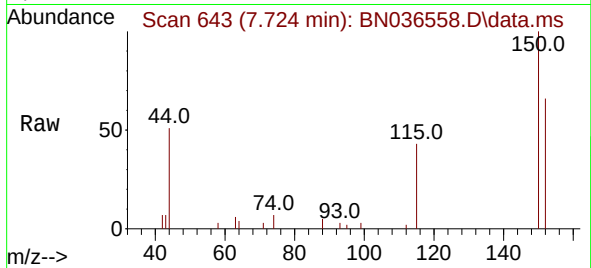




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

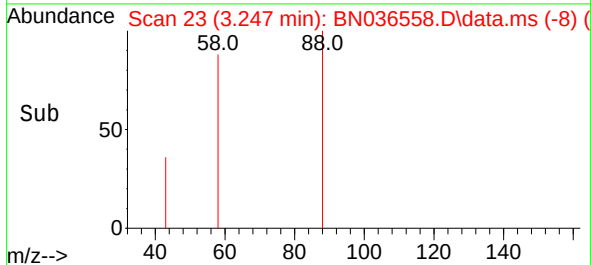
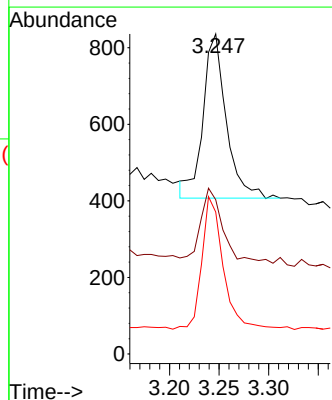
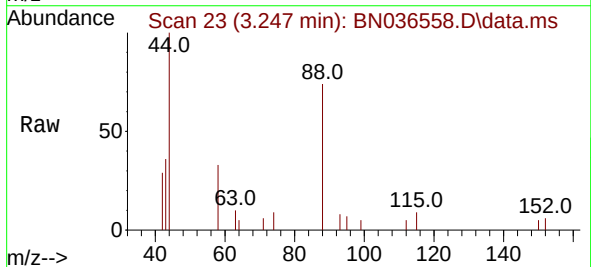
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

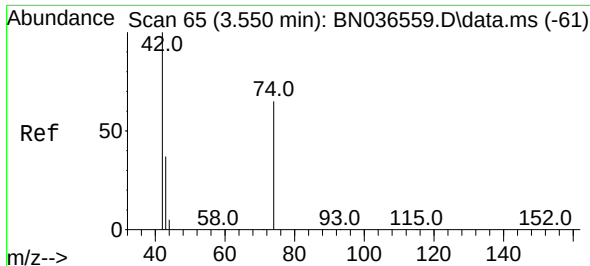
Tgt Ion:152 Resp: 2504
 Ion Ratio Lower Upper
 152 100
 150 152.3 123.7 185.5
 115 65.5 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.252 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700
 Ion Ratio Lower Upper
 88 100
 43 44.4 37.8 56.8
 58 73.7 67.4 101.2

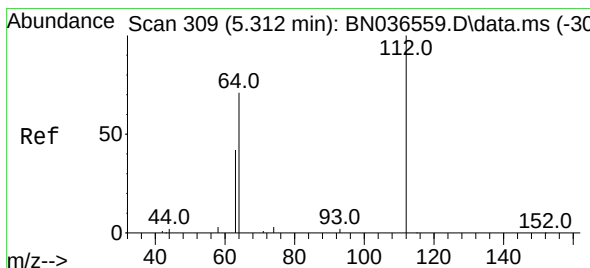
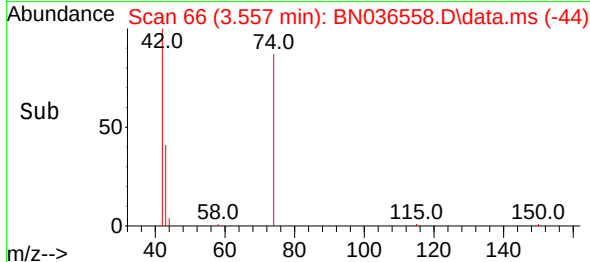
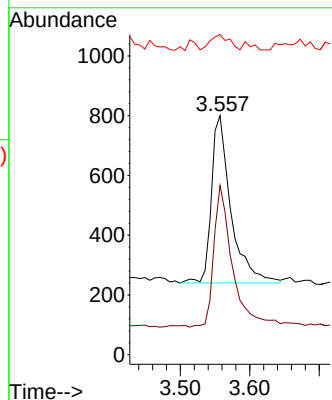
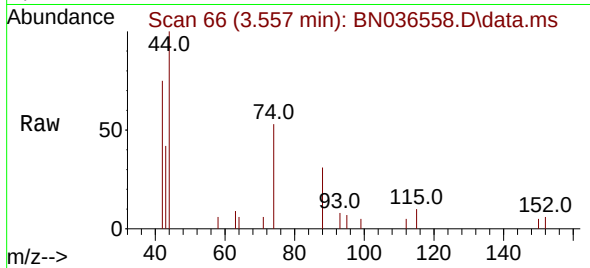




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

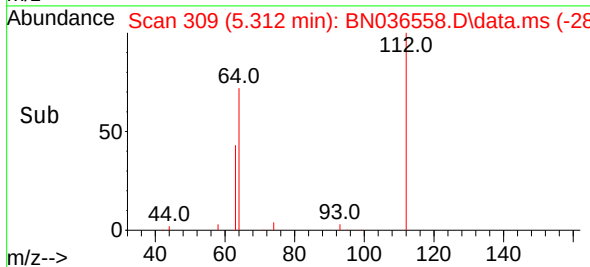
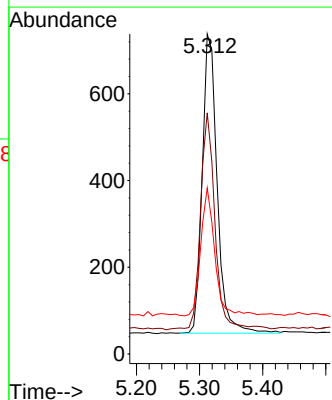
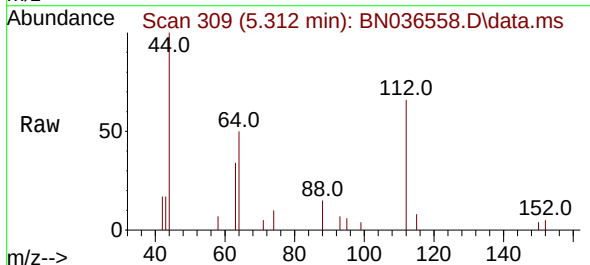
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

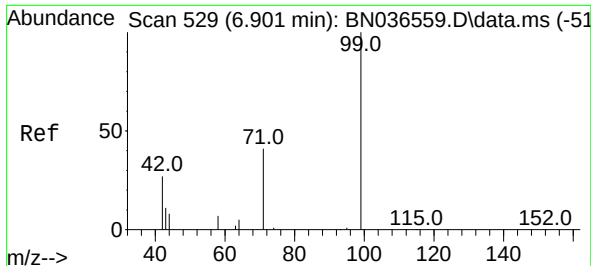
Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8

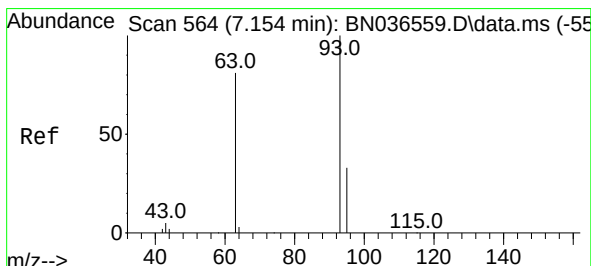
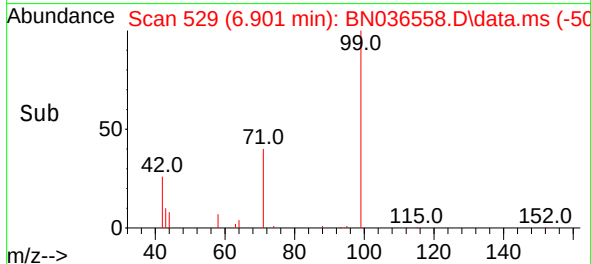
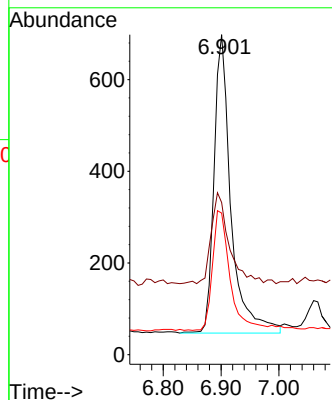
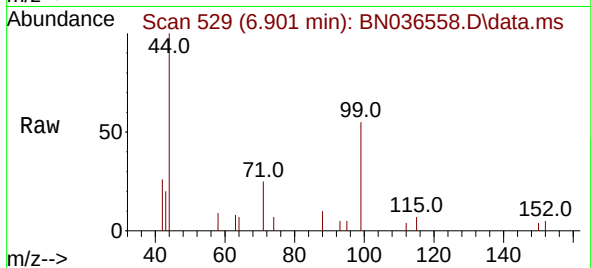




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

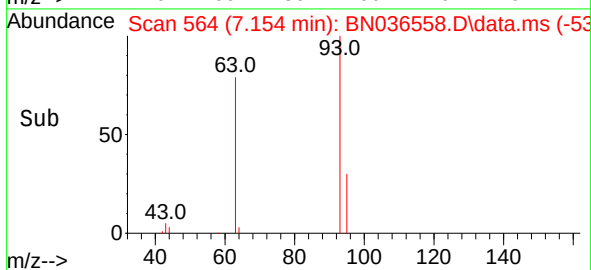
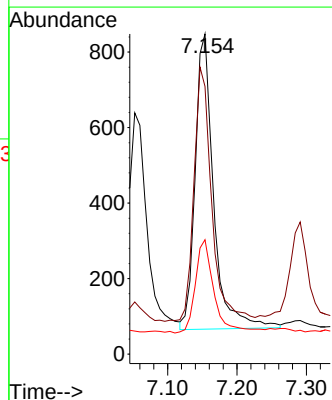
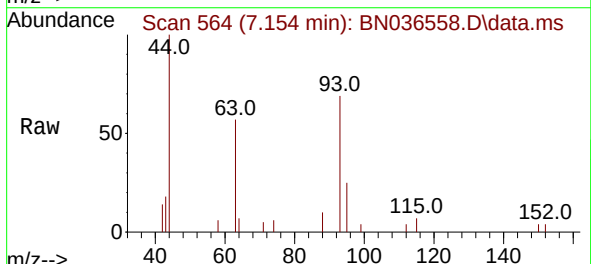
Instrument :
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ClientSampleId :
SSTDICC0.2

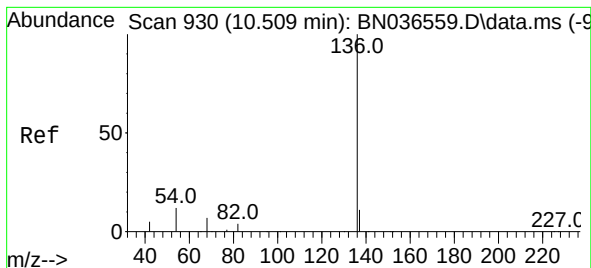
Tgt Ion: 99 Resp: 1323
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.509 min Scan# 930

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5844

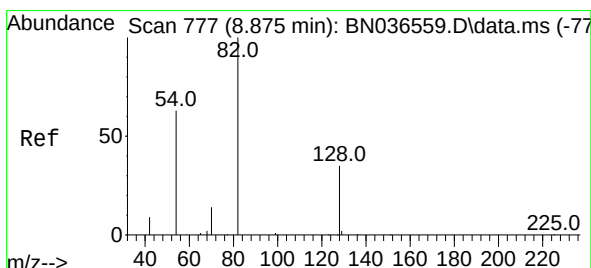
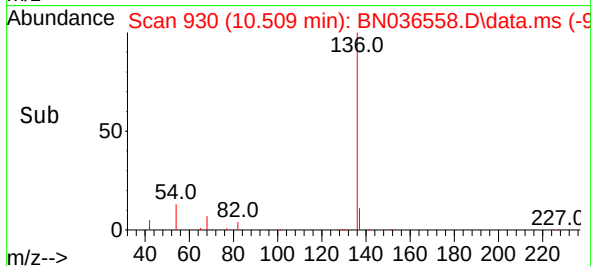
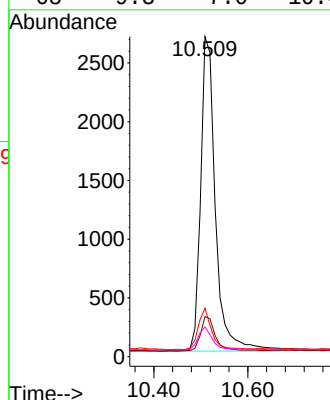
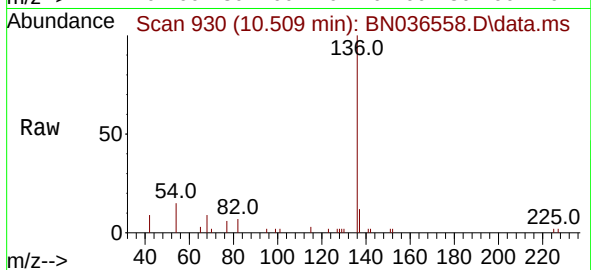
Ion Ratio Lower Upper

136 100

137 12.5 10.3 15.5

54 15.1 11.5 17.3

68 9.3 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.182 ng

RT: 8.875 min Scan# 777

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

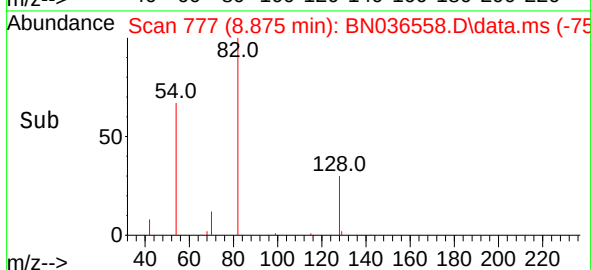
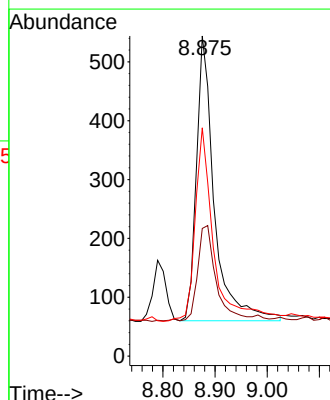
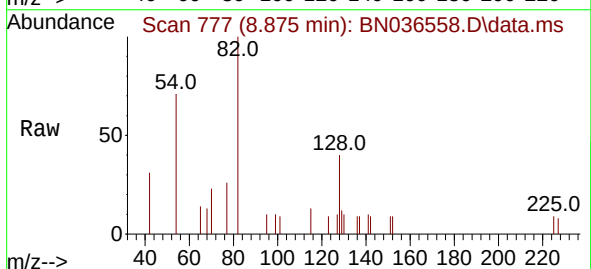
Tgt Ion: 82 Resp: 1156

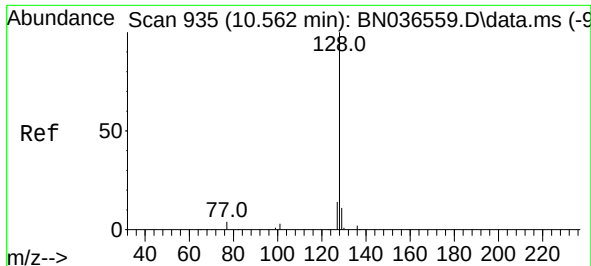
Ion Ratio Lower Upper

82 100

128 39.9 30.6 45.8

54 71.3 52.2 78.4

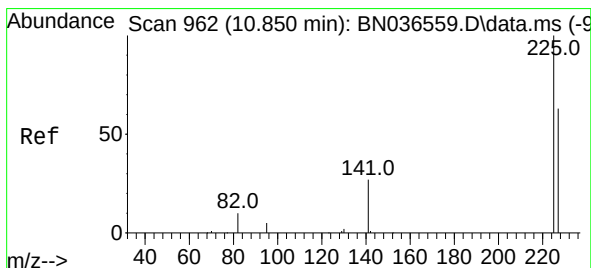
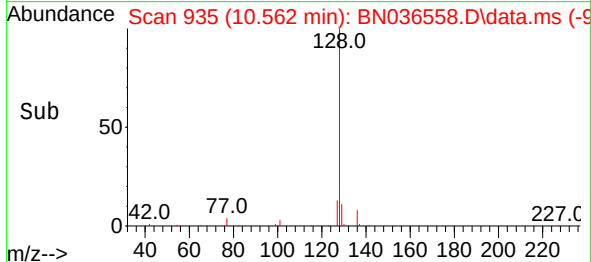
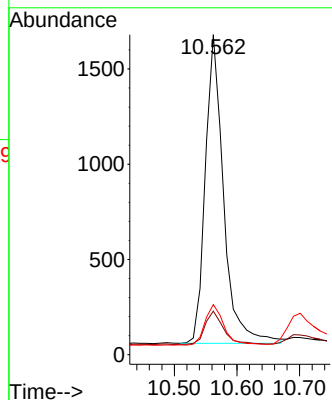
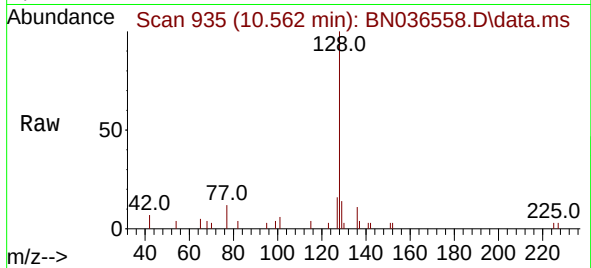




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

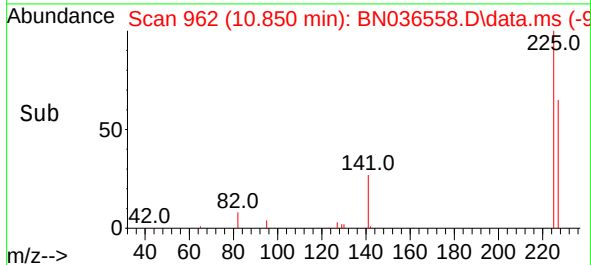
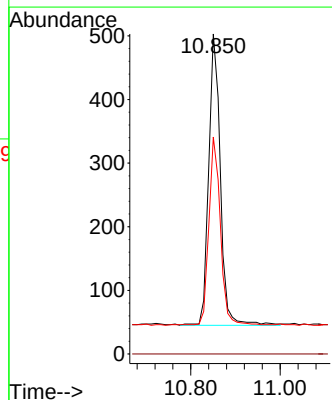
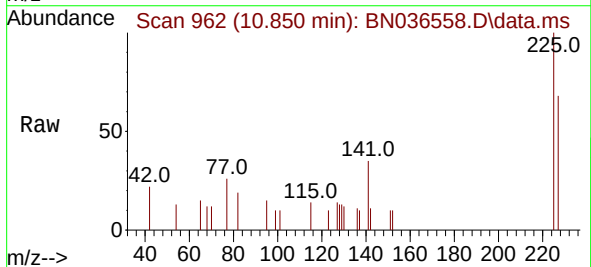
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

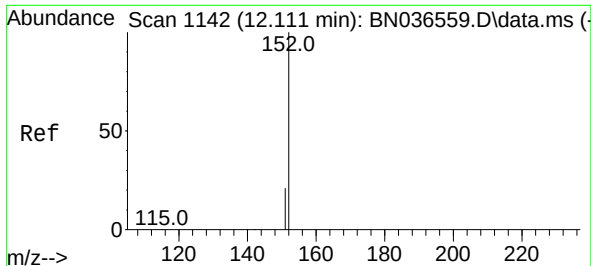
Tgt Ion:128 Resp: 3286
Ion Ratio Lower Upper
128 100
129 13.6 9.8 14.6
127 15.7 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:225 Resp: 828
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 51.8 77.8

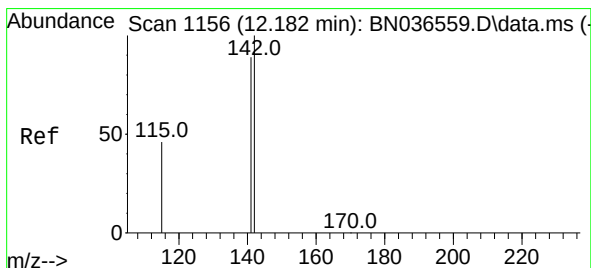
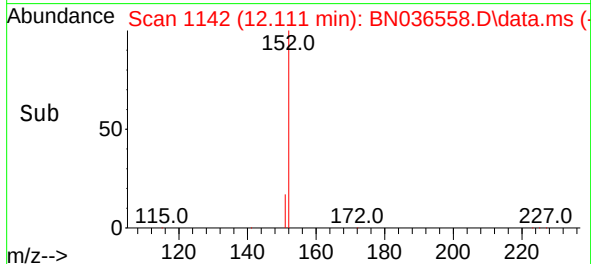
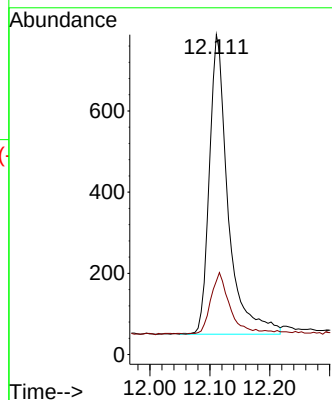
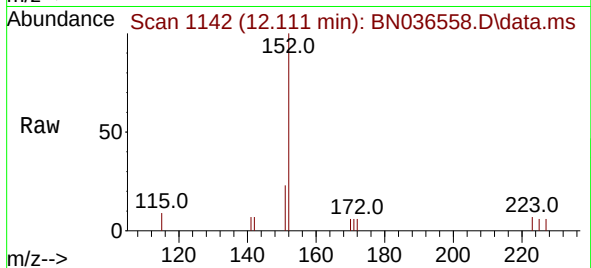




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

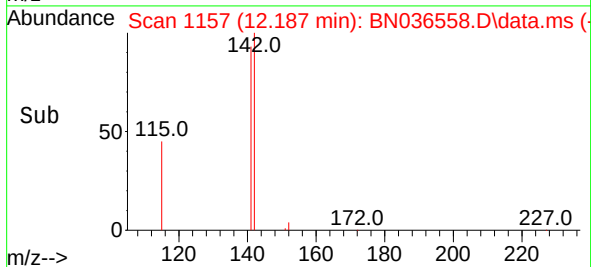
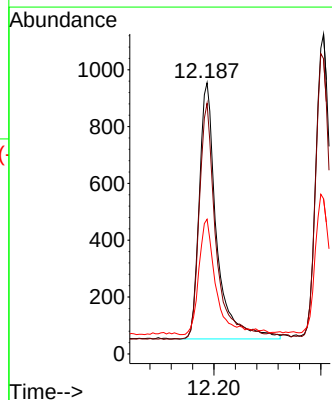
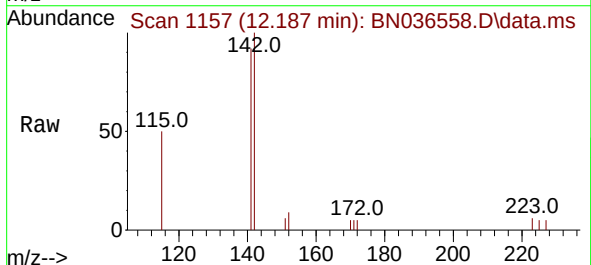
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BNA_N
ClientSampleId :
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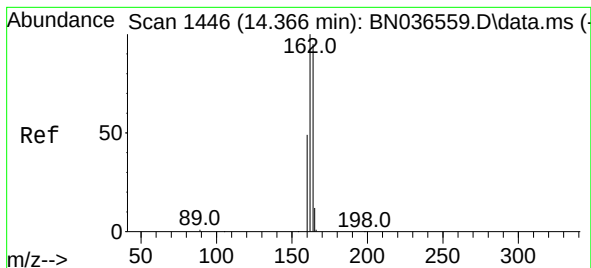
Tgt Ion:152 Resp: 1603
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

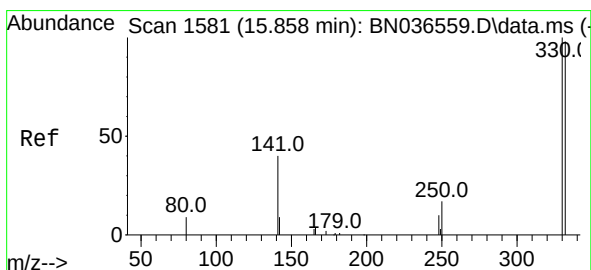
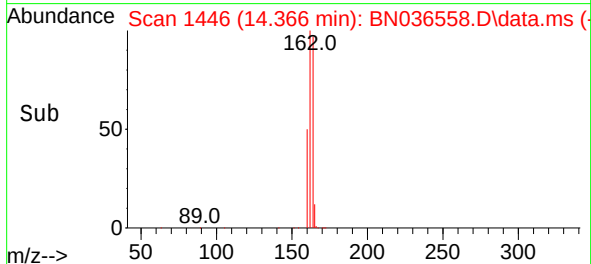
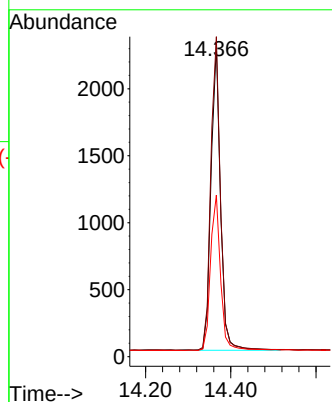
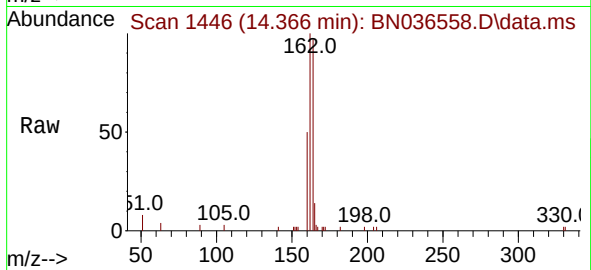
Tgt Ion:164 Resp: 3516

Ion Ratio Lower Upper

164 100

162 102.6 84.2 126.2

160 51.8 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.177 ng

RT: 15.858 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

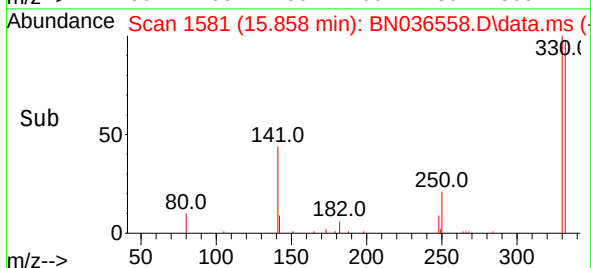
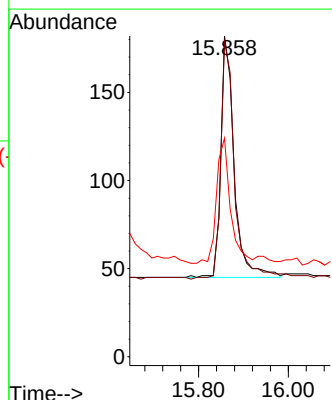
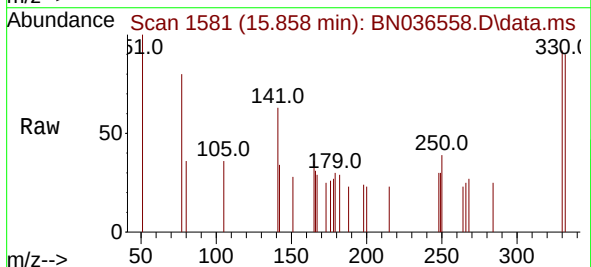
Tgt Ion:330 Resp: 282

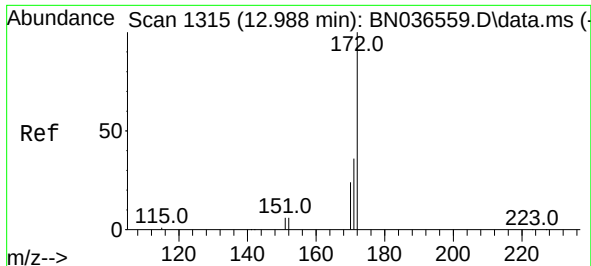
Ion Ratio Lower Upper

330 100

332 103.5 75.2 112.8

141 53.9 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.170 ng

RT: 12.993 min Scan# 1415

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

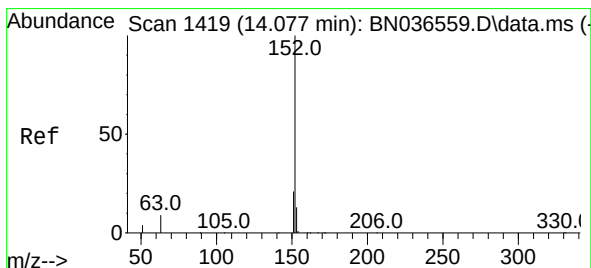
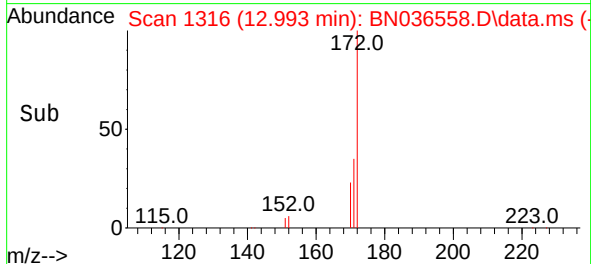
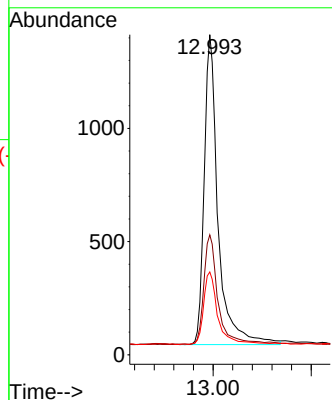
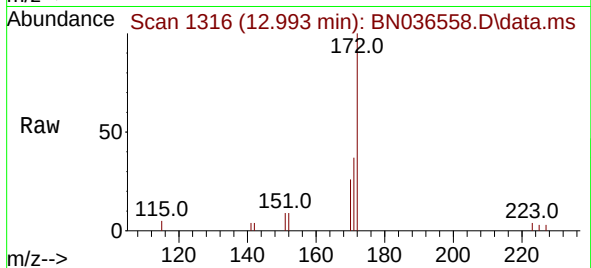
Tgt Ion:172 Resp: 3485

Ion Ratio Lower Upper

172 100

171 37.5 29.5 44.3

170 25.9 20.2 30.4



#16

Acenaphthylene

Concen: 0.186 ng

RT: 14.088 min Scan# 1420

Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

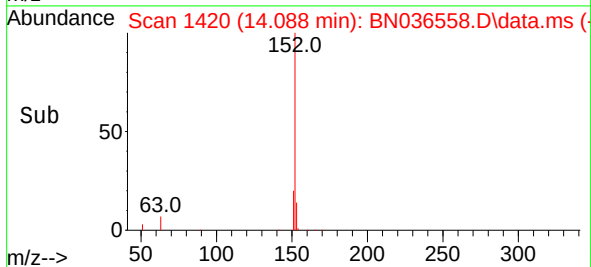
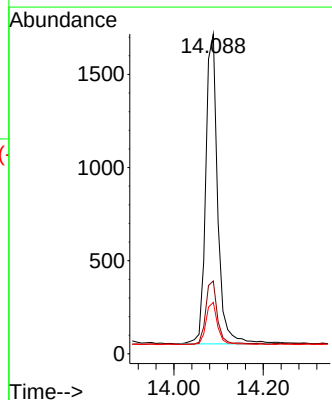
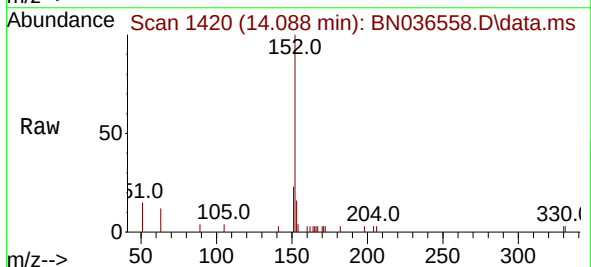
Tgt Ion:152 Resp: 3087

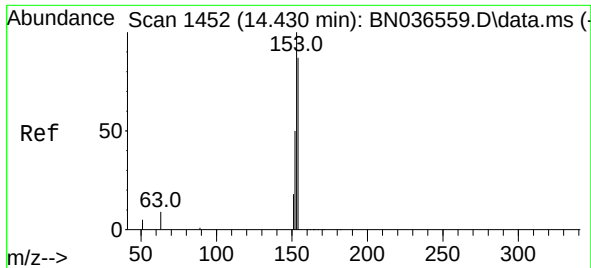
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

153 13.0 10.6 15.8

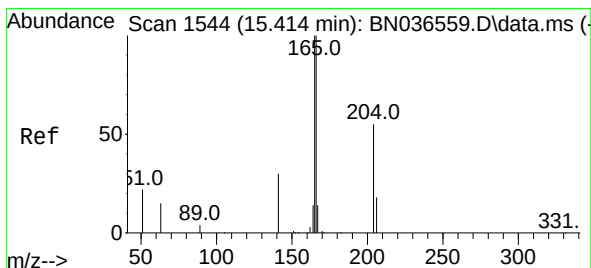
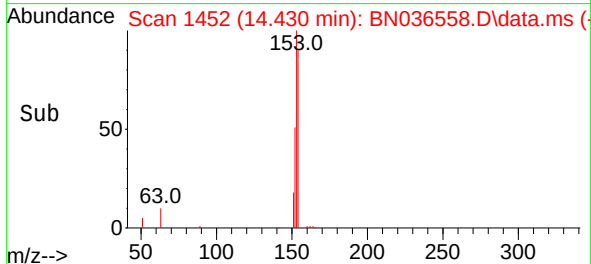
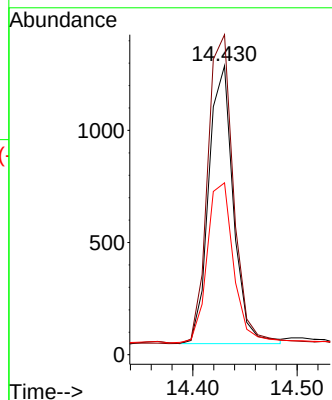
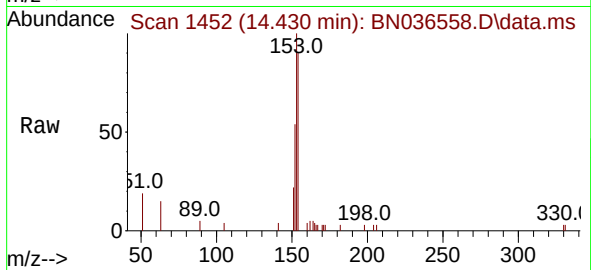




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

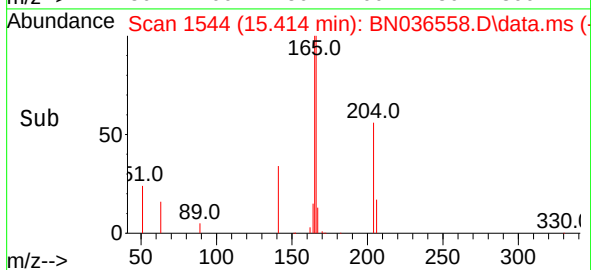
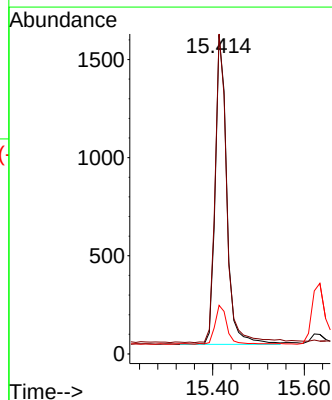
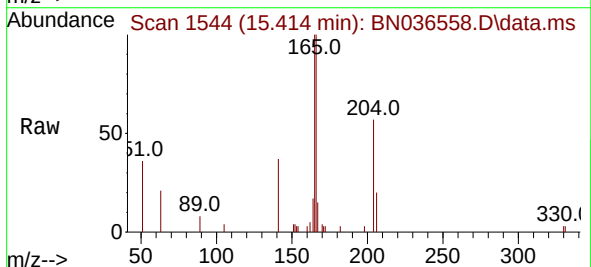
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

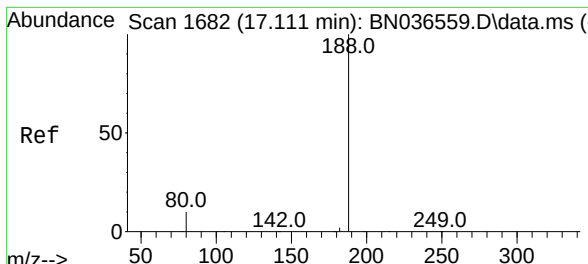
Tgt Ion:154 Resp: 2038
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.1 49.8 74.6



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.8
167 12.6 10.6 15.8

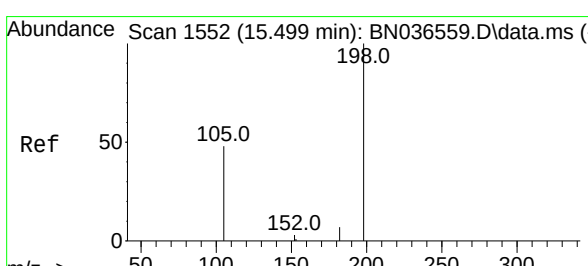
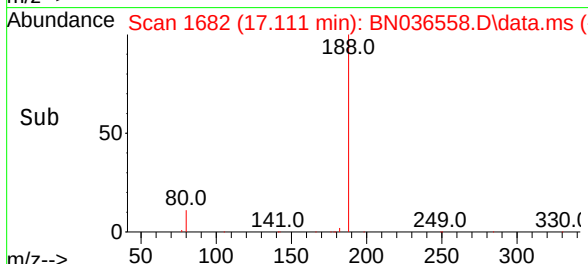
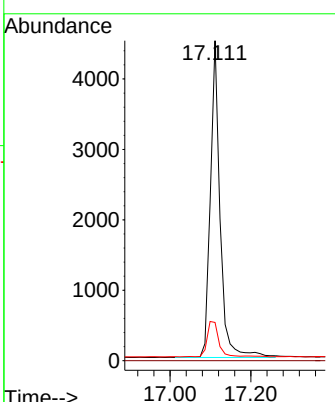
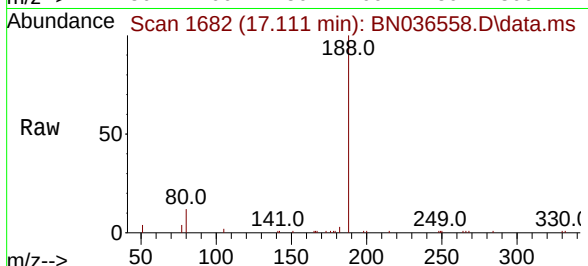




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.111 min Scan# 1682
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

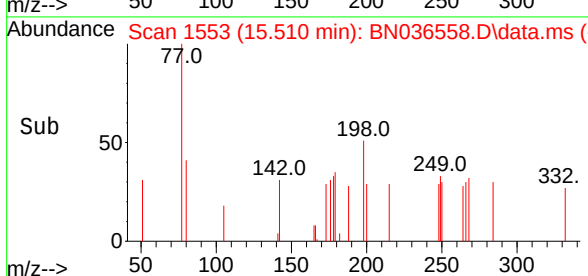
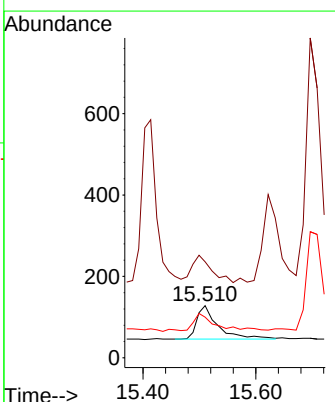
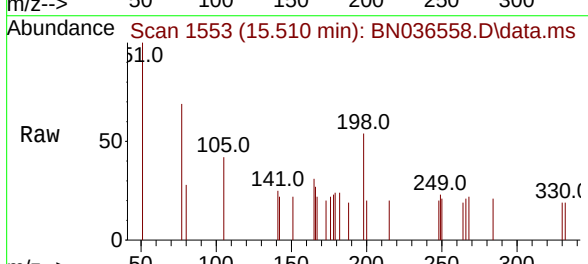
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

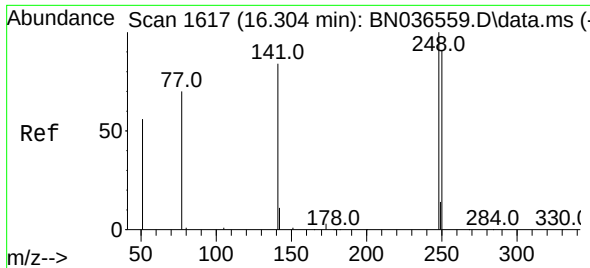
Tgt Ion:	188	Resp:	7506
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.258 ng
 RT: 15.510 min Scan# 1553
 Delta R.T. 0.011 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	198	Resp:	214
Ion Ratio	Lower	Upper	
198	100		
51	184.4	107.9	161.9
105	78.1	56.2	84.2

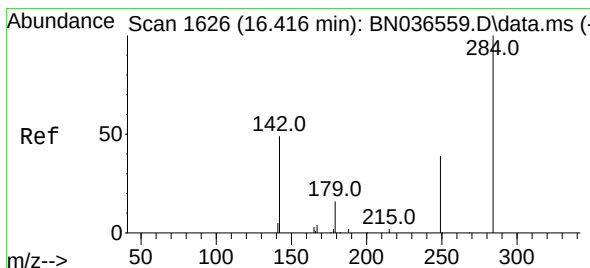
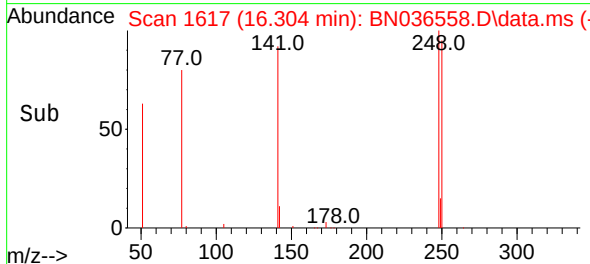
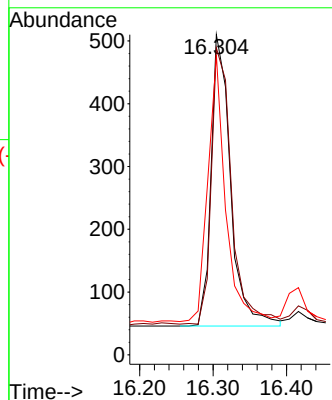
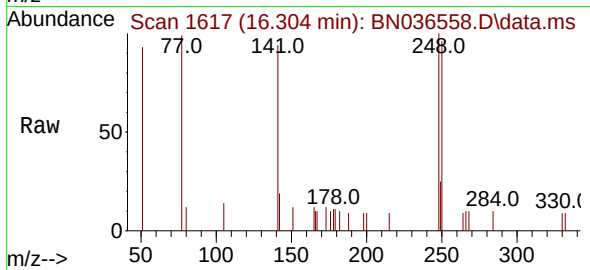




#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

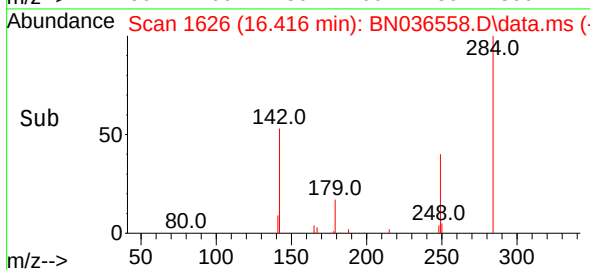
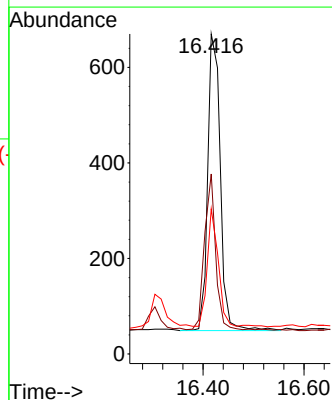
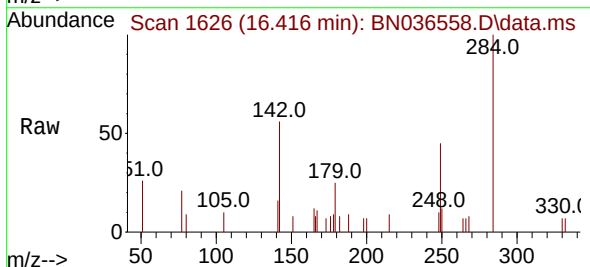
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

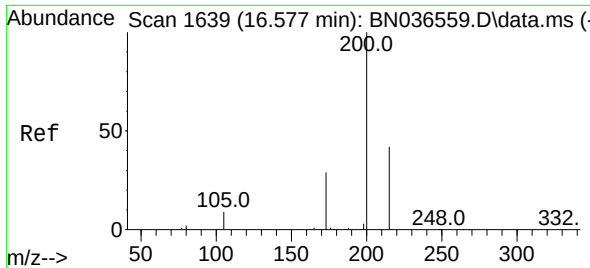
Tgt Ion:248	Resp:	853
Ion Ratio	Lower	Upper
248	100	
250	95.9	73.0 109.6
141	93.7	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284	Resp:	1079
Ion Ratio	Lower	Upper
284	100	
142	47.0	37.0 55.4
249	34.8	28.1 42.1

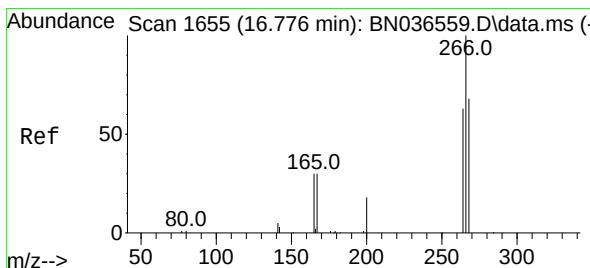
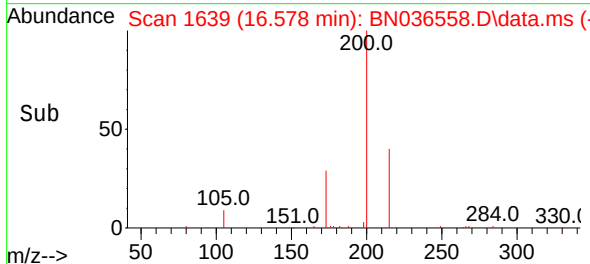
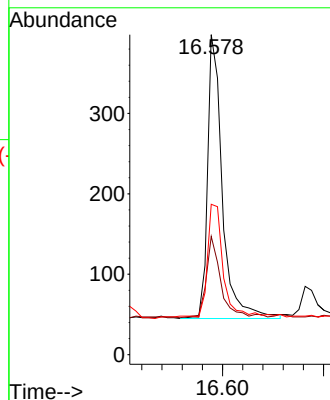
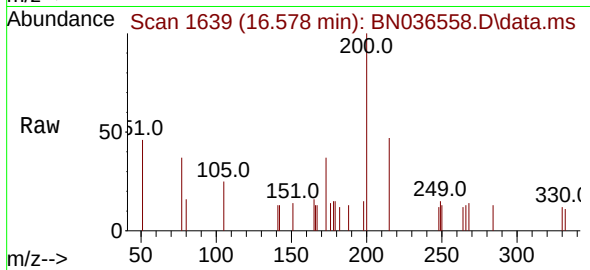




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

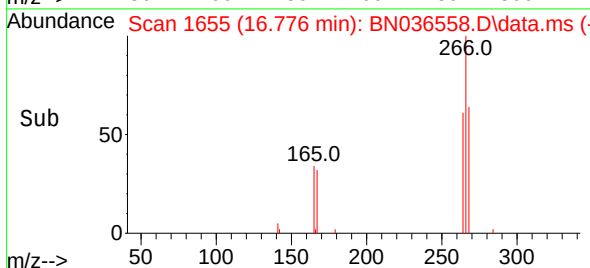
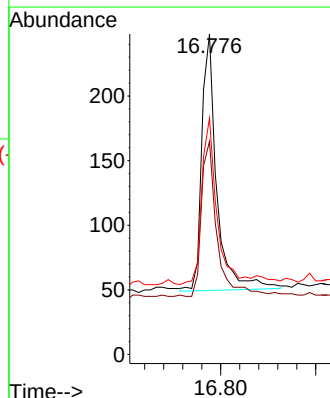
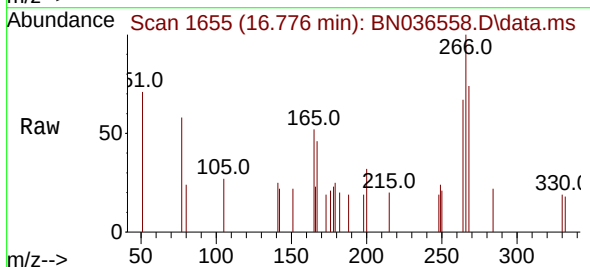
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

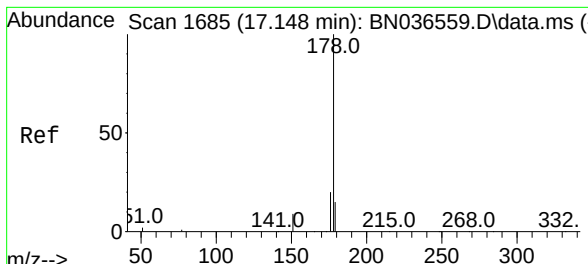
Tgt Ion:200 Resp: 716
Ion Ratio Lower Upper
200 100
173 36.9 27.3 40.9
215 47.0 36.8 55.2



#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3

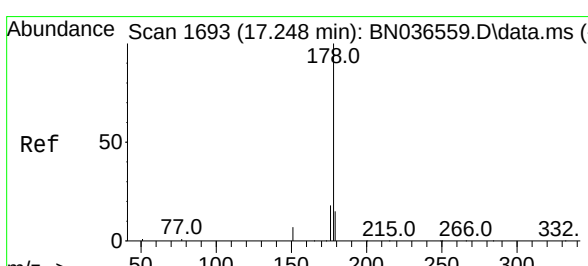
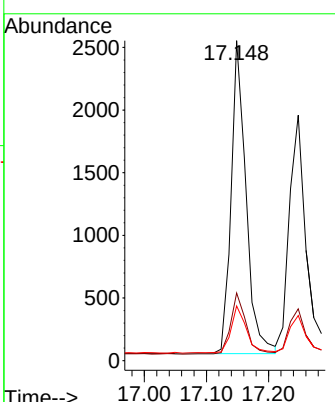
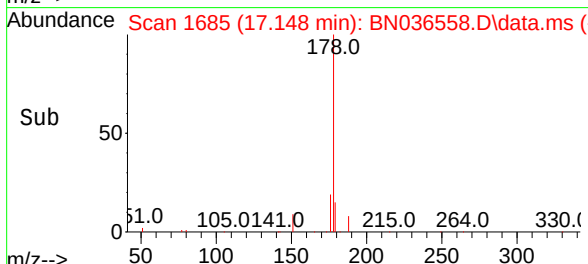
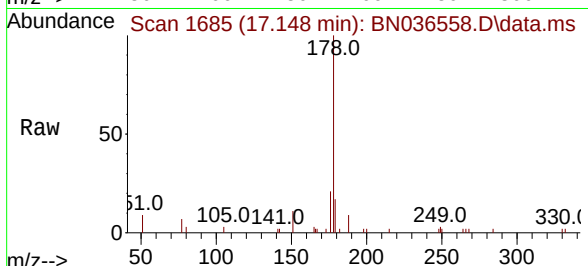




#25
 Phenanthrene
 Concen: 0.185 ng
 RT: 17.148 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

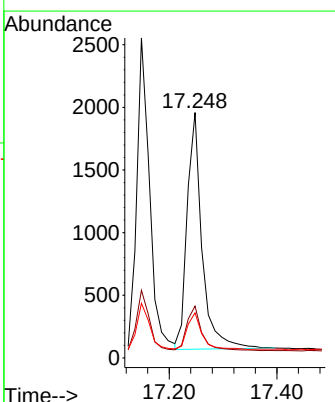
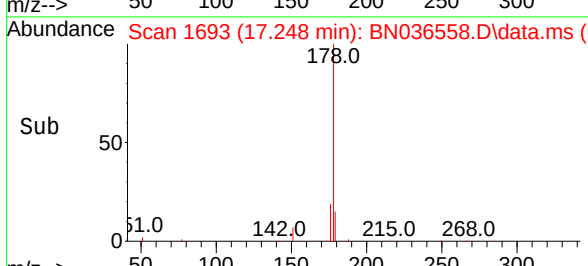
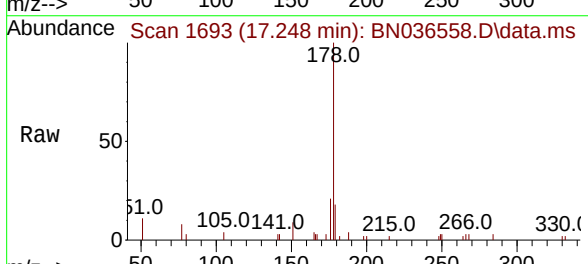
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

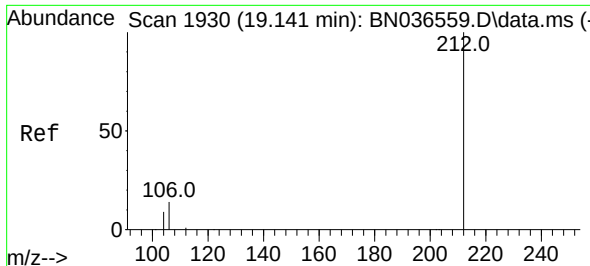
Tgt Ion:	178	Resp:	4171
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



#26
 Anthracene
 Concen: 0.179 ng
 RT: 17.248 min Scan# 1693
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	178	Resp:	3645
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

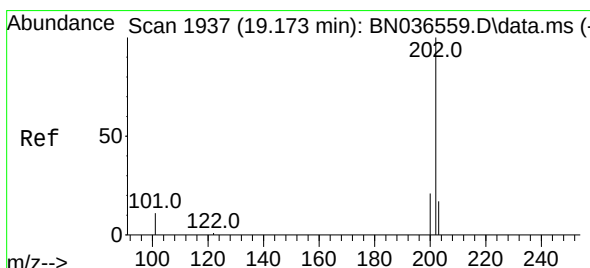
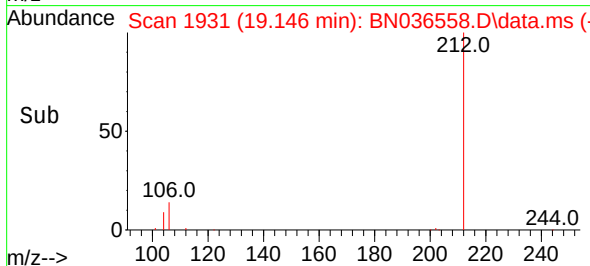
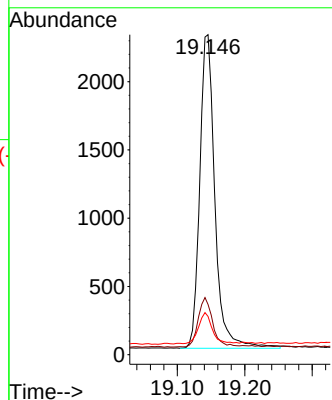
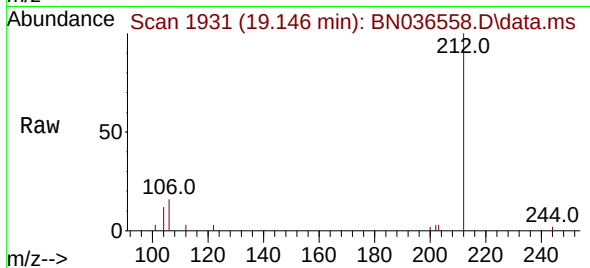
Tgt Ion:212 Resp: 3583

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.3 7.3 10.9



#28

Fluoranthene

Concen: 0.184 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

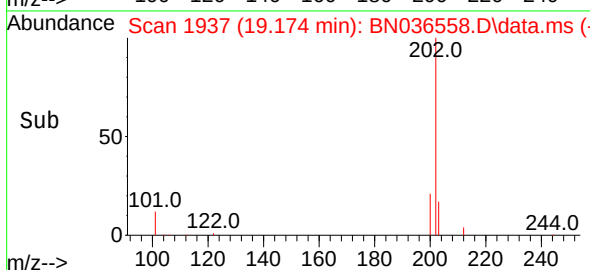
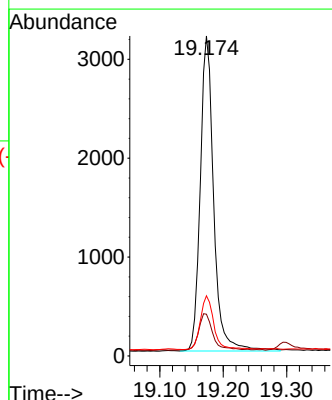
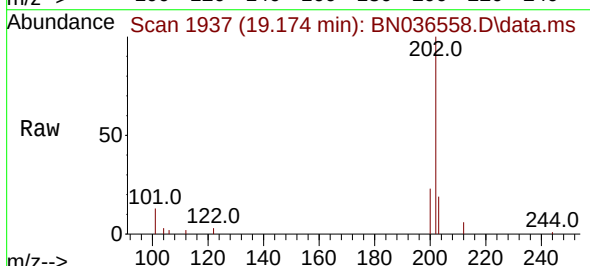
Tgt Ion:202 Resp: 4666

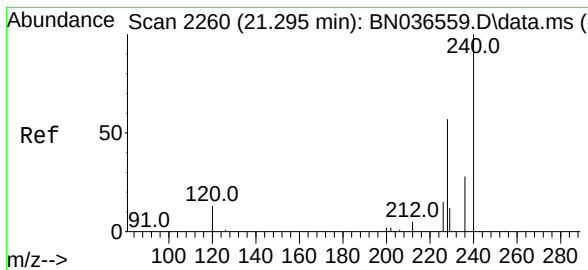
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.1 13.5 20.3

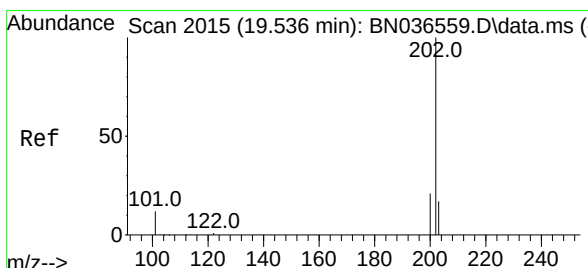
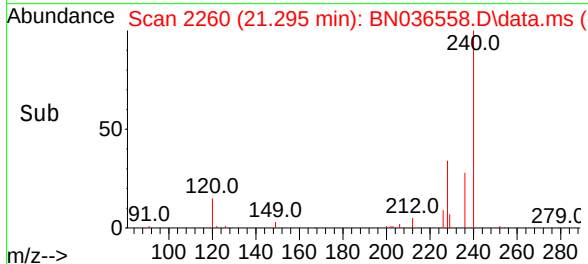
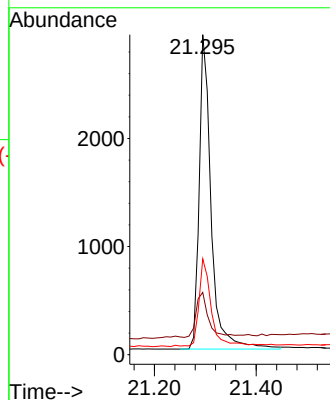
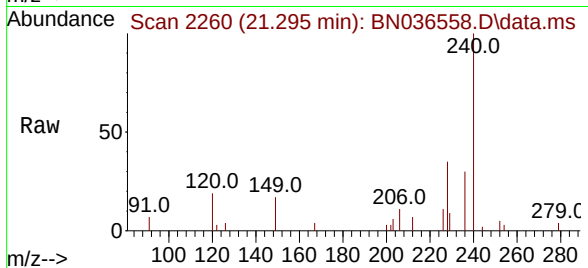




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

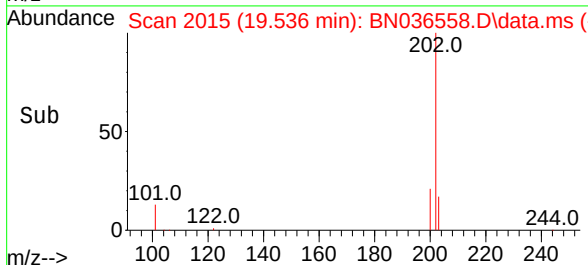
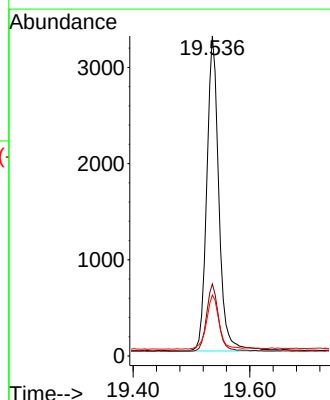
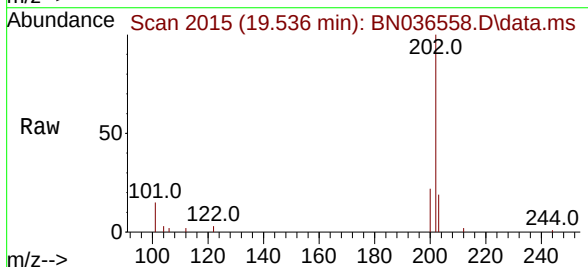
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

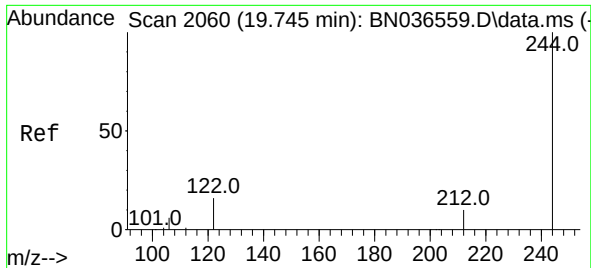
Tgt Ion:240 Resp: 4730
Ion Ratio Lower Upper
240 100
120 19.5 14.6 22.0
236 29.9 24.1 36.1



#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4742
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.7 14.1 21.1

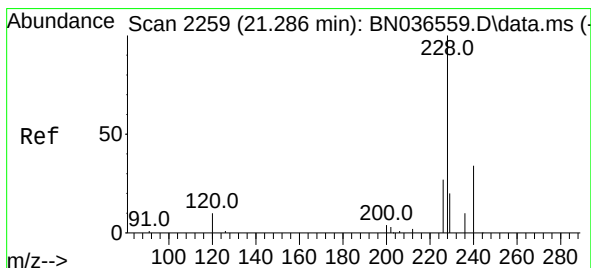
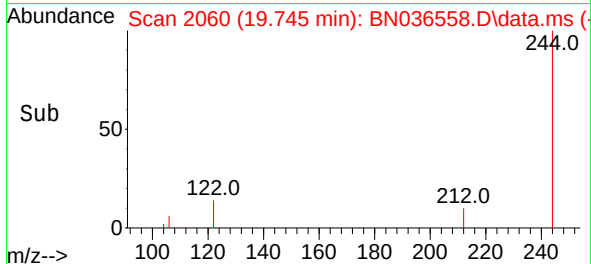
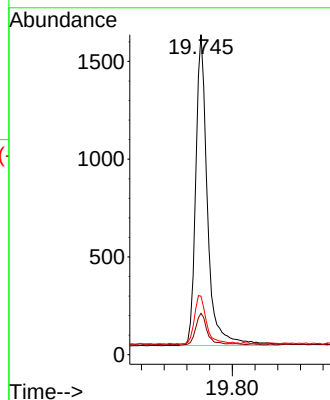
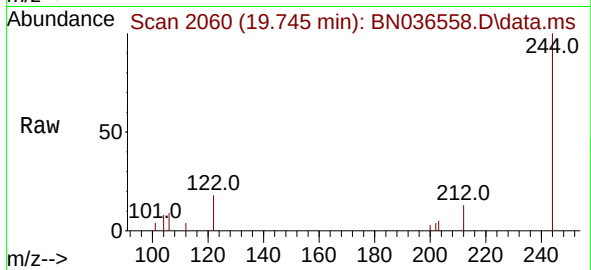




#31
 Terphenyl-d14
 Concen: 0.201 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

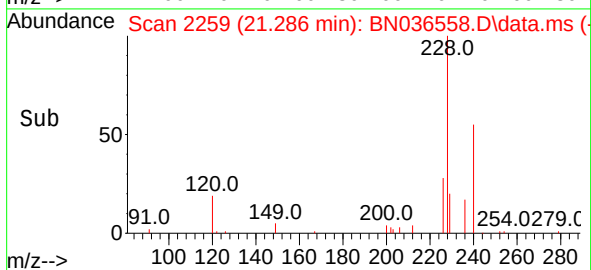
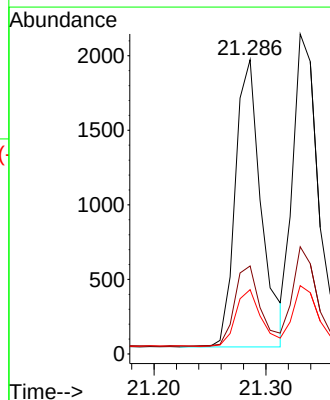
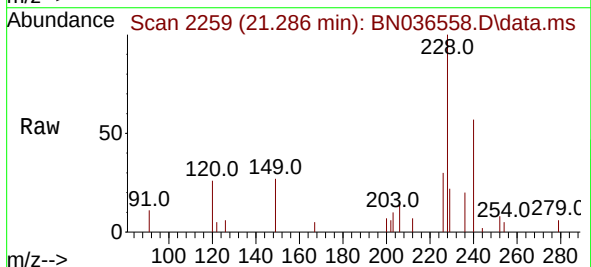
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

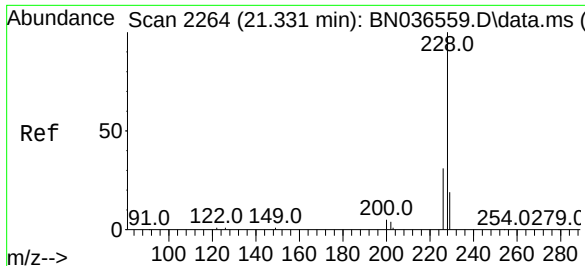
Tgt Ion:244	Resp:	2283
Ion Ratio	Lower	Upper
244	100	
212	12.9	9.6 14.4
122	18.3	13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.189 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:228	Resp:	3111
Ion Ratio	Lower	Upper
228	100	
226	29.9	22.5 33.7
229	21.9	16.6 25.0





#33

Chrysene

Concen: 0.199 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

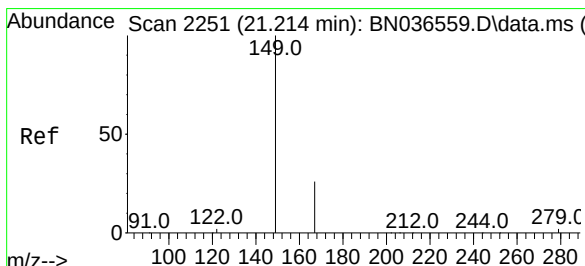
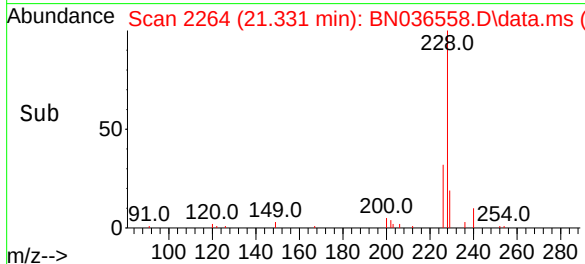
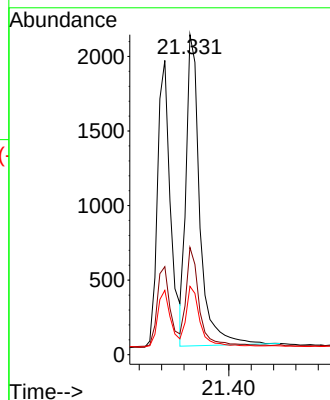
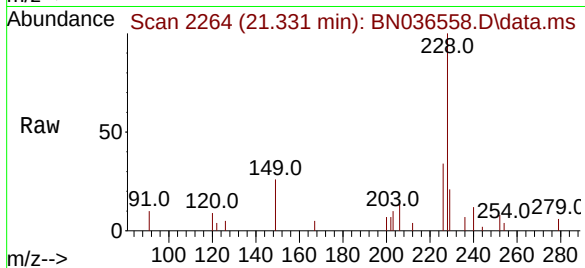
Tgt Ion:228 Resp: 3568

Ion Ratio Lower Upper

228 100

226 33.5 25.3 37.9

229 21.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

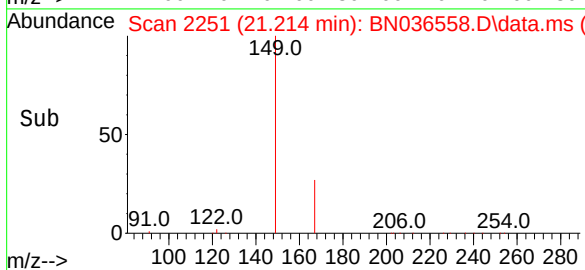
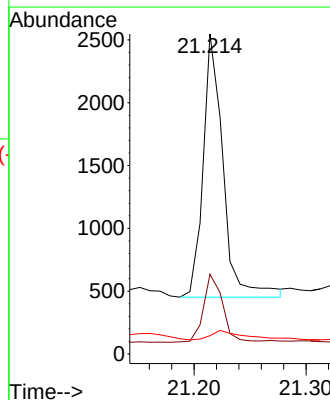
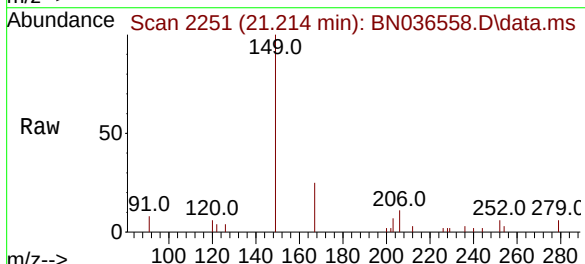
Tgt Ion:149 Resp: 2601

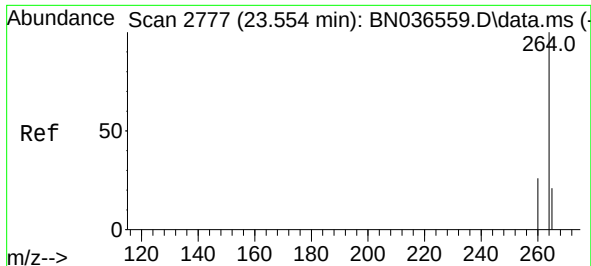
Ion Ratio Lower Upper

149 100

167 24.7 20.7 31.1

279 5.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

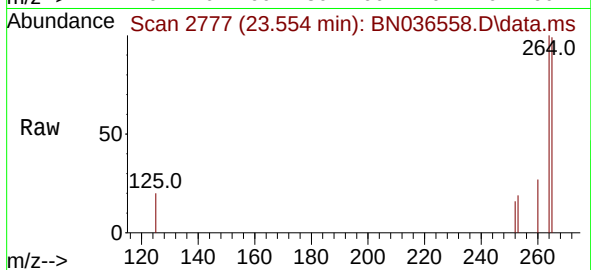
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



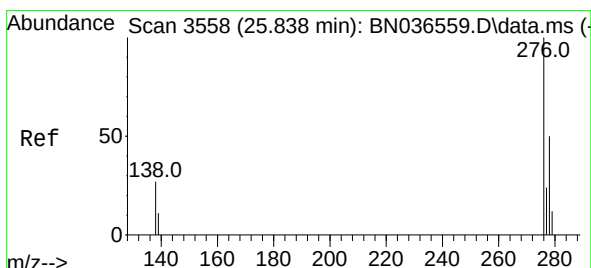
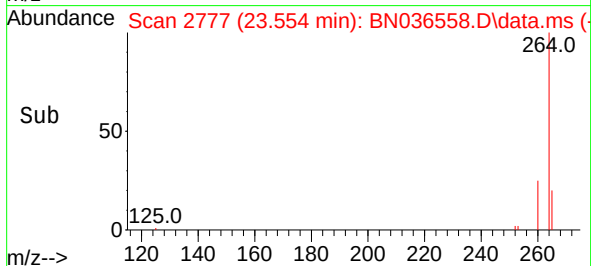
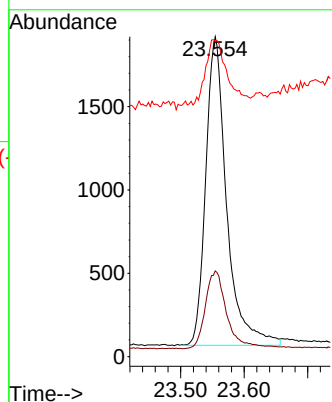
Tgt Ion:264 Resp: 4241

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

265 98.5 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

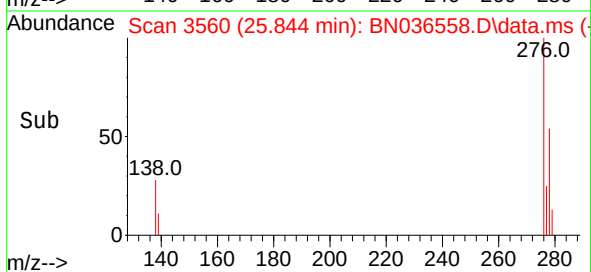
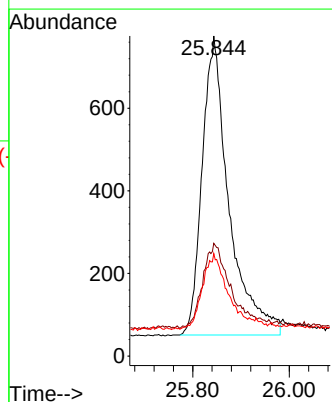
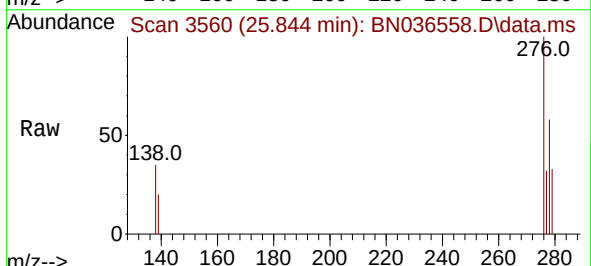
Tgt Ion:276 Resp: 2790

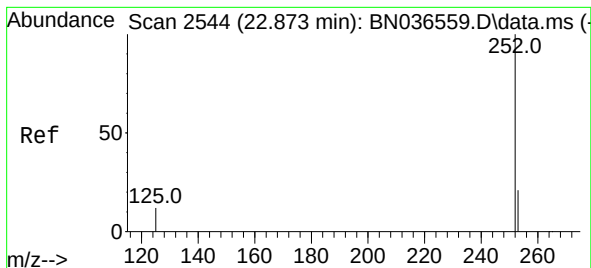
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

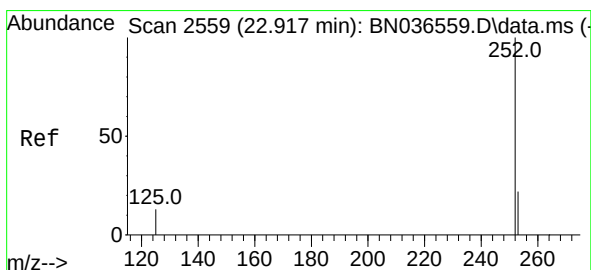
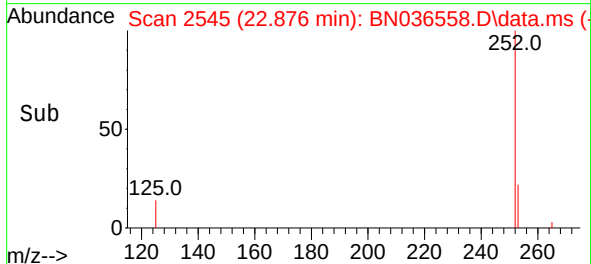
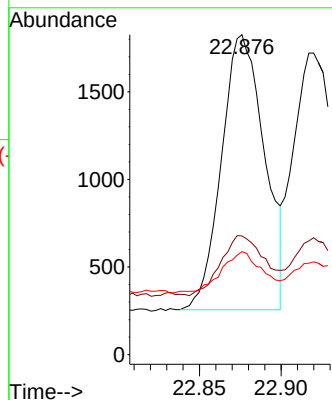
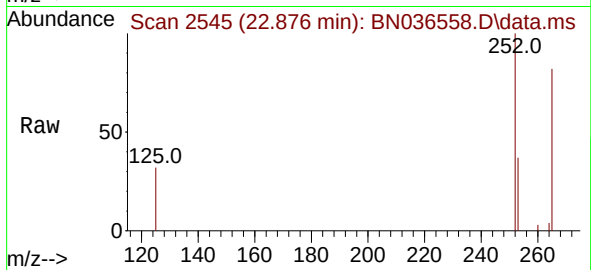
Tgt Ion:252 Resp: 2883

Ion Ratio Lower Upper

252 100

253 37.1 23.9 35.9#

125 32.2 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

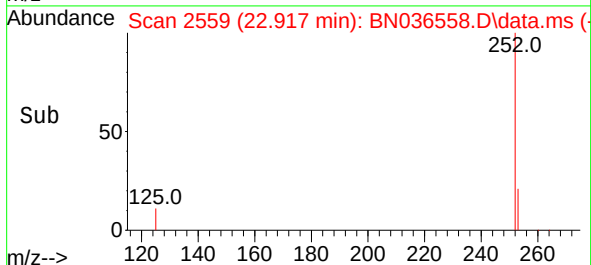
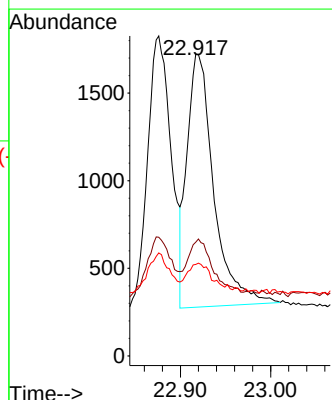
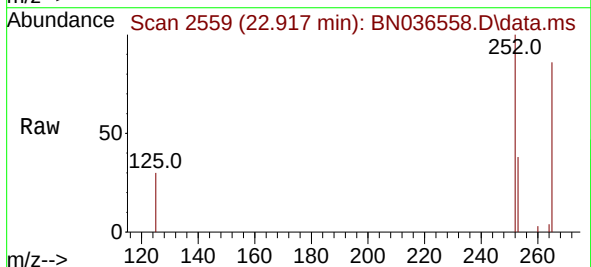
Tgt Ion:252 Resp: 2962

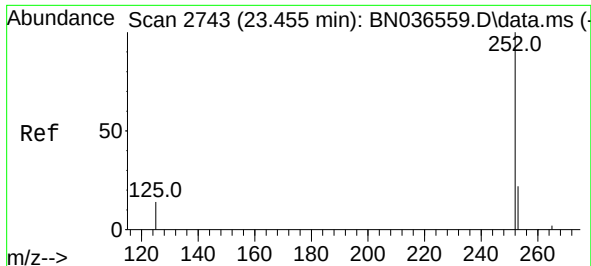
Ion Ratio Lower Upper

252 100

253 37.7 24.6 36.8#

125 30.3 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

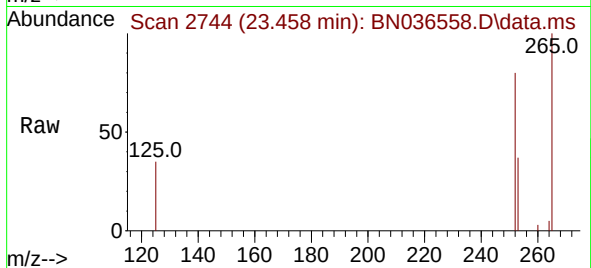
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



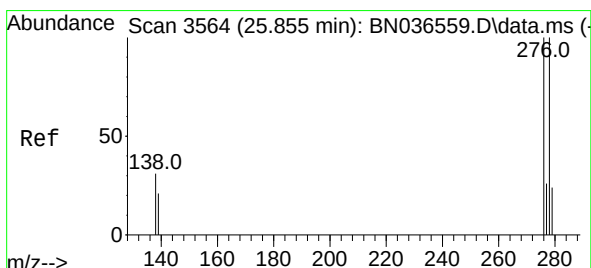
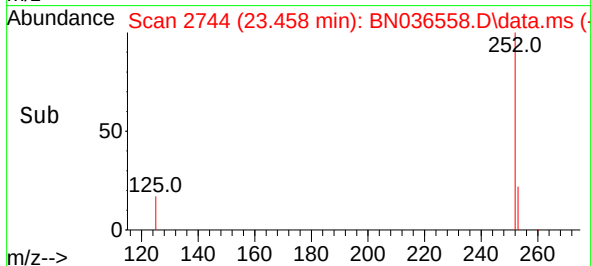
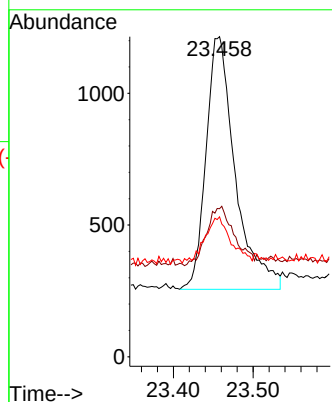
Tgt Ion:252 Resp: 2443

Ion Ratio Lower Upper

252 100

253 46.3 27.8 41.8#

125 43.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

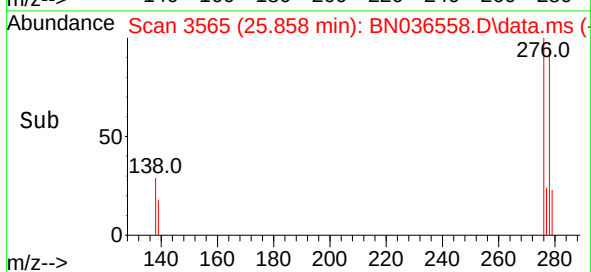
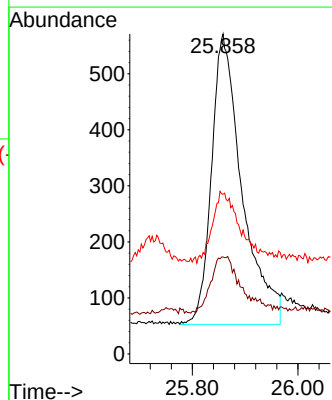
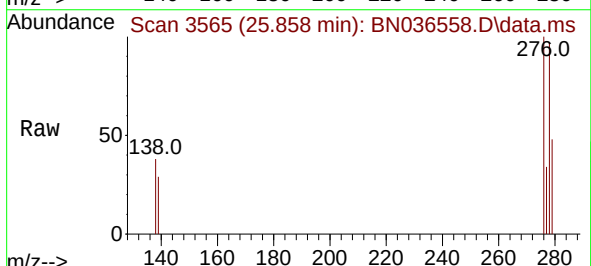
Tgt Ion:278 Resp: 2080

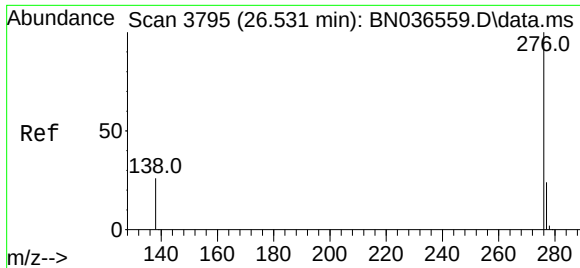
Ion Ratio Lower Upper

278 100

139 30.3 20.8 31.2

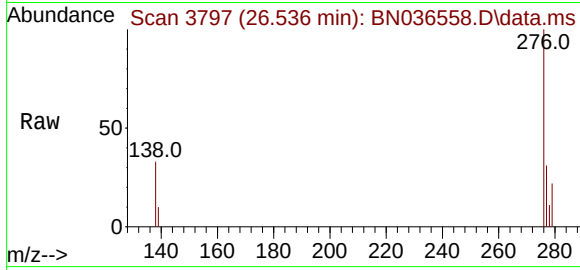
279 49.9 28.8 43.2#



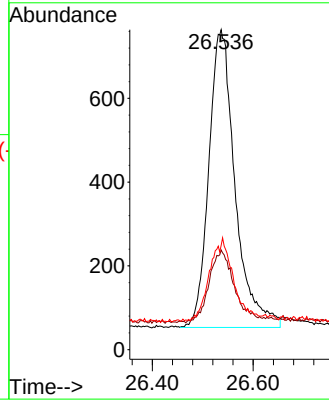
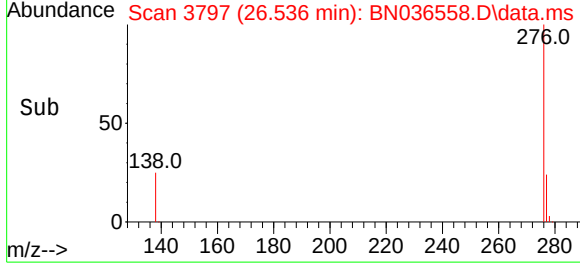


#41
 Benzo(g,h,i)perylene
 Concen: 0.189 ng
 RT: 26.536 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:	276	Resp:	2573
Ion	Ratio	Lower	Upper
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036569.D
 Acq On : 10 Mar 2025 19:38
 Operator : RC/JU
 Sample : Q1531-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250306

Quant Time: Mar 11 00:52:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

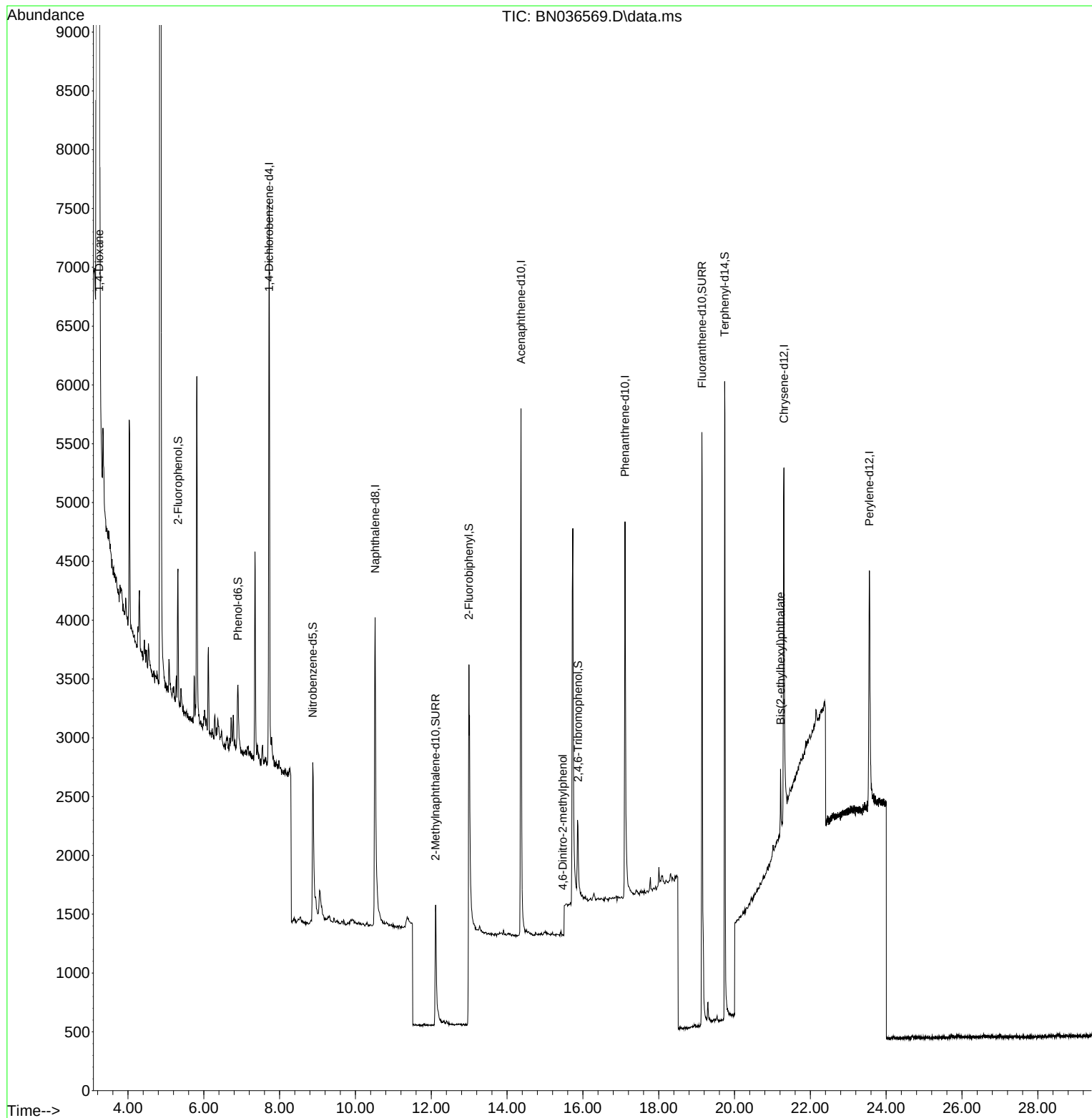
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2291	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4880	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2910	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5566	0.400	ng	# 0.00
29) Chrysene-d12	21.304	240	3909	0.400	ng	0.00
35) Perylene-d12	23.557	264	3415	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	829	0.155	ng	0.00
5) Phenol-d6	6.901	99	554	0.084	ng	0.00
8) Nitrobenzene-d5	8.875	82	1737	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	12.116	152	2265	0.312	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	500	0.379	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5235	0.309	ng	0.00
27) Fluoranthene-d10	19.141	212	6371	0.447	ng	0.00
31) Terphenyl-d14	19.740	244	5588	0.597	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	9449	3.718	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	1	0.146	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.214	149	522	0.054	ng	99

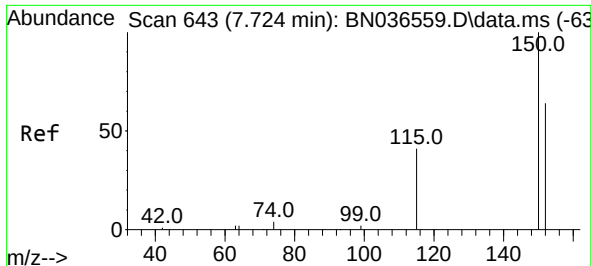
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036569.D
Acq On : 10 Mar 2025 19:38
Operator : RC/JU
Sample : Q1531-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

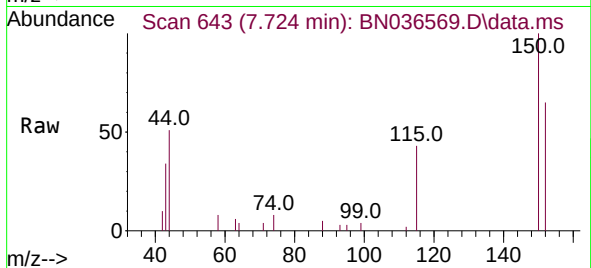
Quant Time: Mar 11 00:52:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



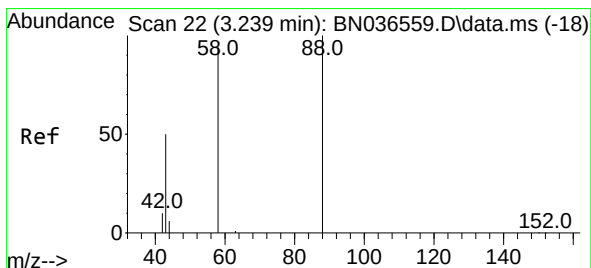
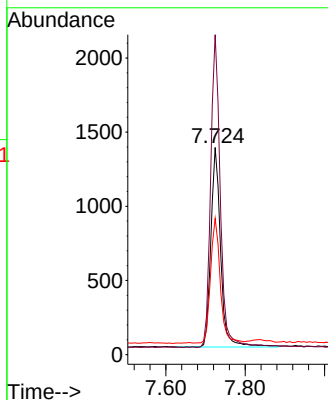
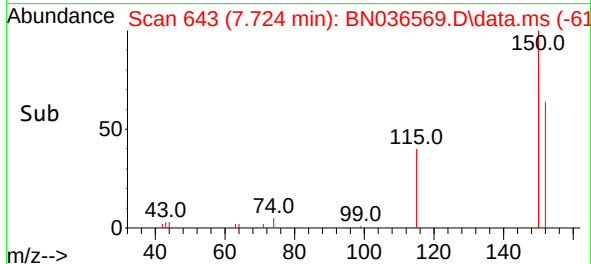


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

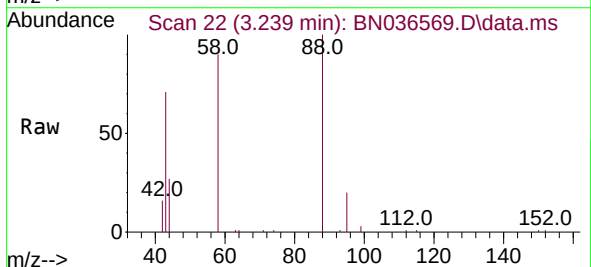
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306



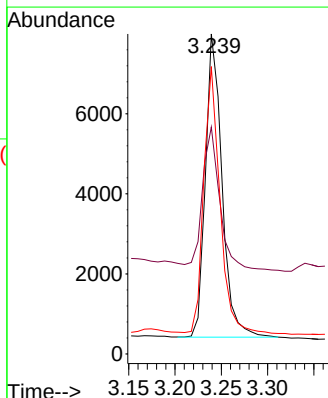
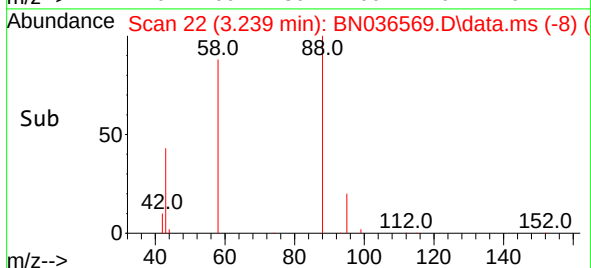
Tgt Ion:152 Resp: 2291
Ion Ratio Lower Upper
152 100
150 154.4 123.7 185.5
115 65.8 54.3 81.5

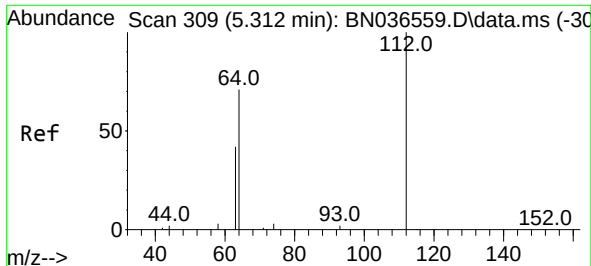


#2
1,4-Dioxane
Concen: 3.718 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38



Tgt Ion: 88 Resp: 9449
Ion Ratio Lower Upper
88 100
43 49.4 37.8 56.8
58 85.7 67.4 101.2

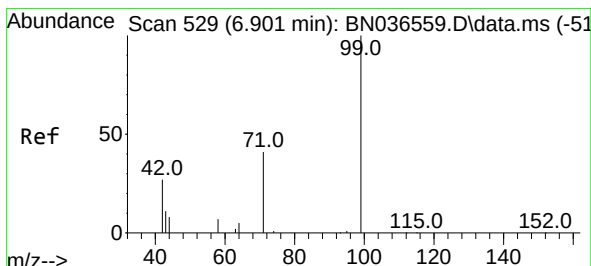
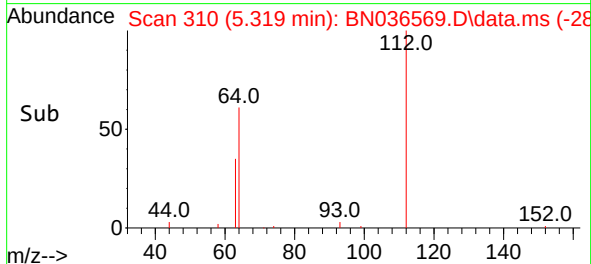
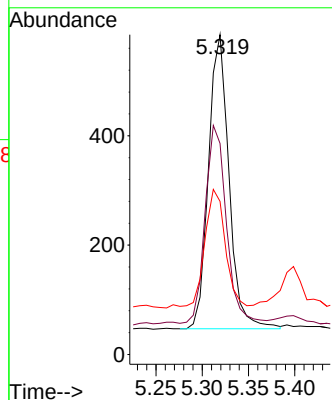
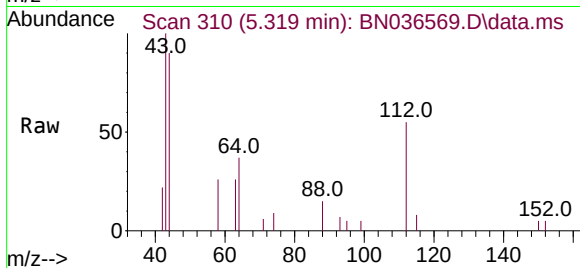




#4
2-Fluorophenol
Concen: 0.155 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.007 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

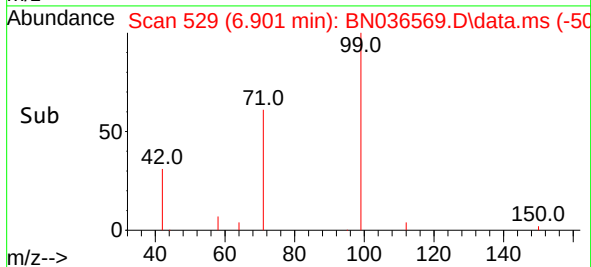
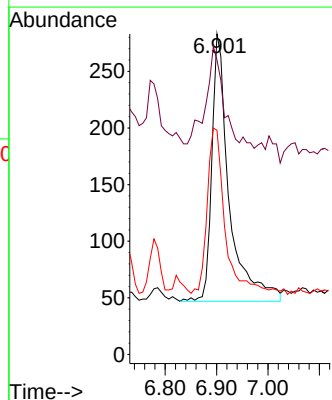
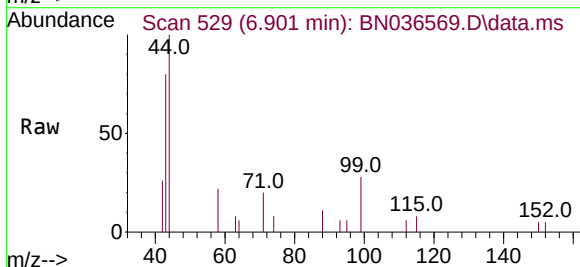
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

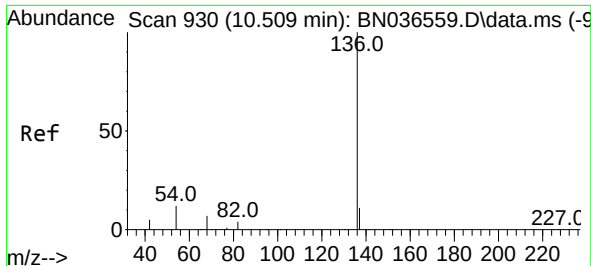
Tgt Ion:112 Resp: 829
Ion Ratio Lower Upper
112 100
64 70.3 53.1 79.7
63 41.5 31.8 47.8



#5
Phenol-d6
Concen: 0.084 ng
RT: 6.901 min Scan# 529
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion: 99 Resp: 554
Ion Ratio Lower Upper
99 100
42 34.3 26.5 39.7
71 65.5 34.1 51.1#

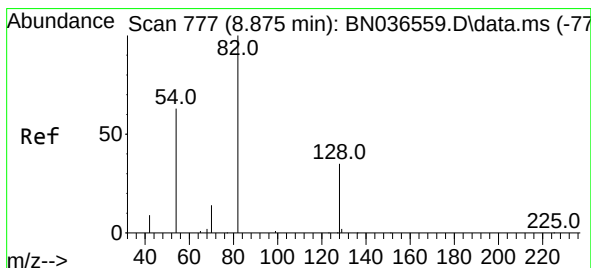
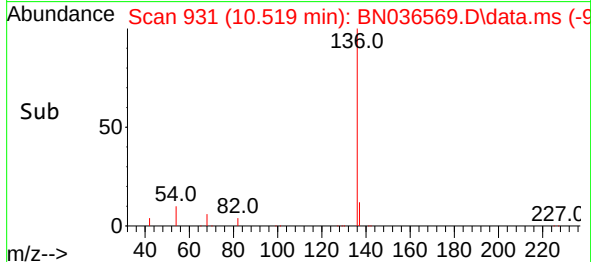
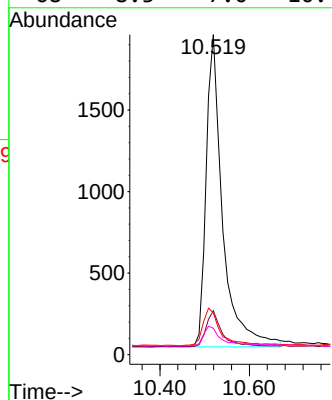
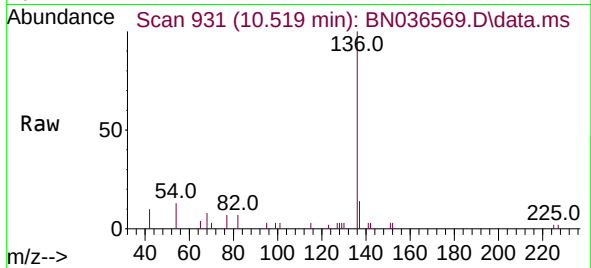




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

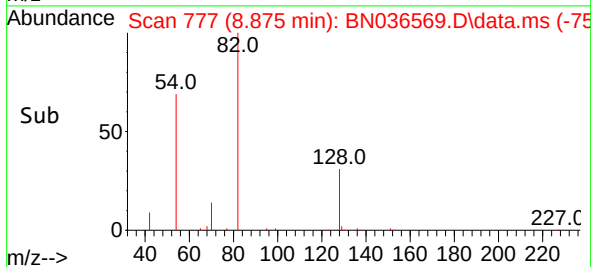
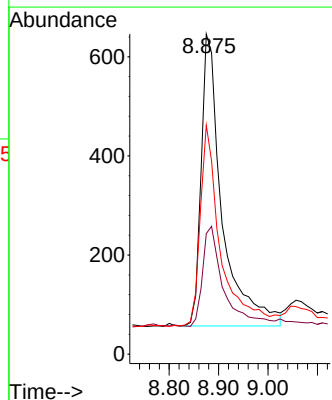
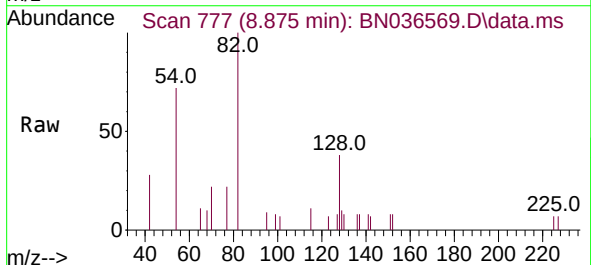
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

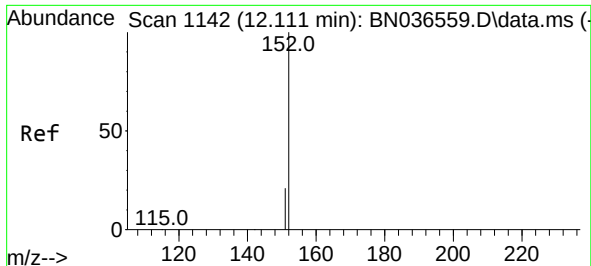
Tgt Ion:	136	Resp:	4880
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	13.1	11.5	17.3
68	8.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion:	82	Resp:	1737
Ion	Ratio	Lower	Upper
82	100		
128	37.6	30.6	45.8
54	71.5	52.2	78.4

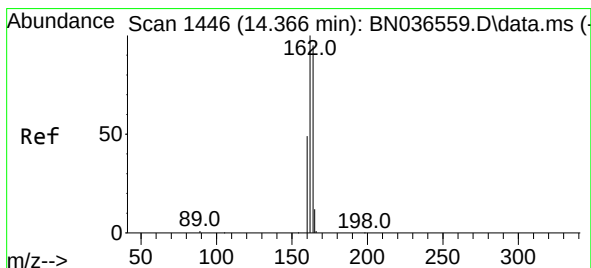
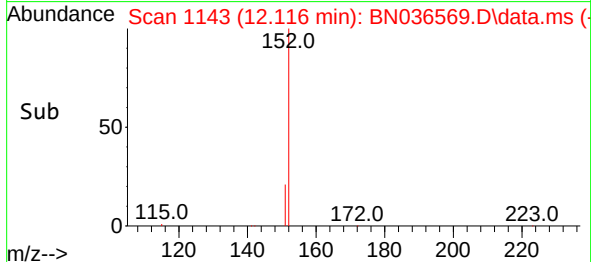
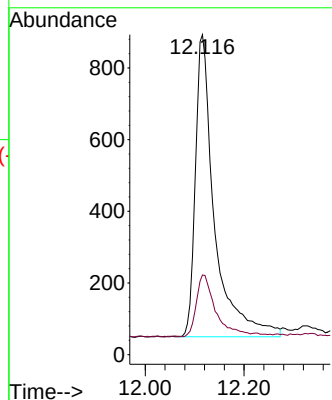
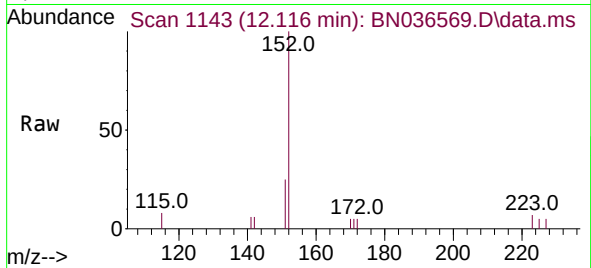




#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.005 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

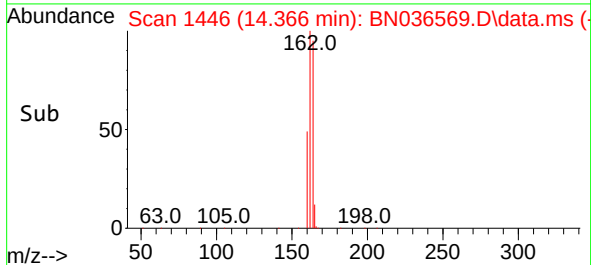
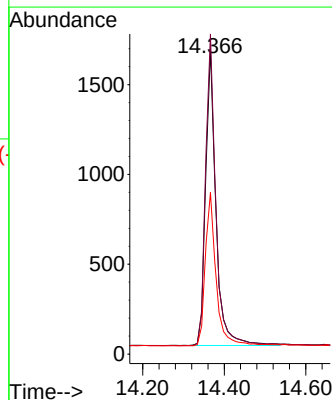
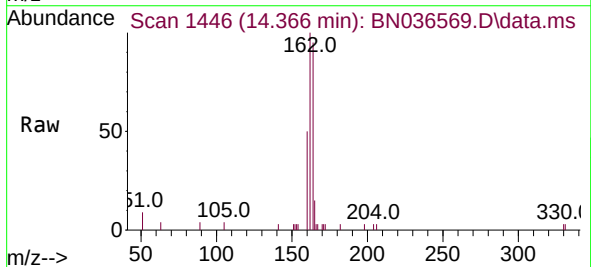
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

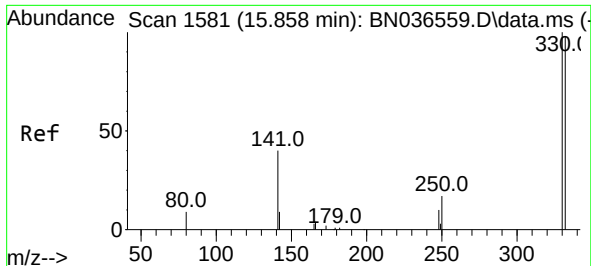
Tgt Ion:152 Resp: 2265
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

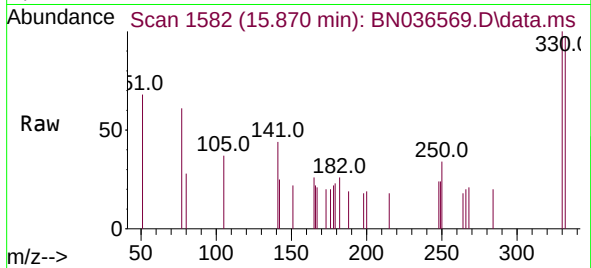
Tgt Ion:164 Resp: 2910
Ion Ratio Lower Upper
164 100
162 105.1 84.2 126.2
160 53.0 42.2 63.2



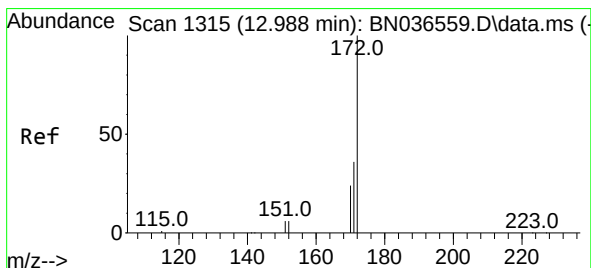
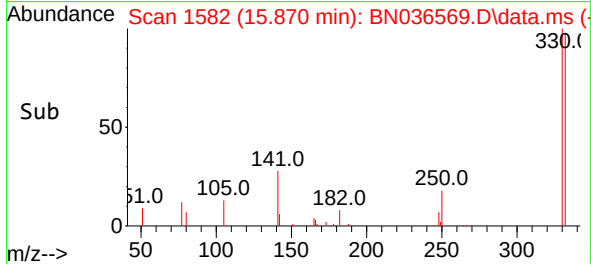
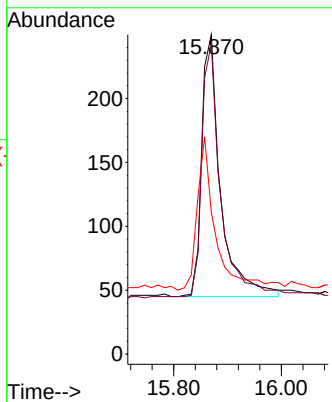


#14
2,4,6-Tribromophenol
Concen: 0.379 ng
RT: 15.870 min Scan# 11
Delta R.T. 0.012 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

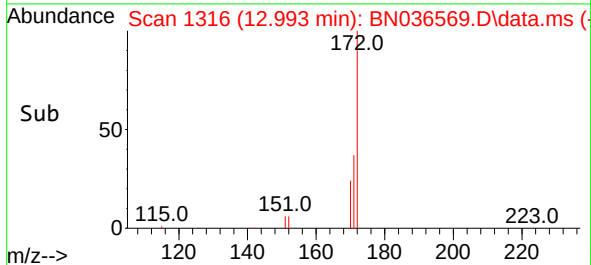
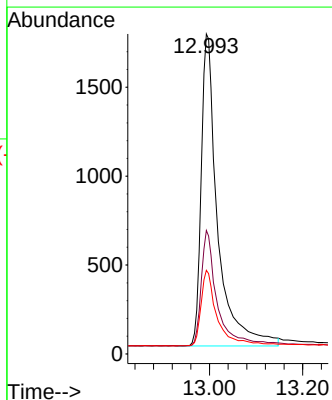
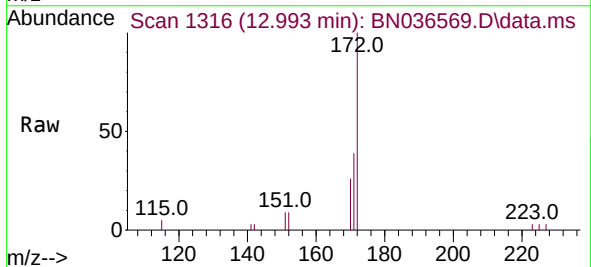


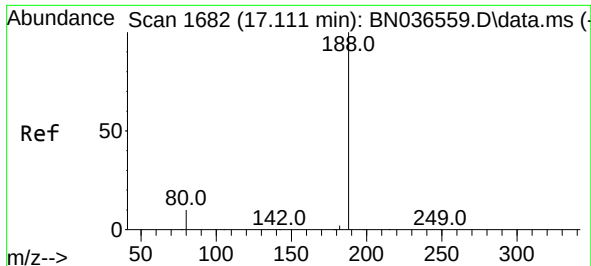
Tgt Ion:330 Resp: 500
Ion Ratio Lower Upper
330 100
332 95.8 75.2 112.8
141 57.4 43.4 65.2



#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion:172 Resp: 5235
Ion Ratio Lower Upper
172 100
171 38.6 29.5 44.3
170 26.2 20.2 30.4

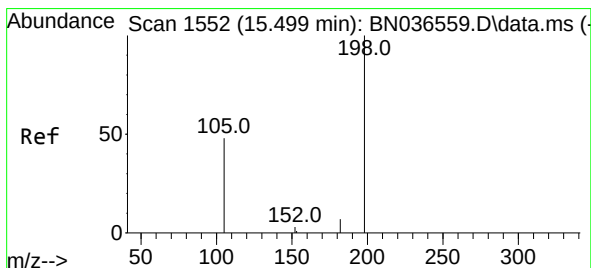
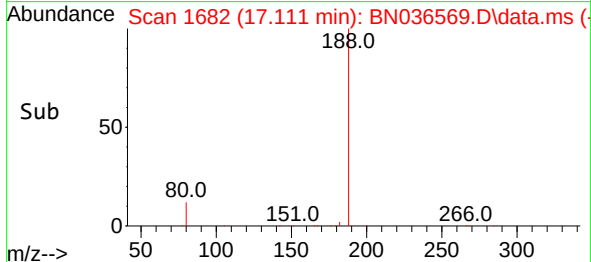
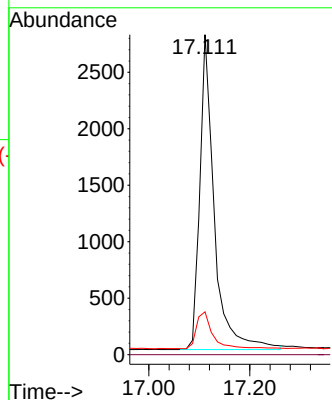
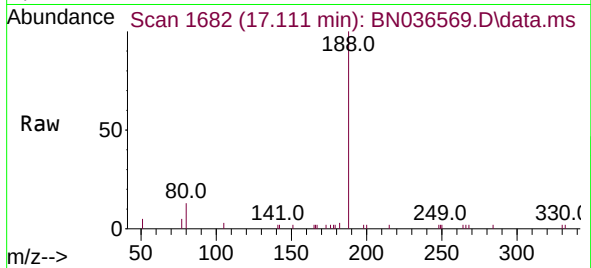




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

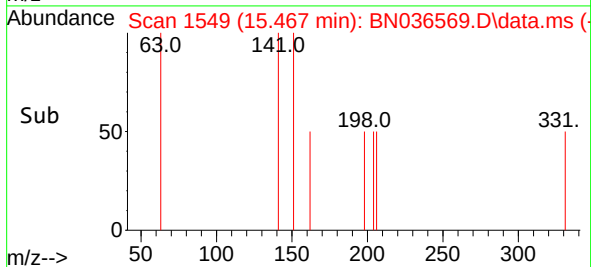
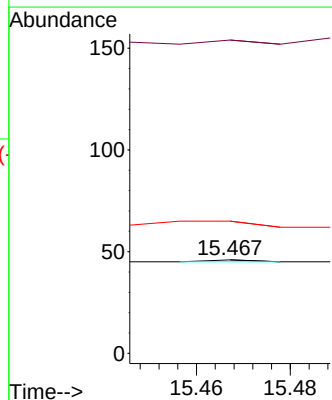
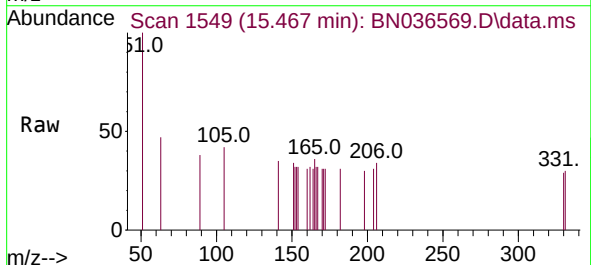
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

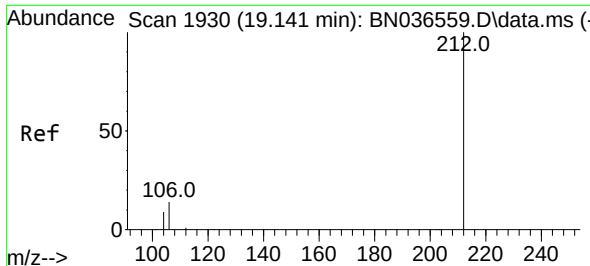
Tgt Ion:188 Resp: 5566
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 8.8 13.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.146 ng
RT: 15.467 min Scan# 1549
Delta R.T. -0.032 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion:198 Resp: 1
Ion Ratio Lower Upper
198 100
51 334.8 107.9 161.9#
105 141.3 56.2 84.2#

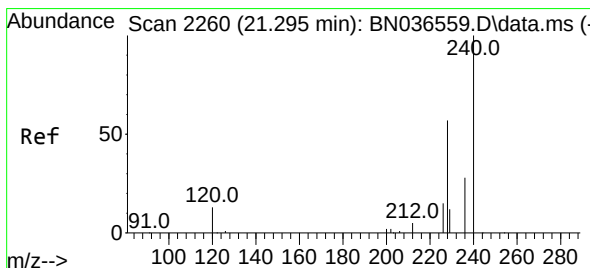
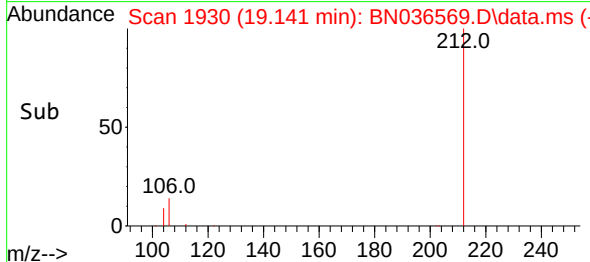
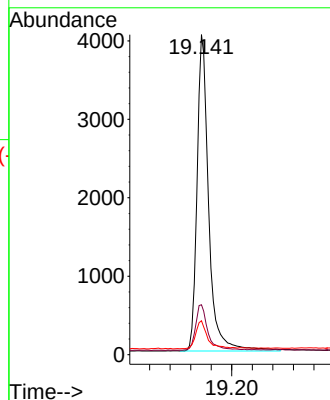
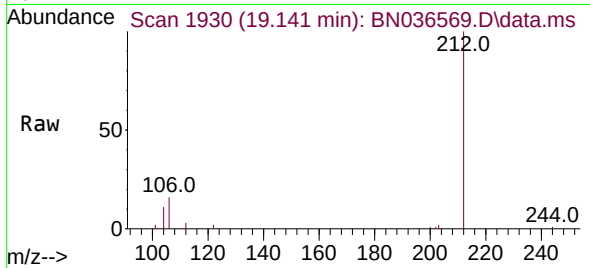




#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

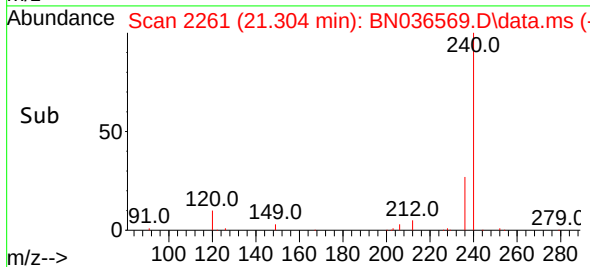
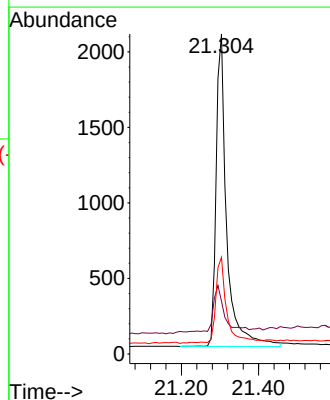
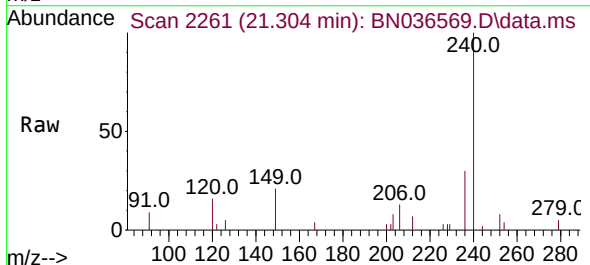
Instrument :
BNA_N
ClientSampleId :
DUP01-20250306

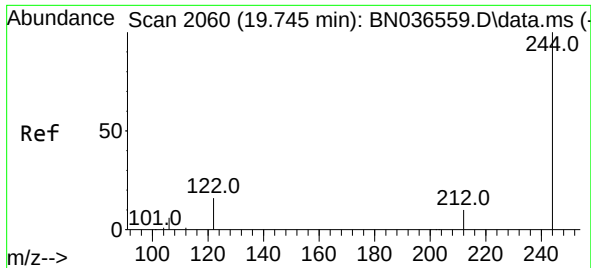
Tgt Ion:212 Resp: 6371
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 9.0 7.3 10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036569.D
Acq: 10 Mar 2025 19:38

Tgt Ion:240 Resp: 3909
Ion Ratio Lower Upper
240 100
120 16.5 14.6 22.0
236 30.2 24.1 36.1

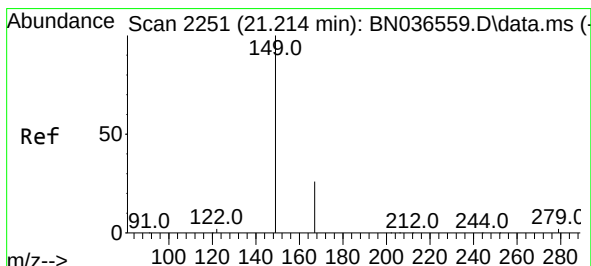
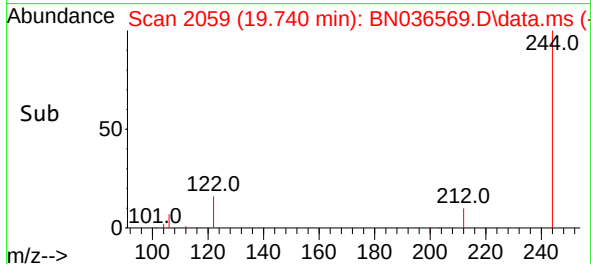
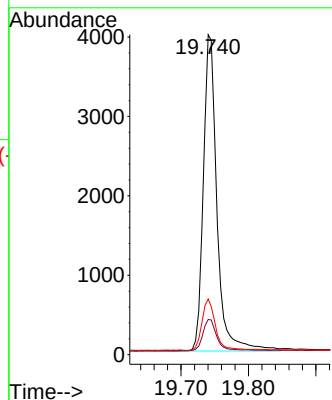
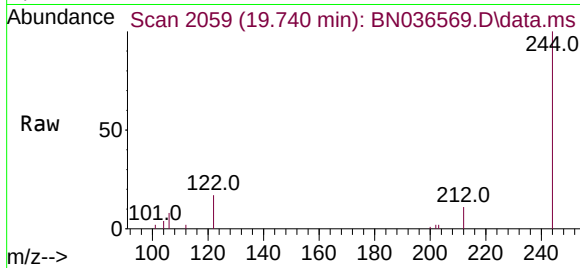




#31
 Terphenyl-d14
 Concen: 0.597 ng
 RT: 19.740 min Scan# 2060
 Delta R.T. -0.005 min
 Lab File: BN036569.D
 Acq: 10 Mar 2025 19:38

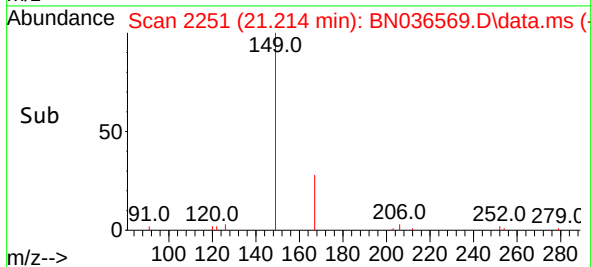
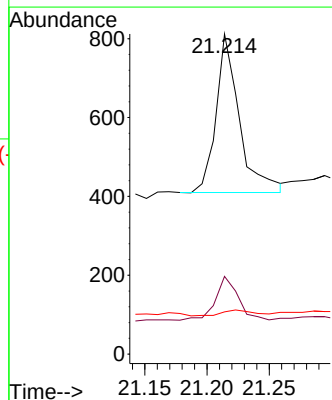
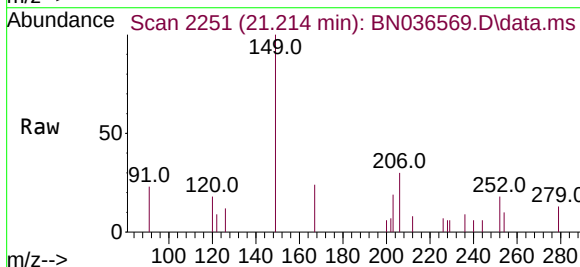
Instrument :
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 ClientSampleId :
 DUP01-20250306

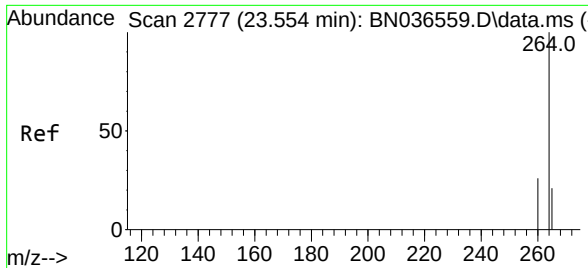
Tgt Ion:244 Resp: 5588
 Ion Ratio Lower Upper
 244 100
 212 11.0 9.6 14.4
 122 17.4 13.9 20.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.054 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. -0.000 min
 Lab File: BN036569.D
 Acq: 10 Mar 2025 19:38

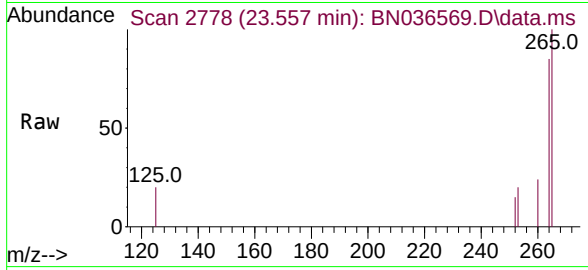
Tgt Ion:149 Resp: 522
 Ion Ratio Lower Upper
 149 100
 167 26.6 20.7 31.1
 279 5.0 3.6 5.4



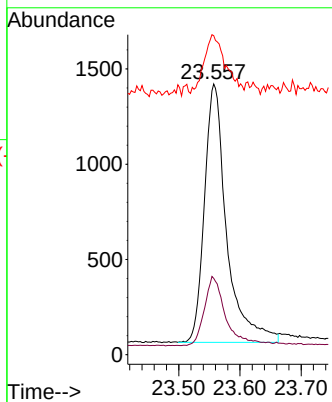
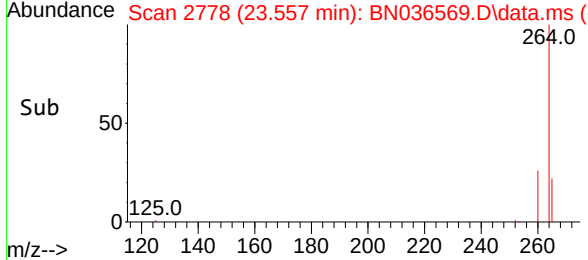


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.557 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN036569.D
 Acq: 10 Mar 2025 19:38

Instrument :
 BNA_N
 ClientSampleId :
 DUP01-20250306



Tgt Ion:	264	Resp:	3415
Ion Ratio	Lower	Upper	
264	100		
260	28.2	22.6	33.8
265	117.9	88.1	132.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036572.D
 Acq On : 10 Mar 2025 21:26
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 11 00:53:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

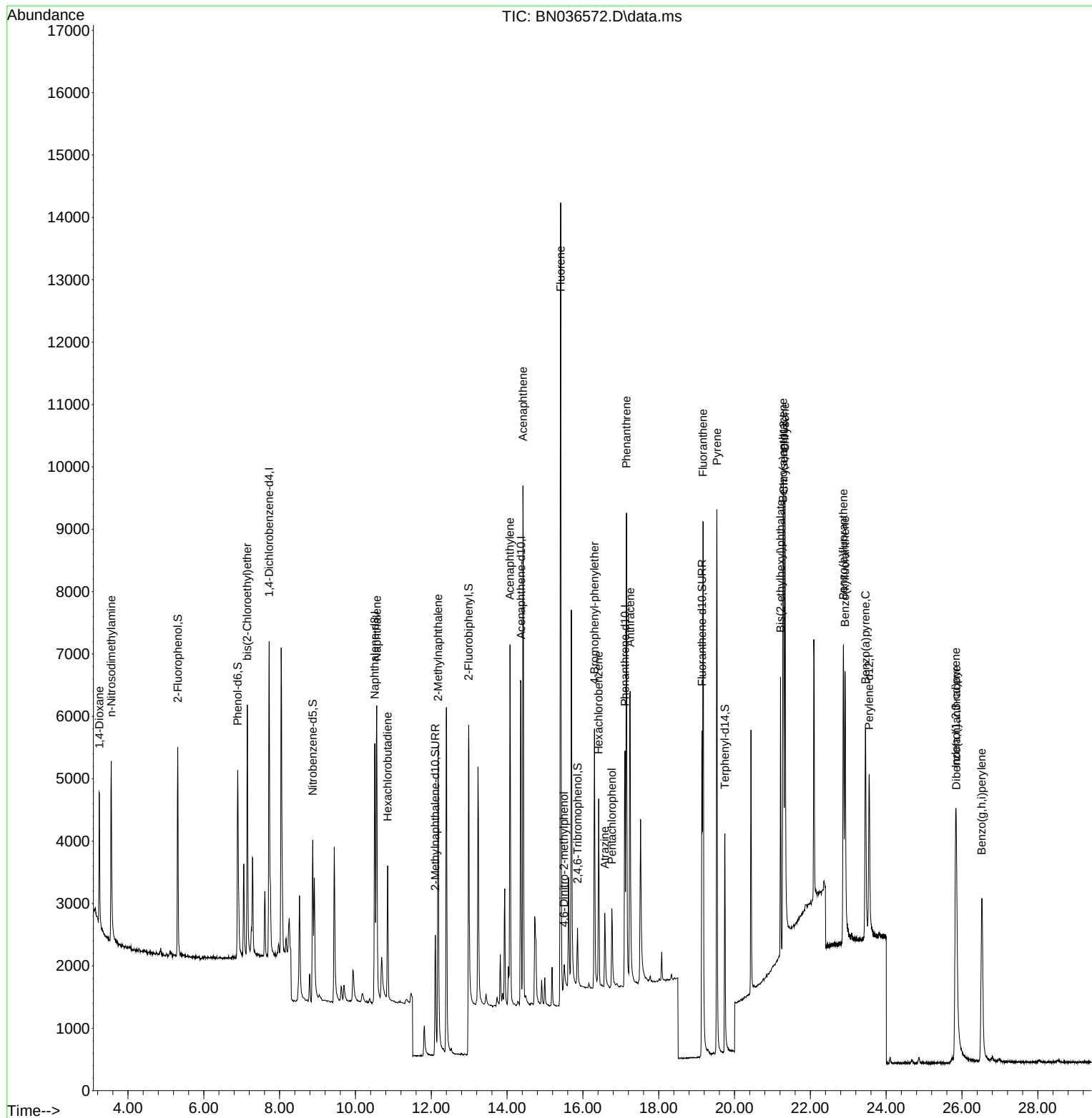
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2507	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5839	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3266	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6207	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4352	0.400	ng	0.00
35) Perylene-d12	23.552	264	4016	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2426	0.415	ng	0.00
5) Phenol-d6	6.894	99	2788	0.386	ng	0.00
8) Nitrobenzene-d5	8.875	82	2365	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3417	0.393	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	560	0.378	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7865	0.414	ng	0.00
27) Fluoranthene-d10	19.141	212	6646	0.418	ng	0.00
31) Terphenyl-d14	19.745	244	4195	0.402	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1303	0.469	ng	96
3) n-Nitrosodimethylamine	3.557	42	2276	0.405	ng	94
6) bis(2-Chloroethyl)ether	7.147	93	2938	0.394	ng	99
9) Naphthalene	10.562	128	6870	0.400	ng	100
10) Hexachlorobutadiene	10.851	225	1723	0.426	ng	# 99
12) 2-Methylnaphthalene	12.182	142	4313	0.395	ng	99
16) Acenaphthylene	14.078	152	6346	0.412	ng	100
17) Acenaphthene	14.420	154	4153	0.412	ng	99
18) Fluorene	15.414	166	5592	0.410	ng	99
20) 4,6-Dinitro-2-methylph...	15.500	198	439	0.423	ng	99
21) 4-Bromophenyl-phenylether	16.305	248	1638	0.421	ng	94
22) Hexachlorobenzene	16.416	284	2099	0.447	ng	98
23) Atrazine	16.578	200	1291	0.414	ng	98
24) Pentachlorophenol	16.764	266	802	0.375	ng	100
25) Phenanthrene	17.149	178	7873	0.423	ng	99
26) Anthracene	17.248	178	6961	0.414	ng	99
28) Fluoranthene	19.169	202	8718	0.417	ng	100
30) Pyrene	19.536	202	8800	0.414	ng	100
32) Benzo(a)anthracene	21.277	228	5953	0.393	ng	98
33) Chrysene	21.331	228	7391	0.447	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3997	0.371	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	6596	0.455	ng	98
37) Benzo(b)fluoranthene	22.873	252	6161	0.422	ng	98
38) Benzo(k)fluoranthene	22.917	252	6498	0.424	ng	97
39) Benzo(a)pyrene	23.455	252	5508	0.448	ng	97
40) Dibenzo(a,h)anthracene	25.852	278	5154	0.457	ng	95
41) Benzo(g,h,i)perylene	26.522	276	5982	0.463	ng	98

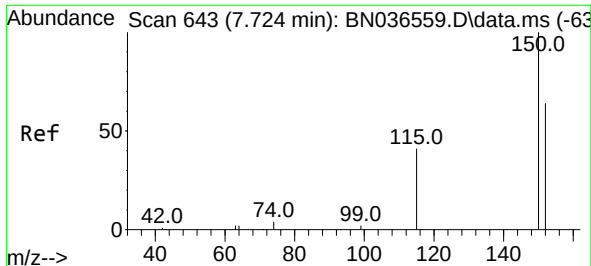
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 10 Mar 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

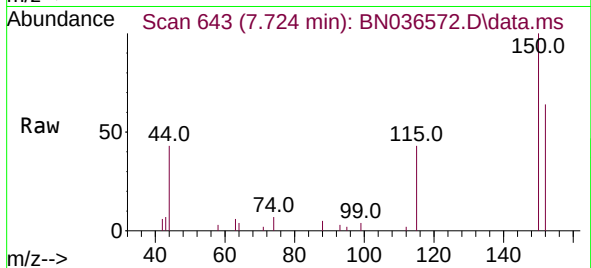
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



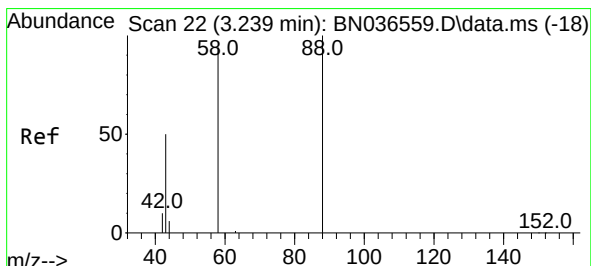
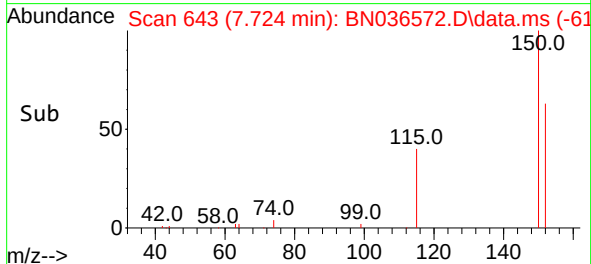
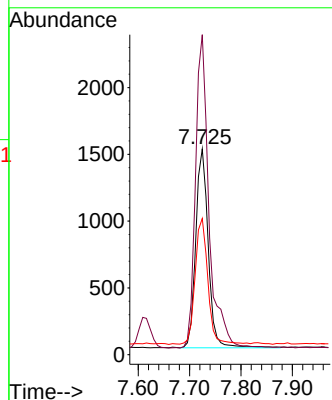


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

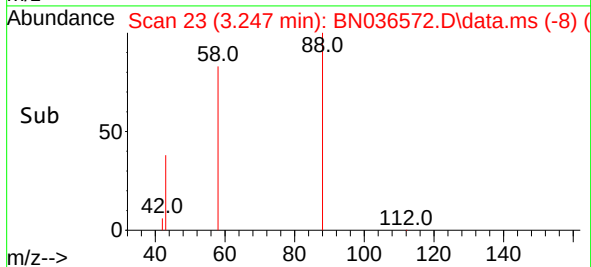
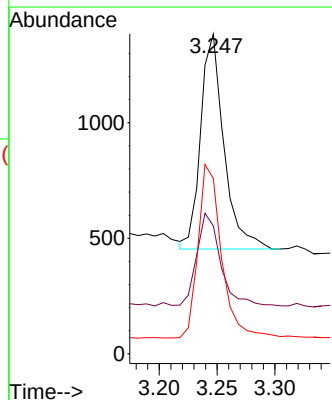
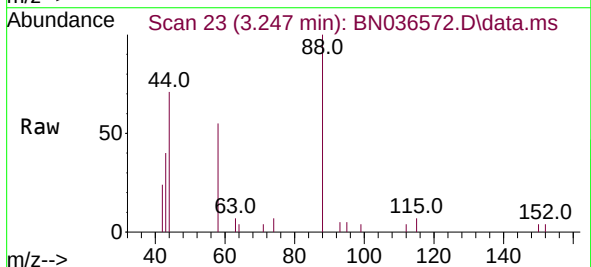


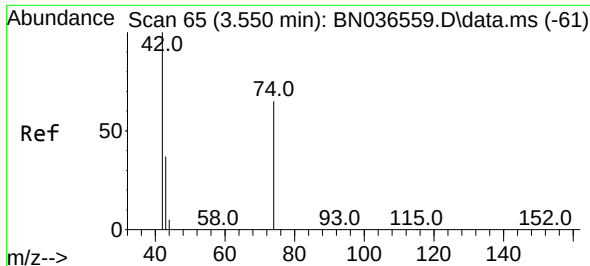
Tgt Ion:152 Resp: 2507
 Ion Ratio Lower Upper
 152 100
 150 155.5 123.7 185.5
 115 66.2 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.469 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.008 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Tgt Ion: 88 Resp: 1303
 Ion Ratio Lower Upper
 88 100
 43 44.7 37.8 56.8
 58 81.1 67.4 101.2

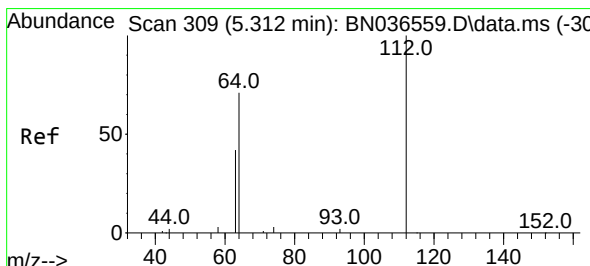
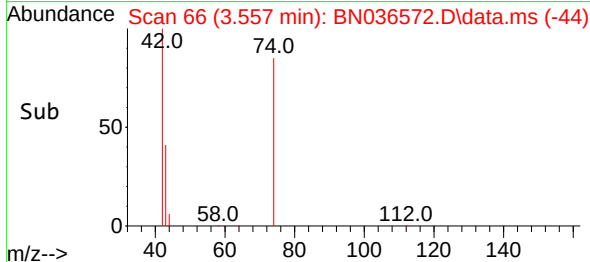
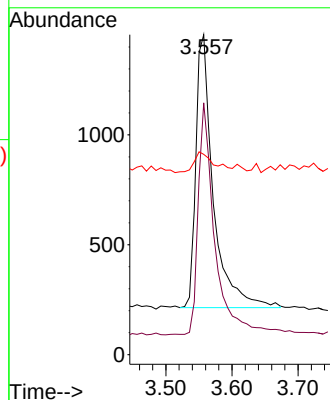
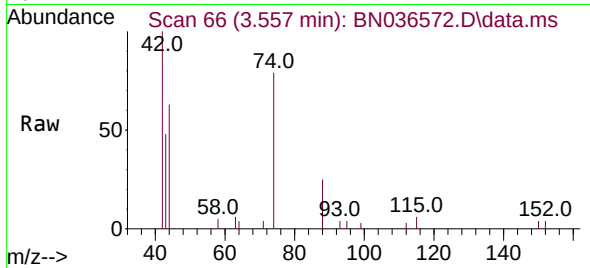




#3
 n-Nitrosodimethylamine
 Concen: 0.405 ng
 RT: 3.557 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

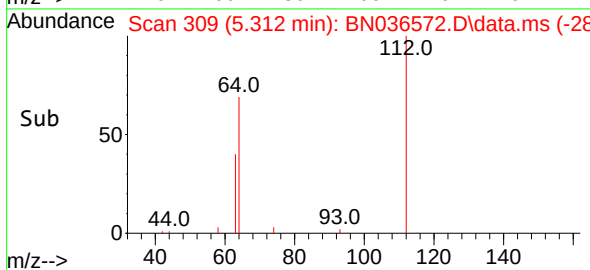
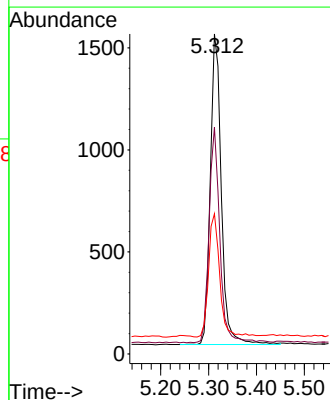
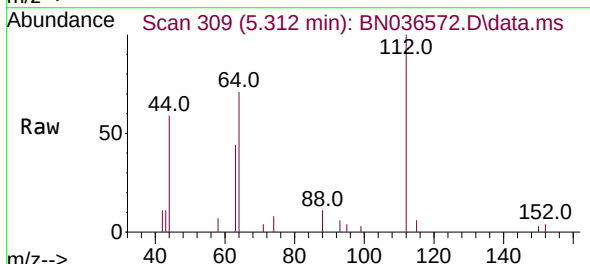
Instrument :
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 ClientSampleId :
 SSTDCCC0.4EC

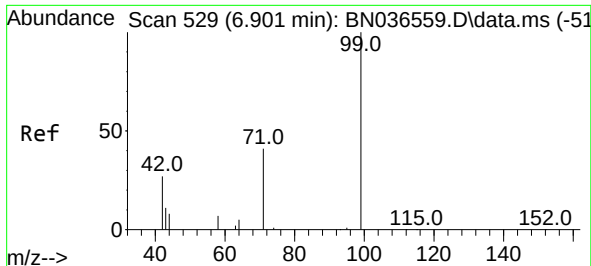
Tgt Ion: 42 Resp: 2276
 Ion Ratio Lower Upper
 42 100
 74 81.4 60.6 90.8
 44 8.8 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.415 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Tgt Ion: 112 Resp: 2426
 Ion Ratio Lower Upper
 112 100
 64 68.0 53.1 79.7
 63 39.7 31.8 47.8

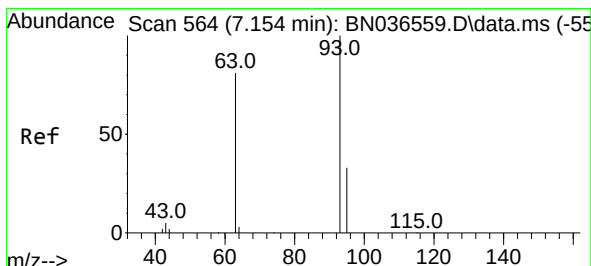
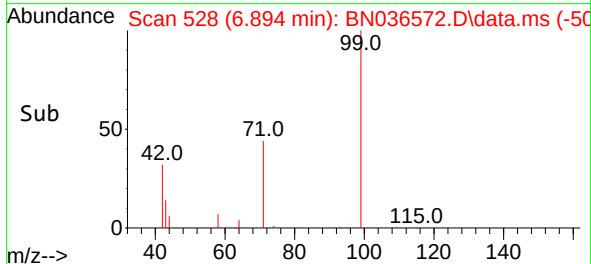
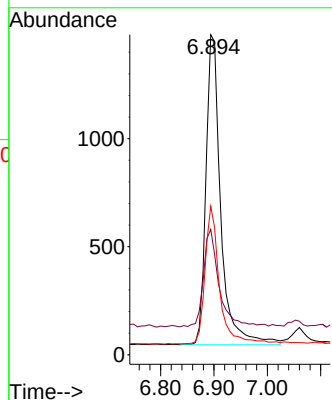
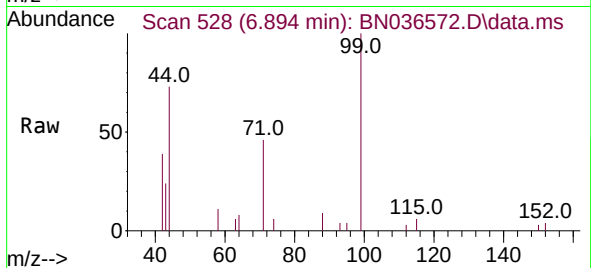




#5
Phenol-d6
Concen: 0.386 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

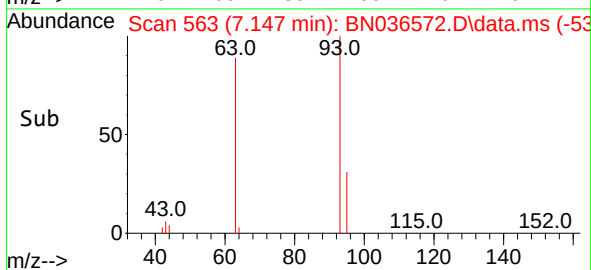
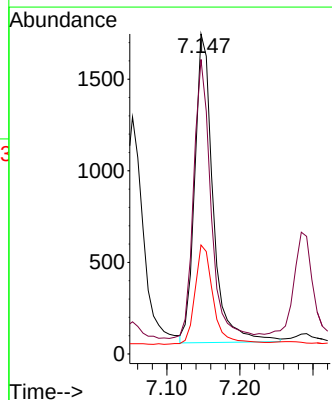
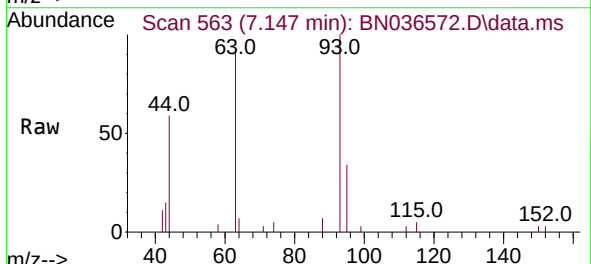
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

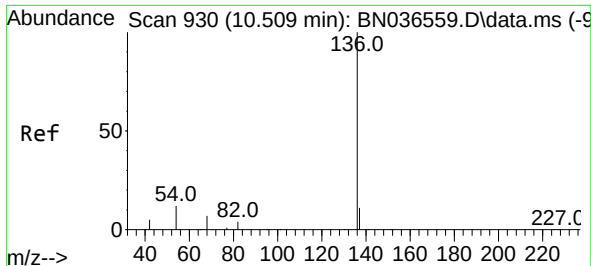
Tgt Ion: 99 Resp: 2788
Ion Ratio Lower Upper
99 100
42 33.0 26.5 39.7
71 42.7 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion: 93 Resp: 2938
Ion Ratio Lower Upper
93 100
63 85.4 67.7 101.5
95 32.1 25.6 38.4

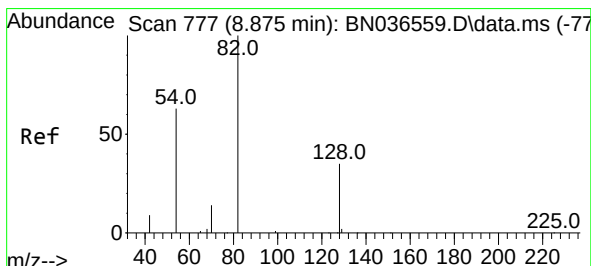
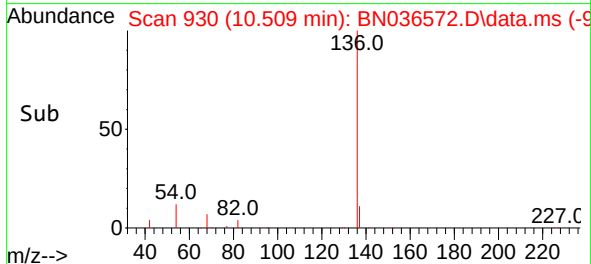
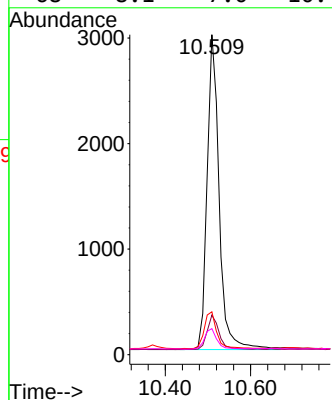
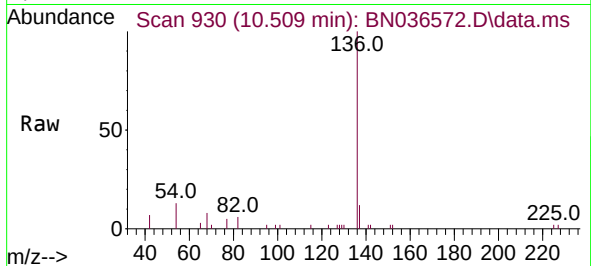




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

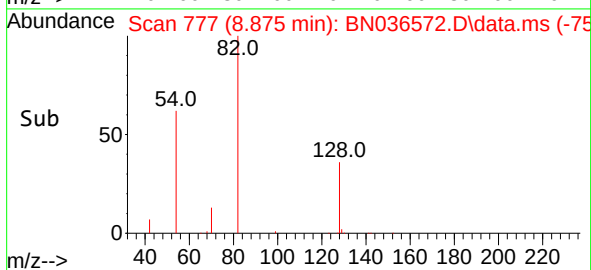
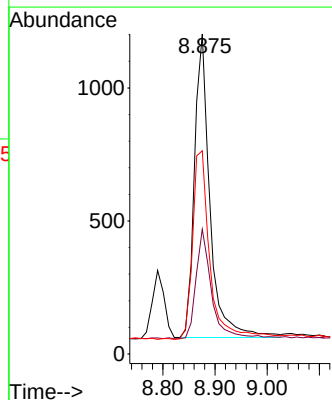
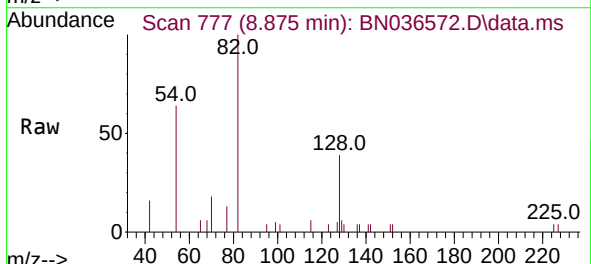
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

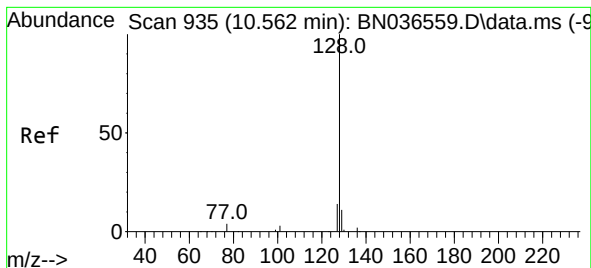
Tgt Ion:	136	Resp:	5839
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.4	11.5	17.3
68	8.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:	82	Resp:	2365
Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	63.5	52.2	78.4





#9

Naphthalene

Concen: 0.400 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

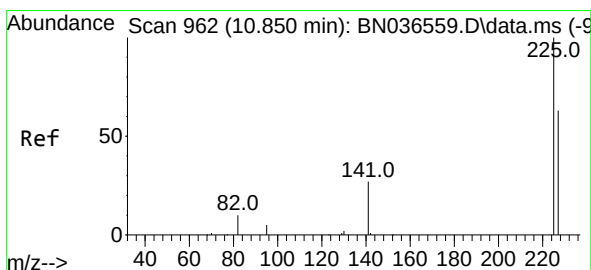
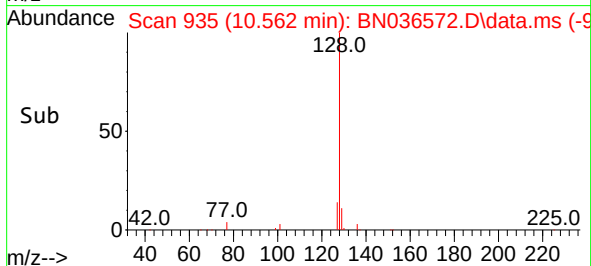
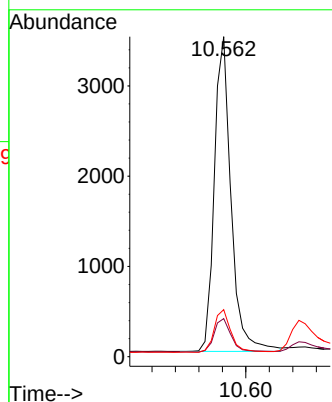
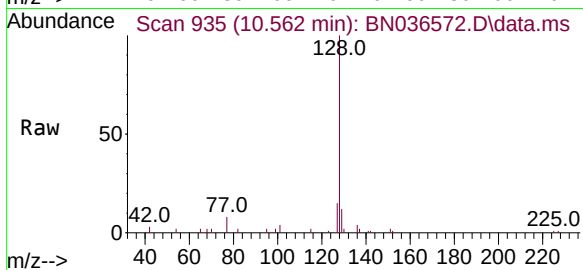
Tgt Ion:128 Resp: 6870

Ion Ratio Lower Upper

128 100

129 11.9 9.8 14.6

127 14.7 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.426 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036572.D

Acq: 10 Mar 2025 21:26

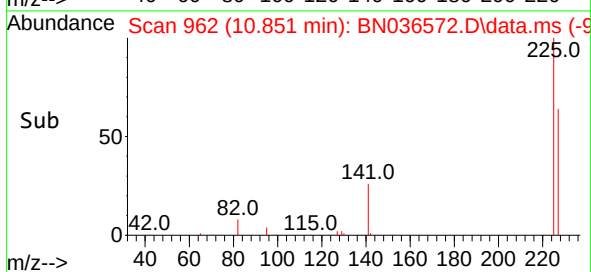
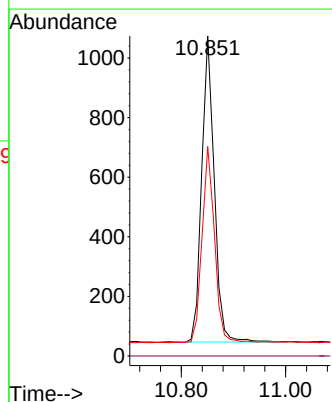
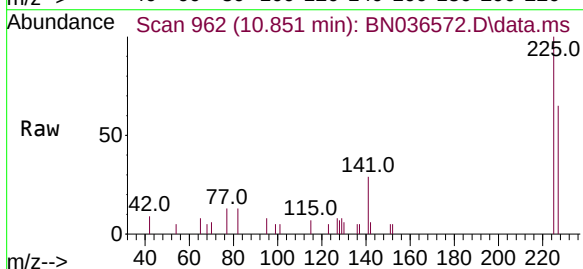
Tgt Ion:225 Resp: 1723

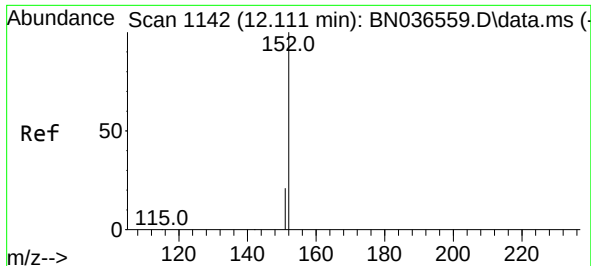
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 51.8 77.8

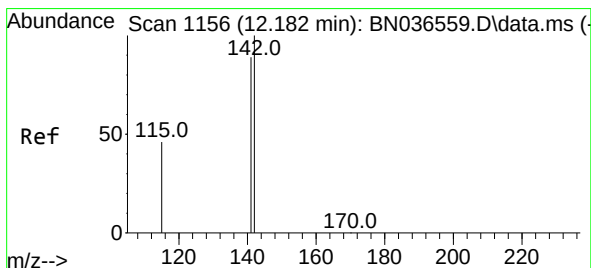
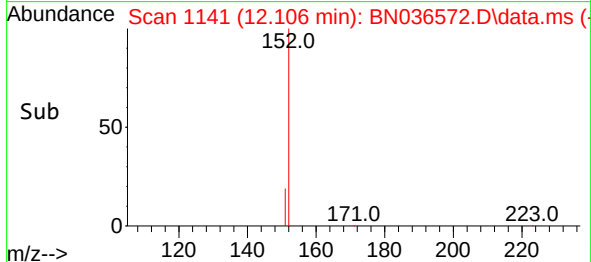
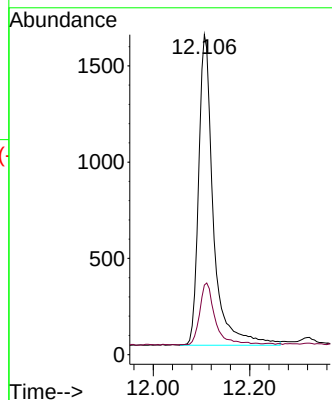
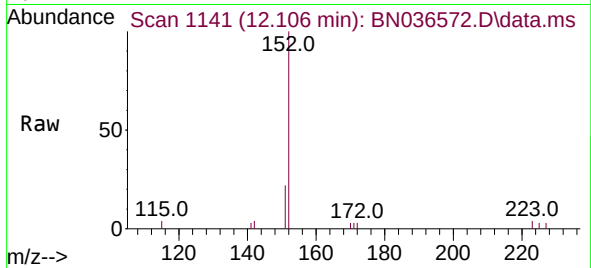




#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

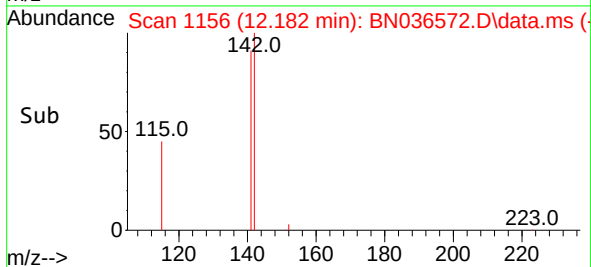
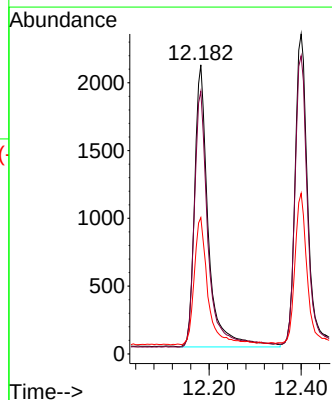
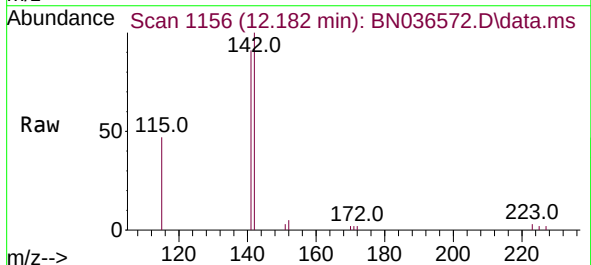
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

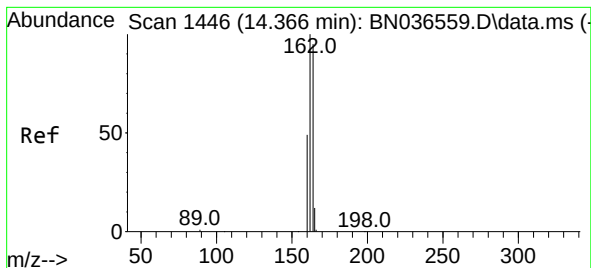
Tgt Ion:152 Resp: 3417
Ion Ratio Lower Upper
152 100
151 20.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.395 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:142 Resp: 4313
Ion Ratio Lower Upper
142 100
141 90.8 71.7 107.5
115 47.1 38.3 57.5

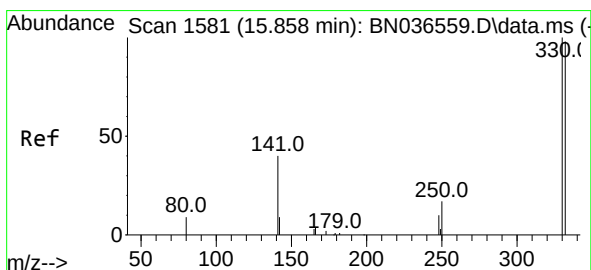
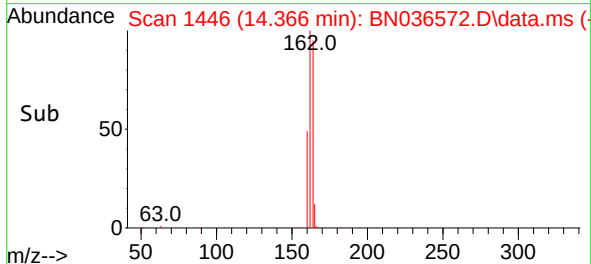
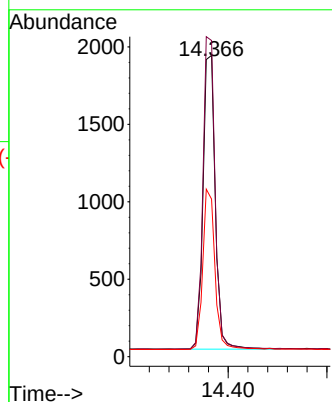
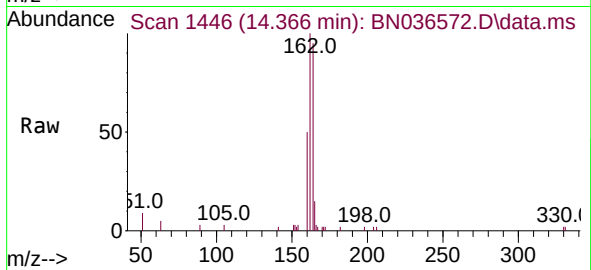




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

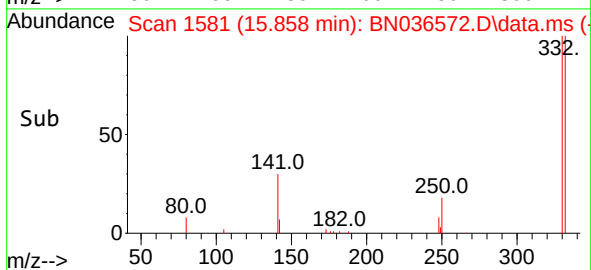
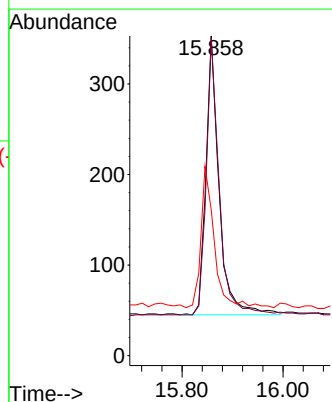
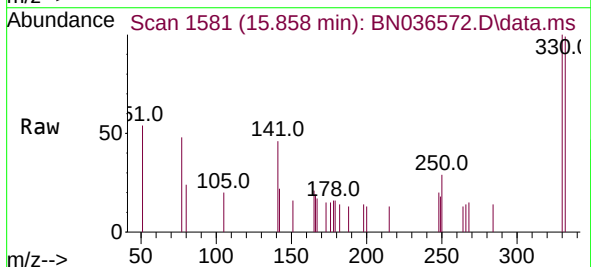
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

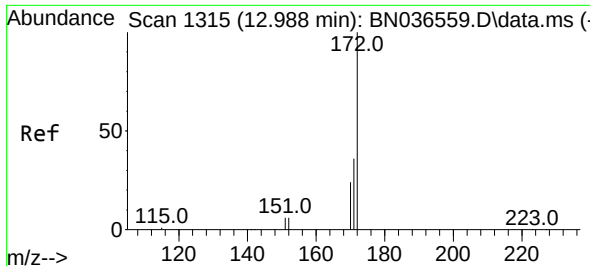
Tgt Ion:164 Resp: 3266
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 52.3 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:330 Resp: 560
Ion Ratio Lower Upper
330 100
332 97.7 75.2 112.8
141 51.2 43.4 65.2

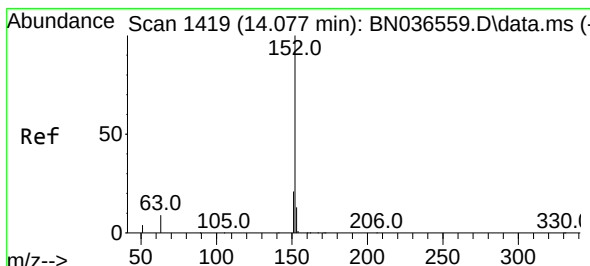
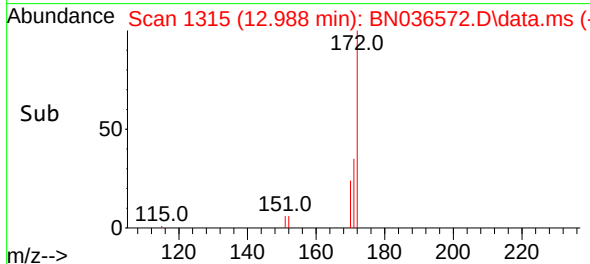
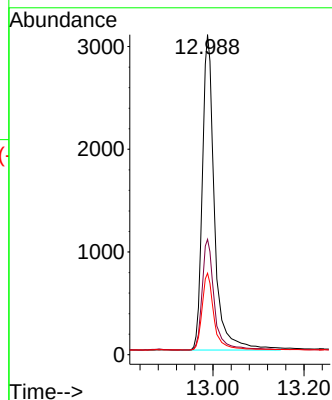
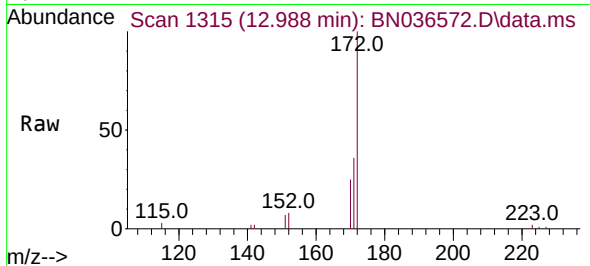




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

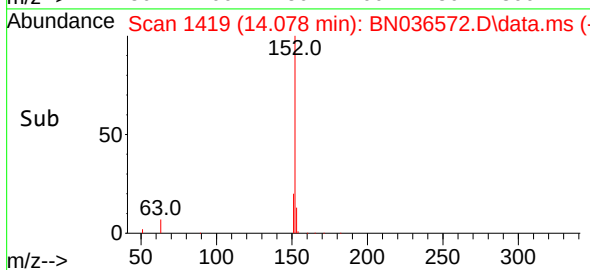
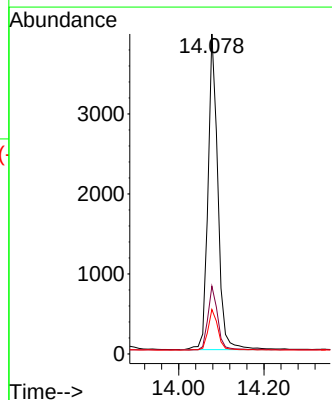
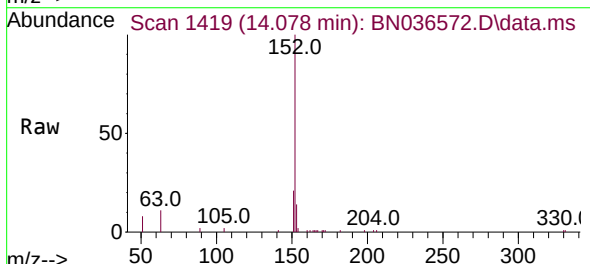
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

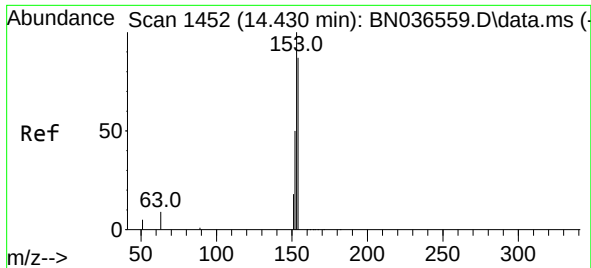
Tgt Ion:	172	Resp:	7865
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.5	44.3
170	25.5	20.2	30.4



#16
Acenaphthylene
Concen: 0.412 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:	152	Resp:	6346
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.4
153	13.1	10.6	15.8

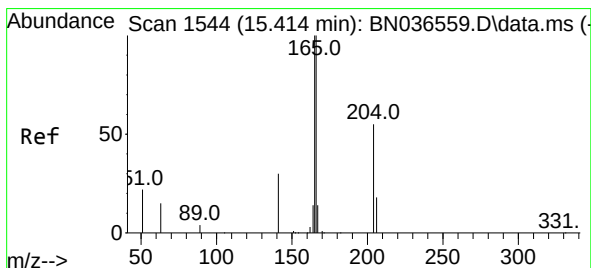
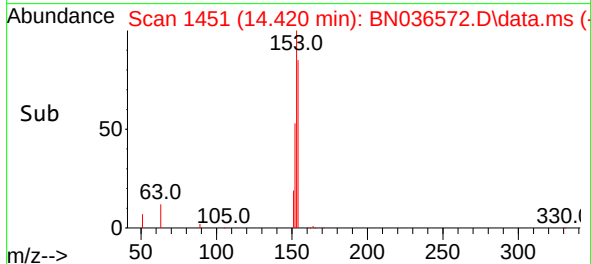
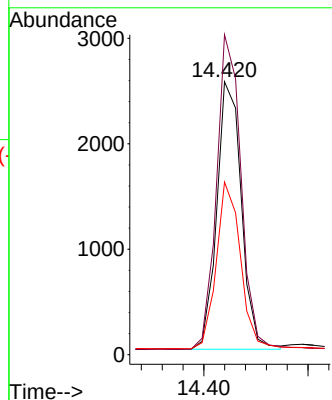
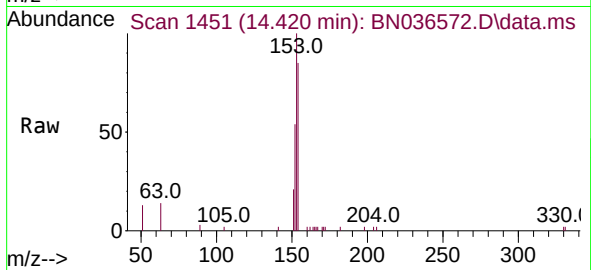




#17
Acenaphthene
Concen: 0.412 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.010 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

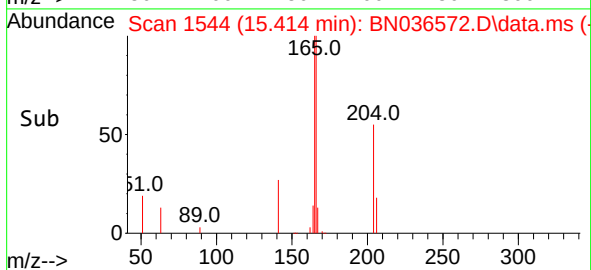
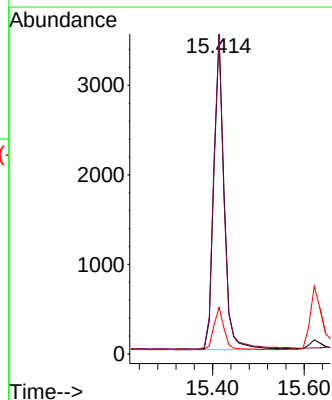
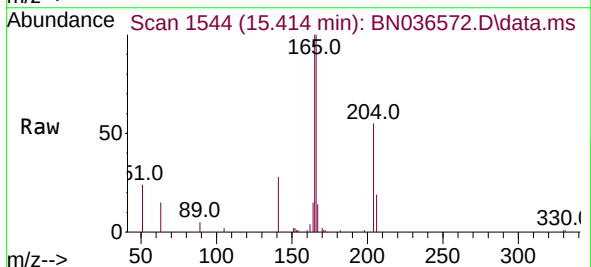
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

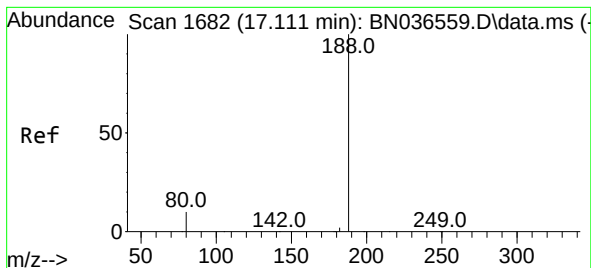
Tgt Ion:154	Resp:	4153
Ion Ratio	Lower	Upper
154	100	
153	118.3	94.1 141.1
152	61.8	49.8 74.6



#18
Fluorene
Concen: 0.410 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:166	Resp:	5592
Ion Ratio	Lower	Upper
166	100	
165	100.3	79.8 119.8
167	13.7	10.6 15.8

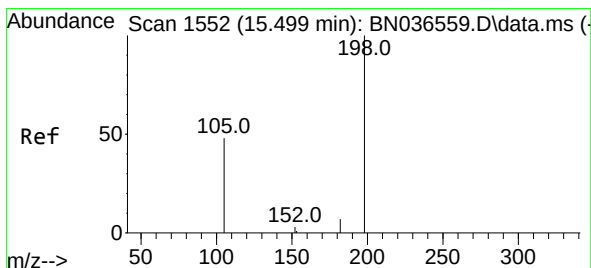
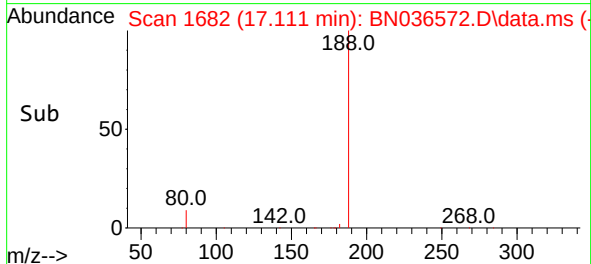
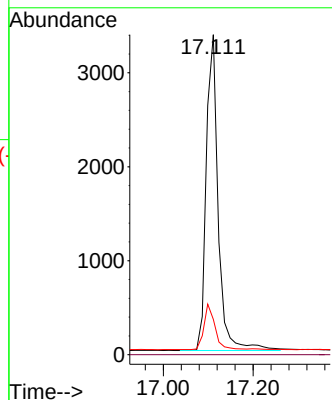
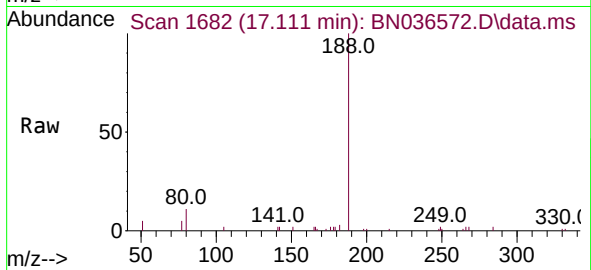




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

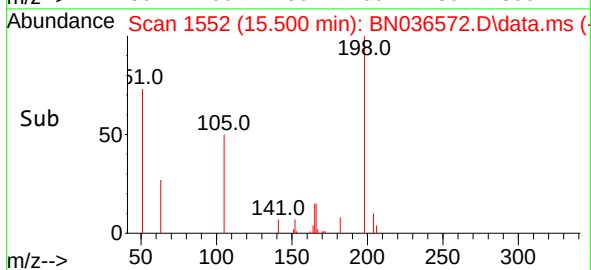
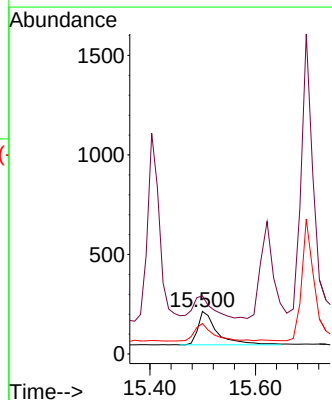
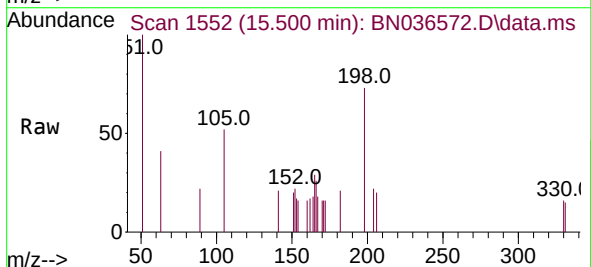
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

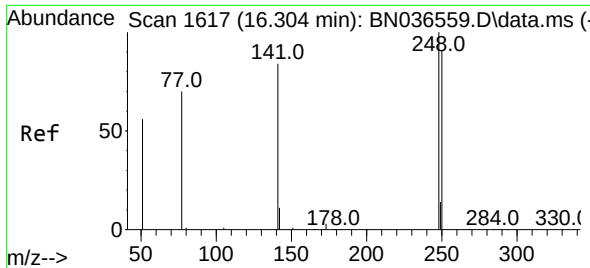
Tgt Ion:188 Resp: 6207
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.500 min Scan# 1552
Delta R.T. 0.001 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:198 Resp: 439
Ion Ratio Lower Upper
198 100
51 136.4 107.9 161.9
105 71.5 56.2 84.2

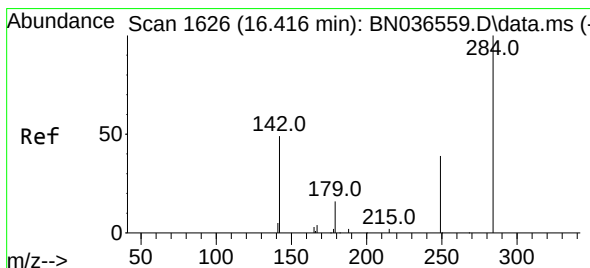
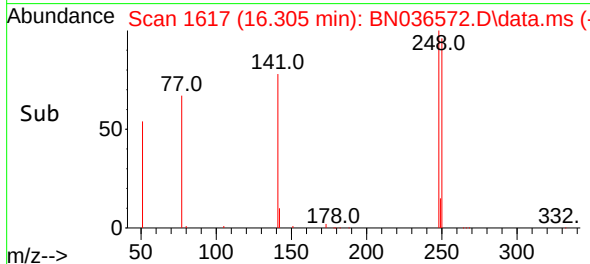
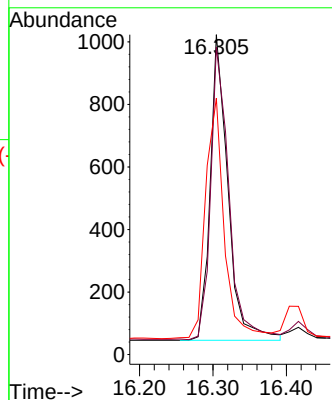
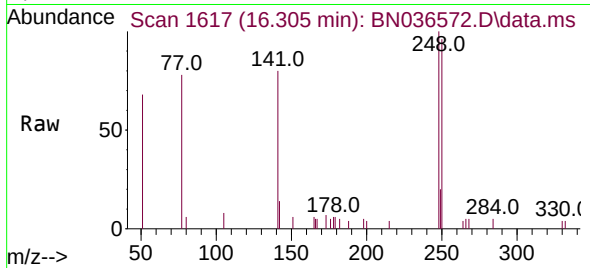




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

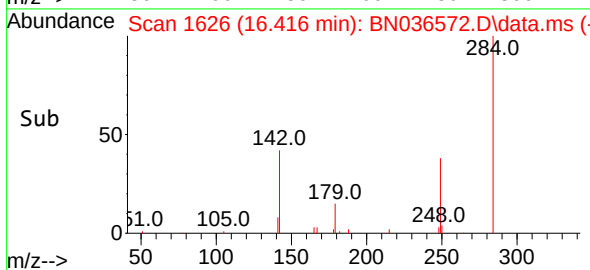
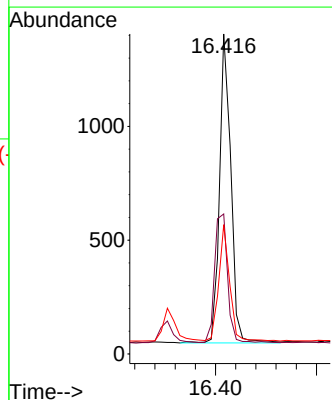
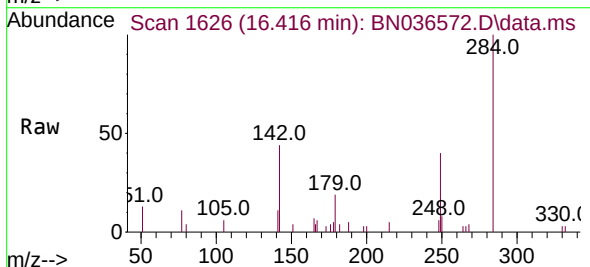
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

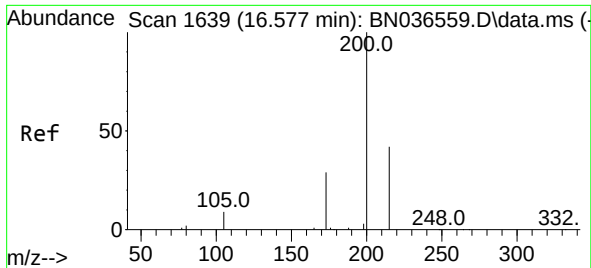
Tgt Ion:248	Resp:	1638
Ion Ratio	Lower	Upper
248	100	
250	96.1	73.0 109.6
141	80.2	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.447 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:284	Resp:	2099
Ion Ratio	Lower	Upper
284	100	
142	47.9	37.0 55.4
249	36.2	28.1 42.1

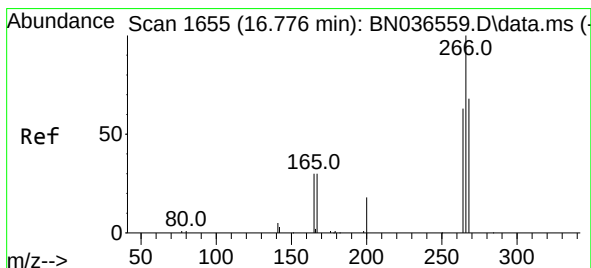
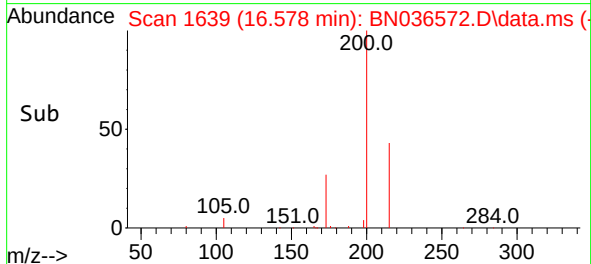
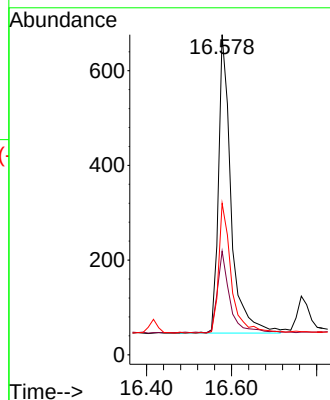
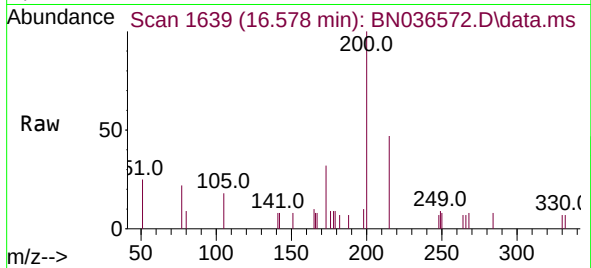




#23
 Atrazine
 Concen: 0.414 ng
 RT: 16.578 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

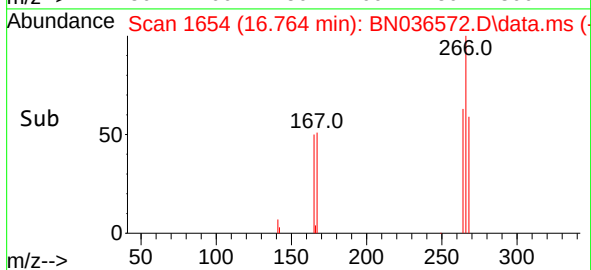
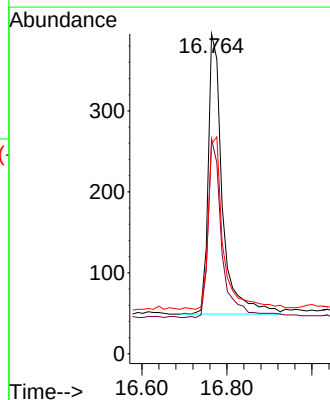
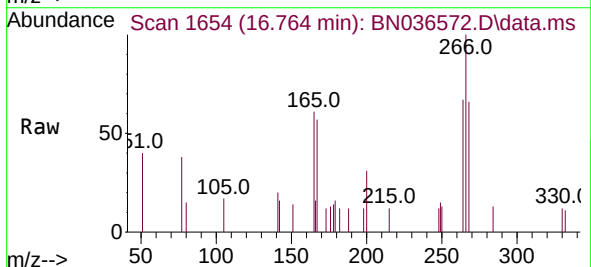
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

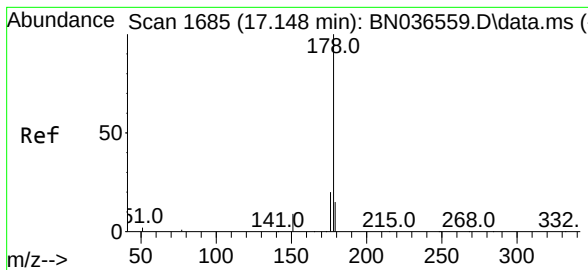
Tgt Ion:	200	Resp:	1291
Ion Ratio	Lower	Upper	
200	100		
173	32.4	27.3	40.9
215	47.3	36.8	55.2



#24
 Pentachlorophenol
 Concen: 0.375 ng
 RT: 16.764 min Scan# 1654
 Delta R.T. -0.012 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Tgt Ion:	266	Resp:	802
Ion Ratio	Lower	Upper	
266	100		
264	62.5	49.6	74.4
268	63.7	50.9	76.3

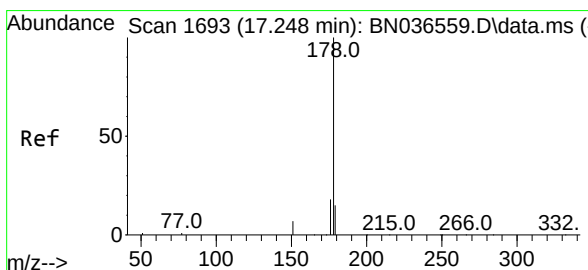
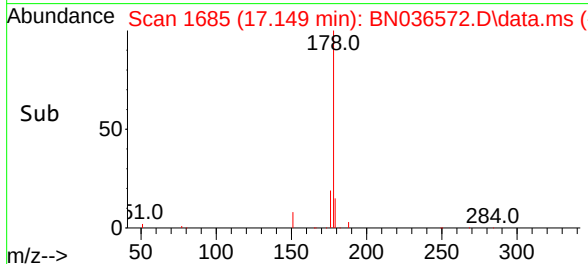
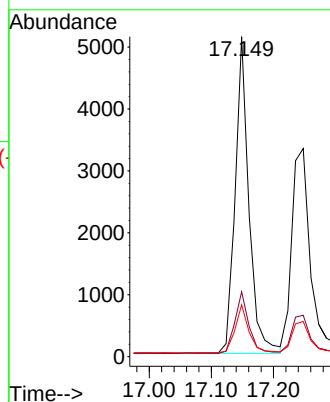
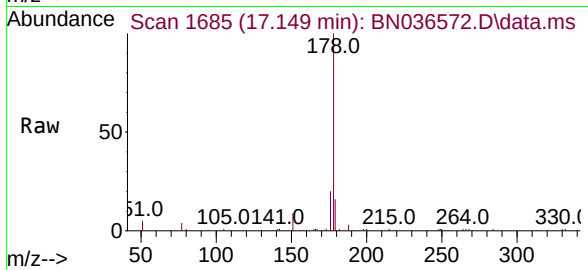




#25
Phenanthrene
Concen: 0.423 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

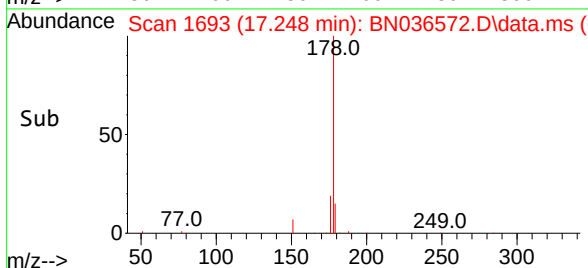
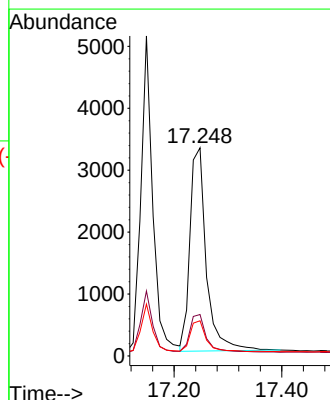
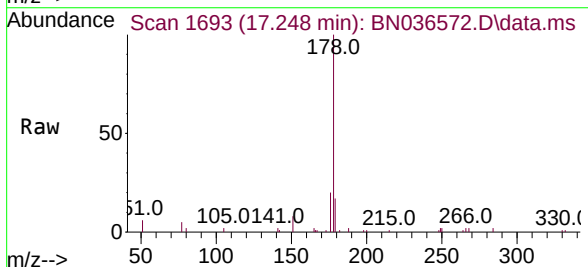
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

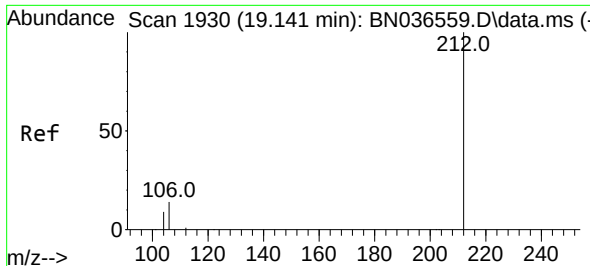
Tgt Ion:178 Resp: 7873
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.414 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:178 Resp: 6961
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.3 12.6 18.8

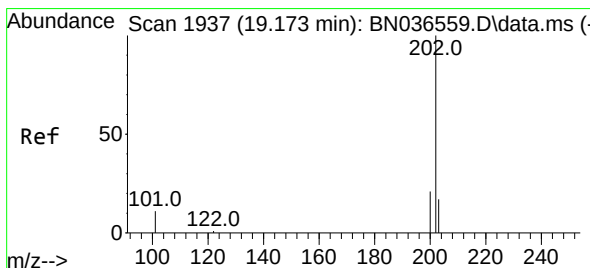
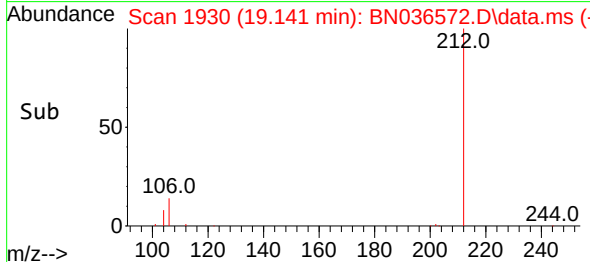
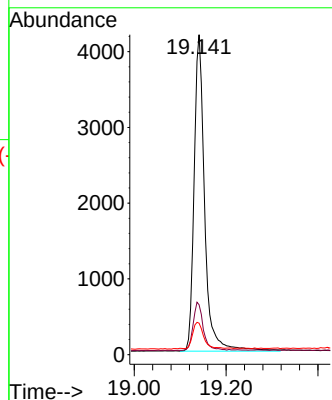
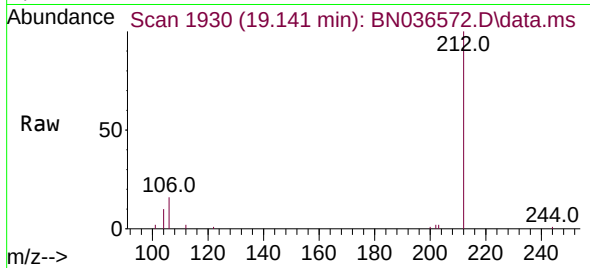




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

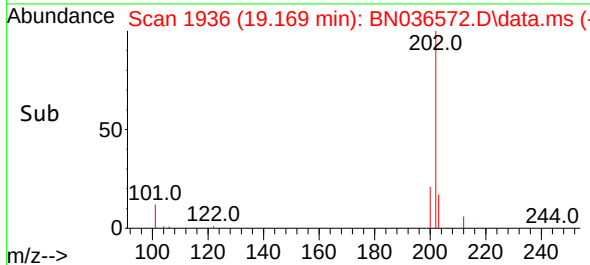
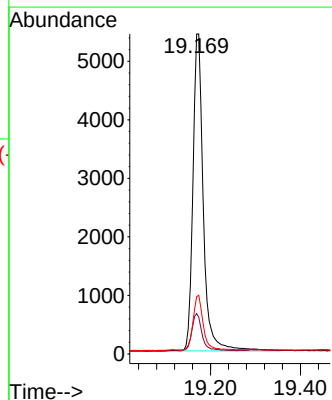
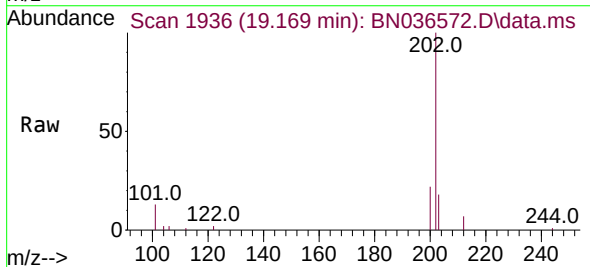
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

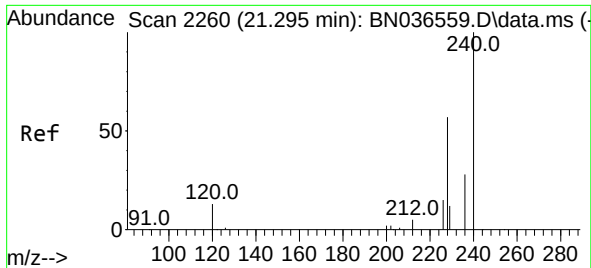
Tgt Ion:212 Resp: 6646
Ion Ratio Lower Upper
212 100
106 14.8 11.8 17.6
104 9.1 7.3 10.9



#28
Fluoranthene
Concen: 0.417 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:202 Resp: 8718
Ion Ratio Lower Upper
202 100
101 11.6 9.4 14.0
203 16.8 13.5 20.3

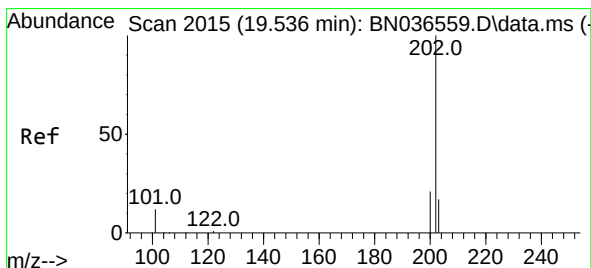
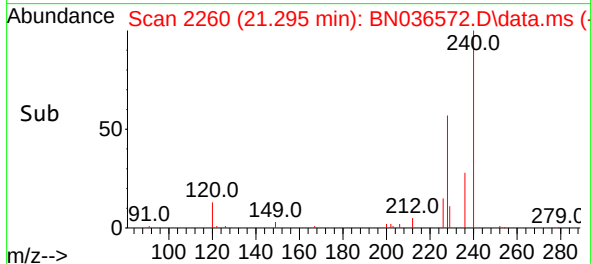
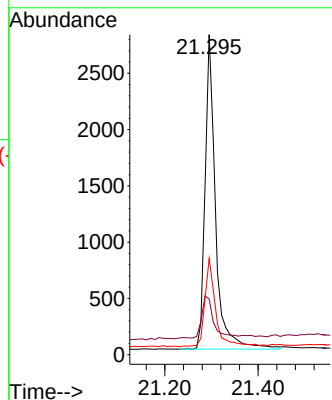
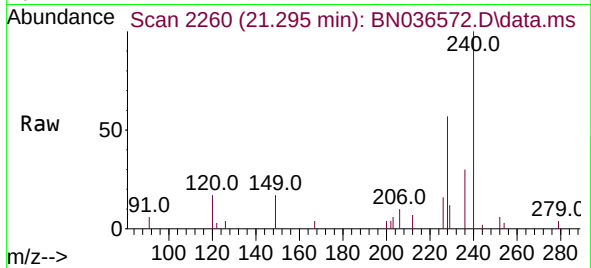




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

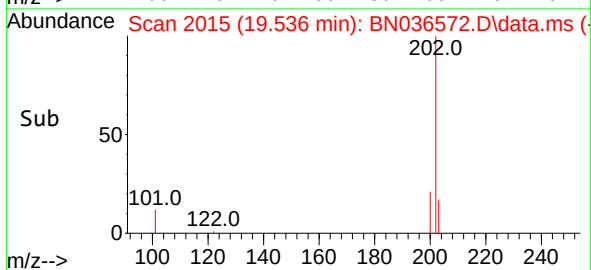
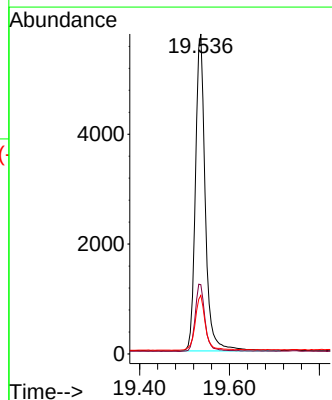
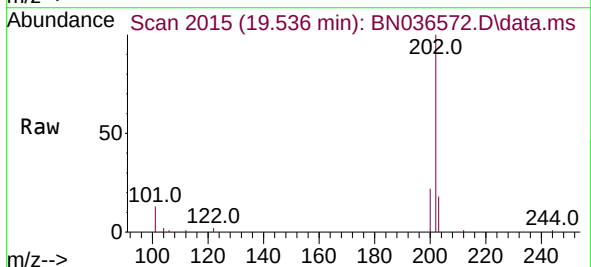
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

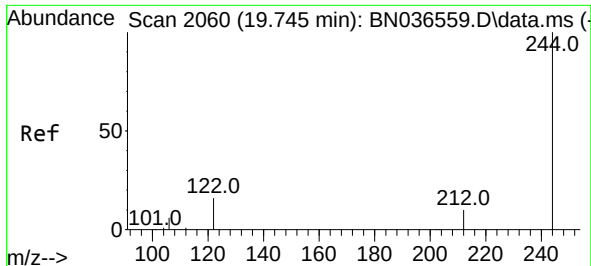
Tgt Ion:240 Resp: 4352
Ion Ratio Lower Upper
240 100
120 17.4 14.6 22.0
236 30.1 24.1 36.1



#30
Pyrene
Concen: 0.414 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

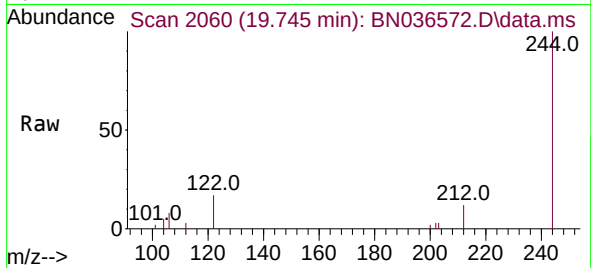
Tgt Ion:202 Resp: 8800
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.6 14.1 21.1



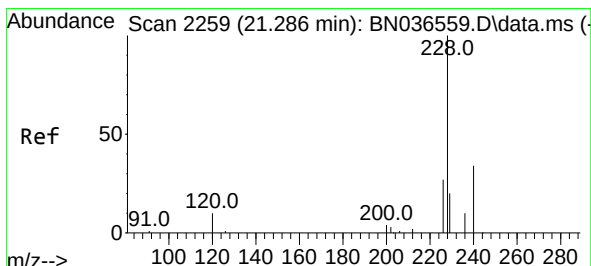
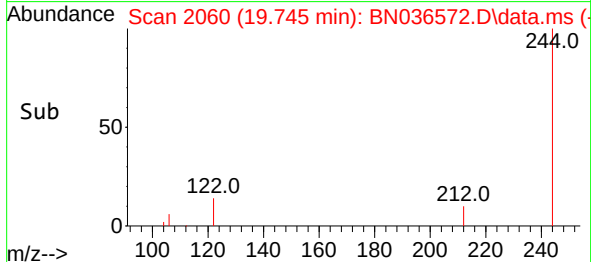
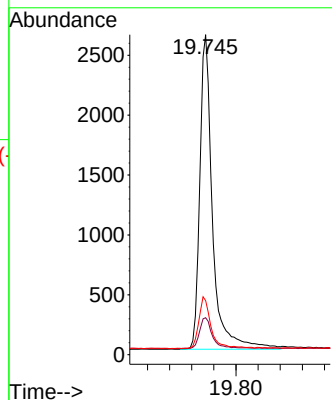


#31
 Terphenyl-d14
 Concen: 0.402 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

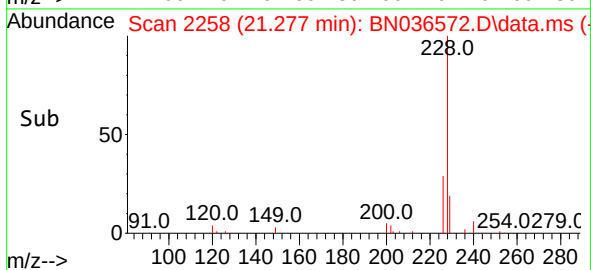
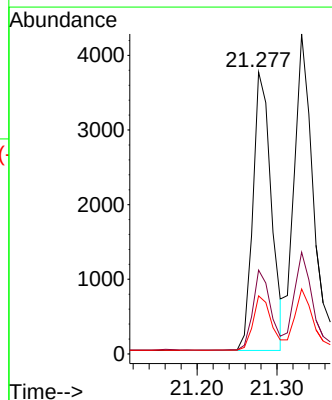
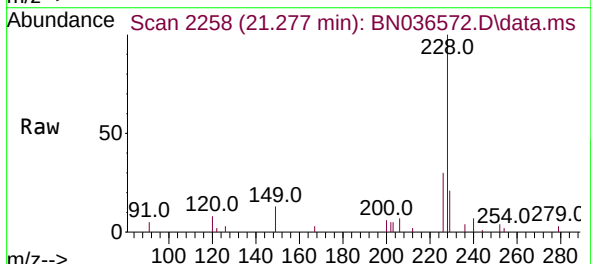


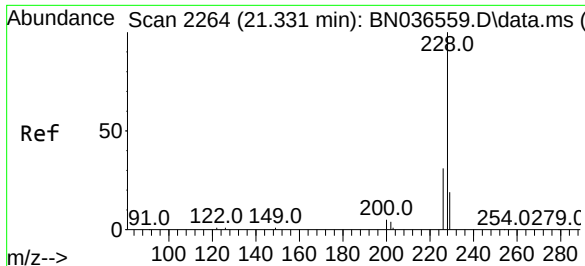
Tgt Ion:244 Resp: 4195
 Ion Ratio Lower Upper
 244 100
 212 11.6 9.6 14.4
 122 16.9 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.393 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. -0.009 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Tgt Ion:228 Resp: 5953
 Ion Ratio Lower Upper
 228 100
 226 29.7 22.5 33.7
 229 20.6 16.6 25.0

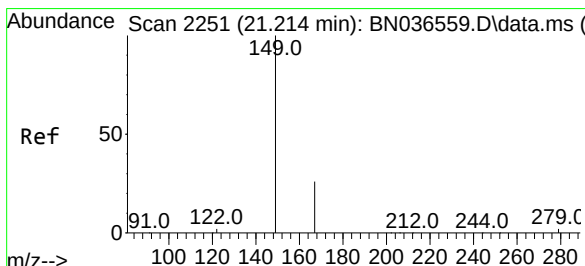
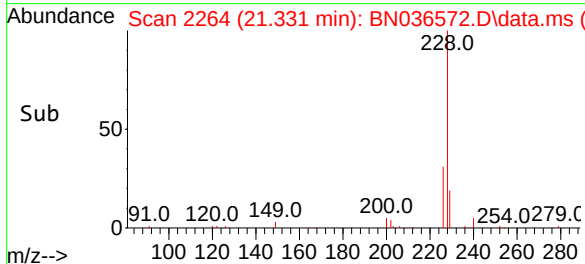
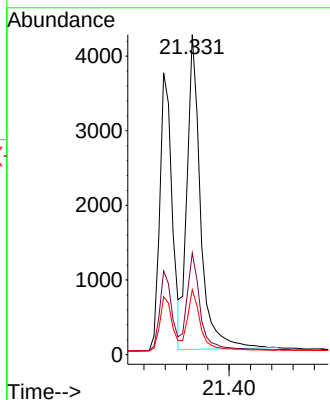
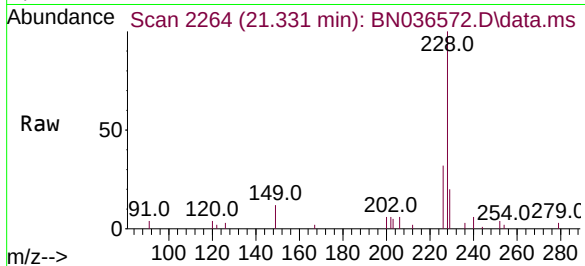




#33
Chrysene
Concen: 0.447 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

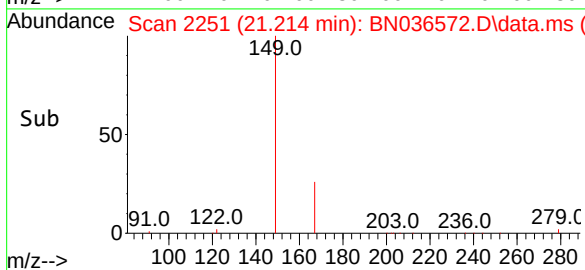
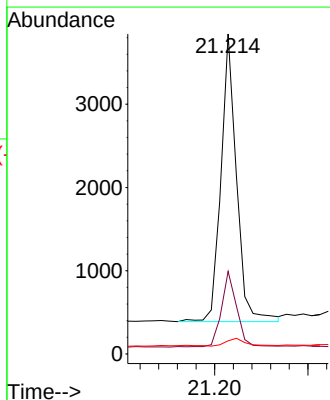
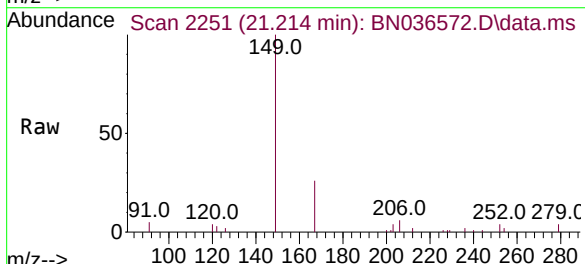
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

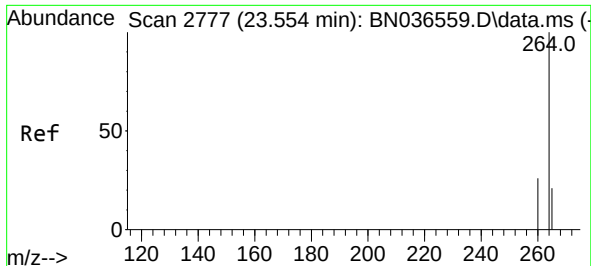
Tgt Ion:228 Resp: 7391
Ion Ratio Lower Upper
228 100
226 31.8 25.3 37.9
229 20.3 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.371 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:149 Resp: 3997
Ion Ratio Lower Upper
149 100
167 25.6 20.7 31.1
279 3.4 3.6 5.4#

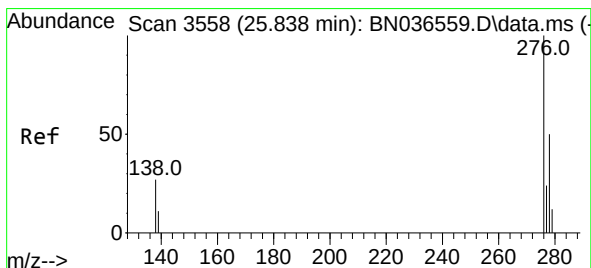
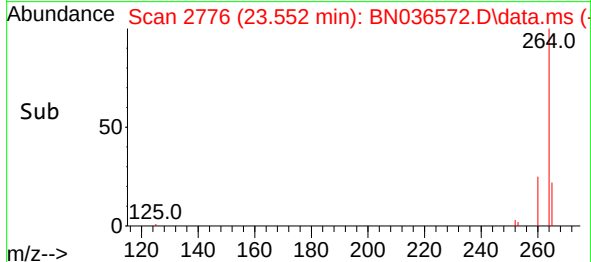
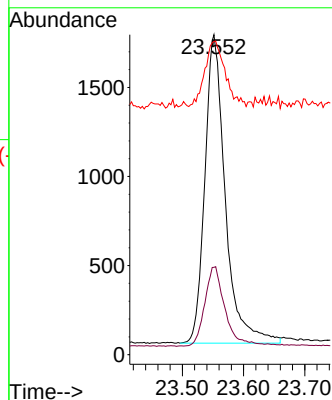
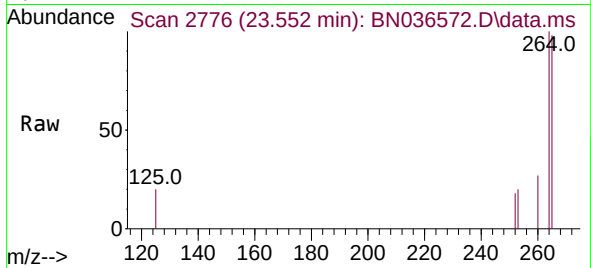




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

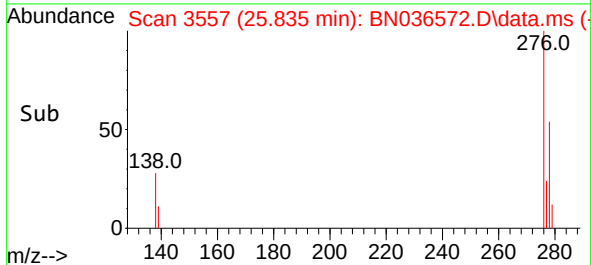
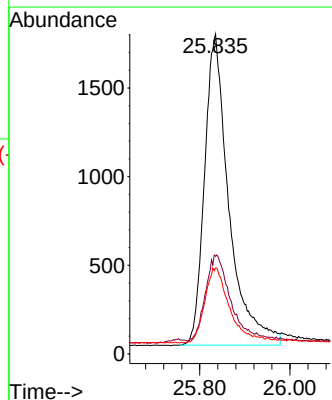
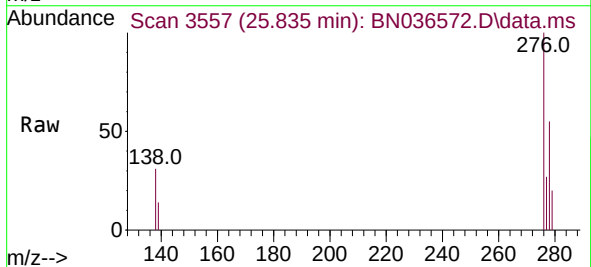
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

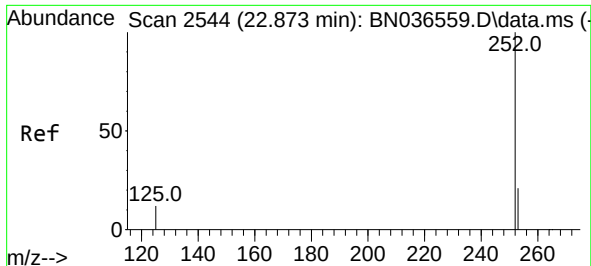
Tgt Ion:264 Resp: 4016
Ion Ratio Lower Upper
264 100
260 27.3 22.6 33.8
265 97.9 88.1 132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.455 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

Tgt Ion:276 Resp: 6596
Ion Ratio Lower Upper
276 100
138 27.7 23.4 35.2
277 24.6 20.0 30.0

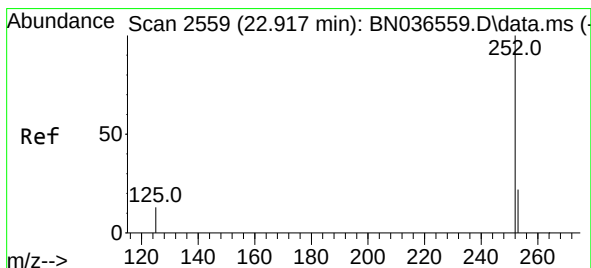
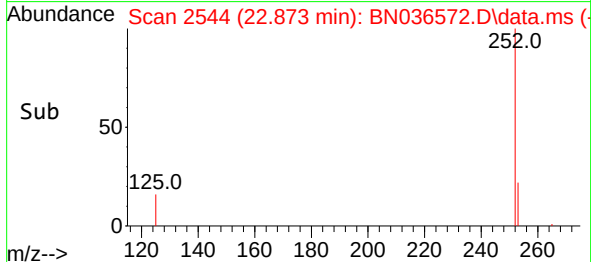
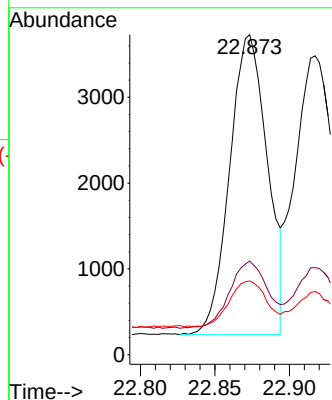
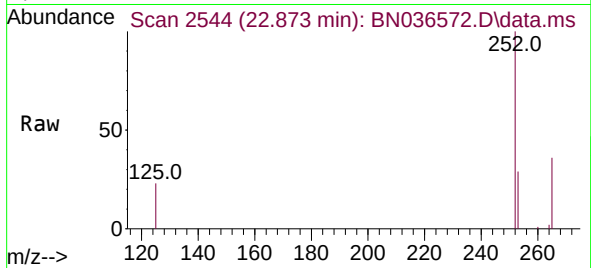




#37
Benzo(b)fluoranthene
Concen: 0.422 ng
RT: 22.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

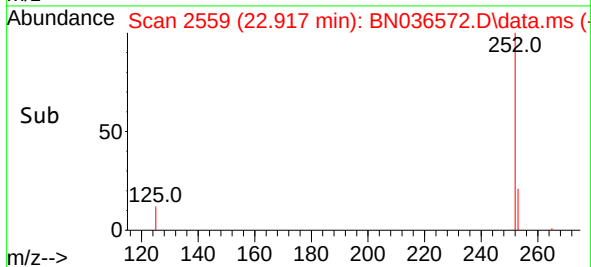
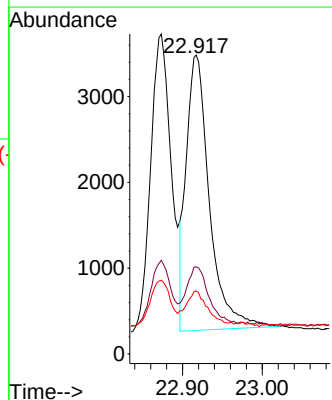
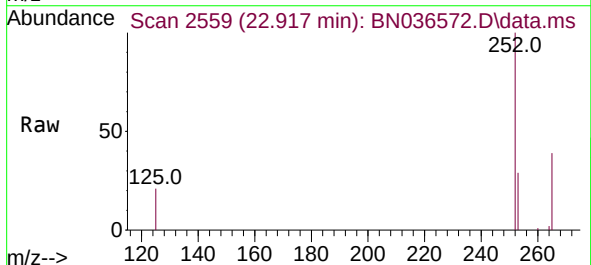
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

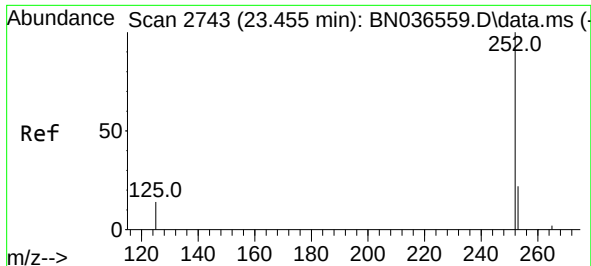
Tgt Ion:252 Resp: 6161
Ion Ratio Lower Upper
252 100
253 29.2 23.9 35.9
125 23.0 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

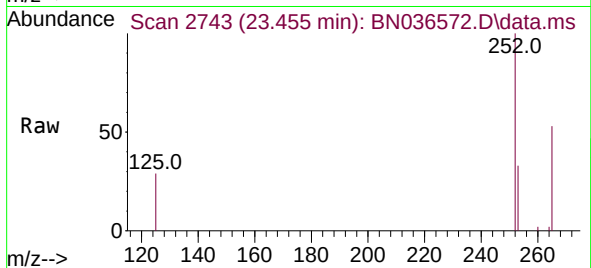
Tgt Ion:252 Resp: 6498
Ion Ratio Lower Upper
252 100
253 29.1 24.6 36.8
125 21.1 17.8 26.8



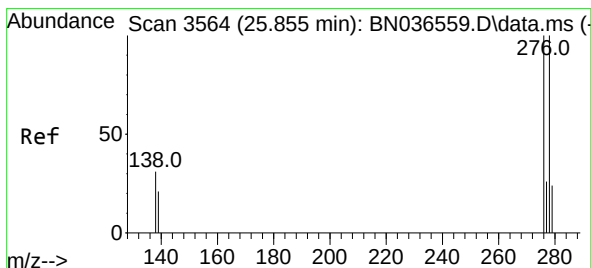
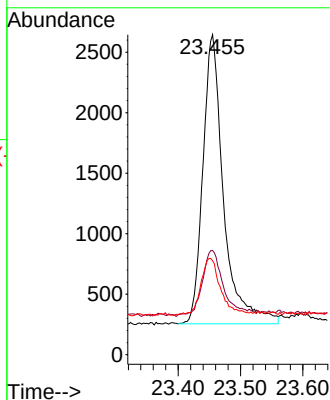
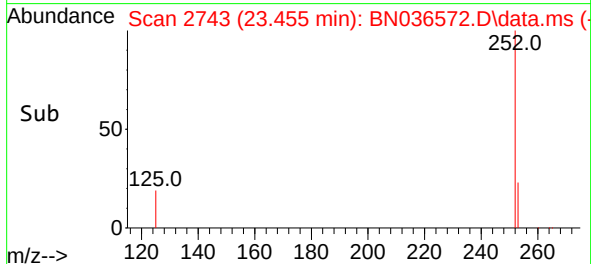


#39
Benzo(a)pyrene
Concen: 0.448 ng
RT: 23.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26

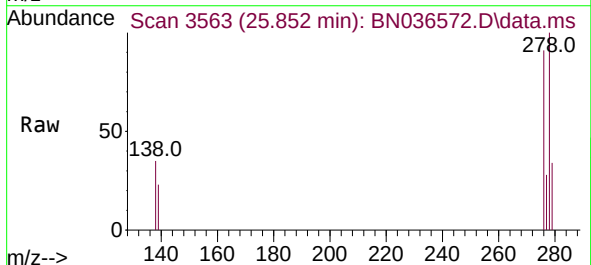
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



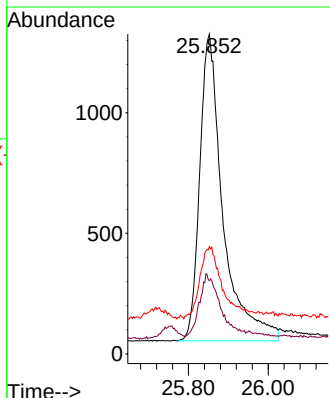
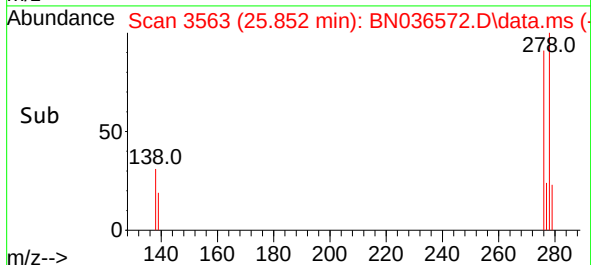
Tgt Ion:252 Resp: 5508
Ion Ratio Lower Upper
252 100
253 32.6 27.8 41.8
125 29.4 22.7 34.1

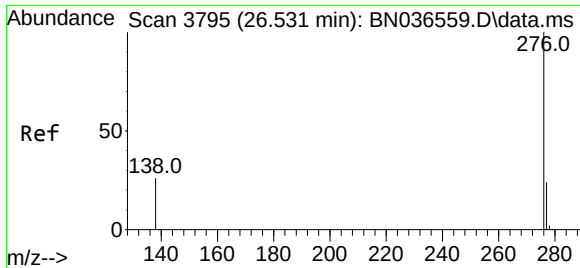


#40
Dibenzo(a,h)anthracene
Concen: 0.457 ng
RT: 25.852 min Scan# 3563
Delta R.T. -0.003 min
Lab File: BN036572.D
Acq: 10 Mar 2025 21:26



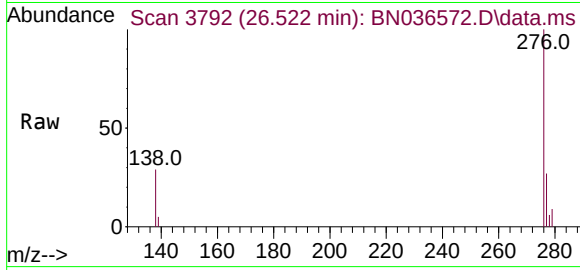
Tgt Ion:278 Resp: 5154
Ion Ratio Lower Upper
278 100
139 22.9 20.8 31.2
279 33.5 28.8 43.2



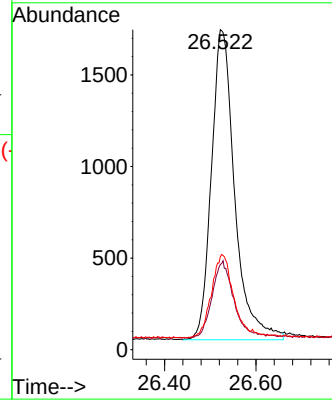
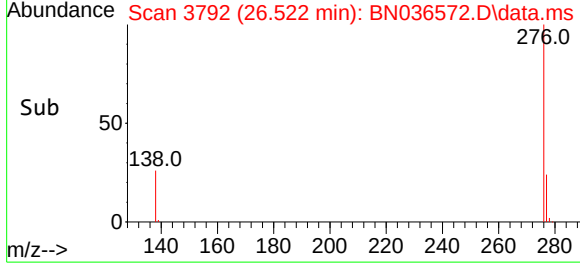


#41
 Benzo(g,h,i)perylene
 Concen: 0.463 ng
 RT: 26.522 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN036572.D
 Acq: 10 Mar 2025 21:26

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	5982
Ion Ratio	Lower	Upper	
276	100		
277	26.6	22.2	33.4
138	29.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
 Data File : BN036588.D
 Acq On : 11 Mar 2025 19:09
 Operator : RC/JU
 Sample : PB167057BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS

Quant Time: Mar 12 01:09:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

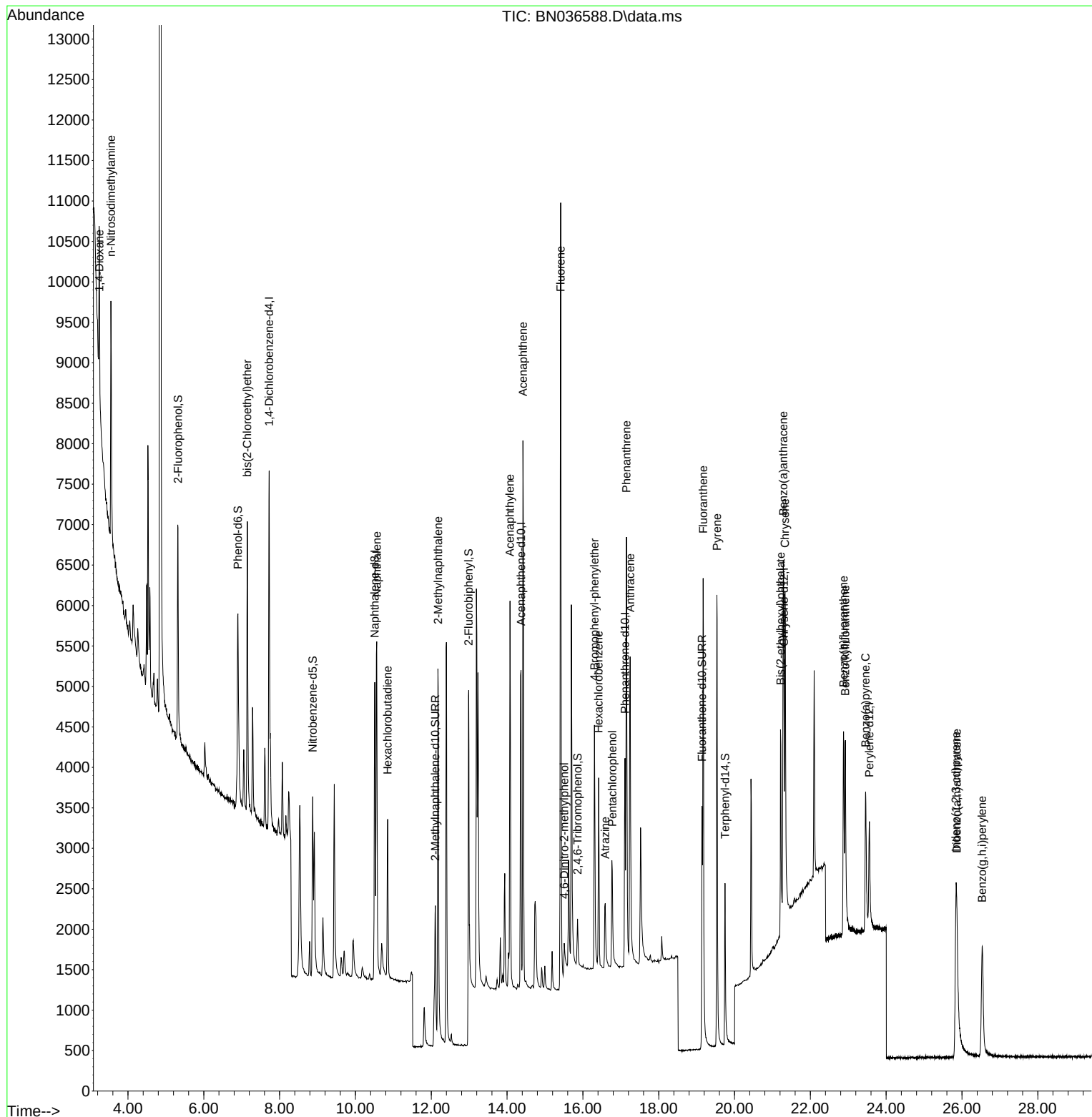
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2199	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5061	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	2475	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	4176	0.400	ng	0.00
29) Chrysene-d12	21.304	240	2420	0.400	ng	0.00
35) Perylene-d12	23.557	264	2074	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2148	0.419	ng	0.00
5) Phenol-d6	6.901	99	2472	0.390	ng	0.00
8) Nitrobenzene-d5	8.875	82	2108	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3960	0.526	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	375	0.334	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6472	0.450	ng	0.00
27) Fluoranthene-d10	19.141	212	4153	0.388	ng	0.00
31) Terphenyl-d14	19.750	244	2732	0.471	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	979	0.401	ng	# 29
3) n-Nitrosodimethylamine	3.550	42	2276	0.461	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	2676	0.409	ng	99
9) Naphthalene	10.562	128	6313	0.424	ng	99
10) Hexachlorobutadiene	10.850	225	1584	0.452	ng	# 97
12) 2-Methylnaphthalene	12.177	142	3954	0.417	ng	99
16) Acenaphthylene	14.077	152	5361	0.459	ng	100
17) Acenaphthene	14.420	154	3280	0.429	ng	99
18) Fluorene	15.414	166	4237	0.410	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	335	0.460	ng	# 78
21) 4-Bromophenyl-phenylether	16.304	248	1256	0.480	ng	92
22) Hexachlorobenzene	16.416	284	1619	0.513	ng	98
23) Atrazine	16.590	200	1046	0.499	ng	92
24) Pentachlorophenol	16.776	266	917	0.637	ng	99
25) Phenanthrene	17.148	178	6029	0.481	ng	99
26) Anthracene	17.248	178	5609	0.496	ng	99
28) Fluoranthene	19.174	202	6012	0.427	ng	98
30) Pyrene	19.536	202	6199	0.524	ng	99
32) Benzo(a)anthracene	21.286	228	3838	0.456	ng	99
33) Chrysene	21.331	228	4624	0.503	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	2665	0.445	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.841	276	4164	0.556	ng	94
37) Benzo(b)fluoranthene	22.876	252	3355	0.445	ng	94
38) Benzo(k)fluoranthene	22.923	252	4065	0.513	ng	98
39) Benzo(a)pyrene	23.458	252	3242	0.510	ng	98
40) Dibenzo(a,h)anthracene	25.861	278	3176	0.545	ng	95
41) Benzo(g,h,i)perylene	26.531	276	3258	0.489	ng	98

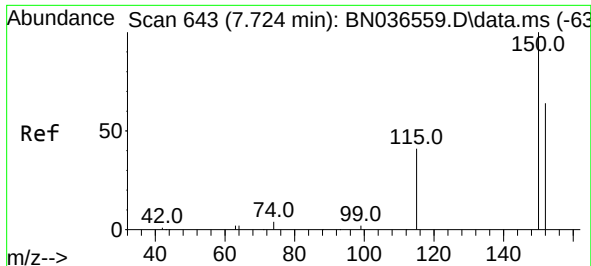
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 11 Mar 2025 19:09
Operator : RC/JU
Sample : PB167057BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167057BS

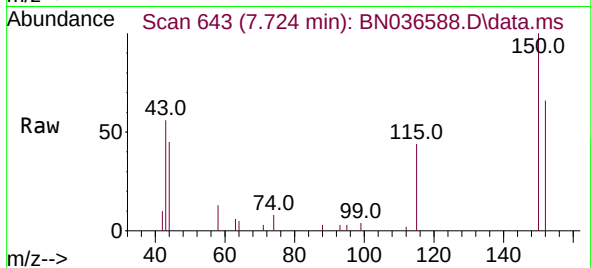
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



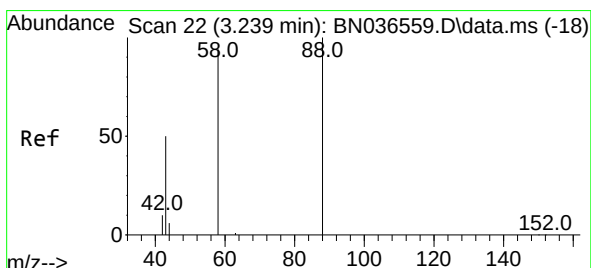
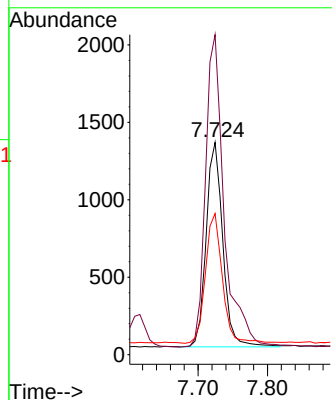
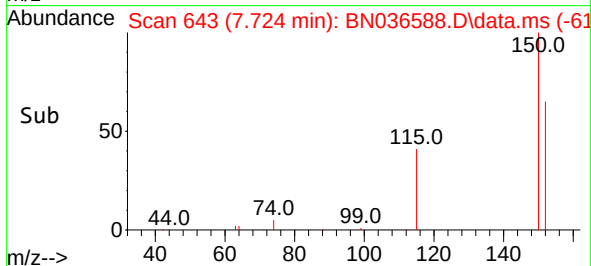


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

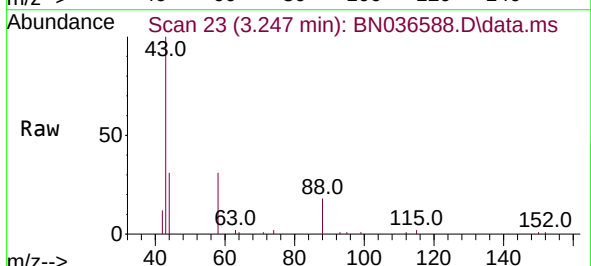
Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS



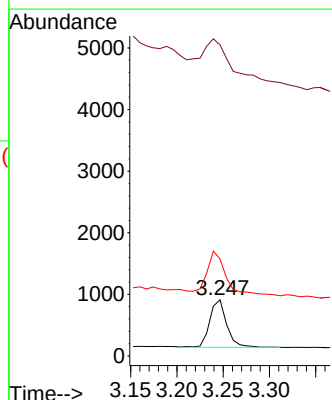
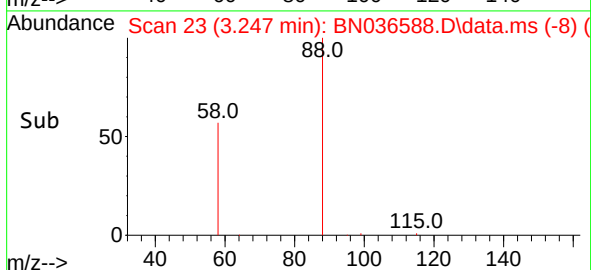
Tgt Ion: 152 Resp: 2199
 Ion Ratio Lower Upper
 152 100
 150 150.7 123.7 185.5
 115 66.4 54.3 81.5

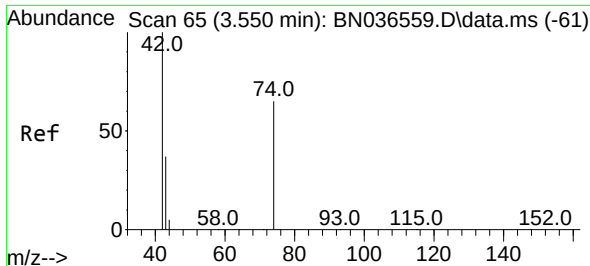


#2
 1,4-Dioxane
 Concen: 0.401 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.008 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09



Tgt Ion: 88 Resp: 979
 Ion Ratio Lower Upper
 88 100
 43 149.4 37.8 56.8#
 58 107.3 67.4 101.2#

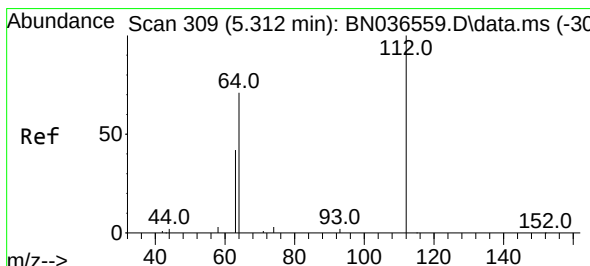
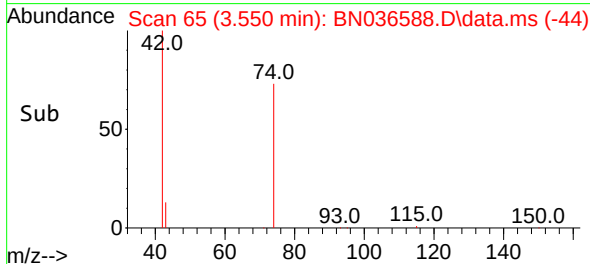
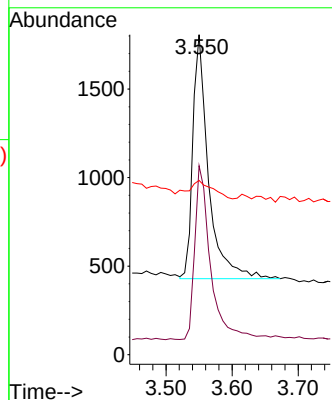
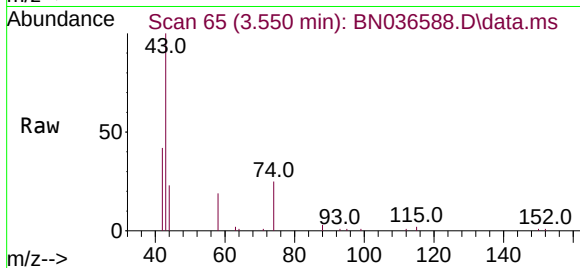




#3
 n-Nitrosodimethylamine
 Concen: 0.461 ng
 RT: 3.550 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

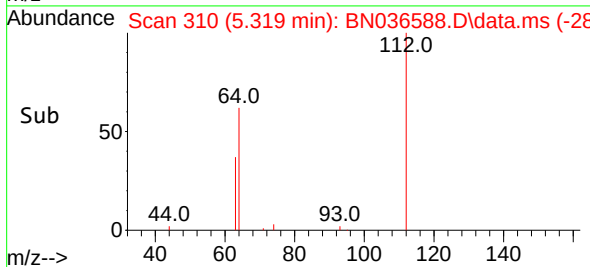
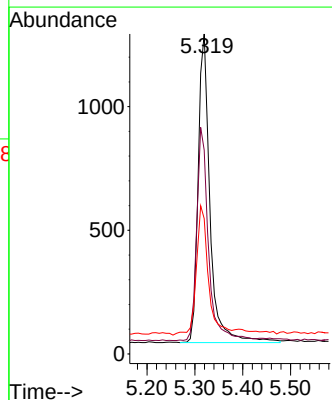
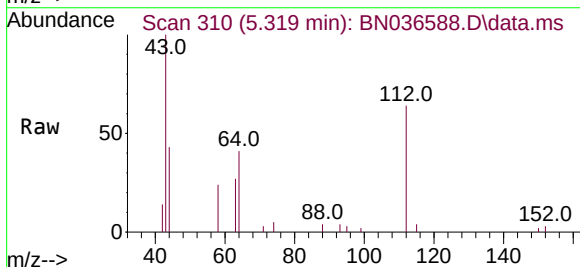
Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS

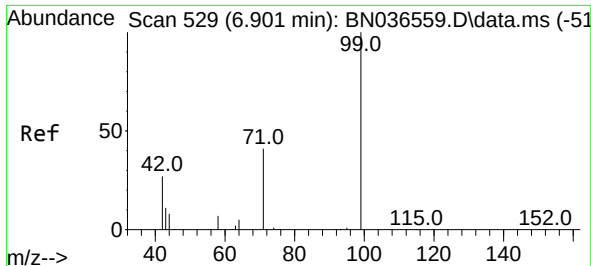
Tgt Ion: 42 Resp: 2276
 Ion Ratio Lower Upper
 42 100
 74 72.7 60.6 90.8
 44 9.7 6.3 9.5#



#4
 2-Fluorophenol
 Concen: 0.419 ng
 RT: 5.319 min Scan# 310
 Delta R.T. 0.007 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

Tgt Ion: 112 Resp: 2148
 Ion Ratio Lower Upper
 112 100
 64 68.3 53.1 79.7
 63 42.4 31.8 47.8

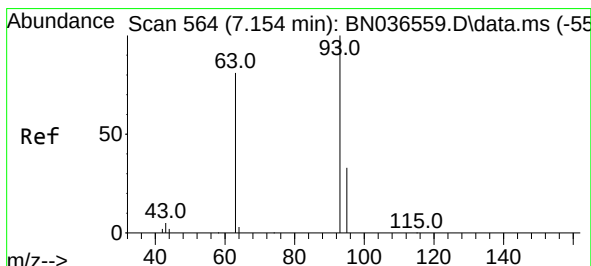
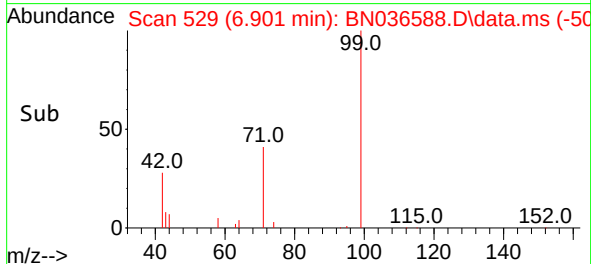
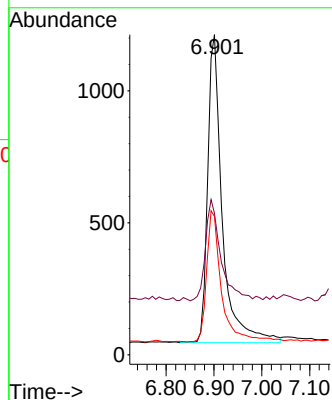
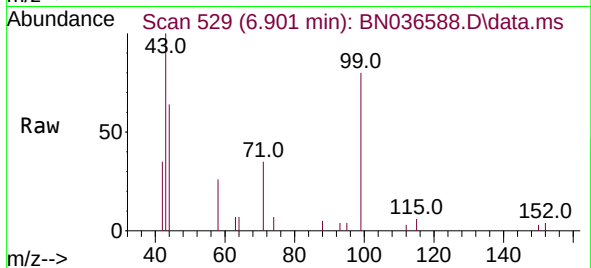




#5
Phenol-d6
Concen: 0.390 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

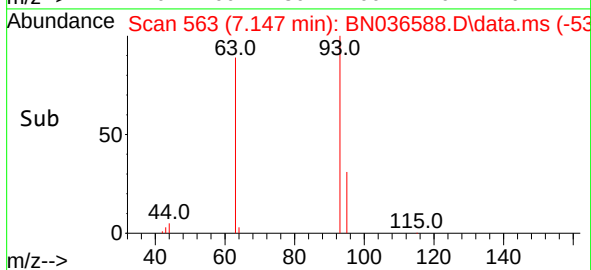
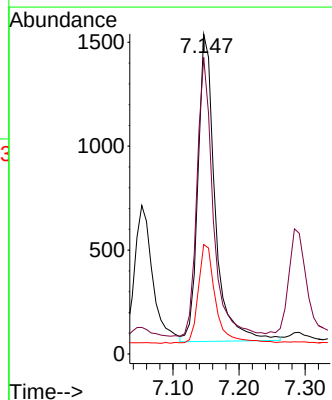
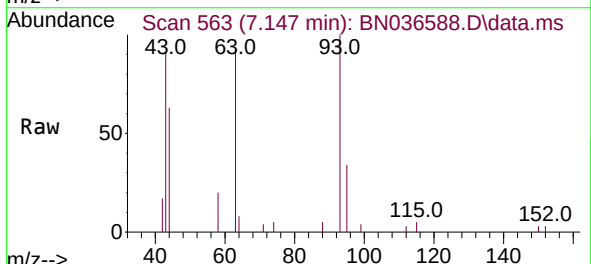
Instrument :
BNA_N
ClientSampleId :
PB167057BS

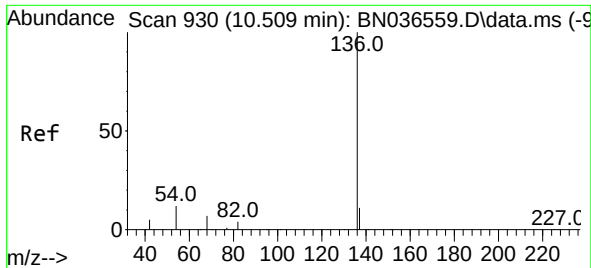
Tgt Ion: 99 Resp: 2472
Ion Ratio Lower Upper
99 100
42 35.1 26.5 39.7
71 43.5 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion: 93 Resp: 2676
Ion Ratio Lower Upper
93 100
63 85.4 67.7 101.5
95 32.9 25.6 38.4

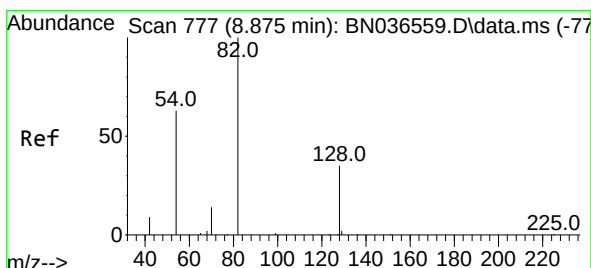
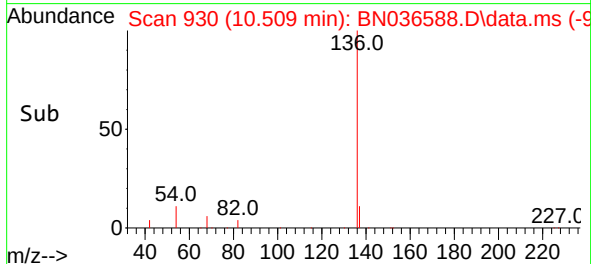
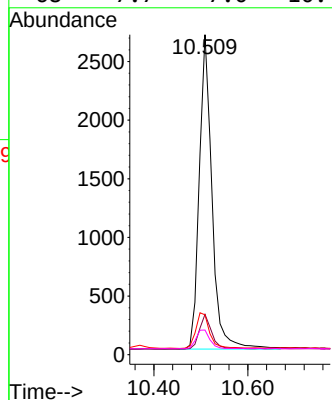
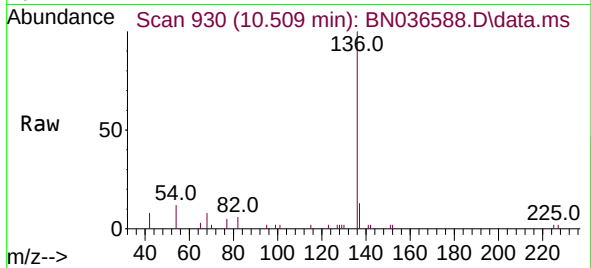




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

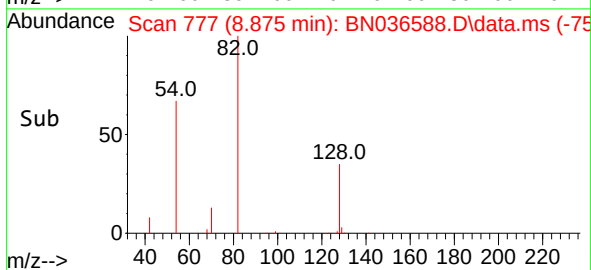
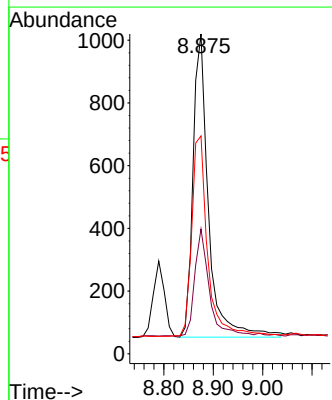
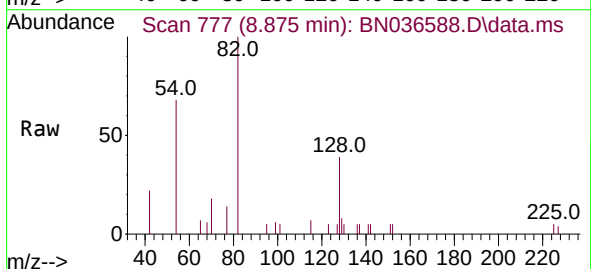
Instrument :
BNA_N
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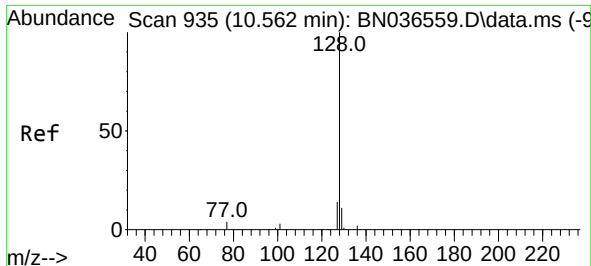
Tgt Ion:	136	Resp:	5061
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	12.5	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:	82	Resp:	2108
Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	68.1	52.2	78.4

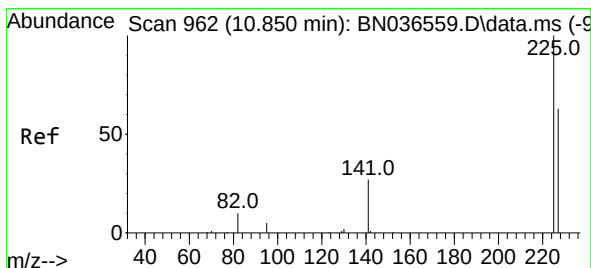
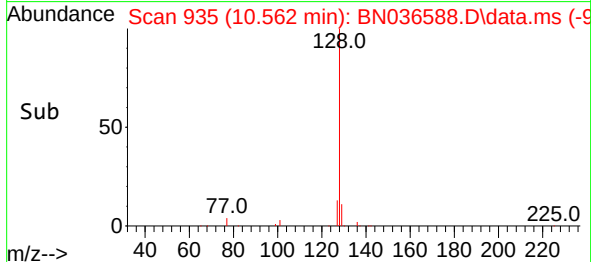
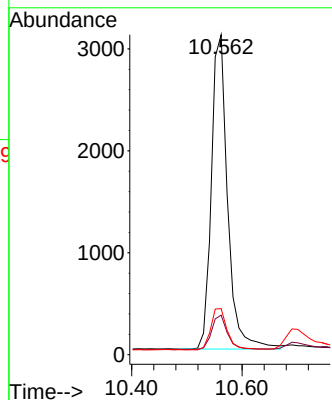
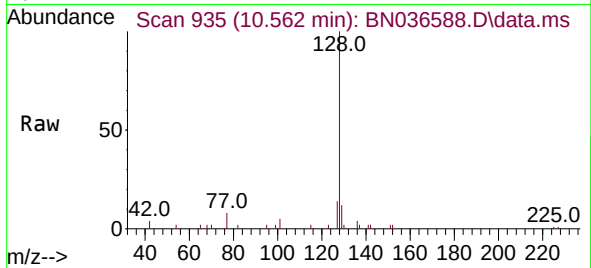




#9
Naphthalene
Concen: 0.424 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

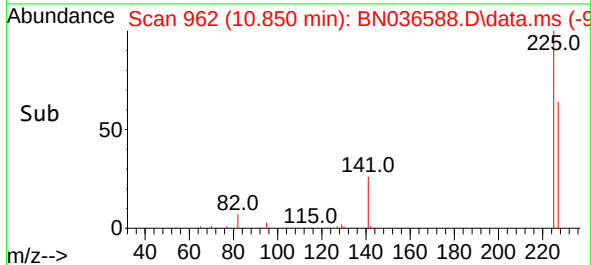
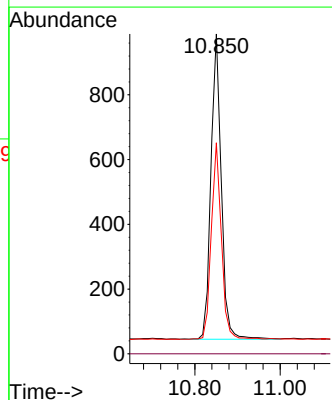
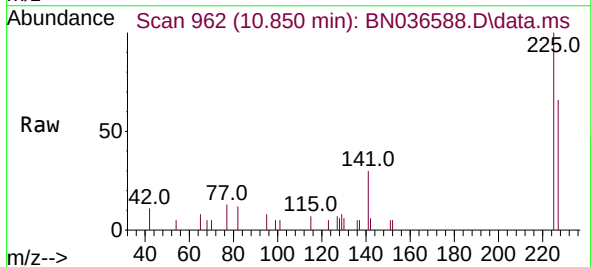
Instrument :
BNA_N
ClientSampleId :
PB167057BS

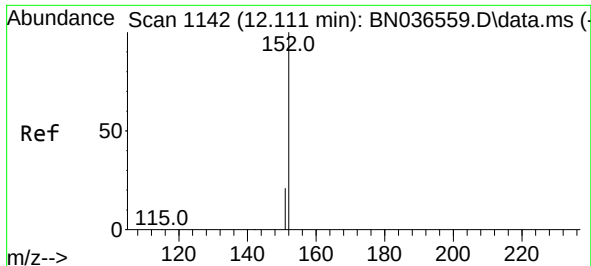
Tgt Ion:128 Resp: 6313
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 14.4 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:225 Resp: 1584
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.8 77.8

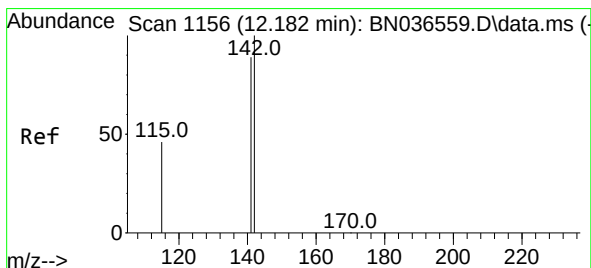
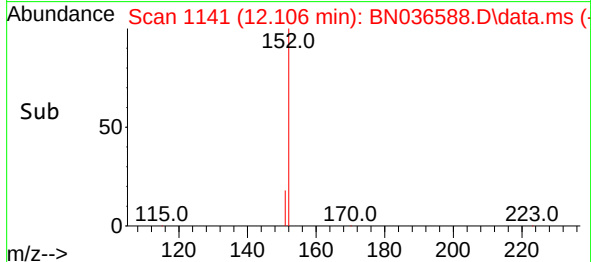
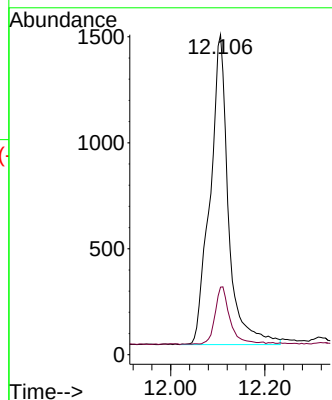
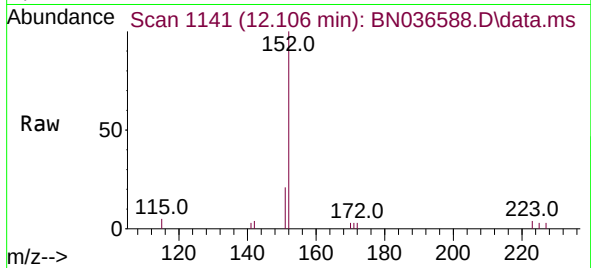




#11
2-Methylnaphthalene-d10
Concen: 0.526 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

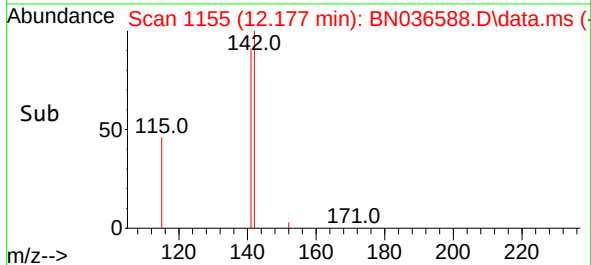
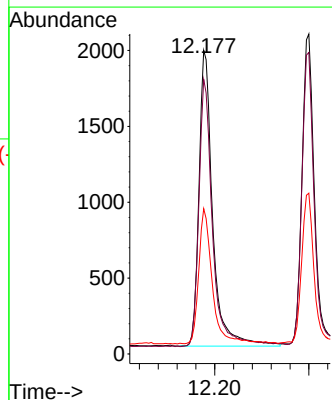
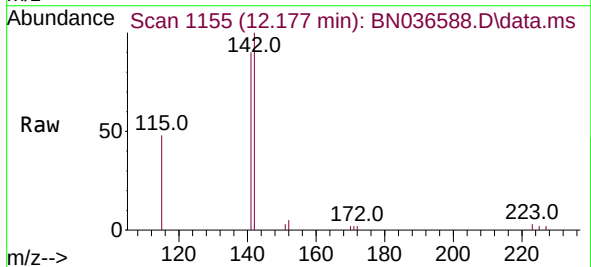
Instrument :
BNA_N
ClientSampleId :
PB167057BS

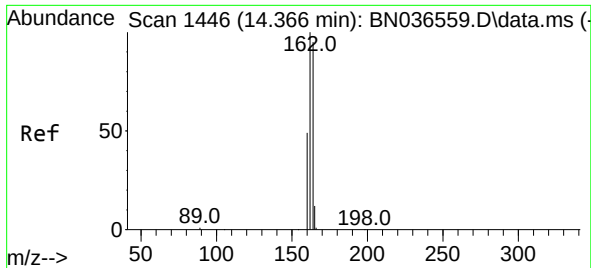
Tgt Ion:152 Resp: 3960
Ion Ratio Lower Upper
152 100
151 14.7 17.0 25.6#



#12
2-Methylnaphthalene
Concen: 0.417 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:142 Resp: 3954
Ion Ratio Lower Upper
142 100
141 90.5 71.7 107.5
115 47.9 38.3 57.5

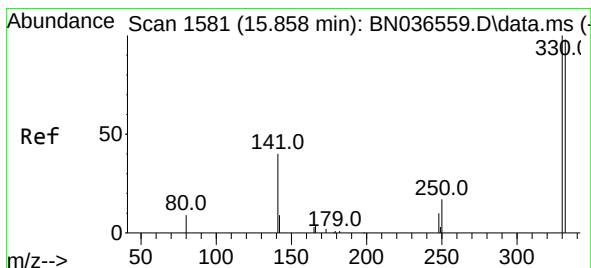
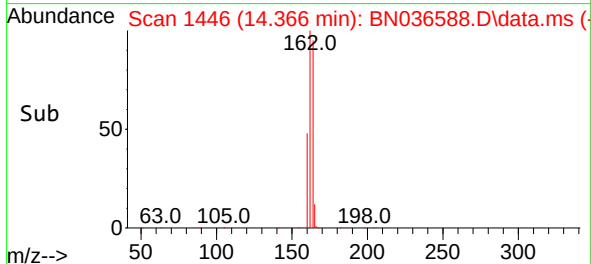
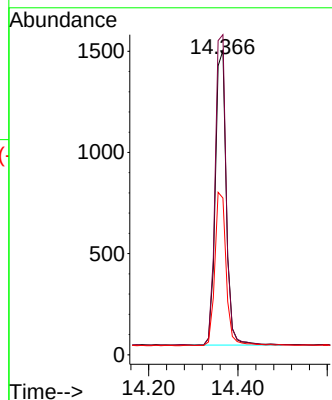
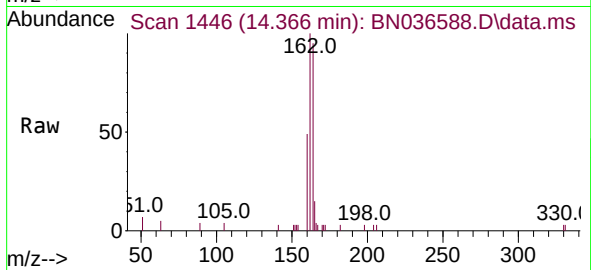




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

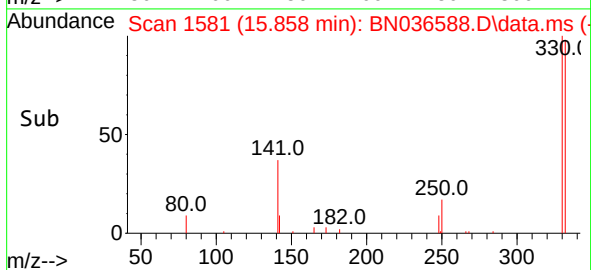
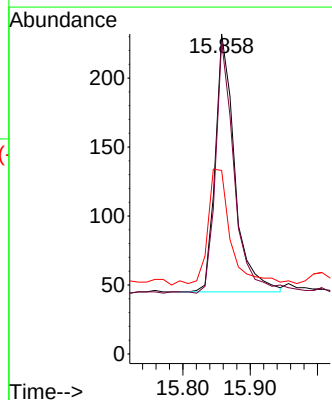
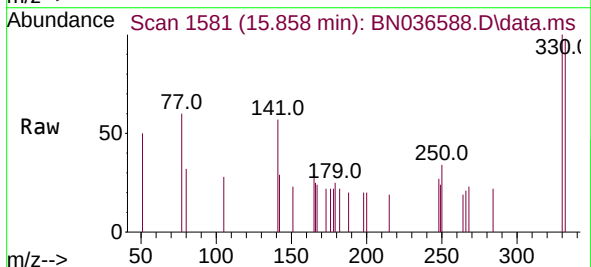
Instrument :
BNA_N
ClientSampleId :
PB167057BS

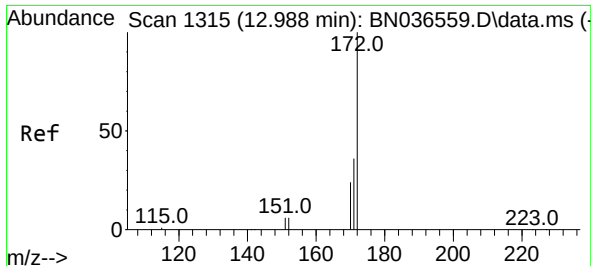
Tgt Ion:164 Resp: 2475
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 51.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.334 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:330 Resp: 375
Ion Ratio Lower Upper
330 100
332 96.8 75.2 112.8
141 53.9 43.4 65.2

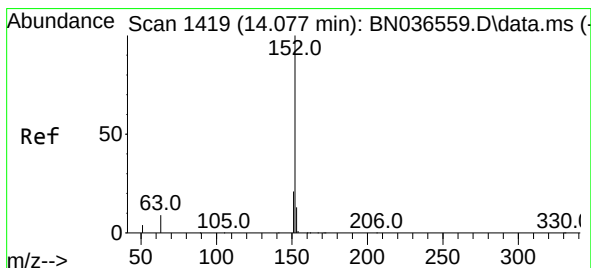
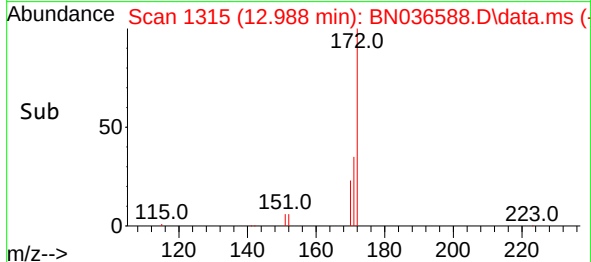
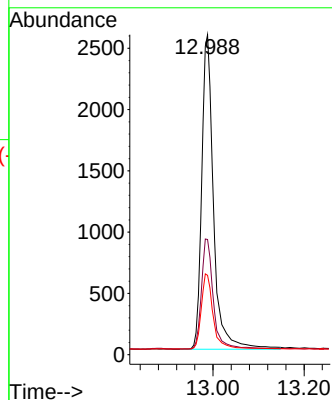
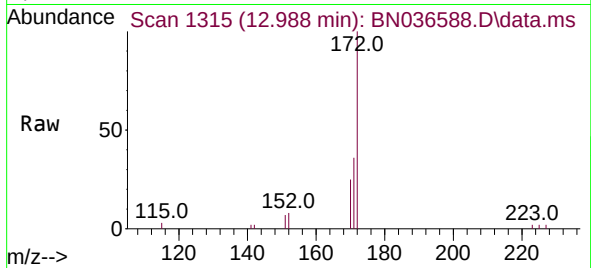




#15
2-Fluorobiphenyl
Concen: 0.450 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

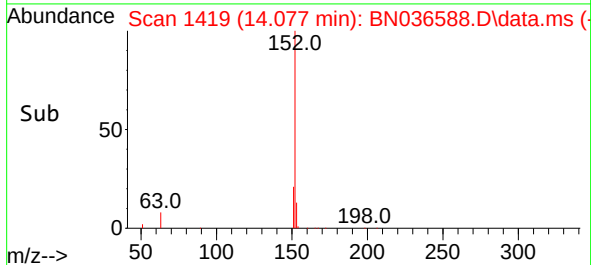
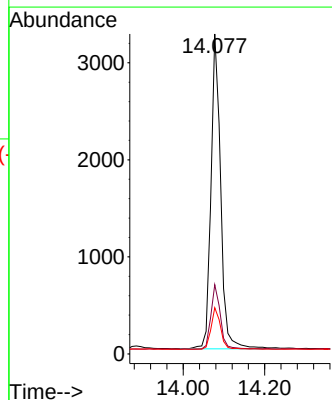
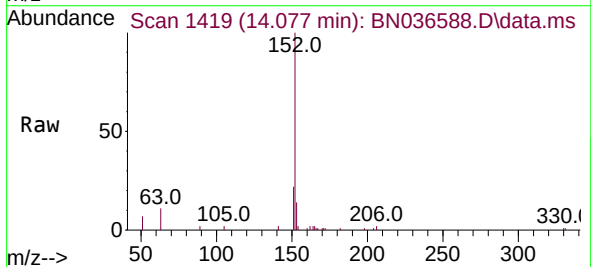
Instrument :
BNA_N
ClientSampleId :
PB167057BS

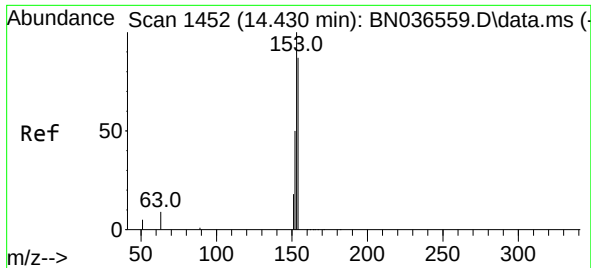
Tgt Ion:	172	Resp:	6472
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.5	44.3
170	24.8	20.2	30.4



#16
Acenaphthylene
Concen: 0.459 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:	152	Resp:	5361
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.4
153	13.2	10.6	15.8

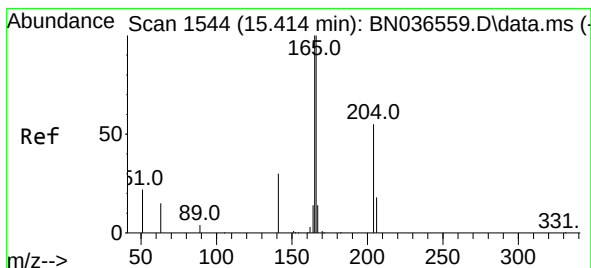
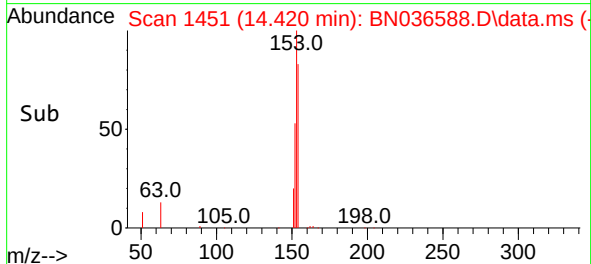
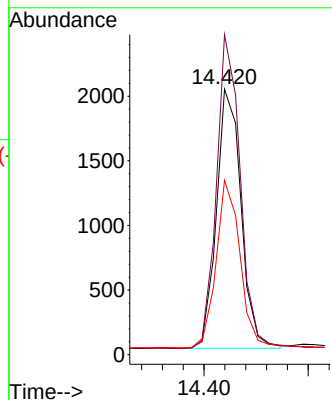
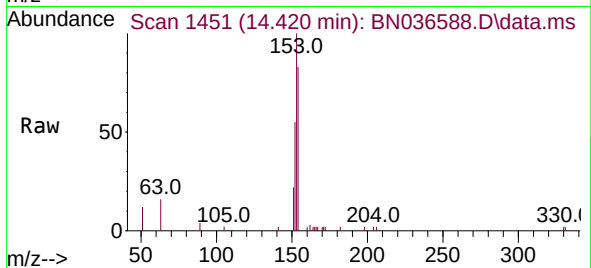




#17
Acenaphthene
Concen: 0.429 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

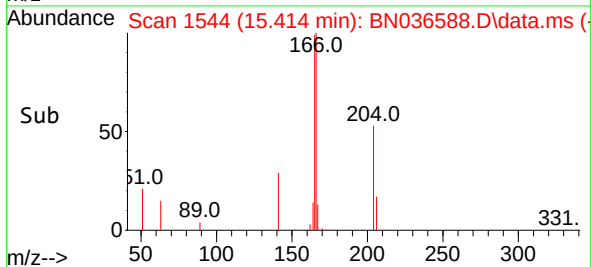
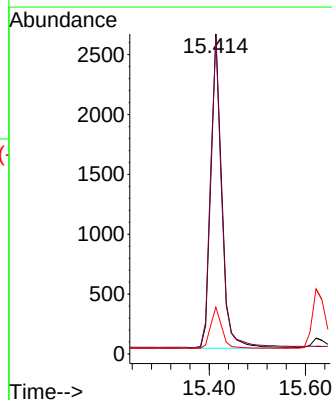
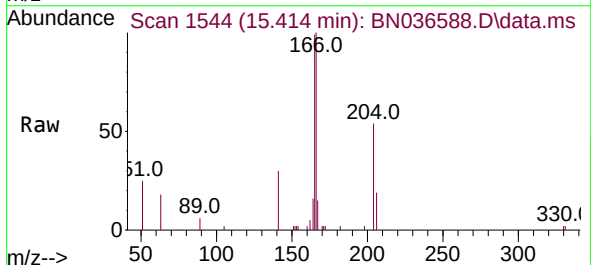
Instrument :
BNA_N
ClientSampleId :
PB167057BS

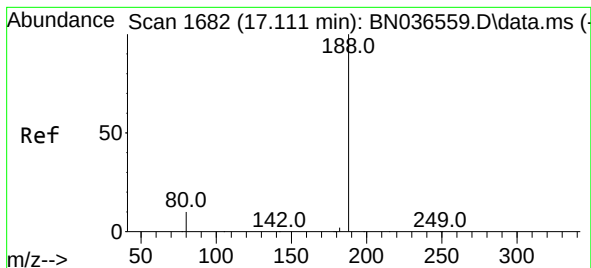
Tgt Ion:154 Resp: 3280
Ion Ratio Lower Upper
154 100
153 118.0 94.1 141.1
152 63.9 49.8 74.6



#18
Fluorene
Concen: 0.410 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:166 Resp: 4237
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.7 10.6 15.8

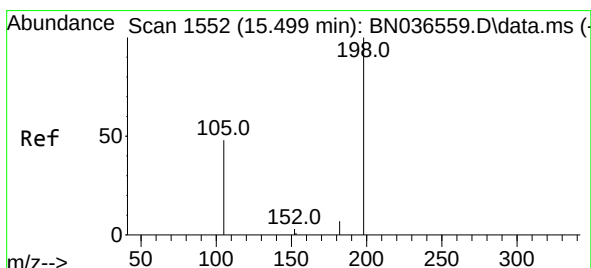
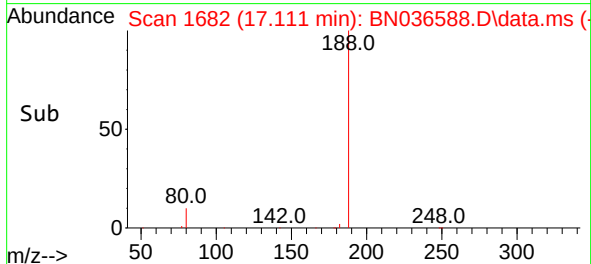
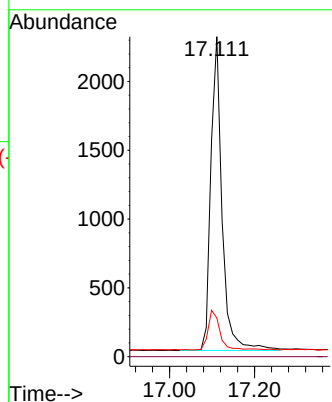
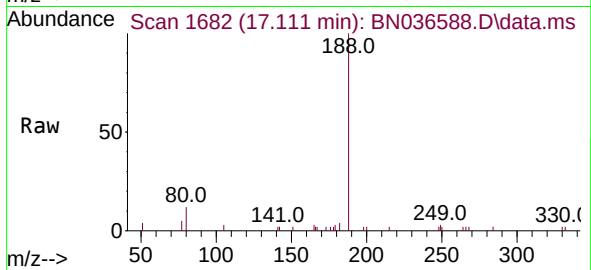




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

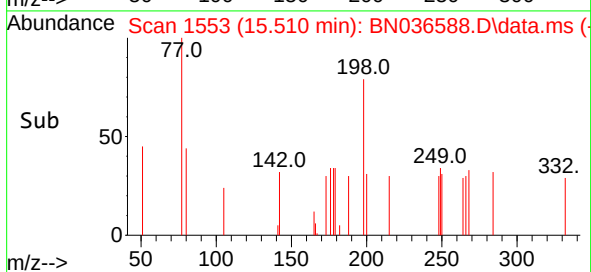
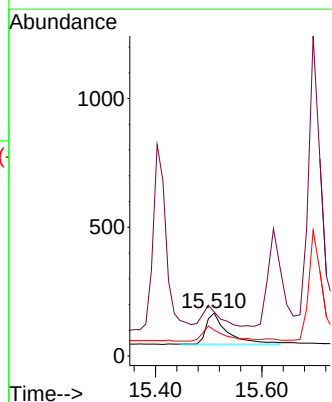
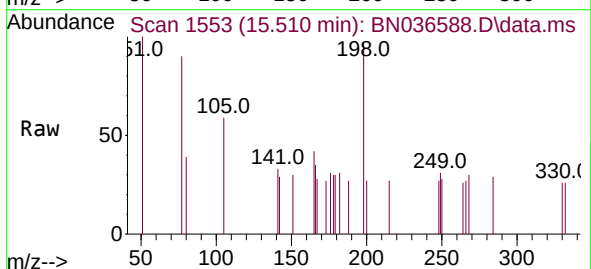
Instrument :
BNA_N
ClientSampleId :
PB167057BS

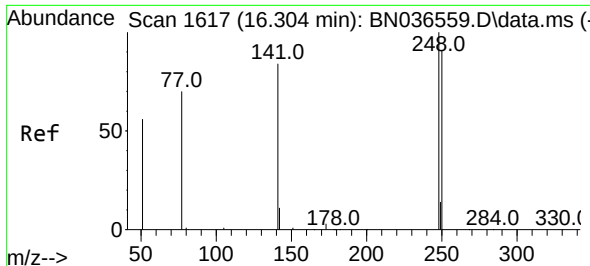
Tgt Ion:188 Resp: 4176
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.460 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:198 Resp: 335
Ion Ratio Lower Upper
198 100
51 103.0 107.9 161.9#
105 60.5 56.2 84.2

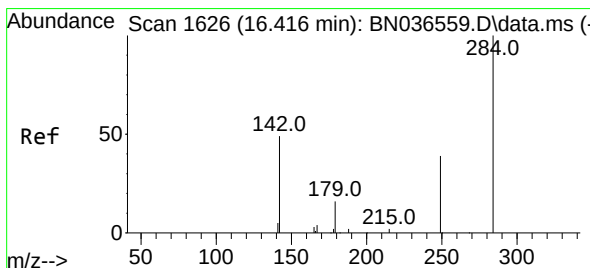
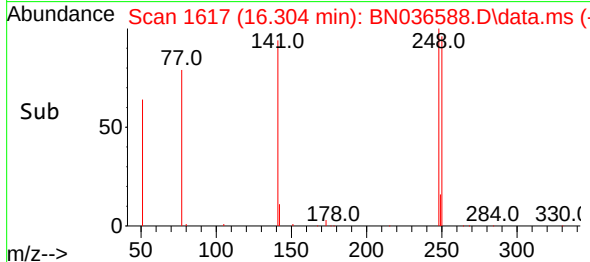
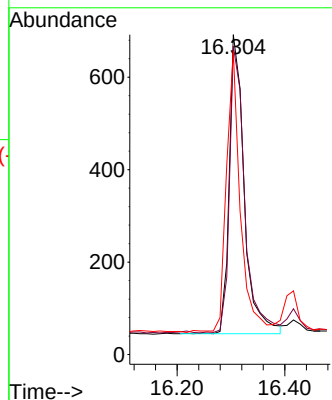
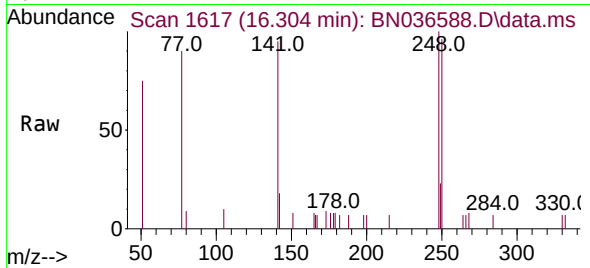




#21
4-Bromophenyl-phenylether
Concen: 0.480 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

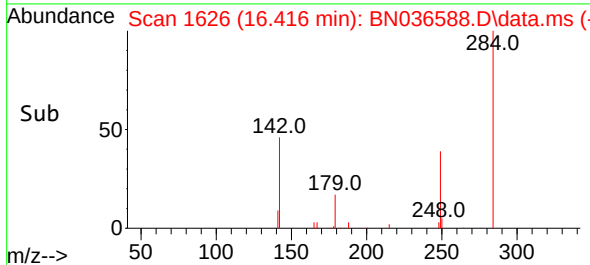
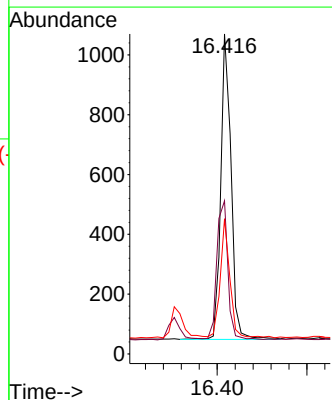
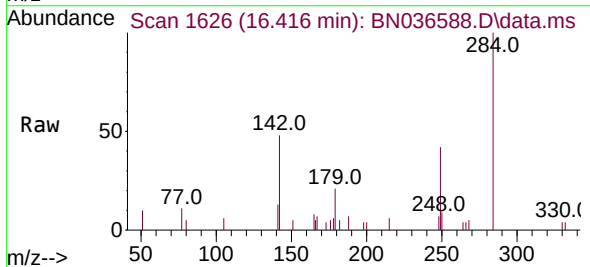
Instrument :
BNA_N
ClientSampleId :
PB167057BS

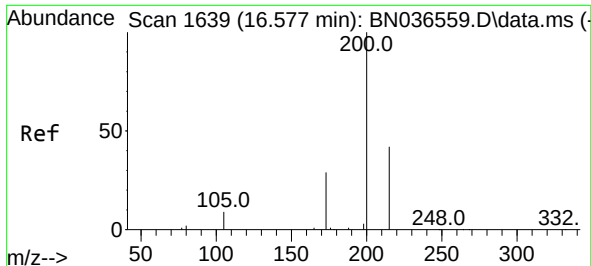
Tgt Ion:	248	Resp:	1256
Ion Ratio	Lower	Upper	
248	100		
250	96.4	73.0	109.6
141	94.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.513 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:	284	Resp:	1619
Ion Ratio	Lower	Upper	
284	100		
142	48.5	37.0	55.4
249	35.0	28.1	42.1

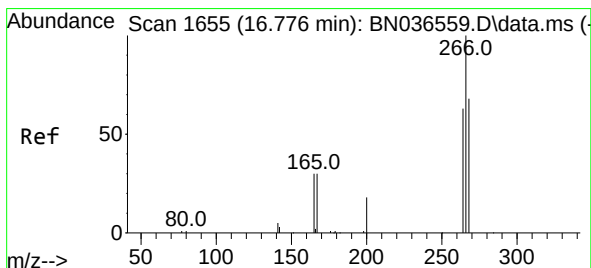
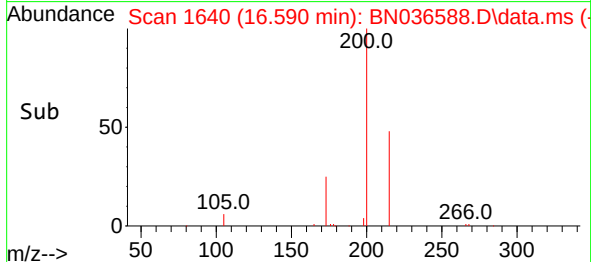
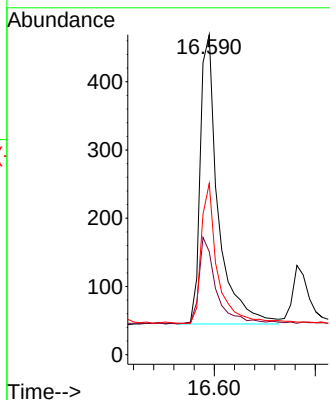
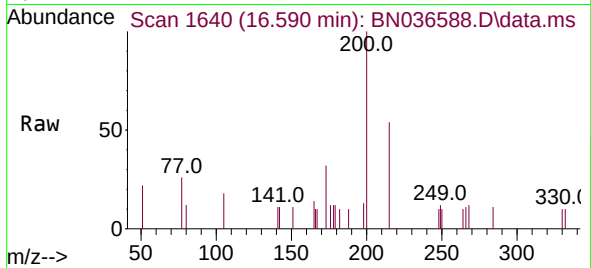




#23
 Atrazine
 Concen: 0.499 ng
 RT: 16.590 min Scan# 1640
 Delta R.T. 0.012 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

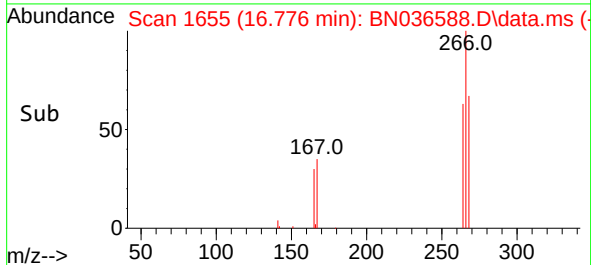
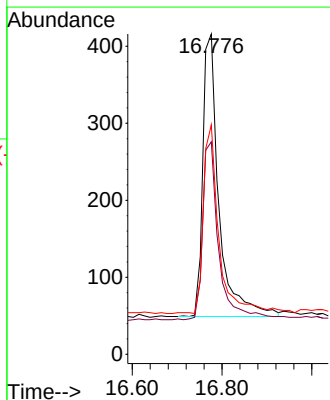
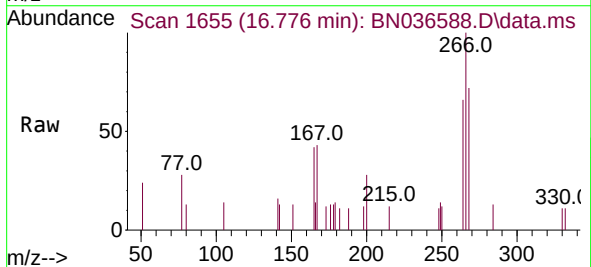
Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS

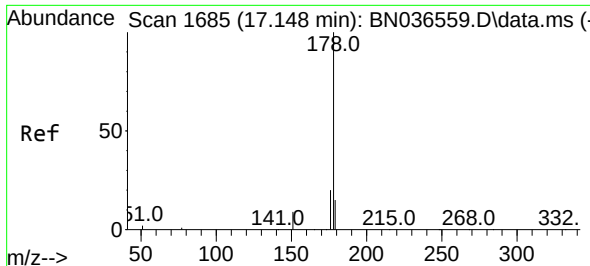
Tgt Ion:200 Resp: 1046
 Ion Ratio Lower Upper
 200 100
 173 32.2 27.3 40.9
 215 53.5 36.8 55.2



#24
 Pentachlorophenol
 Concen: 0.637 ng
 RT: 16.776 min Scan# 1655
 Delta R.T. 0.000 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

Tgt Ion:266 Resp: 917
 Ion Ratio Lower Upper
 266 100
 264 62.4 49.6 74.4
 268 64.8 50.9 76.3

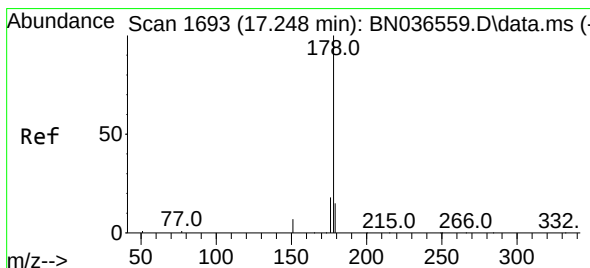
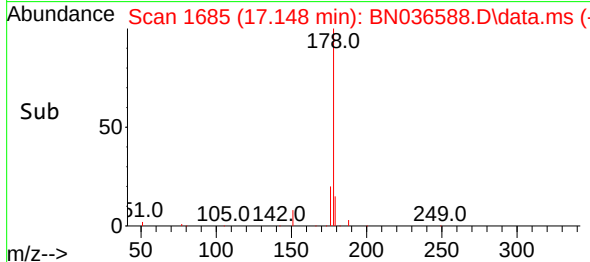
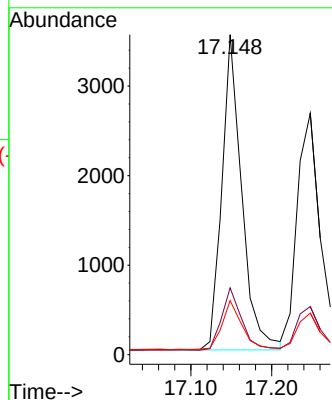
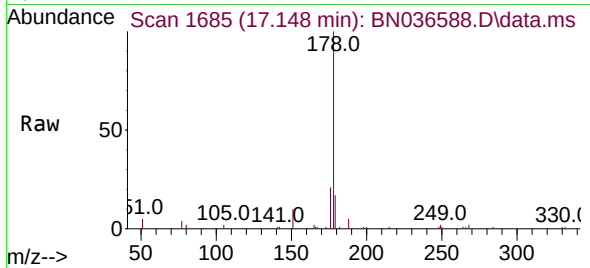




#25
Phenanthrene
Concen: 0.481 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

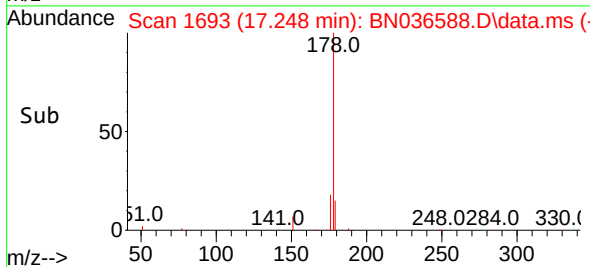
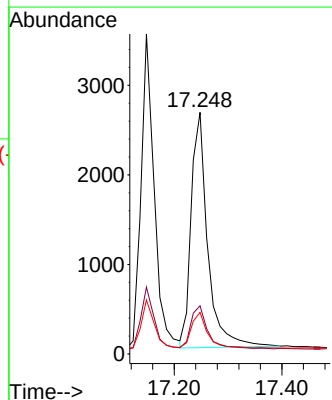
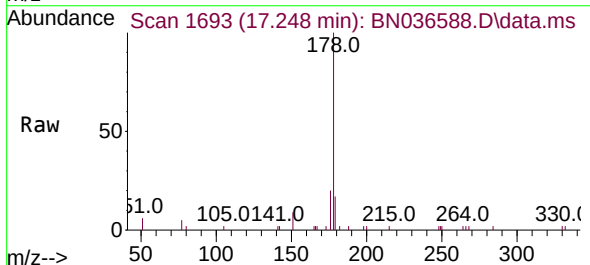
Instrument :
BNA_N
ClientSampleId :
PB167057BS

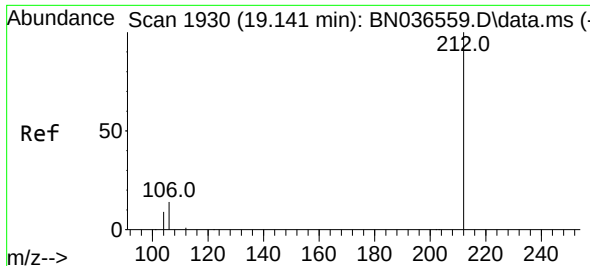
Tgt Ion:178 Resp: 6029
Ion Ratio Lower Upper
178 100
176 20.1 15.9 23.9
179 15.7 12.2 18.4



#26
Anthracene
Concen: 0.496 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:178 Resp: 5609
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.1 12.6 18.8

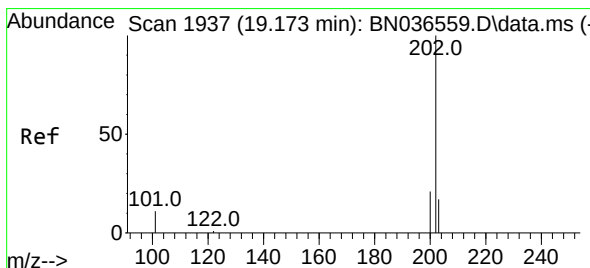
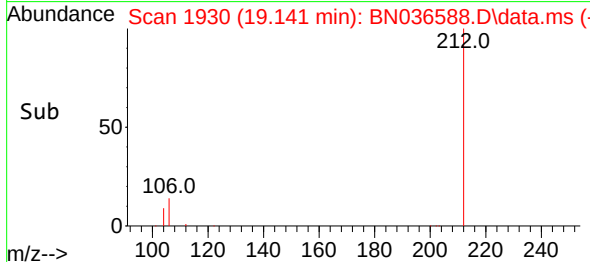
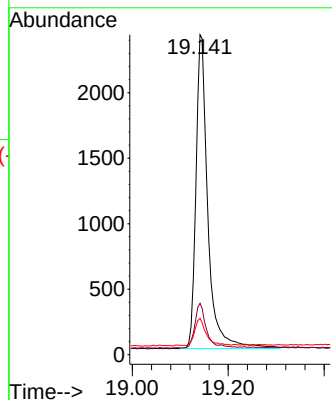
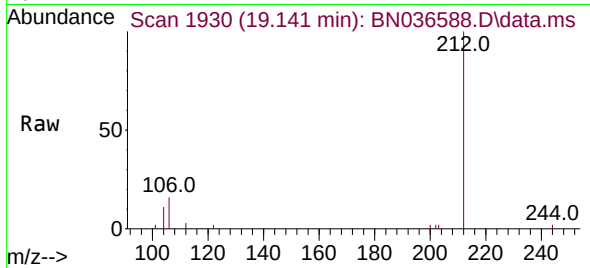




#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

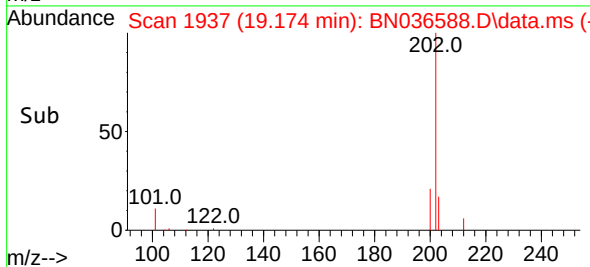
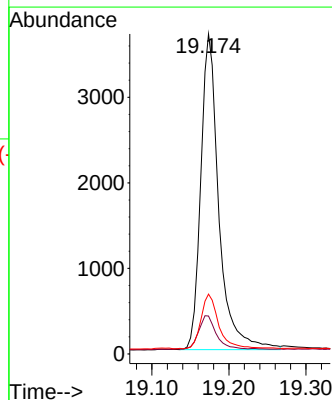
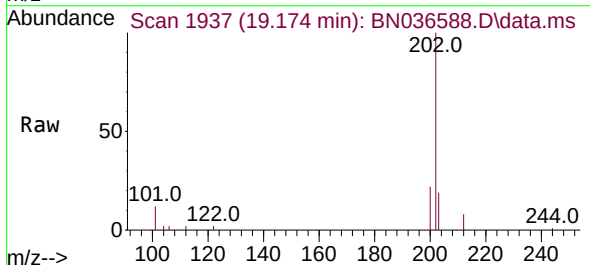
Instrument :
BNA_N
ClientSampleId :
PB167057BS

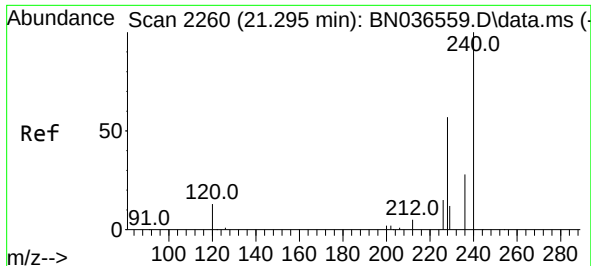
Tgt Ion:212 Resp: 4153
Ion Ratio Lower Upper
212 100
106 13.6 11.8 17.6
104 8.4 7.3 10.9



#28
Fluoranthene
Concen: 0.427 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:202 Resp: 6012
Ion Ratio Lower Upper
202 100
101 10.4 9.4 14.0
203 17.2 13.5 20.3

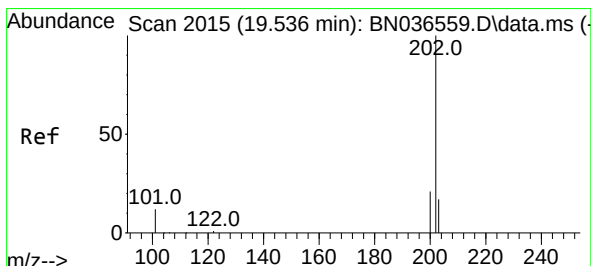
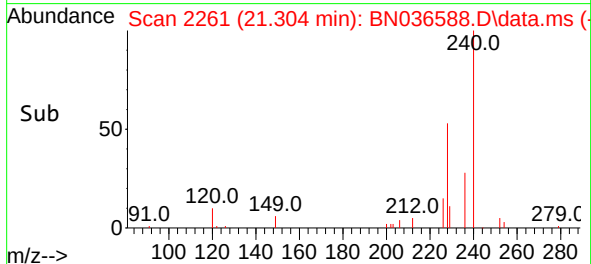
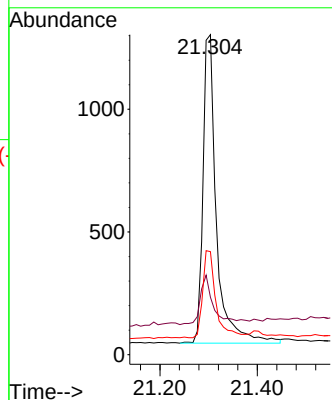
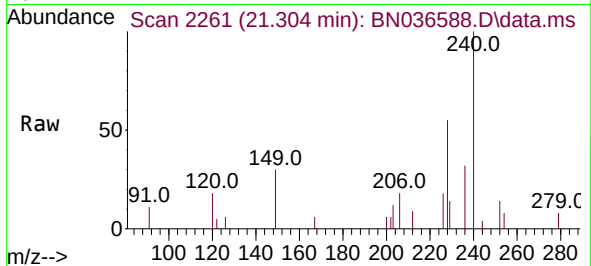




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

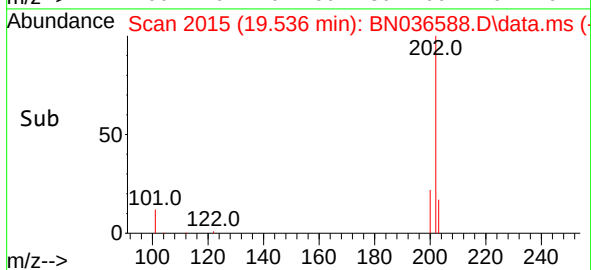
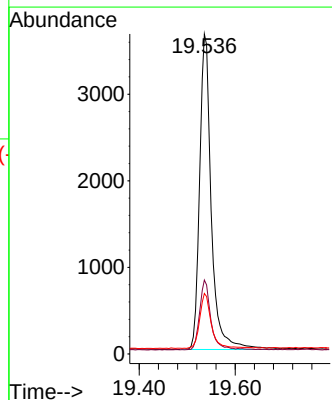
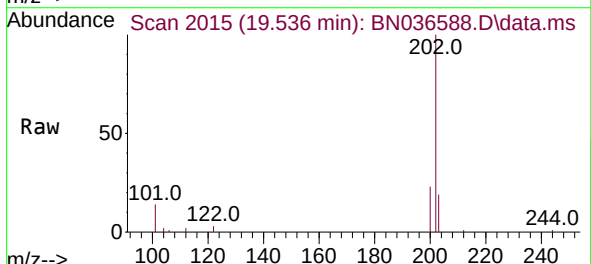
Instrument :
BNA_N
ClientSampleId :
PB167057BS

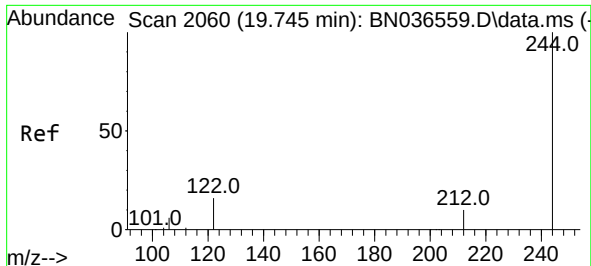
Tgt Ion:240 Resp: 2420
Ion Ratio Lower Upper
240 100
120 17.9 14.6 22.0
236 32.2 24.1 36.1



#30
Pyrene
Concen: 0.524 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:202 Resp: 6199
Ion Ratio Lower Upper
202 100
200 20.8 17.1 25.7
203 17.4 14.1 21.1

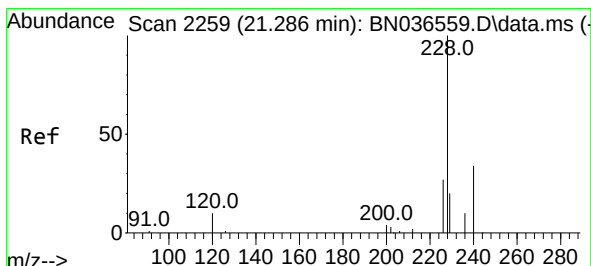
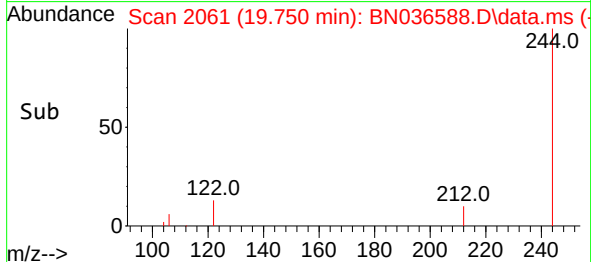
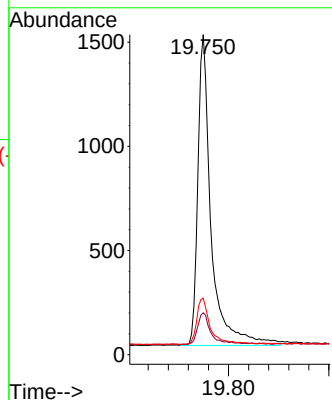
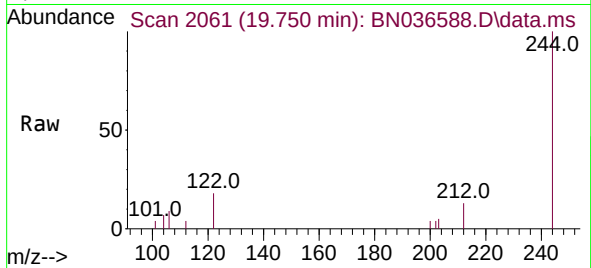




#31
 Terphenyl-d14
 Concen: 0.471 ng
 RT: 19.750 min Scan# 2060
 Delta R.T. 0.005 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

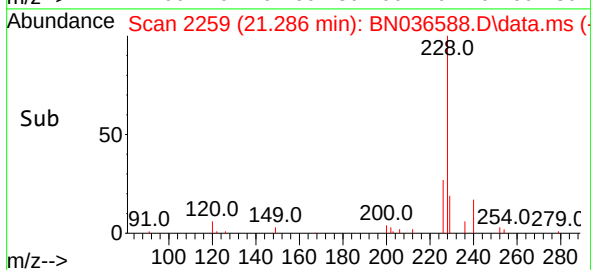
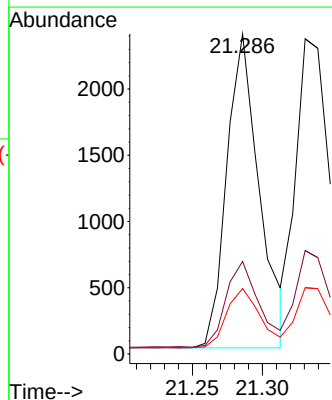
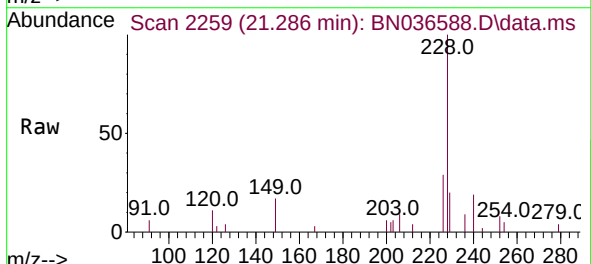
Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS

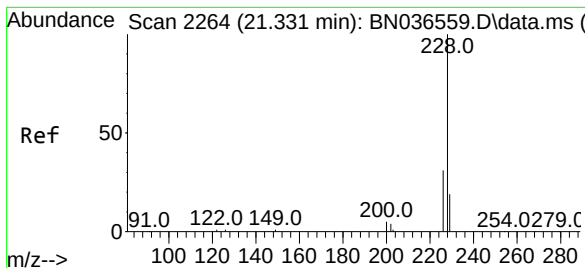
Tgt Ion:244 Resp: 2732
 Ion Ratio Lower Upper
 244 100
 212 13.1 9.6 14.4
 122 17.6 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.456 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

Tgt Ion:228 Resp: 3838
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.5 33.7
 229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.503 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

Instrument :

BNA_N

ClientSampleId :

PB167057BS

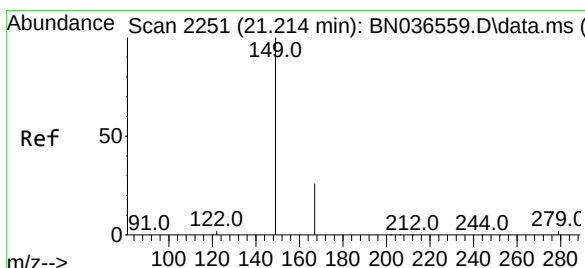
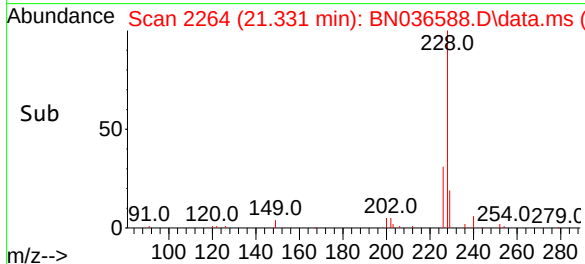
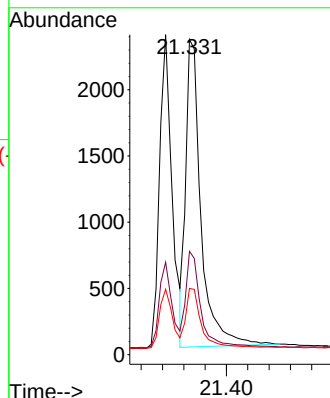
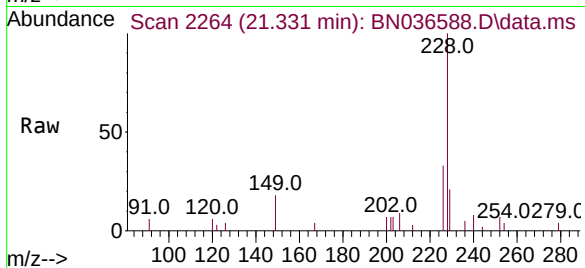
Tgt Ion:228 Resp: 4624

Ion Ratio Lower Upper

228 100

226 32.8 25.3 37.9

229 21.0 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.445 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036588.D

Acq: 11 Mar 2025 19:09

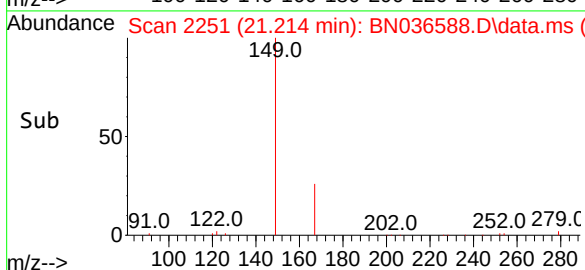
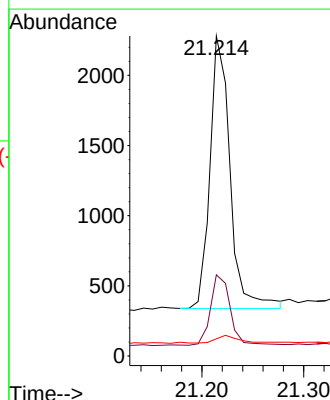
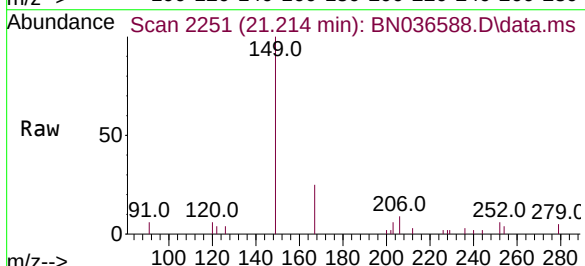
Tgt Ion:149 Resp: 2665

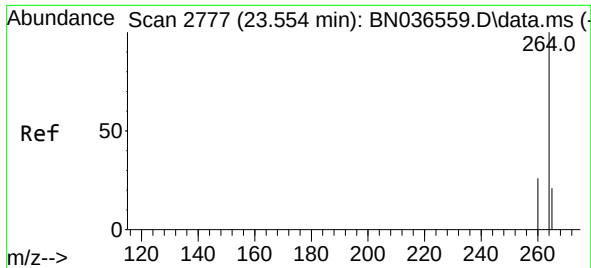
Ion Ratio Lower Upper

149 100

167 25.0 20.7 31.1

279 2.9 3.6 5.4#

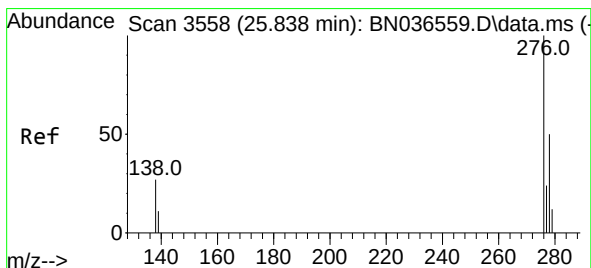
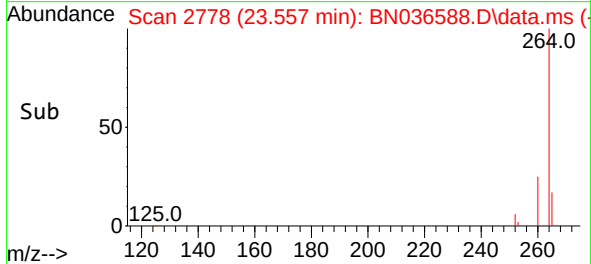
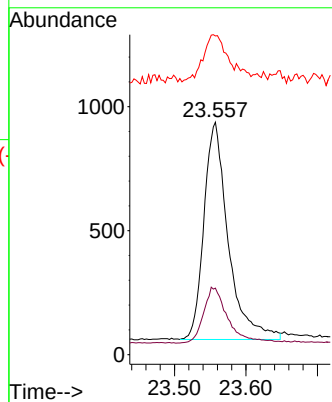
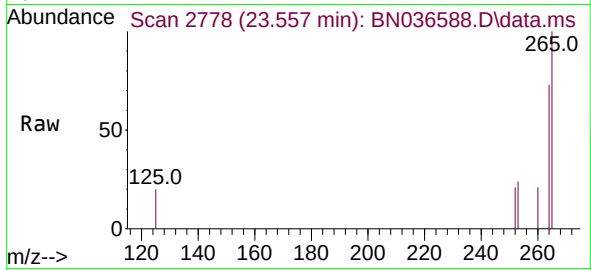




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

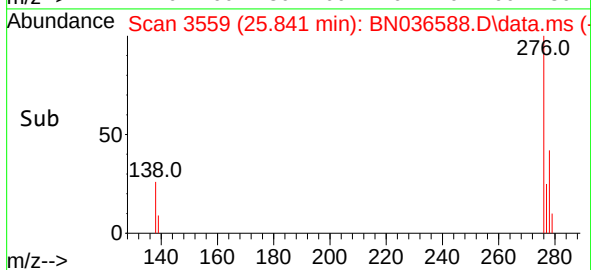
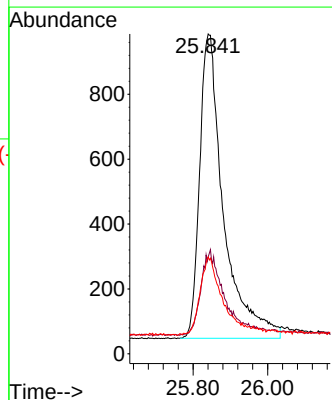
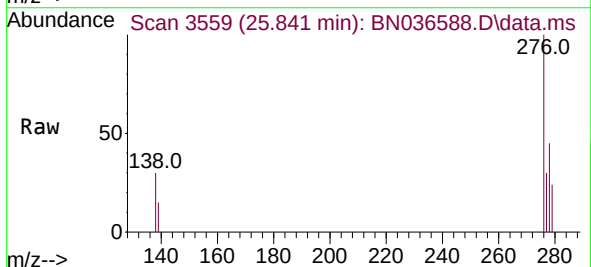
Instrument :
BNA_N
ClientSampleId :
PB167057BS

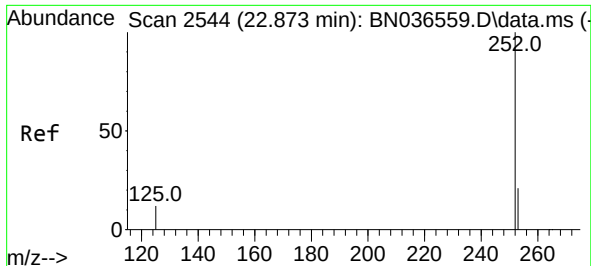
Tgt Ion:264 Resp: 2074
Ion Ratio Lower Upper
264 100
260 28.6 22.6 33.8
265 137.1 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.556 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Tgt Ion:276 Resp: 4164
Ion Ratio Lower Upper
276 100
138 25.7 23.4 35.2
277 22.9 20.0 30.0

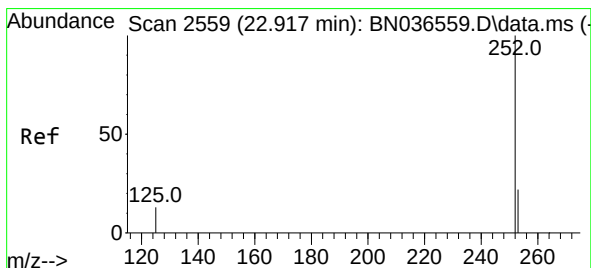
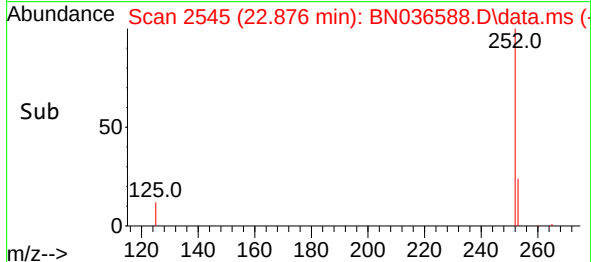
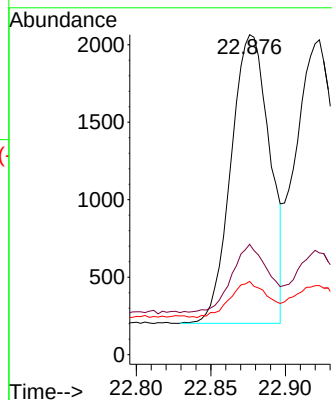
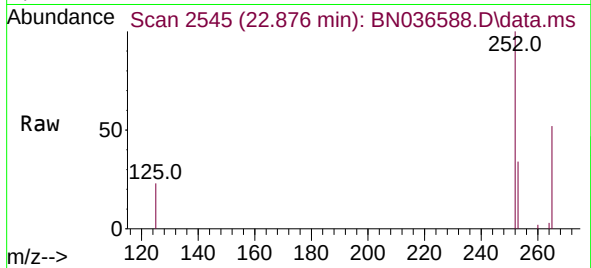




#37
Benzo(b)fluoranthene
Concen: 0.445 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

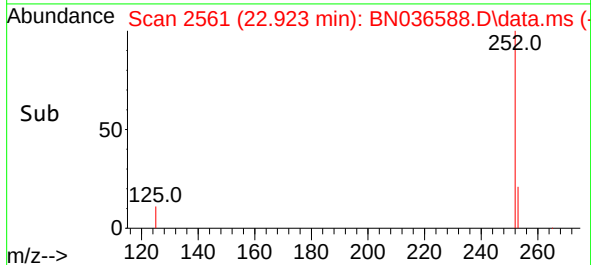
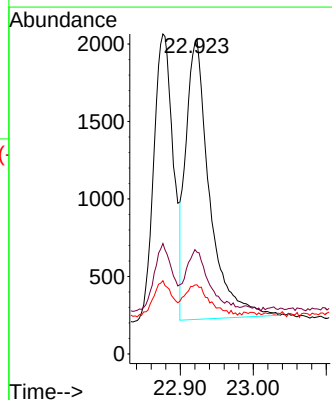
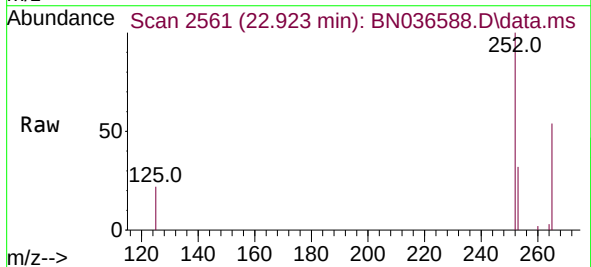
Instrument :
BNA_N
ClientSampleId :
PB167057BS

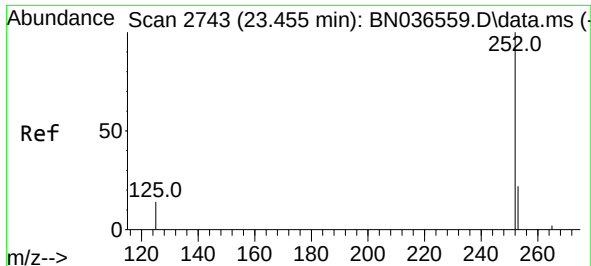
Tgt Ion:252 Resp: 3355
Ion Ratio Lower Upper
252 100
253 34.5 23.9 35.9
125 22.9 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.513 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

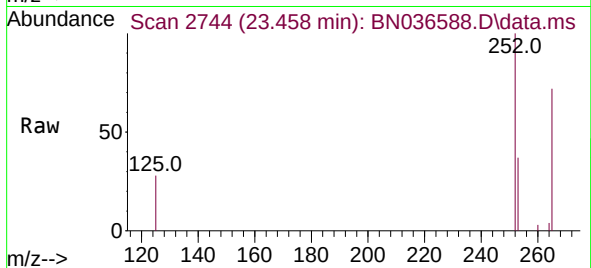
Tgt Ion:252 Resp: 4065
Ion Ratio Lower Upper
252 100
253 32.3 24.6 36.8
125 21.9 17.8 26.8



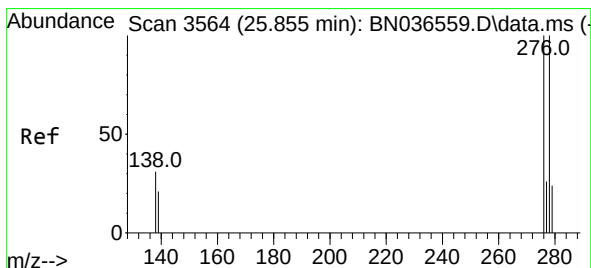
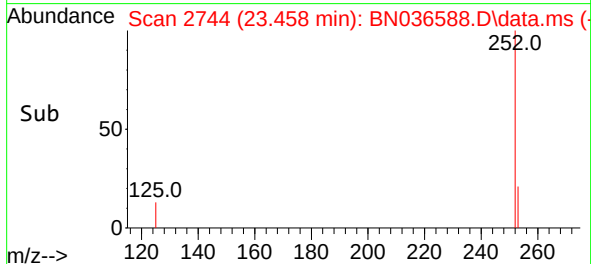
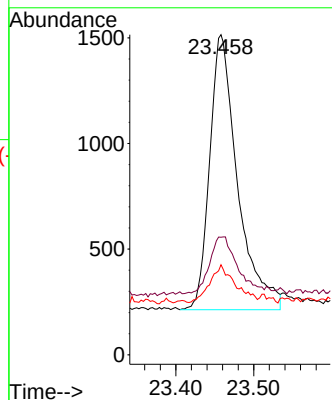


#39
Benzo(a)pyrene
Concen: 0.510 ng
RT: 23.458 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

Instrument :
BNA_N
ClientSampleId :
PB167057BS

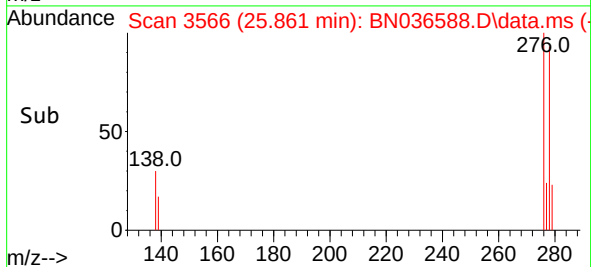
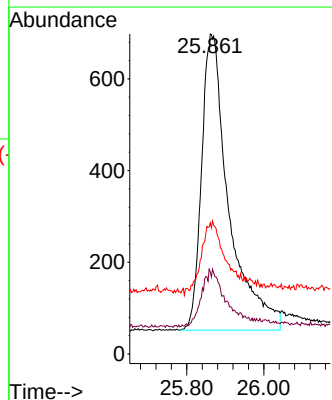
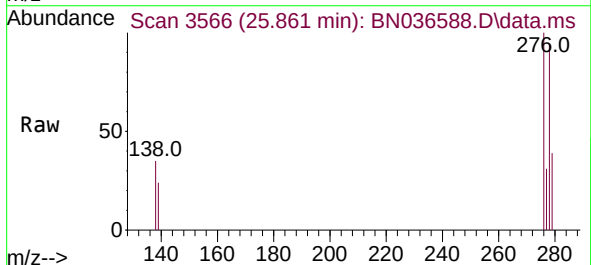


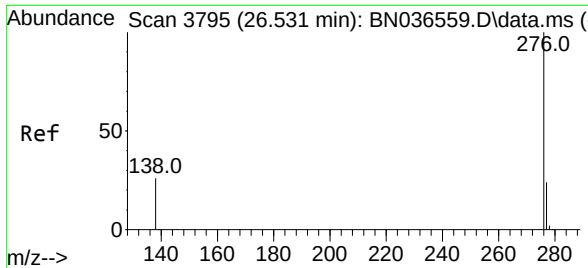
Tgt Ion:252 Resp: 3242
Ion Ratio Lower Upper
252 100
253 36.7 27.8 41.8
125 28.1 22.7 34.1



#40
Dibenzo(a,h)anthracene
Concen: 0.545 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.006 min
Lab File: BN036588.D
Acq: 11 Mar 2025 19:09

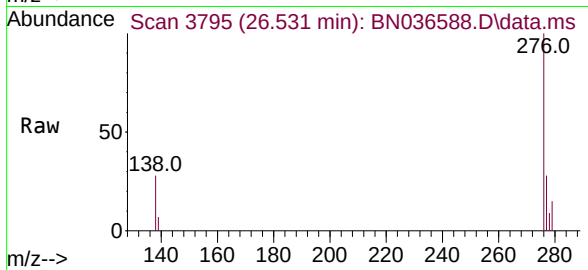
Tgt Ion:278 Resp: 3176
Ion Ratio Lower Upper
278 100
139 25.6 20.8 31.2
279 41.0 28.8 43.2



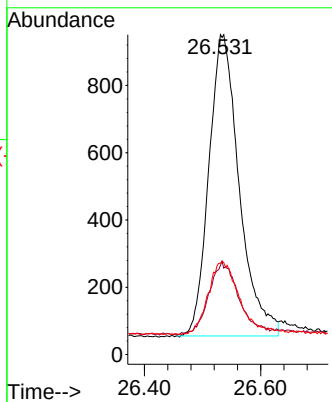
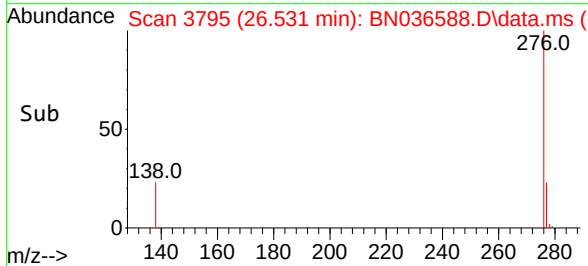


#41
 Benzo(g,h,i)perylene
 Concen: 0.489 ng
 RT: 26.531 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN036588.D
 Acq: 11 Mar 2025 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PB167057BS



Tgt Ion:	276	Resp:	3258
Ion Ratio	Lower	Upper	
276	100		
277	27.9	22.2	33.4
138	28.5	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
 Data File : BN036589.D
 Acq On : 11 Mar 2025 19:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 12 01:09:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

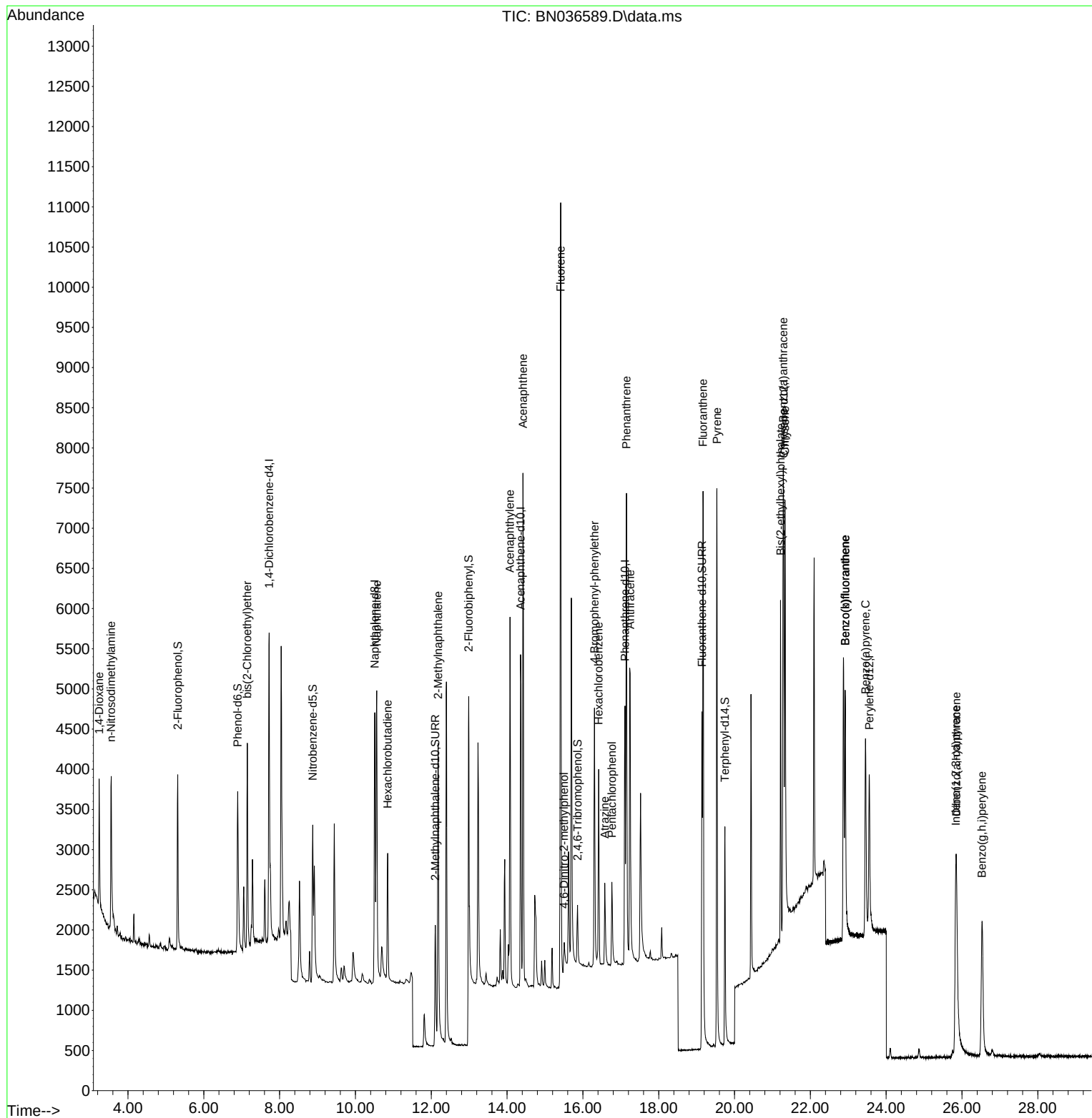
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1964	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4774	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2543	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	5156	0.400	ng	0.00
29) Chrysene-d12	21.295	240	3498	0.400	ng	0.00
35) Perylene-d12	23.554	264	2998	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1585	0.346	ng	0.00
5) Phenol-d6	6.894	99	1840	0.325	ng	0.00
8) Nitrobenzene-d5	8.875	82	1860	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	2744	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	450	0.390	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	6396	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	5306	0.402	ng	0.00
31) Terphenyl-d14	19.745	244	3310	0.395	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	897	0.412	ng	98
3) n-Nitrosodimethylamine	3.550	42	1761	0.400	ng	95
6) bis(2-Chloroethyl)ether	7.147	93	1905	0.326	ng	99
9) Naphthalene	10.562	128	5442	0.388	ng	100
10) Hexachlorobutadiene	10.851	225	1336	0.404	ng	# 97
12) 2-Methylnaphthalene	12.182	142	3430	0.384	ng	100
16) Acenaphthylene	14.078	152	4983	0.415	ng	99
17) Acenaphthene	14.420	154	3052	0.389	ng	99
18) Fluorene	15.414	166	4246	0.400	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	375	0.430	ng	95
21) 4-Bromophenyl-phenylether	16.305	248	1311	0.406	ng	95
22) Hexachlorobenzene	16.416	284	1646	0.422	ng	98
23) Atrazine	16.578	200	1043	0.403	ng	98
24) Pentachlorophenol	16.764	266	661	0.372	ng	100
25) Phenanthrene	17.149	178	6304	0.408	ng	99
26) Anthracene	17.248	178	5453	0.391	ng	99
28) Fluoranthene	19.169	202	7017	0.404	ng	99
30) Pyrene	19.536	202	7087	0.414	ng	100
32) Benzo(a)anthracene	21.286	228	4721	0.388	ng	100
33) Chrysene	21.331	228	5431	0.409	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3858	0.445	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	4281	0.396	ng	95
37) Benzo(b)fluoranthene	22.920	252	4544	0.416	ng	97
38) Benzo(k)fluoranthene	22.920	252	4544	0.397	ng	98
39) Benzo(a)pyrene	23.455	252	3929	0.428	ng	# 92
40) Dibenzo(a,h)anthracene	25.852	278	3325	0.395	ng	98
41) Benzo(g,h,i)perylene	26.528	276	3963	0.411	ng	97

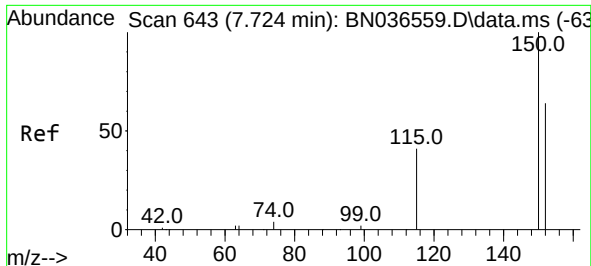
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031125\
Data File : BN036589.D
Acq On : 11 Mar 2025 19:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

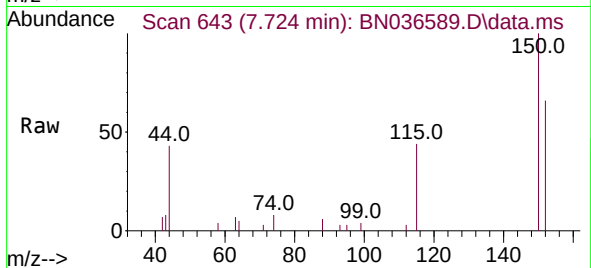
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



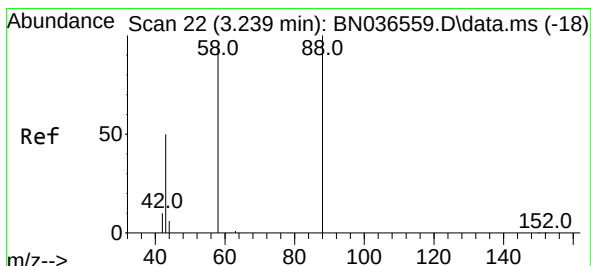
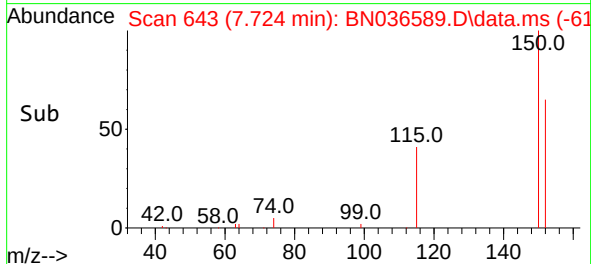
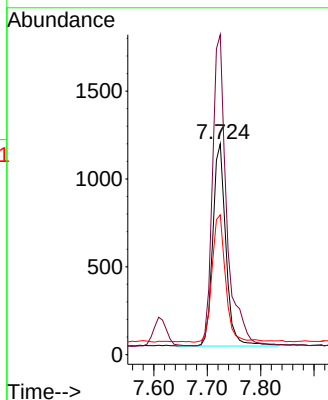


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

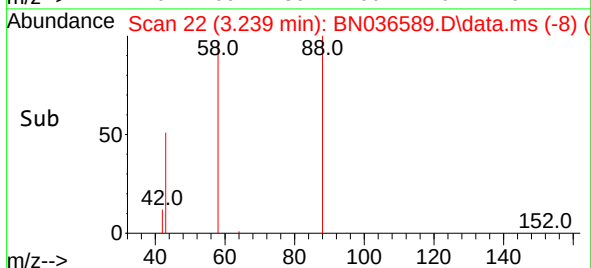
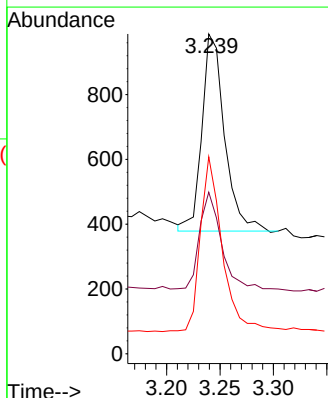
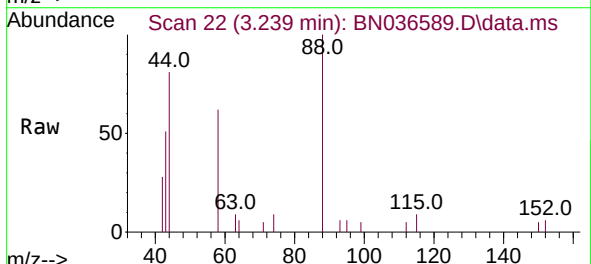


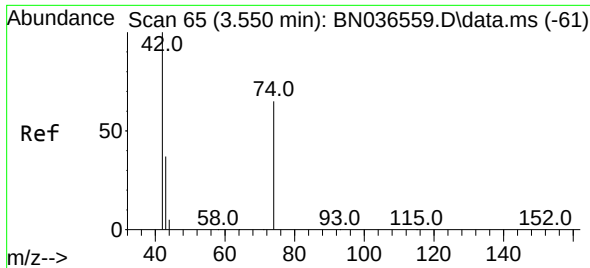
Tgt Ion:152 Resp: 1964
 Ion Ratio Lower Upper
 152 100
 150 151.7 123.7 185.5
 115 66.3 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.412 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Tgt Ion: 88 Resp: 897
 Ion Ratio Lower Upper
 88 100
 43 48.8 37.8 56.8
 58 86.1 67.4 101.2

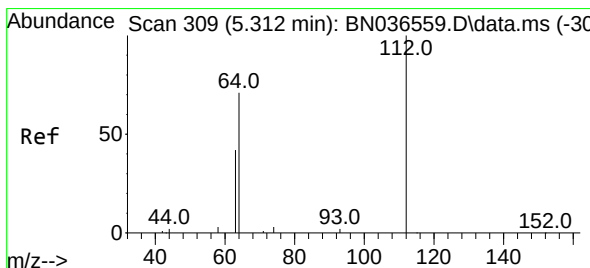
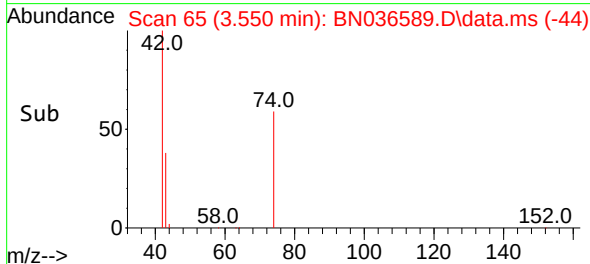
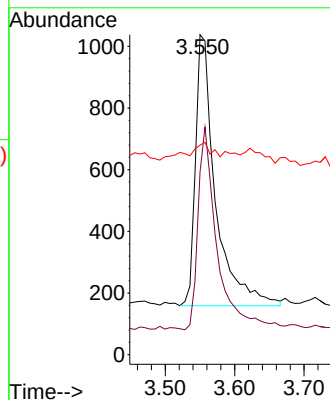
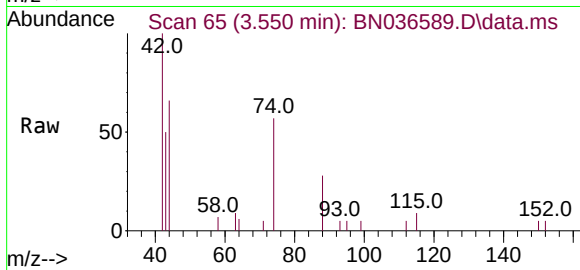




#3
 n-Nitrosodimethylamine
 Concen: 0.400 ng
 RT: 3.550 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

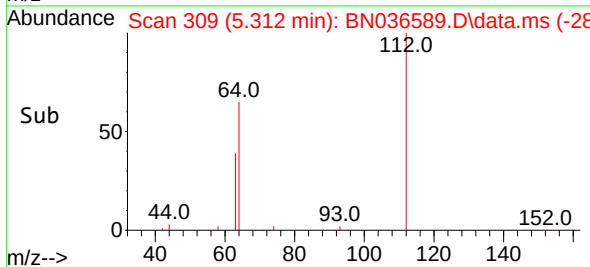
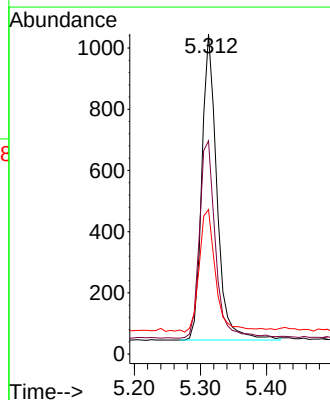
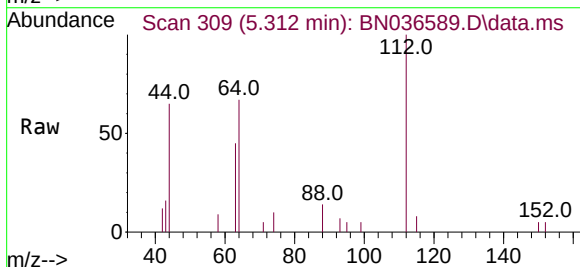
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

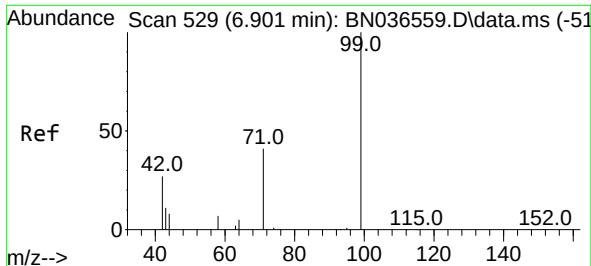
Tgt Ion:	42	Resp:	1761
Ion	Ratio	Lower	Upper
42	100		
74	71.6	60.6	90.8
44	8.3	6.3	9.5



#4
 2-Fluorophenol
 Concen: 0.346 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Tgt Ion:	112	Resp:	1585
Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	42.3	31.8	47.8

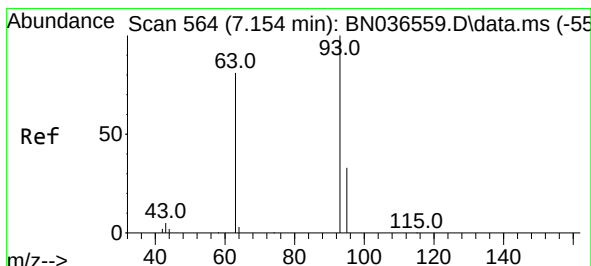
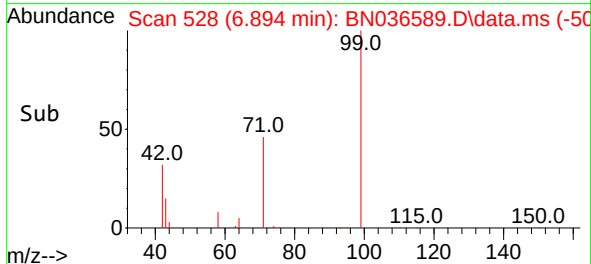
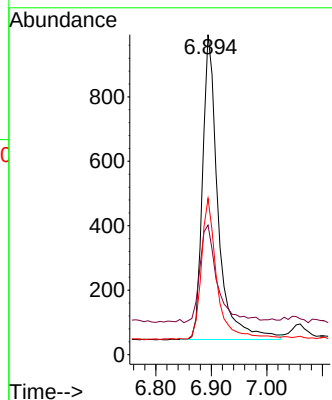
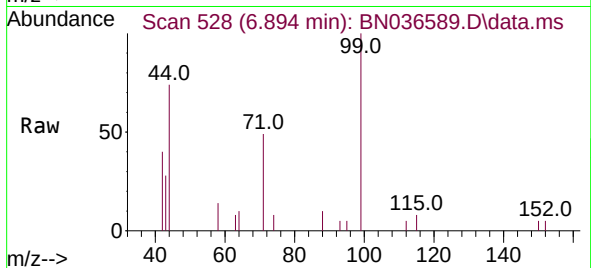




#5
Phenol-d6
Concen: 0.325 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

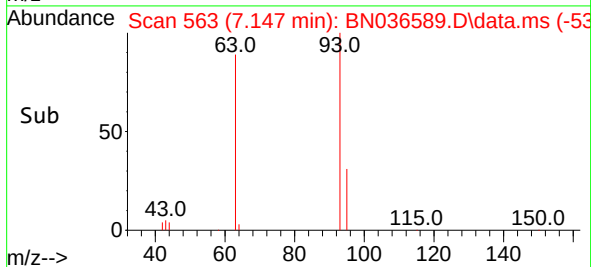
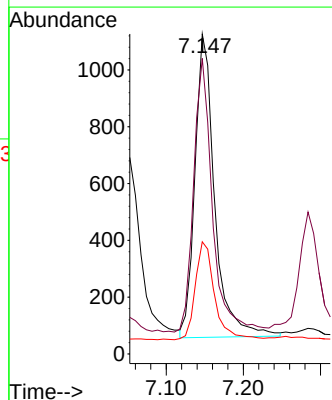
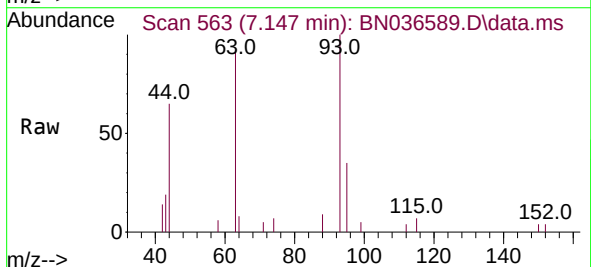
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

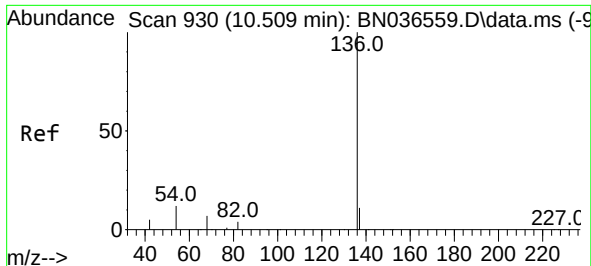
Tgt Ion: 99 Resp: 1840
Ion Ratio Lower Upper
99 100
42 36.8 26.5 39.7
71 46.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.326 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion: 93 Resp: 1905
Ion Ratio Lower Upper
93 100
63 85.9 67.7 101.5
95 31.6 25.6 38.4

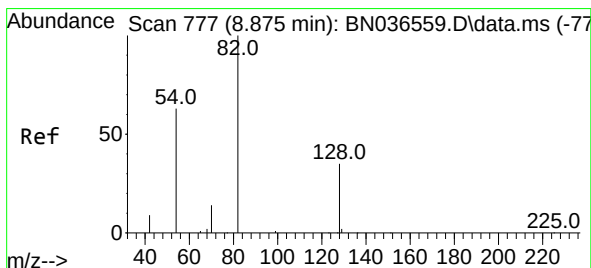
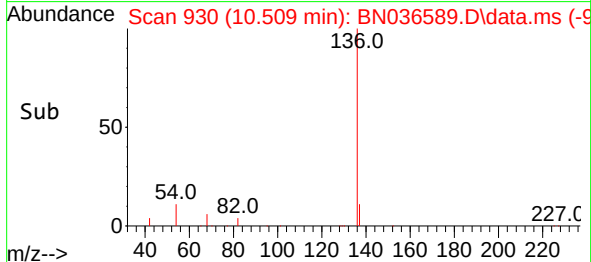
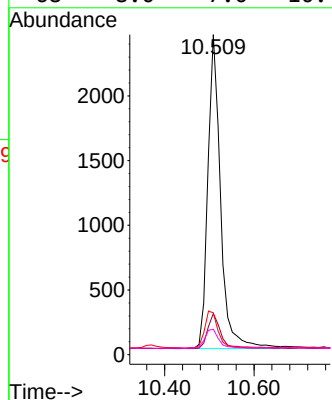
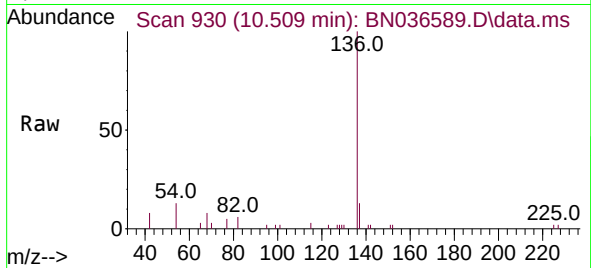




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

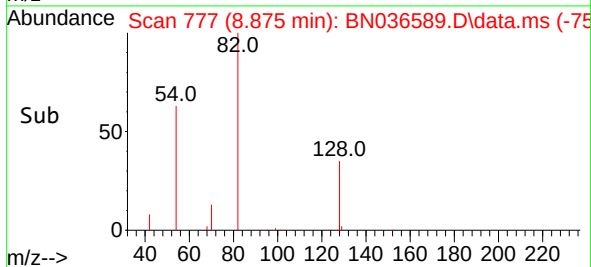
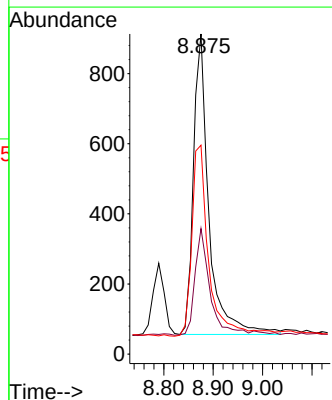
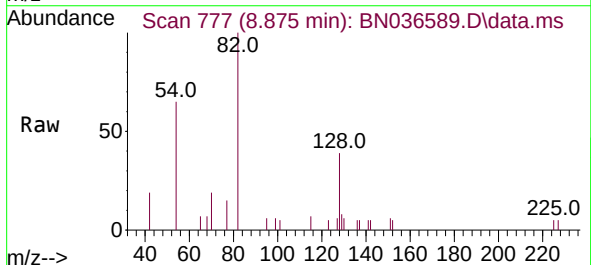
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

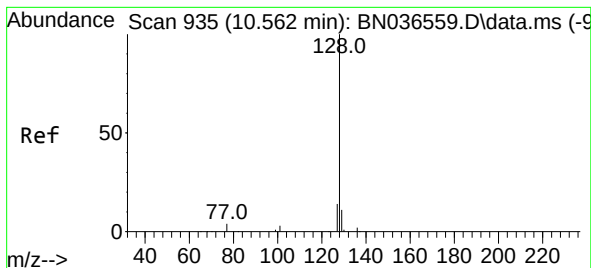
Tgt Ion:	136	Resp:	4774
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	13.1	11.5	17.3
68	8.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:	82	Resp:	1860
Ion	Ratio	Lower	Upper
82	100		
128	39.2	30.6	45.8
54	65.3	52.2	78.4





#9

Naphthalene

Concen: 0.388 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

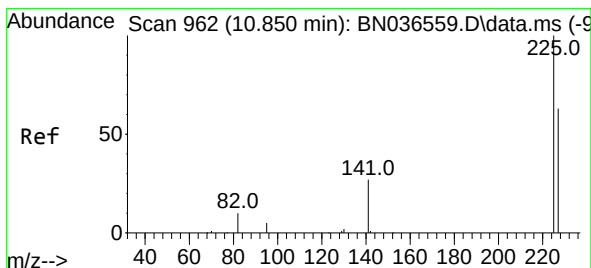
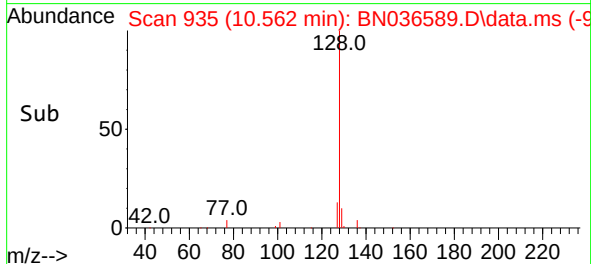
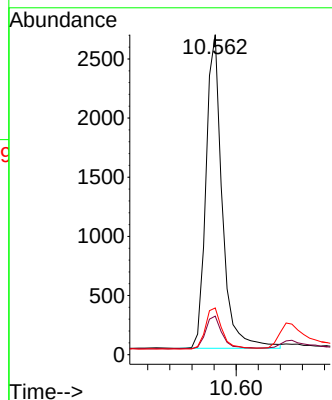
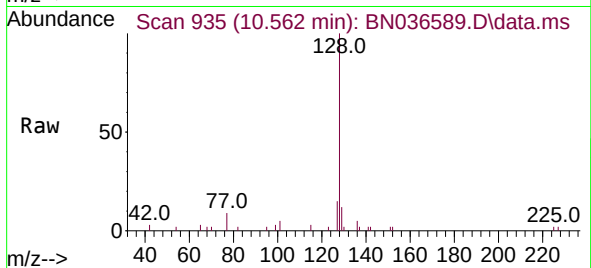
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	128	Resp:	5442
Ion Ratio	Lower	Upper	
128	100		
129	12.1	9.8	14.6
127	14.6	11.8	17.8



#10

Hexachlorobutadiene

Concen: 0.404 ng

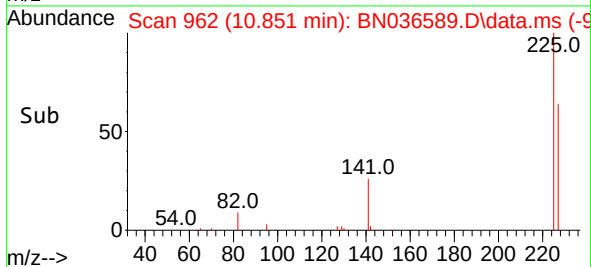
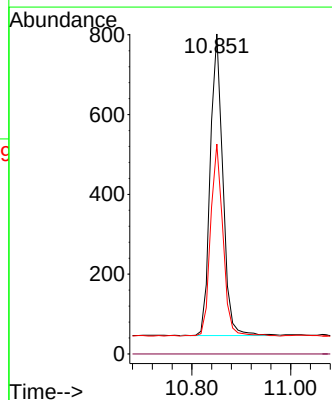
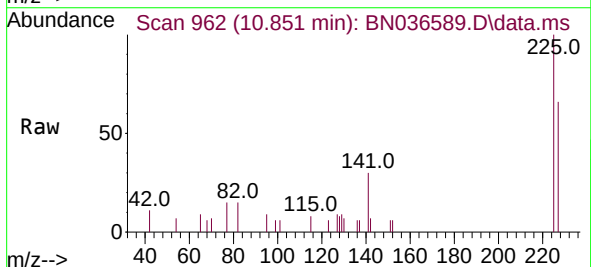
RT: 10.851 min Scan# 962

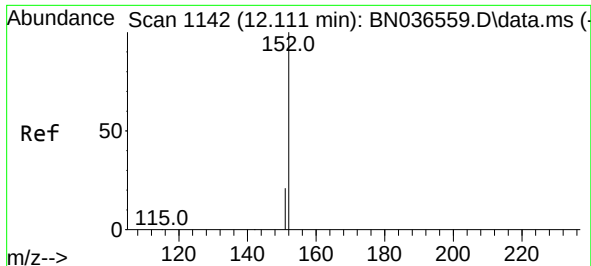
Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Tgt Ion:	225	Resp:	1336
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.6	51.8	77.8

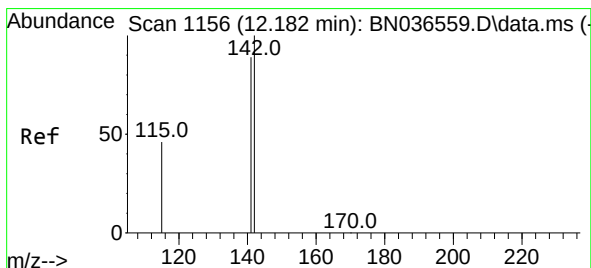
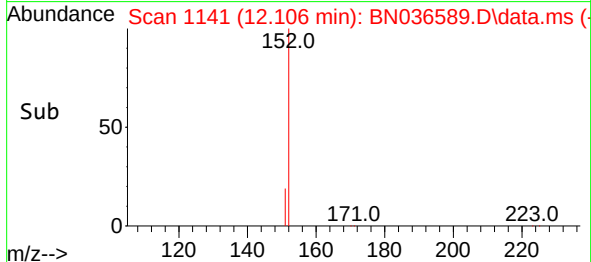
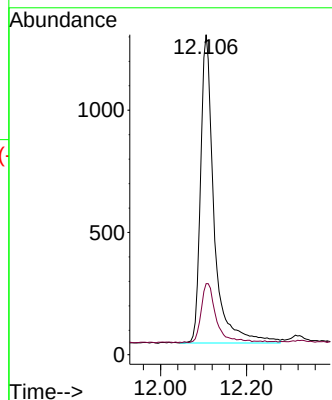
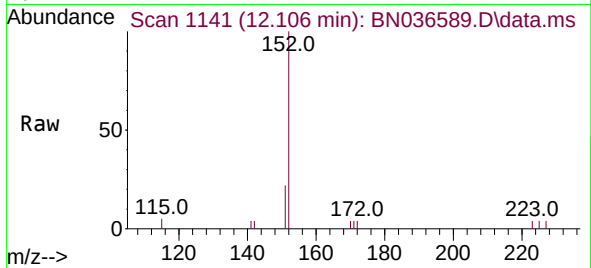




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

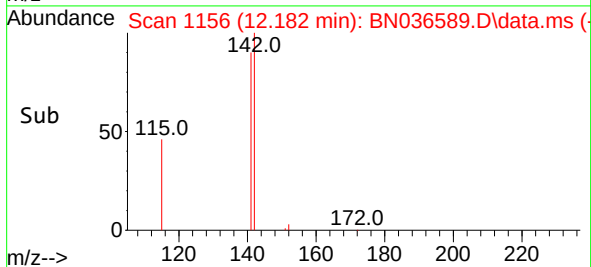
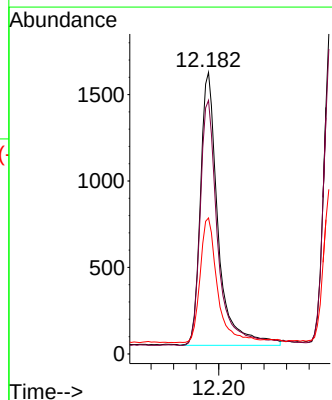
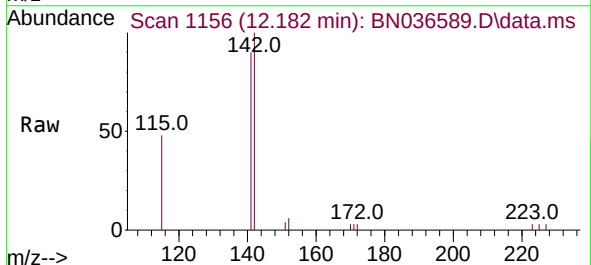
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

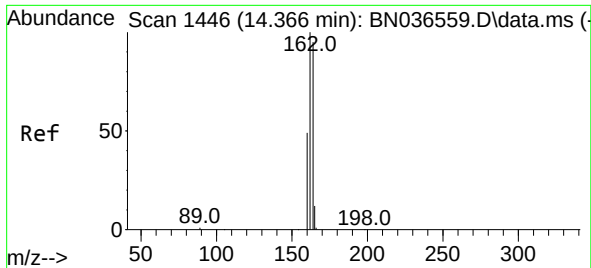
Tgt Ion:152 Resp: 2744
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:142 Resp: 3430
Ion Ratio Lower Upper
142 100
141 90.1 71.7 107.5
115 48.3 38.3 57.5

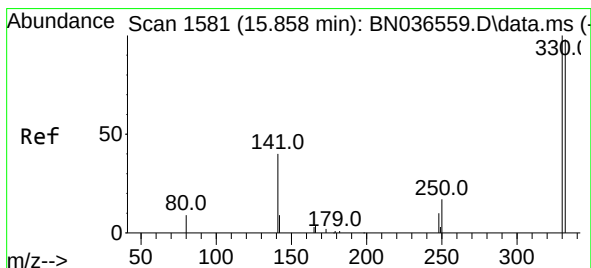
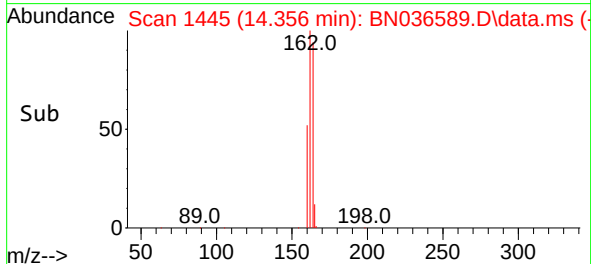
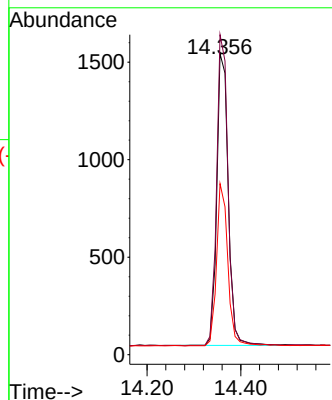
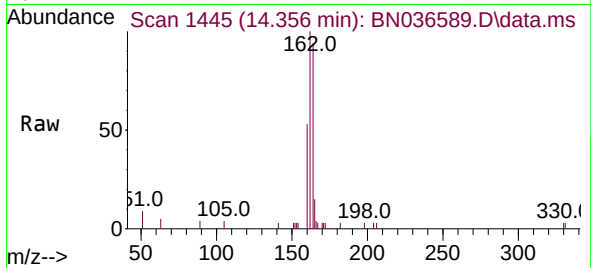




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

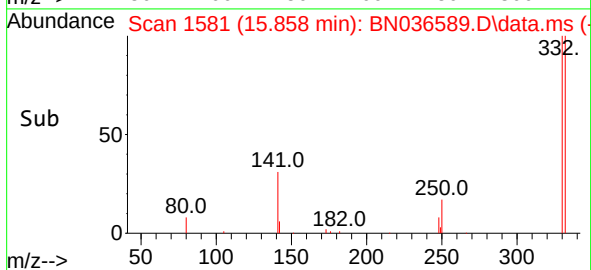
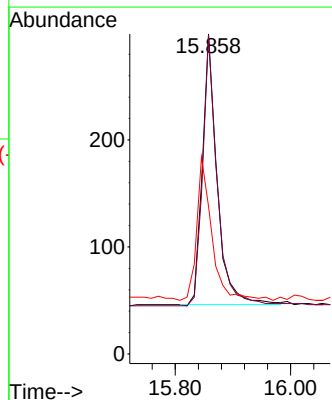
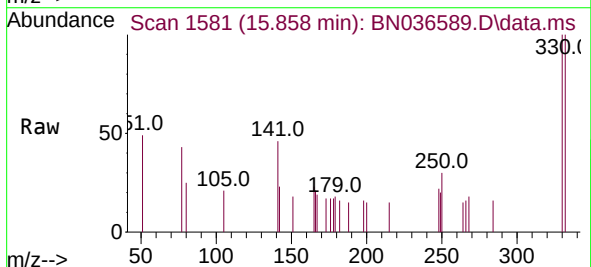
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

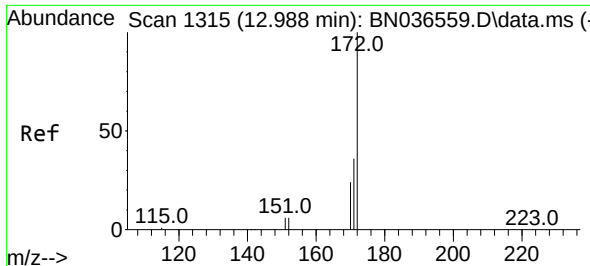
Tgt Ion:164 Resp: 2543
Ion Ratio Lower Upper
164 100
162 106.4 84.2 126.2
160 56.8 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:330 Resp: 450
Ion Ratio Lower Upper
330 100
332 98.7 75.2 112.8
141 54.2 43.4 65.2

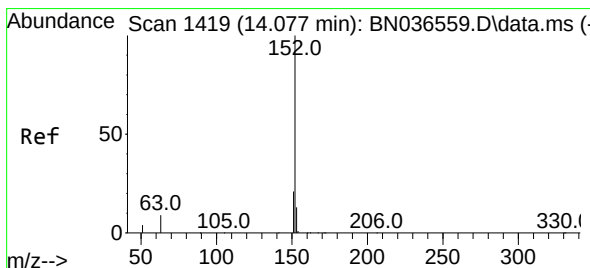
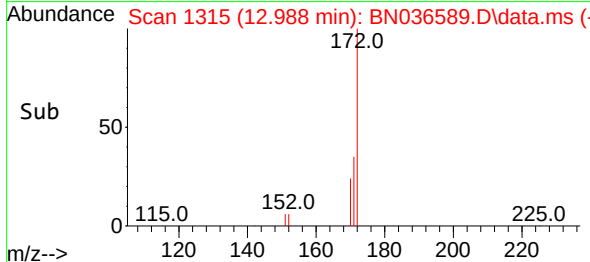
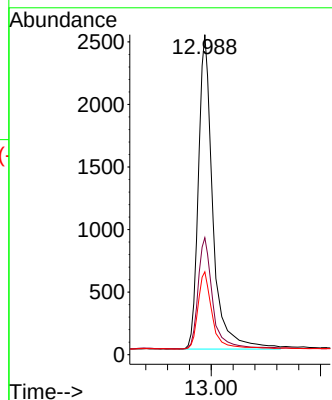
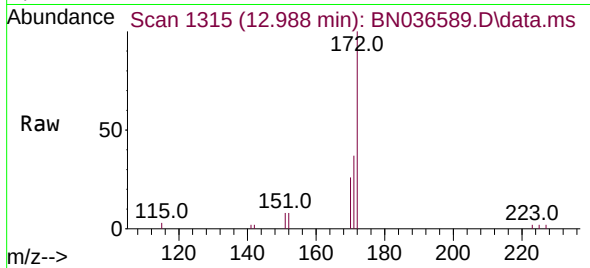




#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

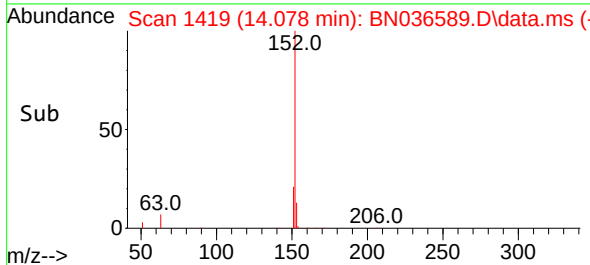
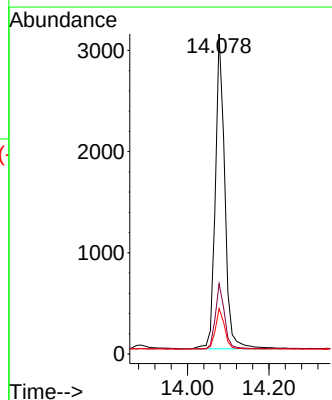
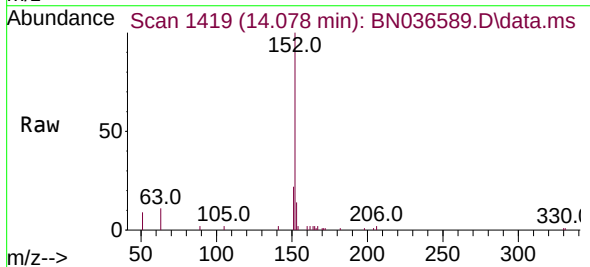
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

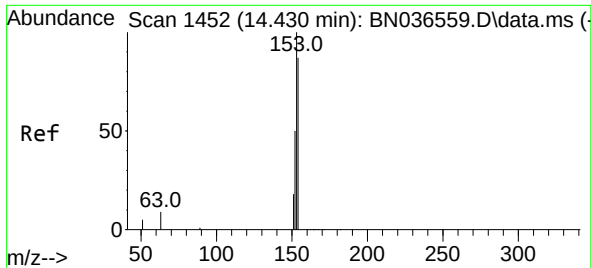
Tgt Ion:172	Resp:	6396
Ion Ratio	Lower	Upper
172	100	
171	36.6	29.5 44.3
170	25.9	20.2 30.4



#16
Acenaphthylene
Concen: 0.415 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:152	Resp:	4983
Ion Ratio	Lower	Upper
152	100	
151	20.1	16.2 24.4
153	12.7	10.6 15.8

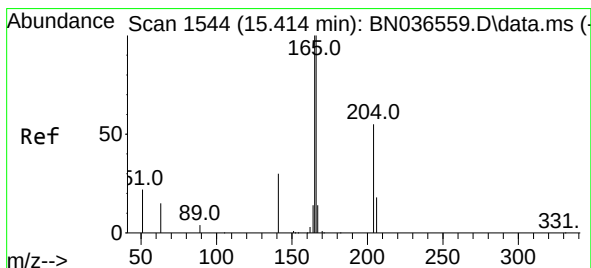
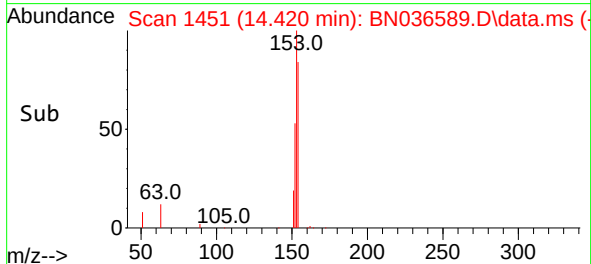
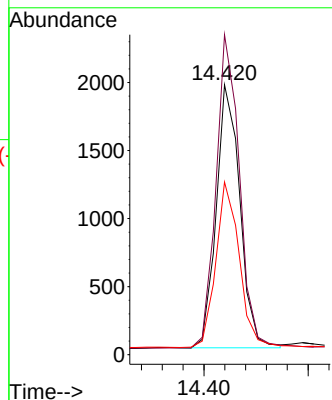
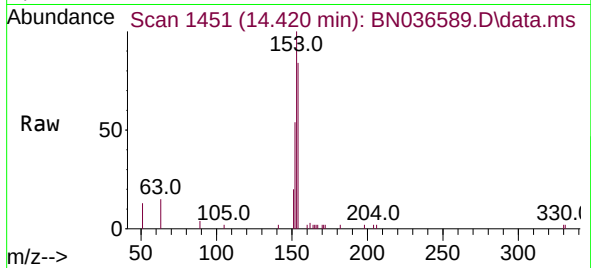




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

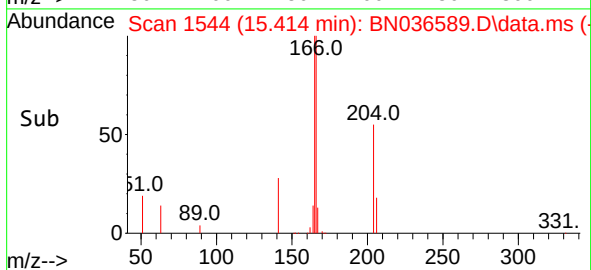
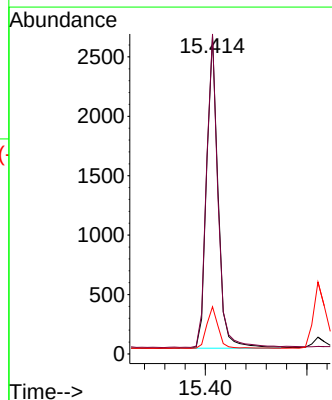
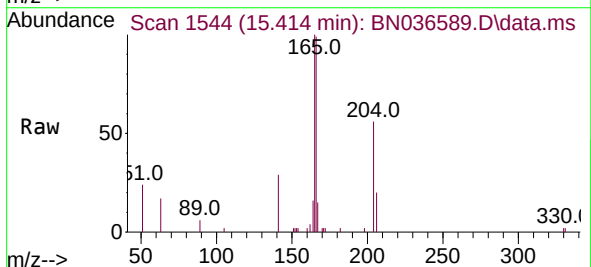
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

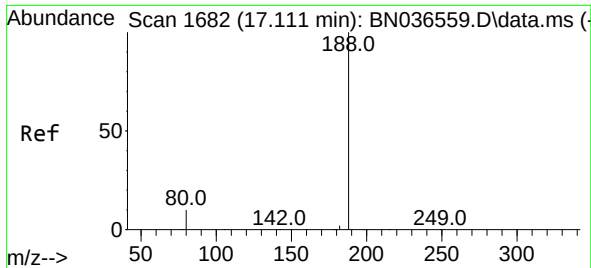
Tgt Ion:154 Resp: 3052
Ion Ratio Lower Upper
154 100
153 118.9 94.1 141.1
152 63.0 49.8 74.6



#18
Fluorene
Concen: 0.400 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:166 Resp: 4246
Ion Ratio Lower Upper
166 100
165 100.0 79.8 119.8
167 13.3 10.6 15.8

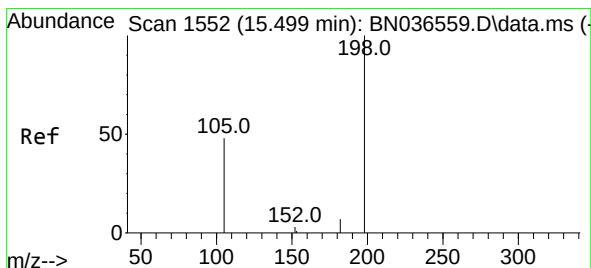
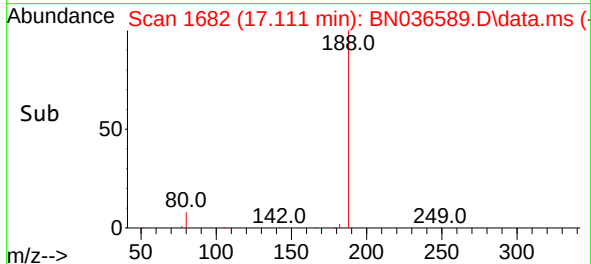
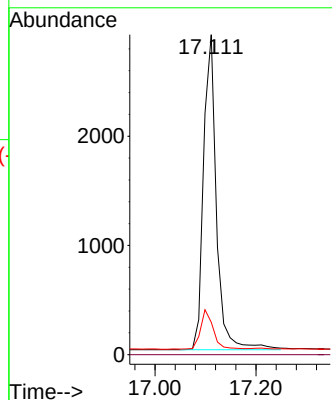
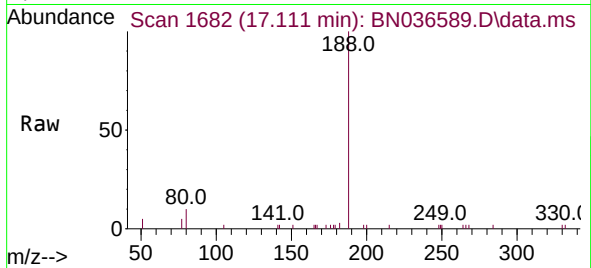




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

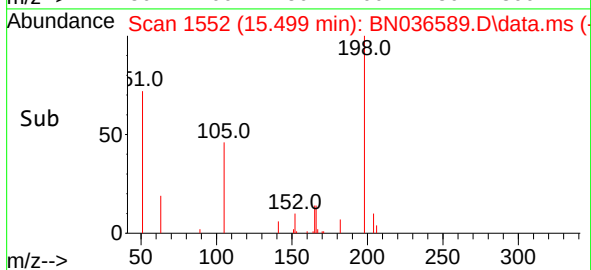
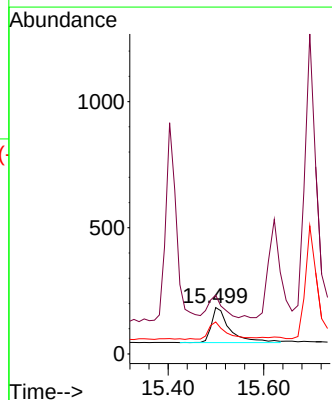
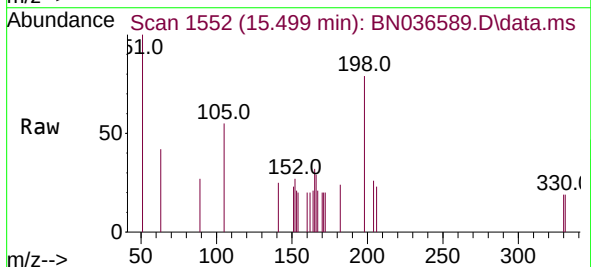
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

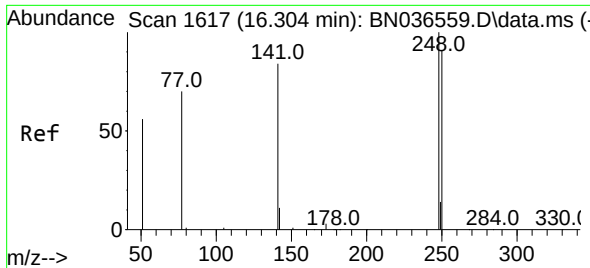
Tgt Ion:188 Resp: 5156
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.430 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:198 Resp: 375
Ion Ratio Lower Upper
198 100
51 126.6 107.9 161.9
105 69.0 56.2 84.2

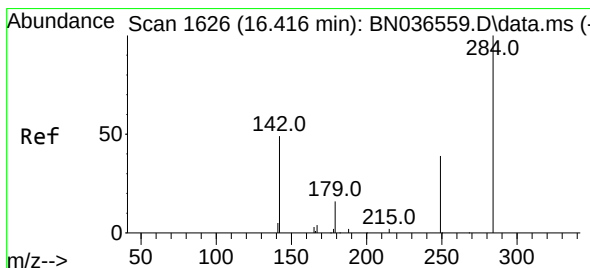
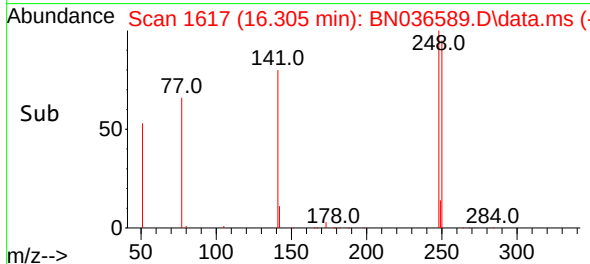
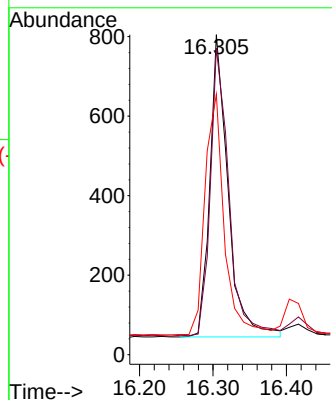
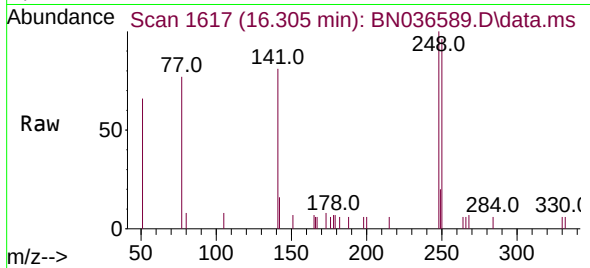




#21
4-Bromophenyl-phenylether
Concen: 0.406 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

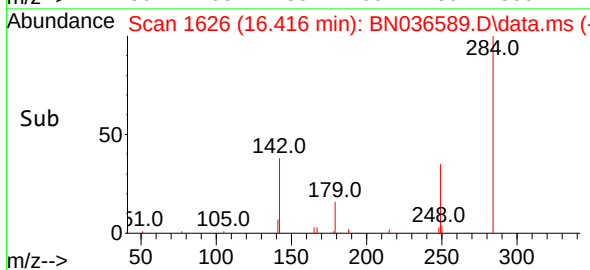
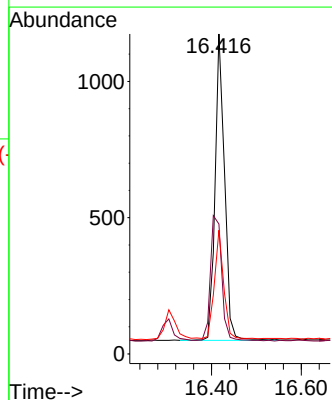
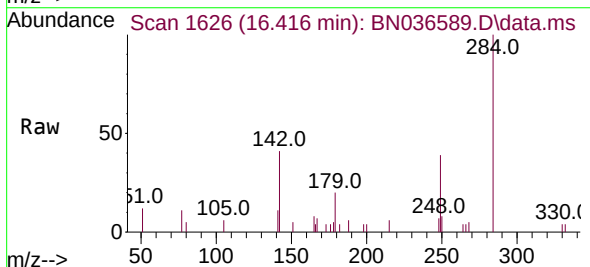
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

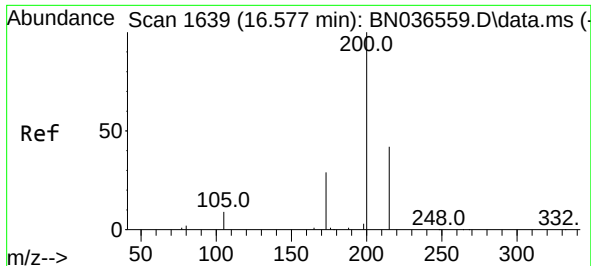
Tgt Ion:	248	Resp:	1311
Ion	Ratio	Lower	Upper
248	100		
250	95.8	73.0	109.6
141	81.4	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.422 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:	284	Resp:	1646
Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	34.7	28.1	42.1

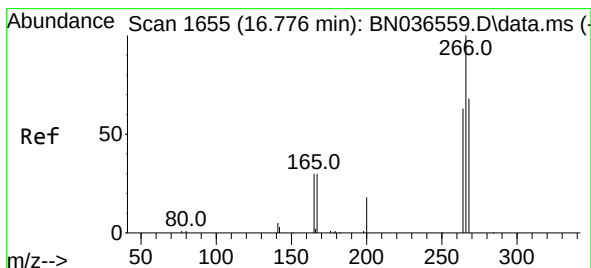
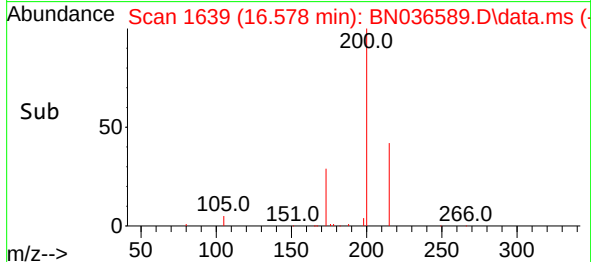
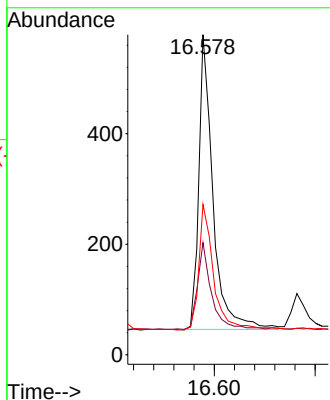
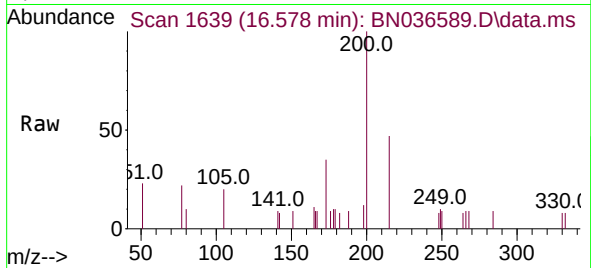




#23
Atrazine
Concen: 0.403 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

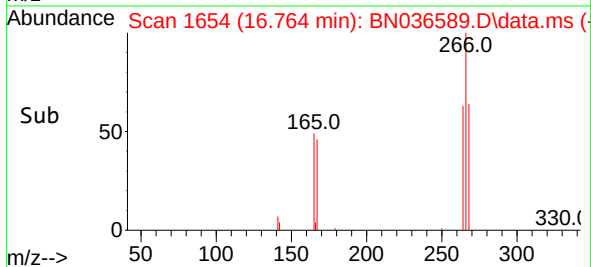
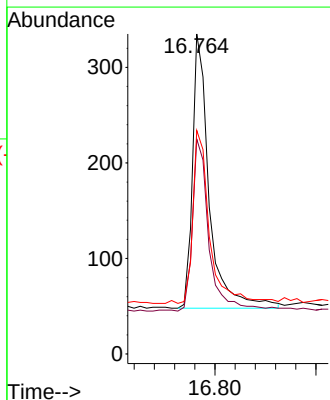
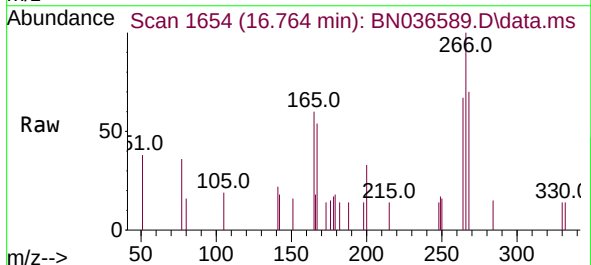
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

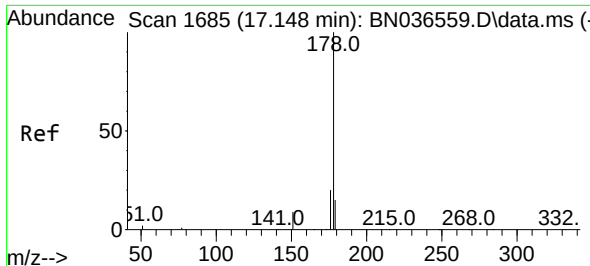
Tgt Ion:200 Resp: 1043
Ion Ratio Lower Upper
200 100
173 35.1 27.3 40.9
215 47.0 36.8 55.2



#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:266 Resp: 661
Ion Ratio Lower Upper
266 100
264 62.6 49.6 74.4
268 63.5 50.9 76.3

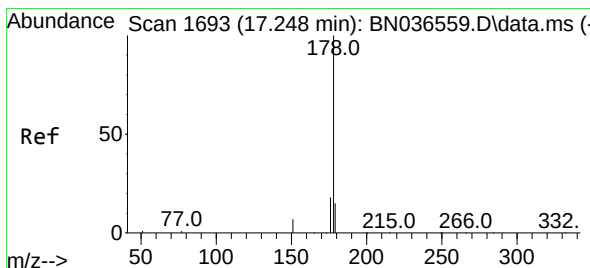
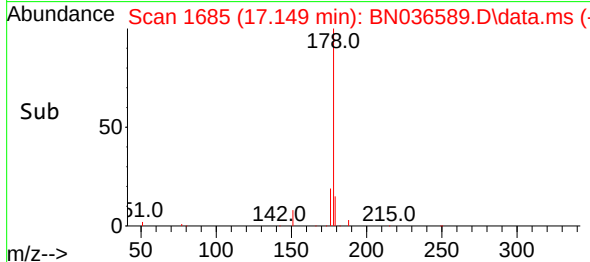
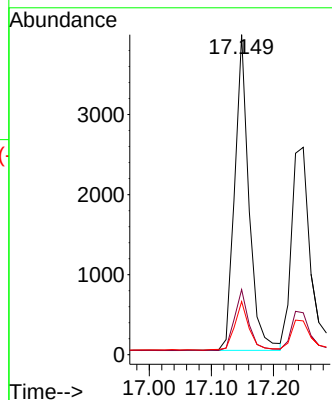
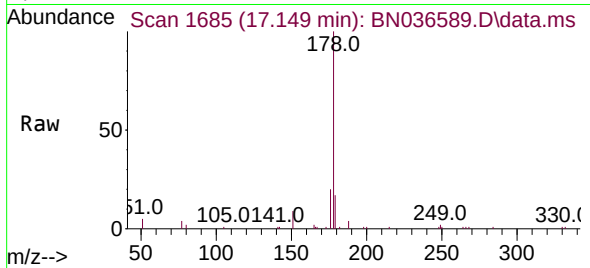




#25
Phenanthrene
Concen: 0.408 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

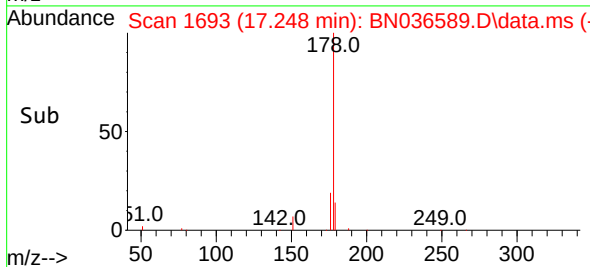
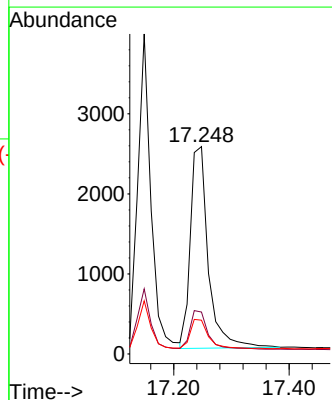
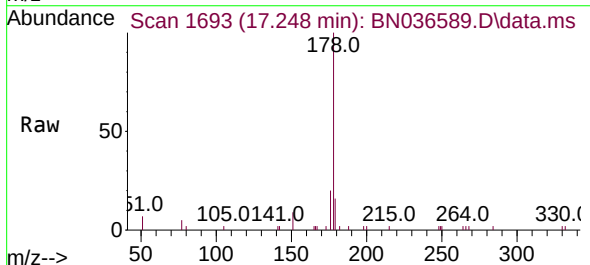
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

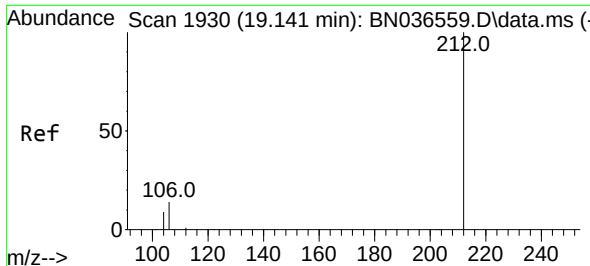
Tgt Ion:178 Resp: 6304
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.391 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:178 Resp: 5453
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

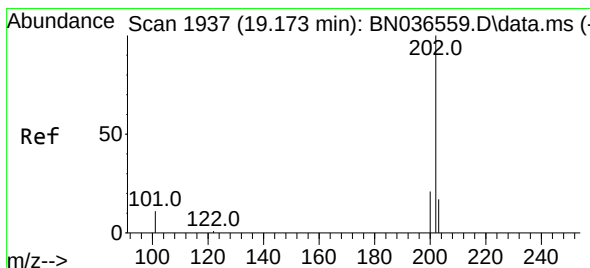
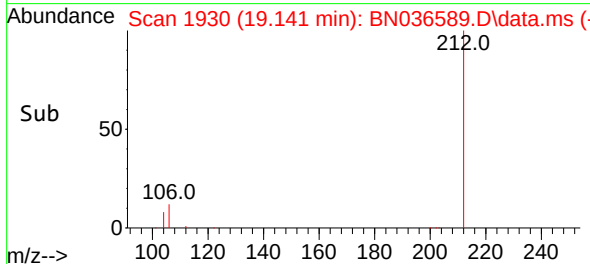
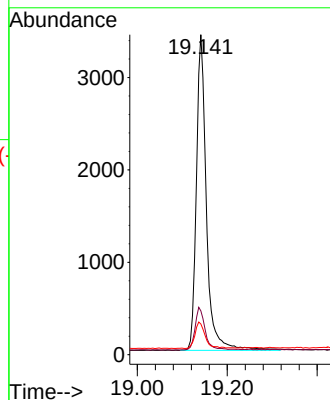
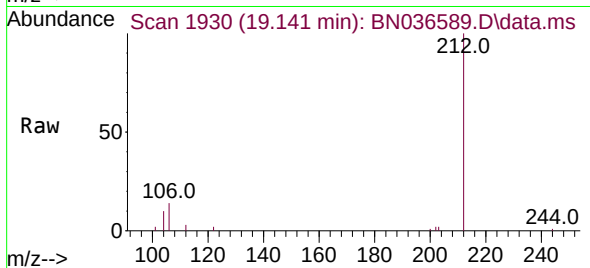
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	212	Resp:	5306
Ion Ratio	Lower	Upper	
212	100		
106	13.5	11.8	17.6
104	8.7	7.3	10.9



#28

Fluoranthene

Concen: 0.404 ng

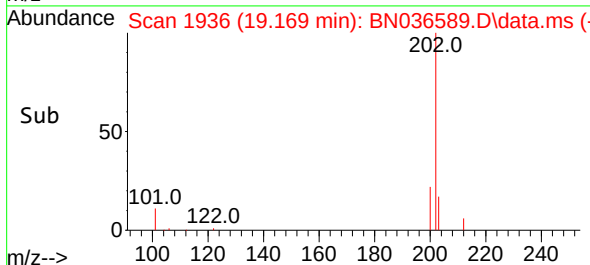
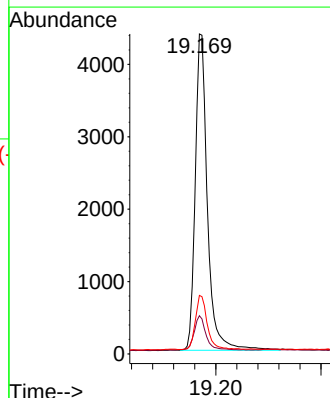
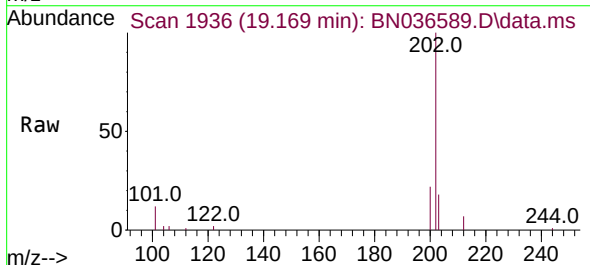
RT: 19.169 min Scan# 1936

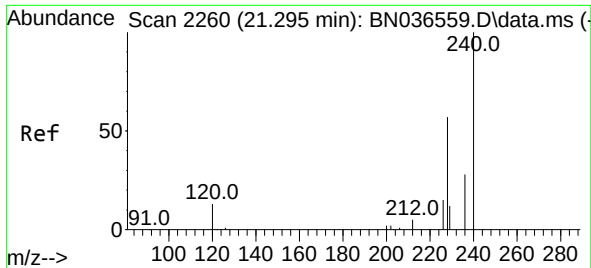
Delta R.T. -0.005 min

Lab File: BN036589.D

Acq: 11 Mar 2025 19:46

Tgt Ion:	202	Resp:	7017
Ion Ratio	Lower	Upper	
202	100		
101	10.6	9.4	14.0
203	16.7	13.5	20.3

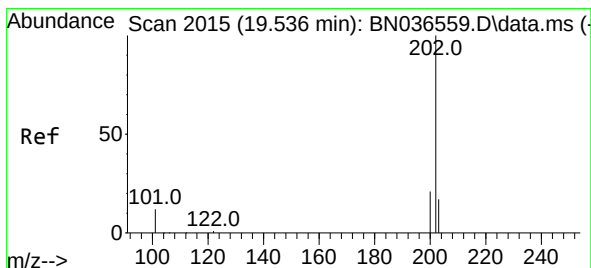
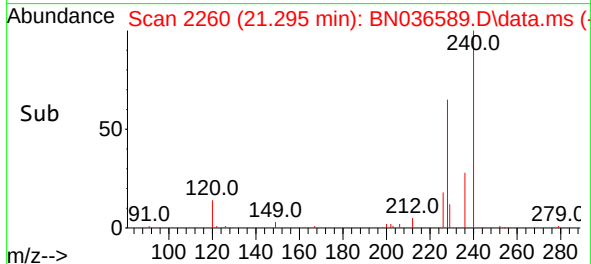
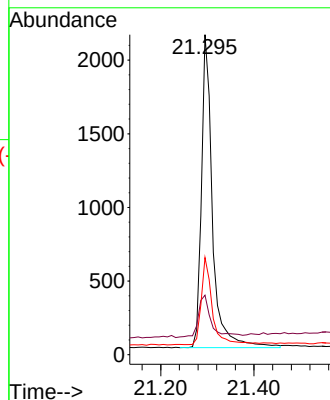
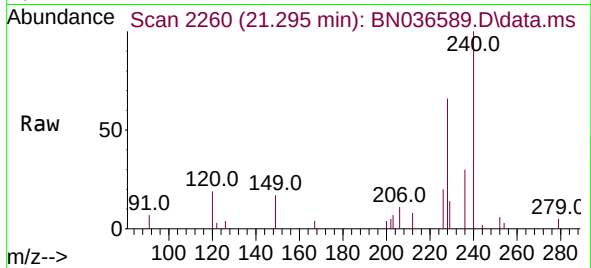




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

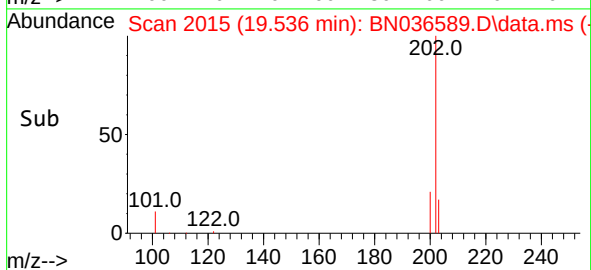
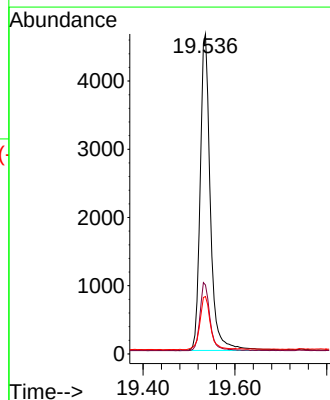
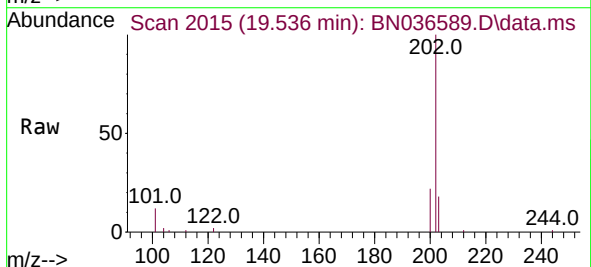
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

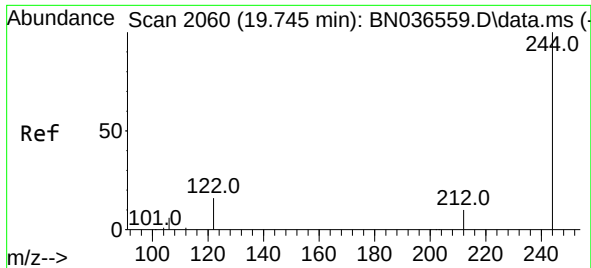
Tgt Ion:240 Resp: 3498
Ion Ratio Lower Upper
240 100
120 18.6 14.6 22.0
236 30.4 24.1 36.1



#30
Pyrene
Concen: 0.414 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:202 Resp: 7087
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.4 14.1 21.1

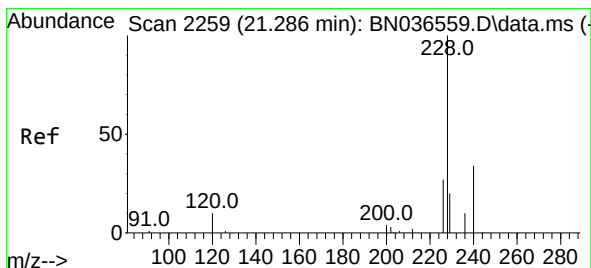
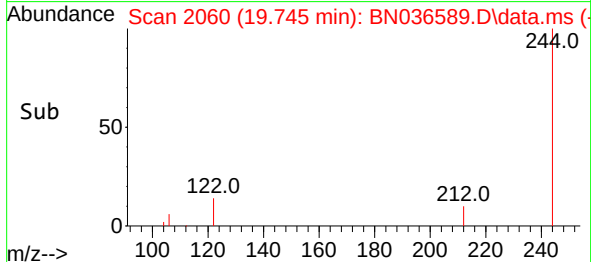
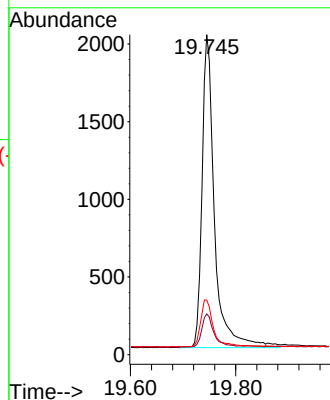
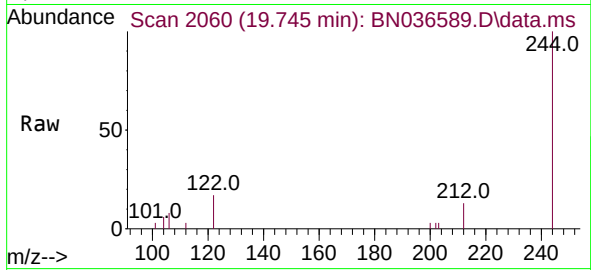




#31
 Terphenyl-d14
 Concen: 0.395 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

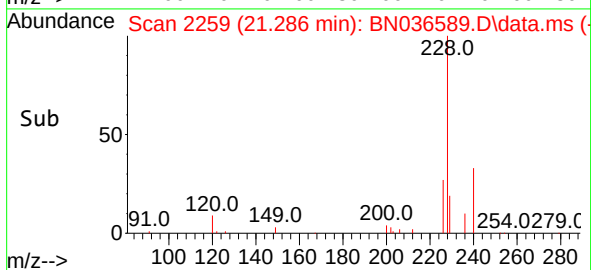
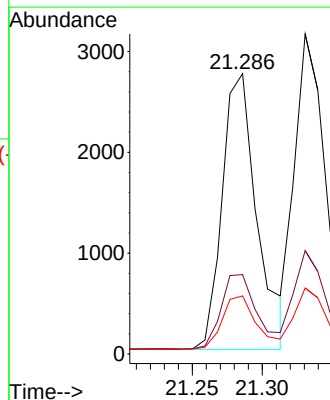
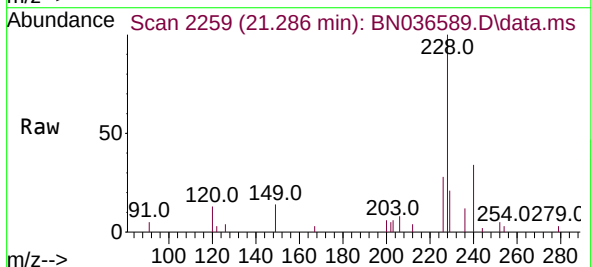
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

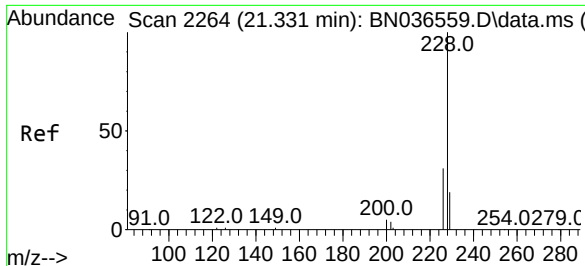
Tgt Ion:244 Resp: 3310
 Ion Ratio Lower Upper
 244 100
 212 12.7 9.6 14.4
 122 17.0 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.388 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Tgt Ion:228 Resp: 4721
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.5 33.7
 229 20.7 16.6 25.0

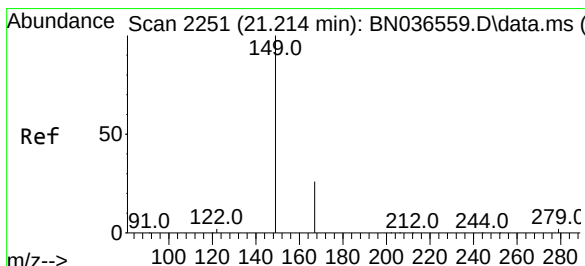
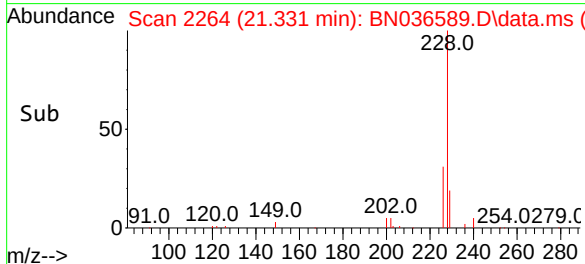
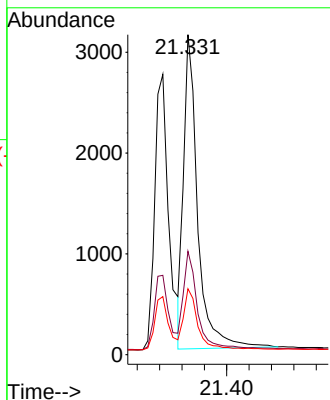
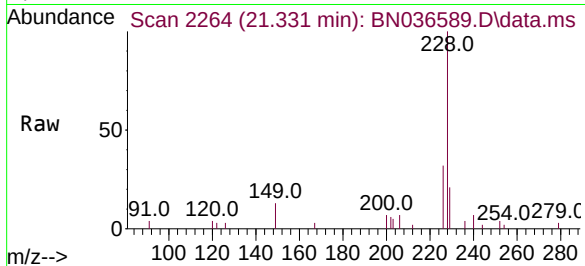




#33
Chrysene
Concen: 0.409 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

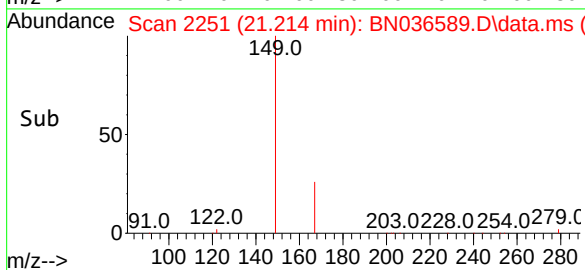
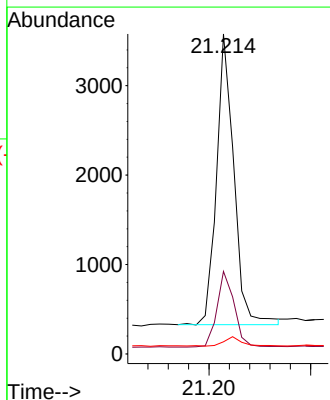
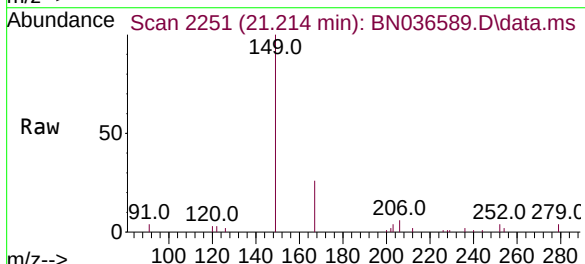
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

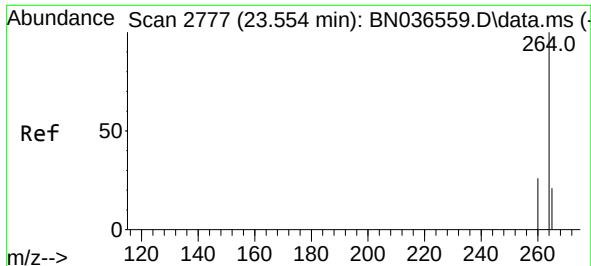
Tgt Ion:228	Resp:	5431
Ion Ratio	Lower	Upper
228	100	
226	32.3	25.3 37.9
229	20.6	15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.445 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

Tgt Ion:149	Resp:	3858
Ion Ratio	Lower	Upper
149	100	
167	26.0	20.7 31.1
279	3.2	3.6 5.4

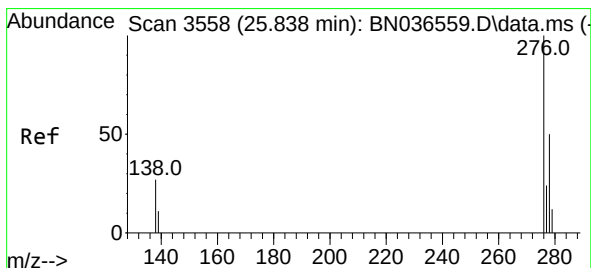
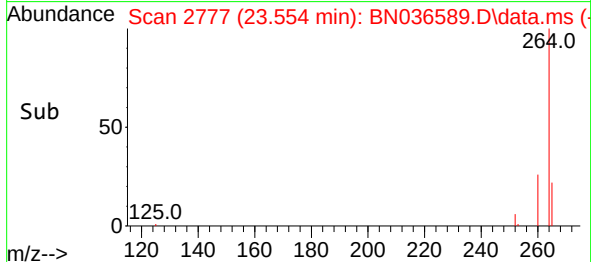
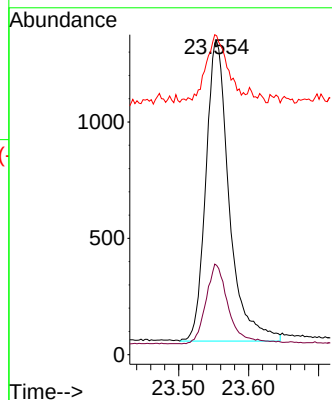
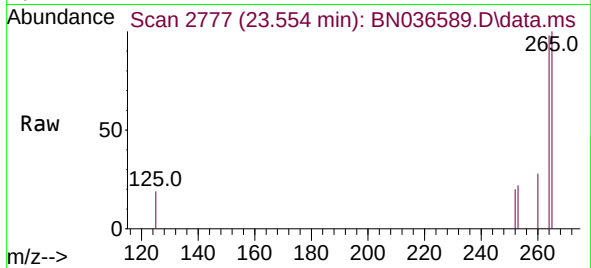




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.554 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

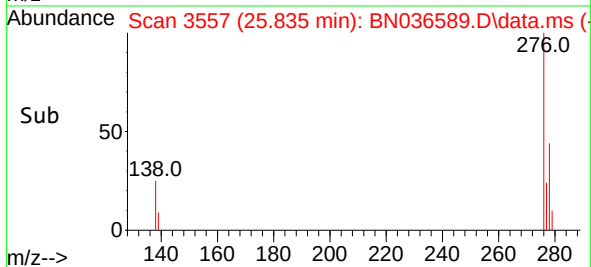
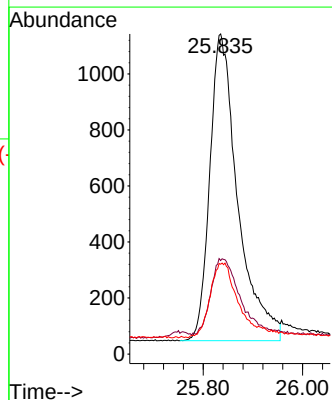
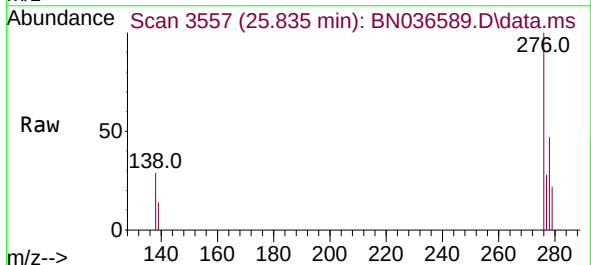
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

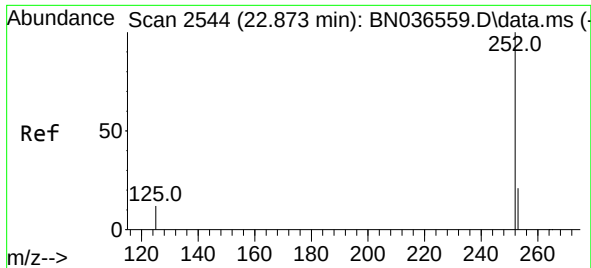
Tgt Ion:	264	Resp:	2998
Ion Ratio	Lower	Upper	
264	100		
260	28.5	22.6	33.8
265	101.7	88.1	132.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.396 ng
 RT: 25.835 min Scan# 3557
 Delta R.T. -0.003 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Tgt Ion:	276	Resp:	4281
Ion Ratio	Lower	Upper	
276	100		
138	25.6	23.4	35.2
277	23.5	20.0	30.0

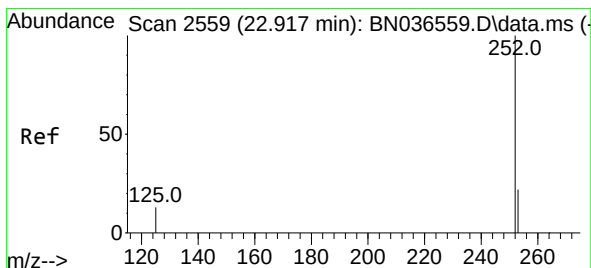
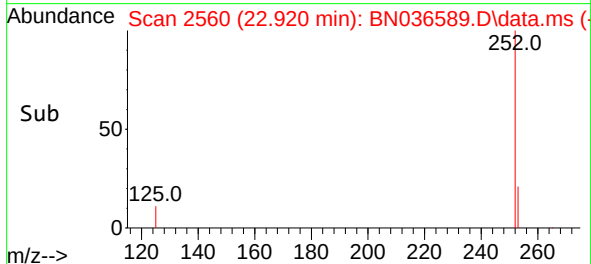
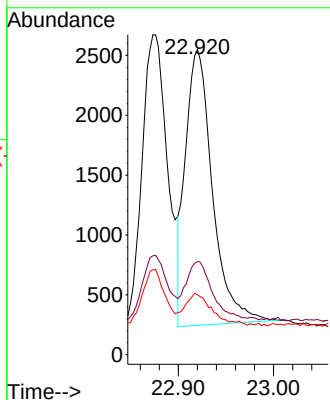
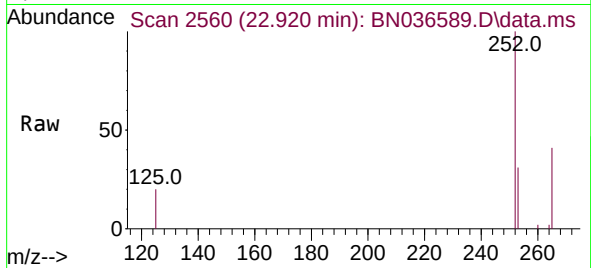




#37
Benzo(b)fluoranthene
Concen: 0.416 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.047 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

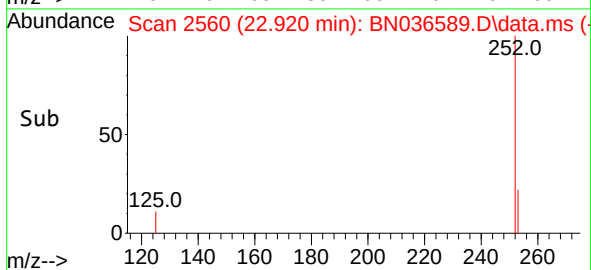
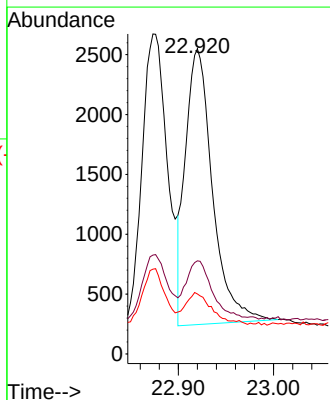
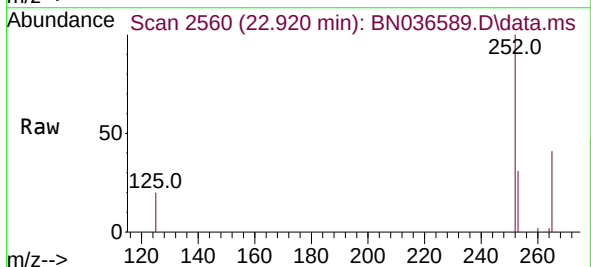
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

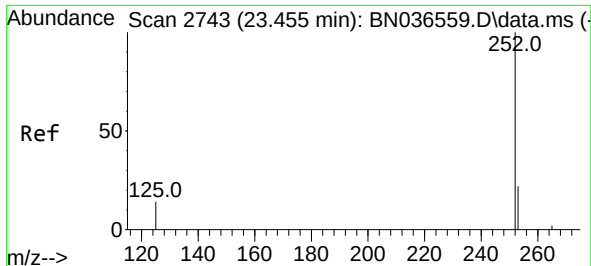
Tgt Ion:	252	Resp:	4544
Ion Ratio	Lower	Upper	
252	100		
253	30.5	23.9	35.9
125	19.7	17.4	26.2



#38
Benzo(k)fluoranthene
Concen: 0.397 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.003 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

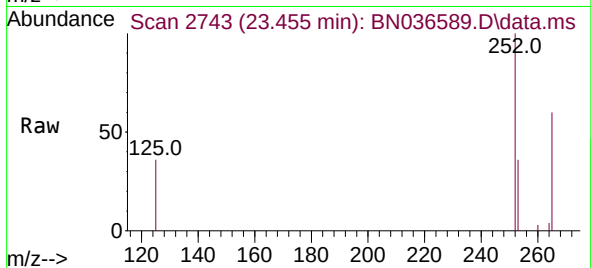
Tgt Ion:	252	Resp:	4544
Ion Ratio	Lower	Upper	
252	100		
253	30.5	24.6	36.8
125	19.7	17.8	26.8



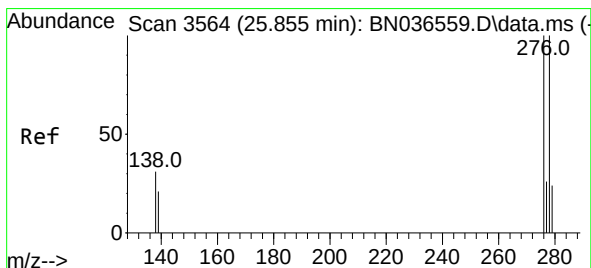
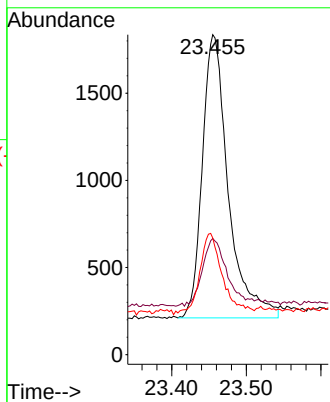
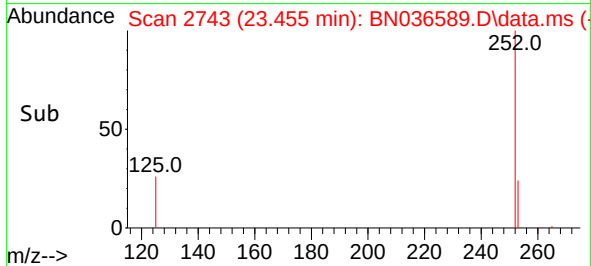


#39
Benzo(a)pyrene
Concen: 0.428 ng
RT: 23.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46

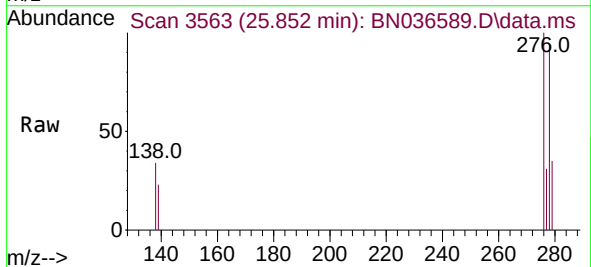
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



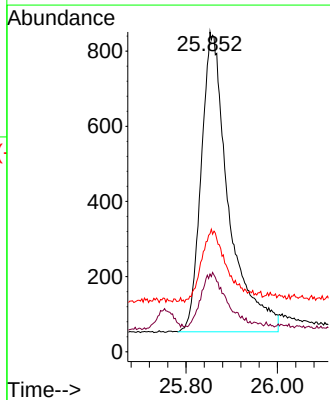
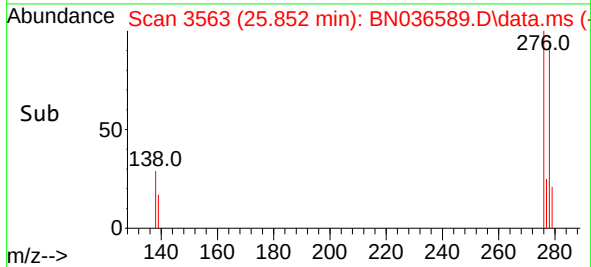
Tgt Ion:252 Resp: 3929
Ion Ratio Lower Upper
252 100
253 36.3 27.8 41.8
125 36.4 22.7 34.1#

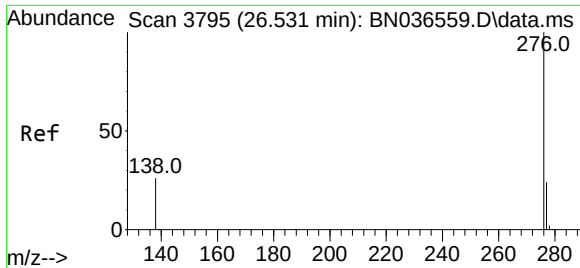


#40
Dibenzo(a,h)anthracene
Concen: 0.395 ng
RT: 25.852 min Scan# 3563
Delta R.T. -0.003 min
Lab File: BN036589.D
Acq: 11 Mar 2025 19:46



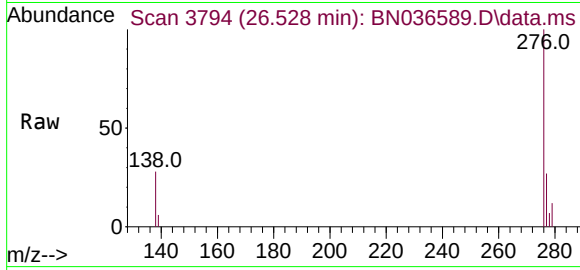
Tgt Ion:278 Resp: 3325
Ion Ratio Lower Upper
278 100
139 24.3 20.8 31.2
279 36.9 28.8 43.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.411 ng
 RT: 26.528 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: BN036589.D
 Acq: 11 Mar 2025 19:46

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	3963
Ion Ratio	Lower	Upper	
276	100		
277	26.8	22.2	33.4
138	28.0	24.1	36.1

