

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1502

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1502

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q1502-01
Q1502-02
Q1502-03
Q1502-04
Q1502-05
Q1502-06
Q1502-07
Q1502-08
Q1502-09
Q1502-10
Q1502-11
Q1502-12
Q1502-13
Q1502-14
Q1502-15
Q1502-16
Q1502-17
Q1502-18
Q1502-19
Q1502-20
Q1502-21
Q1502-22

Client Sample Number

PT-VOA-WP
PT-VOA-WP
PT-BN-WP
PT-BN-WP
PT-BN-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-PEST-WP
PT-PEST-WP
PT-CHLR-WP
PT-CHLR-WP
PT-TXP-WP
PT-TXP-WP
PT-PCBW-WP
PT-PCBW-WP
PT-HERB-WP
RR-GAS-WP
RR-DIES-WP
RR-8011-WP
RR-PAH-WP
RR-TRIAZINE-WP

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: 3/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Chemtech Project # Q1502

Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:

21 Water samples were received on 03/05/2025.

1 Water sample was received on 03/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for SVOCMS Group5.

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 SVOCMS Group5 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.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1557-04MS} with File ID: BN036611.D recoveries met the requirements for all compounds except for Anthracene[128%], Benzo(a)pyrene[133%], Benzo(b)fluoranthene[128%], Benzo(k)fluoranthene[138%], Chrysene[128%] and Dibenz(a,h)anthracene[123%], due to matrix interference.

The MSD {Q1557-05MSD} with File ID: BN036612.D recoveries met the acceptable requirements except for Anthracene[133%], Benzo(a)pyrene[145%], Benzo(b)fluoranthene[135%], Benzo(k)fluoranthene[140%], Chrysene[138%], Dibenz(a,h)anthracene[133%], Indeno(1,2,3-cd)pyrene[138%] and Phenanthrene[133%], due to matrix interference.

The RPD met criteria .



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The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Sample RR-PAH-WP was diluted due to high concentration.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1502

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.			
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 {Q1557-04MS} with File ID: BN036611.D recoveries met the requirements for all compounds except for Anthracene[128%], Benzo(a)pyrene[133%], Benzo(b)fluoranthene[128%], Benzo(k)fluoranthene[138%], Chrysene[128%] and Dibenz(a,h)anthracene[123%],due to matrix interference.			
The MSD {Q1557-05MSD} with File ID: BN036612.D recoveries met the acceptable requirements except for Anthracene[133%], Benzo(a)pyrene[145%], Benzo(b)fluoranthene[135%], Benzo(k)fluoranthene[140%], Chrysene[138%], Dibenz(a,h)anthracene[133%], Indeno(1,2,3-cd)pyrene[138%] and Phenanthrene[133%],)due to matrix interference.			
The Blank Spike met requirements for all samples .			
The Blank Spike Duplicate met requirements for all samples .			

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

Sample RR-PAH-WP was diluted due to high concentration.

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

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 #: Q1502

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: MOHAMMAD AHMED

Date: 03/27/2025

LAB CHRONICLE

OrderID:	Q1502	OrderDate:	3/6/2025 10:04:07 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1502-05	PT-BN-WP	Water			03/03/25			03/05/25
			SVOCMS Group3	8270-Modified		03/13/25	03/14/25	
Q1502-05DL	PT-BN-WPDL	Water			03/03/25			03/05/25
			SVOCMS Group3	8270-Modified		03/13/25	03/14/25	
Q1502-08	PT-ACIDS-WP	Water			03/03/25			03/05/25
			SVOCMS Group4	8270-Modified		03/13/25	03/14/25	
Q1502-08DL	PT-ACIDS-WPDL	Water			03/03/25			03/05/25
			SVOCMS Group4	8270-Modified		03/13/25	03/14/25	
Q1502-21	RR-PAH-WP	Water			03/03/25			03/05/25
			SVOCMS Group5	8270-Modified		03/13/25	03/14/25	
Q1502-21DL	RR-PAH-WPDL	Water			03/03/25			03/05/25
			SVOCMS Group5	8270-Modified		03/13/25	03/14/25	

Hit Summary Sheet SW-846

SDG No.: Q1502
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : RR-PAH-WP								
Q1502-21	RR-PAH-WP	WATER	Naphthalene	9.200	E	0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Acenaphthylene	4.400		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Acenaphthene	14.300	E	0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Fluorene	4.600		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Phenanthrene	3.100		0.03	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Anthracene	3.500		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Fluoranthene	3.900		0.03	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Pyrene	3.000		0.03	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Benzo(a)anthracene	0.850		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Chrysene	4.500		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Benzo(b)fluoranthene	4.100		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Benzo(k)fluoranthene	1.500		0.05	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Benzo(a)pyrene	1.900		0.04	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Indeno(1,2,3-cd)pyrene	3.700		0.05	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Dibenzo(a,h)anthracene	1.400		0.05	0.1	ug/L
Q1502-21	RR-PAH-WP	WATER	Benzo(g,h,i)perylene	2.100		0.04	0.1	ug/L

Total Svoc : 66.05
Total Concentration: 66.05

Client ID : RR-PAH-WPDL								
Q1502-21DL	RR-PAH-WPDL	WATER	Naphthalene	9.100	D	0.2	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Acenaphthylene	4.100	D	0.19	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Acenaphthene	13.500	D	0.19	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Fluorene	3.900	D	0.19	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Phenanthrene	3.000	D	0.17	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Anthracene	3.300	D	0.18	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Fluoranthene	4.000	D	0.17	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Pyrene	2.600	D	0.16	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Benzo(a)anthracene	0.780	D	0.18	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Chrysene	4.600	D	0.19	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Benzo(b)fluoranthene	4.000	D	0.18	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Benzo(k)fluoranthene	1.400	D	0.25	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Benzo(a)pyrene	1.900	D	0.21	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Indeno(1,2,3-cd)pyrene	3.500	D	0.23	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Dibenzo(a,h)anthracene	1.200	D	0.24	0.5	ug/L
Q1502-21DL	RR-PAH-WPDL	WATER	Benzo(g,h,i)perylene	2.100	D	0.21	0.5	ug/L

Total Svoc : 62.98

Hit Summary Sheet
SW-846

SDG No.: Q1502
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:		62.98			

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QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167128BL	PB167128BL	2-Methylnaphthalene-d10	0.4	0.30	74		20	139
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.30	74		27	154
		2-Fluorobiphenyl	0.4	0.25	62		25	149
		Terphenyl-d14	0.4	0.37	92		54	175
PB167128BS	PB167128BS	2-Methylnaphthalene-d10	0.4	0.36	90		20	139
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.34	84		27	154
		2-Fluorobiphenyl	0.4	0.39	98		25	149
		Terphenyl-d14	0.4	0.42	106		54	175
Q1502-21	RR-PAH-WP	2-Methylnaphthalene-d10	0.4	0.36	91		20	139
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.33	83		27	154
		2-Fluorobiphenyl	0.4	0.37	92		25	149
		Terphenyl-d14	0.4	0.41	102		54	175
Q1502-21DL	RR-PAH-WPDL	2-Methylnaphthalene-d10	0.4	0.37	91		20	139
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.30	75		27	154
		2-Fluorobiphenyl	0.4	0.28	70		25	149
		Terphenyl-d14	0.4	0.39	96		54	175
Q1557-04MS	BPOW6-9-20250312MS	2-Methylnaphthalene-d10	0.4	0.37	93		20	139
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.34	84		27	154
		2-Fluorobiphenyl	0.4	0.37	92		25	149
		Terphenyl-d14	0.4	0.65	163		54	175
Q1557-05MSD	BPOW6-9-20250312MSD	2-Methylnaphthalene-d10	0.4	0.39	96		20	139
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.36	89		27	154
		2-Fluorobiphenyl	0.4	0.41	102		25	149
		Terphenyl-d14	0.4	0.69	172		54	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q1557-04MS		Client Sample ID: BPOW6-9-20250312MS		DataFile: BN036611.D							
Naphthalene	0.4	0	0.41	ug/L	103				62	119	
Acenaphthylene	0.4	0	0.44	ug/L	110				53	123	
Acenaphthene	0.4	0	0.43	ug/L	108				57	122	
Fluorene	0.4	0	0.44	ug/L	110				58	123	
Phenanthrene	0.4	0	0.50	ug/L	125				64	129	
Anthracene	0.4	0	0.51	ug/L	128	*			67	127	
Fluoranthene	0.4	0	0.52	ug/L	130				55	140	
Pyrene	0.4	0	0.50	ug/L	125				59	137	
Benzo(a)anthracene	0.4	0	0.50	ug/L	125				51	146	
Chrysene	0.4	0	0.51	ug/L	128	*			61	126	
Benzo(b)fluoranthene	0.4	0	0.51	ug/L	128	*			60	123	
Benzo(k)fluoranthene	0.4	0	0.55	ug/L	138	*			61	122	
Benzo(a)pyrene	0.4	0	0.53	ug/L	133	*			54	129	
Indeno(1,2,3-cd)pyrene	0.4	0	0.52	ug/L	130				50	134	
Dibenz(a,h)anthracene	0.4	0	0.49	ug/L	123	*			53	121	
Benzo(g,h,i)perylene	0.4	0	0.48	ug/L	120				44	132	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1557-05MSD	Client Sample ID:	BPOW6-9-20250312MSD					DataFile:	BN036612.D		
Naphthalene	0.4	0	0.43	ug/L	108		5		62	119	20
Acenaphthylene	0.4	0	0.48	ug/L	120		9		53	123	20
Acenaphthene	0.4	0	0.47	ug/L	117		8		57	122	20
Fluorene	0.4	0	0.47	ug/L	117		6		58	123	20
Phenanthrene	0.4	0	0.53	ug/L	133	*	6		64	129	20
Anthracene	0.4	0	0.53	ug/L	133	*	4		67	127	20
Fluoranthene	0.4	0	0.55	ug/L	138		6		55	140	20
Pyrene	0.4	0	0.51	ug/L	128		2		59	137	20
Benzo(a)anthracene	0.4	0	0.54	ug/L	135		8		51	146	20
Chrysene	0.4	0	0.55	ug/L	138	*	8		61	126	20
Benzo(b)fluoranthene	0.4	0	0.54	ug/L	135	*	5		60	123	20
Benzo(k)fluoranthene	0.4	0	0.56	ug/L	140	*	1		61	122	20
Benzo(a)pyrene	0.4	0	0.58	ug/L	145	*	9		54	129	20
Indeno(1,2,3-cd)pyrene	0.4	0	0.55	ug/L	138	*	6		50	134	20
Dibenz(a,h)anthracene	0.4	0	0.53	ug/L	133	*	8		53	121	20
Benzo(g,h,i)perylene	0.4	0	0.50	ug/L	125		4		44	132	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN036630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB167128BS	Naphthalene	0.4	0.37	ug/L	93				67	120	
	Acenaphthylene	0.4	0.43	ug/L	108				60	119	
	Acenaphthene	0.4	0.40	ug/L	100				65	119	
	Fluorene	0.4	0.37	ug/L	93				58	122	
	Phenanthrene	0.4	0.42	ug/L	105				65	117	
	Anthracene	0.4	0.42	ug/L	105				57	118	
	Fluoranthene	0.4	0.36	ug/L	90				53	126	
	Pyrene	0.4	0.46	ug/L	115				54	124	
	Benzo(a)anthracene	0.4	0.39	ug/L	98				54	130	
	Chrysene	0.4	0.45	ug/L	113				64	126	
	Benzo(b)fluoranthene	0.4	0.38	ug/L	95				65	121	
	Benzo(k)fluoranthene	0.4	0.43	ug/L	108				72	119	
	Benzo(a)pyrene	0.4	0.45	ug/L	113				68	120	
	Indeno(1,2,3-cd)pyrene	0.4	0.48	ug/L	120				70	127	
	Dibenz(a,h)anthracene	0.4	0.47	ug/L	117				65	121	
	Benzo(g,h,i)perylene	0.4	0.45	ug/L	113				76	117	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167128BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q1502

SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: BN036634.D

Lab Sample ID: PB167128BL

Instrument ID: BNA_N

Date Extracted: 03/13/2025

Matrix: (soil/water) Water

Date Analyzed: 03/15/2025

Level: (low/med) LOW

Time Analyzed: 09:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167128BS	PB167128BS	BN036630.D	03/15/2025
RR-PAH-WP	Q1502-21	BN036603.D	03/14/2025
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025

COMMENTS: _____



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1502 SDG NO.: Q1502Lab 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	100.0
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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1502SDG NO.: Q1502Lab File ID: BN036600.DDFTPP Injection Date: 03/14/2025Instrument ID: BNA_NDFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	65.5
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	55.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	51.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	11 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036601.D	03/14/2025	10:09
RR-PAH-WP	Q1502-21	BN036603.D	03/14/2025	11:21
RR-PAH-WPDL	Q1502-21DL	BN036604.D	03/14/2025	12:11
BPOW6-9-20250312MS	Q1557-04MS	BN036611.D	03/14/2025	17:24
BPOW6-9-20250312MSD	Q1557-05MSD	BN036612.D	03/14/2025	18:00



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1502SDG NO.: Q1502Lab File ID: BN036614.DDFTPP Injection Date: 03/14/2025Instrument ID: BNA_NDFTPP Injection Time: 19:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.5
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	57.8
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	25.4
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	100.0
443	15.0 - 24.0% of mass 442	11 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036615.D	03/14/2025	20:30
PB167128BS	PB167128BS	BN036630.D	03/15/2025	05:28



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1502 SDG NO.: Q1502Lab File ID: BN036632.DDFTPP Injection Date: 03/15/2025Instrument ID: BNA_NDFTPP Injection Time: 06:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	55.9
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	52.7
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	25.6
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	11.3 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036633.D	03/15/2025	08:35
PB167128BL	PB167128BL	BN036634.D	03/15/2025	09:11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	2400	7.717	5723	10.51	3321	14.36
UPPER LIMIT	4800	8.217	11446	11.009	6642	14.855
LOWER LIMIT	1200	7.217	2861.5	10.009	1660.5	13.855
EPA SAMPLE NO.						
01 RR-PAH-WP	1837	7.72	4296	10.51	2463	14.36
02 RR-PAH-WPDL	1713	7.72	4150	10.51	2481	14.36
03 BPOW6-9-20250312MS	2246	7.72	5352	10.51	3243	14.36
04 BPOW6-9-20250312MSD	2513	7.72	5928	10.51	3540	14.36

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036601.D Time Analyzed: 10:09

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	6547	17.099	4700	21.295	3986	23.546
UPPER LIMIT	13094	17.599	9400	21.795	7972	24.046
LOWER LIMIT	3273.5	16.599	2350	20.795	1993	23.046
EPA SAMPLE NO.						
01 RR-PAH-WP	4992	17.10	3361	21.30	2893	23.55
02 RR-PAH-WPDL	4430	17.11	3514	21.30	3166	23.55
03 BPOW6-9-20250312MS	6301	17.10	4672	21.30	3903	23.54
04 BPOW6-9-20250312MSD	7131	17.10	5437	21.30	4602	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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2093	7.717	5069	10.51	2917	14.36
UPPER LIMIT	4186	8.217	10138	11.009	5834	14.855
LOWER LIMIT	1046.5	7.217	2534.5	10.009	1458.5	13.855
EPA SAMPLE NO.						
01 PB167128BS	2536	7.72	5899	10.51	2985	14.36

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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/14/2025

Lab File ID: BN036615.D Time Analyzed: 20:30

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	6068	17.099	4261	21.295	3574	23.548
UPPER LIMIT	12136	17.599	8522	21.795	7148	24.048
LOWER LIMIT	3034	16.599	2130.5	20.795	1787	23.048
EPA SAMPLE NO.						
01 PB167128BS	5084	17.10	2789	21.30	2522	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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2056	7.717	5167	10.51	3028	14.36
UPPER LIMIT	4112	8.217	10334	11.009	6056	14.856
LOWER LIMIT	1028	7.217	2583.5	10.009	1514	13.856
EPA SAMPLE NO.						
01 PB167128BL	2323	7.72	4860	10.52	2639	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.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/15/2025

Lab File ID: BN036633.D Time Analyzed: 08:35

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	5852	17.099	3964	21.295	3322	23.543
UPPER LIMIT	11704	17.599	7928	21.795	6644	24.043
LOWER LIMIT	2926	16.599	1982	20.795	1661	23.043
EPA SAMPLE NO.						
01 PB167128BL	4474	17.12	2905	21.30	2592	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.



SAMPLE DATA

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	RR-PAH-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036603.D	1	03/13/25 12:40	03/14/25 11:21	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	9.20	E	0.040	0.10	ug/L
208-96-8	Acenaphthylene	4.40		0.040	0.10	ug/L
83-32-9	Acenaphthene	14.3	E	0.040	0.10	ug/L
86-73-7	Fluorene	4.60		0.040	0.10	ug/L
85-01-8	Phenanthrene	3.10		0.030	0.10	ug/L
120-12-7	Anthracene	3.50		0.040	0.10	ug/L
206-44-0	Fluoranthene	3.90		0.030	0.10	ug/L
129-00-0	Pyrene	3.00		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.85		0.040	0.10	ug/L
218-01-9	Chrysene	4.50		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	4.10		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.50		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	1.90		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	3.70		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.40		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	2.10		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		20 - 139	91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		27 - 154	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		25 - 149	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		54 - 175	102%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1840		7.724		
1146-65-2	Naphthalene-d8	4300		10.509		
15067-26-2	Acenaphthene-d10	2460		14.355		
1517-22-2	Phenanthrene-d10	4990		17.099		
1719-03-5	Chrysene-d12	3360		21.295		
1520-96-3	Perylene-d12	2890		23.551		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	RR-PAH-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036603.D	1	03/13/25 12:40	03/14/25 11:21	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
 Data File : BN036603.D
 Acq On : 14 Mar 2025 11:21
 Operator : RC/JU
 Sample : Q1502-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 14 11:43:50 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 16:06:28 2025
 Response via : Initial Calibration

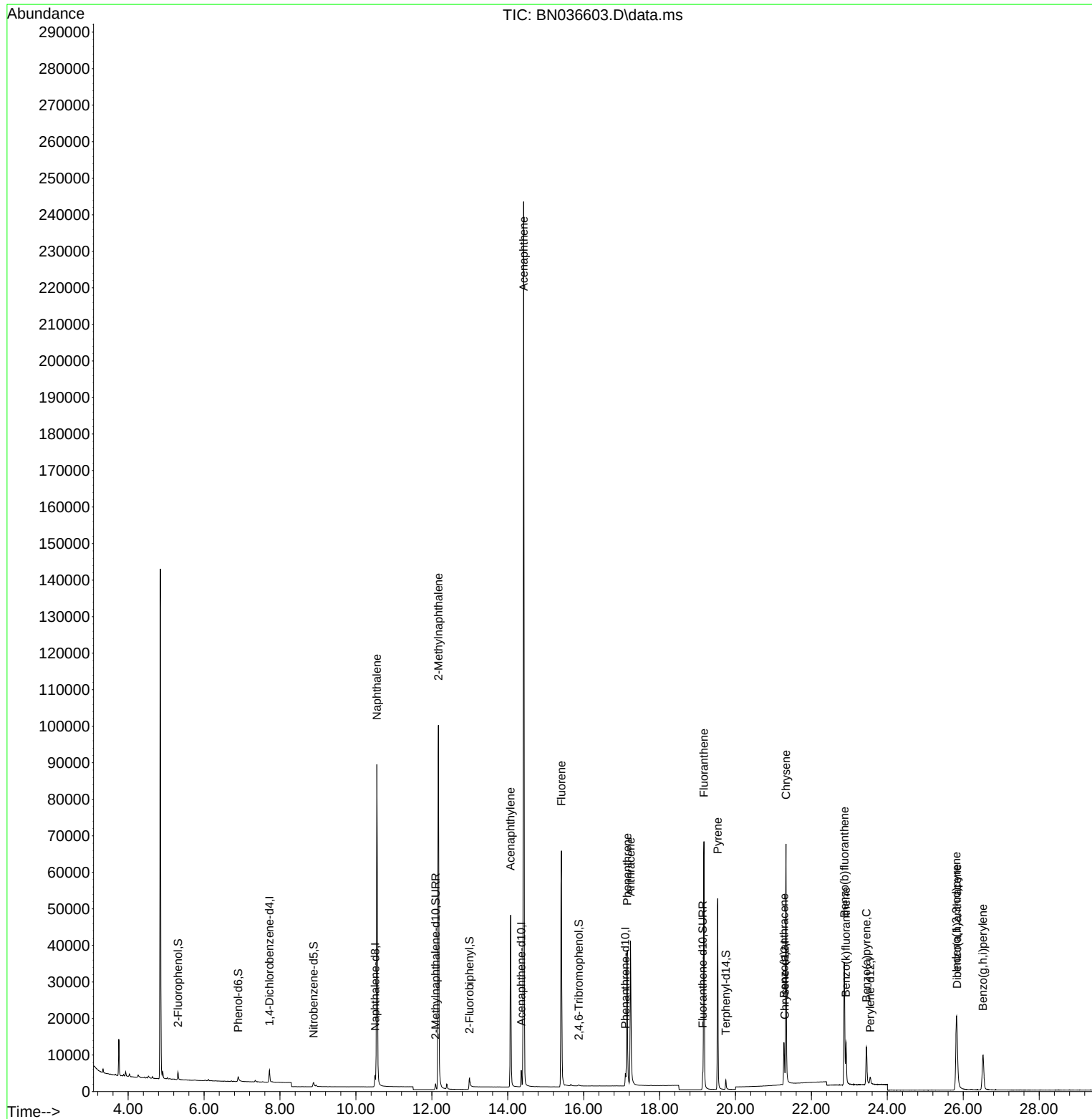
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	1837	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4296	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	2463	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4992	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3361	0.400	ng	# 0.00
35) Perylene-d12	23.551	264	2893	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1550	0.362	ng	0.00
5) Phenol-d6	6.901	99	1742	0.329	ng	0.00
8) Nitrobenzene-d5	8.886	82	1545	0.331	ng	0.01
11) 2-Methylnaphthalene-d10	12.096	152	2321	0.363	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	256	0.229	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5290	0.369	ng	0.00
27) Fluoranthene-d10	19.136	212	5143	0.402	ng	0.00
31) Terphenyl-d14	19.745	244	3276	0.407	ng	0.00
Target Compounds						
9) Naphthalene	10.552	128	116095	9.187	ng	97
12) 2-Methylnaphthalene	12.172	142	73370	9.125	ng	99
16) Acenaphthylene	14.078	152	50637	4.357	ng	100
17) Acenaphthene	14.420	154	108429	14.251	ng	98
18) Fluorene	15.414	166	47677	4.632	ng	100
25) Phenanthrene	17.149	178	45880	3.064	ng	100
26) Anthracene	17.235	178	47922	3.546	ng	99
28) Fluoranthene	19.169	202	64871	3.856	ng	99
30) Pyrene	19.531	202	49034	2.984	ng	100
32) Benzo(a)anthracene	21.277	228	9966	0.853	ng	99
33) Chrysene	21.331	228	58070	4.547	ng	99
36) Indeno(1,2,3-cd)pyrene	25.820	276	38177	3.656	ng	94
37) Benzo(b)fluoranthene	22.867	252	42724	4.058	ng	# 84
38) Benzo(k)fluoranthene	22.911	252	16012	1.450	ng	# 86
39) Benzo(a)pyrene	23.449	252	16926	1.909	ng	# 79
40) Dibenzo(a,h)anthracene	25.841	278	11055	1.360	ng	# 85
41) Benzo(g,h,i)perylene	26.522	276	19668	2.115	ng	93

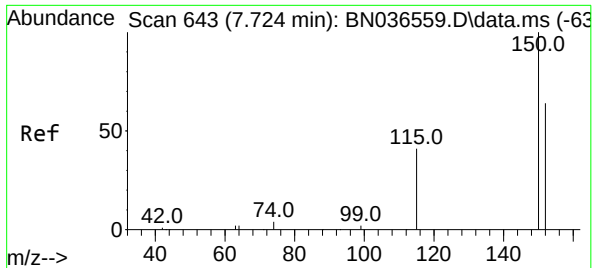
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 14 Mar 2025 11:21
Operator : RC/JU
Sample : Q1502-21
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Quant Time: Mar 14 11:43:50 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 16:06:28 2025
Response via : Initial Calibration

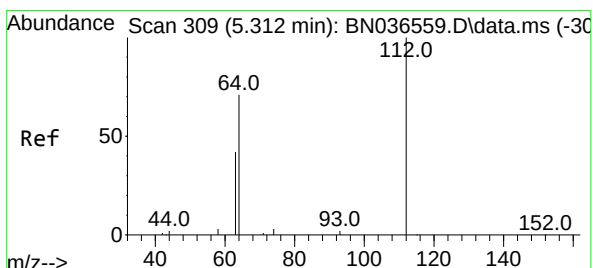
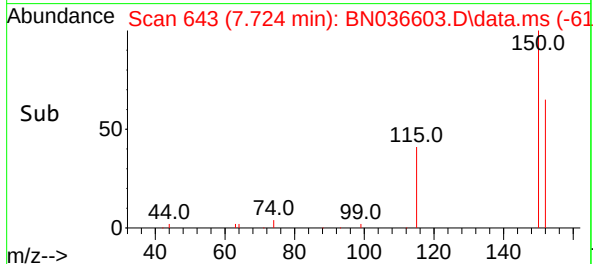
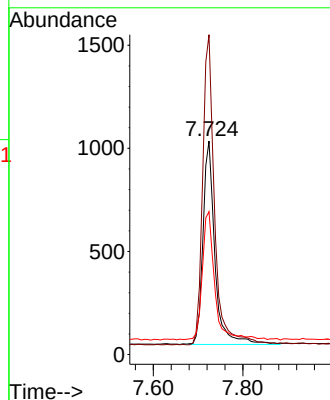
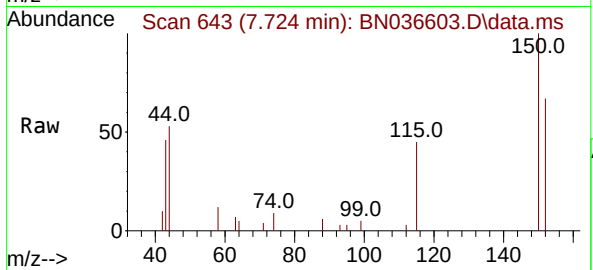




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 643
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

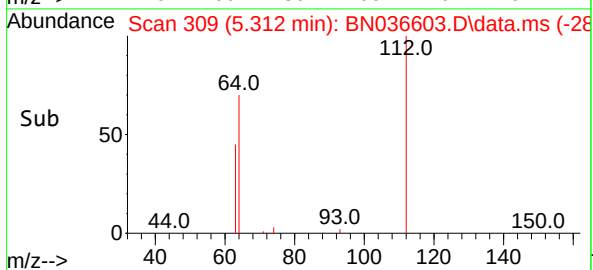
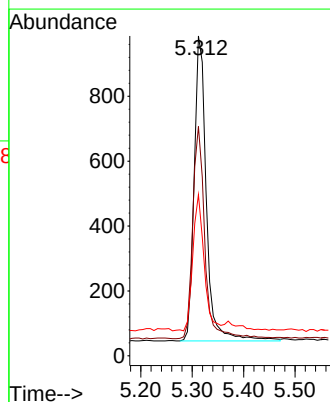
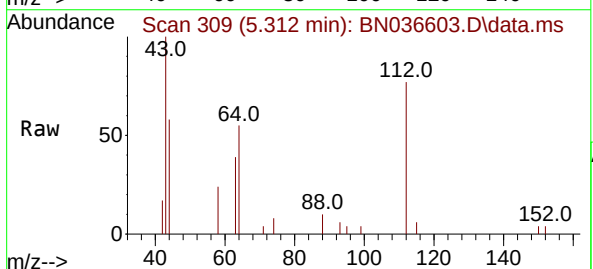
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

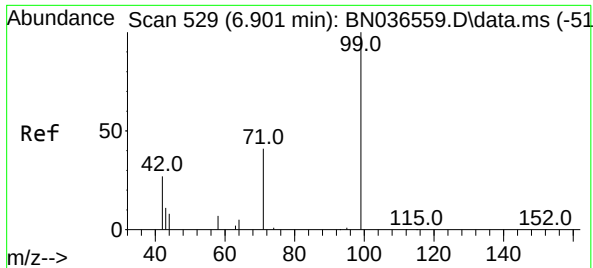
Tgt Ion:152 Resp: 1837
Ion Ratio Lower Upper
152 100
150 149.9 123.7 185.5
115 67.0 54.3 81.5



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:112 Resp: 1550
Ion Ratio Lower Upper
112 100
64 69.4 53.1 79.7
63 40.7 31.8 47.8

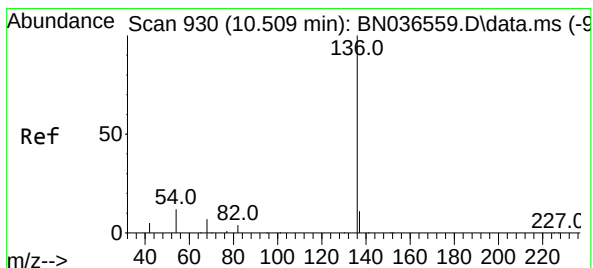
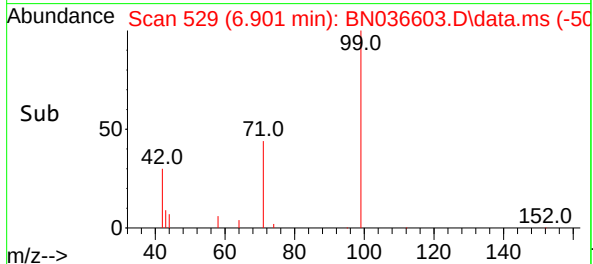
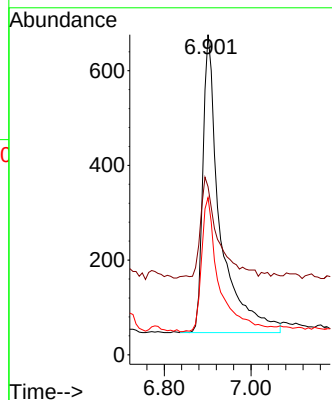
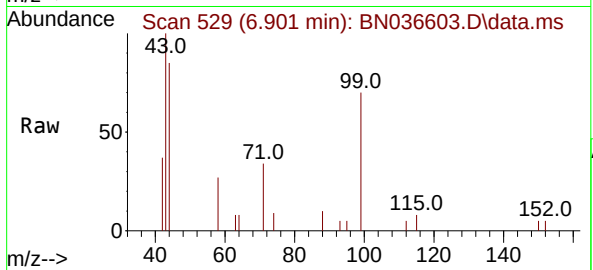




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

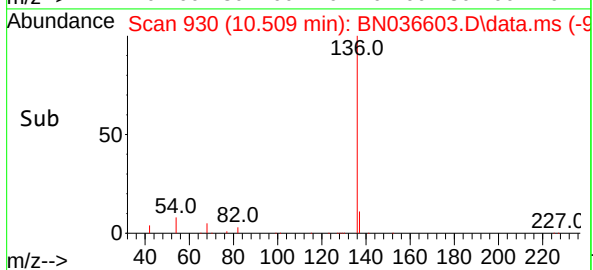
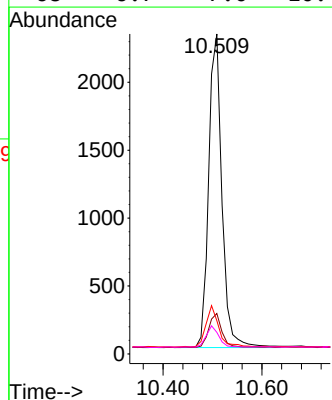
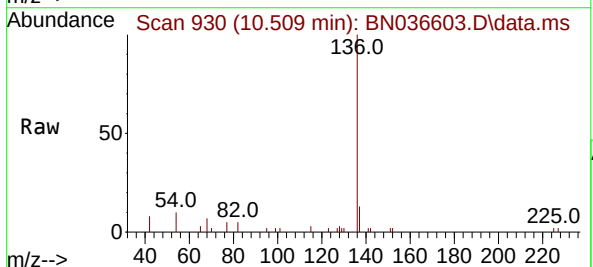
Instrument :
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ClientSampleId :
RR-PAH-WP

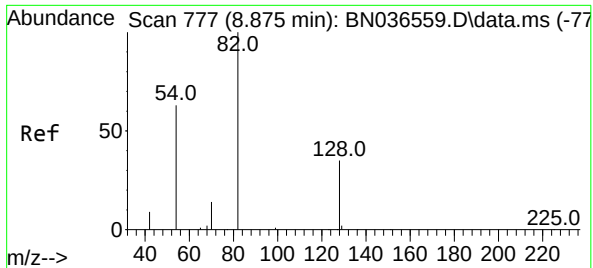
Tgt Ion: 99 Resp: 1742
Ion Ratio Lower Upper
99 100
42 34.6 26.5 39.7
71 45.8 34.1 51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion: 136 Resp: 4296
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 10.4 11.5 17.3#
68 6.7 7.0 10.4#

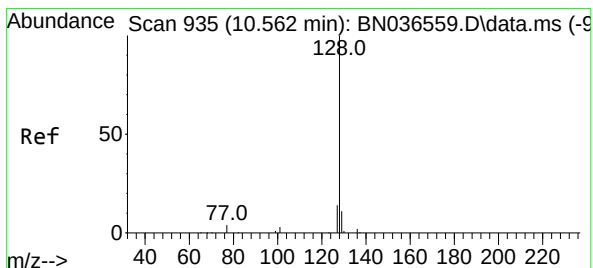
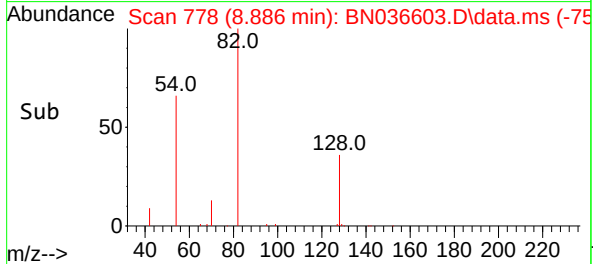
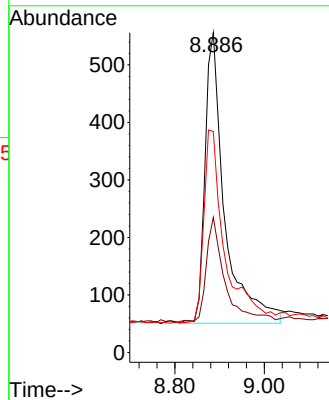
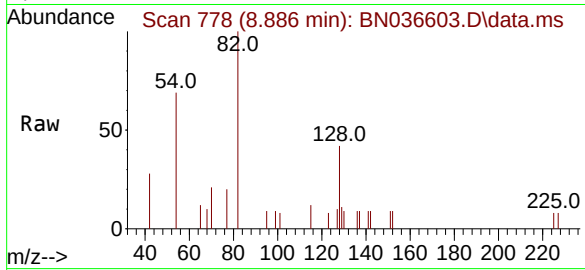




#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

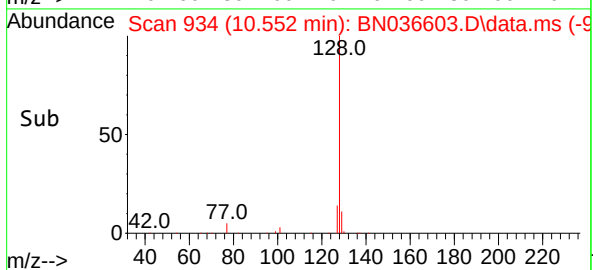
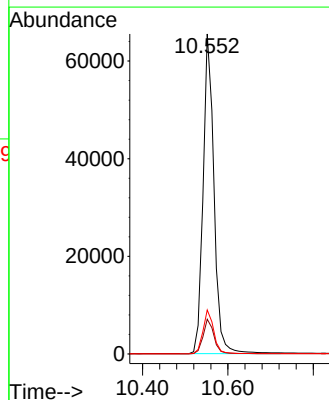
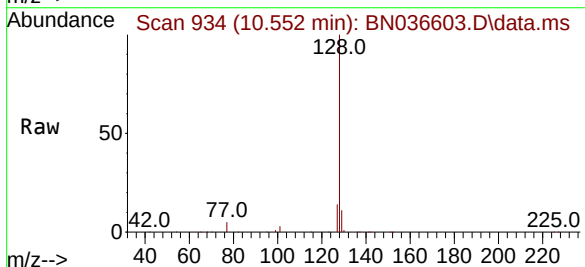
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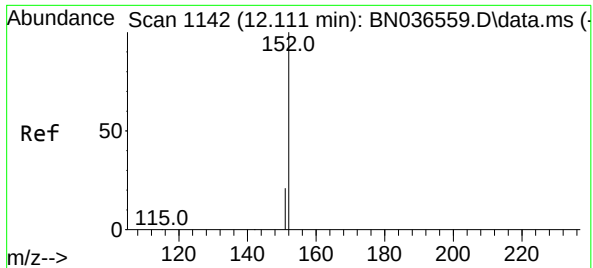
Tgt Ion: 82 Resp: 1545
Ion Ratio Lower Upper
82 100
128 42.3 30.6 45.8
54 69.1 52.2 78.4



#9
Naphthalene
Concen: 9.187 ng
RT: 10.552 min Scan# 934
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion: 128 Resp: 116095
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.8 11.8 17.8

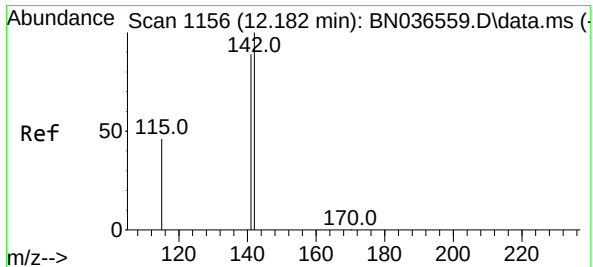
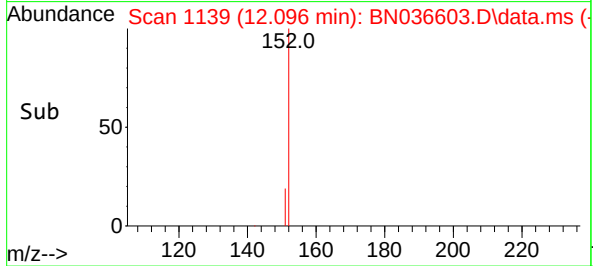
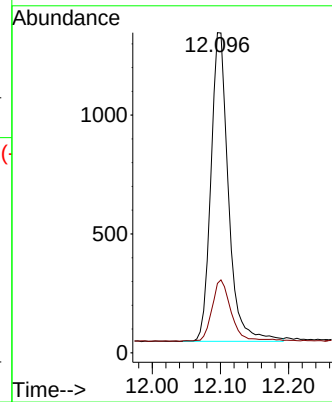
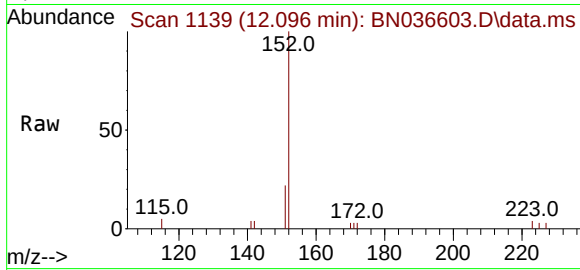




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

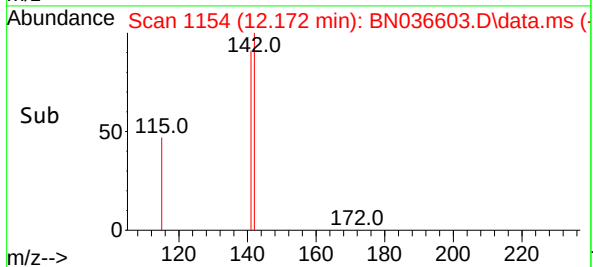
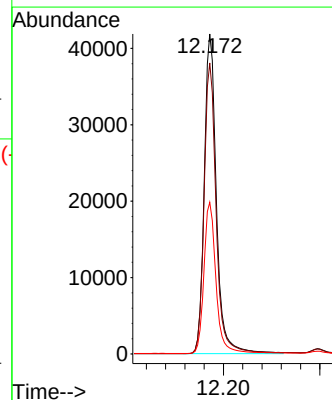
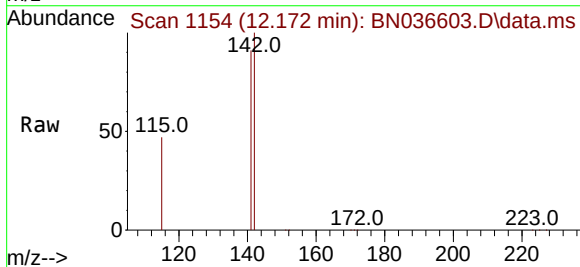
Instrument :
BNA_N
ClientSampleId :
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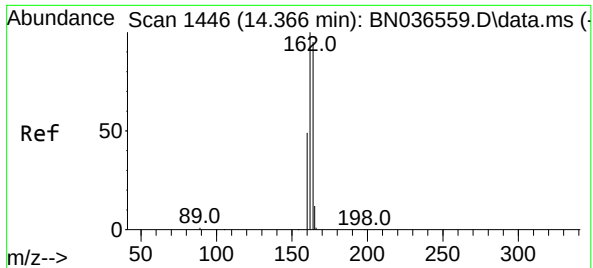
Tgt Ion:152 Resp: 2321
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 9.125 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:142 Resp: 73370
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 47.4 38.3 57.5

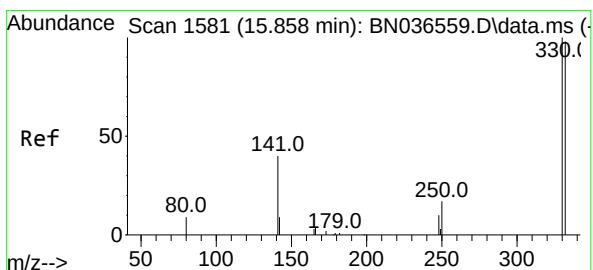
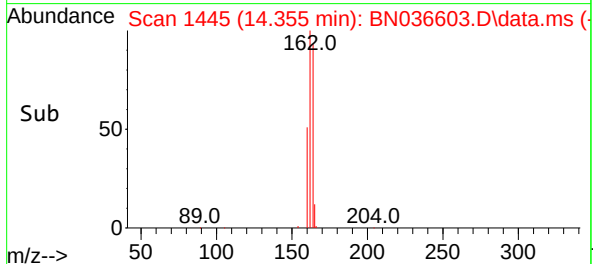
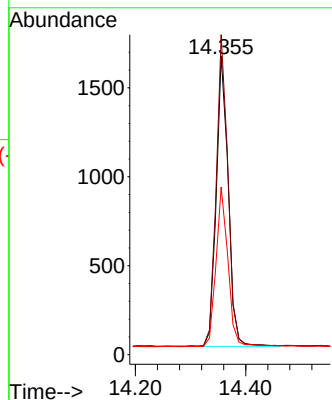
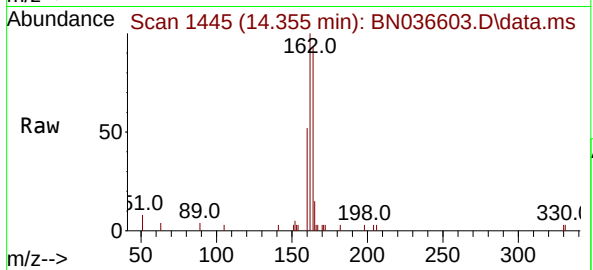




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

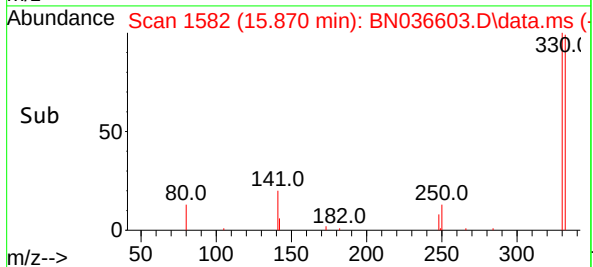
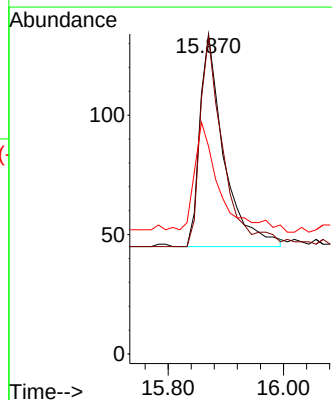
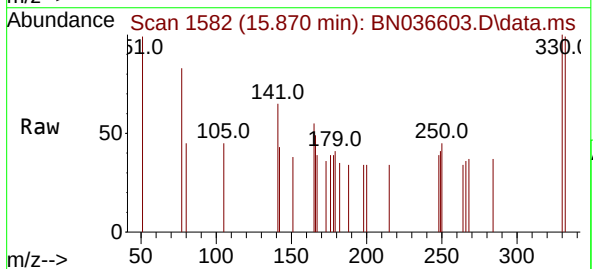
Instrument :
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ClientSampleId :
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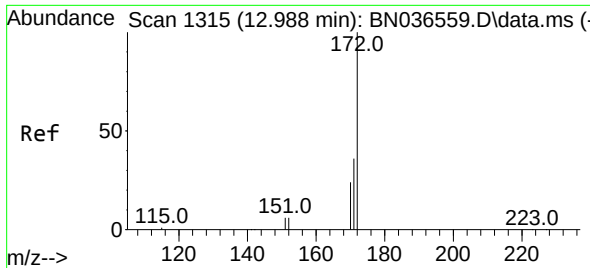
Tgt Ion:164 Resp: 2463
Ion Ratio Lower Upper
164 100
162 107.1 84.2 126.2
160 56.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.229 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:330 Resp: 256
Ion Ratio Lower Upper
330 100
332 95.7 75.2 112.8
141 49.2 43.4 65.2

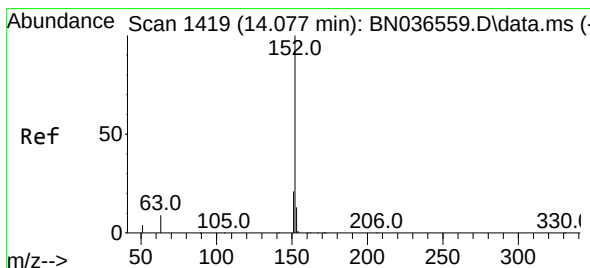
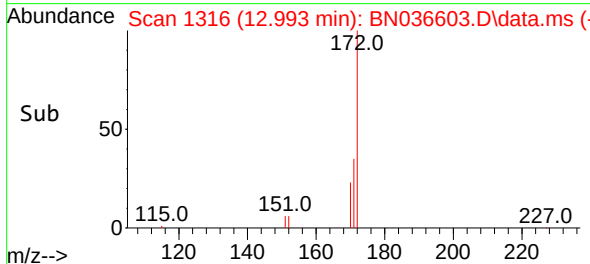
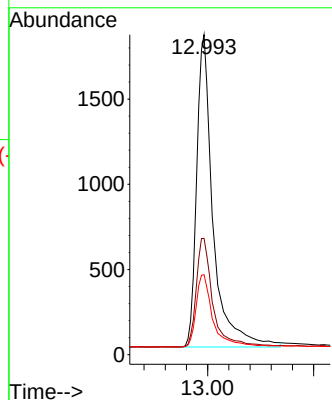
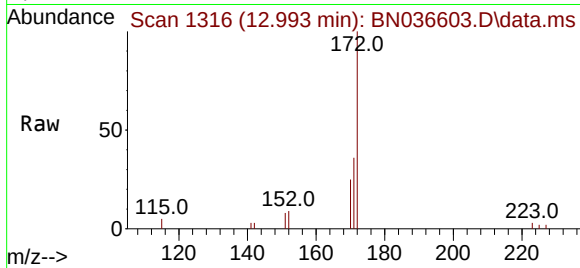




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

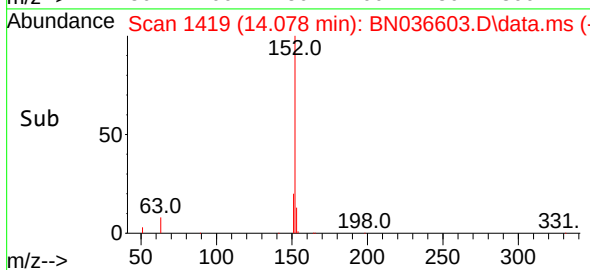
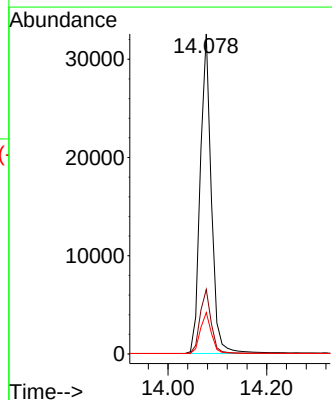
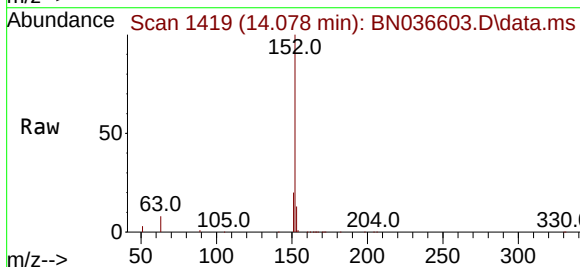
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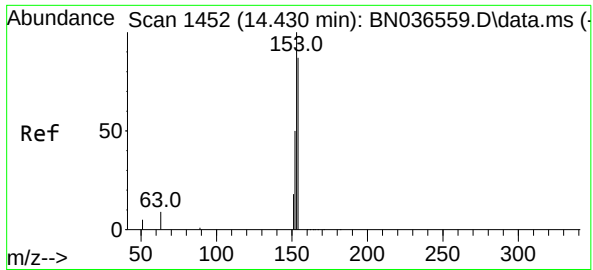
Tgt Ion:	172	Resp:	5290
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.5	44.3
170	25.0	20.2	30.4



#16
Acenaphthylene
Concen: 4.357 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:	152	Resp:	50637
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	12.9	10.6	15.8

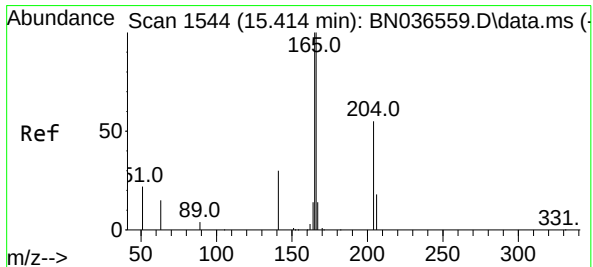
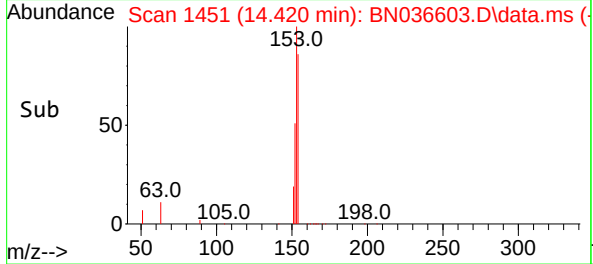
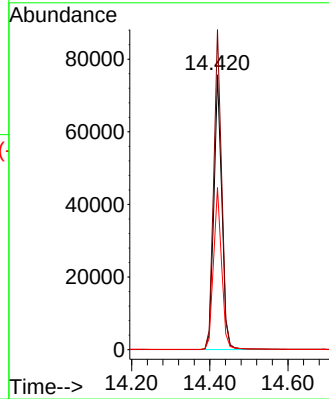
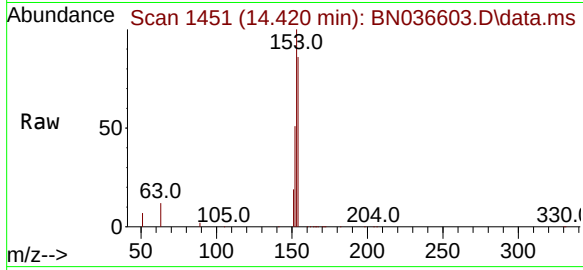




#17
Acenaphthene
Concen: 14.251 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

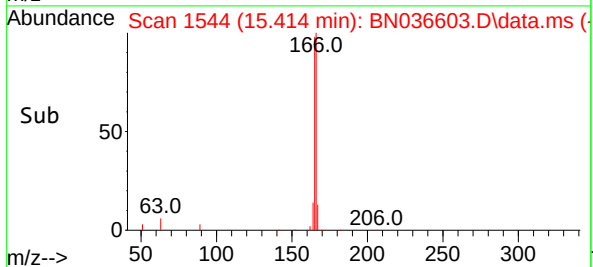
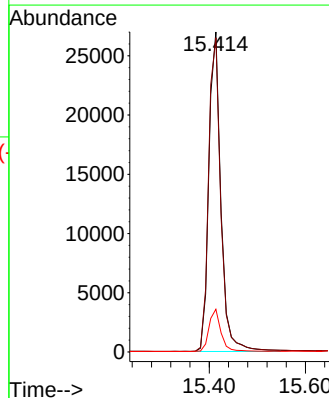
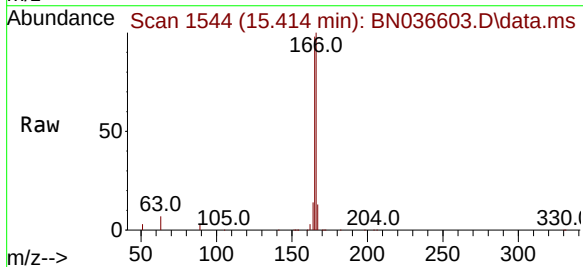
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BNA_N
ClientSampleId :
RR-PAH-WP

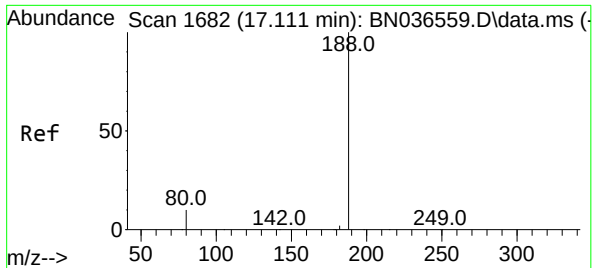
Tgt Ion:154 Resp: 108429
Ion Ratio Lower Upper
154 100
153 116.3 94.1 141.1
152 59.6 49.8 74.6



#18
Fluorene
Concen: 4.632 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:166 Resp: 47677
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.1 10.6 15.8

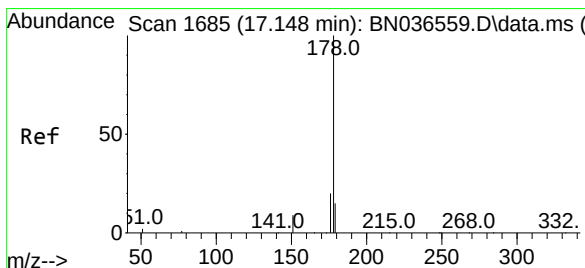
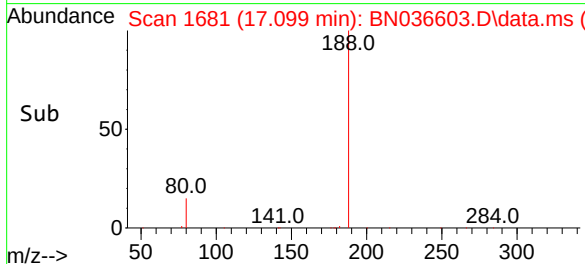
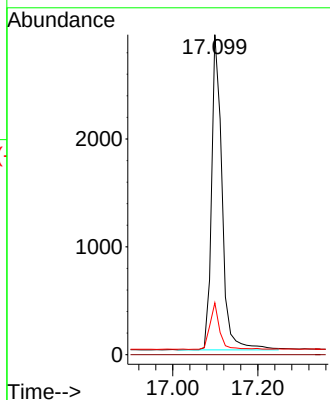
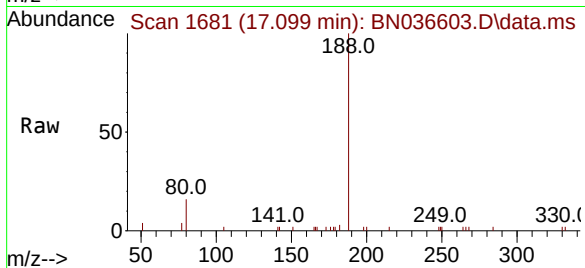




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

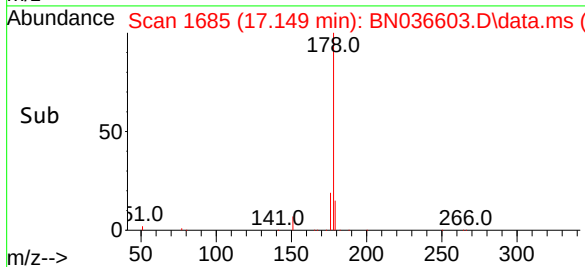
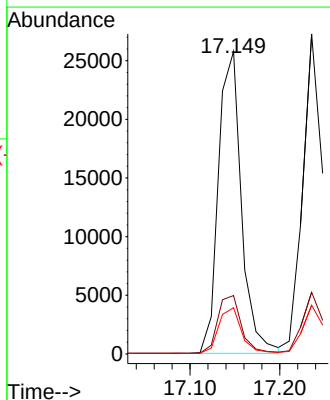
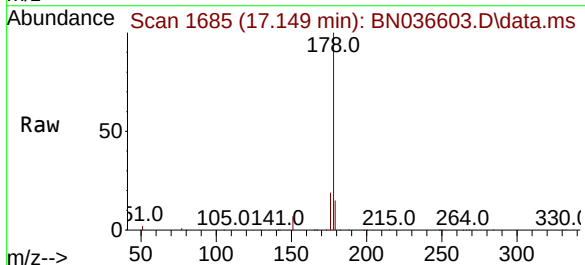
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

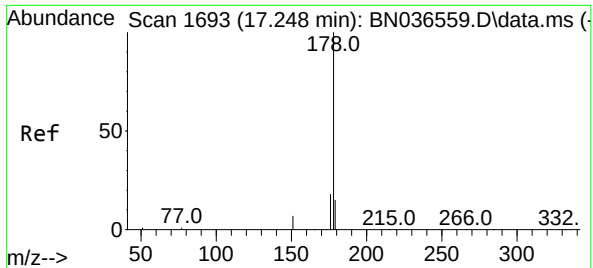
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.2	8.8	13.2#



#25
Phenanthrene
Concen: 3.064 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.0	12.2	18.4

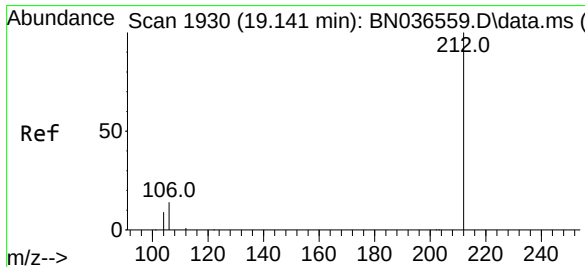
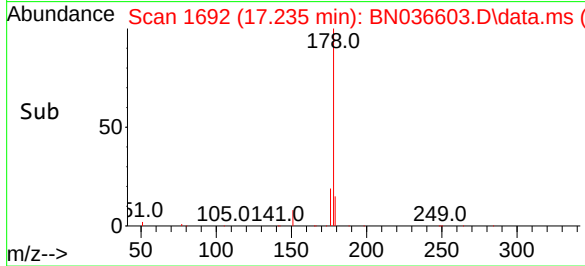
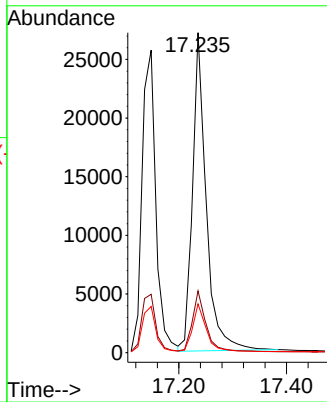
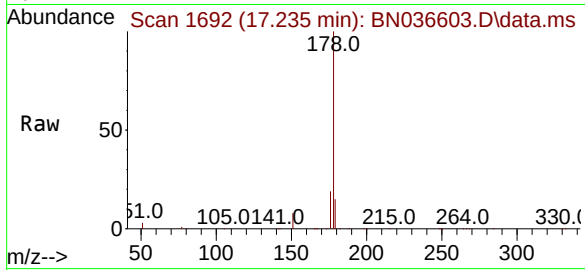




#26
Anthracene
Concen: 3.546 ng
RT: 17.235 min Scan# 1693
Delta R.T. -0.012 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

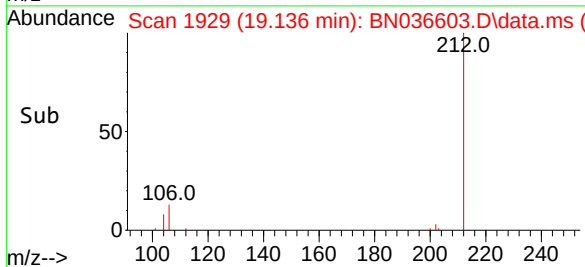
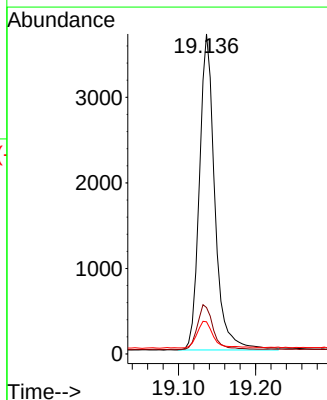
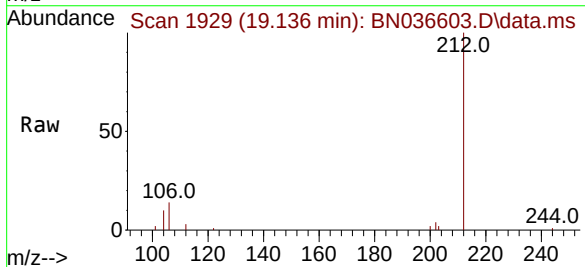
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

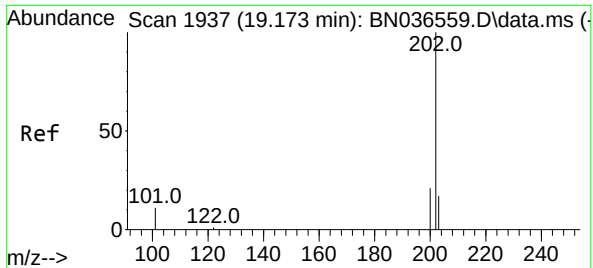
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.3	12.6	18.8



#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9

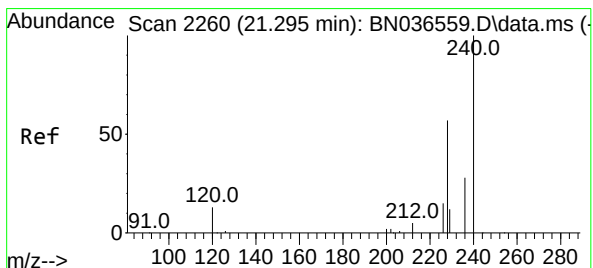
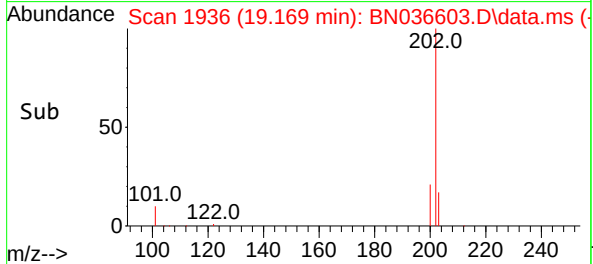
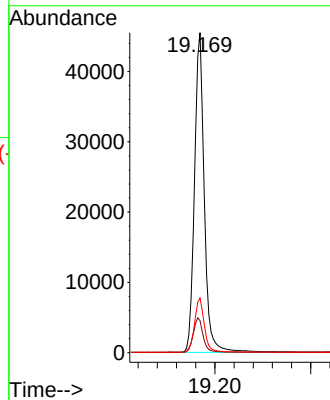
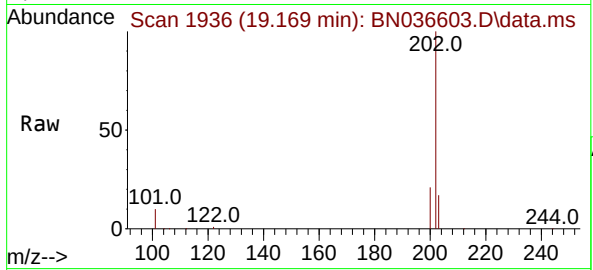




#28
Fluoranthene
Concen: 3.856 ng
RT: 19.169 min Scan# 1937
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

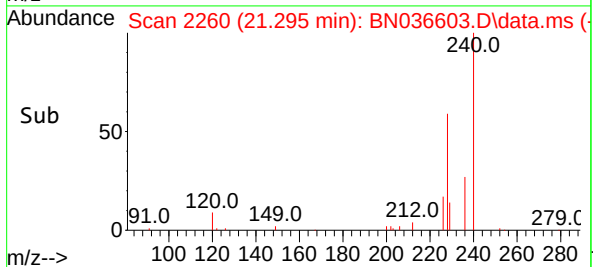
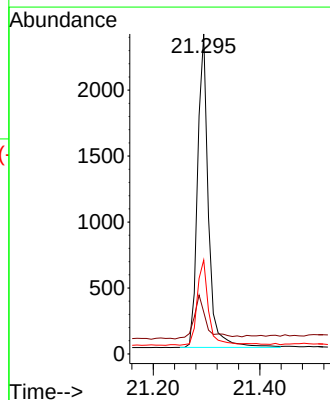
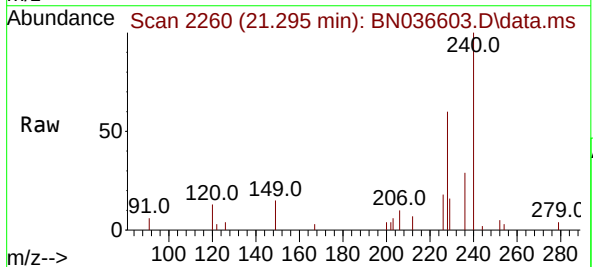
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

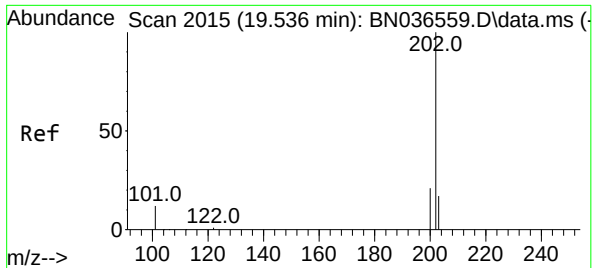
Tgt Ion:202 Resp: 64871
Ion Ratio Lower Upper
202 100
101 10.8 9.4 14.0
203 17.0 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion:240 Resp: 3361
Ion Ratio Lower Upper
240 100
120 13.1 14.6 22.0#
236 29.3 24.1 36.1

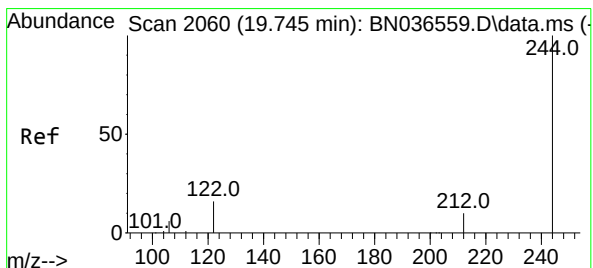
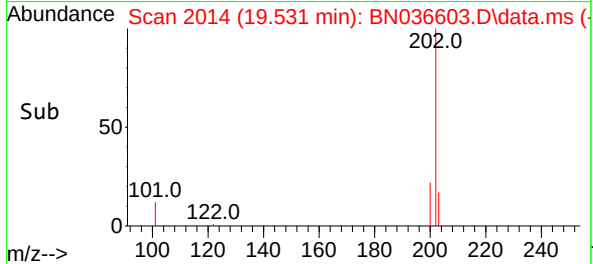
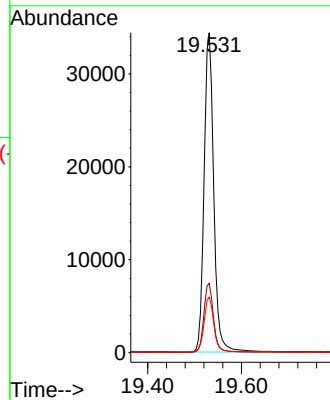
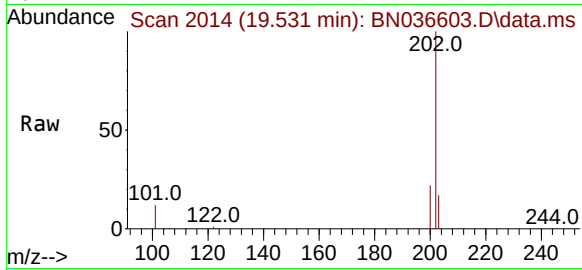




#30
Pyrene
Concen: 2.984 ng
RT: 19.531 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

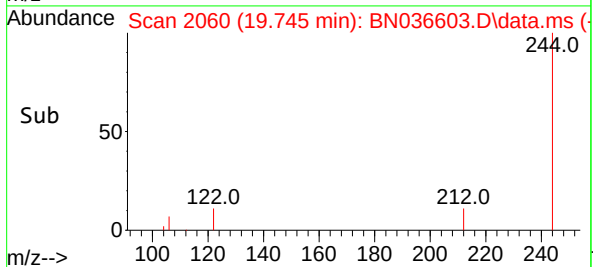
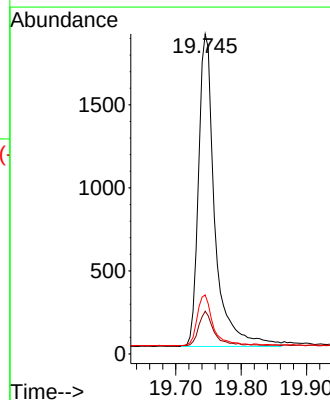
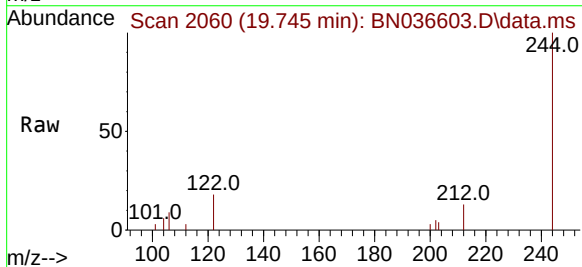
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

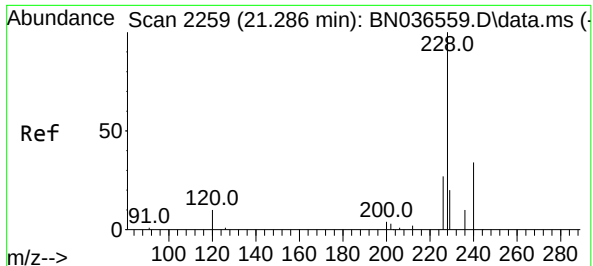
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	17.4	14.1	21.1



#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.3	9.6	14.4
122	18.4	13.9	20.9





#32

Benzo(a)anthracene

Concen: 0.853 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

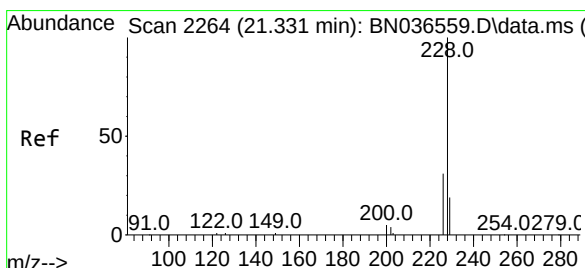
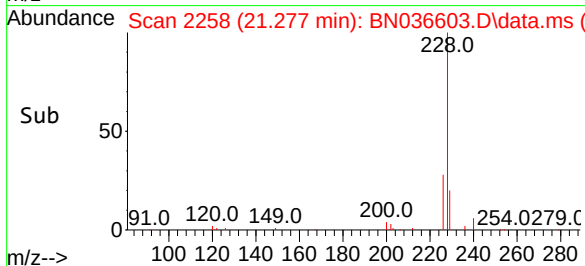
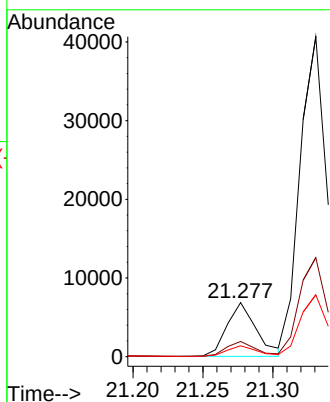
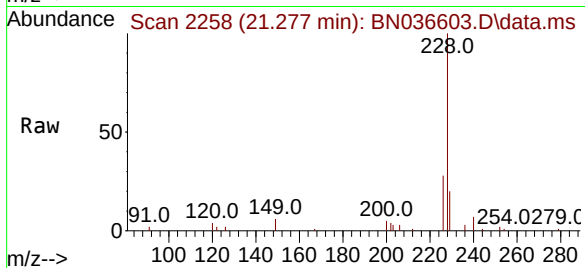
Tgt Ion:228 Resp: 9966

Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

229 20.2 16.6 25.0



#33

Chrysene

Concen: 4.547 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.000 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

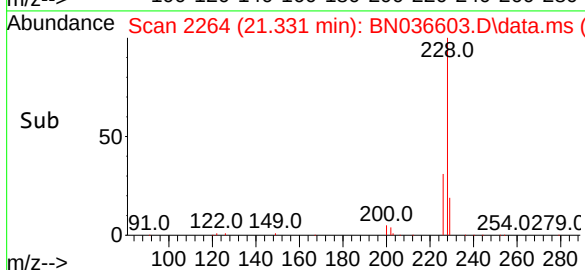
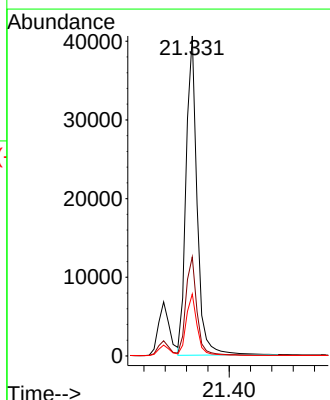
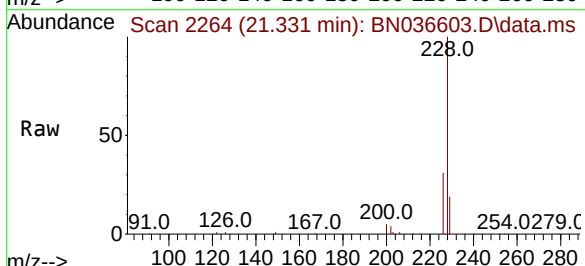
Tgt Ion:228 Resp: 58070

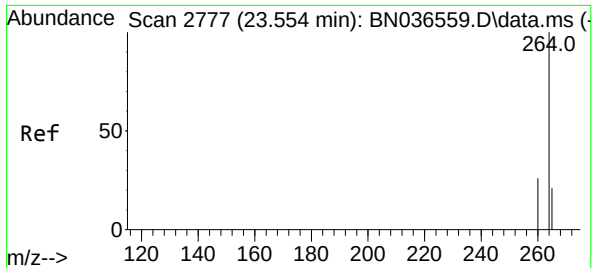
Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

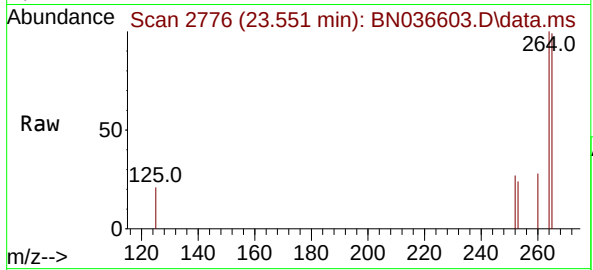
229 19.3 15.8 23.8



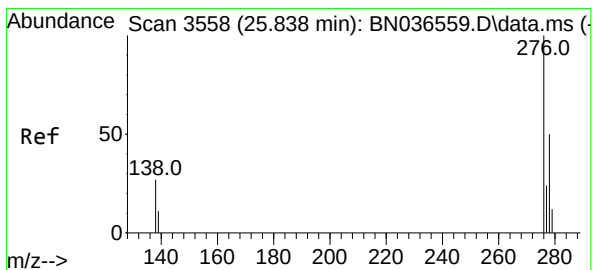
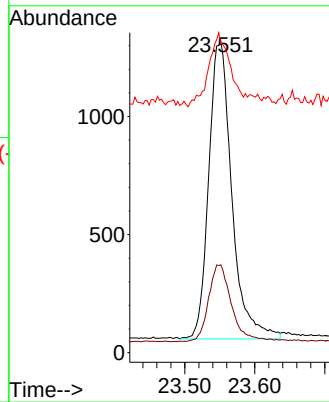
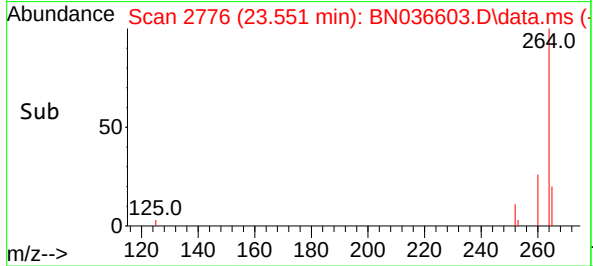


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

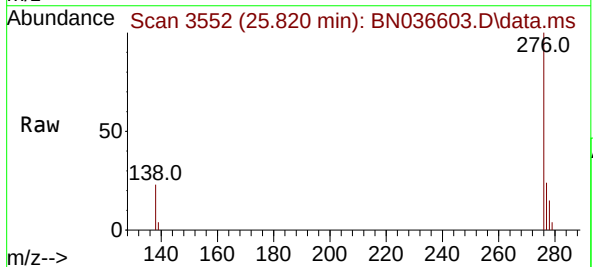
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



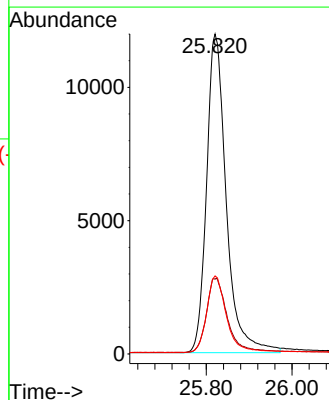
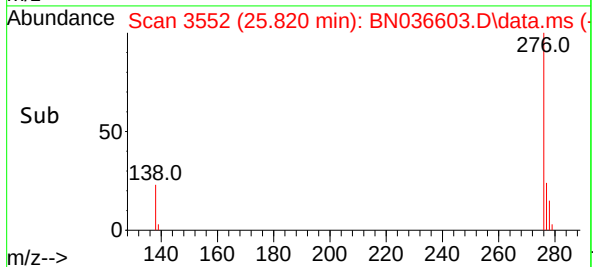
Tgt Ion:264 Resp: 2893
Ion Ratio Lower Upper
264 100
260 28.2 22.6 33.8
265 99.2 88.1 132.1

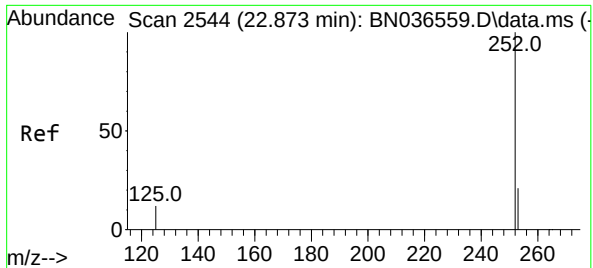


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.656 ng
RT: 25.820 min Scan# 3552
Delta R.T. -0.017 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21



Tgt Ion:276 Resp: 38177
Ion Ratio Lower Upper
276 100
138 24.7 23.4 35.2
277 23.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 4.058 ng

RT: 22.867 min Scan# 2542

Delta R.T. -0.006 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

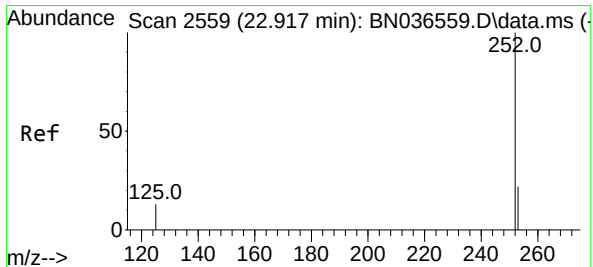
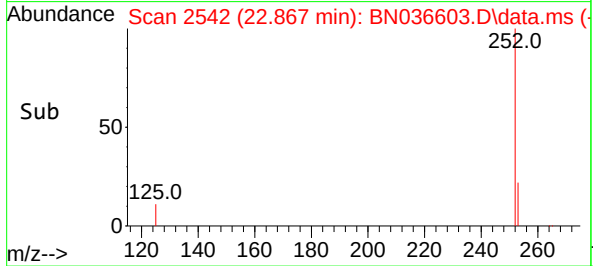
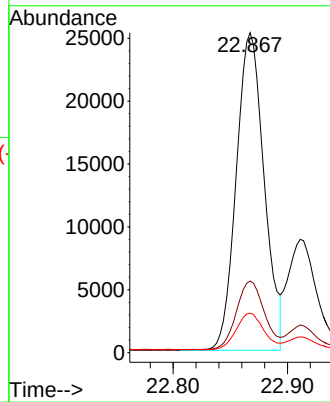
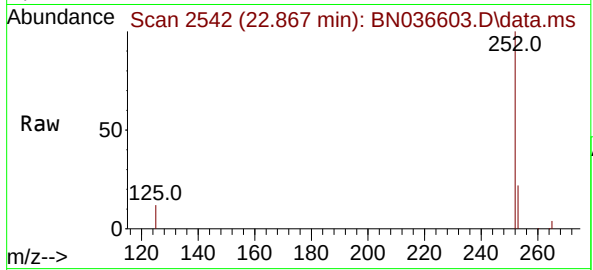
Tgt Ion:252 Resp: 42724

Ion Ratio Lower Upper

252 100

253 22.4 23.9 35.9#

125 12.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.450 ng

RT: 22.911 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

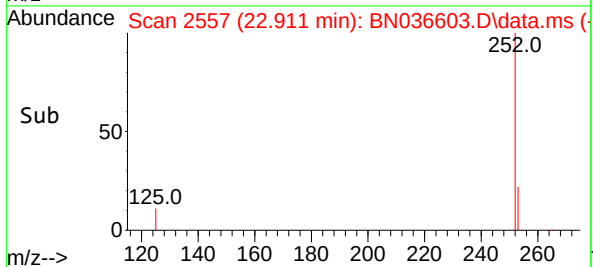
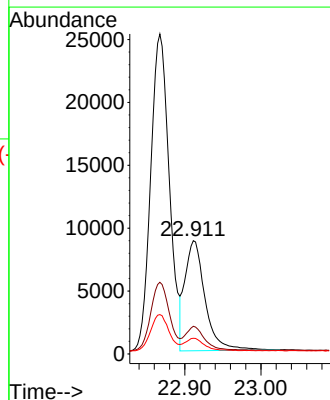
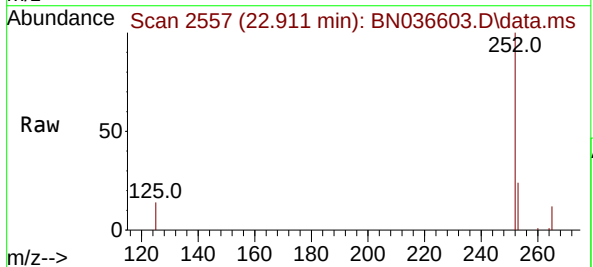
Tgt Ion:252 Resp: 16012

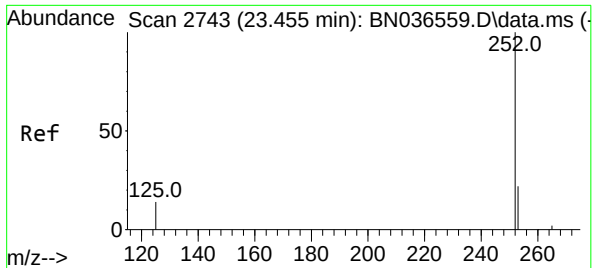
Ion Ratio Lower Upper

252 100

253 24.5 24.6 36.8#

125 13.8 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.909 ng

RT: 23.449 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

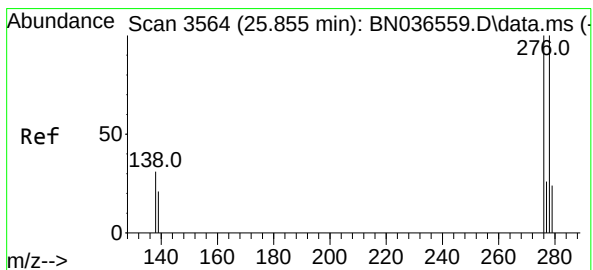
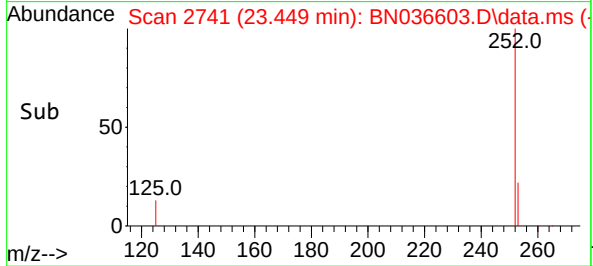
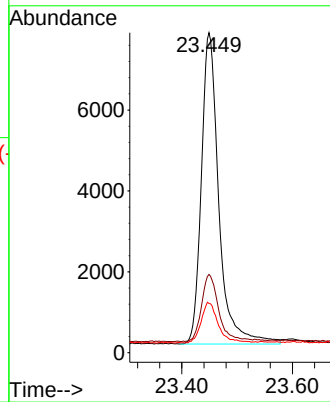
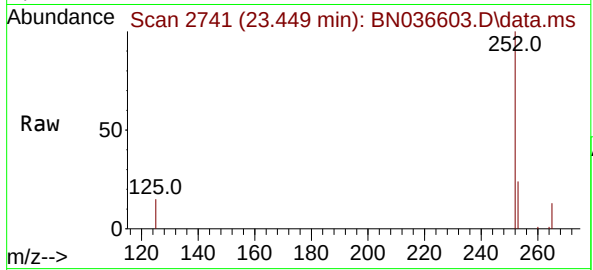
Tgt Ion:252 Resp: 16926

Ion Ratio Lower Upper

252 100

253 24.5 27.8 41.8#

125 15.4 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.360 ng

RT: 25.841 min Scan# 3559

Delta R.T. -0.015 min

Lab File: BN036603.D

Acq: 14 Mar 2025 11:21

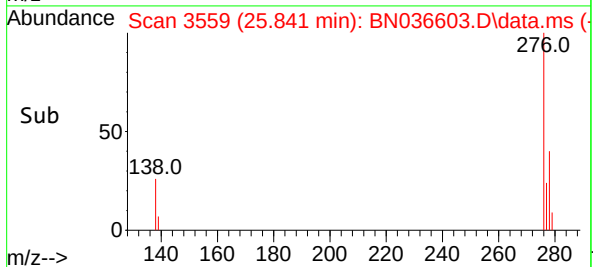
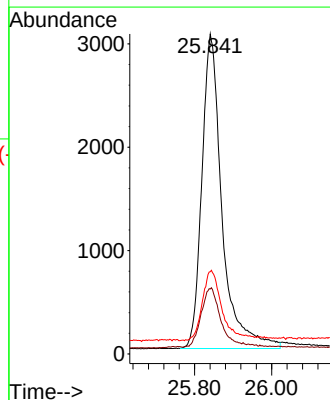
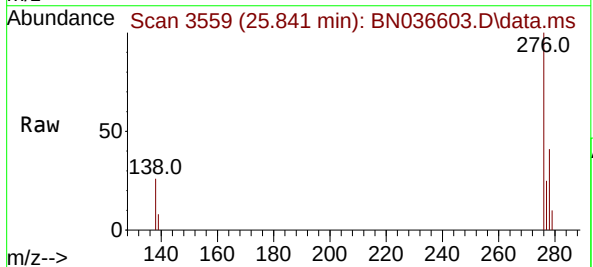
Tgt Ion:278 Resp: 11055

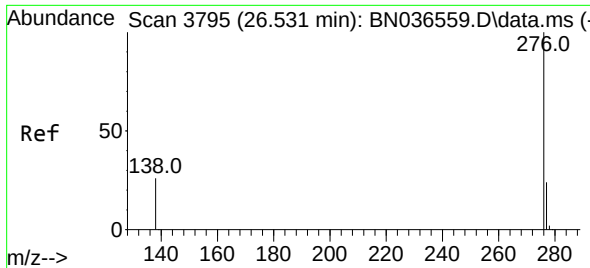
Ion Ratio Lower Upper

278 100

139 20.3 20.8 31.2#

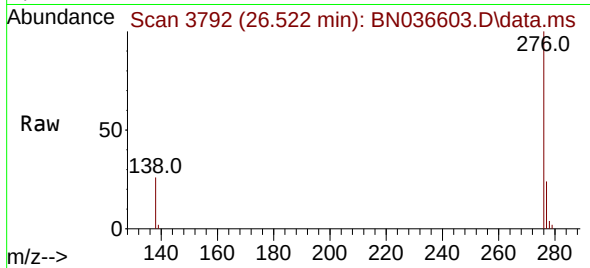
279 25.7 28.8 43.2#



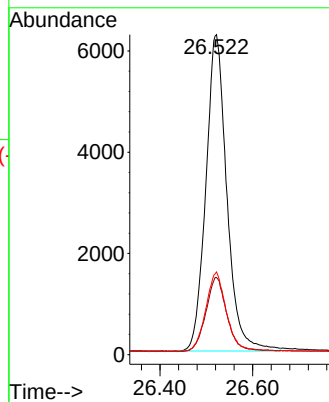
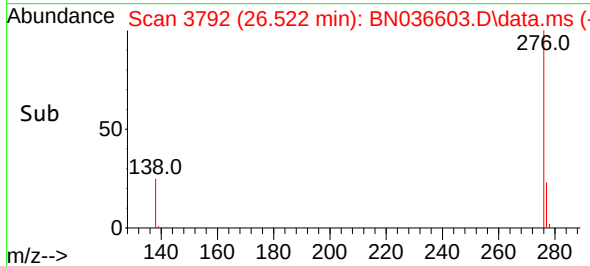


#41
Benzo(g,h,i)perylene
Concen: 2.115 ng
RT: 26.522 min Scan# 31
Delta R.T. -0.009 min
Lab File: BN036603.D
Acq: 14 Mar 2025 11:21

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:	276	Resp:	19668
Ion Ratio	Lower	Upper	
276	100		
277	24.1	22.2	33.4
138	25.8	24.1	36.1



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	03/03/25
Project:	NJ Waste Water PT		Date Received:	03/05/25
Client Sample ID:	RR-PAH-WPDL		SDG No.:	Q1502
Lab Sample ID:	Q1502-21DL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036604.D	5	03/13/25 12:40	03/14/25 12:11	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	9.10	D	0.20	0.50	ug/L
208-96-8	Acenaphthylene	4.10	D	0.19	0.50	ug/L
83-32-9	Acenaphthene	13.5	D	0.19	0.50	ug/L
86-73-7	Fluorene	3.90	D	0.19	0.50	ug/L
85-01-8	Phenanthrene	3.00	D	0.17	0.50	ug/L
120-12-7	Anthracene	3.30	D	0.18	0.50	ug/L
206-44-0	Fluoranthene	4.00	D	0.17	0.50	ug/L
129-00-0	Pyrene	2.60	D	0.16	0.50	ug/L
56-55-3	Benzo(a)anthracene	0.78	D	0.18	0.50	ug/L
218-01-9	Chrysene	4.60	D	0.19	0.50	ug/L
205-99-2	Benzo(b)fluoranthene	4.00	D	0.18	0.50	ug/L
207-08-9	Benzo(k)fluoranthene	1.40	D	0.25	0.50	ug/L
50-32-8	Benzo(a)pyrene	1.90	D	0.21	0.50	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	3.50	D	0.23	0.50	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	D	0.24	0.50	ug/L
191-24-2	Benzo(g,h,i)perylene	2.10	D	0.21	0.50	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		20 - 139	91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		27 - 154	75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		25 - 149	70%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		54 - 175	96%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1710		7.717		
1146-65-2	Naphthalene-d8	4150		10.509		
15067-26-2	Acenaphthene-d10	2480		14.356		
1517-22-2	Phenanthrene-d10	4430		17.111		
1719-03-5	Chrysene-d12	3510		21.295		
1520-96-3	Perylene-d12	3170		23.554		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	RR-PAH-WPDL	SDG No.:	Q1502
Lab Sample ID:	Q1502-21DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036604.D	5	03/13/25 12:40	03/14/25 12:11	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
 Data File : BN036604.D
 Acq On : 14 Mar 2025 12:11
 Operator : RC/JU
 Sample : Q1502-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 14 12:39:19 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	7.717	152	1713	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4150	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2481	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	4430	0.400	ng	# 0.00
29) Chrysene-d12	21.295	240	3514	0.400	ng	0.00
35) Perylene-d12	23.554	264	3166	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	305	0.076	ng	0.00
5) Phenol-d6	6.901	99	324	0.066	ng	0.00
8) Nitrobenzene-d5	8.897	82	269	0.060	ng	0.02
11) 2-Methylnaphthalene-d10	12.106	152	452	0.073	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	58	0.052	ng	0.03
15) 2-Fluorobiphenyl	13.003	172	811	0.056	ng	0.02
27) Fluoranthene-d10	19.141	212	996	0.088	ng	0.00
31) Terphenyl-d14	19.750	244	651	0.077	ng	0.00
Target Compounds					Qvalue	
9) Naphthalene	10.562	128	22116	1.812	ng	98
12) 2-Methylnaphthalene	12.182	142	13633	1.755	ng	99
16) Acenaphthylene	14.078	152	9655	0.825	ng	100
17) Acenaphthene	14.420	154	20708	2.702	ng	99
18) Fluorene	15.425	166	7985	0.770	ng	100
25) Phenanthrene	17.149	178	7968	0.600	ng	100
26) Anthracene	17.248	178	7936	0.662	ng	99
28) Fluoranthene	19.174	202	11861	0.795	ng	98
30) Pyrene	19.536	202	9070	0.528	ng	100
32) Benzo(a)anthracene	21.286	228	1908	0.156	ng	93
33) Chrysene	21.331	228	12287	0.920	ng	100
36) Indeno(1,2,3-cd)pyrene	25.835	276	7952	0.696	ng	# 91
37) Benzo(b)fluoranthene	22.876	252	9213m	0.800	ng	
38) Benzo(k)fluoranthene	22.917	252	3283	0.272	ng	97
39) Benzo(a)pyrene	23.455	252	3773	0.389	ng	98
40) Dibenzo(a,h)anthracene	25.858	278	2135	0.240	ng	# 89
41) Benzo(g,h,i)perylene	26.531	276	4270	0.420	ng	97

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

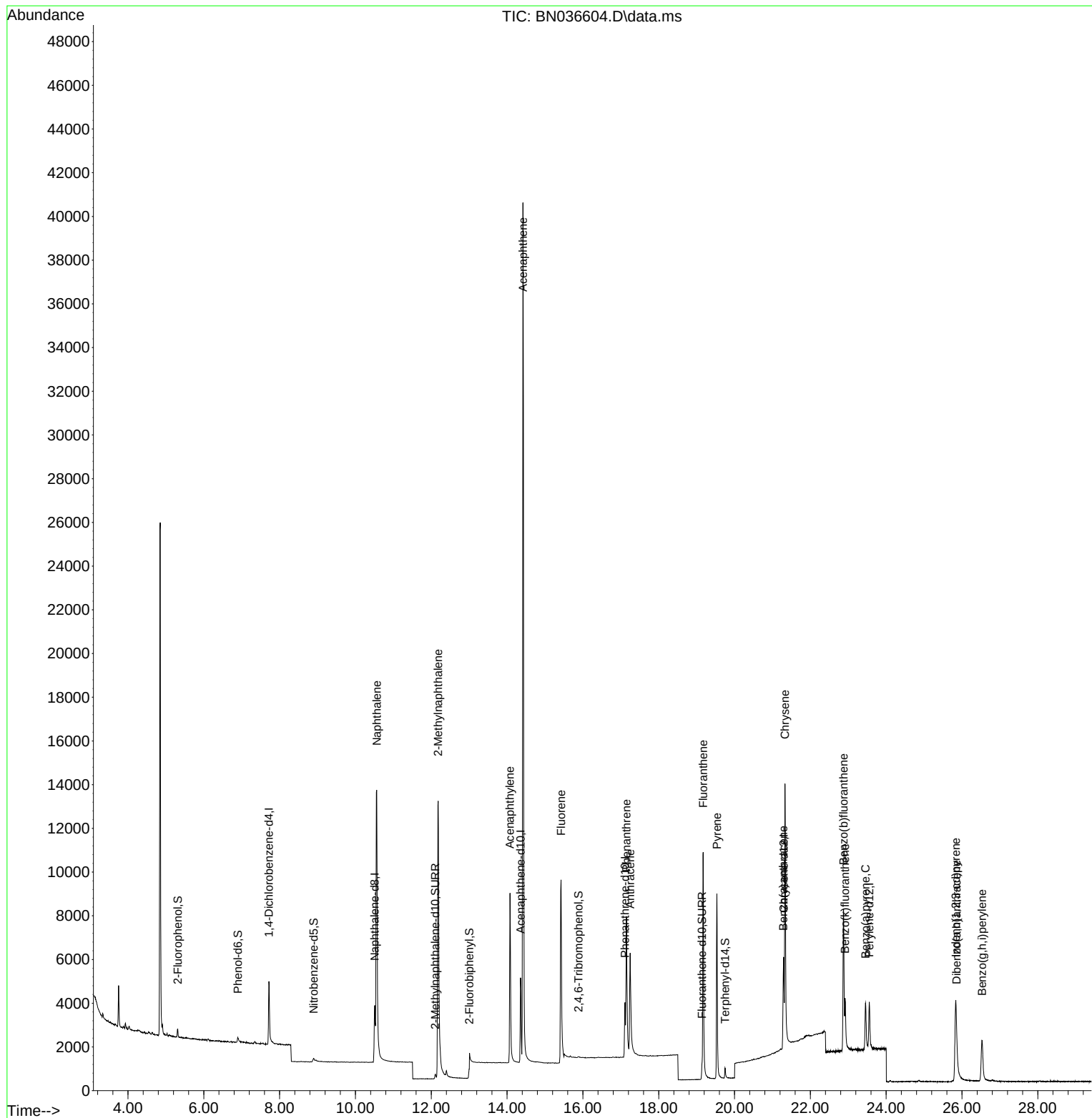
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Data File : BN036604.D
Acq On : 14 Mar 2025 12:11
Operator : RC/JU
Sample : Q1502-21DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

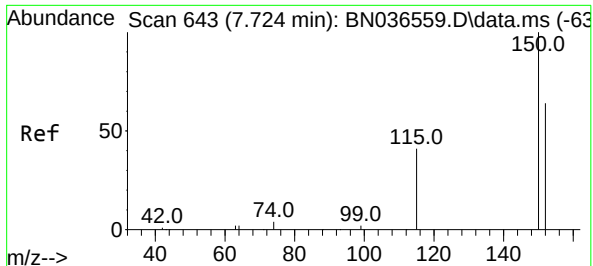
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Quant Time: Mar 14 12:39:19 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

Manual Integrations
APPROVED

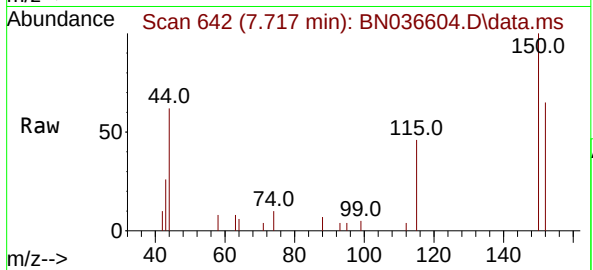
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

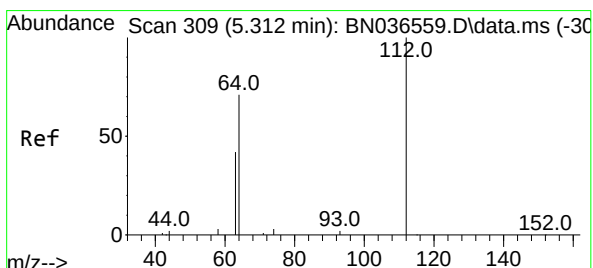
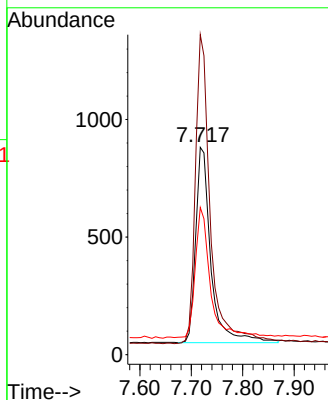
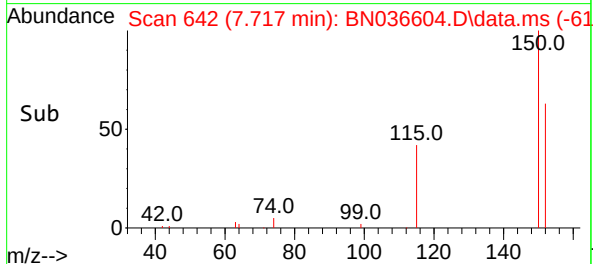
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 171
Ion Ratio Lower Upper
152 100
150 154.3 123.7 185.5
115 71.0 54.3 81.5

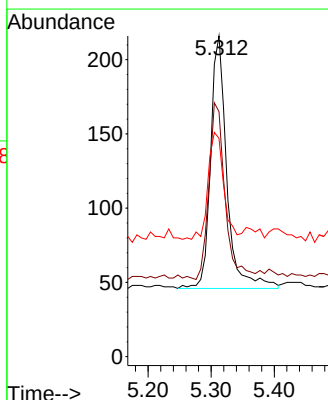
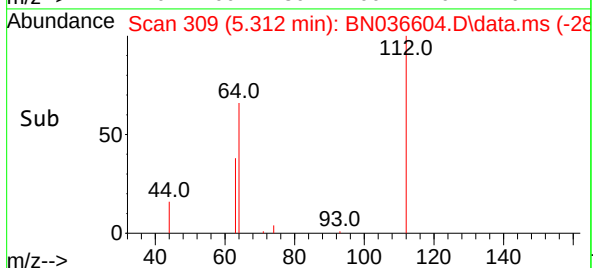
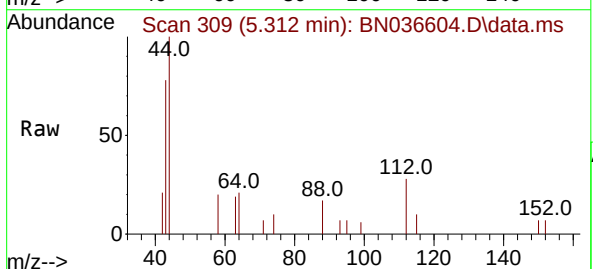
Manual Integrations
APPROVED

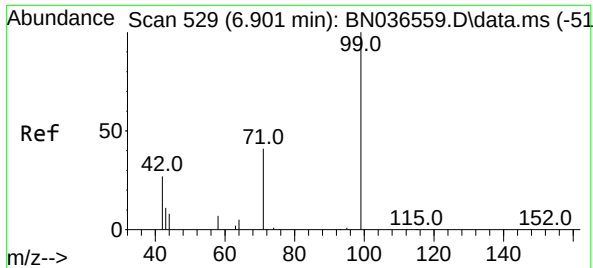
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#4
2-Fluorophenol
Concen: 0.076 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

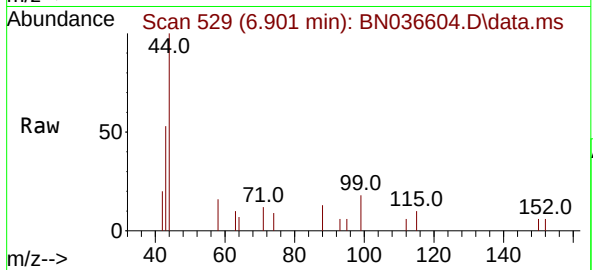
Tgt Ion:112 Resp: 305
Ion Ratio Lower Upper
112 100
64 67.2 53.1 79.7
63 41.0 31.8 47.8





#5
Phenol-d6
Concen: 0.066 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

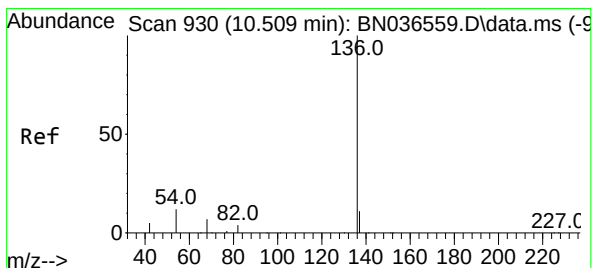
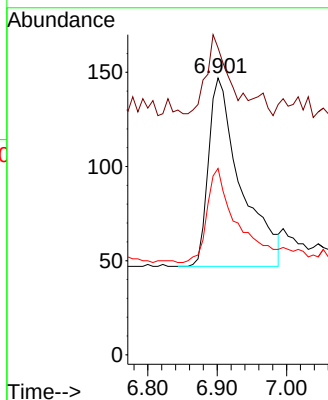
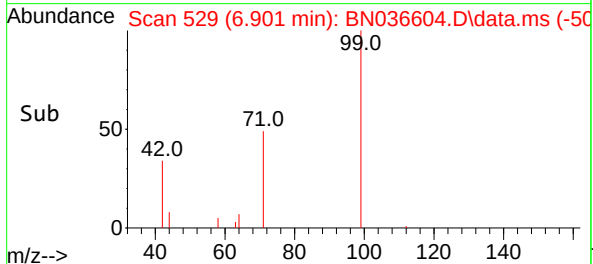
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 99 Resp: 324
Ion Ratio Lower Upper
99 100
42 28.1 26.5 39.7
71 46.0 34.1 51.1

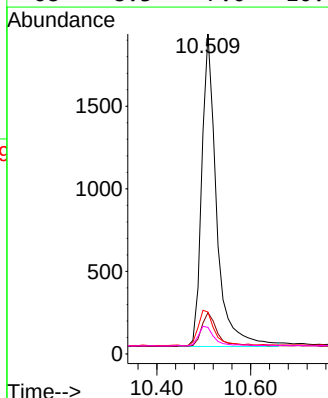
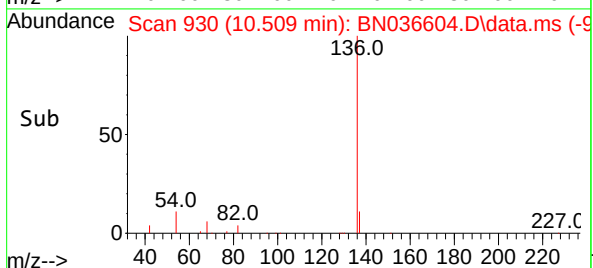
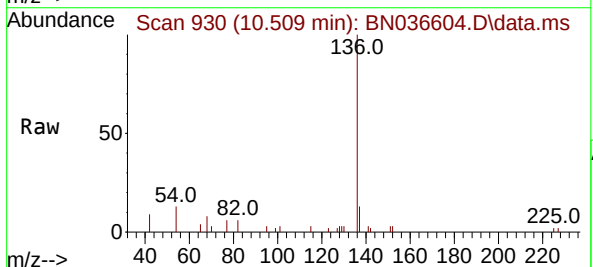
Manual Integrations
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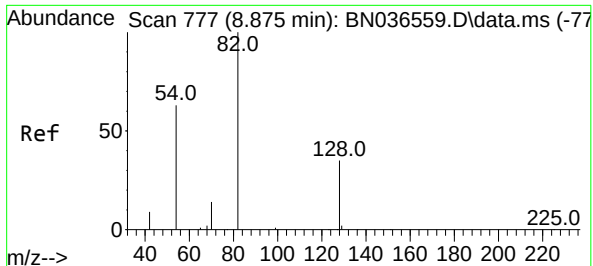
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Tgt Ion:136 Resp: 4150
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 13.1 11.5 17.3
68 8.3 7.0 10.4





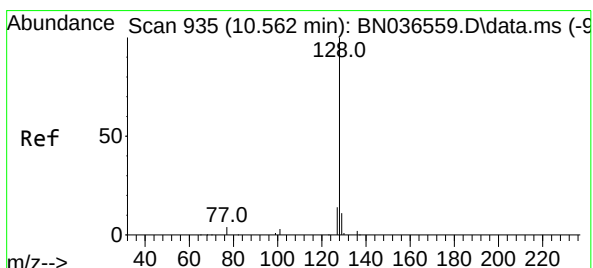
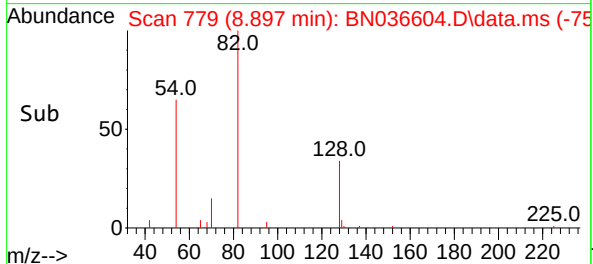
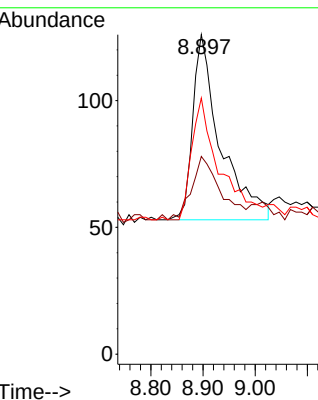
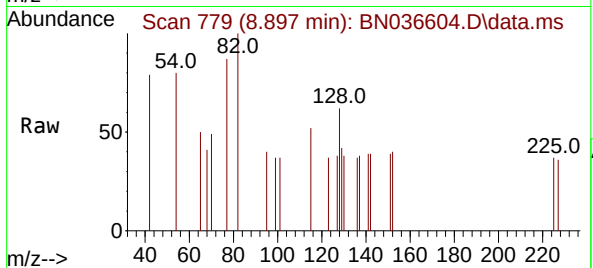
#8
Nitrobenzene-d5
Concen: 0.060 ng
RT: 8.897 min Scan# 777
Delta R.T. 0.022 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion: 82 Resp: 269
Ion Ratio Lower Upper
82 100
128 61.9 30.6 45.8
54 80.2 52.2 78.4

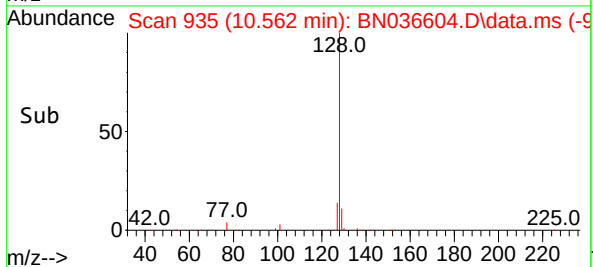
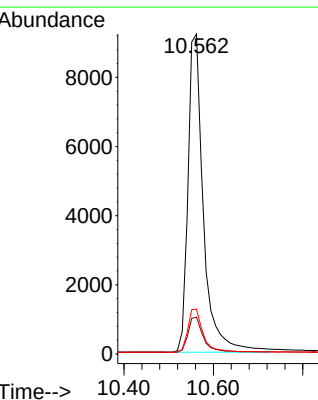
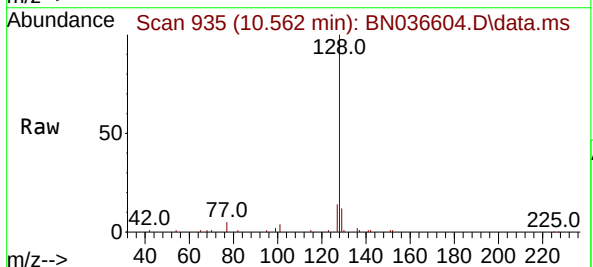
Manual Integrations
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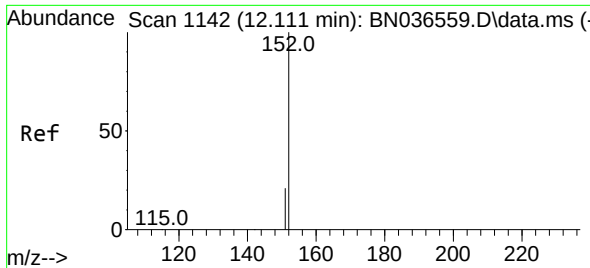
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#9
Naphthalene
Concen: 1.812 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

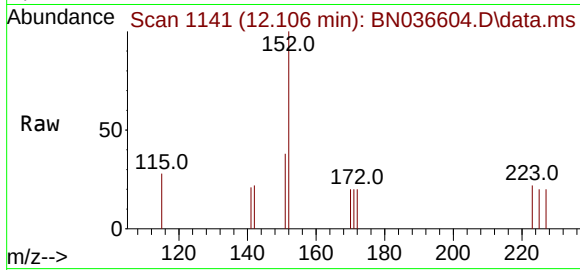
Tgt Ion:128 Resp: 22116
Ion Ratio Lower Upper
128 100
129 11.5 9.8 14.6
127 14.0 11.8 17.8





#11
2-Methylnaphthalene-d10
Concen: 0.073 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

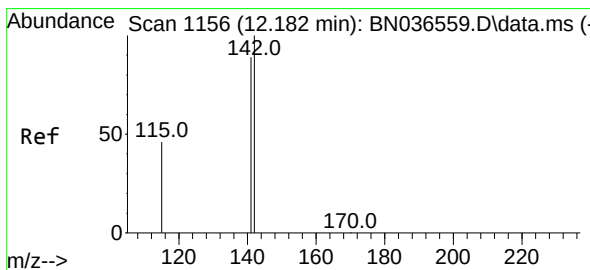
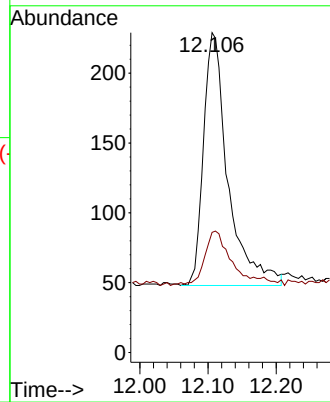
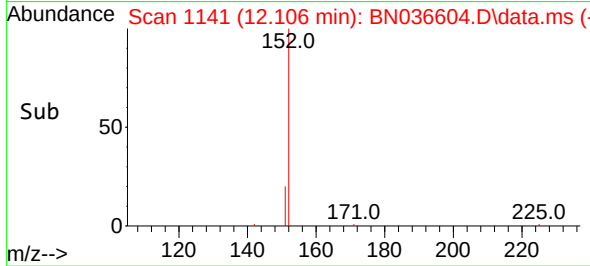
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 452
Ion Ratio Lower Upper
152 100
151 24.3 17.0 25.6

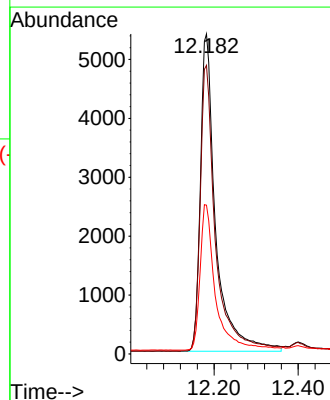
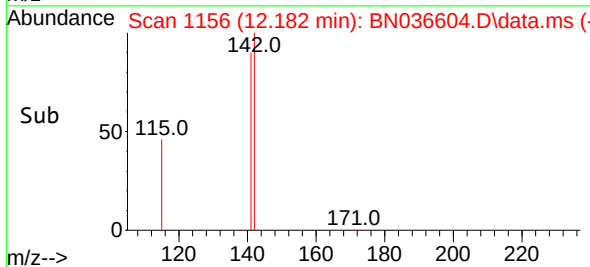
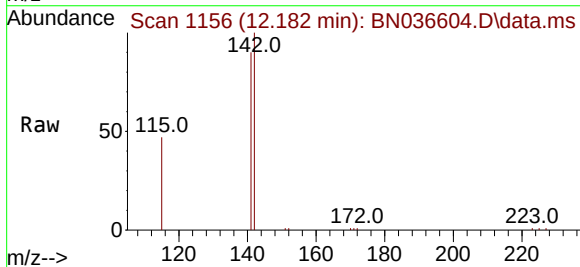
Manual Integrations
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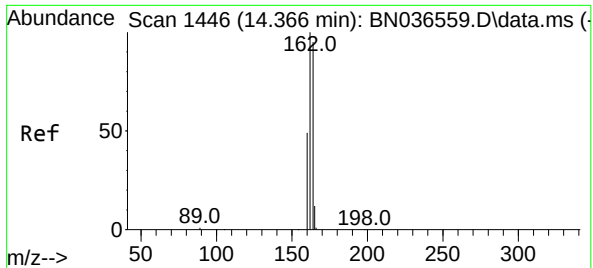
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#12
2-Methylnaphthalene
Concen: 1.755 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

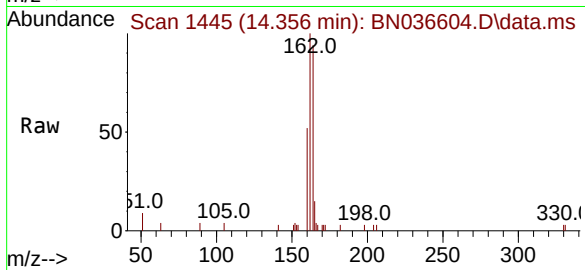
Tgt Ion:142 Resp: 13633
Ion Ratio Lower Upper
142 100
141 90.2 71.7 107.5
115 46.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

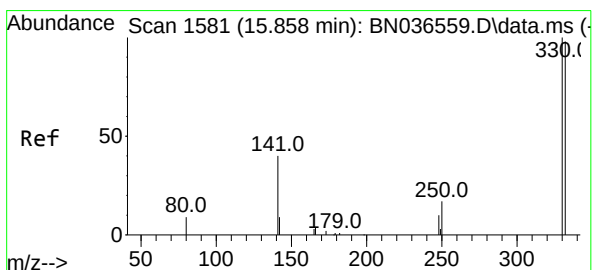
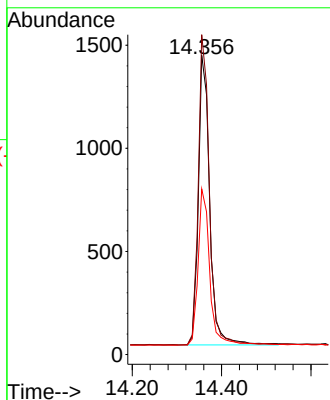
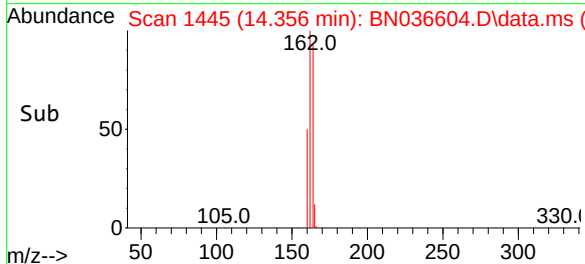
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



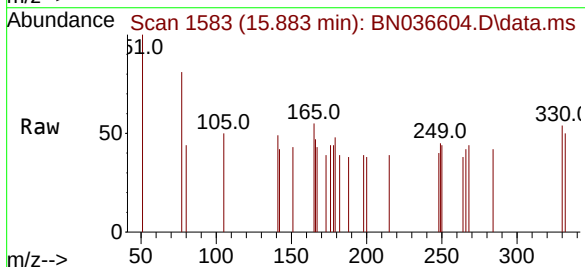
Tgt Ion:164 Resp: 248
Ion Ratio Lower Upper
164 100
162 106.9 84.2 126.2
160 55.3 42.2 63.2

Manual Integrations
APPROVED

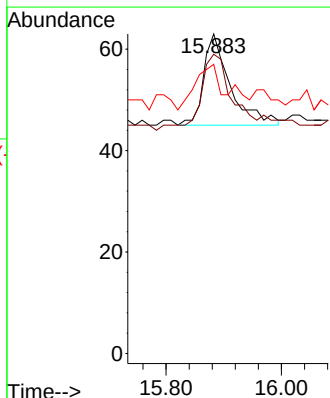
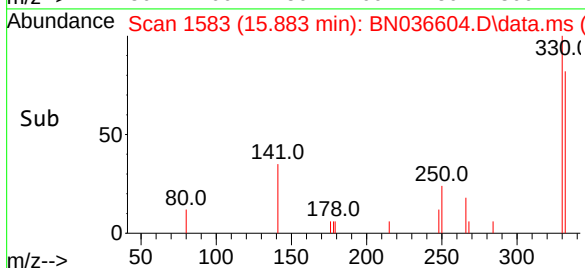
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

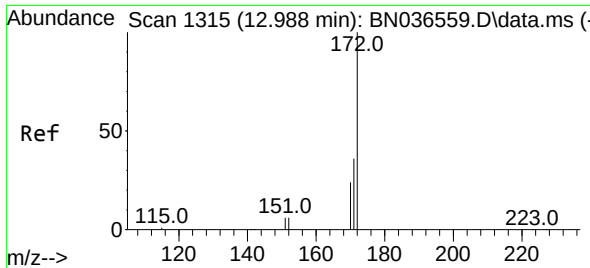


#14
2,4,6-Tribromophenol
Concen: 0.052 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



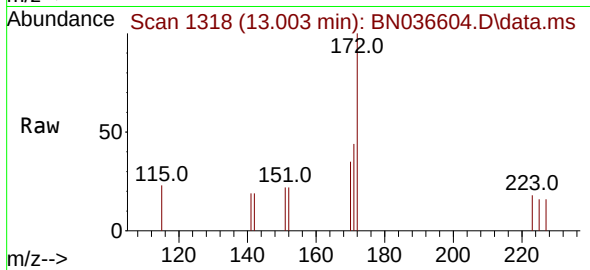
Tgt Ion:330 Resp: 58
Ion Ratio Lower Upper
330 100
332 103.4 75.2 112.8
141 46.6 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.056 ng
RT: 13.003 min Scan# 1315
Delta R.T. 0.015 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

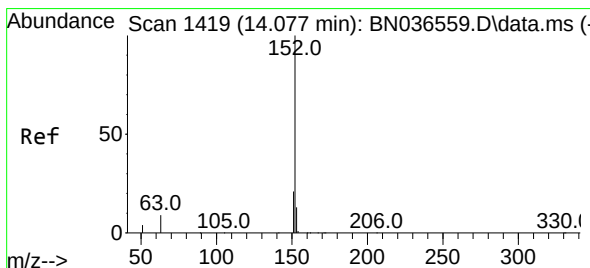
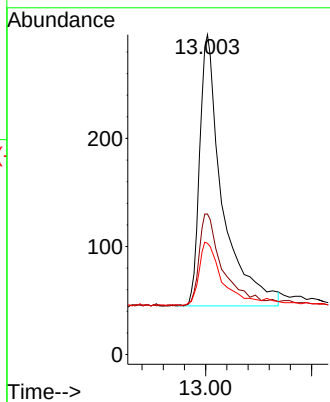
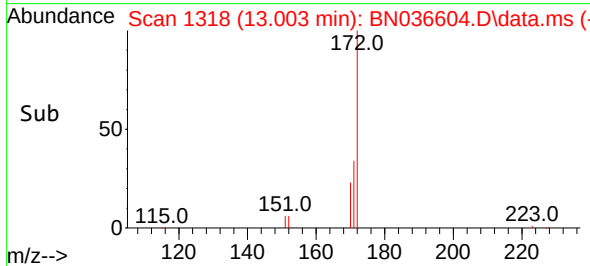
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:172 Resp: 81
Ion Ratio Lower Upper
172 100
171 43.9 29.5 44.3
170 34.8 20.2 30.4

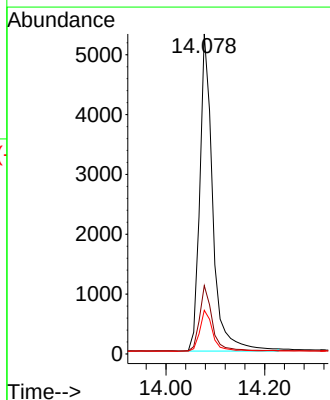
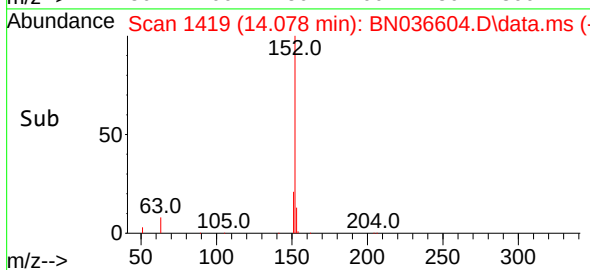
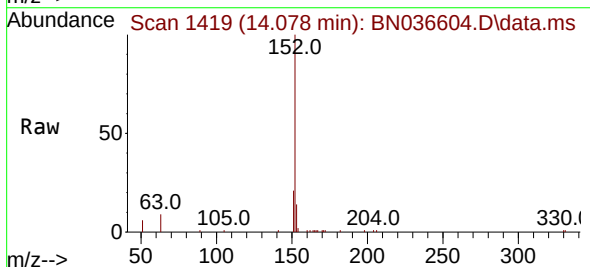
Manual Integrations
APPROVED

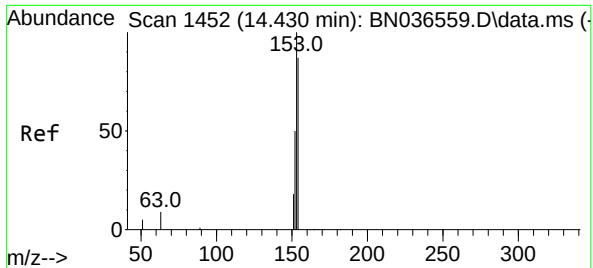
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#16
Acenaphthylene
Concen: 0.825 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

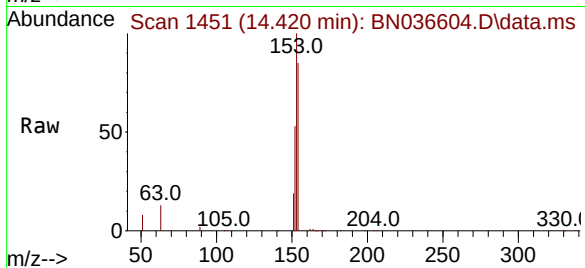
Tgt Ion:152 Resp: 9655
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4
153 12.9 10.6 15.8





#17
Acenaphthene
Concen: 2.702 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.010 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

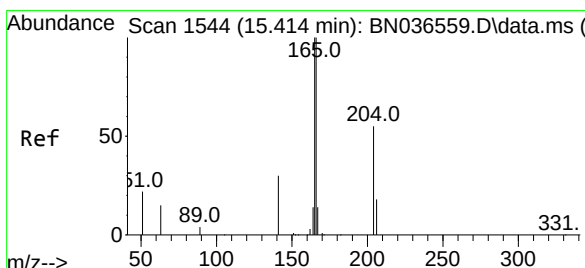
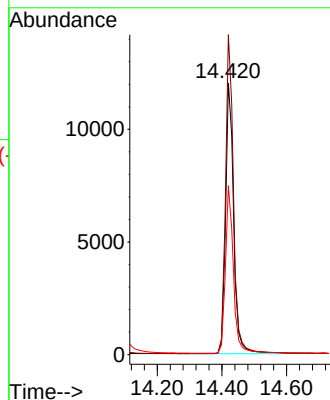
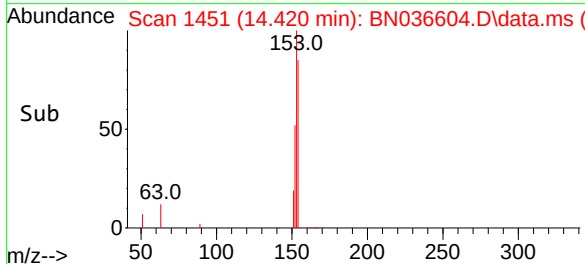
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:154 Resp: 20708
Ion Ratio Lower Upper
154 100
153 116.6 94.1 141.1
152 61.5 49.8 74.6

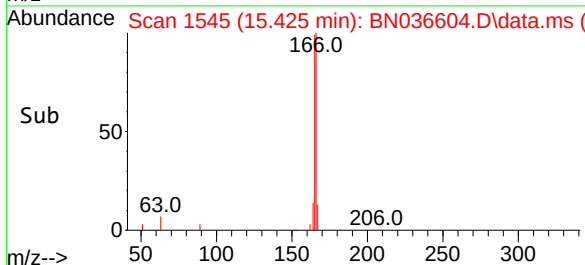
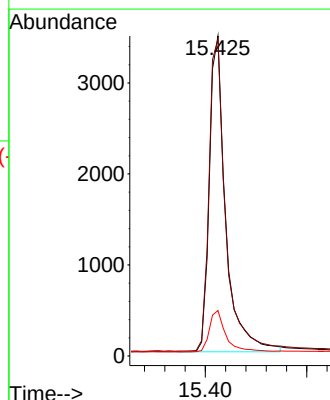
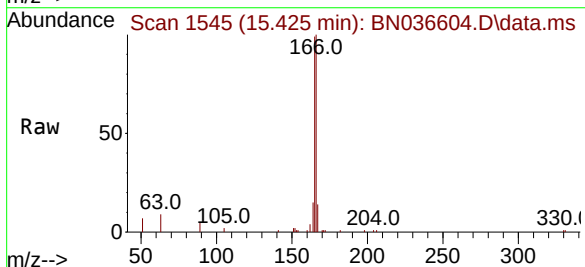
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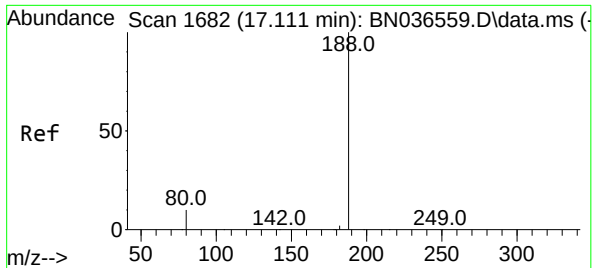
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#18
Fluorene
Concen: 0.770 ng
RT: 15.425 min Scan# 1545
Delta R.T. 0.011 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Tgt Ion:166 Resp: 7985
Ion Ratio Lower Upper
166 100
165 100.1 79.8 119.8
167 12.9 10.6 15.8





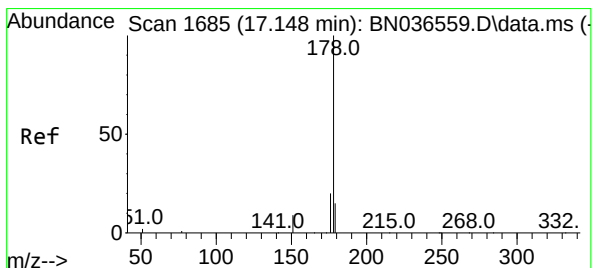
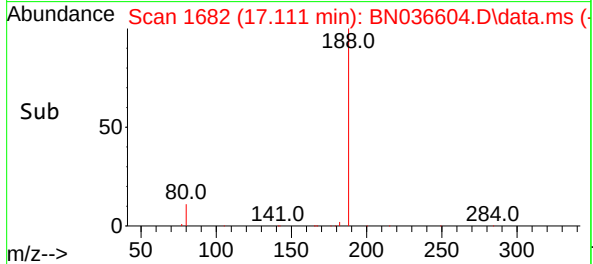
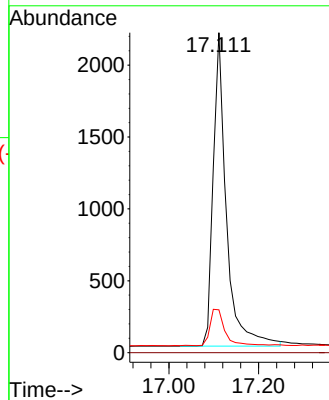
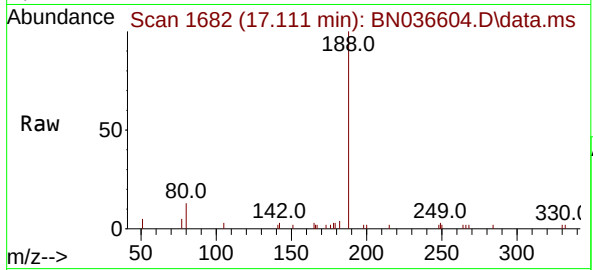
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:188 Resp: 4430
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 8.8 13.2

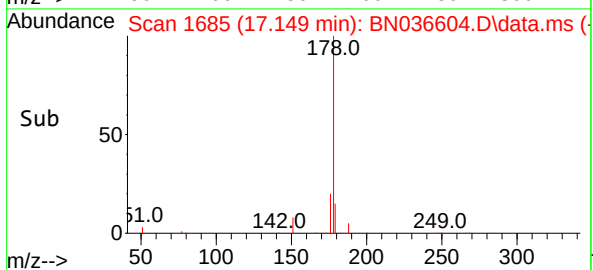
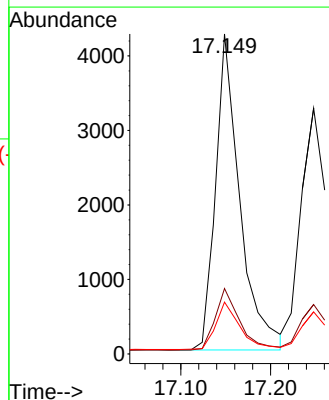
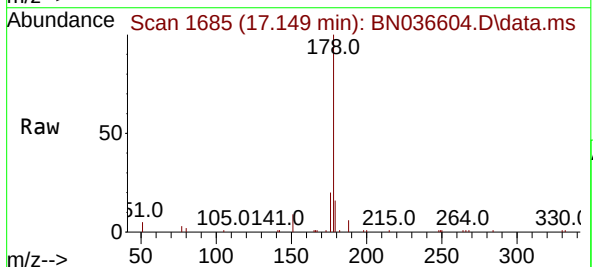
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APPROVED

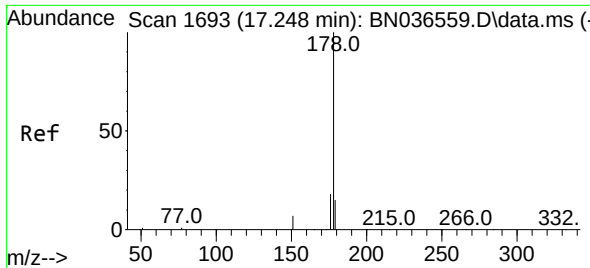
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#25
Phenanthrene
Concen: 0.600 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

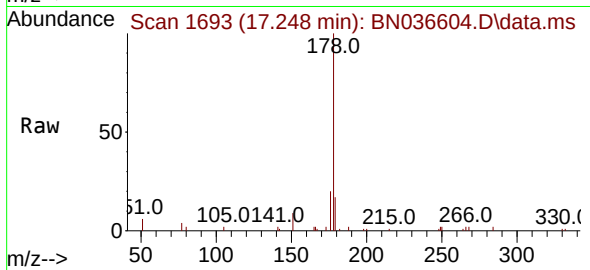
Tgt Ion:178 Resp: 7968
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.2 12.2 18.4





#26
Anthracene
Concen: 0.662 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

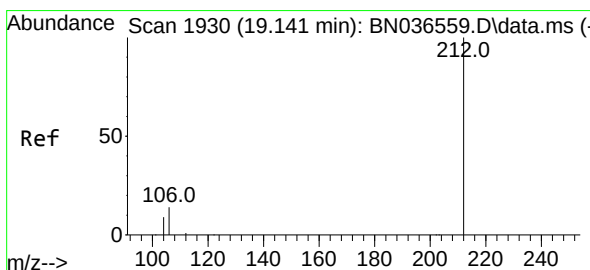
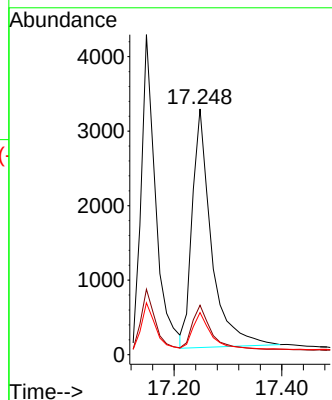
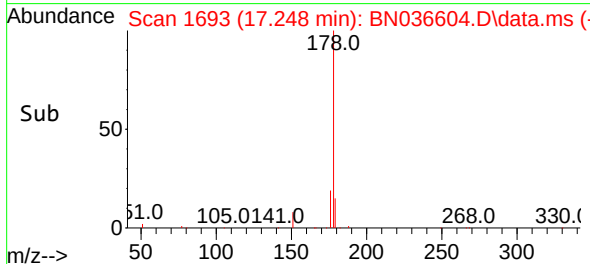
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:178 Resp: 7930
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.2 12.6 18.8

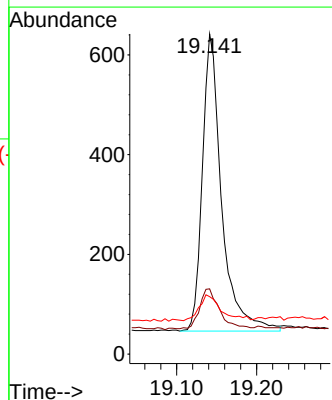
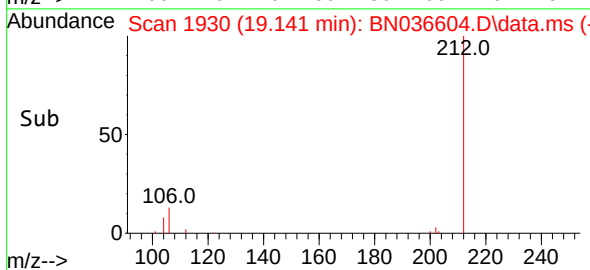
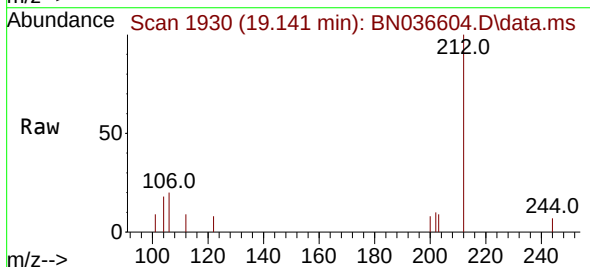
Manual Integrations
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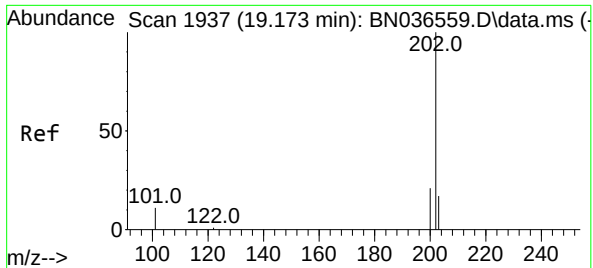
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#27
Fluoranthene-d10
Concen: 0.088 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

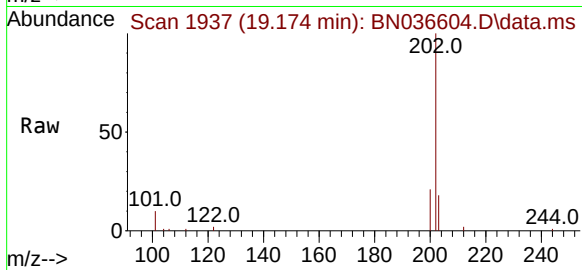
Tgt Ion:212 Resp: 996
Ion Ratio Lower Upper
212 100
106 13.7 11.8 17.6
104 10.0 7.3 10.9





#28
Fluoranthene
Concen: 0.795 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

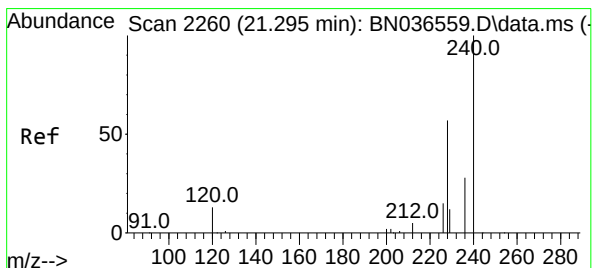
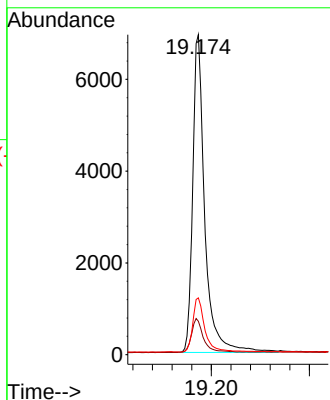
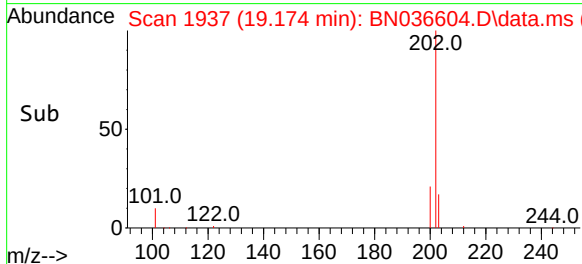
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:202 Resp: 1186
Ion Ratio Lower Upper
202 100
101 10.5 9.4 14.0
203 17.2 13.5 20.3

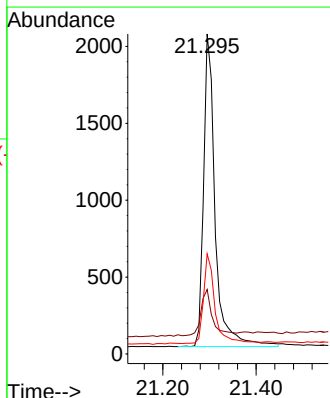
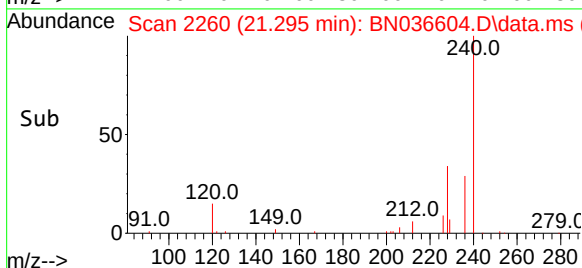
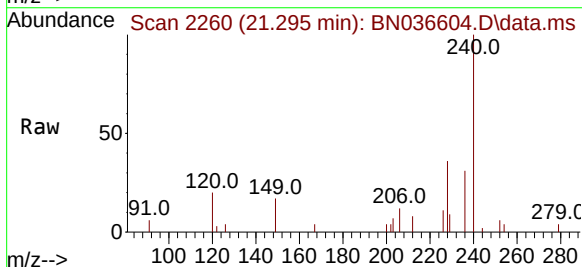
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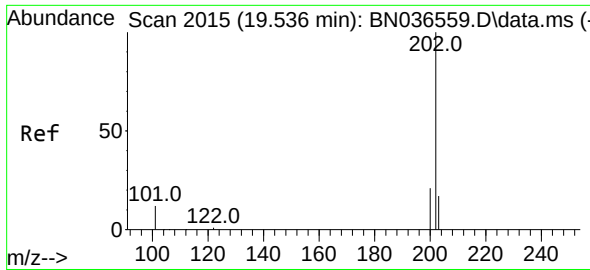
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

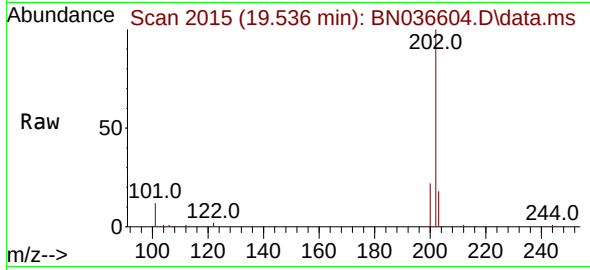
Tgt Ion:240 Resp: 3514
Ion Ratio Lower Upper
240 100
120 20.2 14.6 22.0
236 31.3 24.1 36.1





#30
Pyrene
Concen: 0.528 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

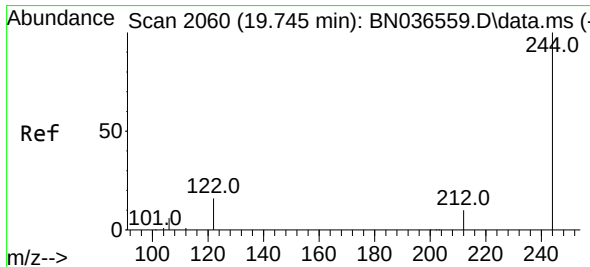
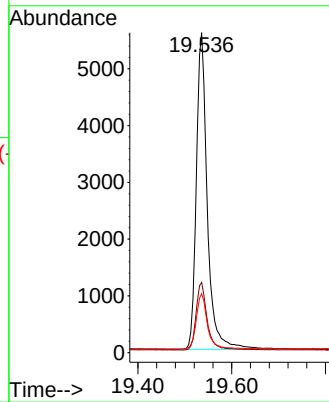
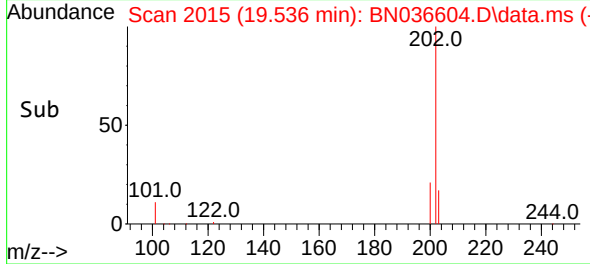
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:202 Resp: 9070
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.9 14.1 21.1

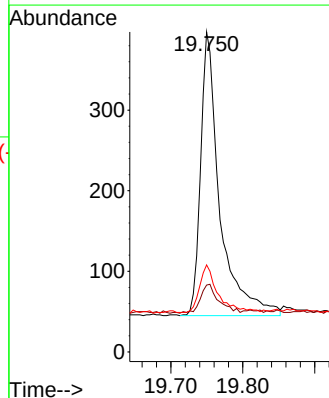
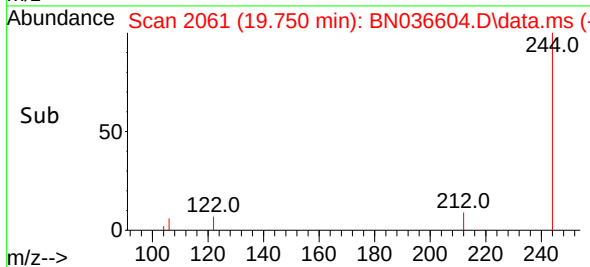
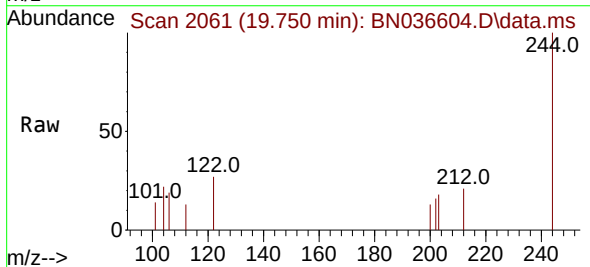
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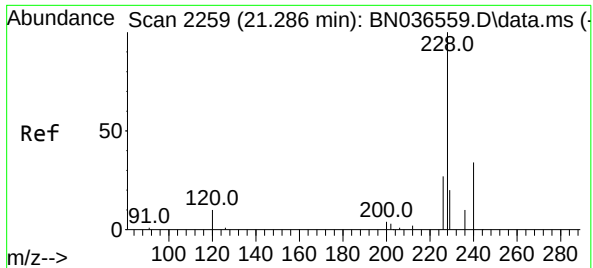
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#31
Terphenyl-d14
Concen: 0.077 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

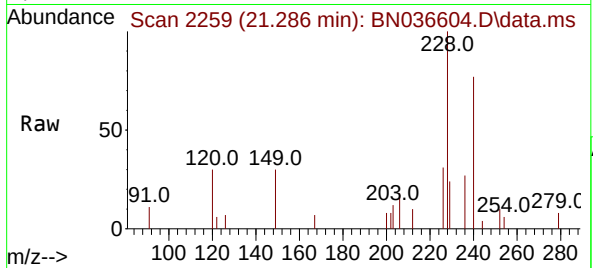
Tgt Ion:244 Resp: 651
Ion Ratio Lower Upper
244 100
212 20.9 9.6 14.4#
122 27.2 13.9 20.9#





#32
Benzo(a)anthracene
Concen: 0.156 ng
RT: 21.286 min Scan# 21259
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

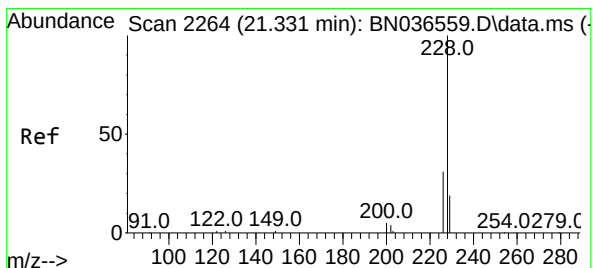
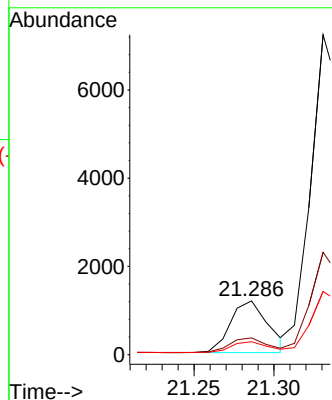
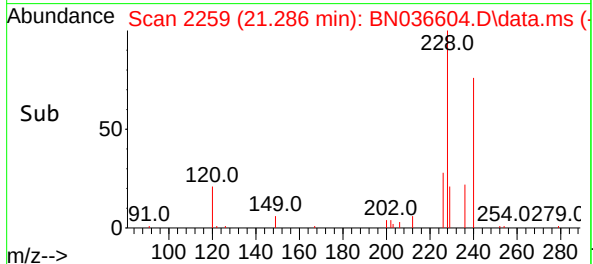
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:228 Resp: 1908
Ion Ratio Lower Upper
228 100
226 31.3 22.5 33.7
229 24.2 16.6 25.0

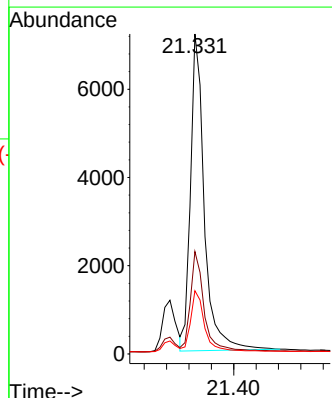
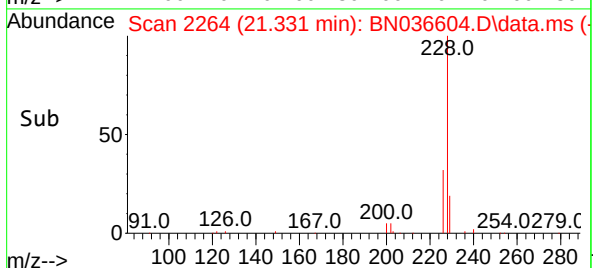
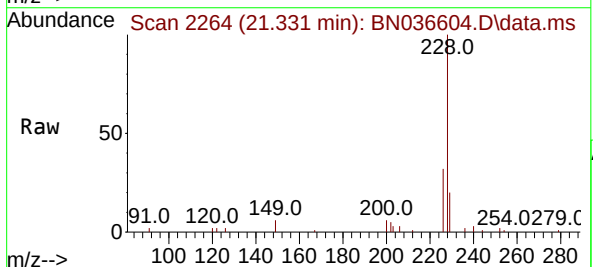
Manual Integrations
APPROVED

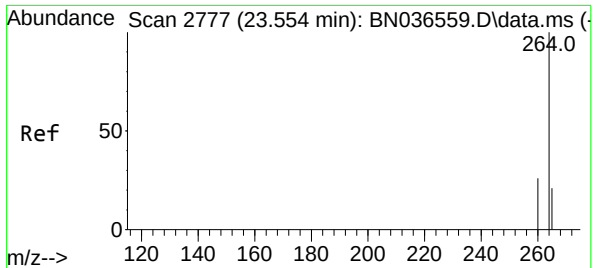
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#33
Chrysene
Concen: 0.920 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

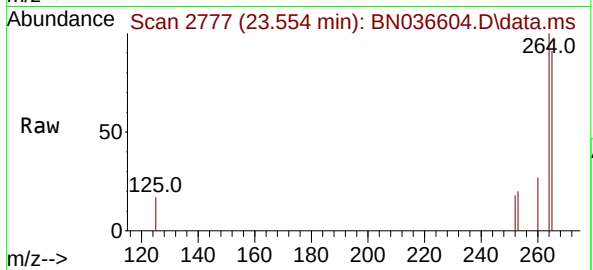
Tgt Ion:228 Resp: 12287
Ion Ratio Lower Upper
228 100
226 32.0 25.3 37.9
229 19.8 15.8 23.8





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

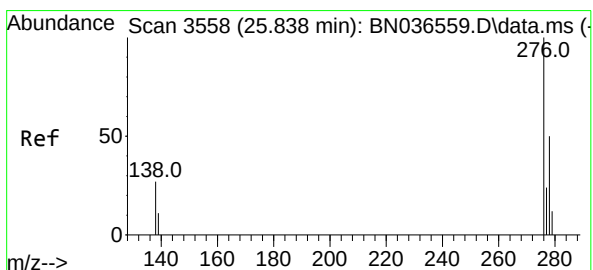
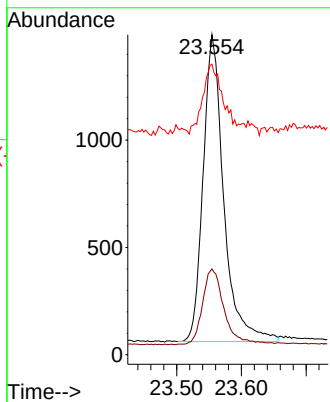
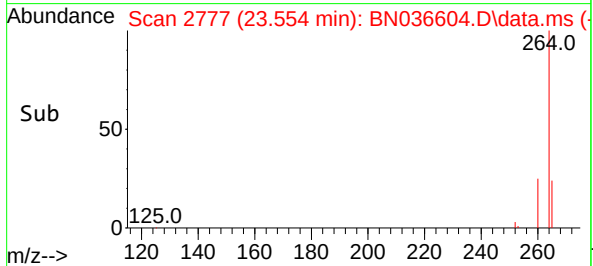
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:264 Resp: 3160
Ion Ratio Lower Upper
264 100
260 26.8 22.6 33.8
265 90.8 88.1 132.1

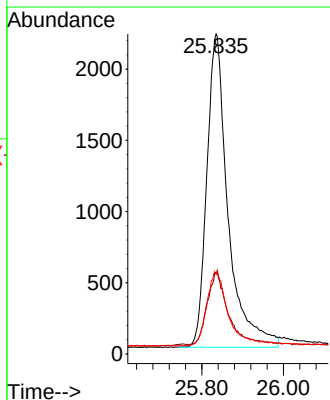
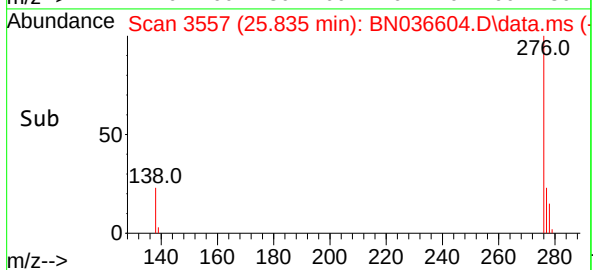
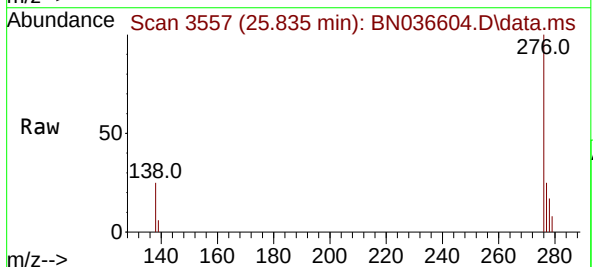
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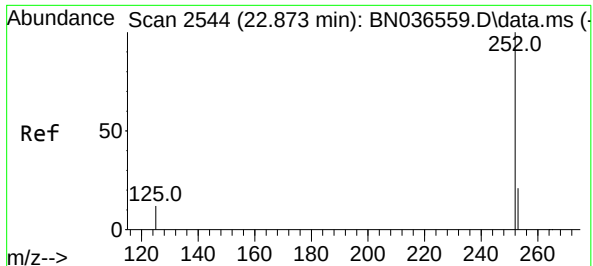
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.696 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Tgt Ion:276 Resp: 7952
Ion Ratio Lower Upper
276 100
138 22.6 23.4 35.2#
277 22.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.800 ng m

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036604.D

Acq: 14 Mar 2025 12:11

Instrument :

BNA_N

ClientSampleId :

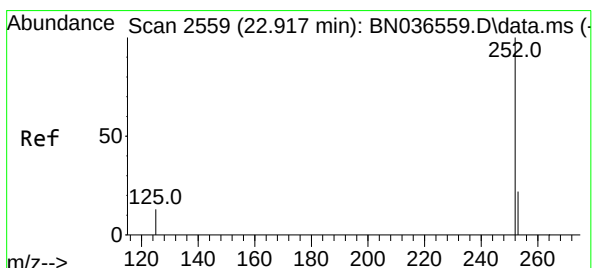
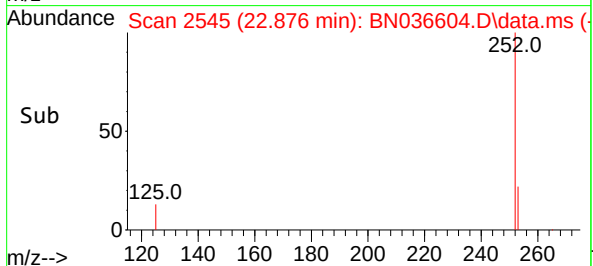
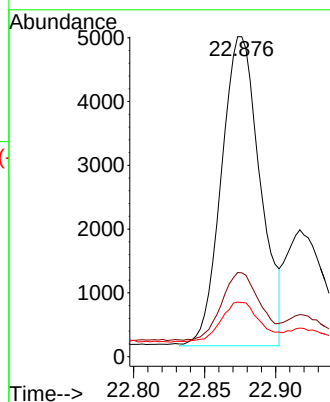
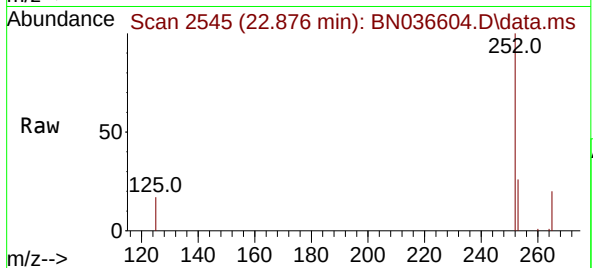
RR-PAH-WPDL

Tgt Ion:252	Resp:	921
Ion Ratio	Lower	Upper
252	100	
253	26.2	23.9 35.9
125	17.0	17.4 26.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/17/2025



#38

Benzo(k)fluoranthene

Concen: 0.272 ng

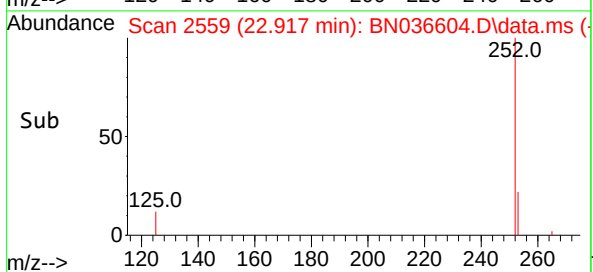
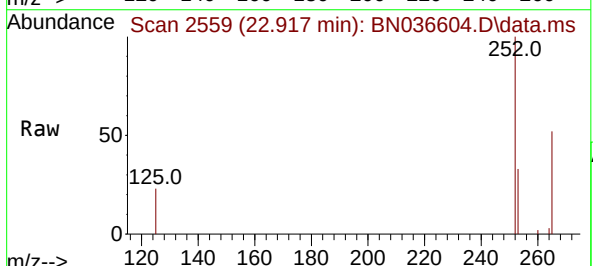
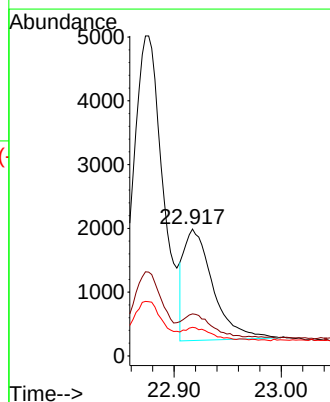
RT: 22.917 min Scan# 2559

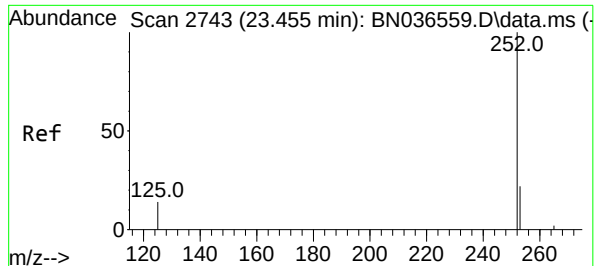
Delta R.T. 0.000 min

Lab File: BN036604.D

Acq: 14 Mar 2025 12:11

Tgt Ion:252	Resp:	3283
Ion Ratio	Lower	Upper
252	100	
253	33.2	24.6 36.8
125	22.5	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036604.D

Acq: 14 Mar 2025 12:11

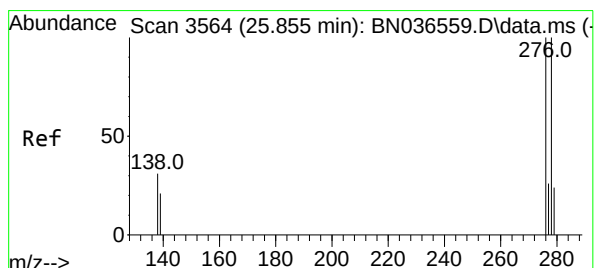
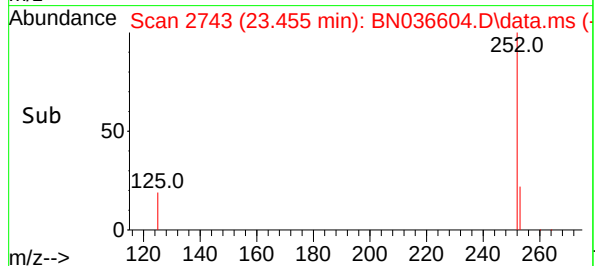
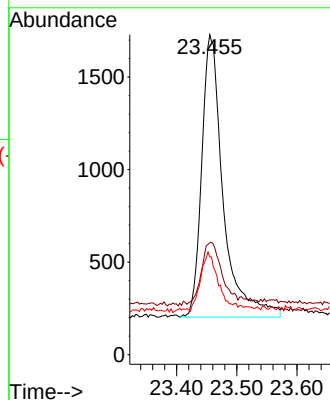
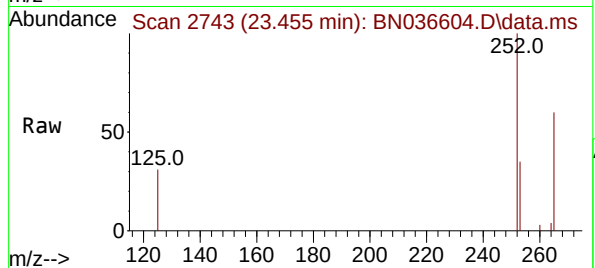
Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

Tgt Ion:	252	Resp:	377
Ion Ratio	Lower	Upper	
252	100		
253	35.0	27.8	41.8
125	30.6	22.7	34.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.240 ng

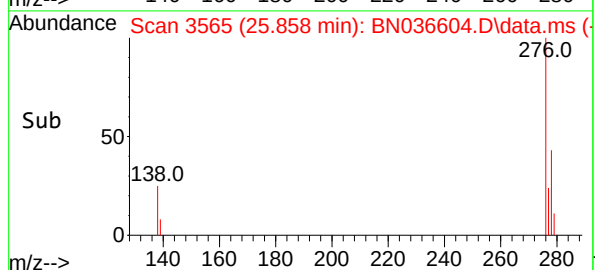
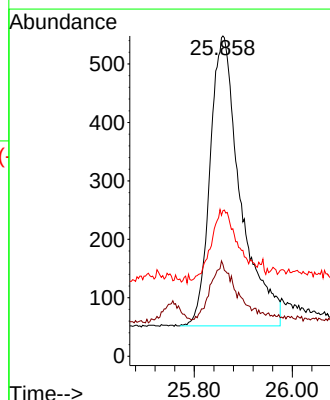
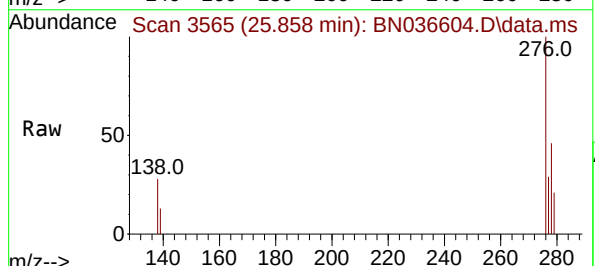
RT: 25.858 min Scan# 3565

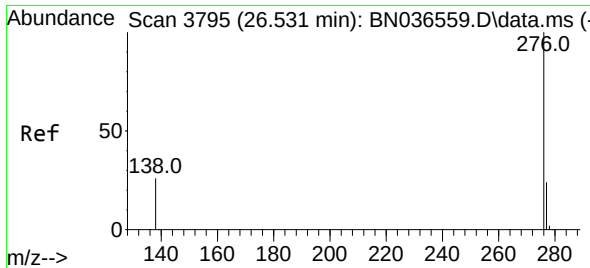
Delta R.T. 0.003 min

Lab File: BN036604.D

Acq: 14 Mar 2025 12:11

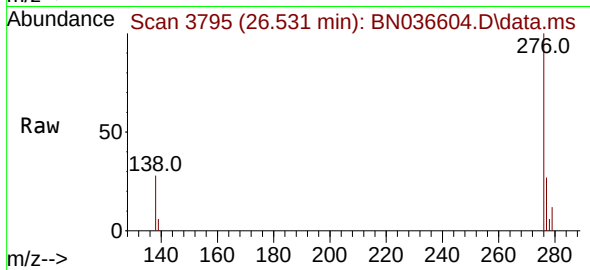
Tgt Ion:	278	Resp:	2135
Ion Ratio	Lower	Upper	
278	100		
139	28.6	20.8	31.2
279	45.4	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.420 ng
RT: 26.531 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

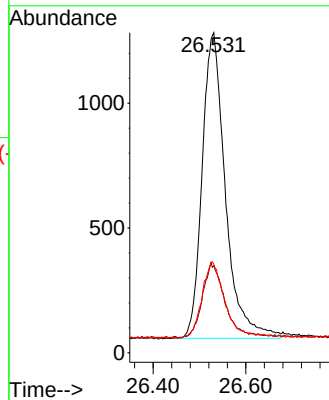
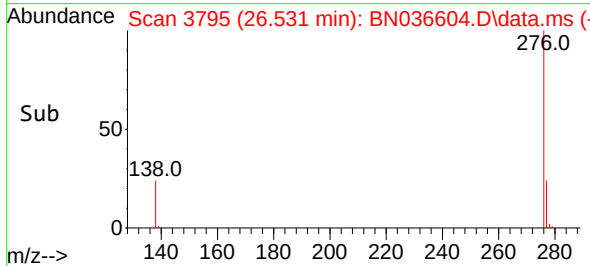
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 276 Resp: 4270
Ion Ratio Lower Upper
276 100
277 27.2 22.2 33.4
138 27.7 24.1 36.1

Manual Integrations
APPROVED

Reviewed By : Anahy Claudio 03/17/2025
Supervised By : Jagrut Upadhyay 03/17/2025





CALIBRATION SUMMARY

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

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

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

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

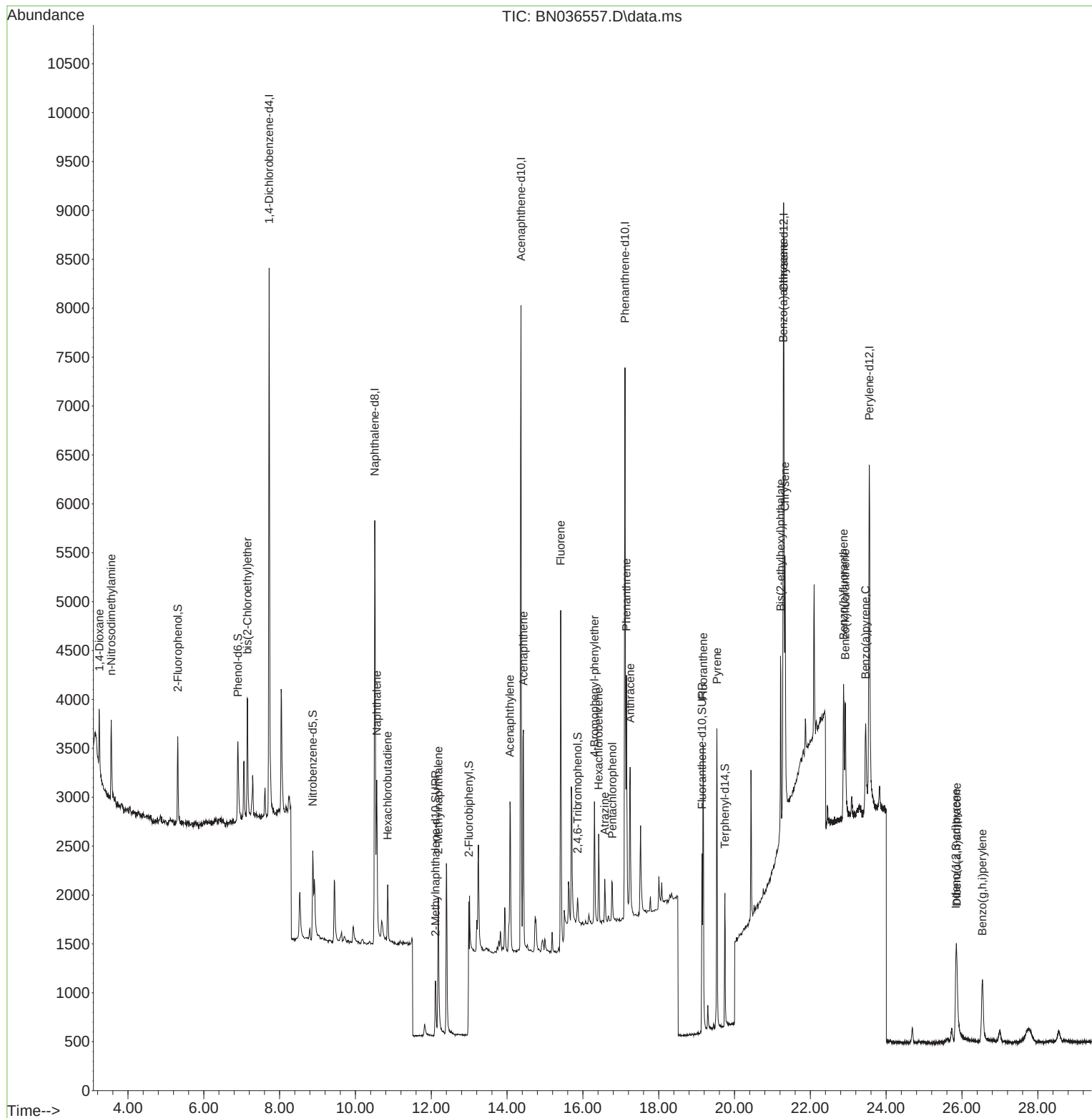
Manual Integrations

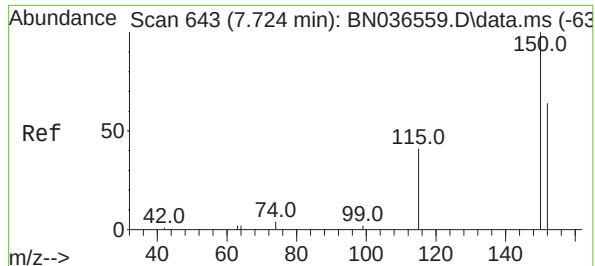
APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

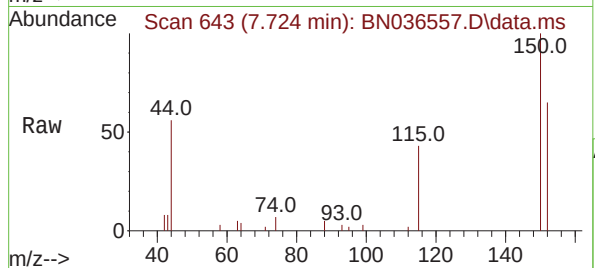
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration





#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

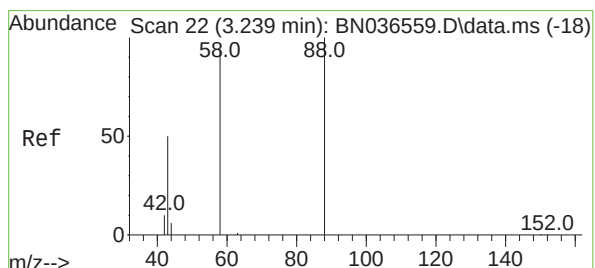
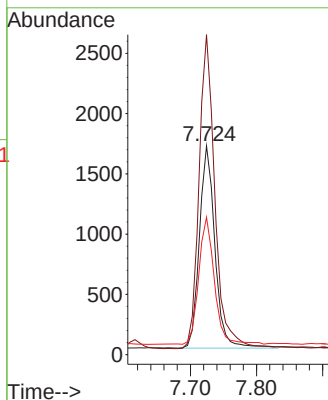
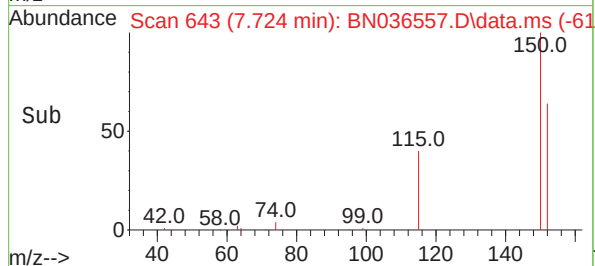
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

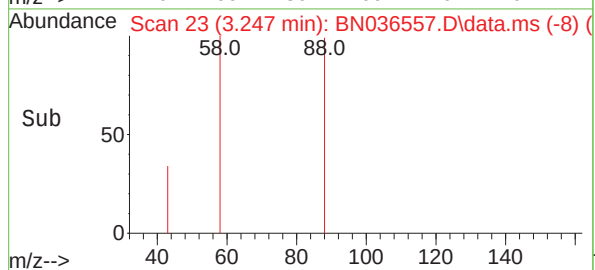
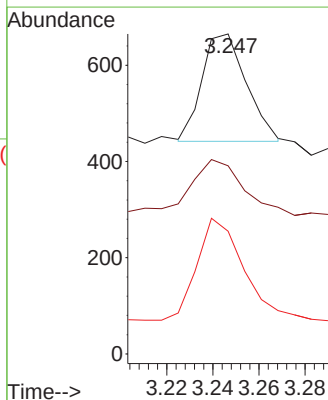
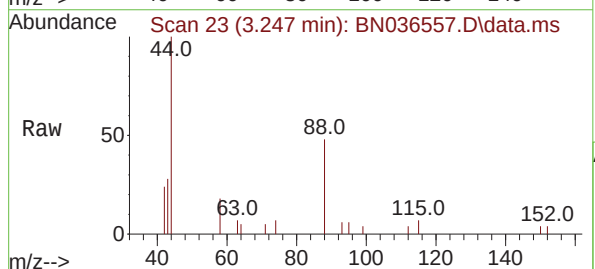
Manual Integrations
APPROVED

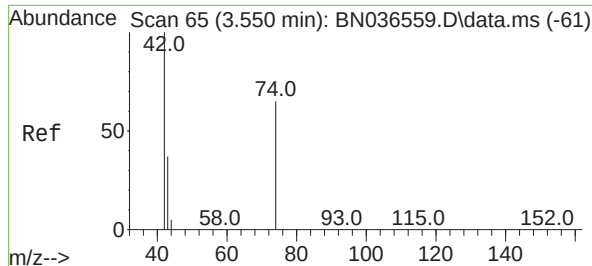
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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 :

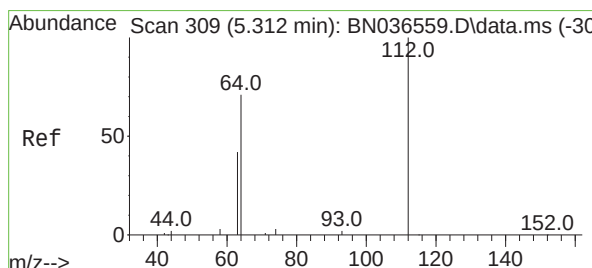
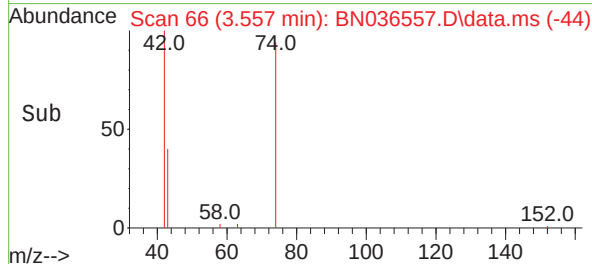
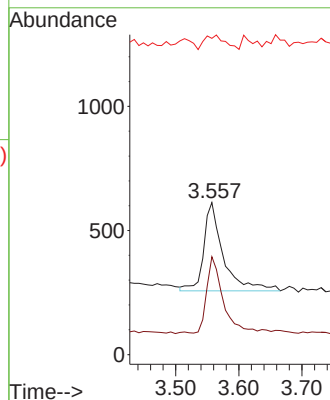
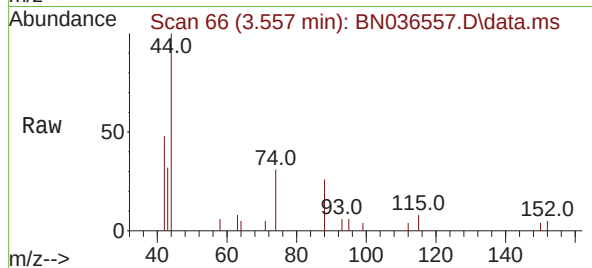
SSTDICC0.1

Tgt Ion:	42	Resp:	76
Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	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: 0.100 ng

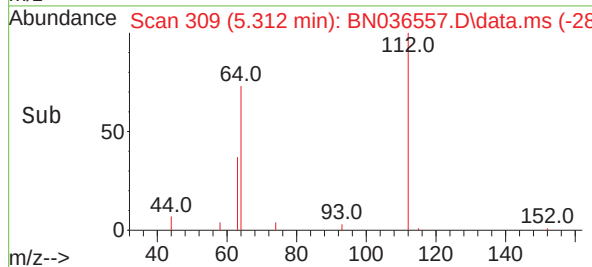
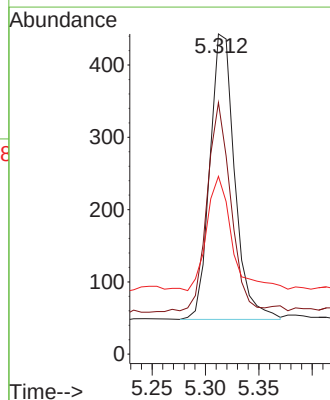
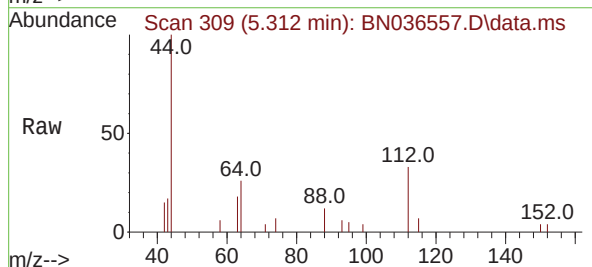
RT: 5.312 min Scan# 309

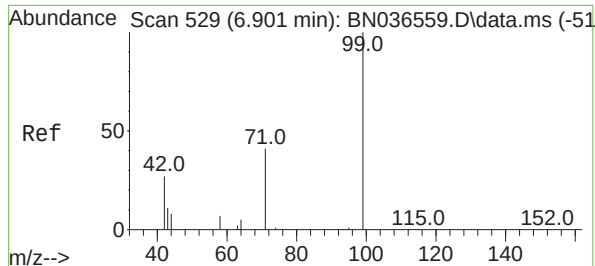
Delta R.T. 0.000 min

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





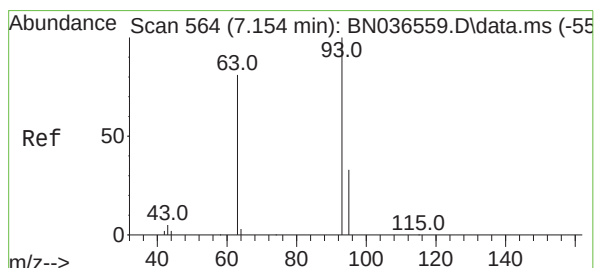
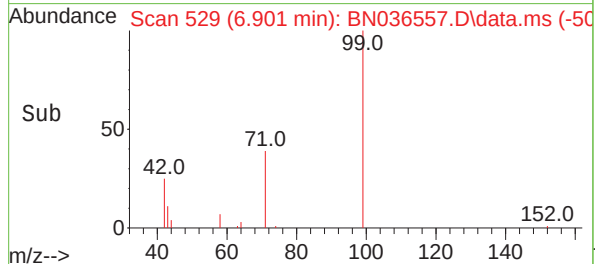
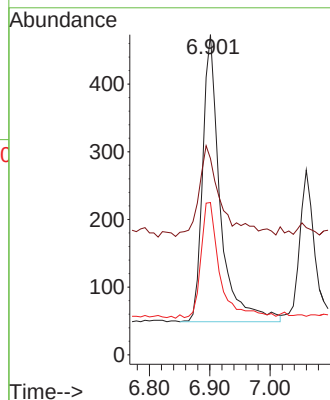
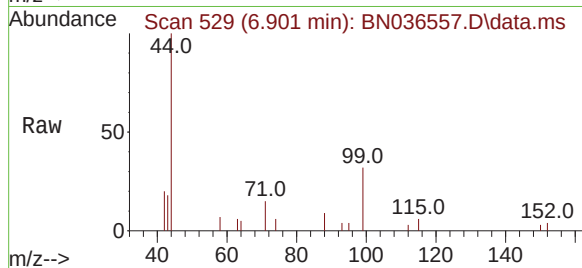
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

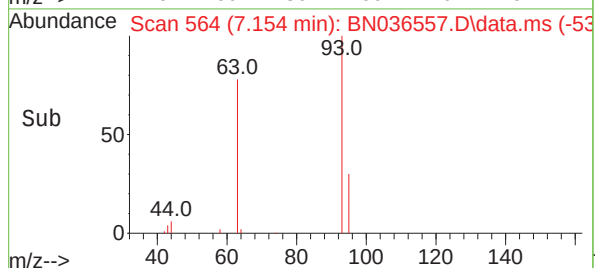
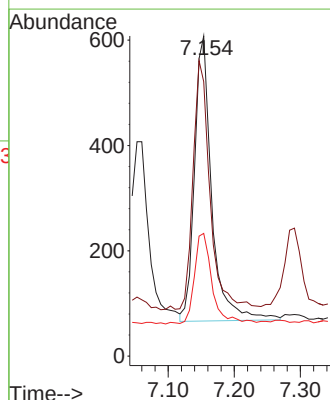
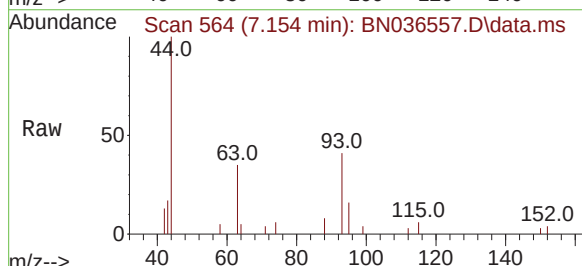
Manual Integrations
APPROVED

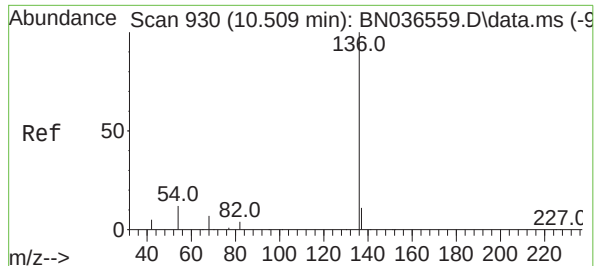
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

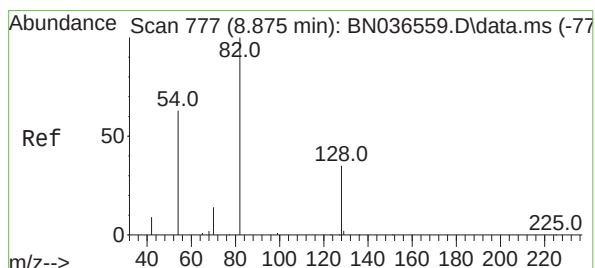
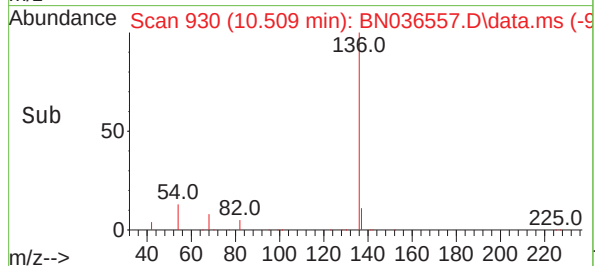
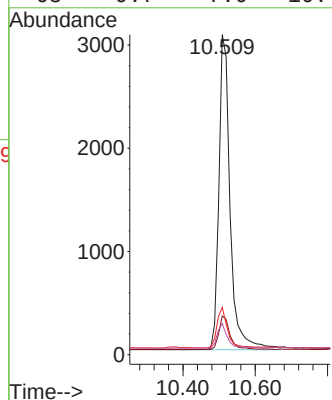
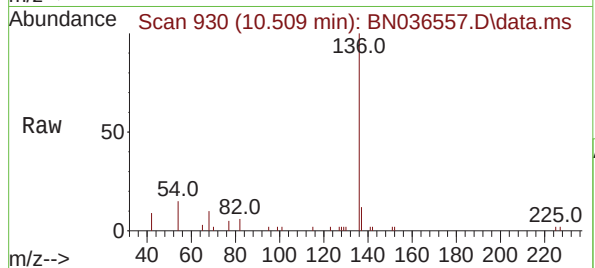
ClientSampleId :

SSTDIC0.1

Tgt 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

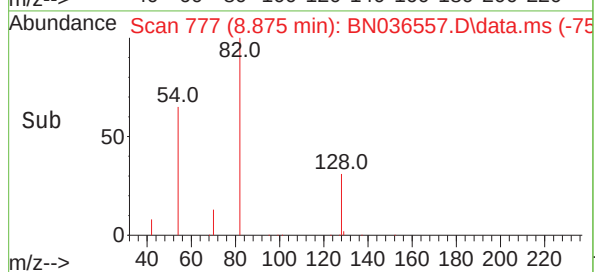
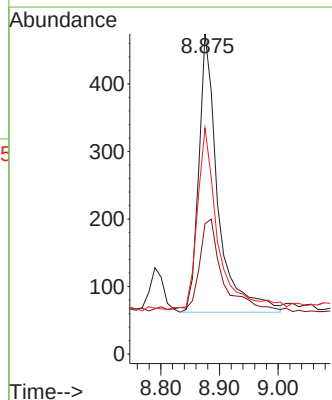
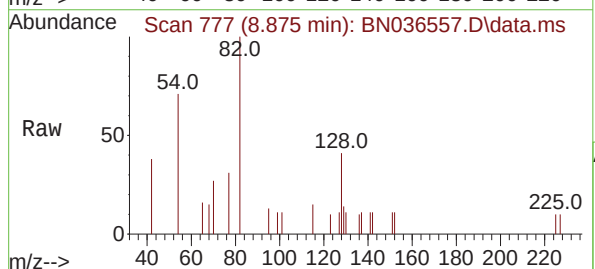
Manual Integrations
APPROVED

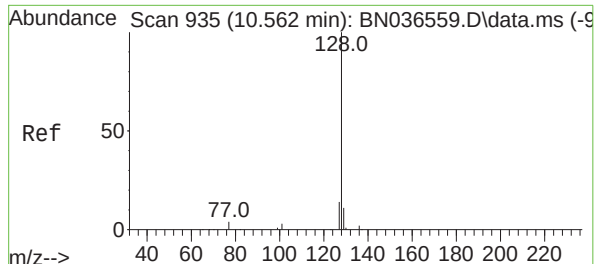
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4





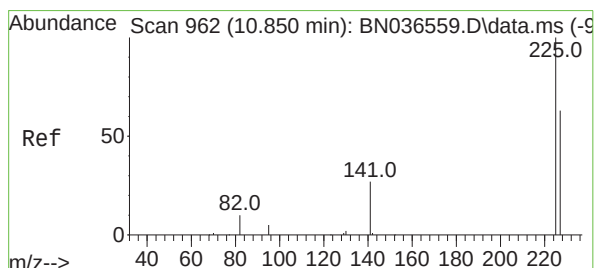
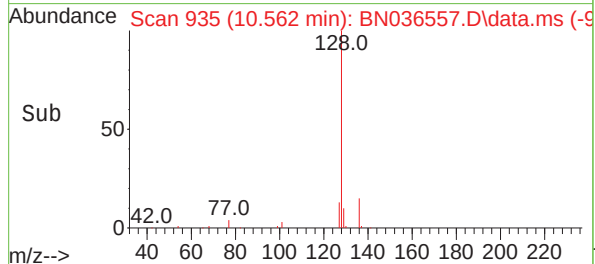
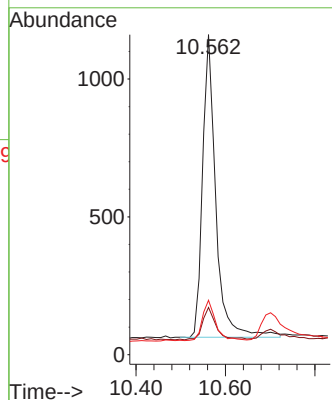
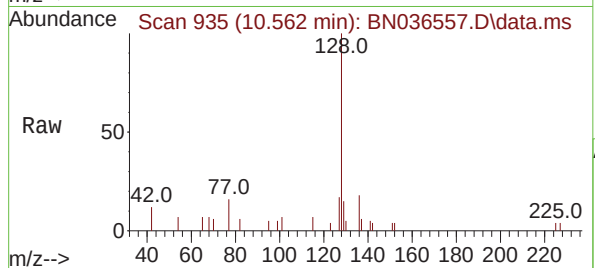
#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

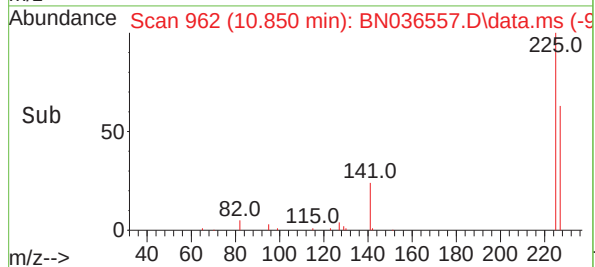
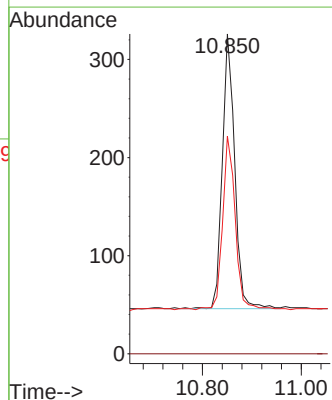
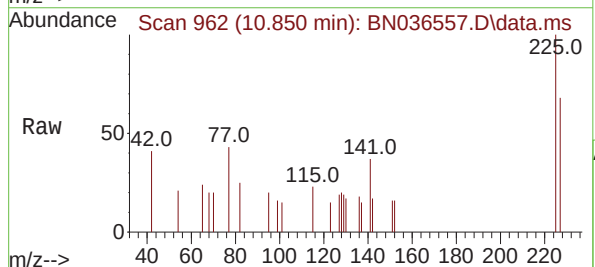
Manual Integrations
APPROVED

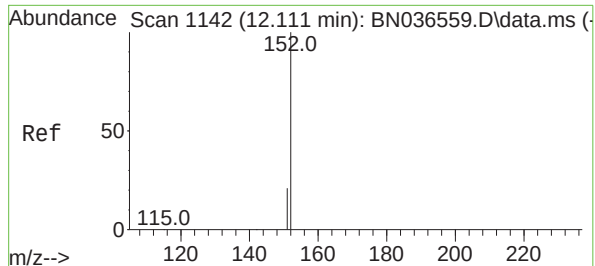
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

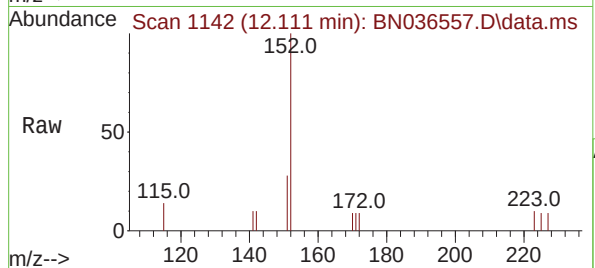
Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8





#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

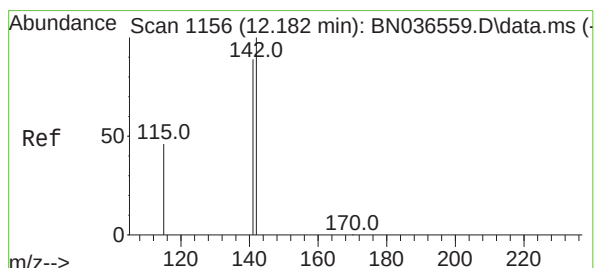
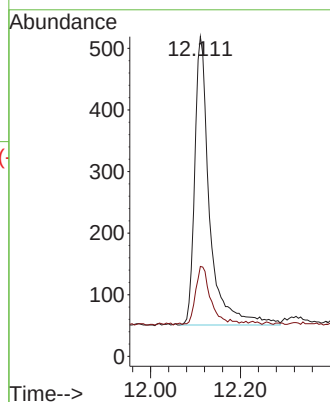
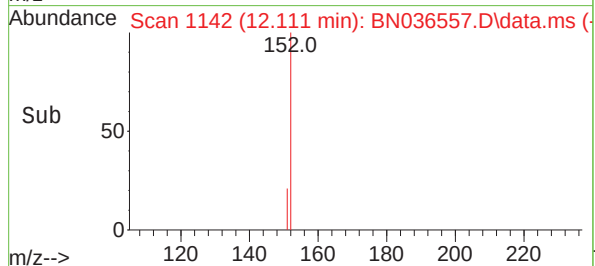
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6

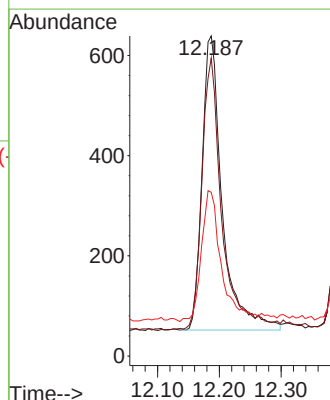
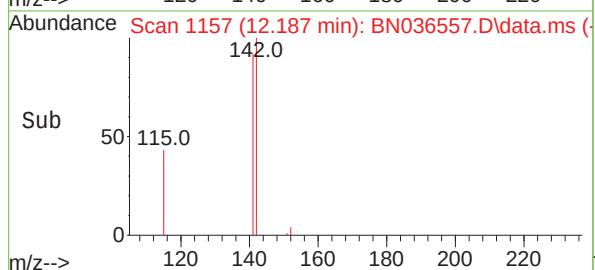
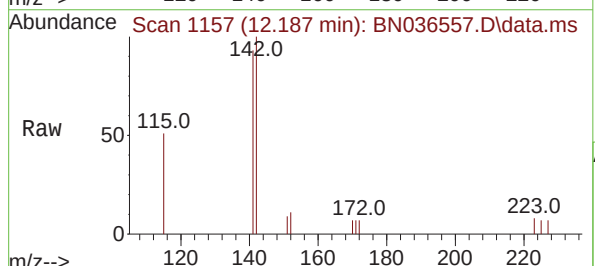
Manual Integrations
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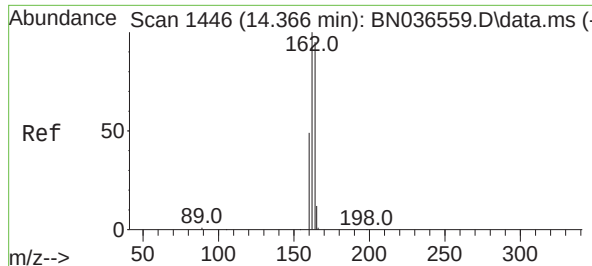
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

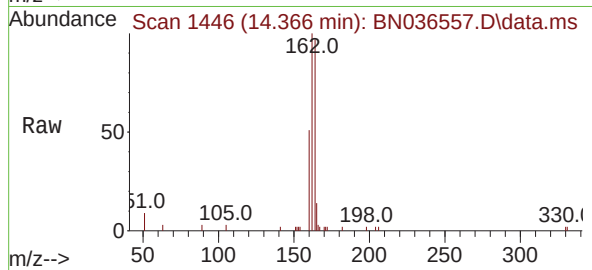
Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#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

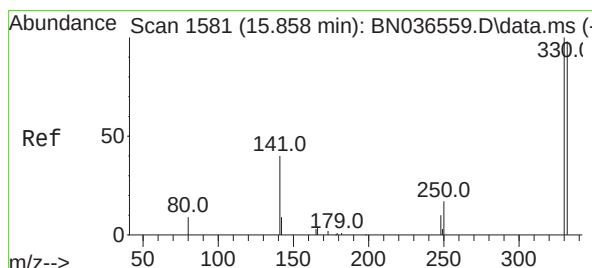
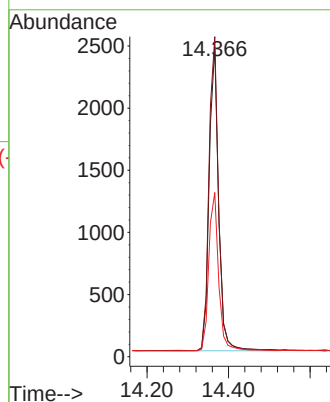
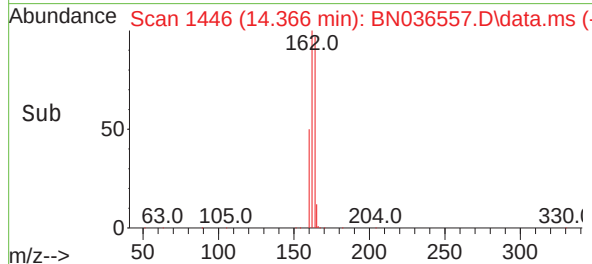
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



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

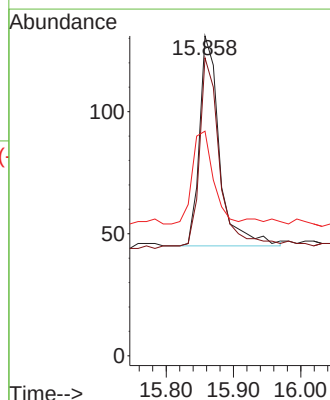
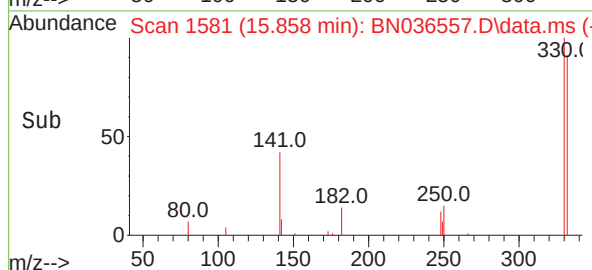
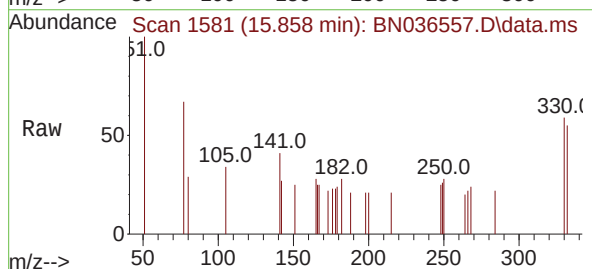
Manual Integrations
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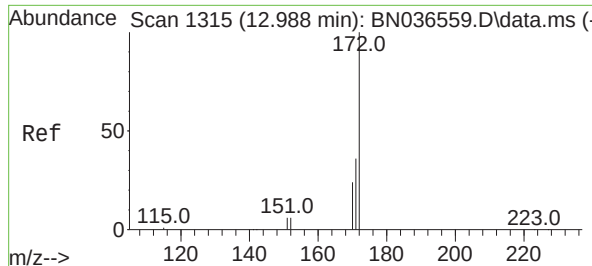
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#14
2,4,6-Tribromophenol
Concen: 0.100 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

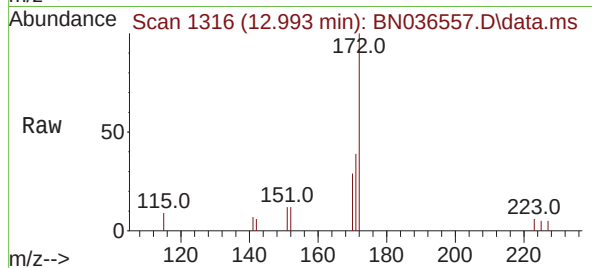
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:172 Resp: 218

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

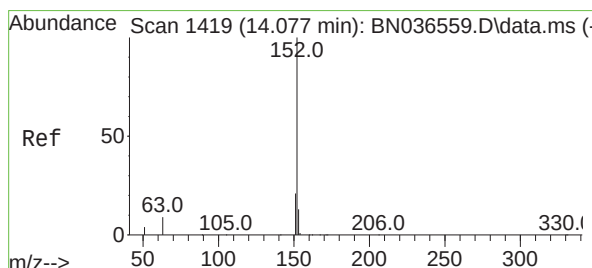
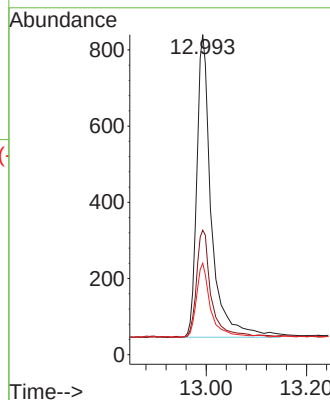
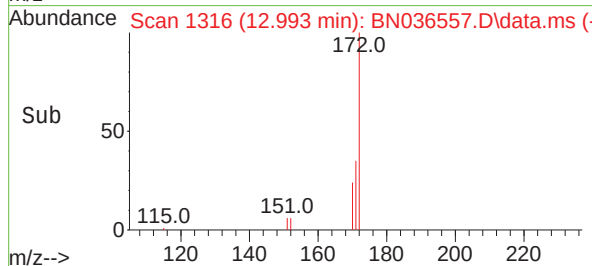
170 28.6 20.2 30.4

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Supervised By :Jagrut Upadhyay 03/11/2025



#16

Acenaphthylene

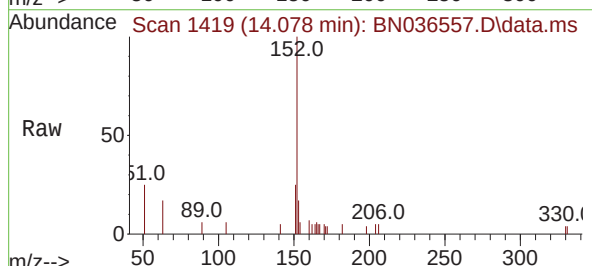
Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



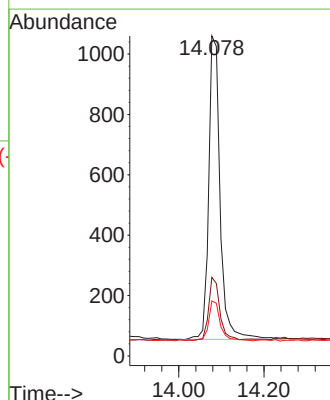
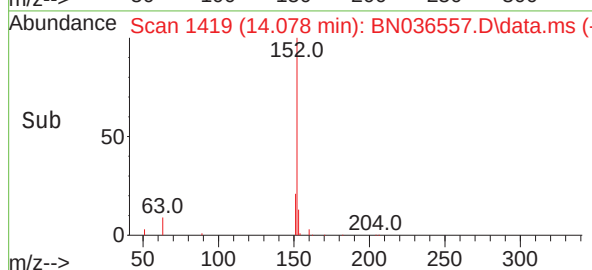
Tgt Ion:152 Resp: 1862

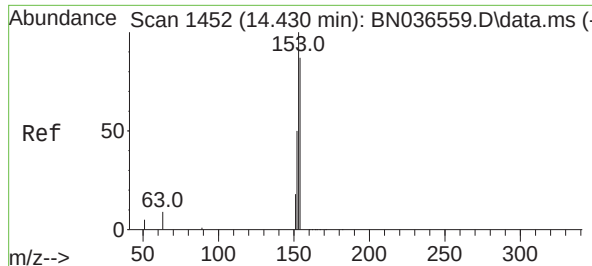
Ion Ratio Lower Upper

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

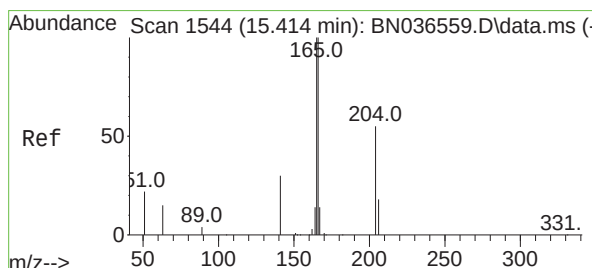
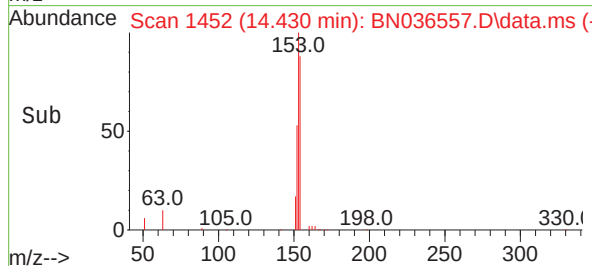
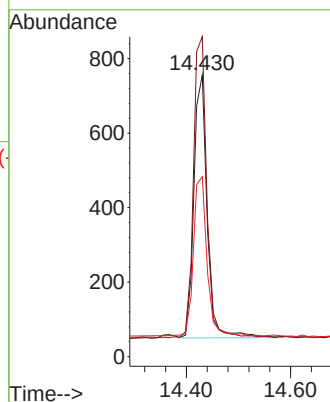
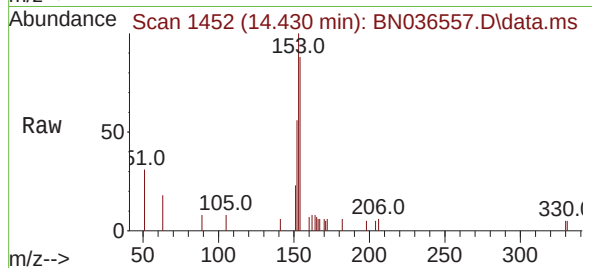
ClientSampleId :

SSTDICC0.1

Tgt Ion:154	Resp:	124
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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Supervised By :Jagrut Upadhyay 03/11/2025



#18

Fluorene

Concen: 0.097 ng

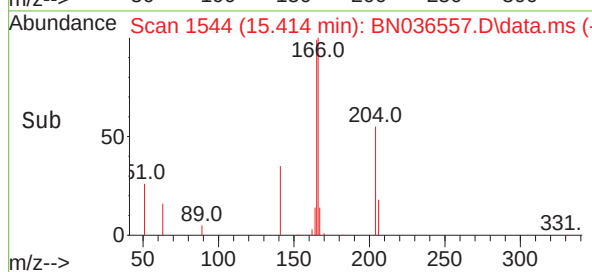
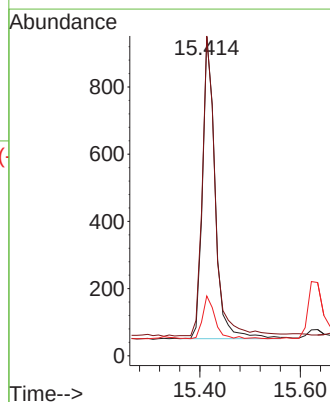
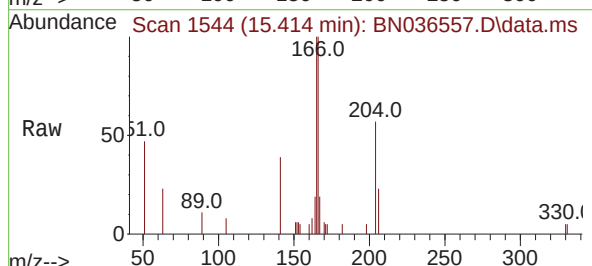
RT: 15.414 min Scan# 1544

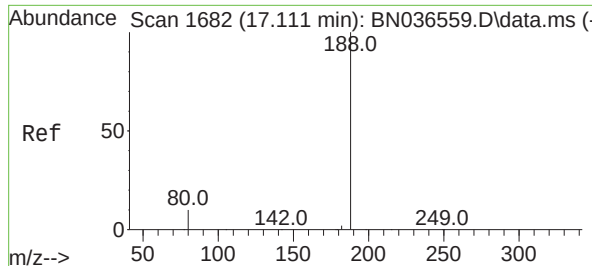
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion: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# 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

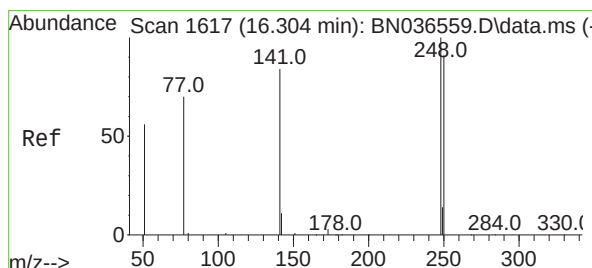
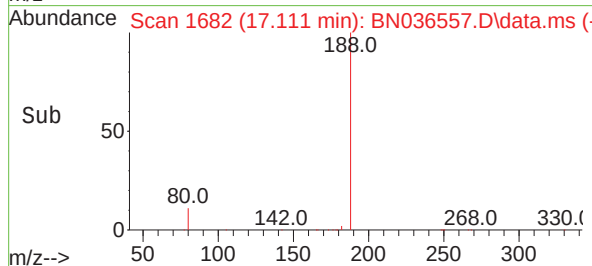
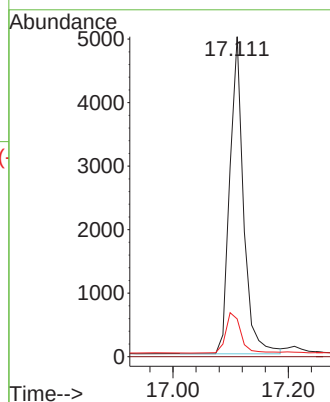
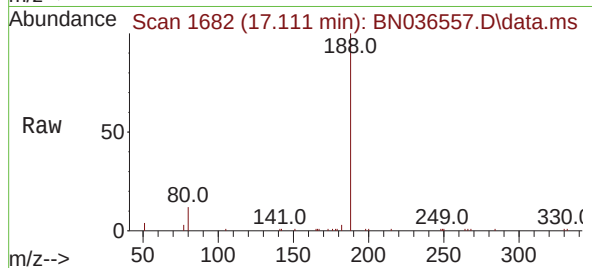
80 11.8 8.8 13.2

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

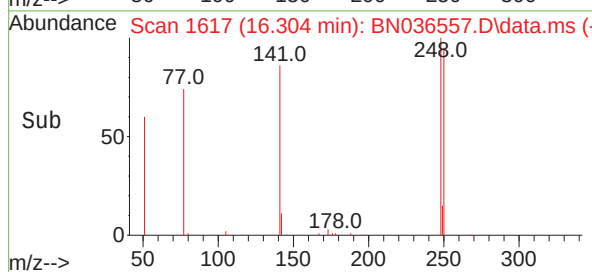
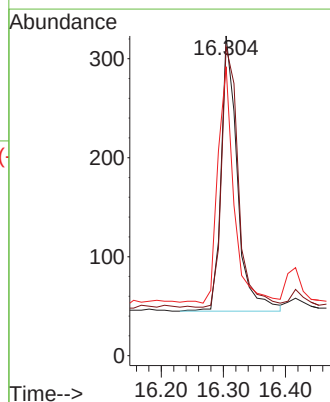
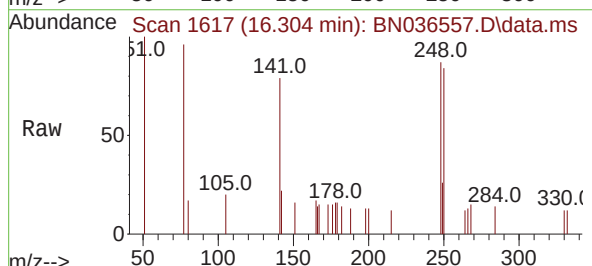
Tgt Ion:248 Resp: 502

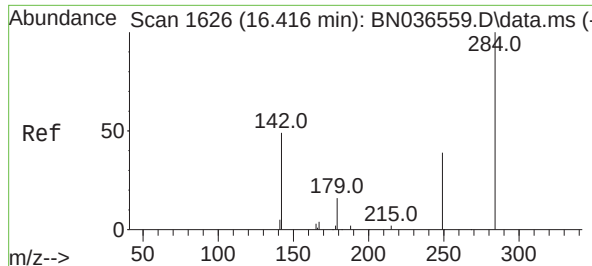
Ion Ratio Lower Upper

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

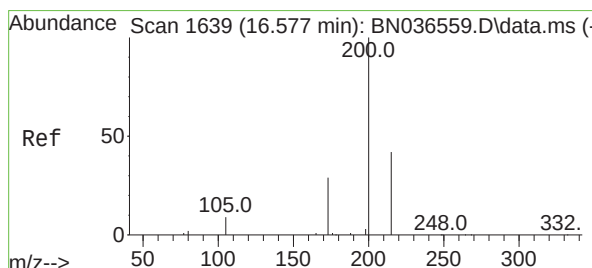
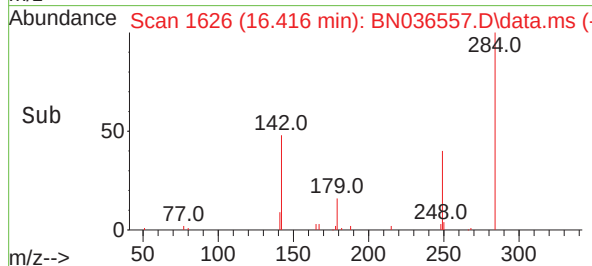
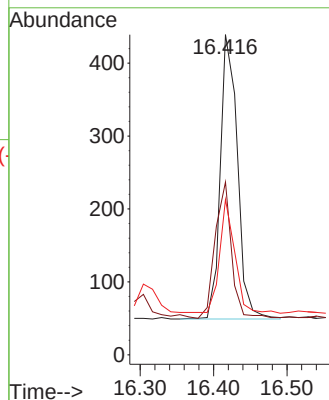
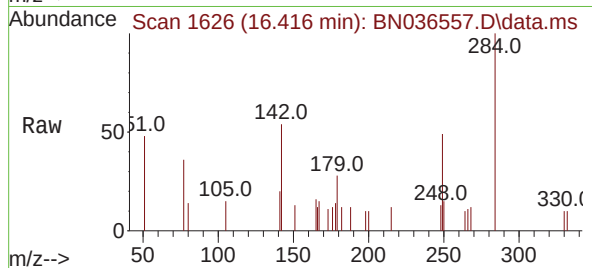
ClientSampleId :

SSTDICC0.1

Tgt Ion	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

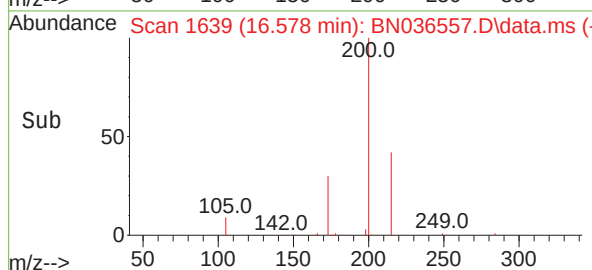
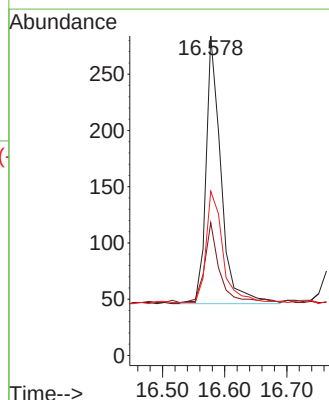
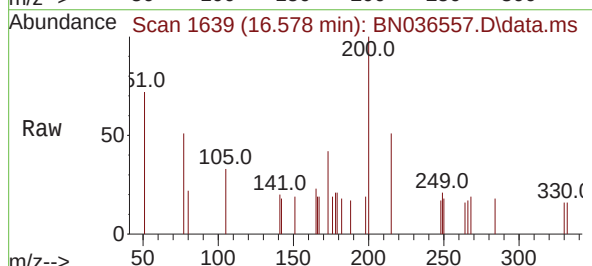
RT: 16.578 min Scan# 1639

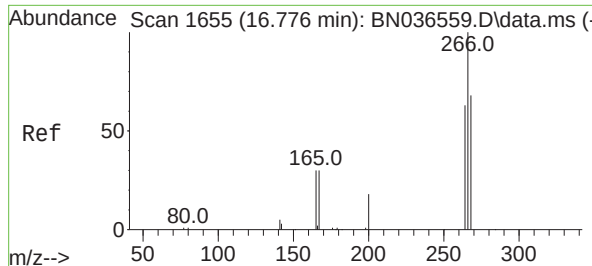
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion	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 :

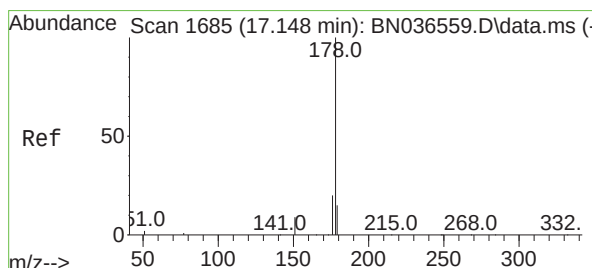
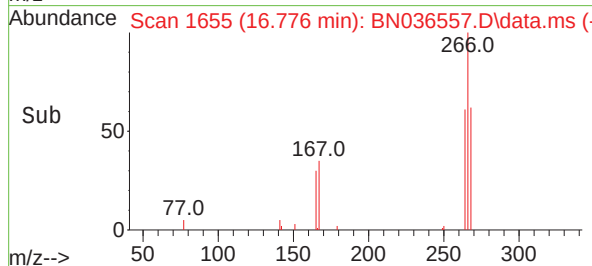
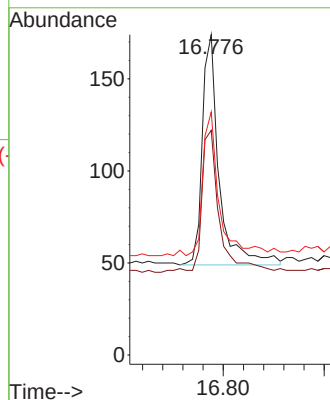
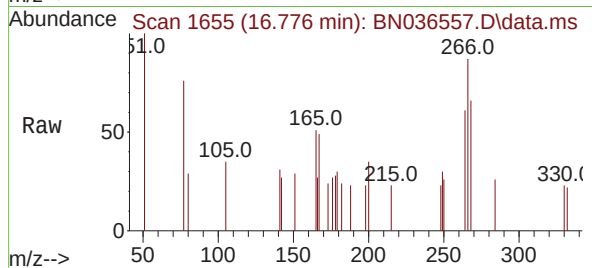
SSTDICC0.1

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

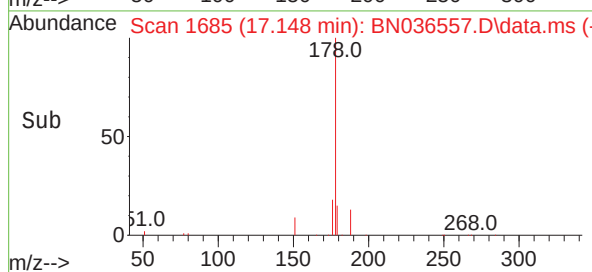
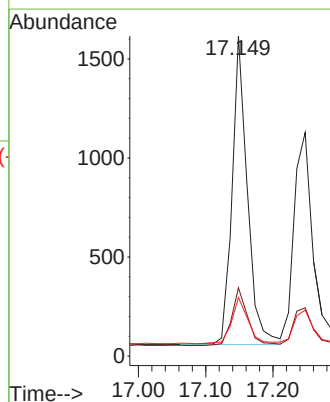
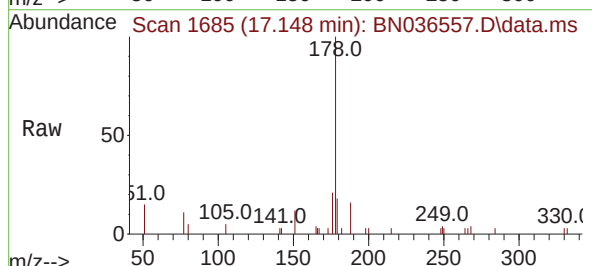
RT: 17.148 min Scan# 1685

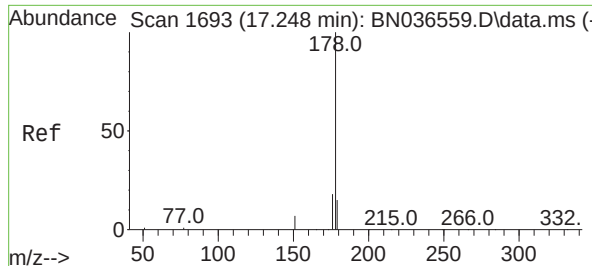
Delta R.T. 0.000 min

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

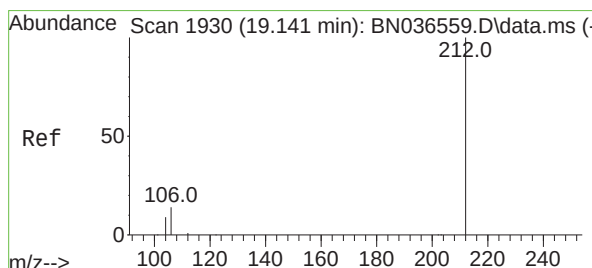
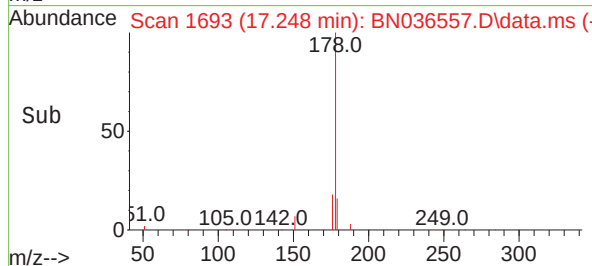
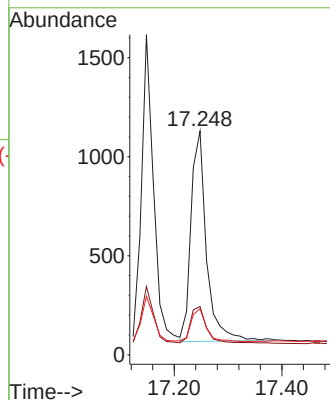
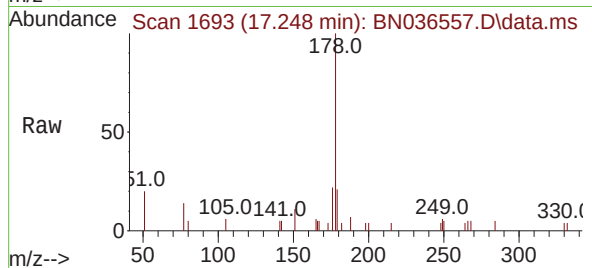
ClientSampleId :

SSTDIC0.1

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

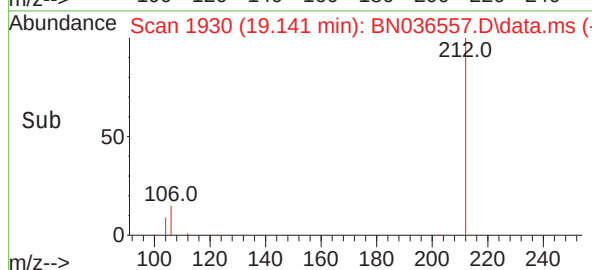
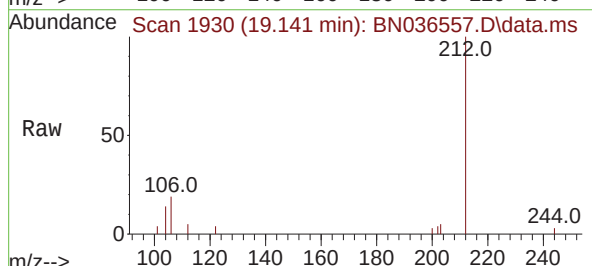
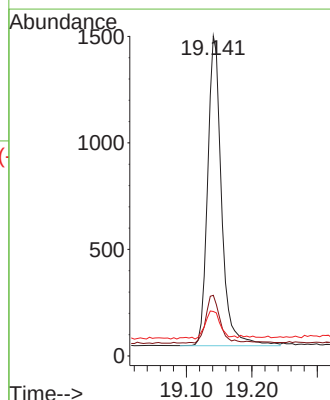
RT: 19.141 min Scan# 1930

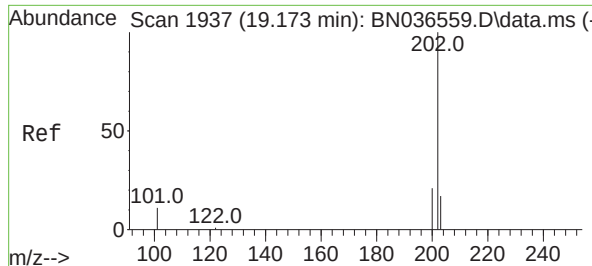
Delta R.T. 0.000 min

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 :

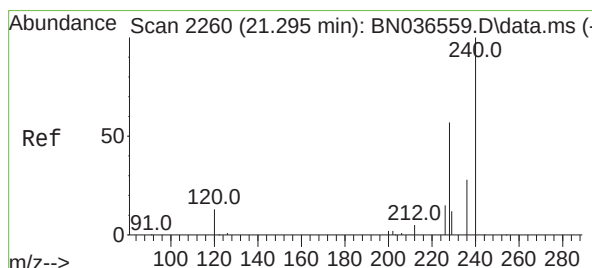
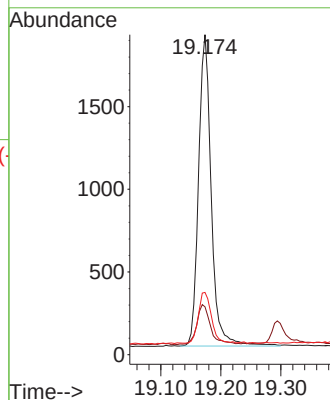
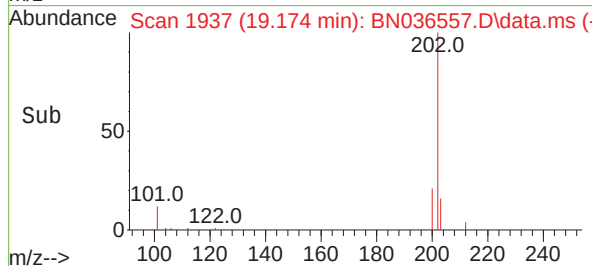
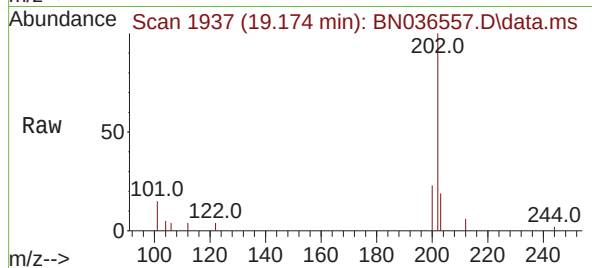
SSTDICC0.1

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

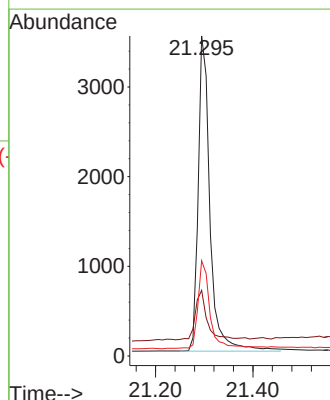
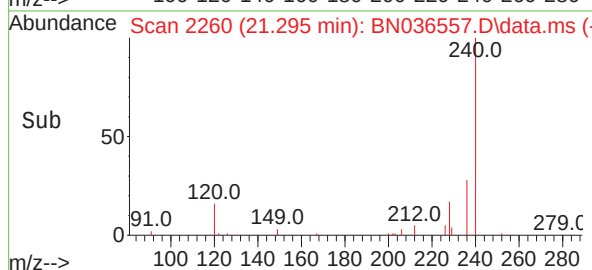
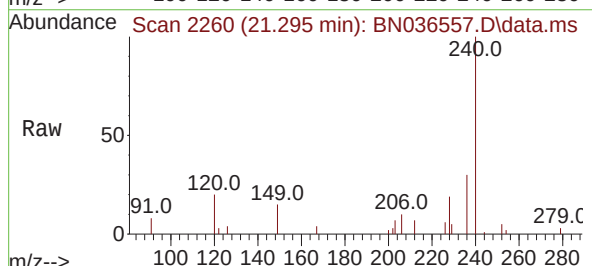
RT: 21.295 min Scan# 2260

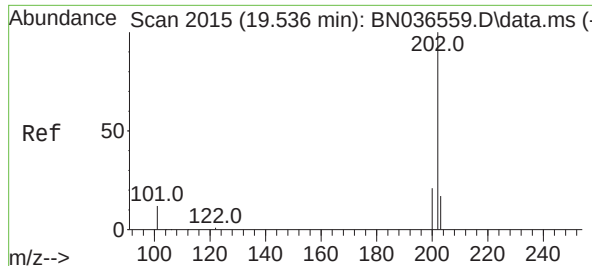
Delta R.T. 0.000 min

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 :

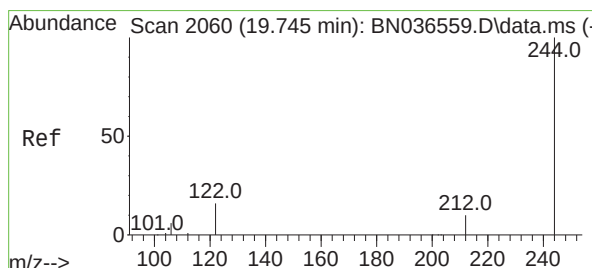
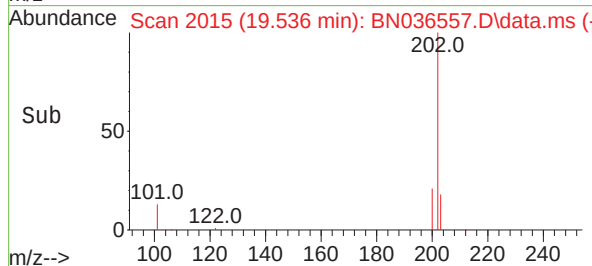
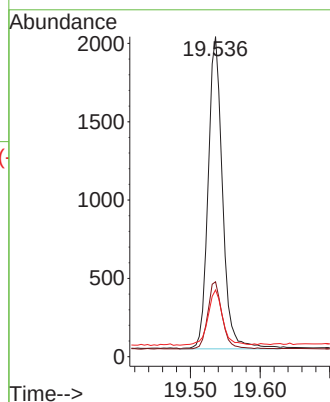
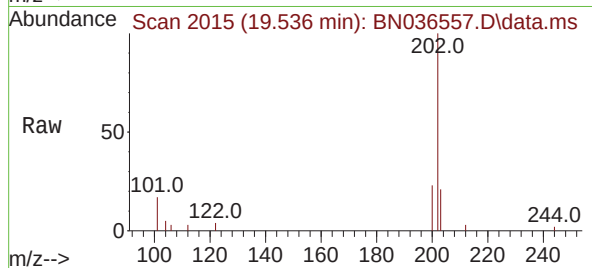
SSTDICC0.1

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

APPROVED

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



#31

Terphenyl-d14

Concen: 0.100 ng

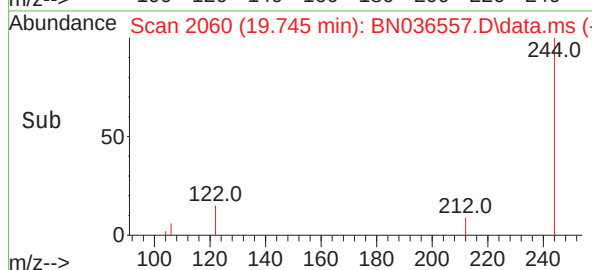
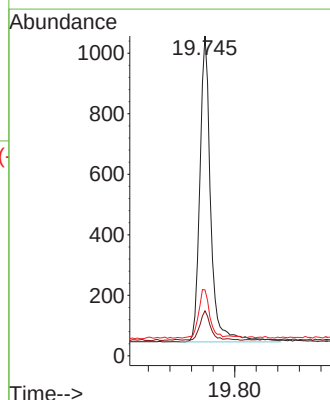
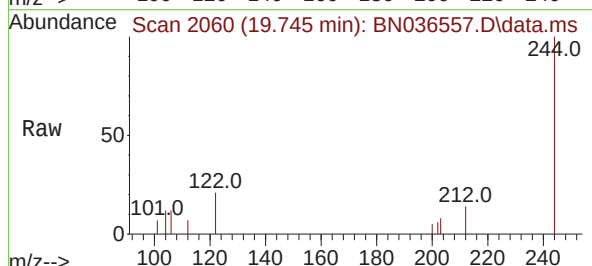
RT: 19.745 min Scan# 2060

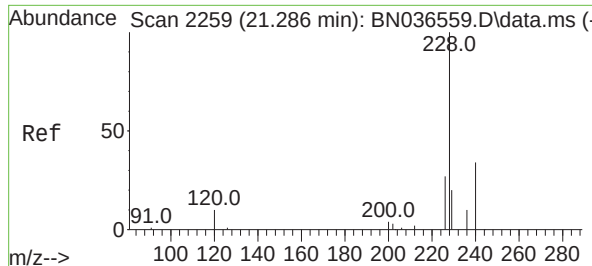
Delta R.T. 0.000 min

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

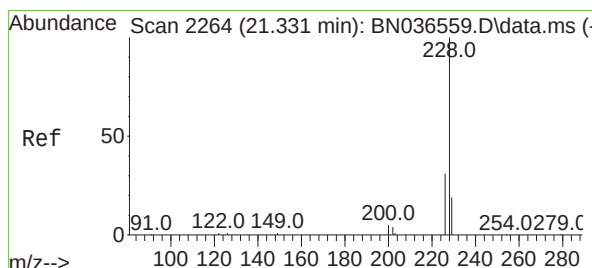
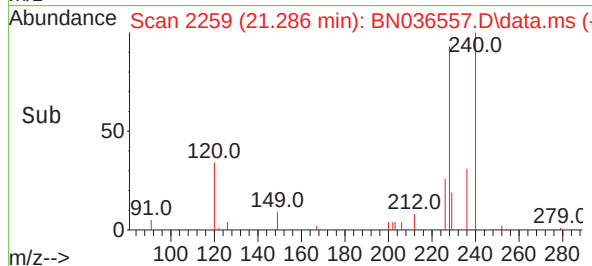
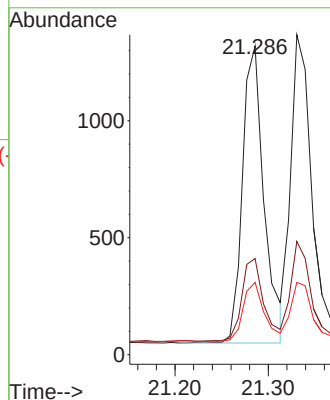
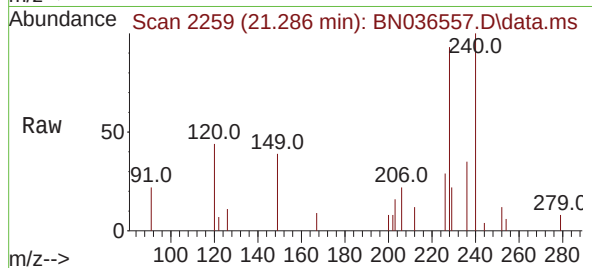
ClientSampleId :

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

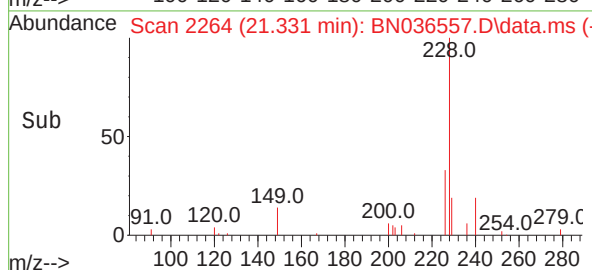
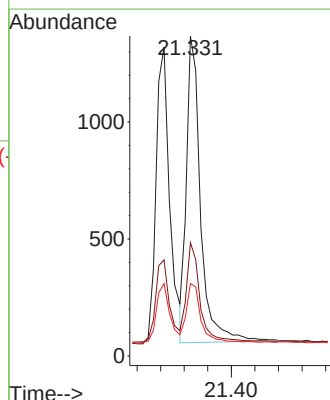
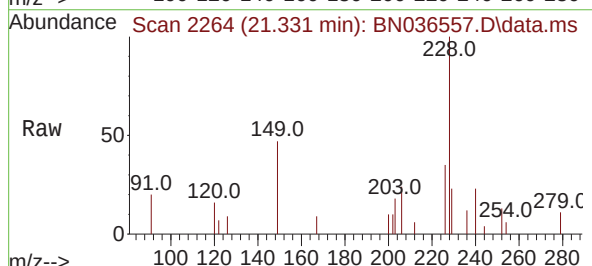
RT: 21.331 min Scan# 2264

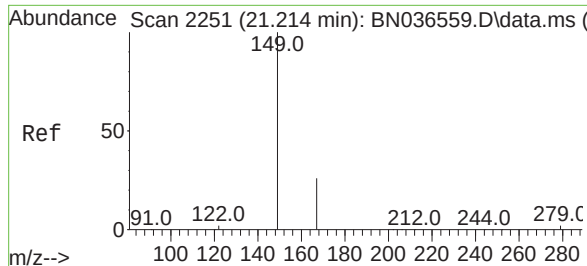
Delta R.T. 0.000 min

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

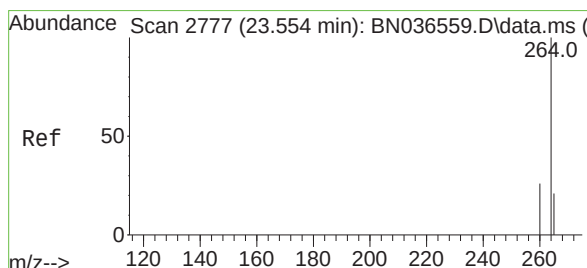
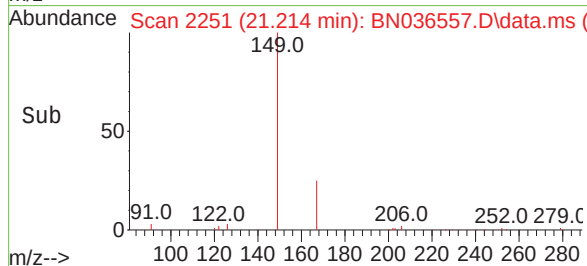
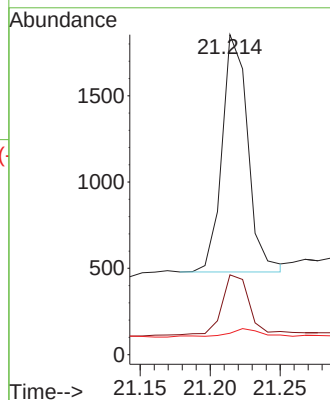
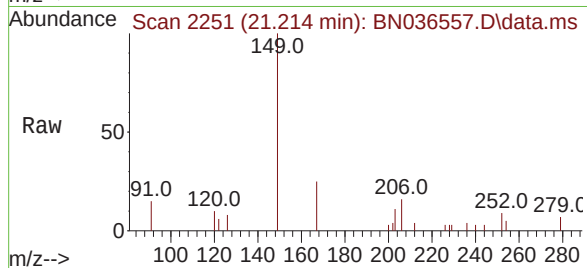
ClientSampleId :

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

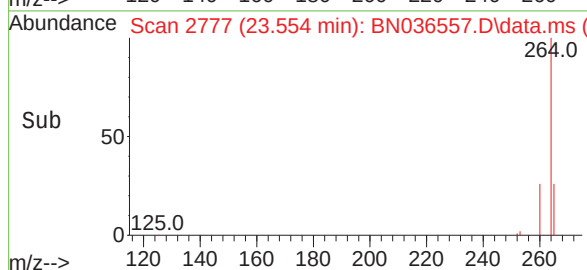
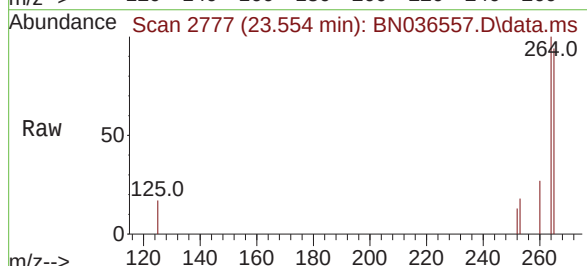
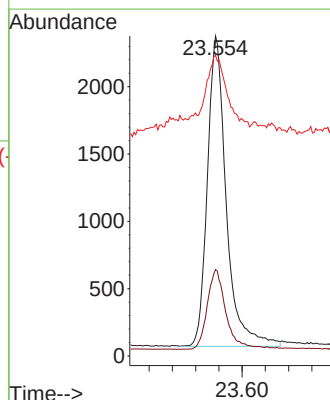
RT: 23.554 min Scan# 2777

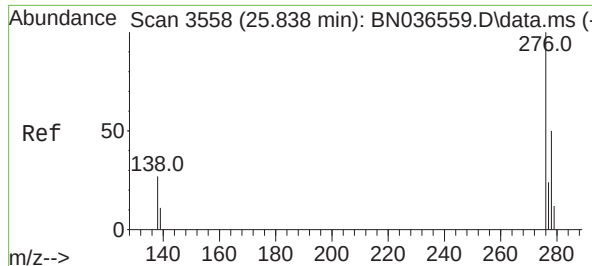
Delta R.T. 0.000 min

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

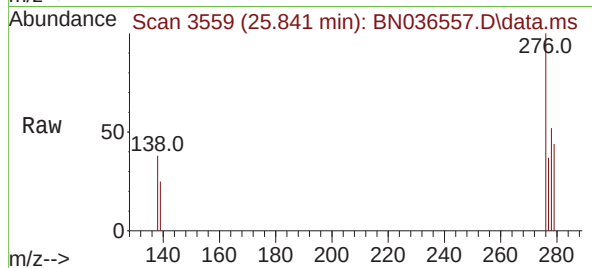
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 1510

Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

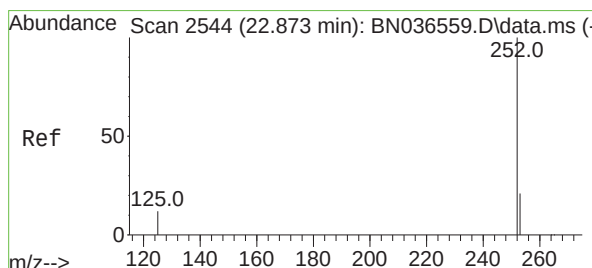
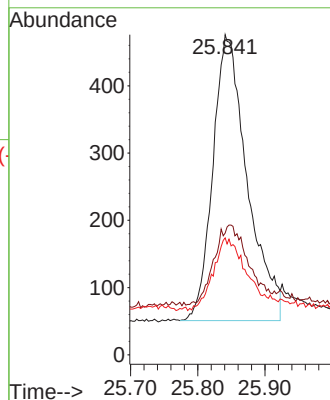
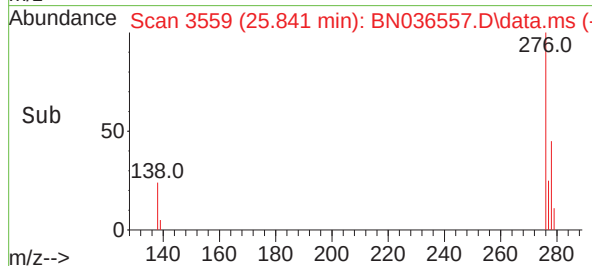
277 24.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#37

Benzo(b)fluoranthene

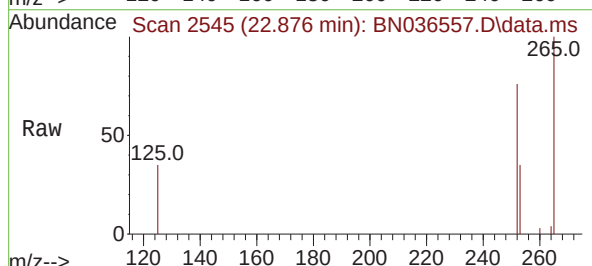
Concen: 0.090 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



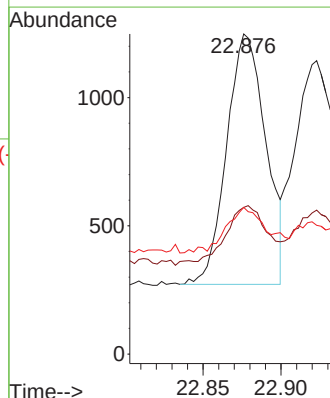
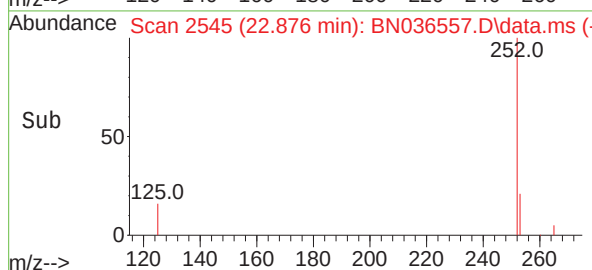
Tgt Ion:252 Resp: 1707

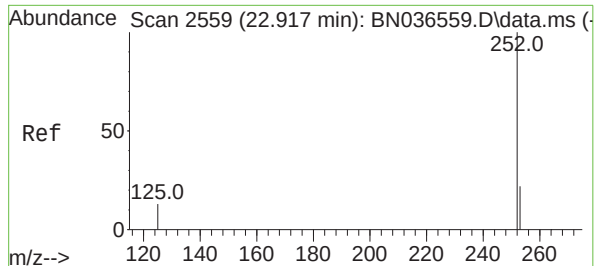
Ion Ratio Lower Upper

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

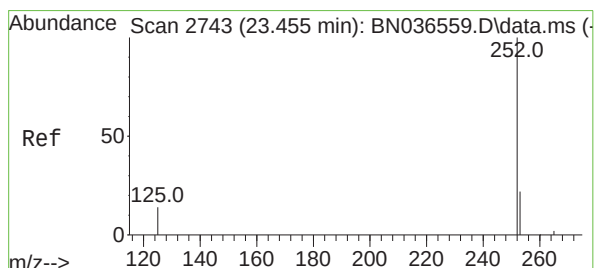
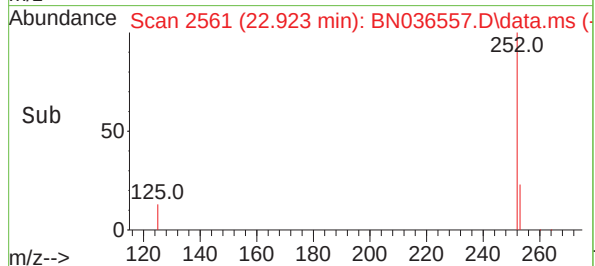
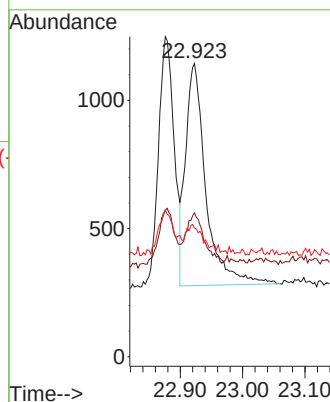
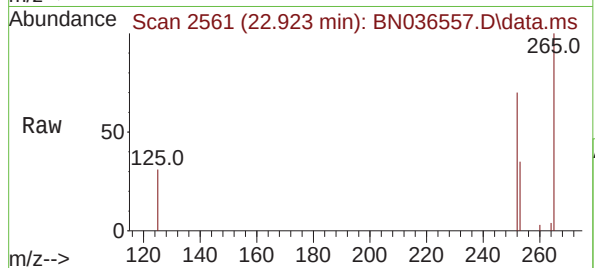
Tgt Ion:	252	Resp:	195
Ion Ratio	Lower	Upper	
252	100		
253	49.0	24.6	36.8
125	43.9	17.8	26.8

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

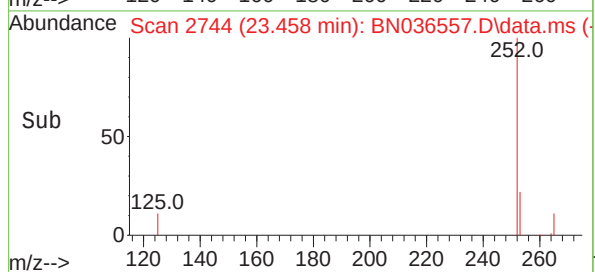
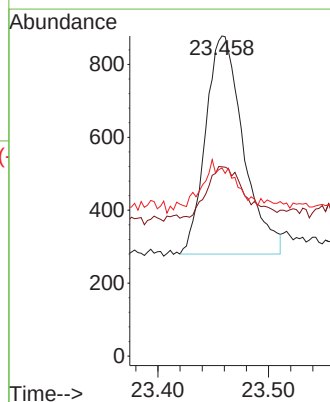
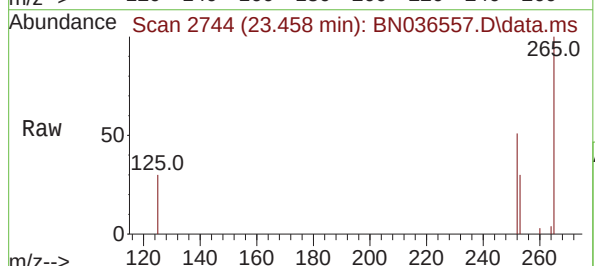
RT: 23.458 min Scan# 2744

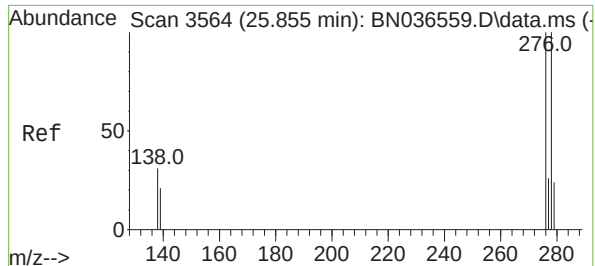
Delta R.T. 0.003 min

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# 3564

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:278 Resp: 1163

Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

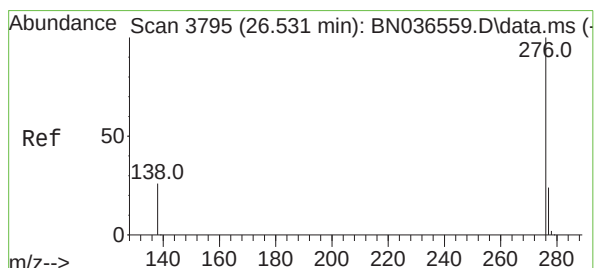
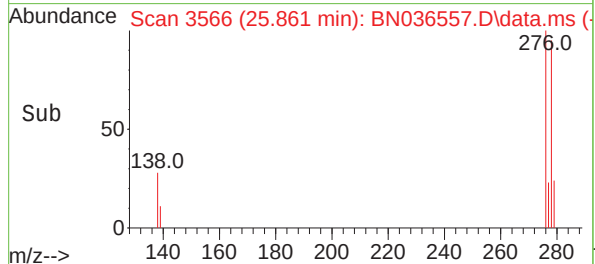
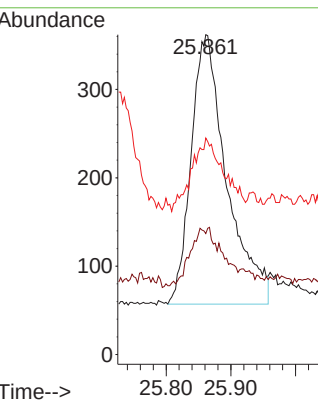
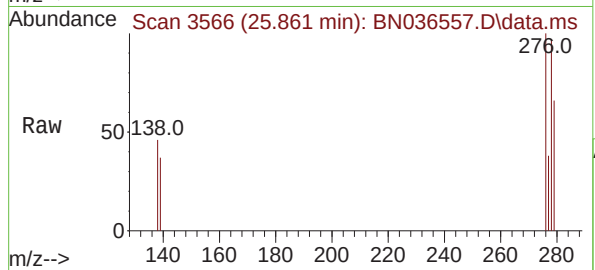
279 67.7 28.8 43.2#

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

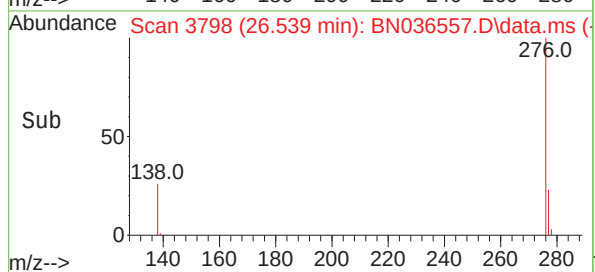
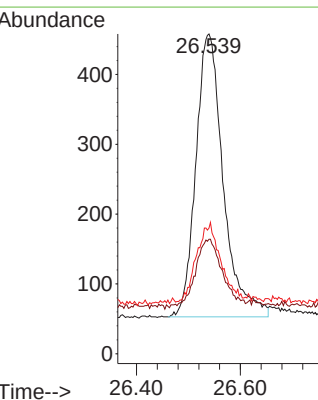
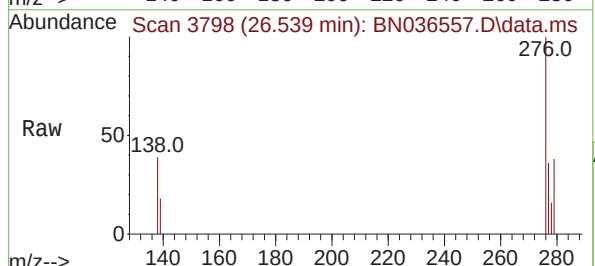
Tgt Ion:276 Resp: 1482

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						
						Qvalue
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

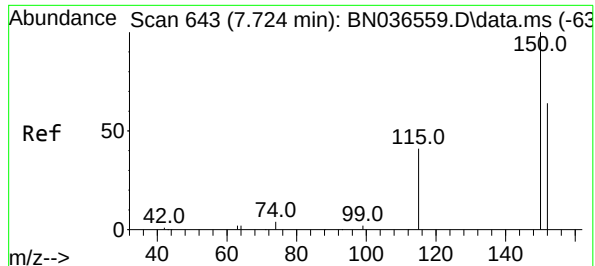
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

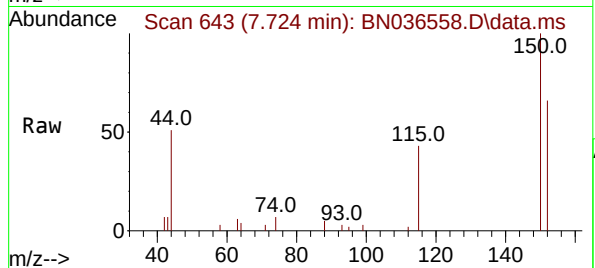
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jaqrut Upadhyay 03/11/2025





#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

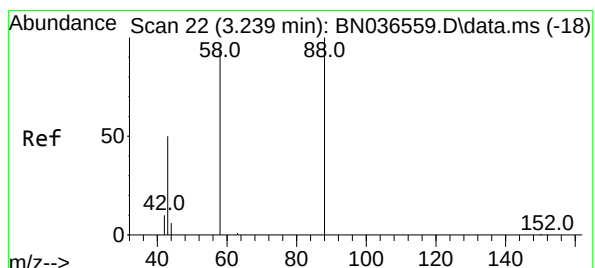
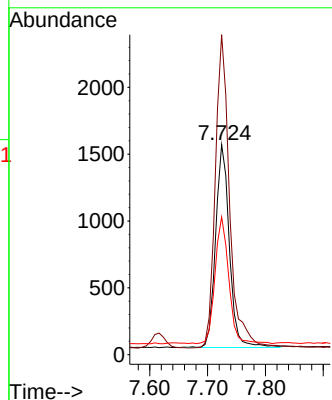
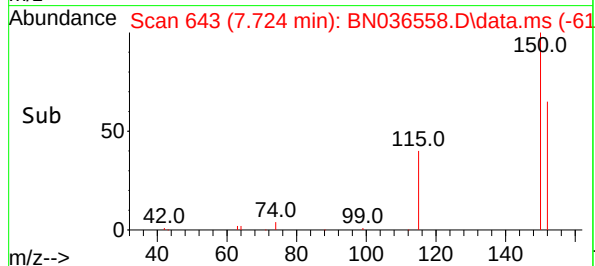
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

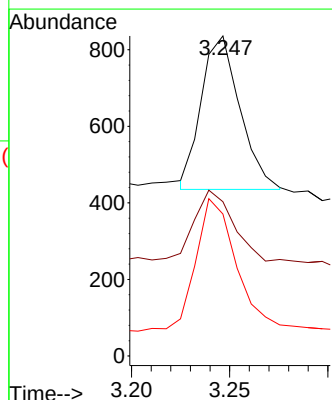
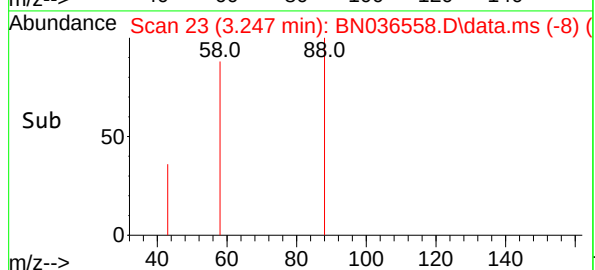
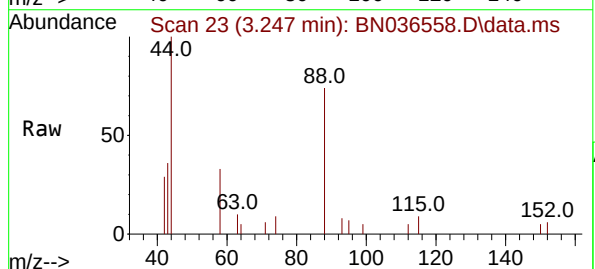
Manual Integrations
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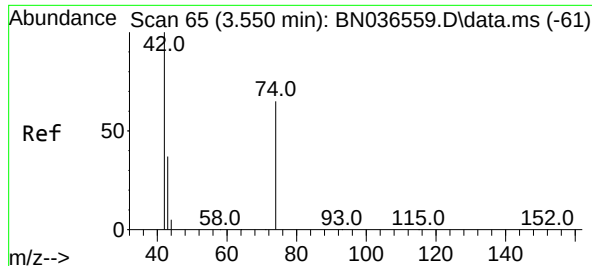
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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





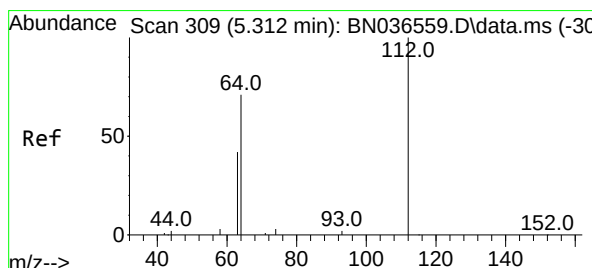
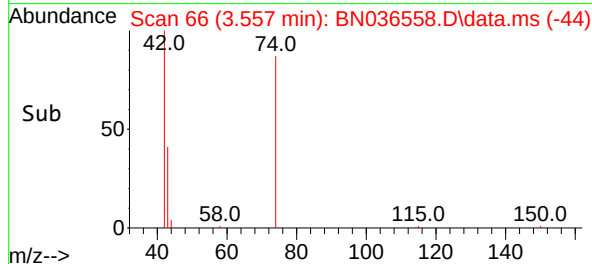
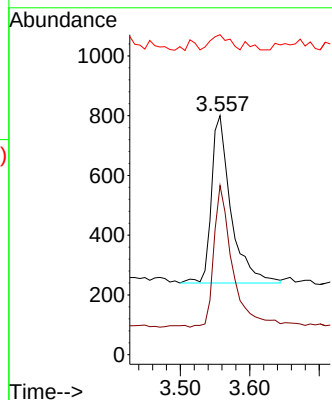
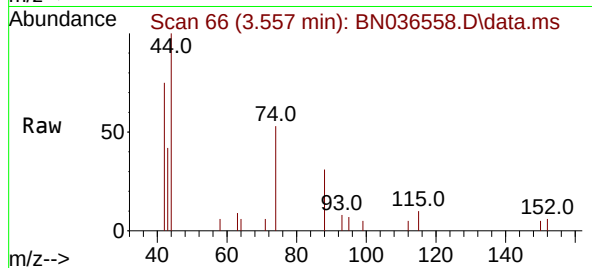
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

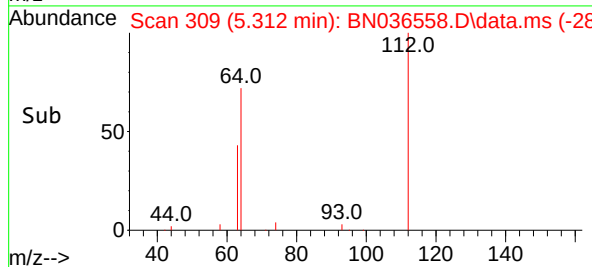
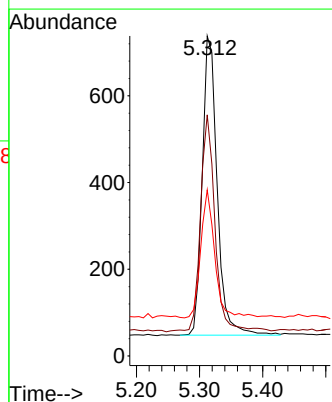
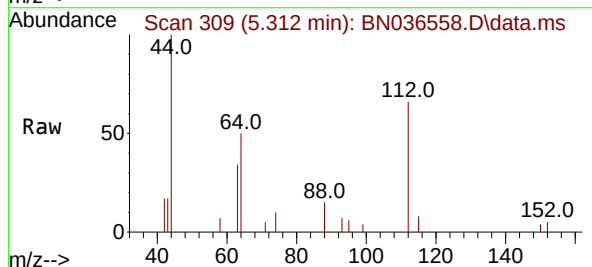
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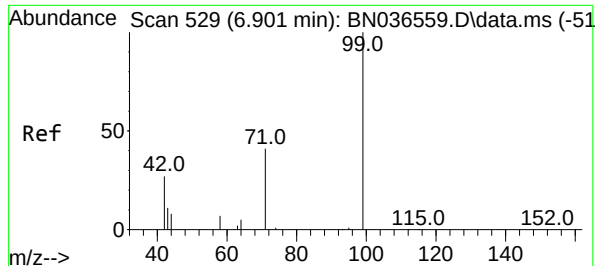
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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





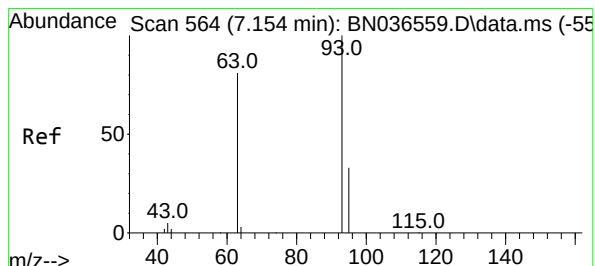
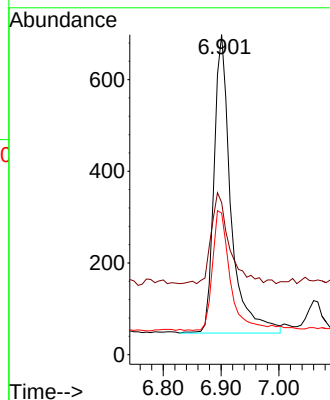
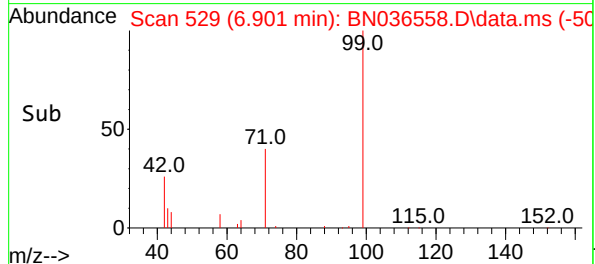
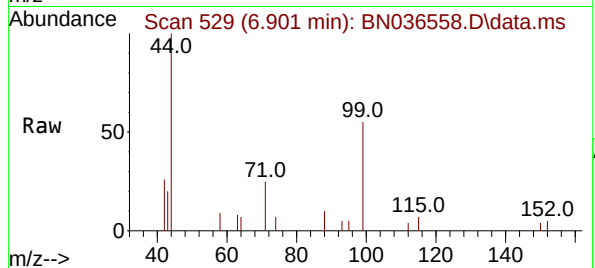
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

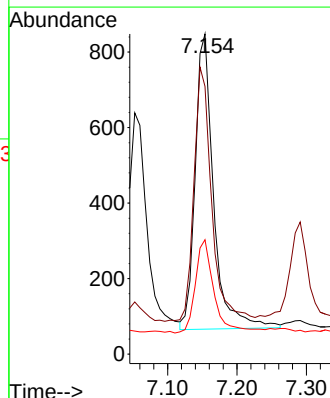
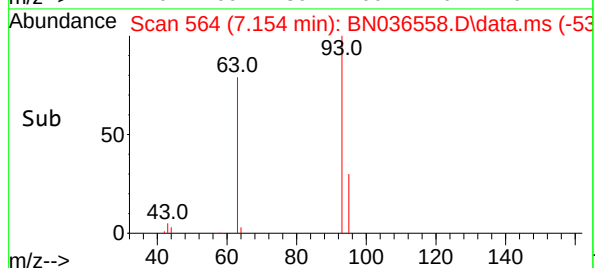
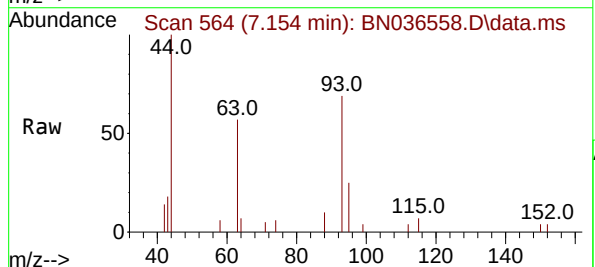
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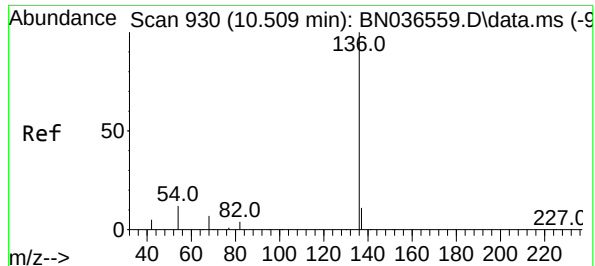
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

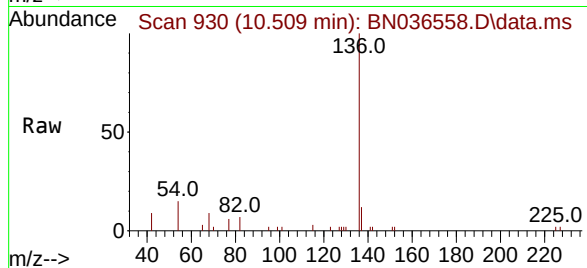
Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#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

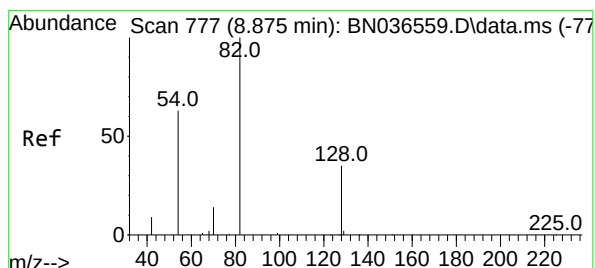
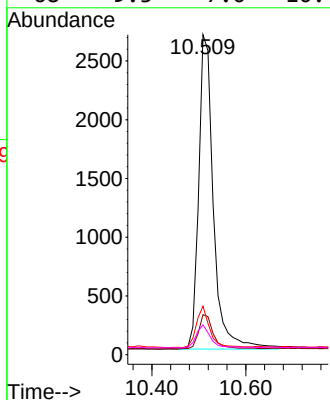
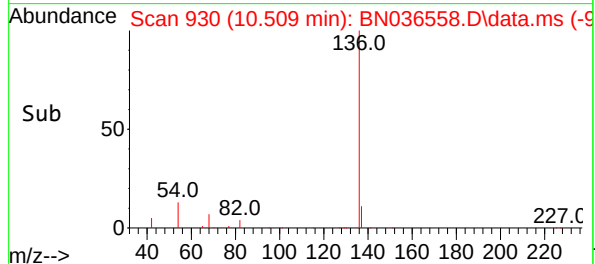
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

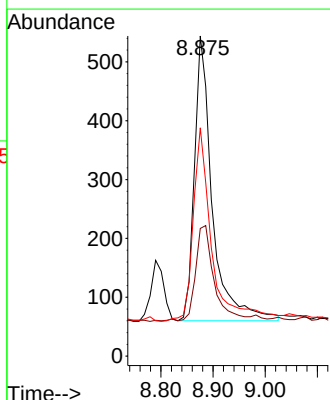
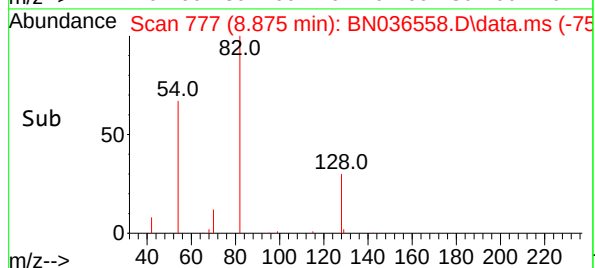
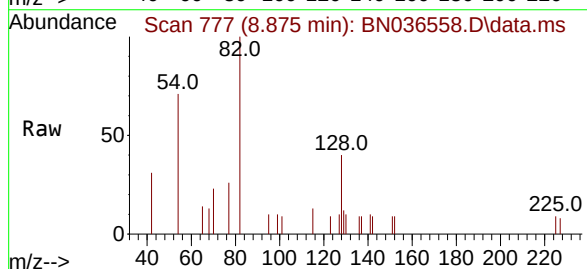
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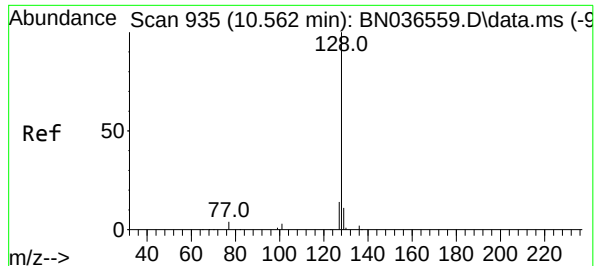
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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





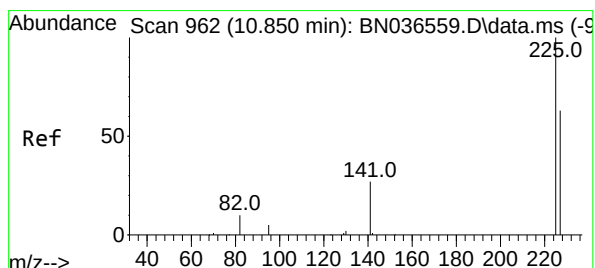
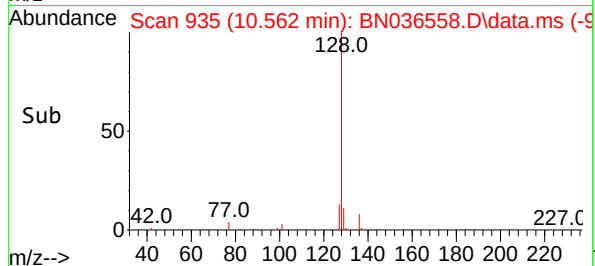
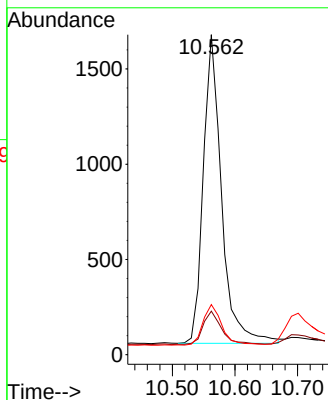
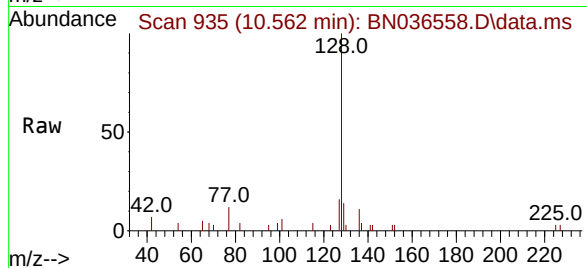
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

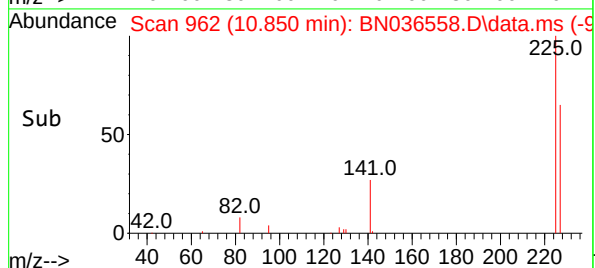
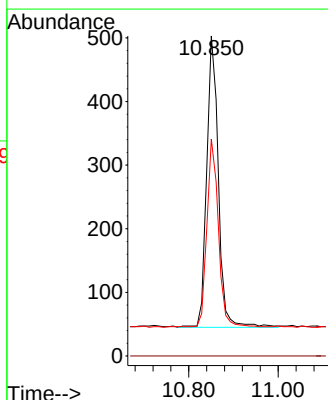
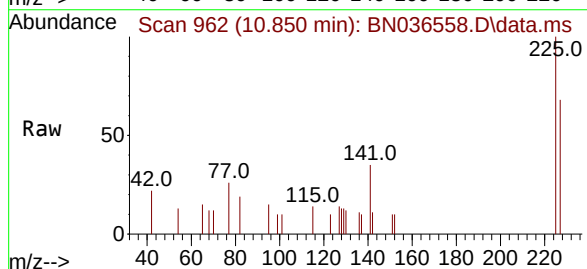
Manual Integrations
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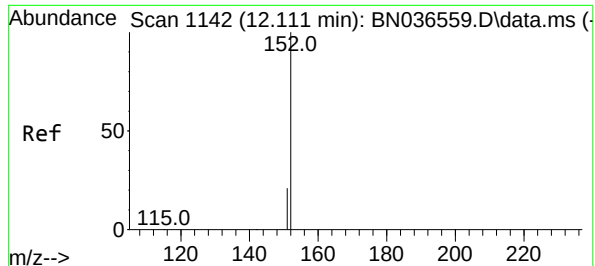
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

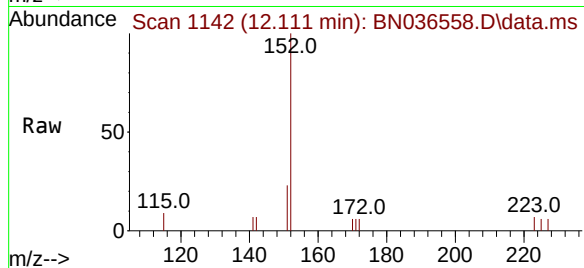
Tgt Ion:225 Resp: 828
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 51.8 77.8





#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

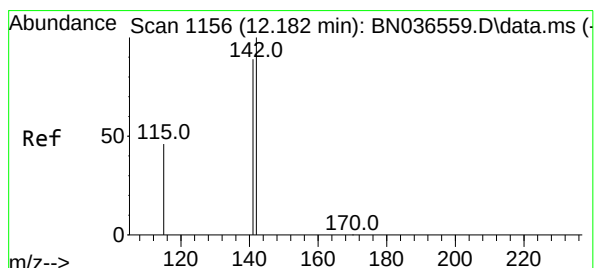
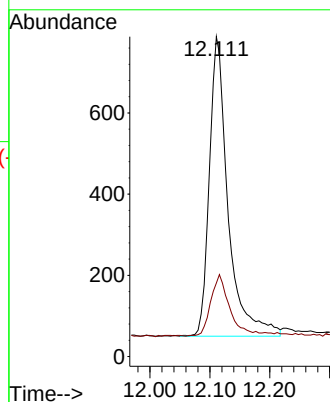
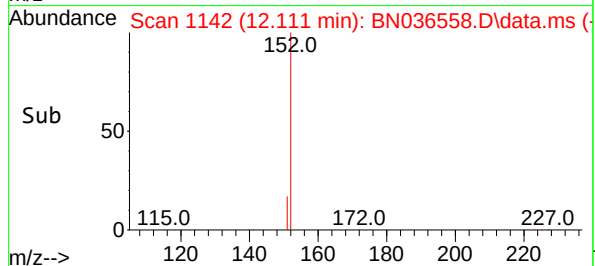
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

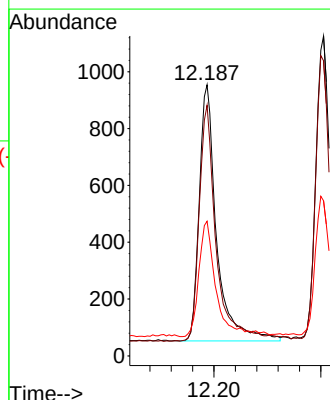
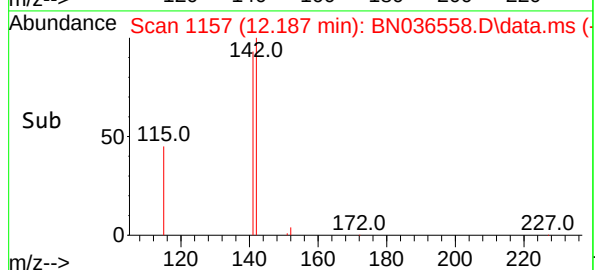
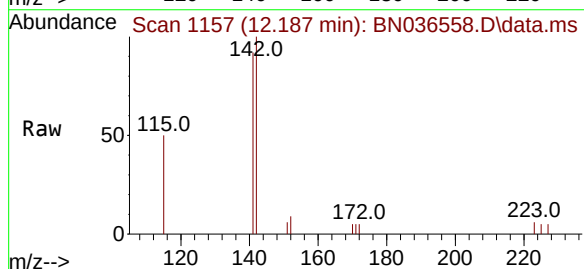
Manual Integrations
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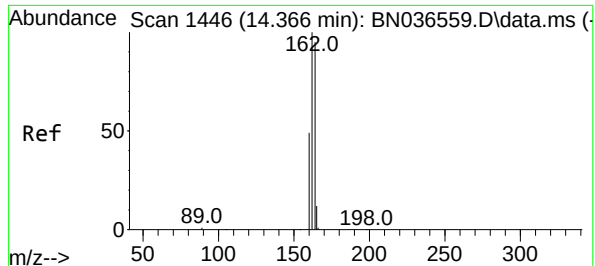
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

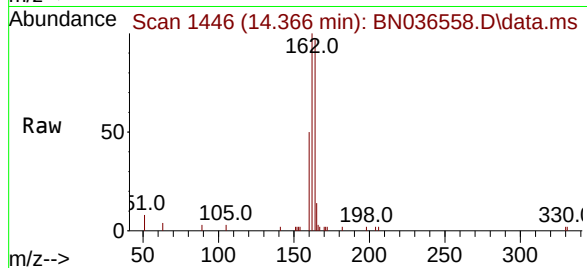
Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#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

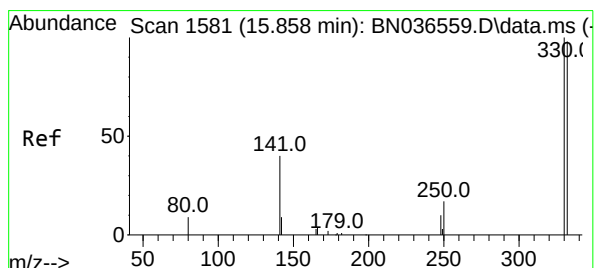
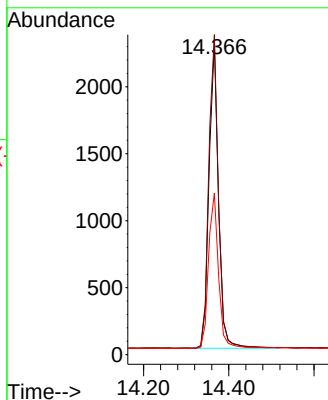
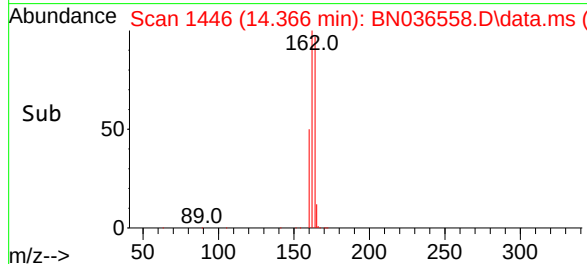
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



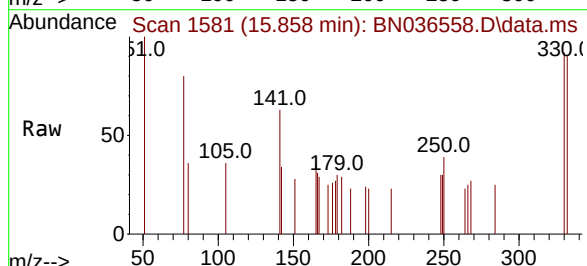
Tgt Ion:164 Resp: 3510
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

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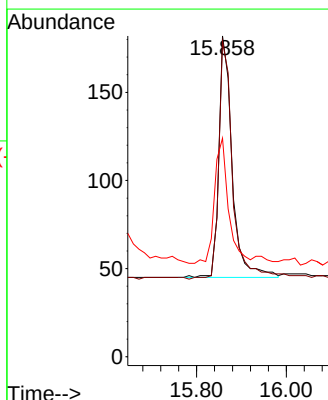
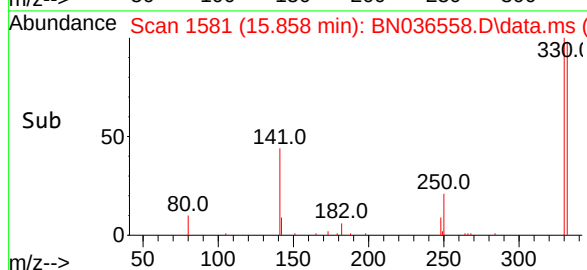
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

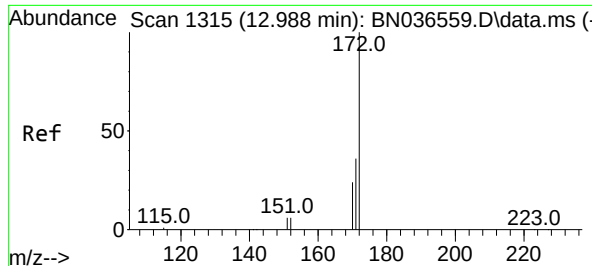


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



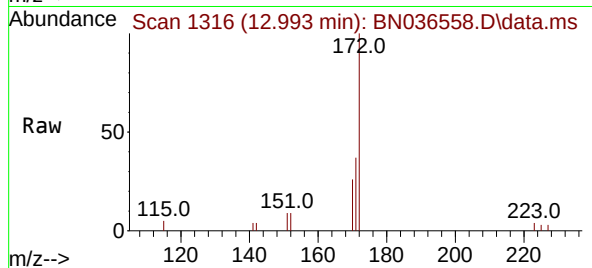
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#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

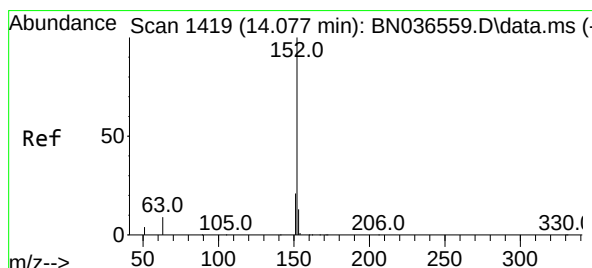
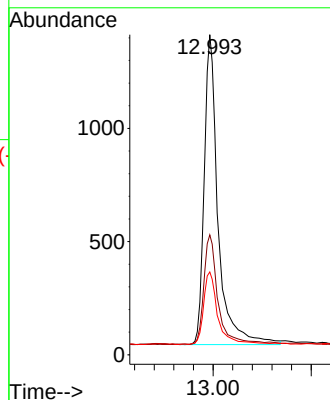
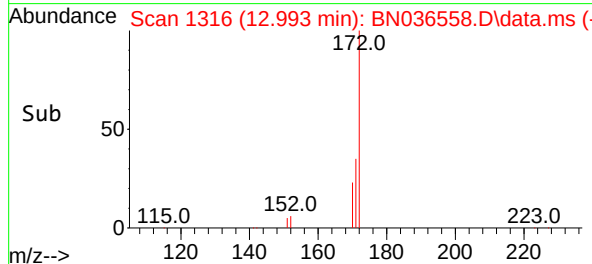
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

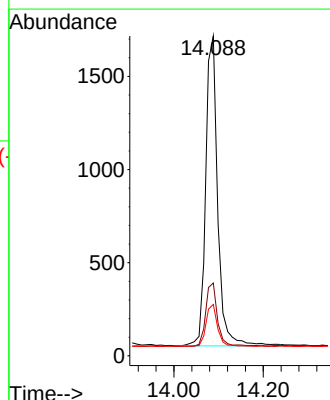
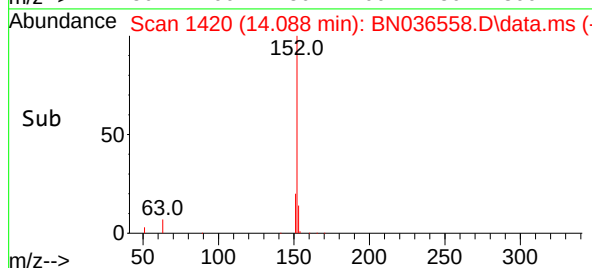
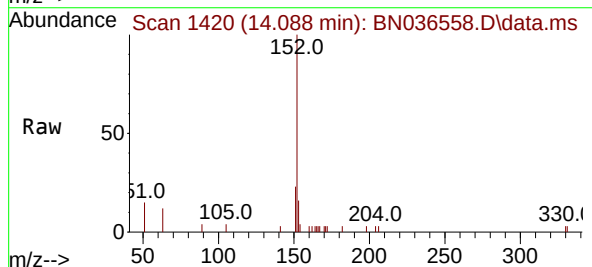
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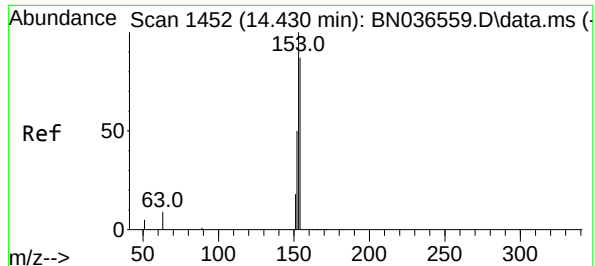
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

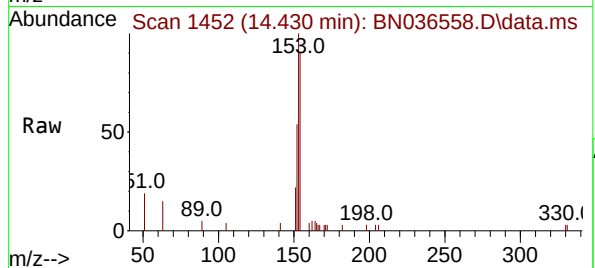
Tgt Ion:152 Resp: 3087
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 13.0 10.6 15.8





#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

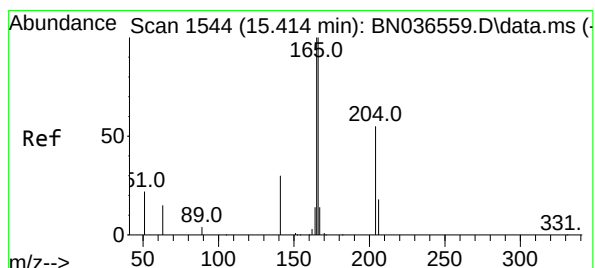
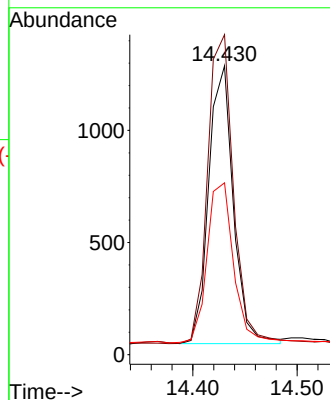
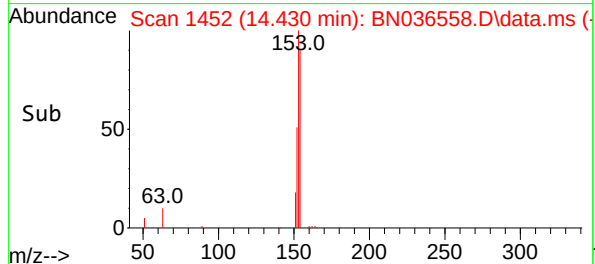
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

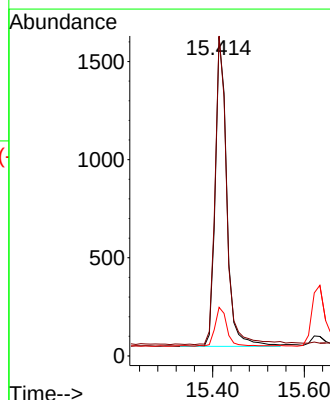
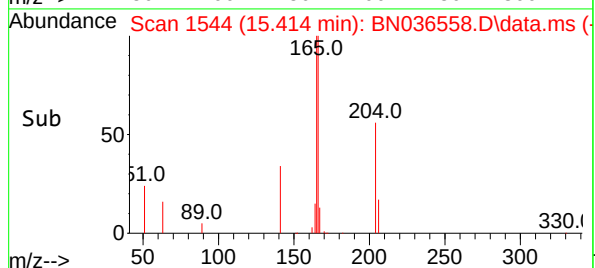
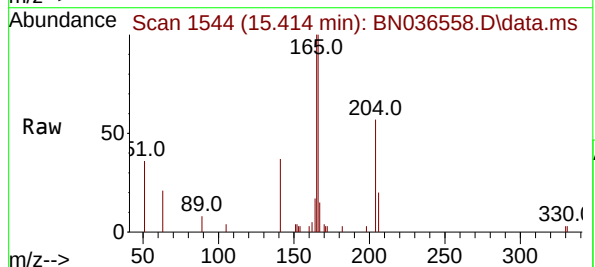
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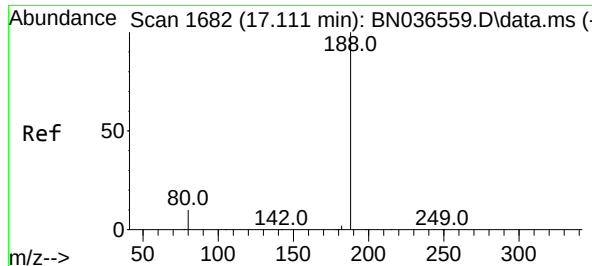
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

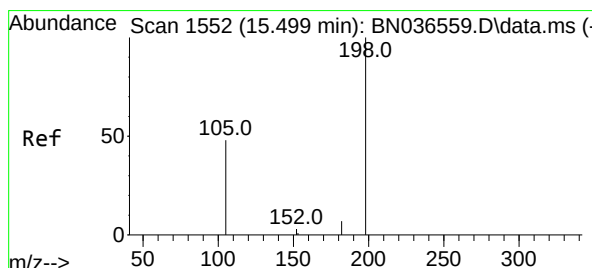
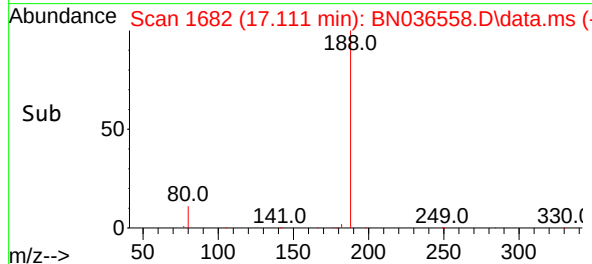
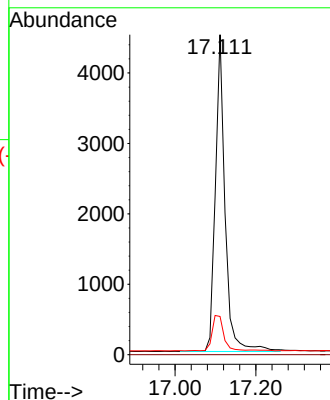
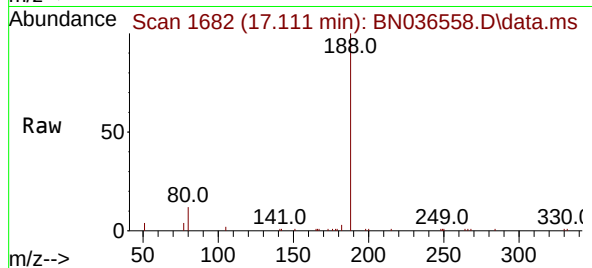
Instrument :

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

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Supervised By :Jagrut Upadhyay 03/11/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.258 ng

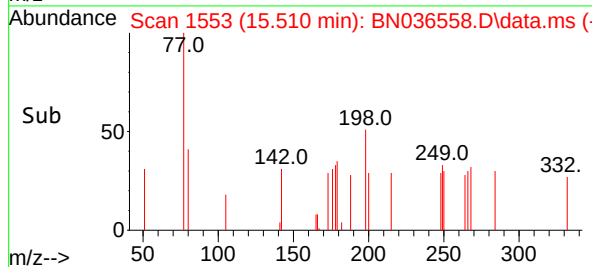
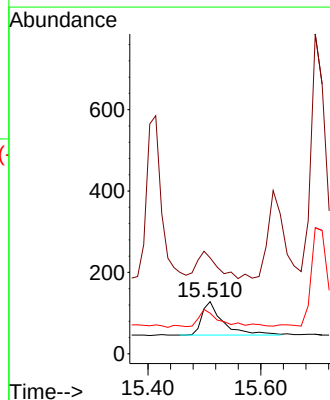
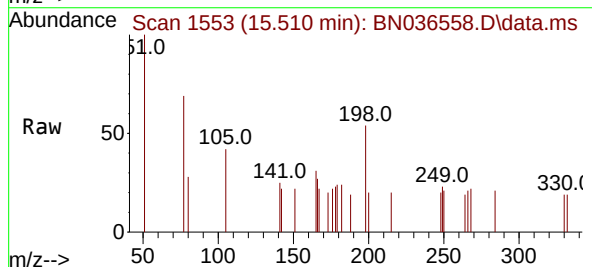
RT: 15.510 min Scan# 1553

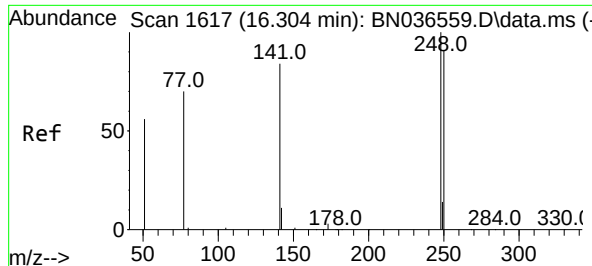
Delta R.T. 0.011 min

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





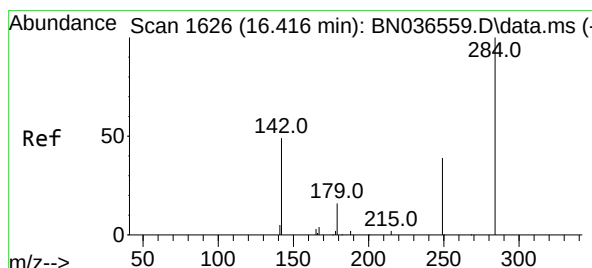
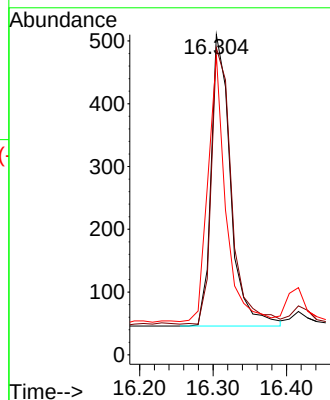
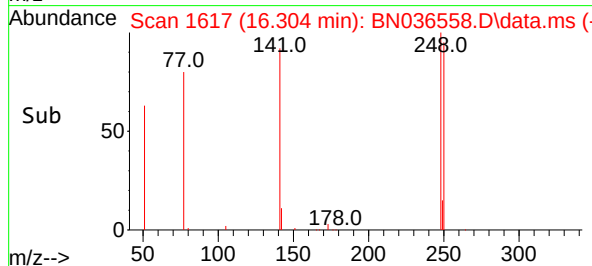
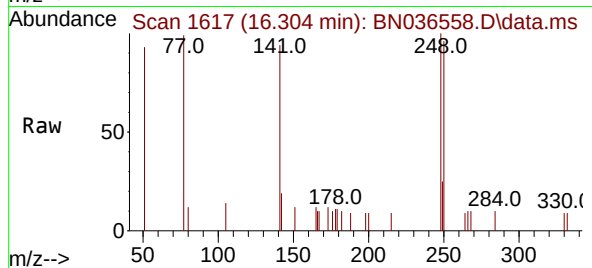
#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

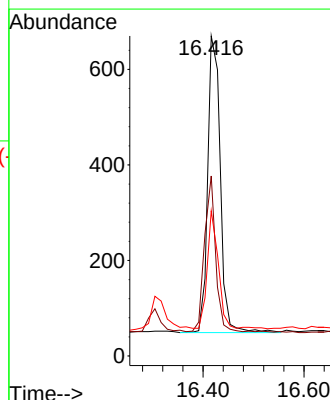
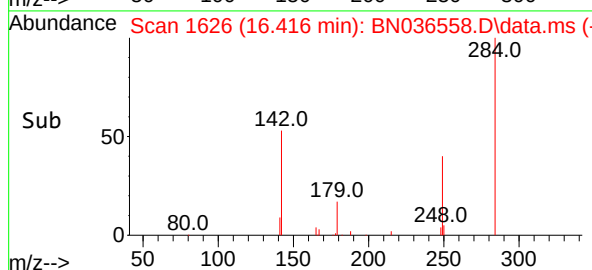
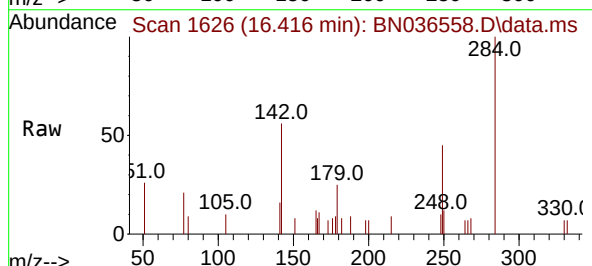
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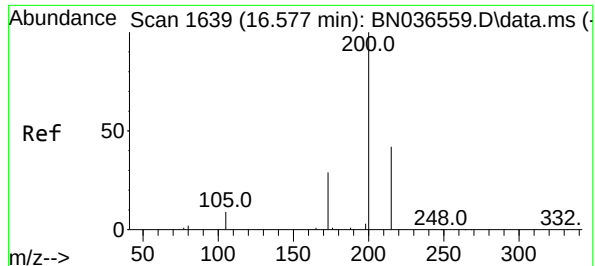
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

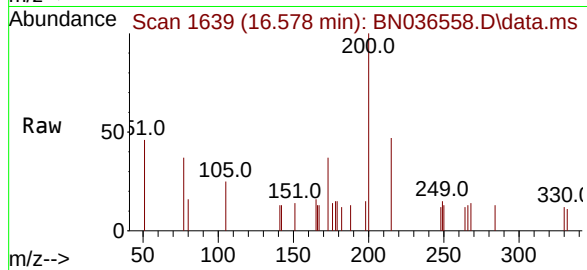
Tgt Ion:284 Resp: 1079
Ion Ratio Lower Upper
284 100
142 47.0 37.0 55.4
249 34.8 28.1 42.1





#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

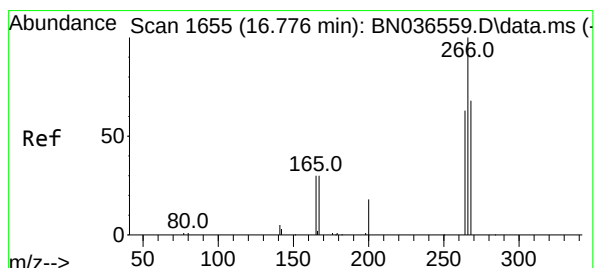
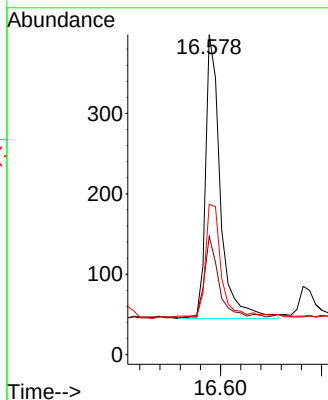
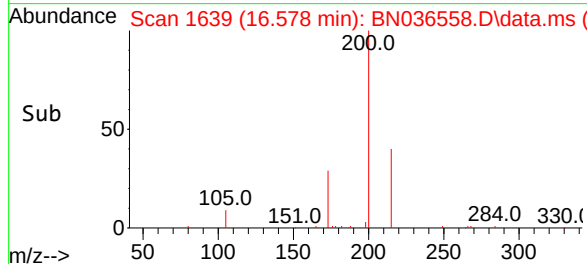
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

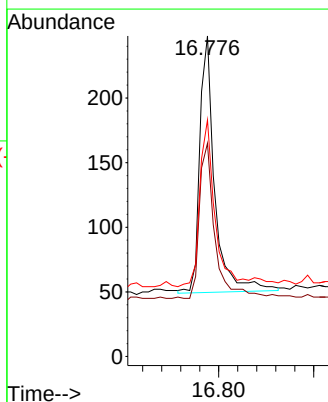
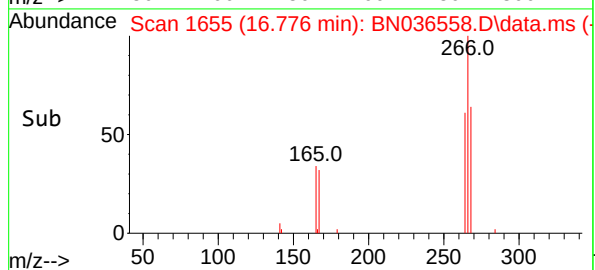
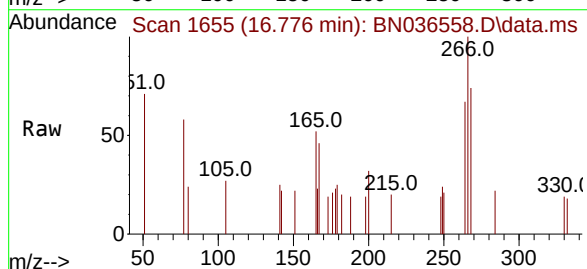
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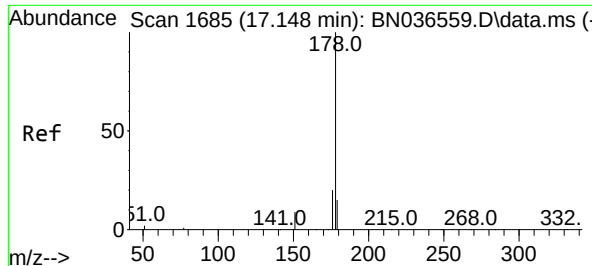
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

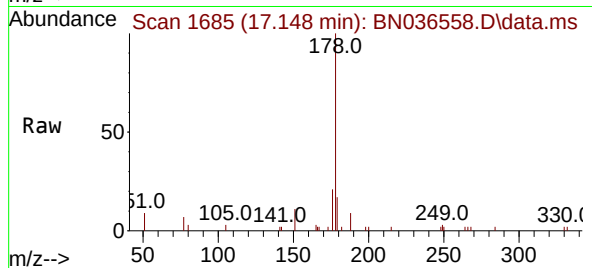
Tgt Ion:266 Resp: 435
Ion Ratio Lower Upper
266 100
264 63.4 49.6 74.4
268 65.7 50.9 76.3





#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

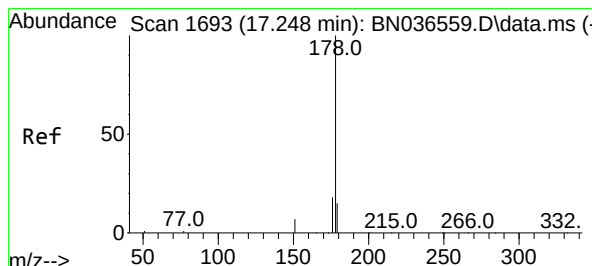
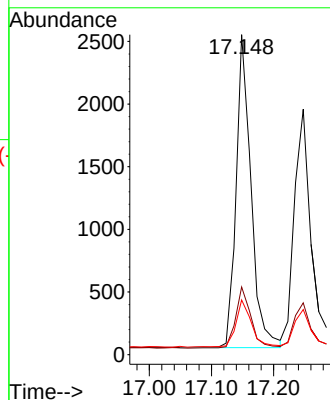
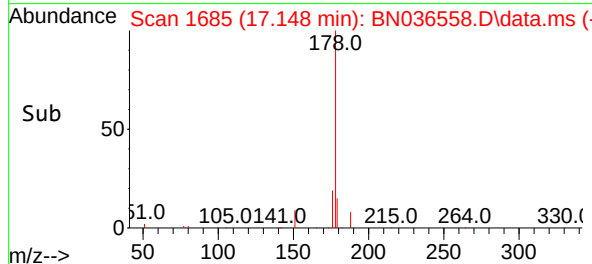
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



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

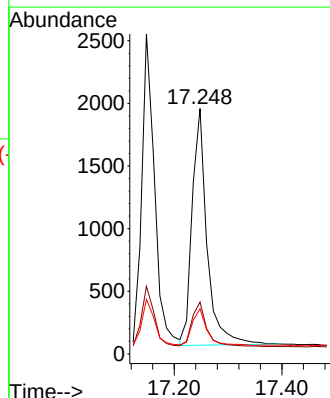
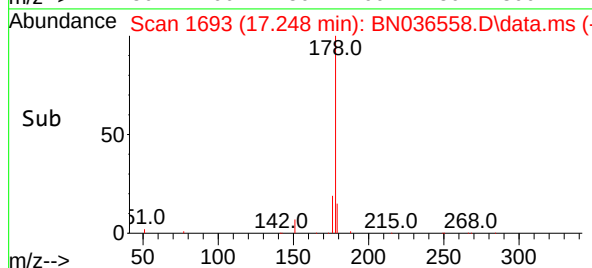
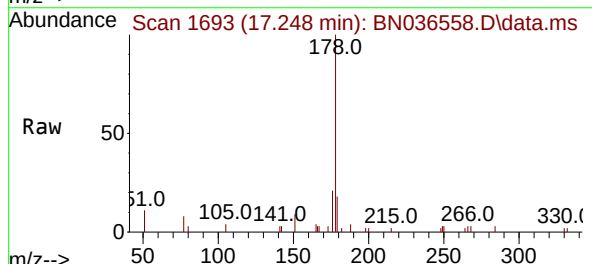
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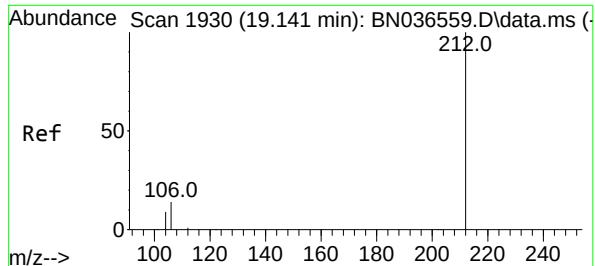
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

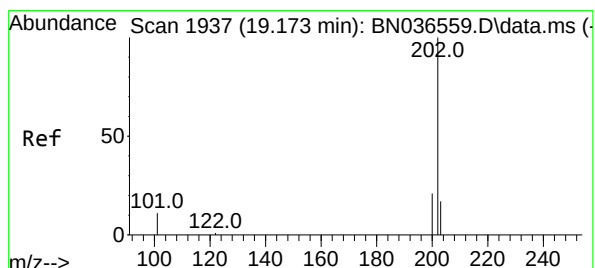
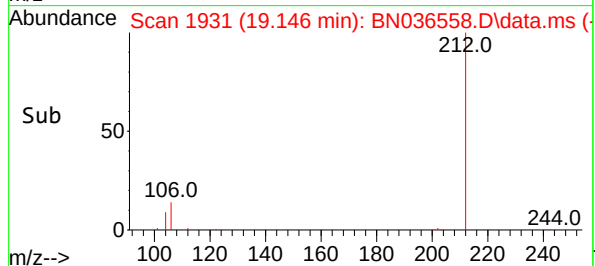
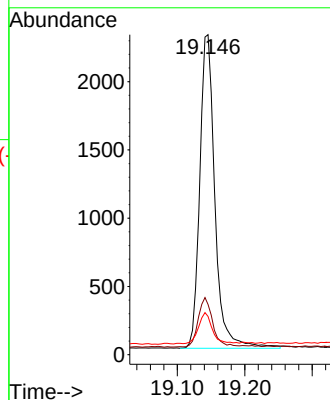
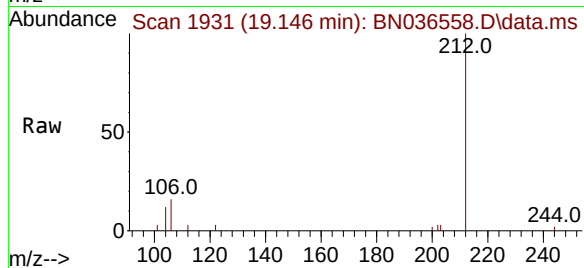
ClientSampleId :

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

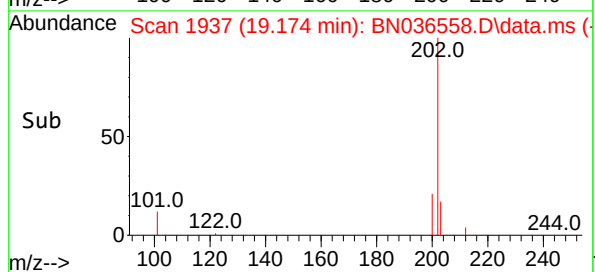
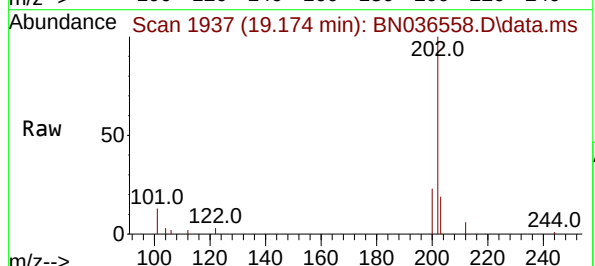
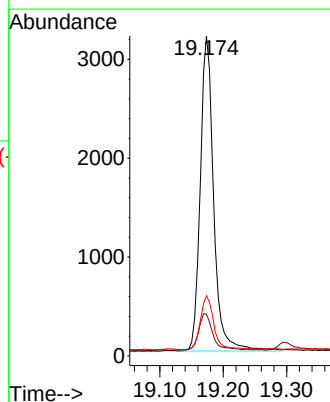
RT: 19.174 min Scan# 1937

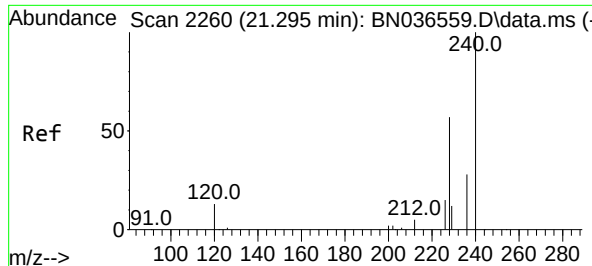
Delta R.T. 0.000 min

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 :

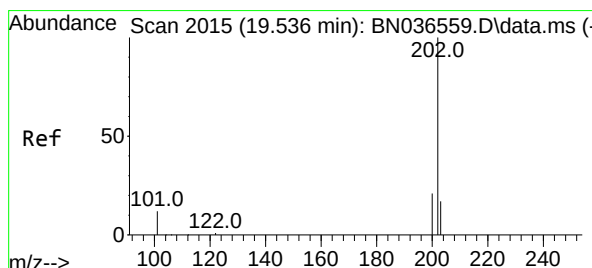
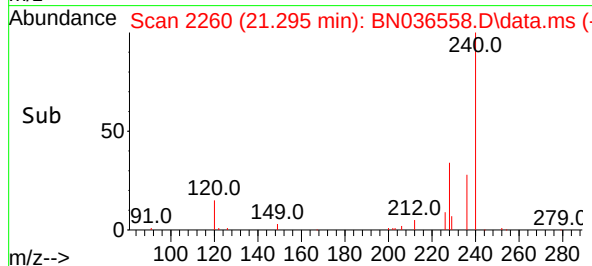
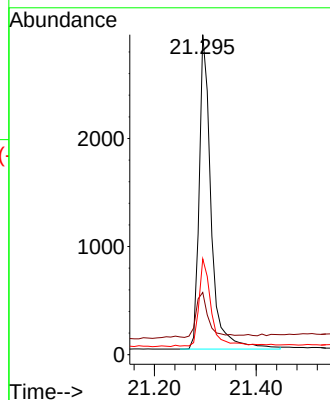
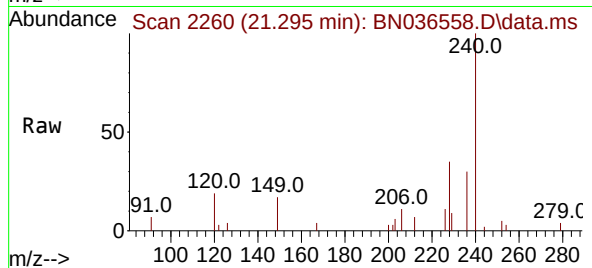
SSTDIC0.2

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

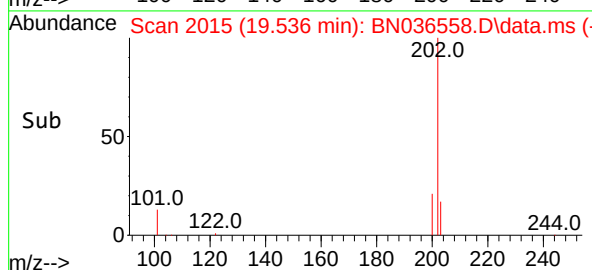
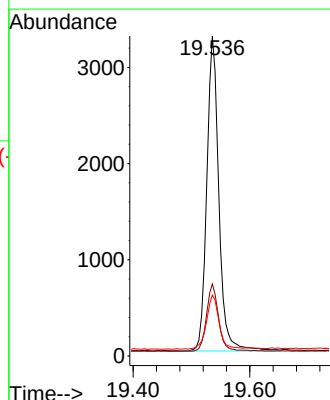
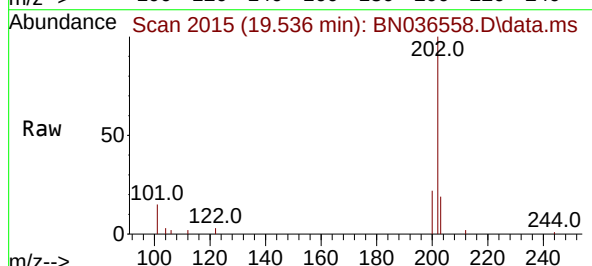
RT: 19.536 min Scan# 2015

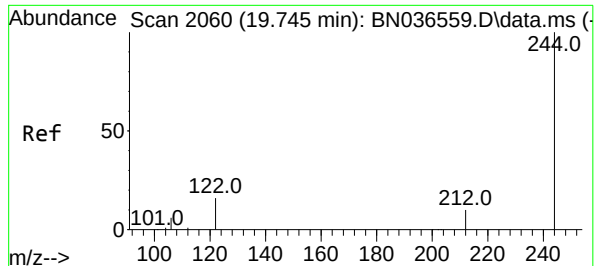
Delta R.T. 0.000 min

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

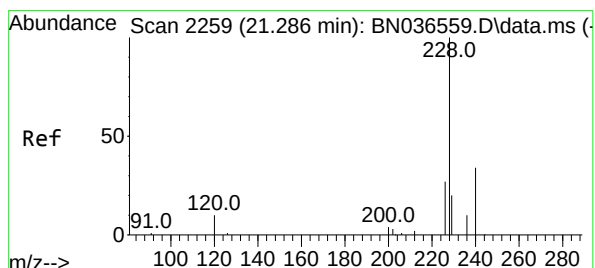
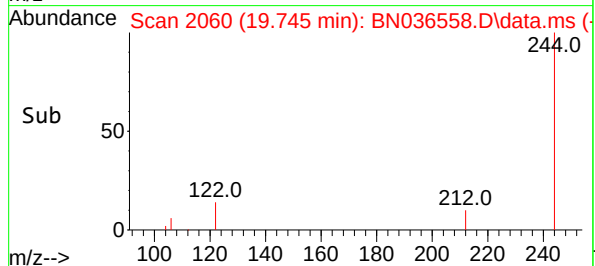
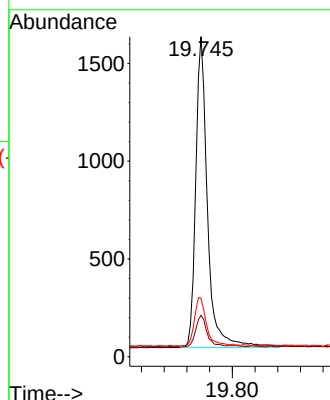
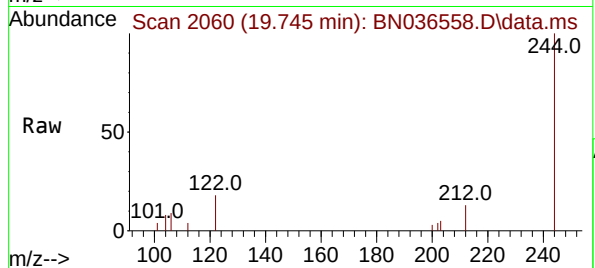
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9

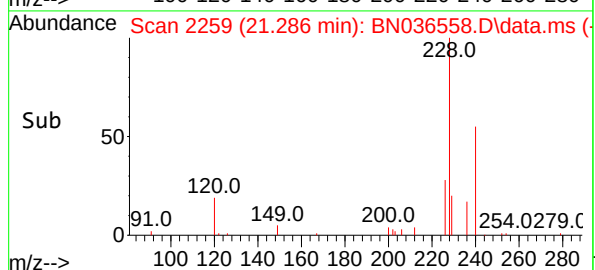
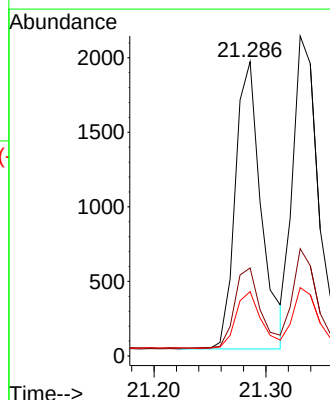
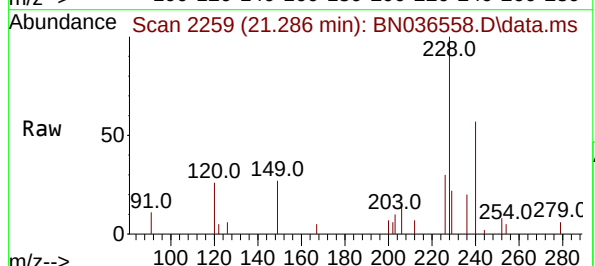
Manual Integrations
APPROVED

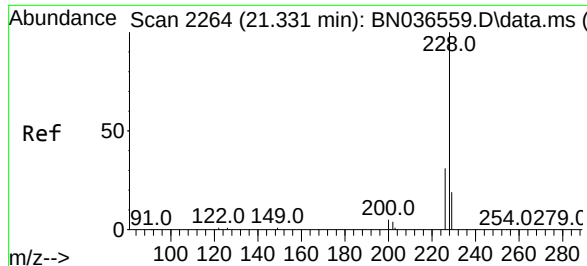
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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	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

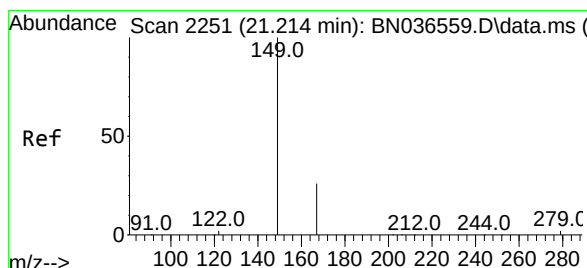
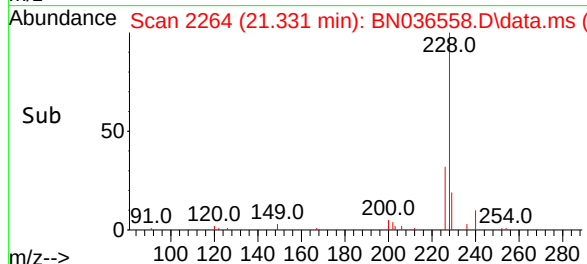
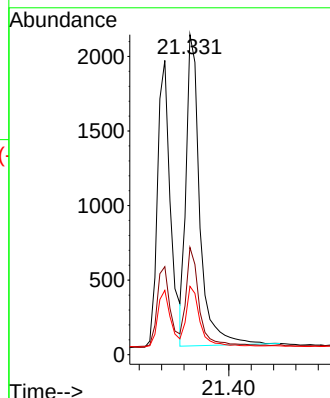
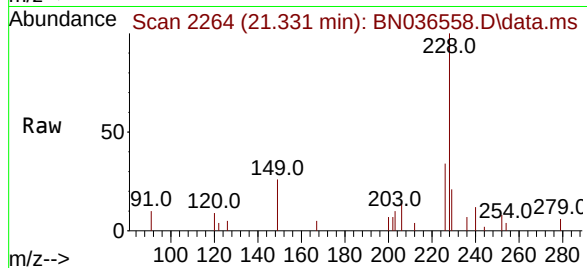
ClientSampleId :

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
APPROVED

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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

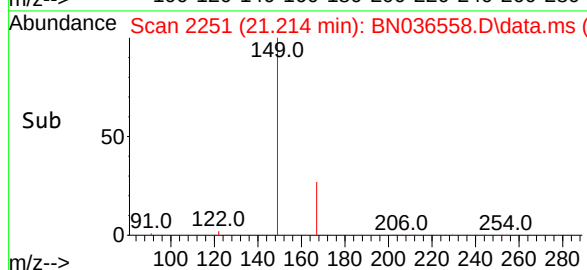
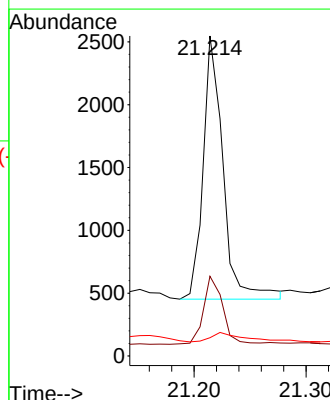
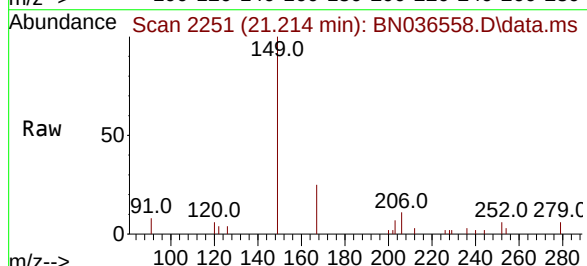
RT: 21.214 min Scan# 2251

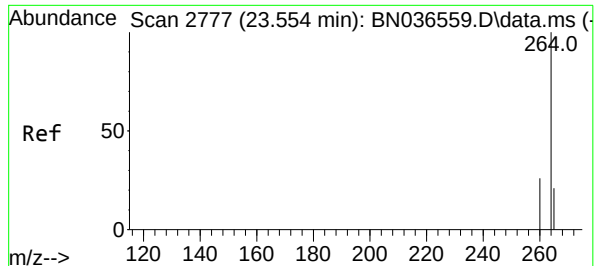
Delta R.T. 0.000 min

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

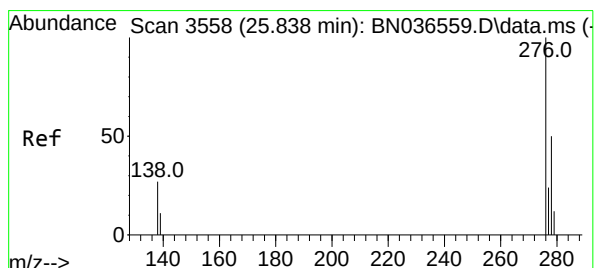
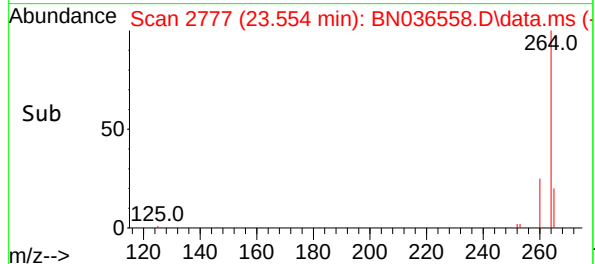
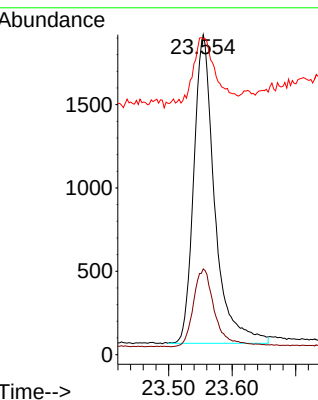
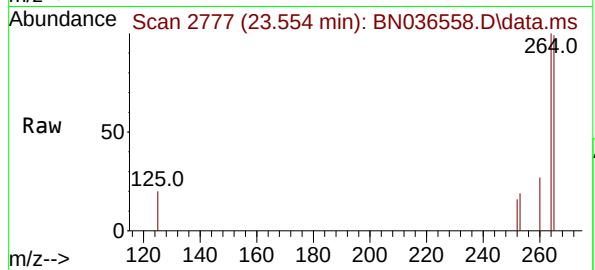
265 98.5 88.1 132.1

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: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

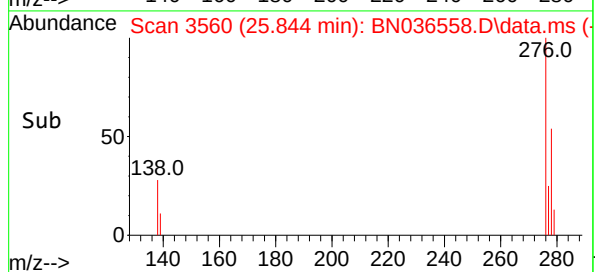
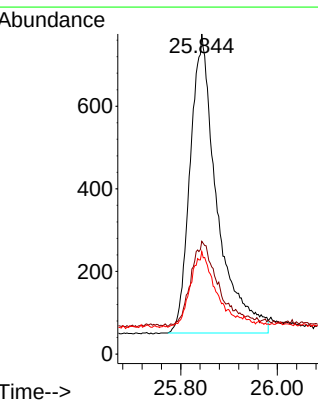
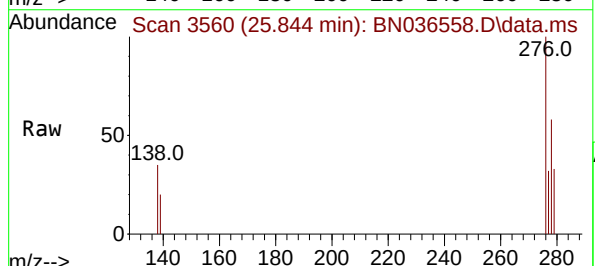
Tgt Ion:276 Resp: 2790

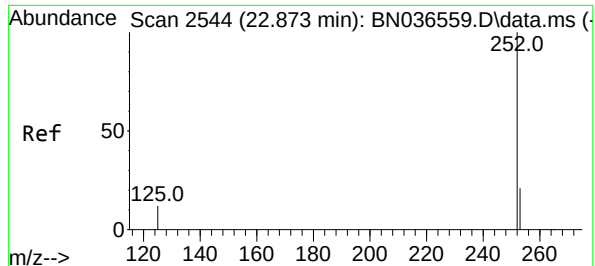
Ion Ratio Lower Upper

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: 288

Ion Ratio Lower Upper

252 100

253 37.1 23.9 35.9

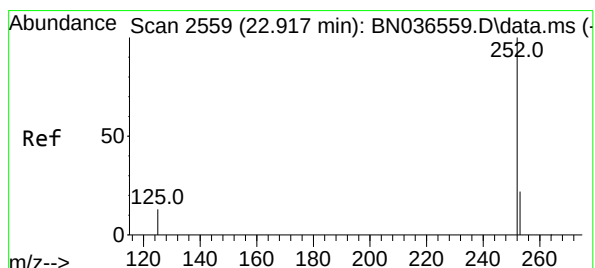
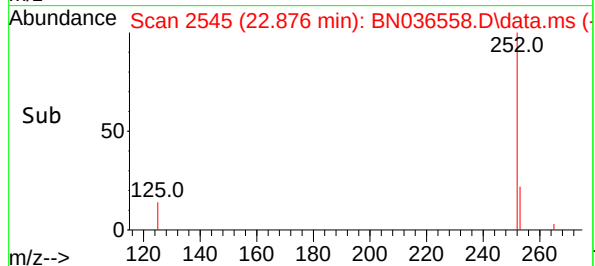
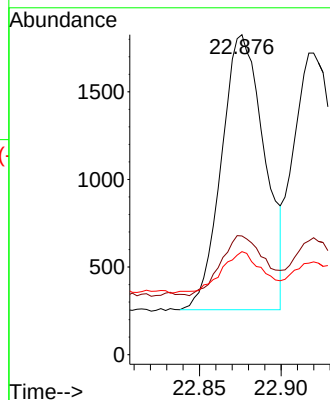
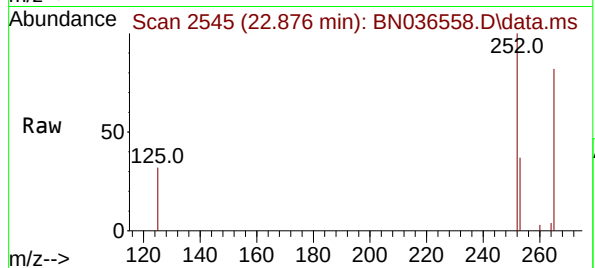
125 32.2 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

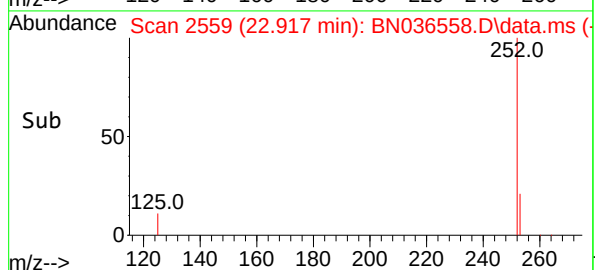
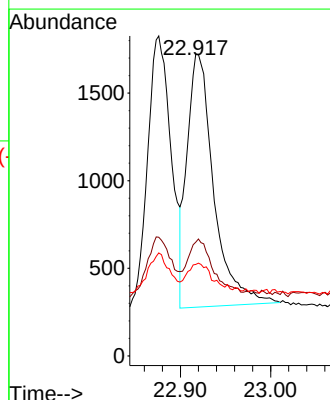
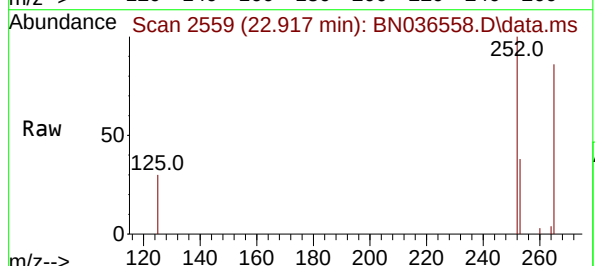
Tgt Ion:252 Resp: 2962

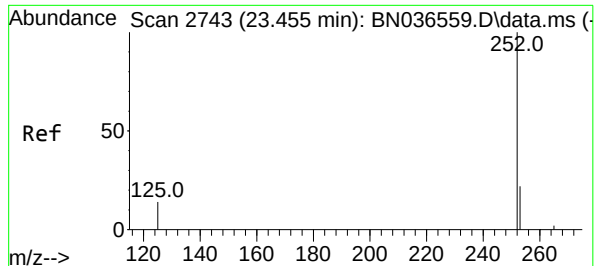
Ion Ratio Lower Upper

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 :

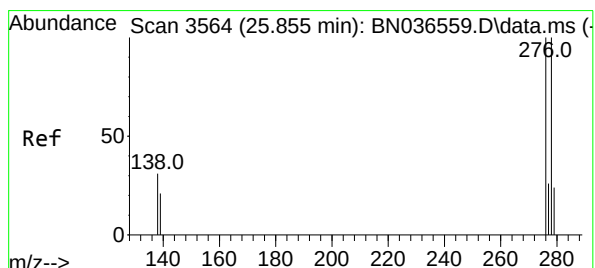
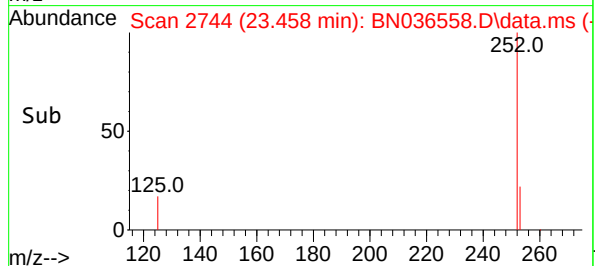
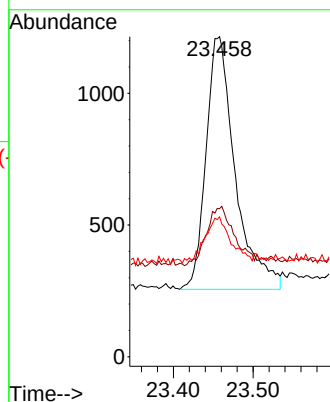
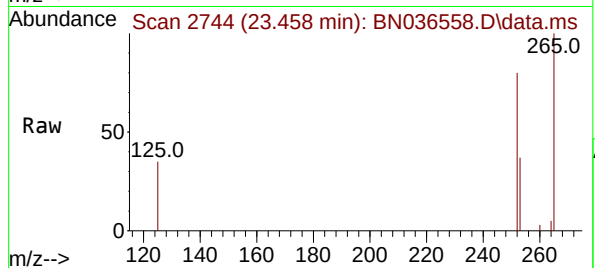
SSTDICC0.2

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

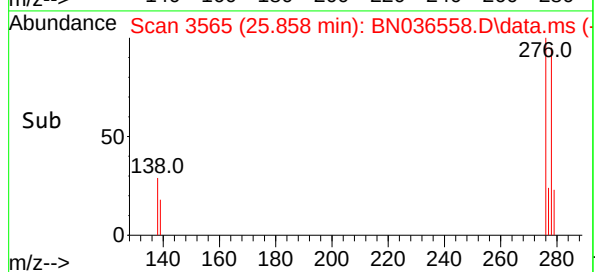
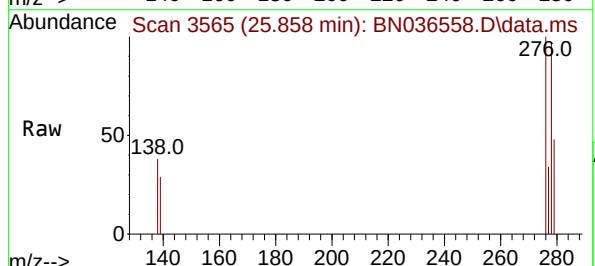
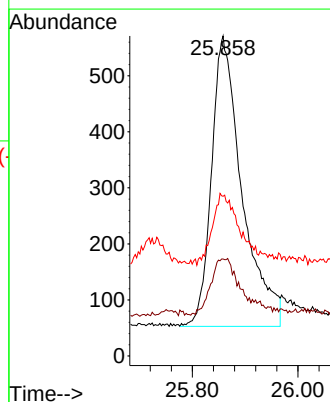
RT: 25.858 min Scan# 3565

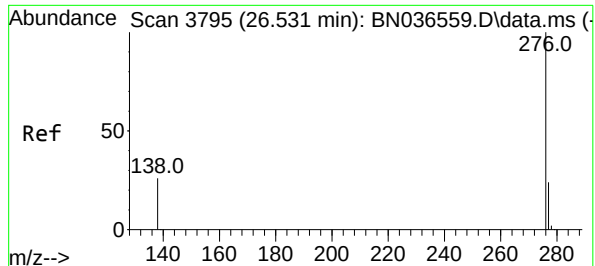
Delta R.T. 0.003 min

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

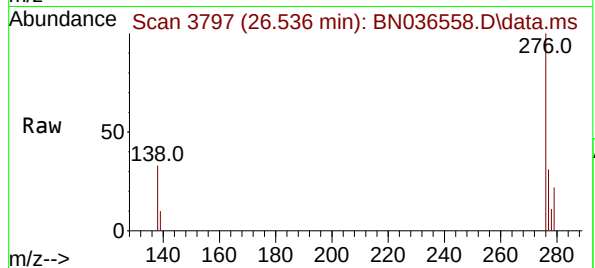
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 257

Ion Ratio Lower Upper

276 100

277 31.2 22.2 33.4

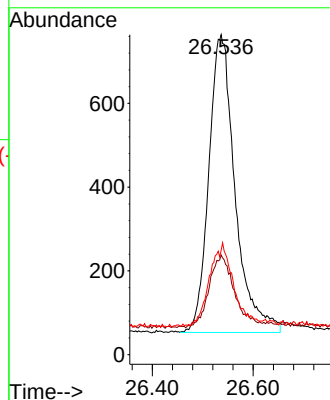
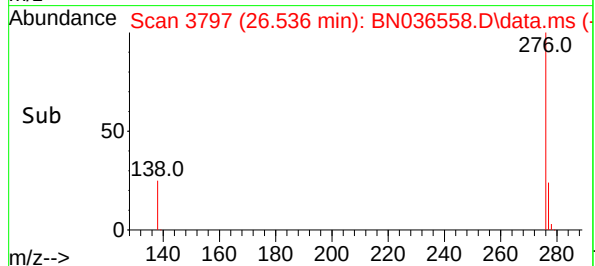
138 32.6 24.1 36.1

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

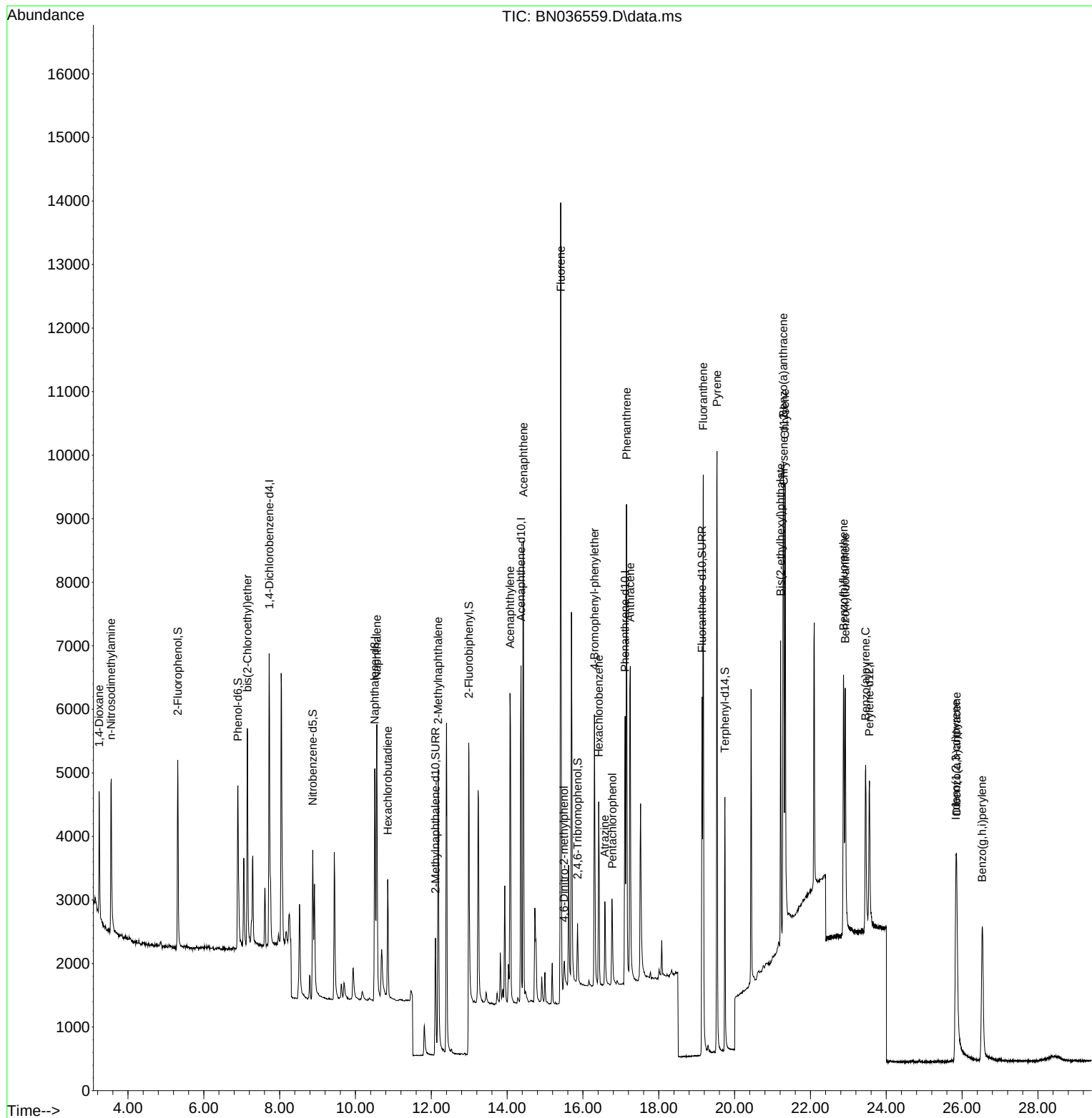
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng	0.00
29) Chrysene-d12	21.295	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						
2) 1,4-Dioxane	3.239	88	1099	0.449	ng	Qvalue 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

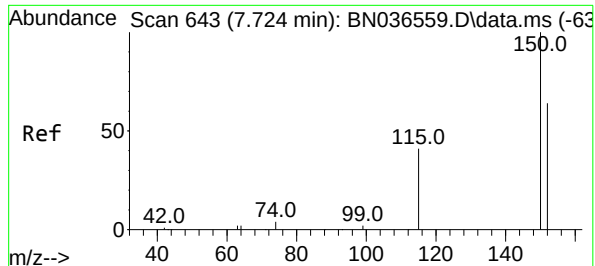
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

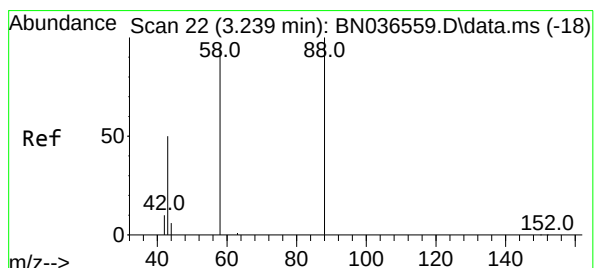
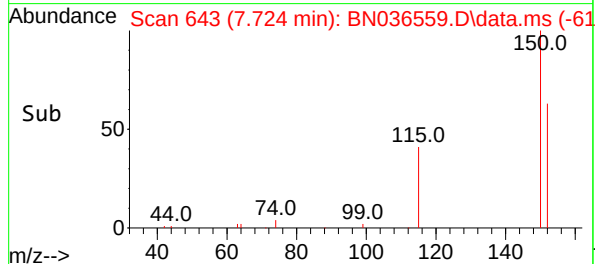
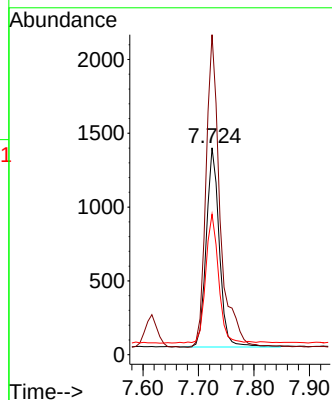
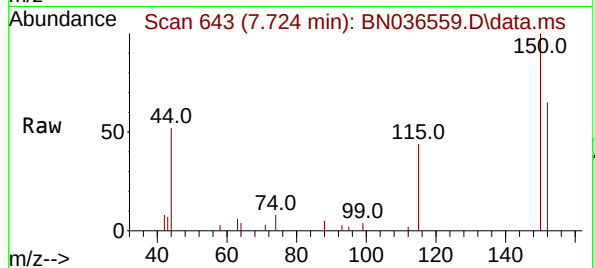




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

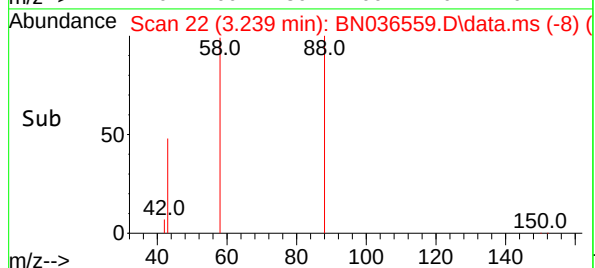
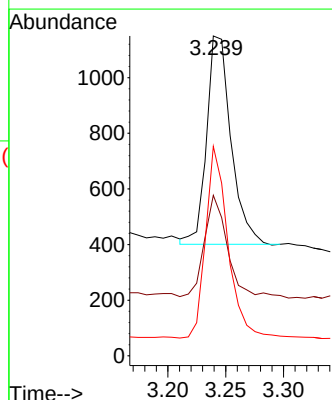
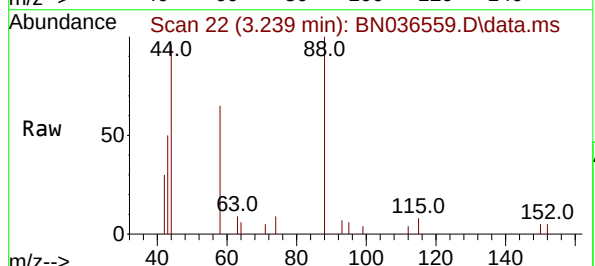
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

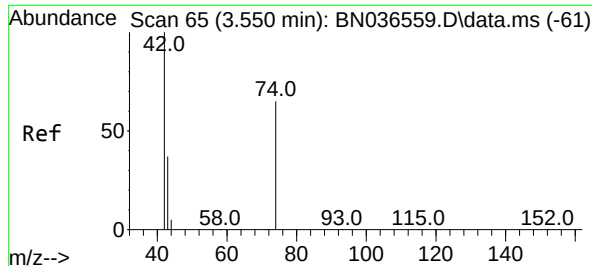
Tgt Ion:152 Resp: 2207
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.9 54.3 81.5



#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

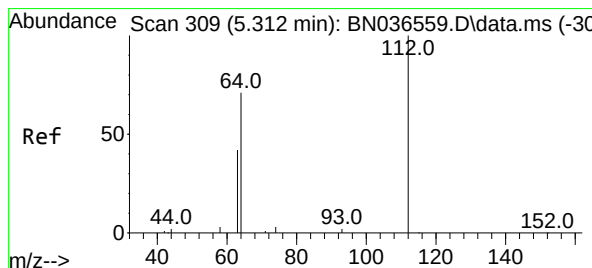
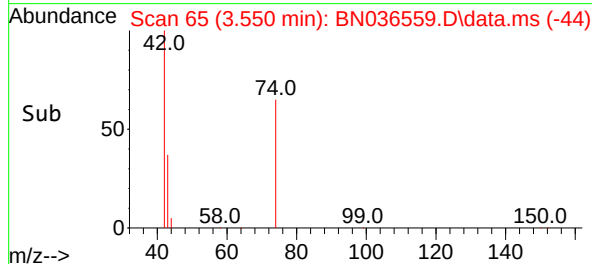
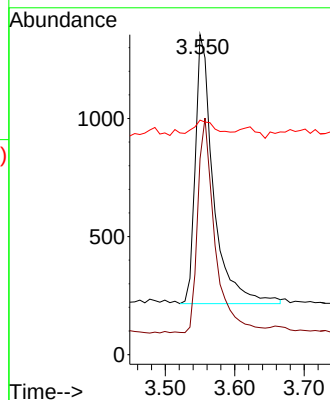
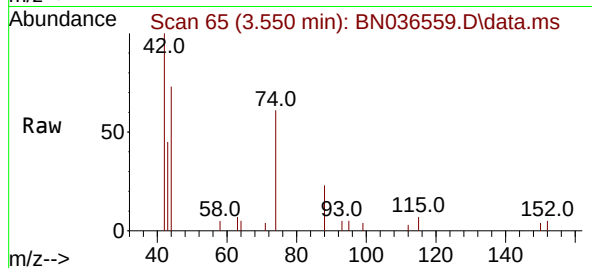




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

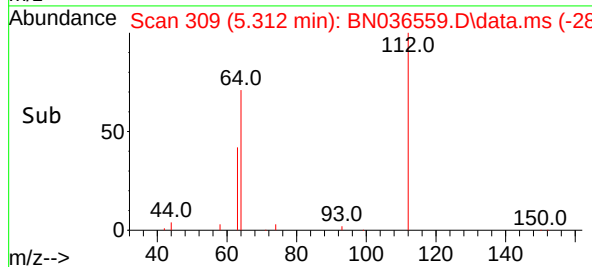
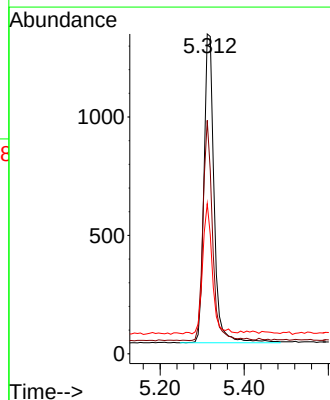
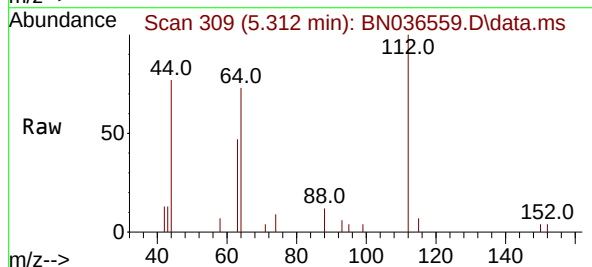
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

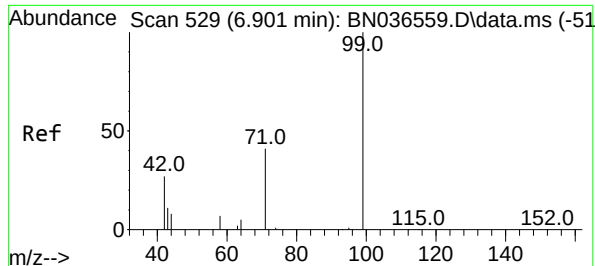
Tgt Ion: 42 Resp: 2063
Ion Ratio Lower Upper
42 100
74 75.7 60.6 90.8
44 7.9 6.3 9.5



#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

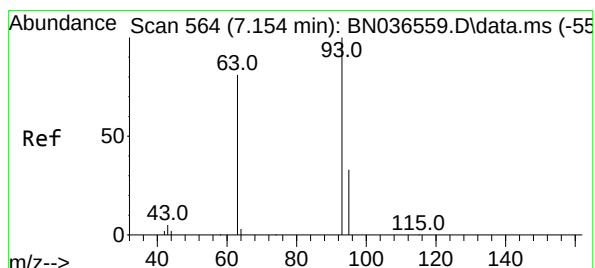
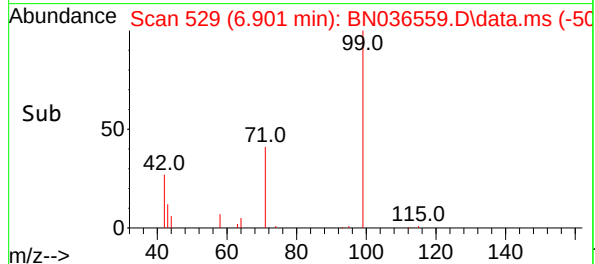
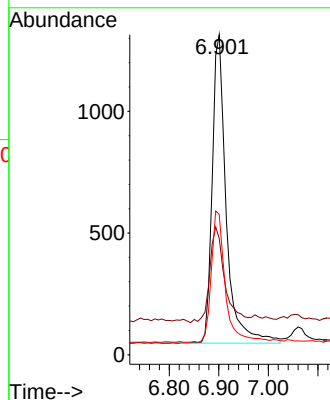
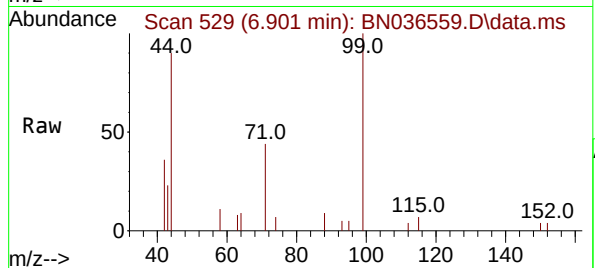




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

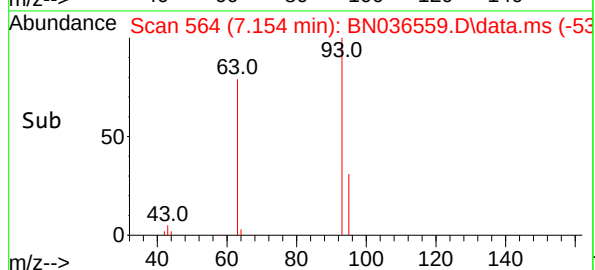
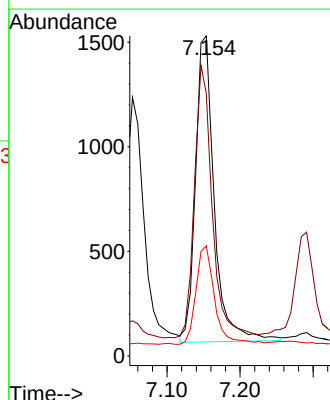
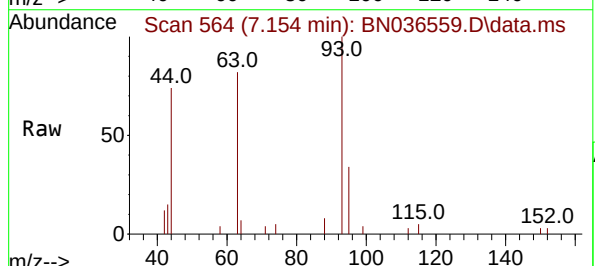
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

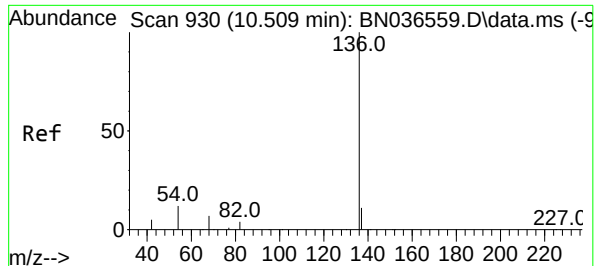
Tgt Ion: 99 Resp: 2489
Ion Ratio Lower Upper
99 100
42 33.1 26.5 39.7
71 42.6 34.1 51.1



#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

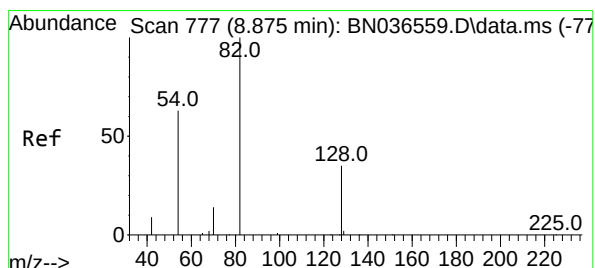
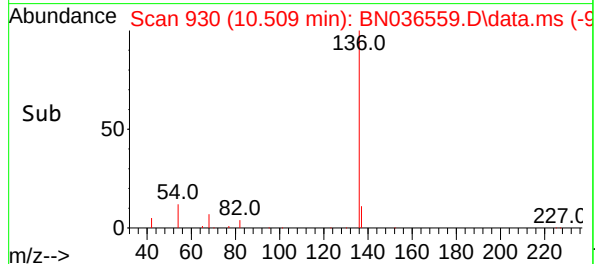
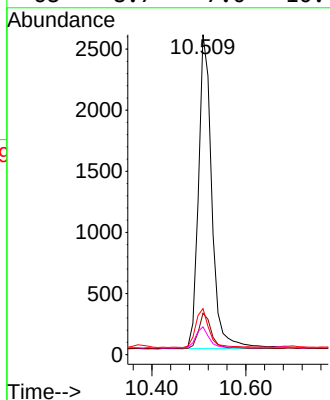
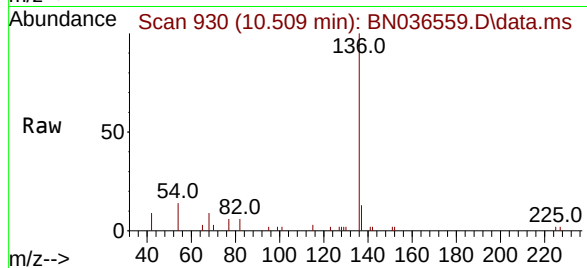




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

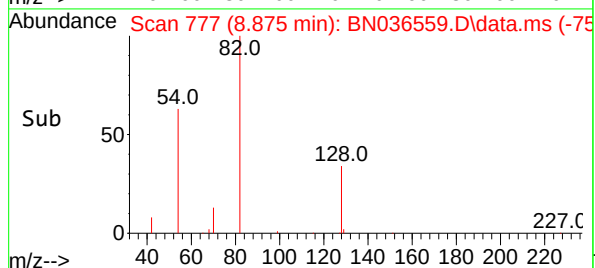
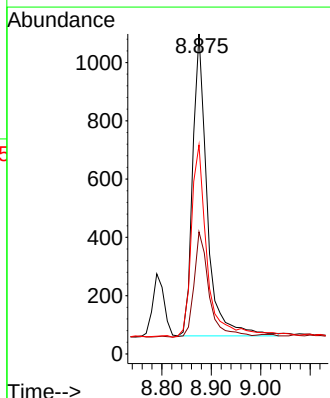
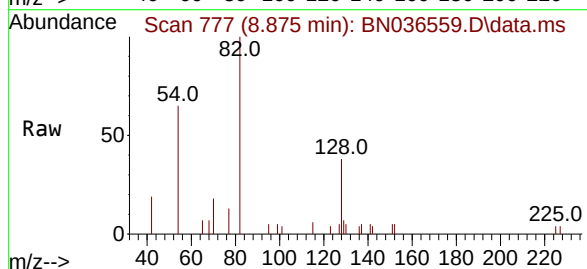
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

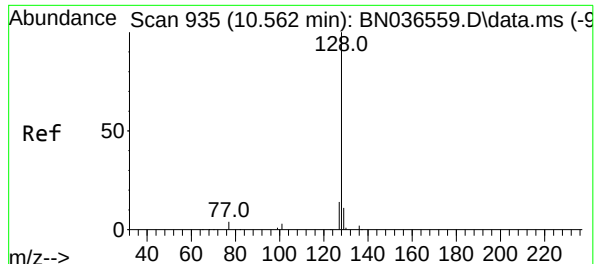
Tgt Ion:	136	Resp:	5091
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4



#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# 91

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

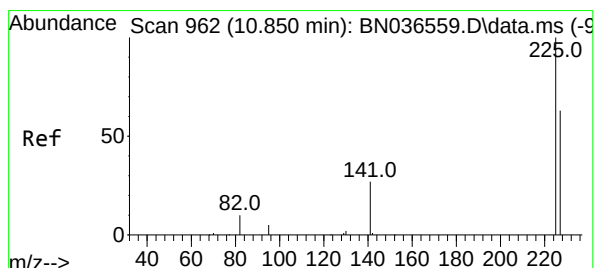
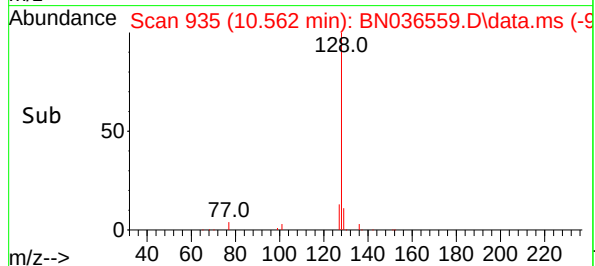
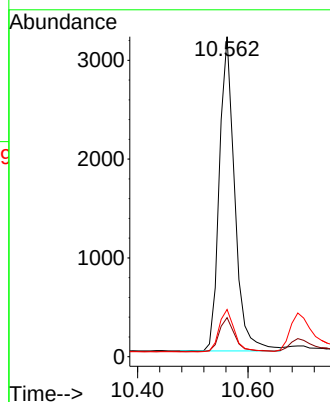
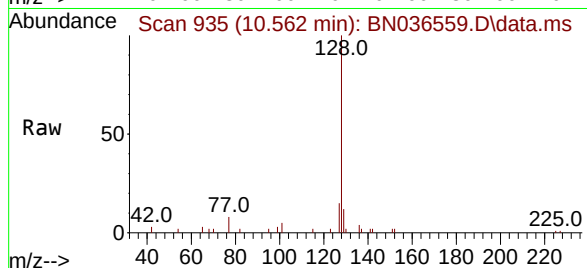
Tgt Ion:128 Resp: 6139

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

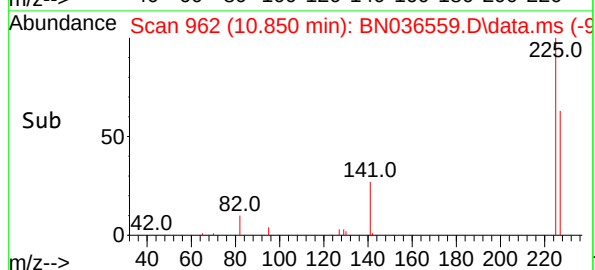
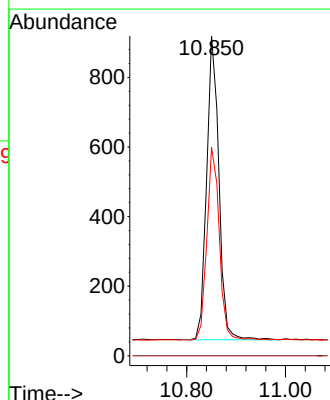
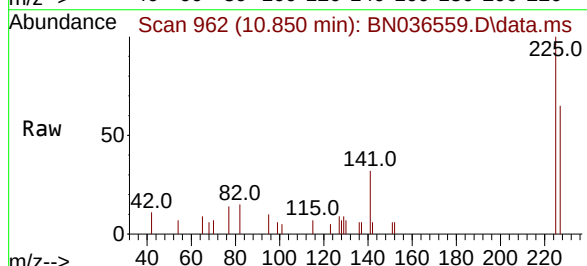
Tgt Ion:225 Resp: 1498

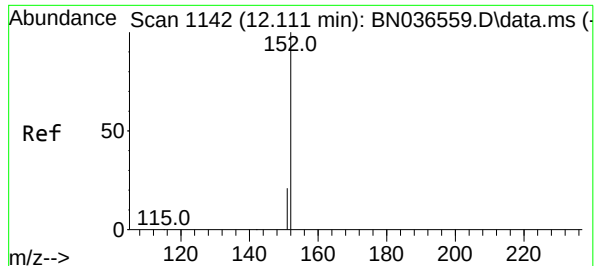
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.8 51.8 77.8

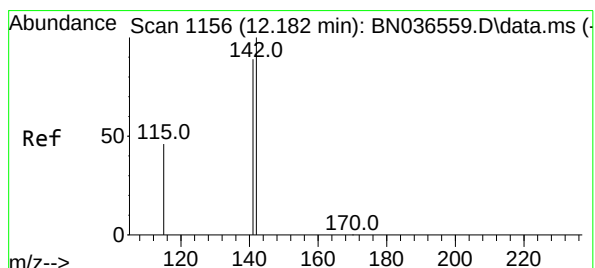
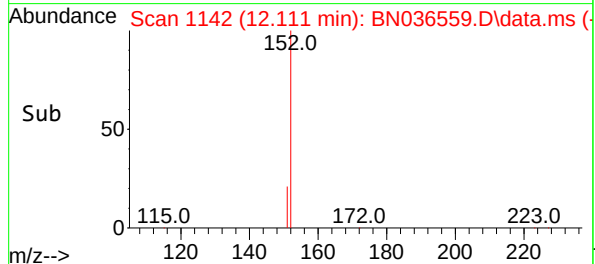
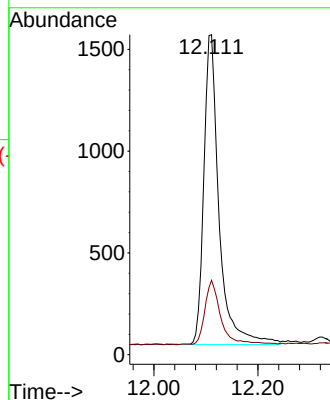
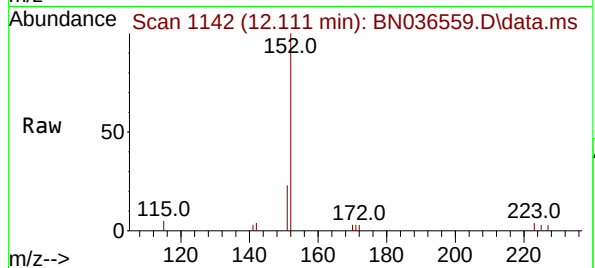




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

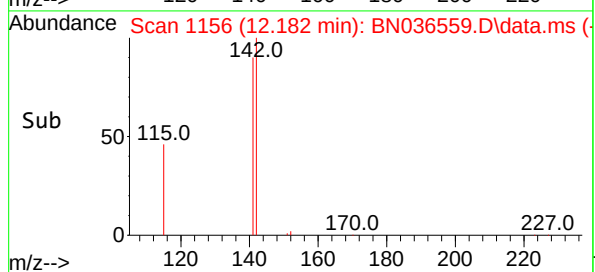
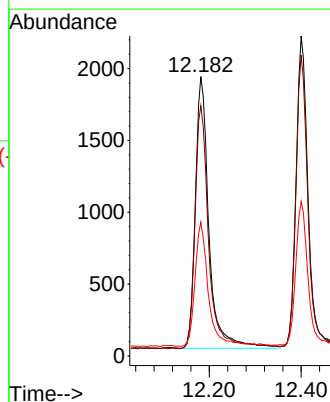
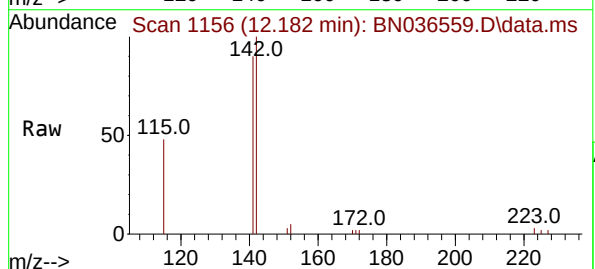
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

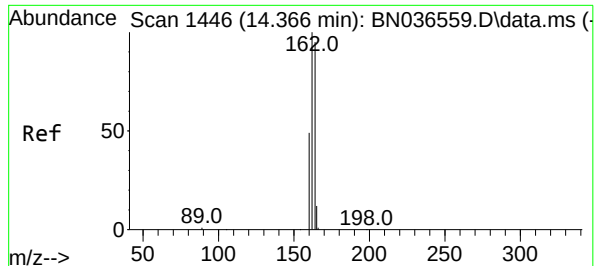
Tgt Ion:152 Resp: 3085
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#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

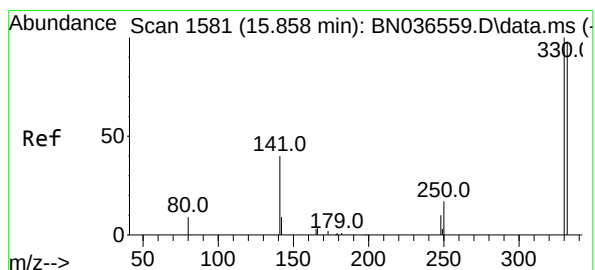
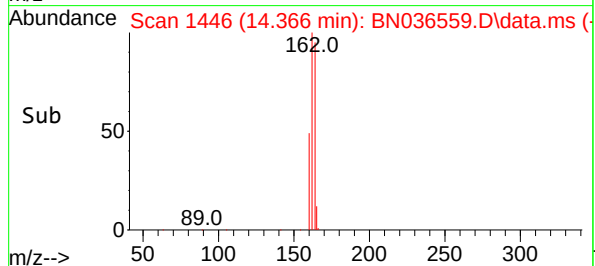
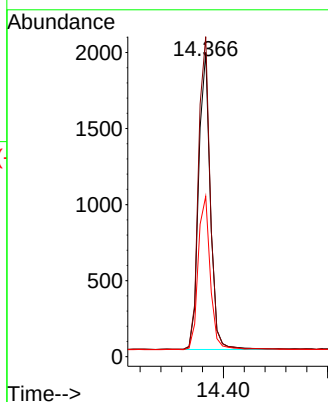
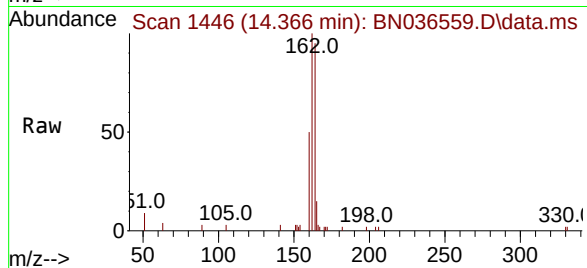




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

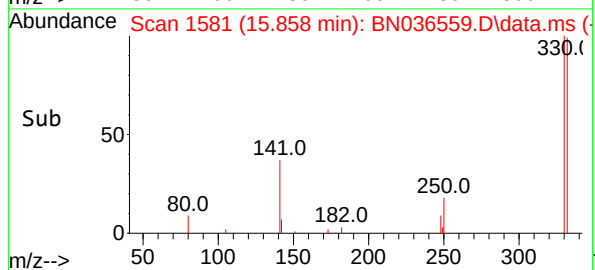
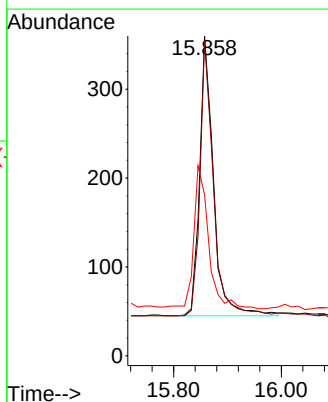
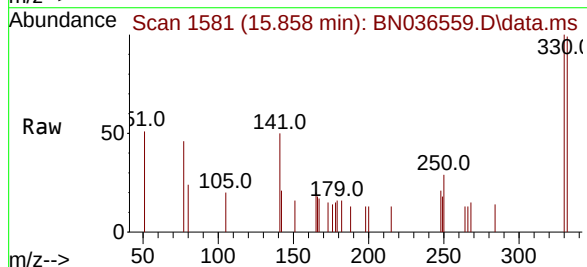
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

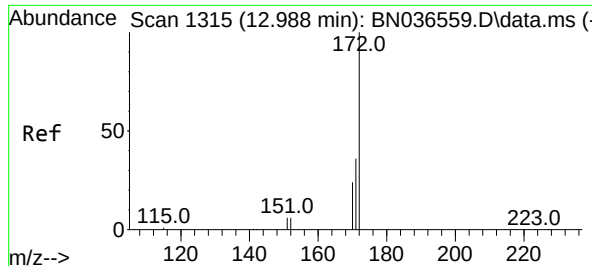
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.7 42.2 63.2



#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

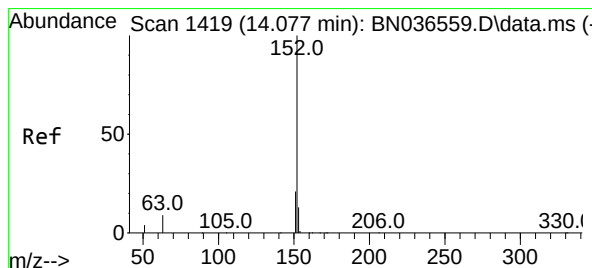
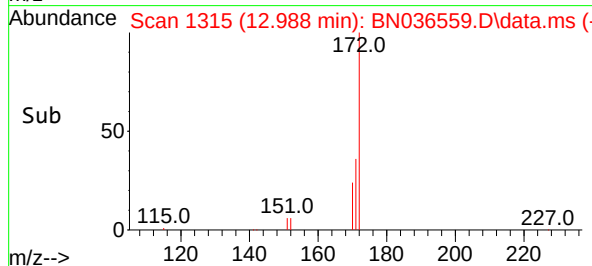
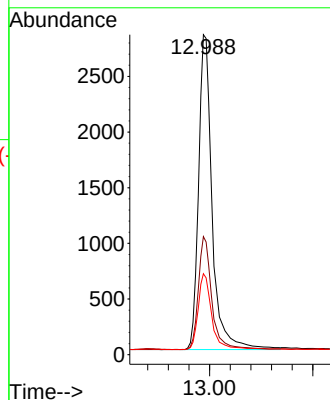
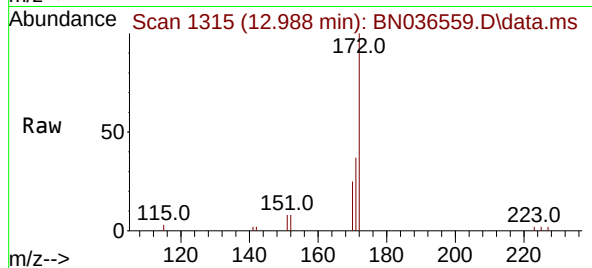
Tgt Ion:172 Resp: 7257

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

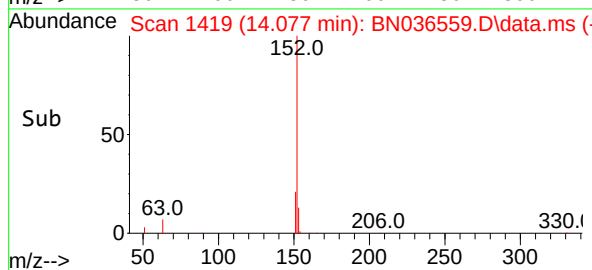
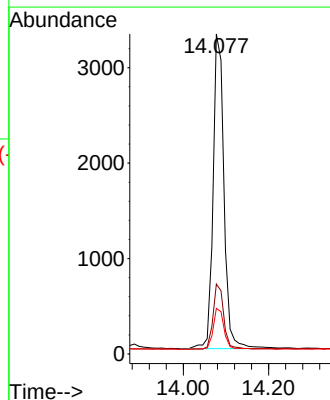
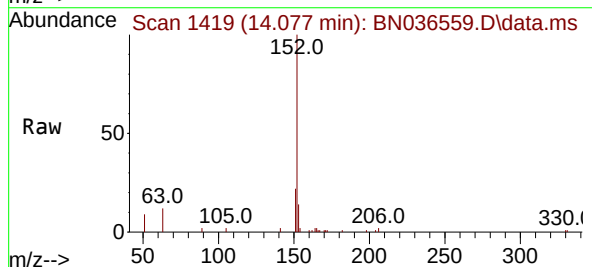
Tgt Ion:152 Resp: 5865

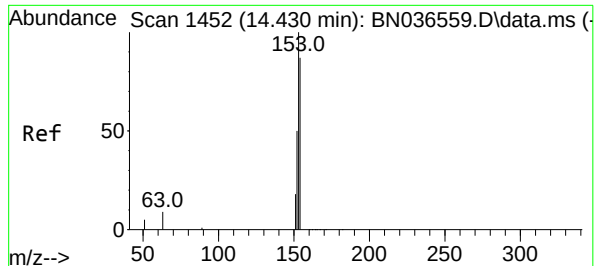
Ion Ratio Lower Upper

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

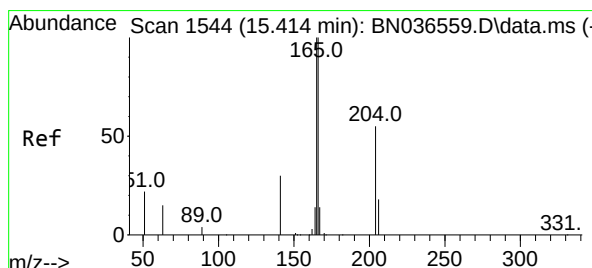
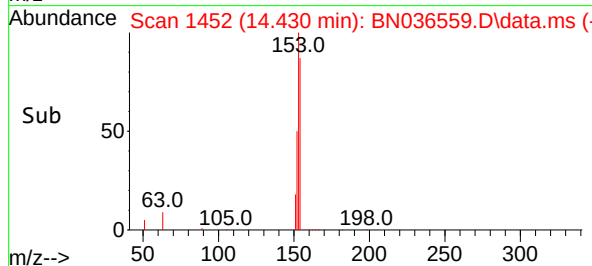
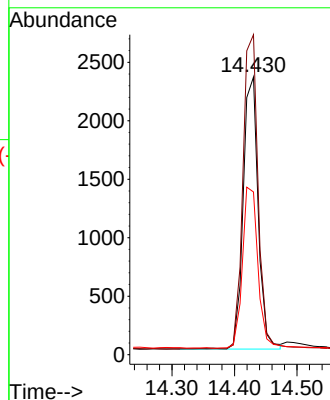
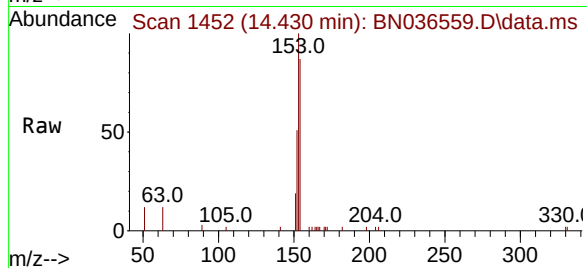
Tgt Ion:154 Resp: 3877

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

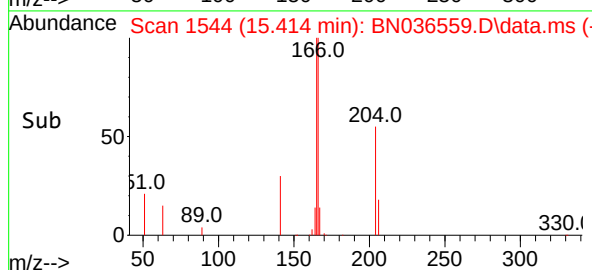
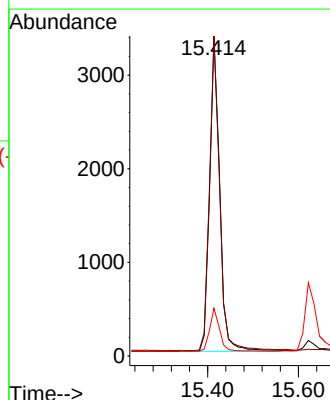
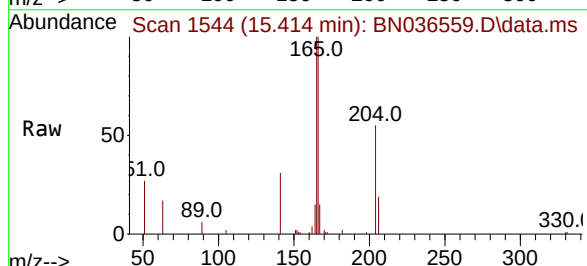
Tgt Ion:166 Resp: 5338

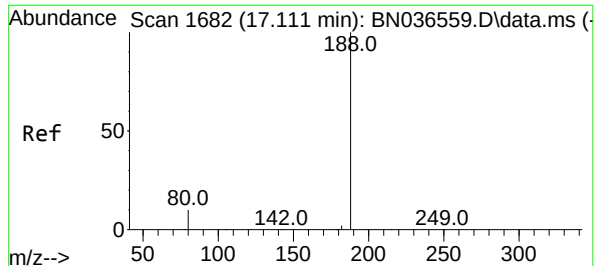
Ion Ratio Lower Upper

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

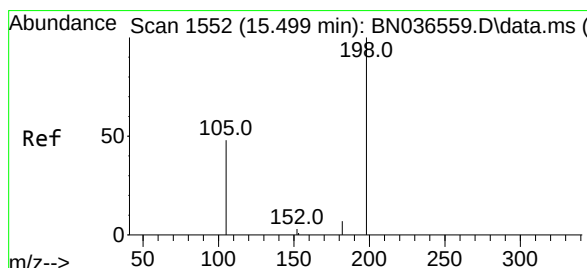
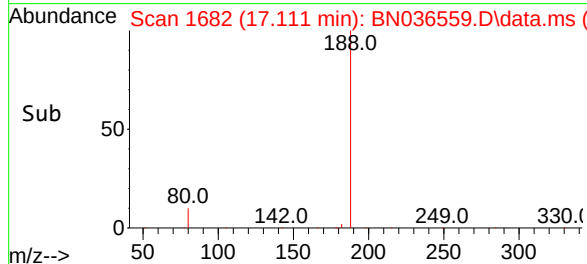
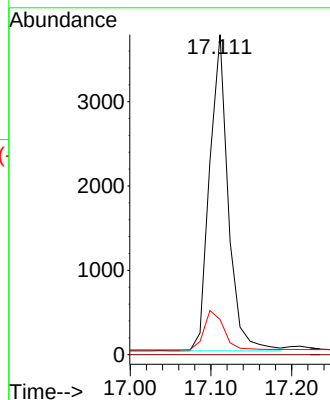
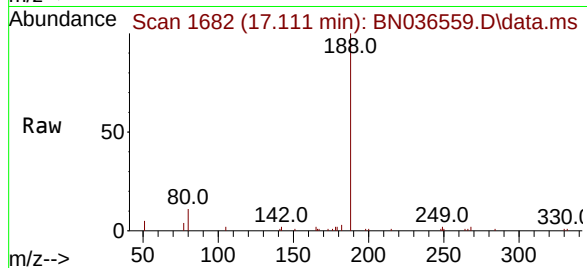
Tgt Ion:188 Resp: 6005

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

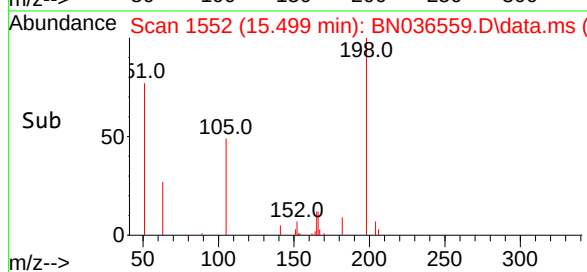
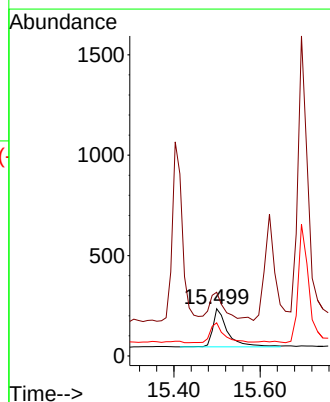
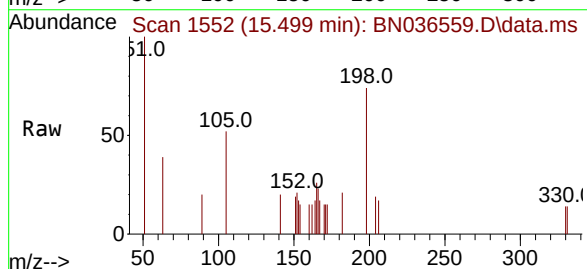
Tgt Ion:198 Resp: 462

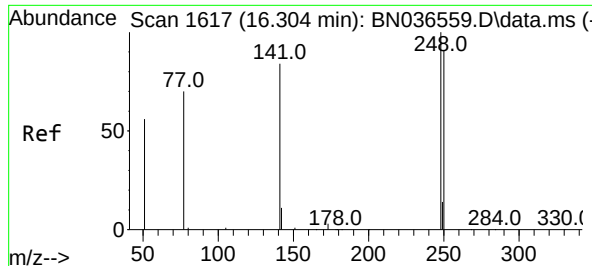
Ion Ratio Lower Upper

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

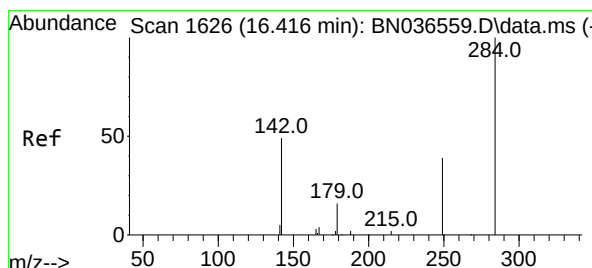
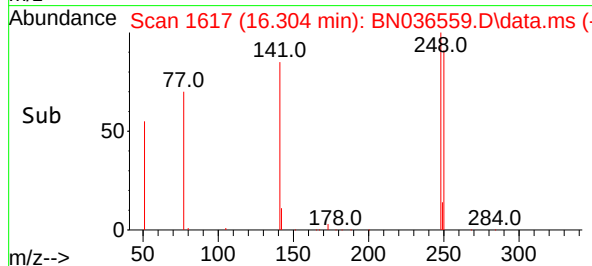
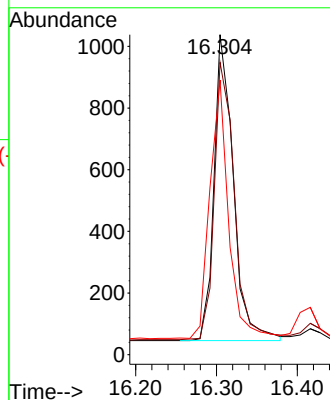
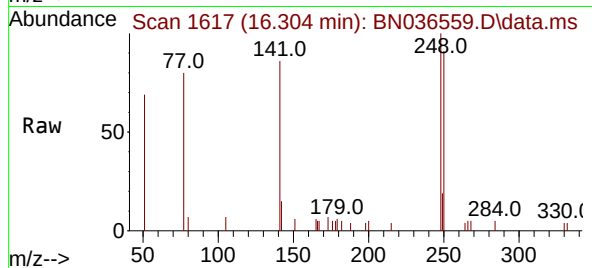
Tgt Ion:248 Resp: 1644

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

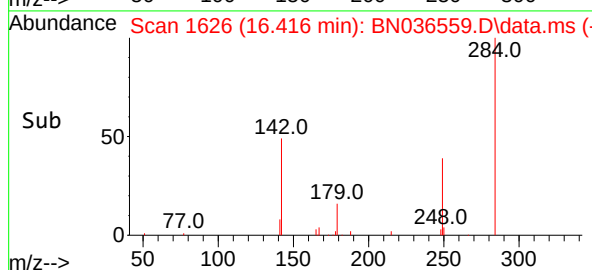
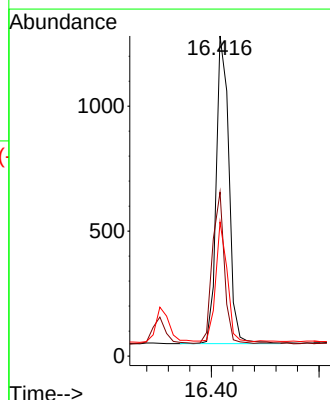
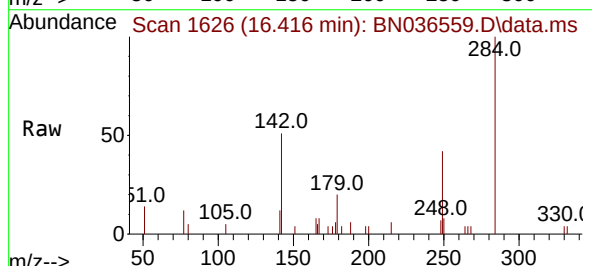
Tgt Ion:284 Resp: 2018

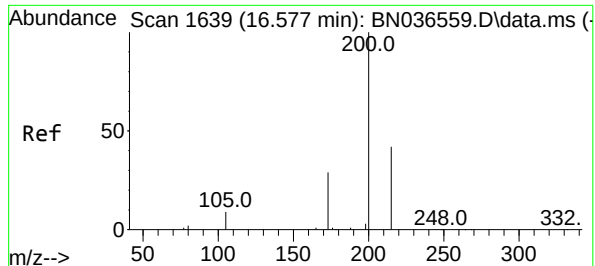
Ion Ratio Lower Upper

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

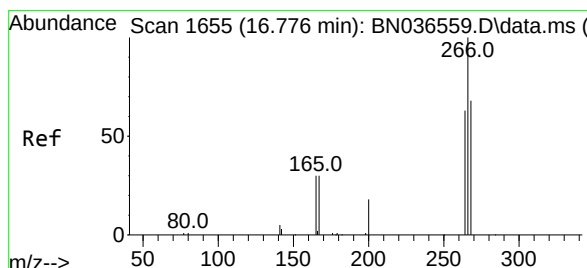
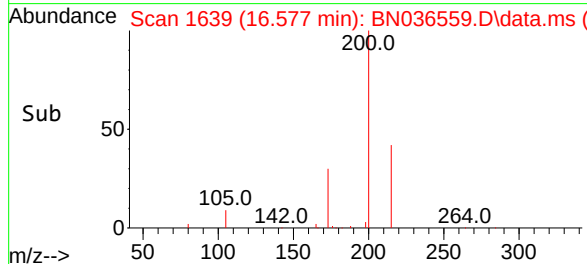
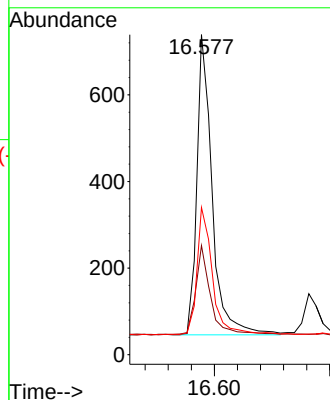
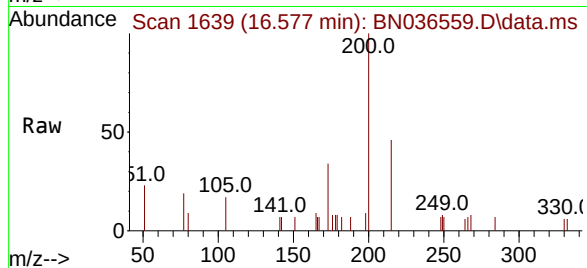
Tgt Ion:200 Resp: 1279

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

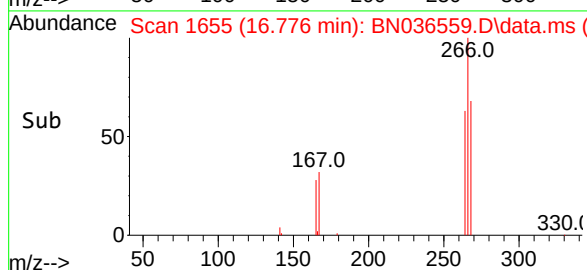
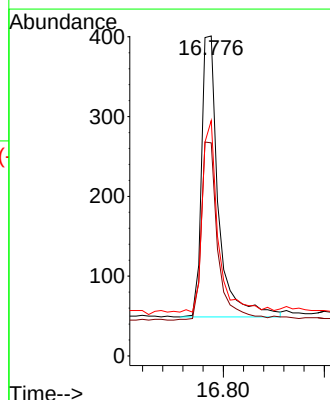
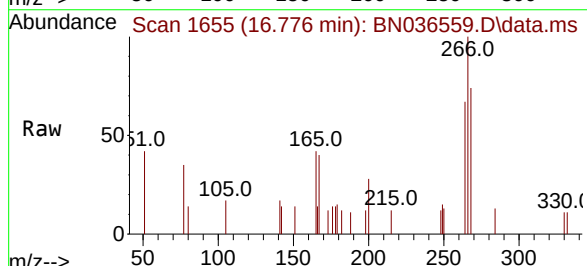
Tgt Ion:266 Resp: 821

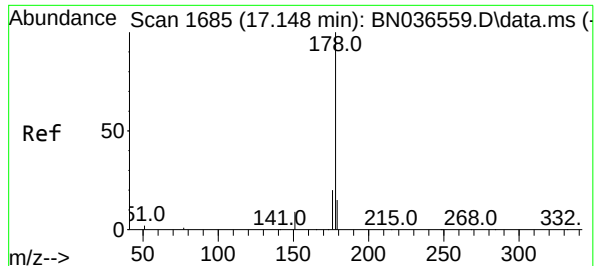
Ion Ratio Lower Upper

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

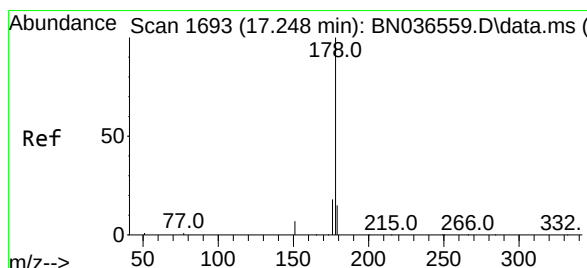
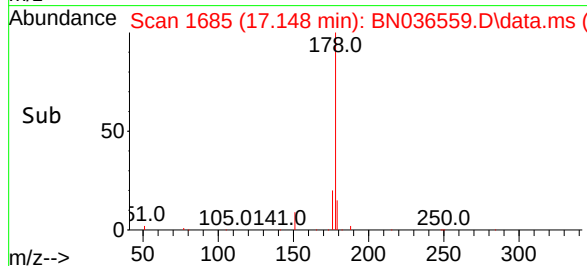
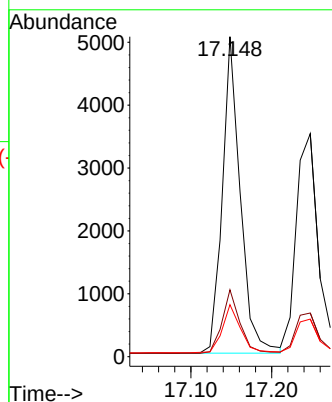
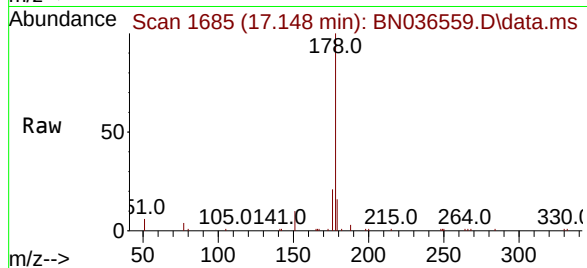
Tgt Ion:178 Resp: 7786

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

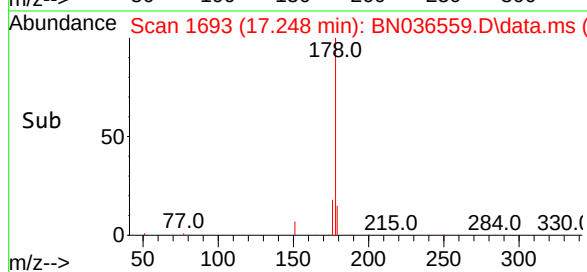
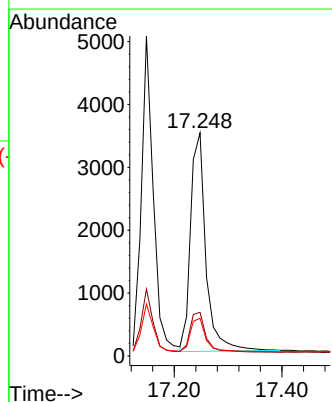
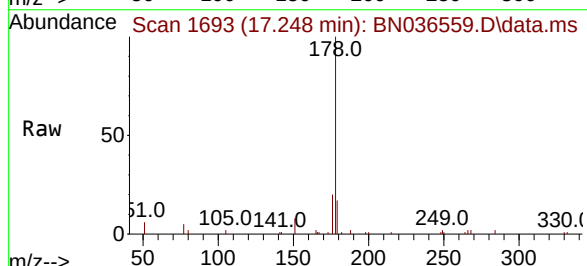
Tgt Ion:178 Resp: 6886

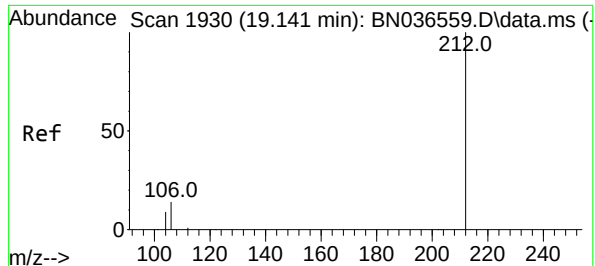
Ion Ratio Lower Upper

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

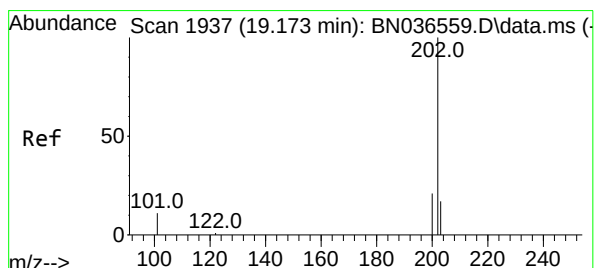
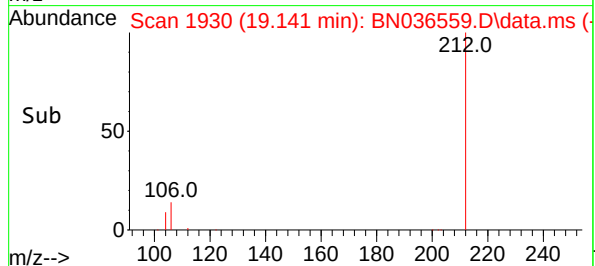
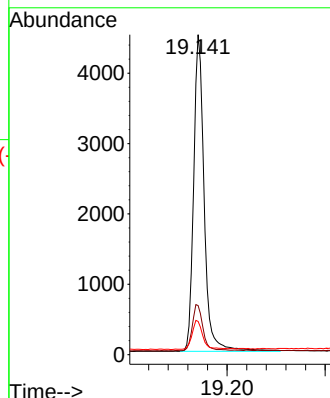
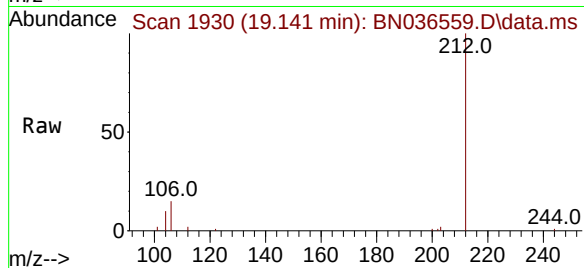
Tgt Ion:212 Resp: 6699

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

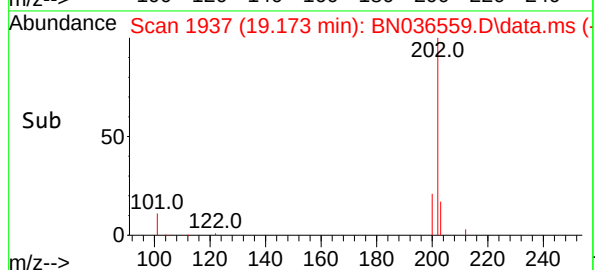
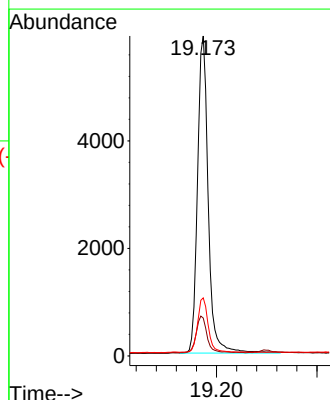
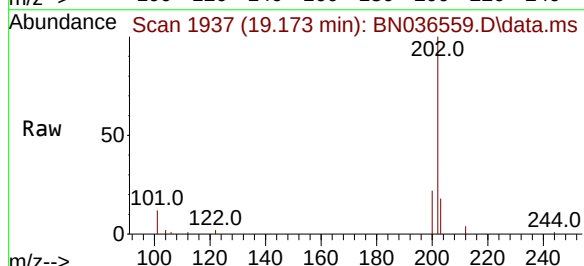
Tgt Ion:202 Resp: 8717

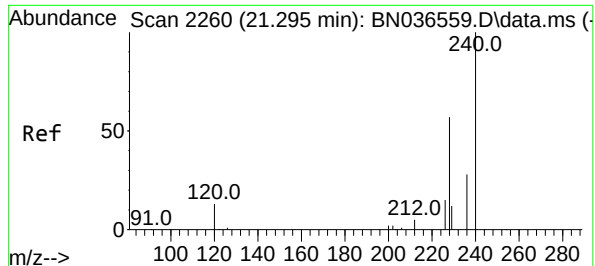
Ion Ratio Lower Upper

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

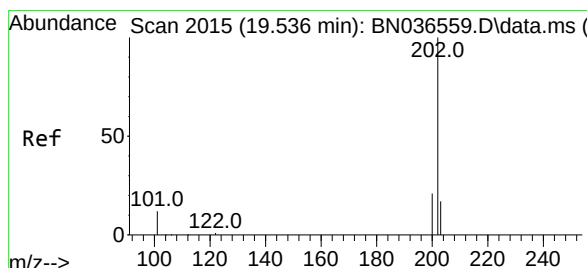
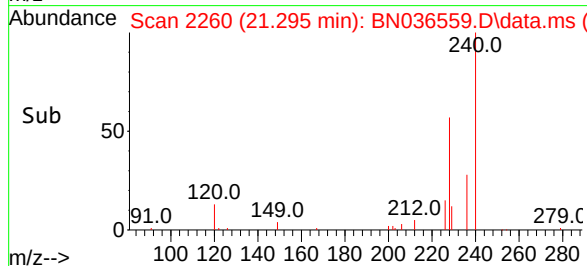
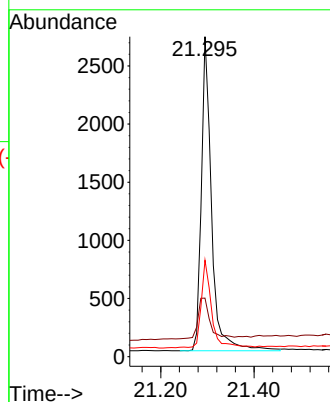
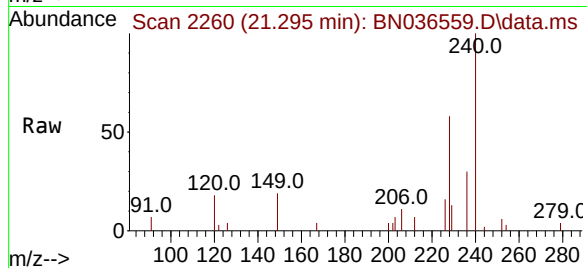
Tgt Ion:240 Resp: 4110

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

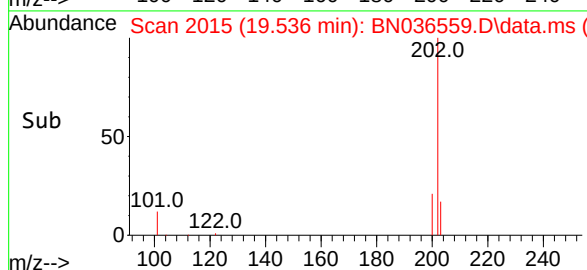
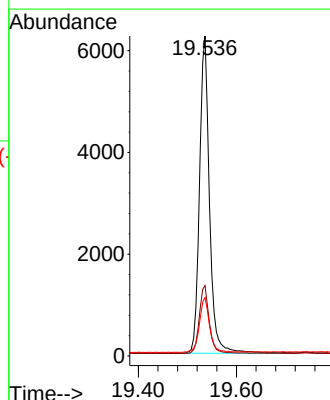
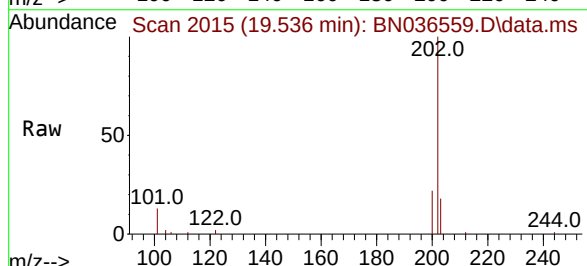
Tgt Ion:202 Resp: 8759

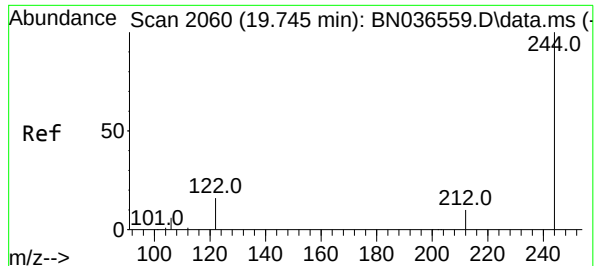
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

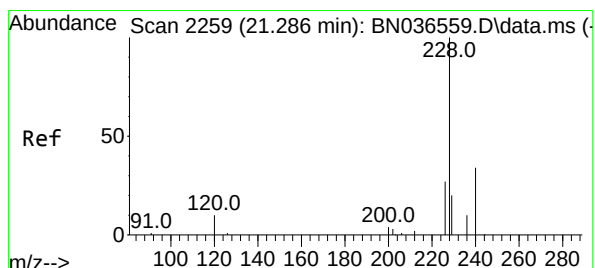
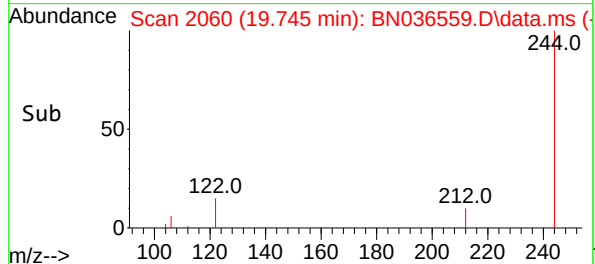
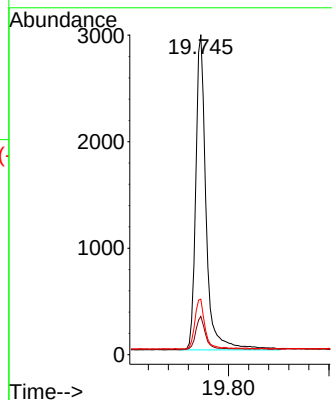
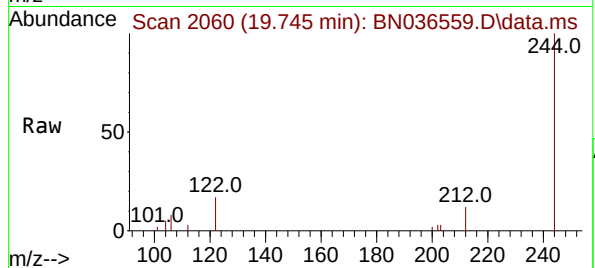




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

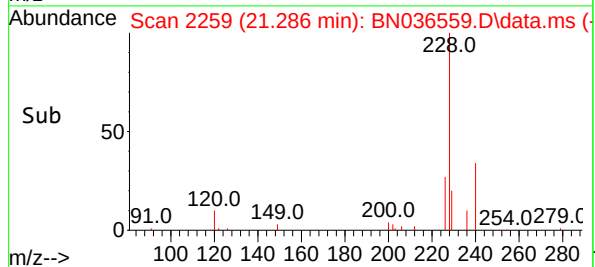
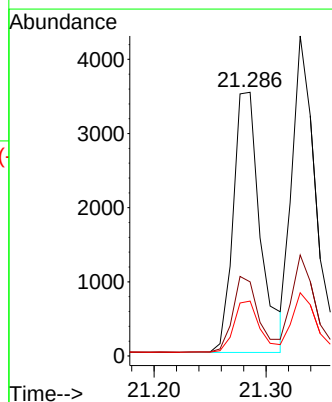
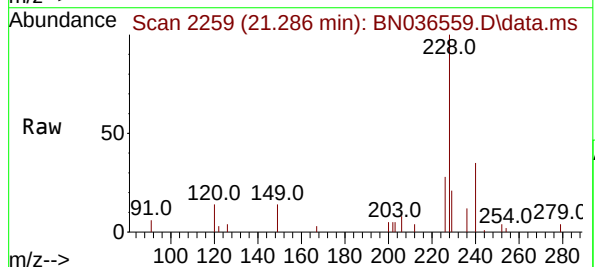
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

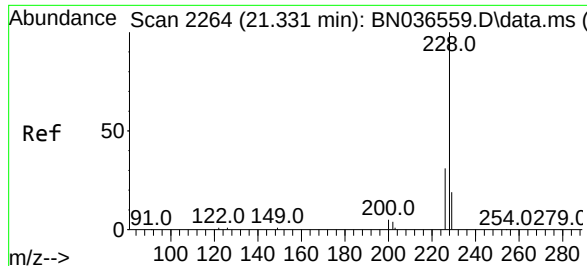
Tgt Ion:244 Resp: 4226
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#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

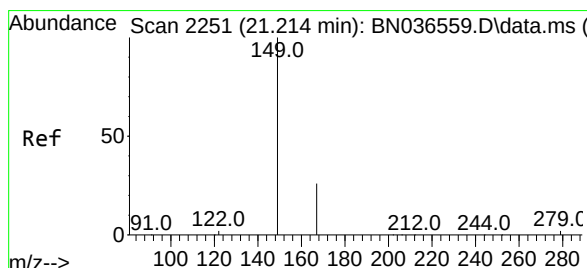
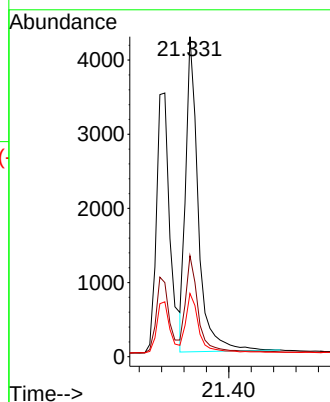
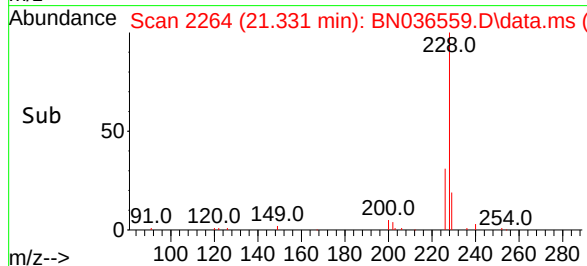
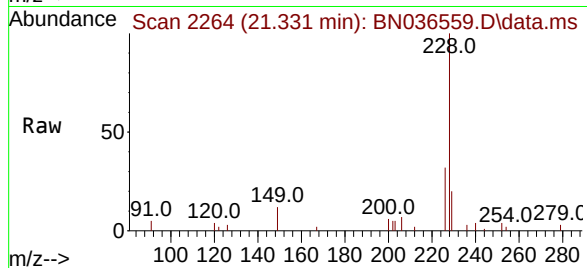
Tgt Ion:228 Resp: 6617

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

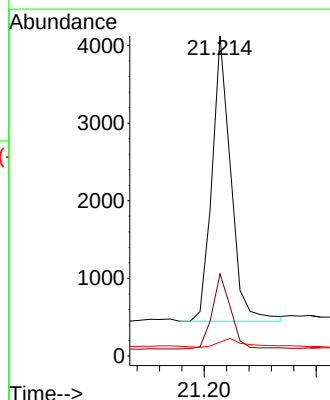
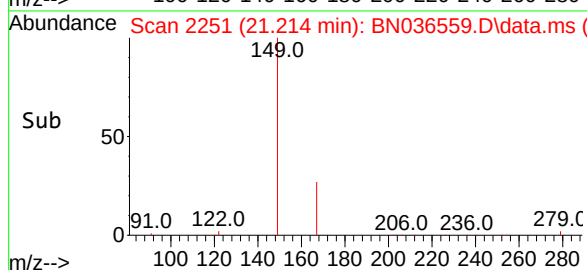
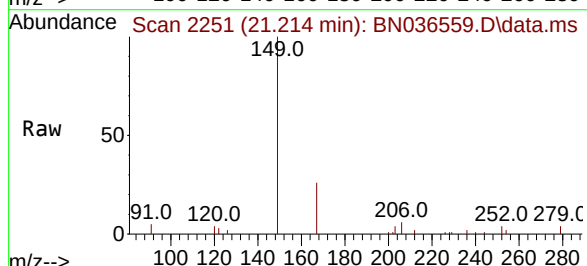
Tgt Ion:149 Resp: 4291

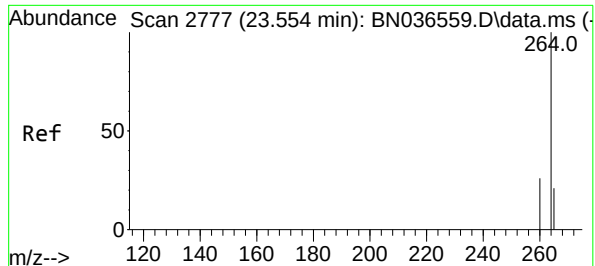
Ion Ratio Lower Upper

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

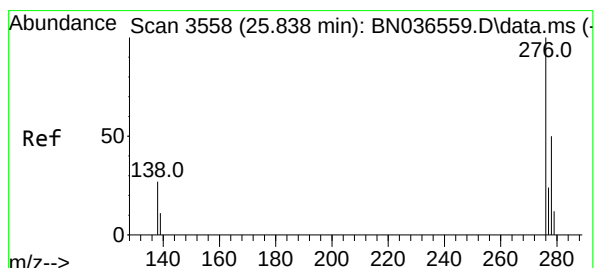
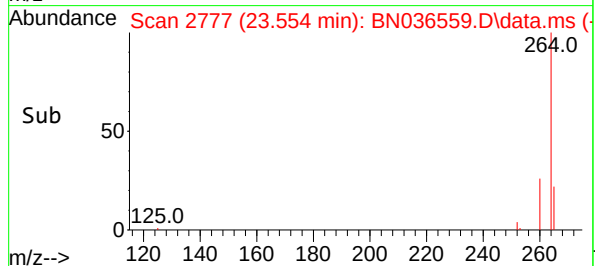
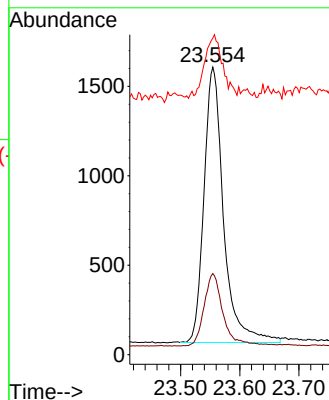
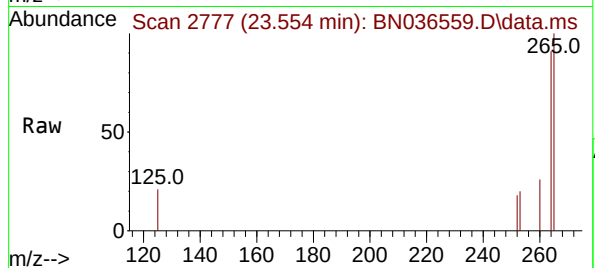
Tgt Ion:264 Resp: 3539

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

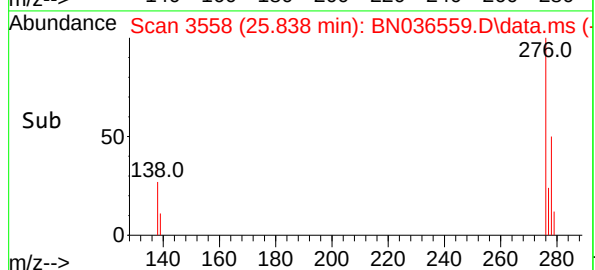
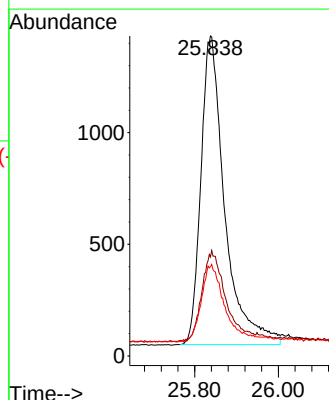
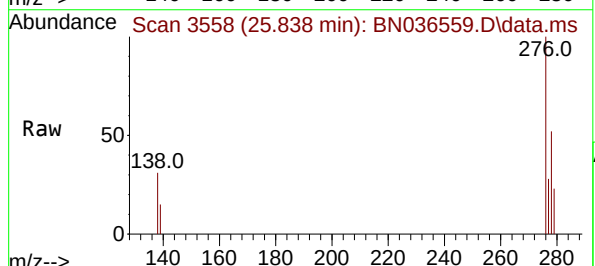
Tgt Ion:276 Resp: 5470

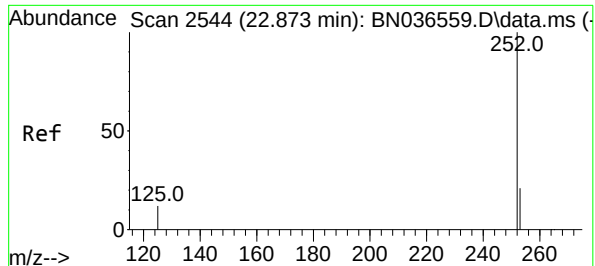
Ion Ratio Lower Upper

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

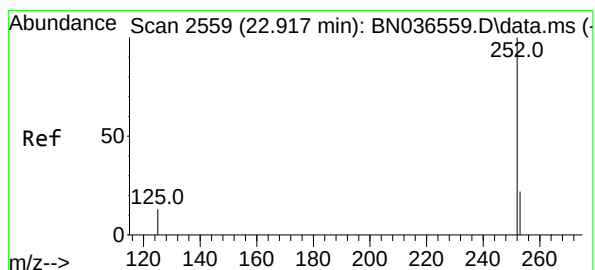
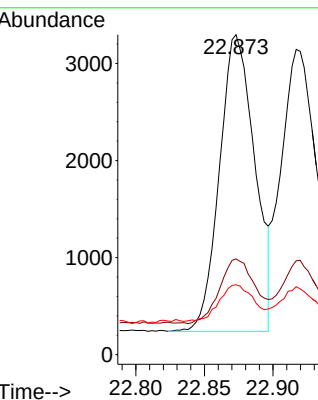
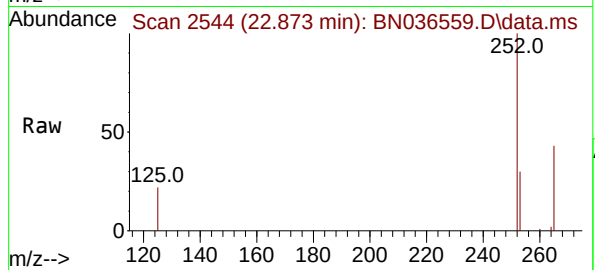
Tgt Ion:252 Resp: 5475

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

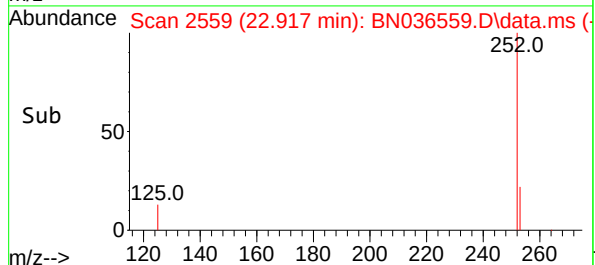
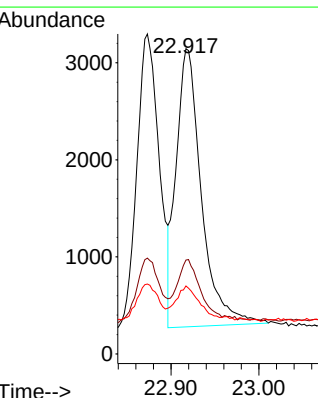
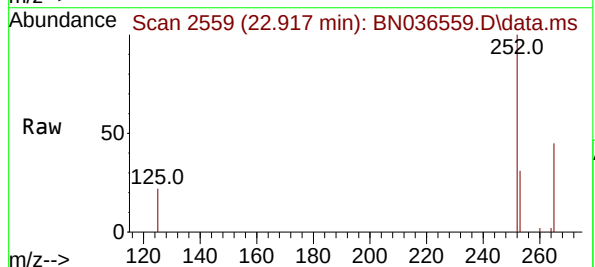
Tgt Ion:252 Resp: 5732

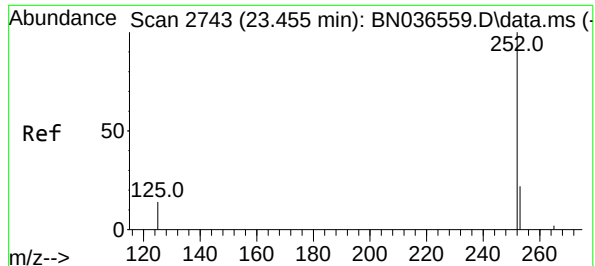
Ion Ratio Lower Upper

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

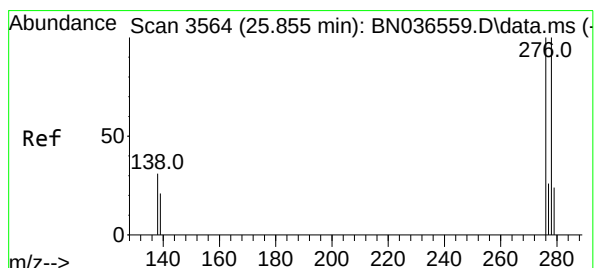
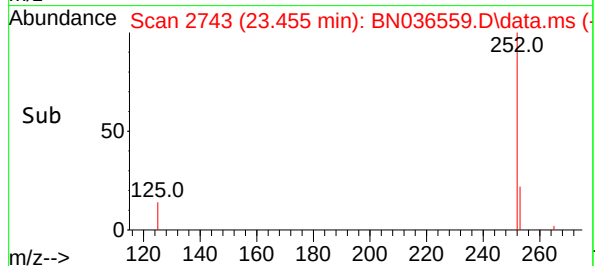
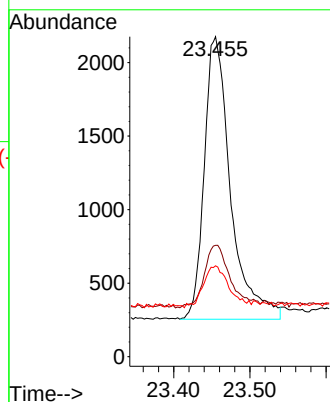
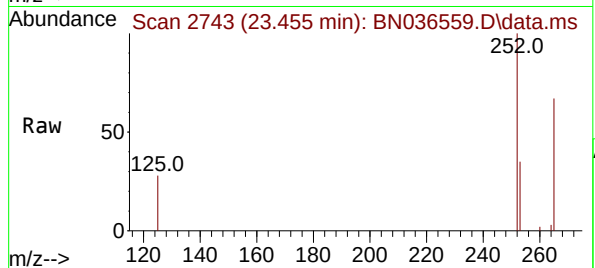
Tgt Ion:252 Resp: 4612

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

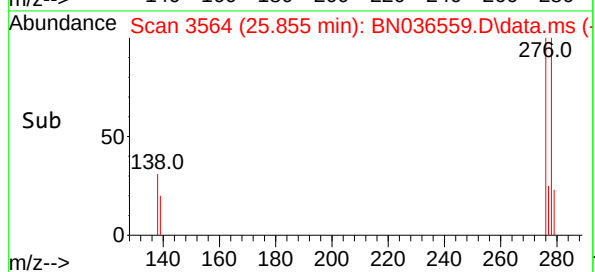
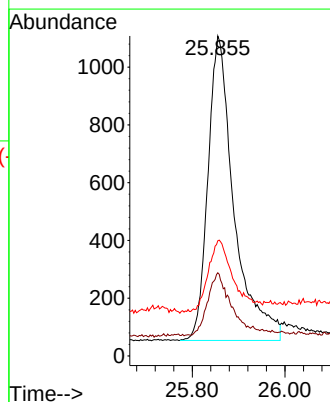
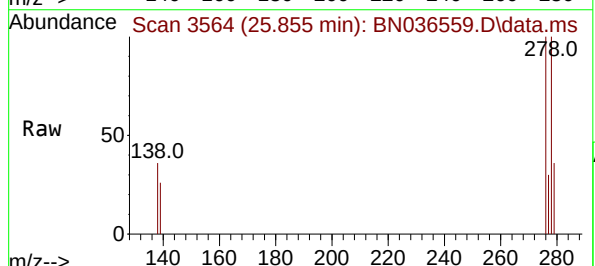
Tgt Ion:278 Resp: 4117

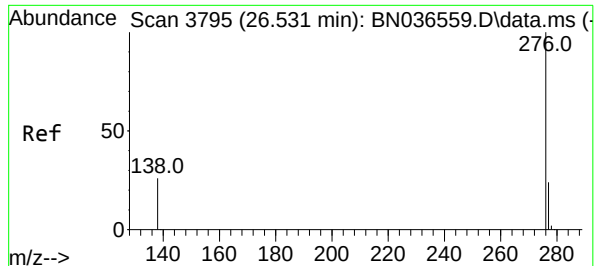
Ion Ratio Lower Upper

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

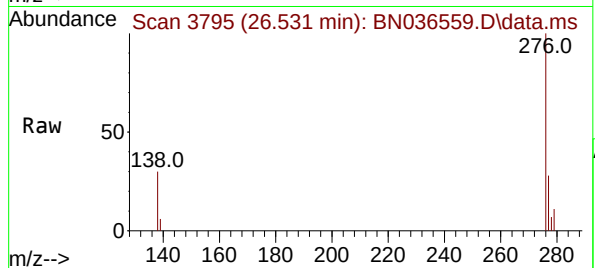
Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



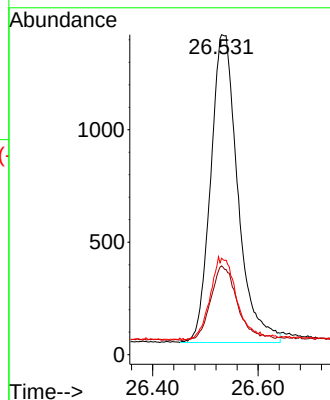
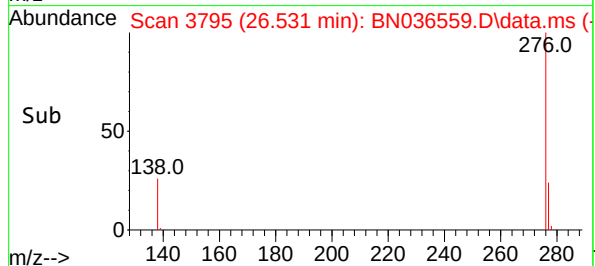
Tgt Ion:276 Resp: 4891

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

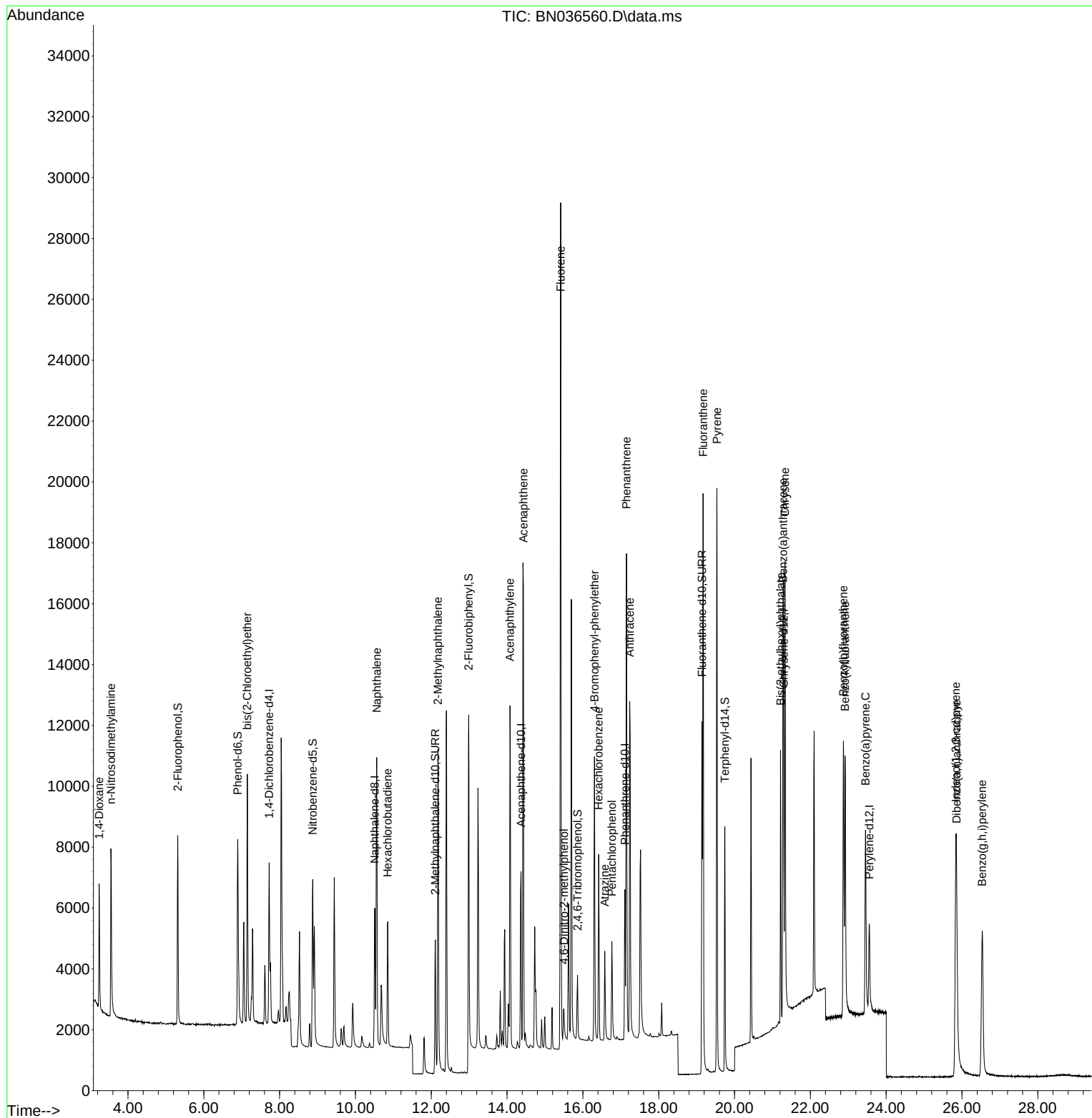
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng	0.00
29) Chrysene-d12	21.295	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

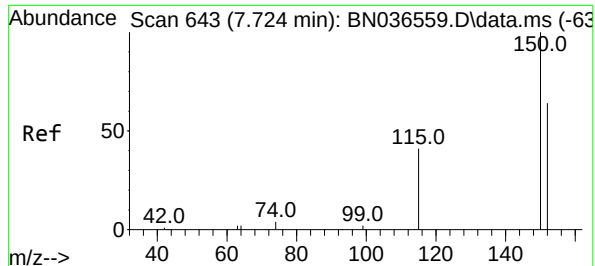
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

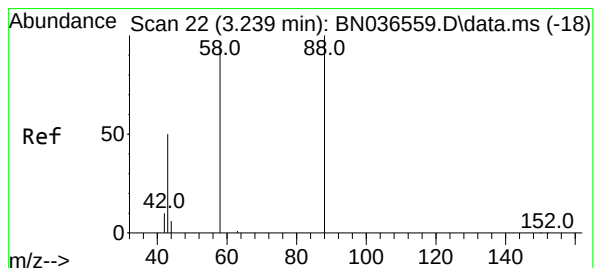
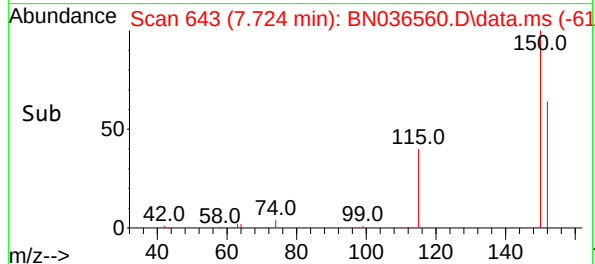
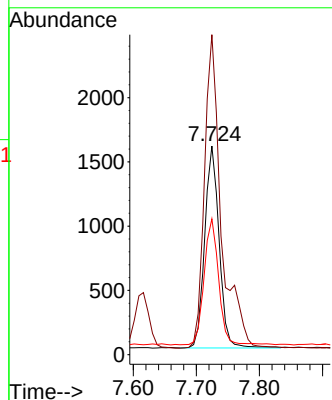
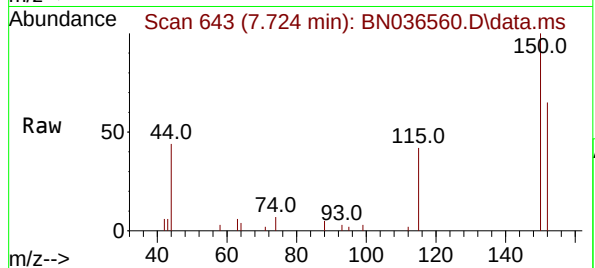




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

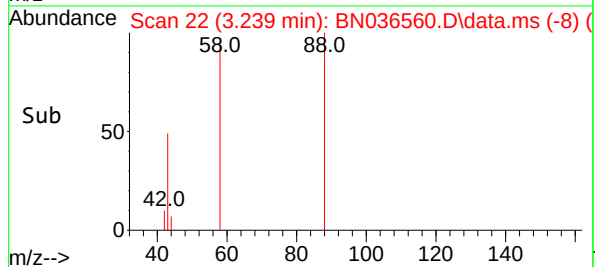
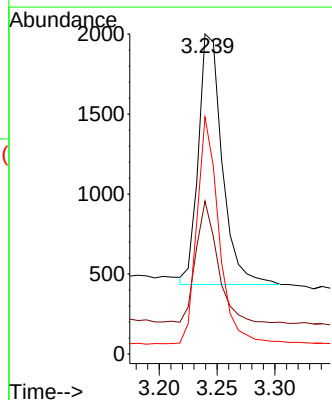
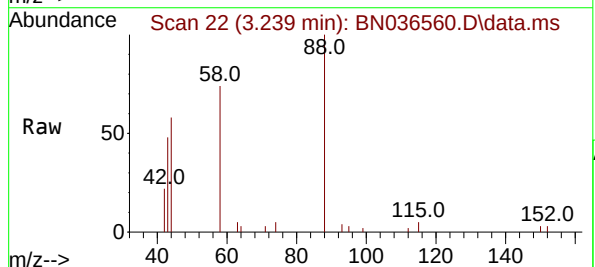
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

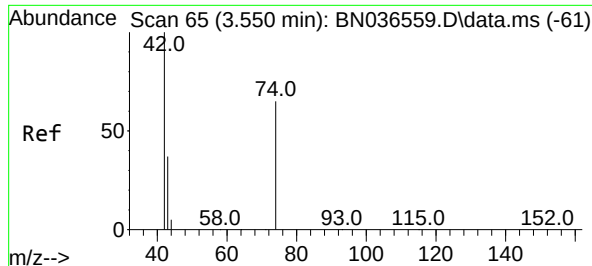
Tgt Ion:152 Resp: 2495
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.1 54.3 81.5



#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

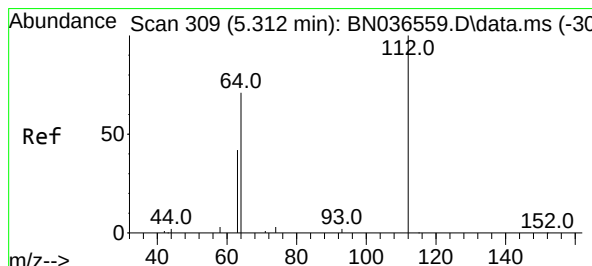
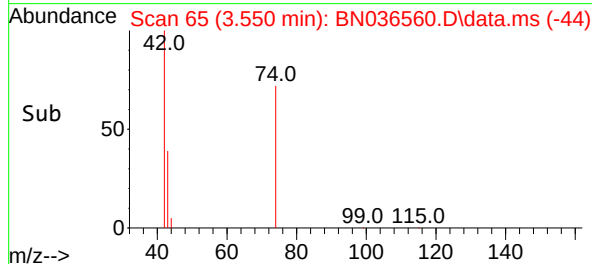
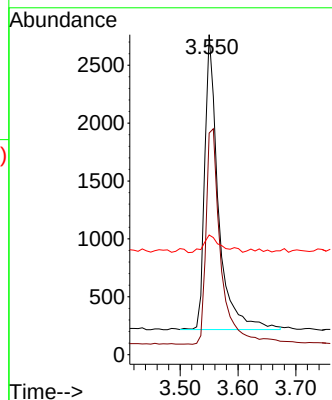
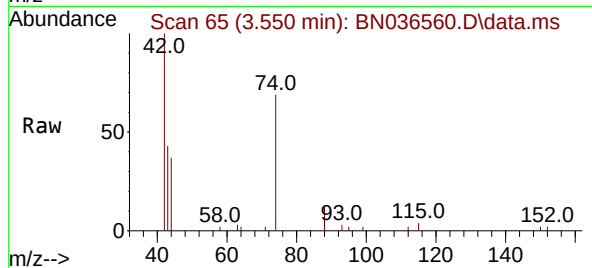




#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

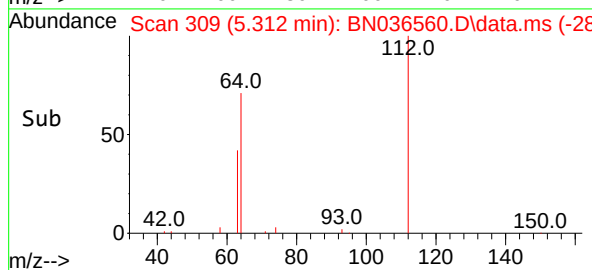
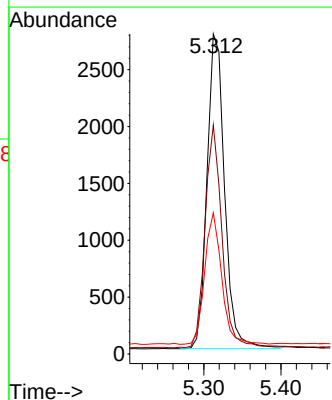
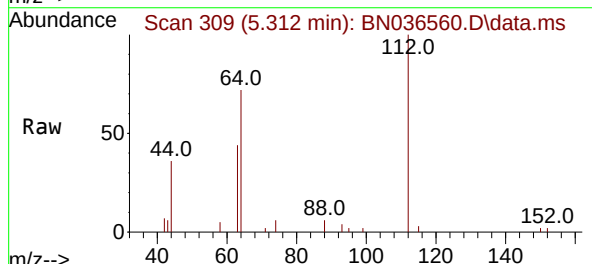
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

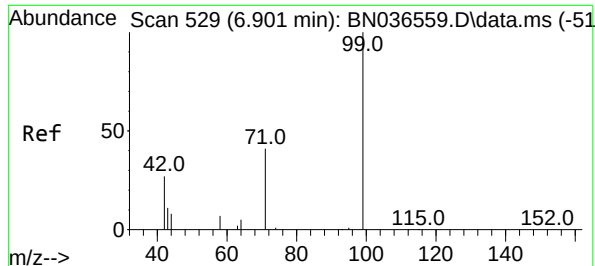
Tgt Ion: 42 Resp: 4197
Ion Ratio Lower Upper
42 100
74 79.3 60.6 90.8
44 7.4 6.3 9.5



#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

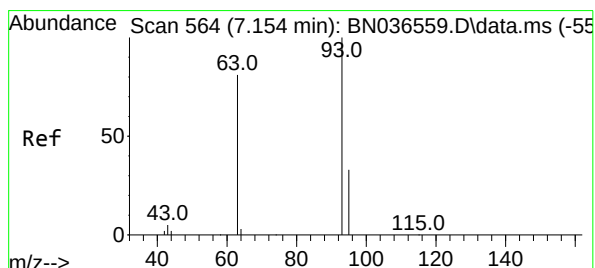
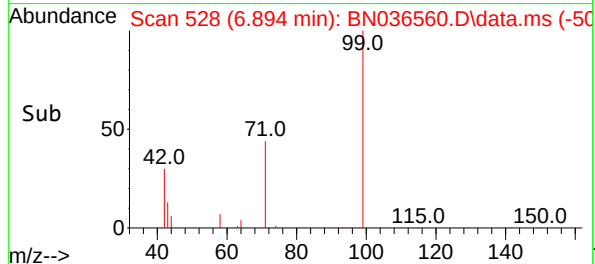
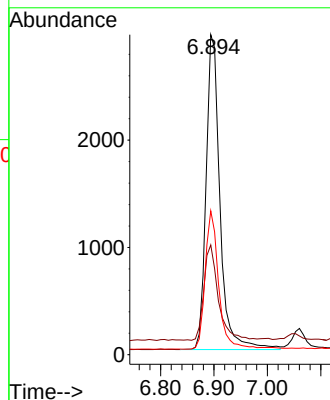
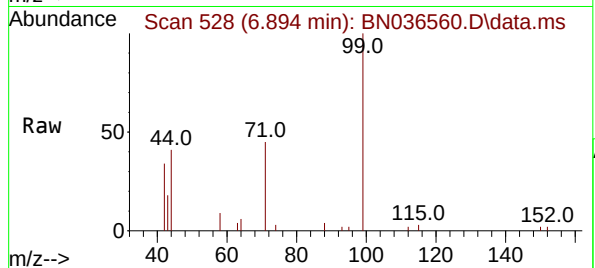




#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

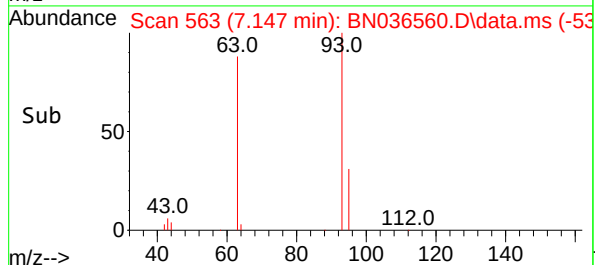
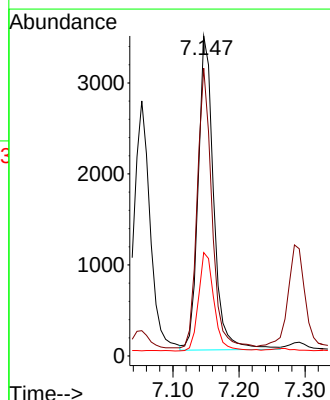
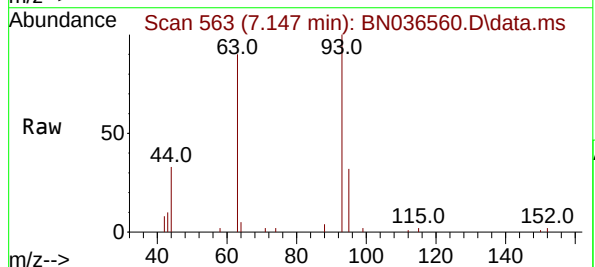
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

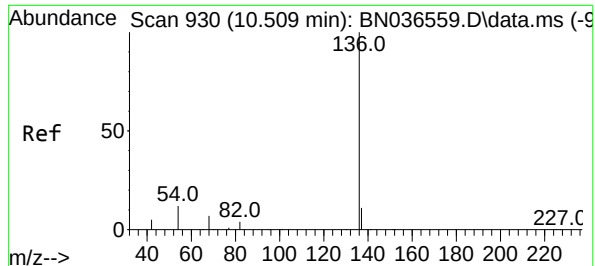
Tgt Ion: 99 Resp: 5324
Ion Ratio Lower Upper
99 100
42 31.3 26.5 39.7
71 42.6 34.1 51.1



#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

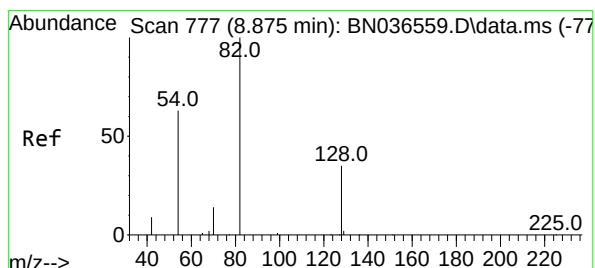
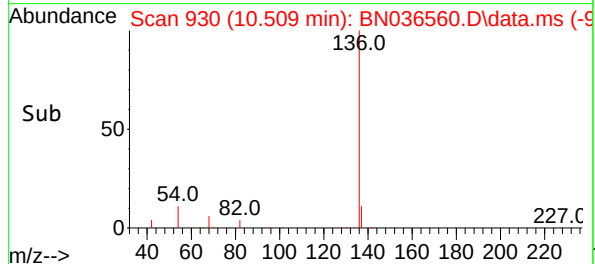
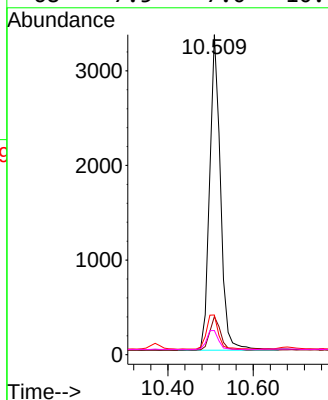
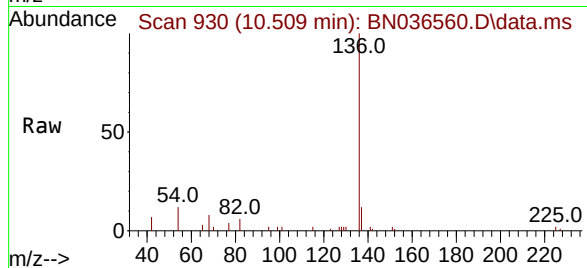




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

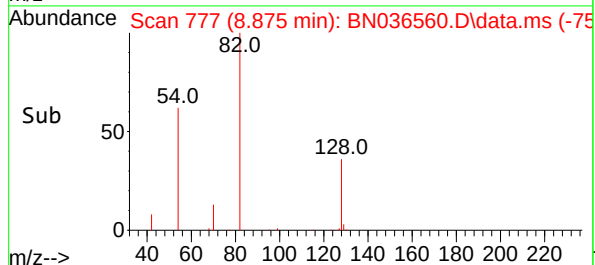
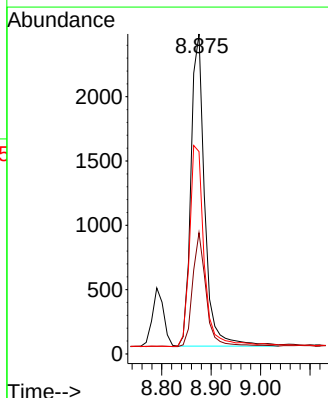
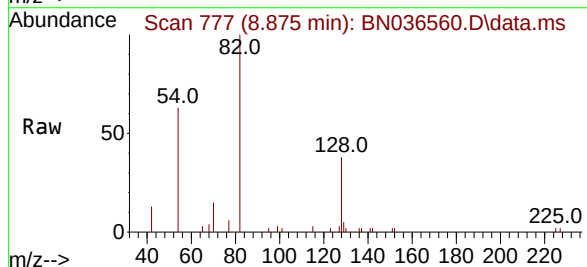
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

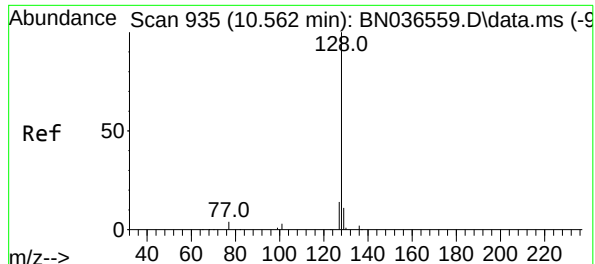
Tgt Ion:	136	Resp:	5884
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4



#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

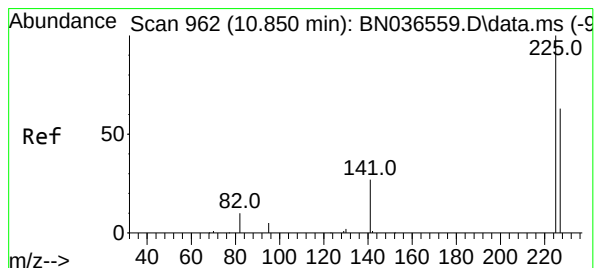
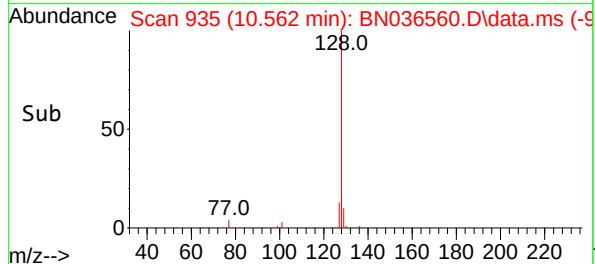
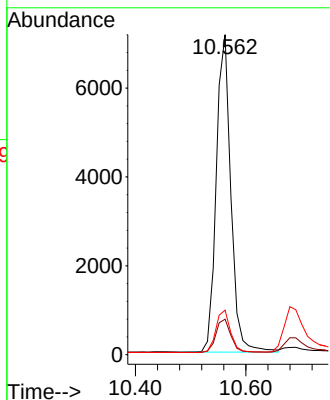
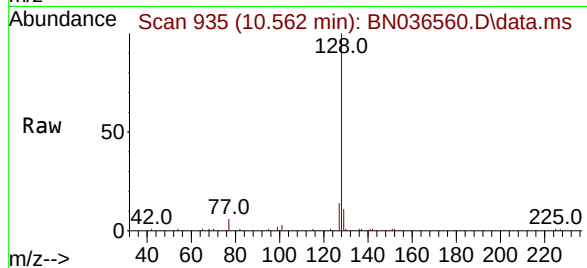




#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

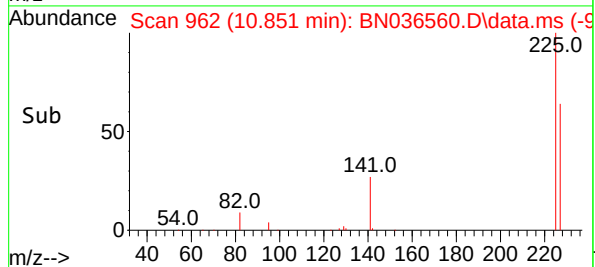
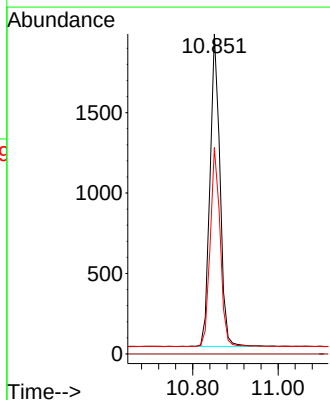
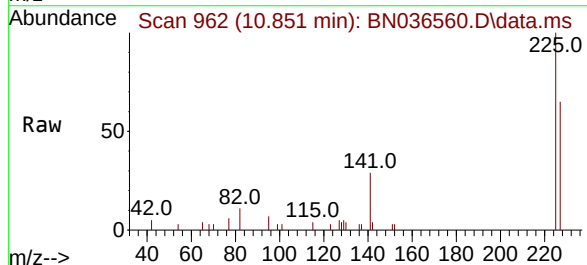
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

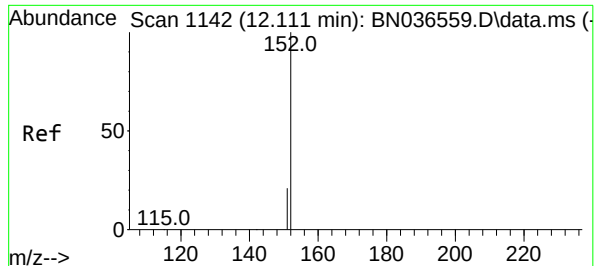
Tgt Ion	128	129	127
Resp:	13078		
Ion Ratio	100	11.1	13.9
Lower		9.8	11.8
Upper		14.6	17.8



#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	223	227
Resp:	3147		
Ion Ratio	100	0.0	63.7
Lower		0.0	51.8
Upper		0.0	77.8

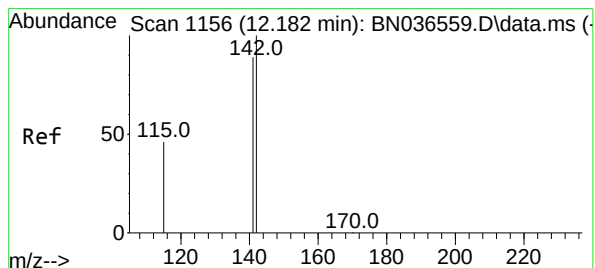
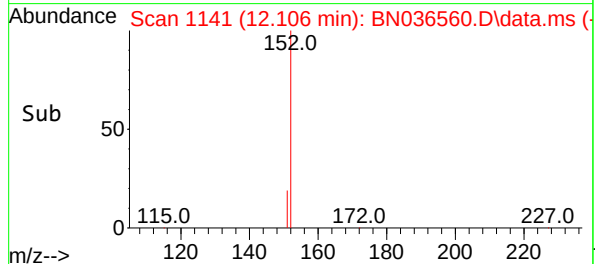
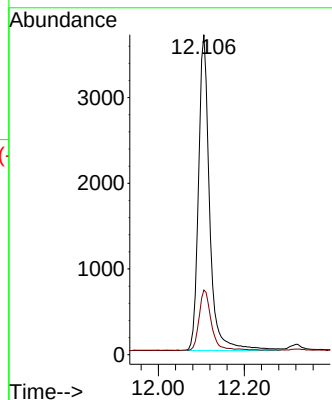
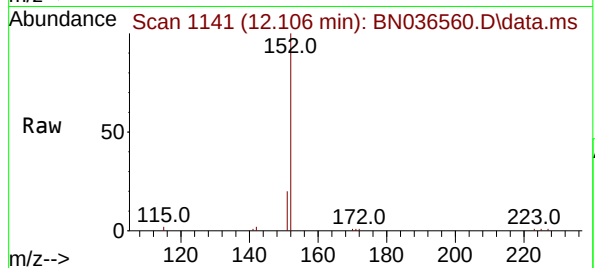




#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

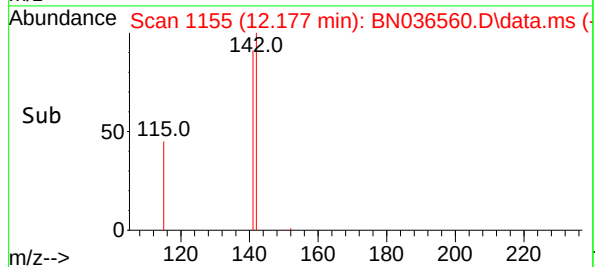
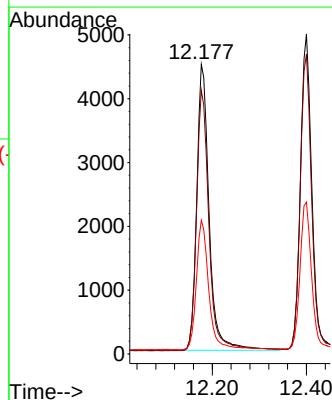
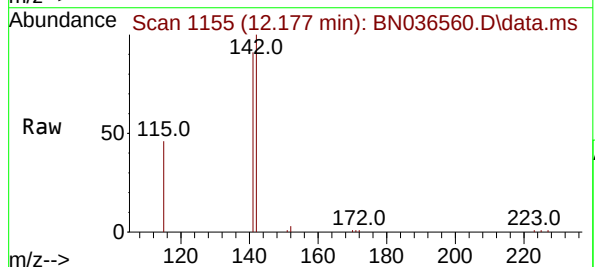
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

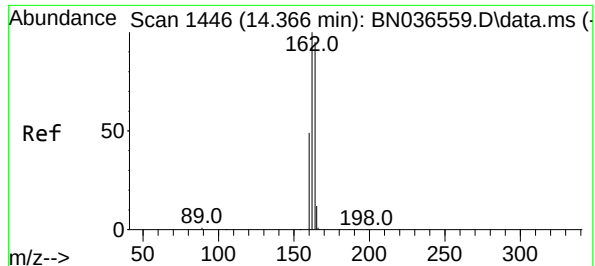
Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#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

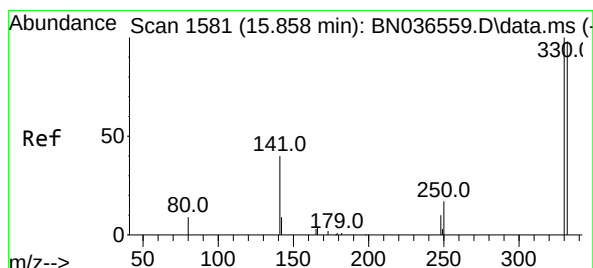
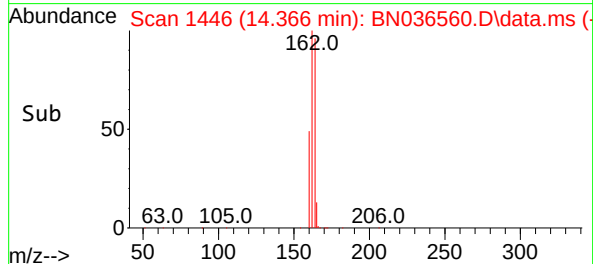
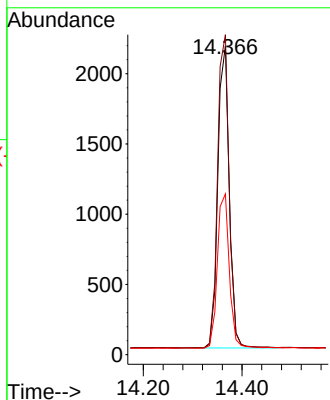
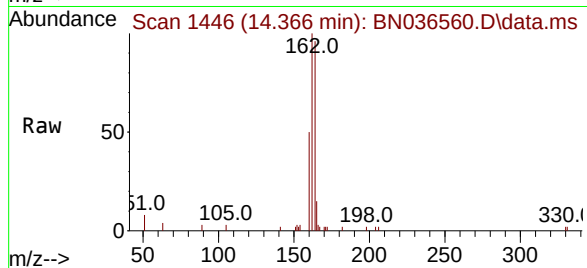




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

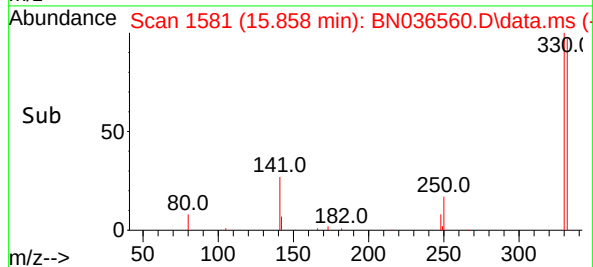
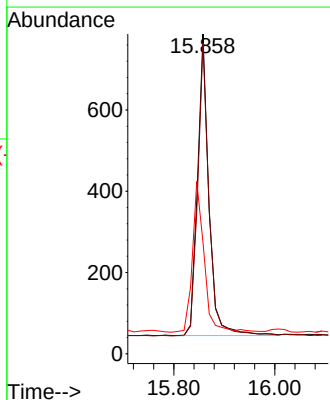
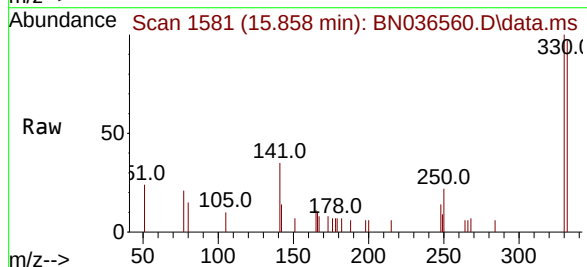
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

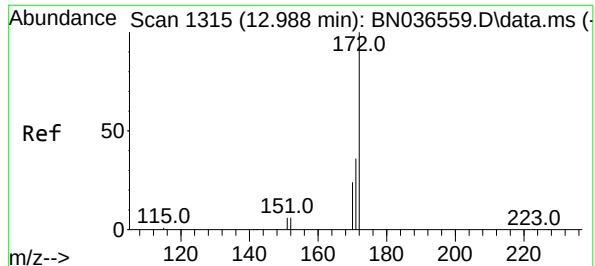
Tgt Ion	164	Resp	3456
Ion Ratio	Lower	Upper	
164	100		
162	103.6	84.2	126.2
160	52.1	42.2	63.2



#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	Lower	Upper	
330	100		
332	97.6	75.2	112.8
141	51.8	43.4	65.2





#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

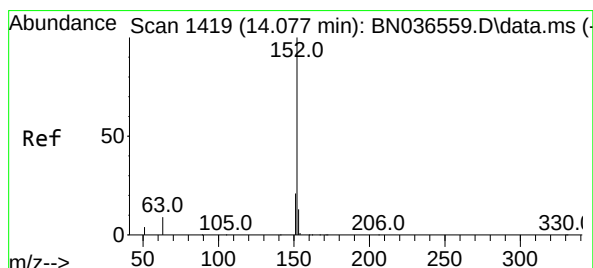
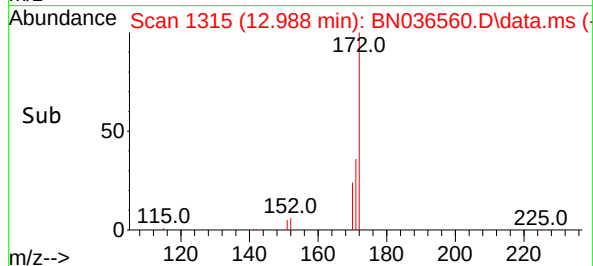
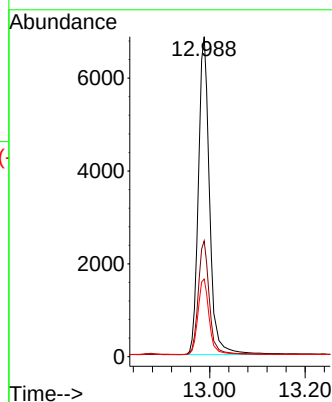
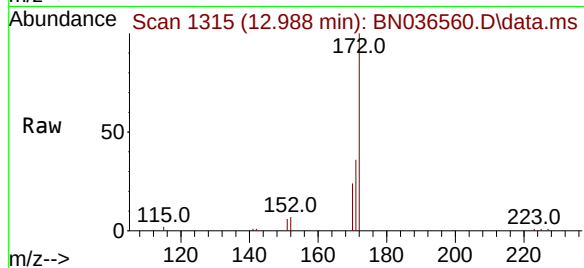
Tgt Ion:172 Resp: 16243

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

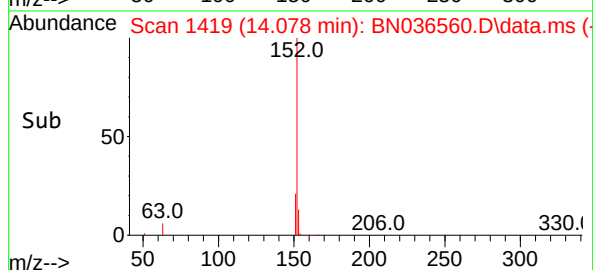
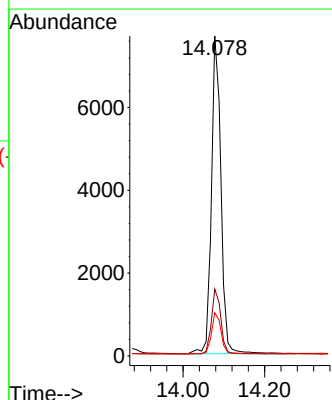
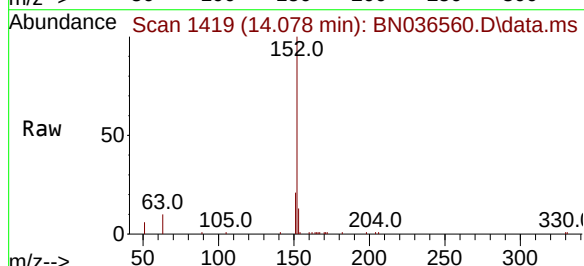
Tgt Ion:152 Resp: 12403

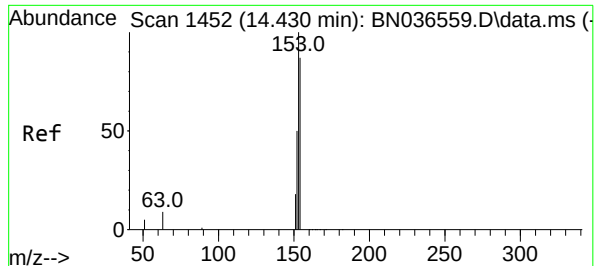
Ion Ratio Lower Upper

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

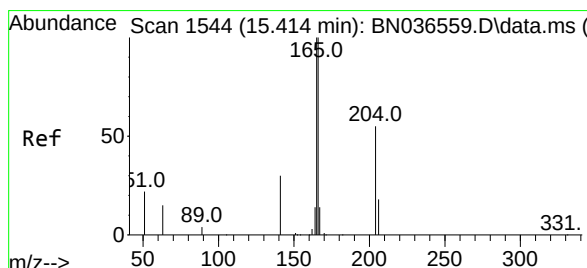
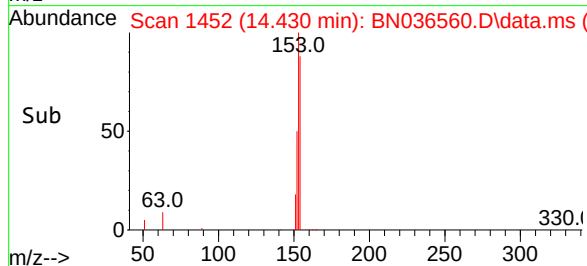
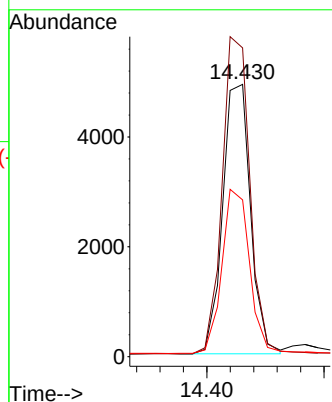
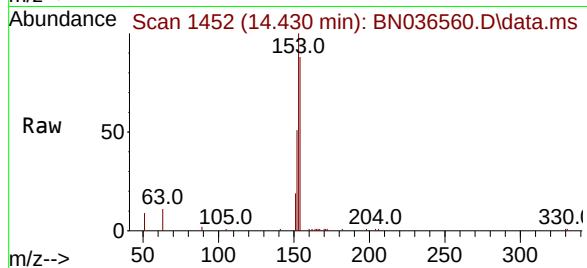
Tgt Ion:154 Resp: 8096

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

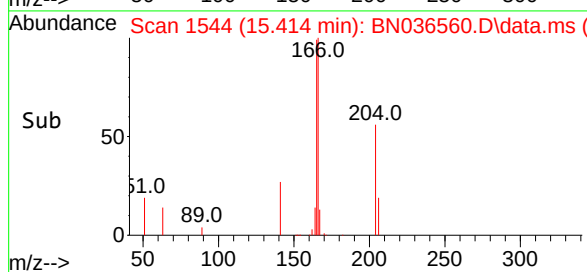
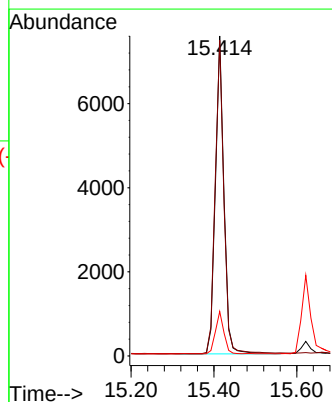
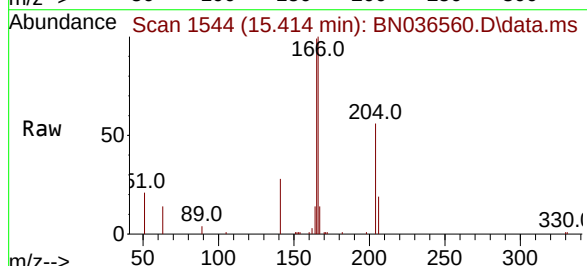
Tgt Ion:166 Resp: 11120

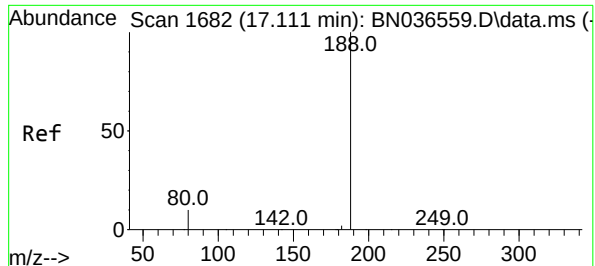
Ion Ratio Lower Upper

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

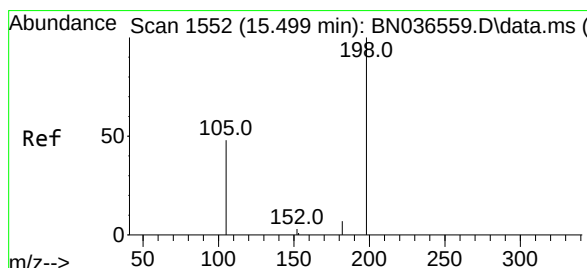
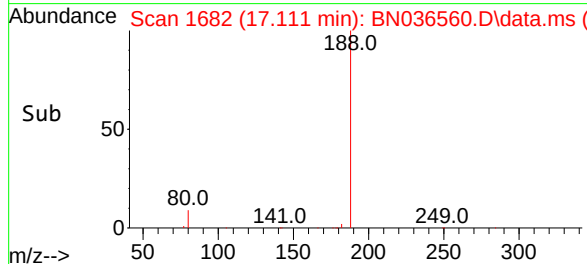
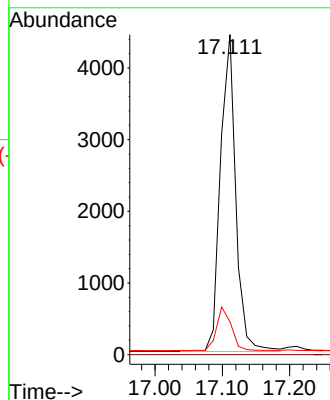
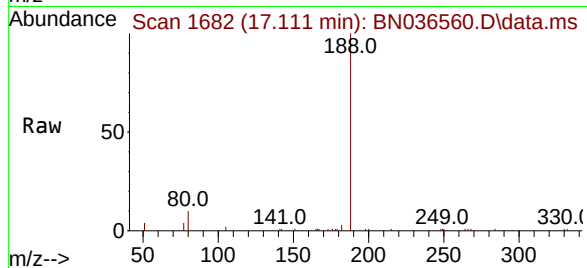
Tgt Ion:188 Resp: 6971

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

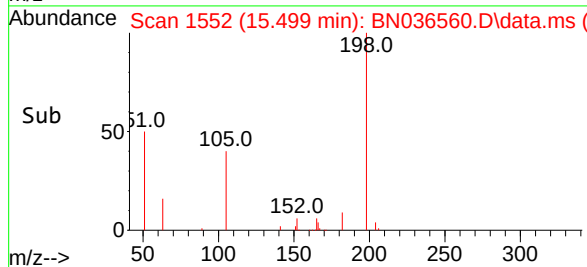
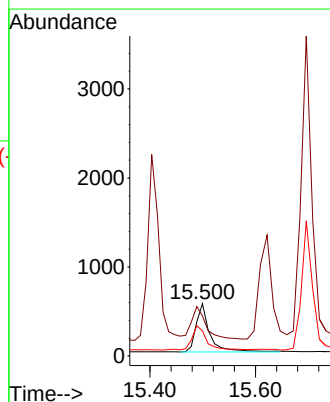
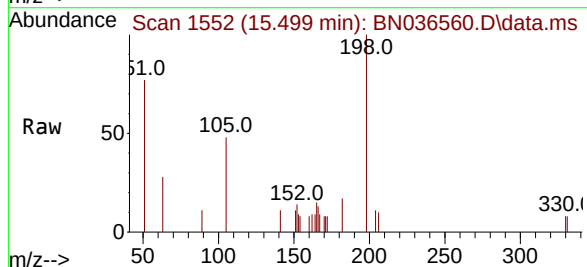
Tgt Ion:198 Resp: 1039

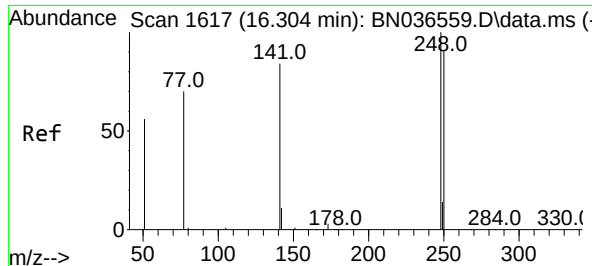
Ion Ratio Lower Upper

198 100

51 76.5 107.9 161.9#

105 48.1 56.2 84.2#

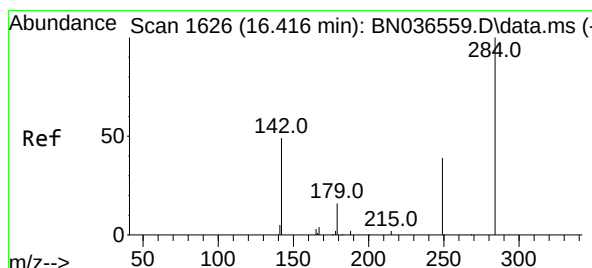
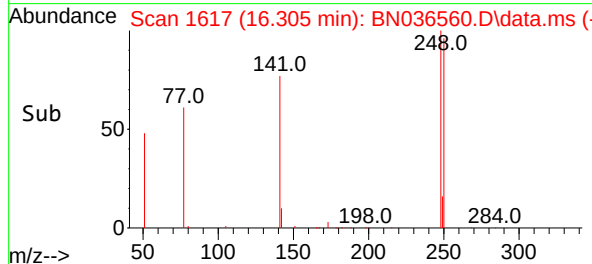
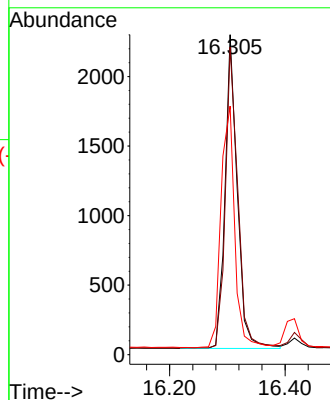
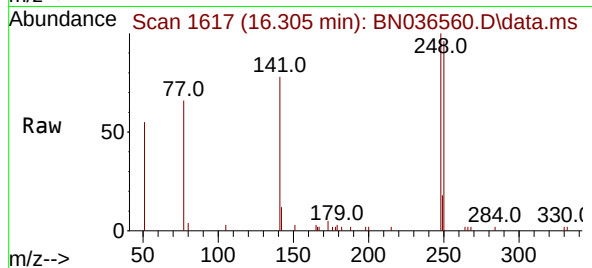




#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

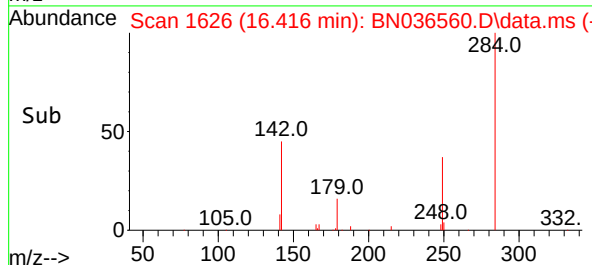
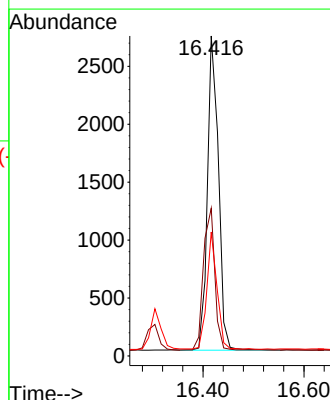
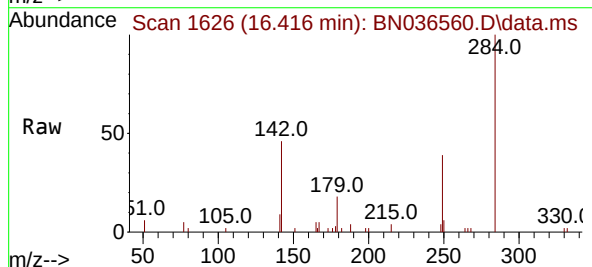
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

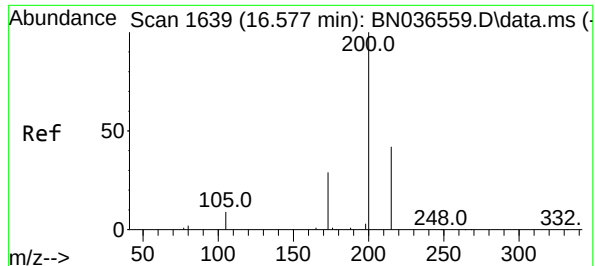
Tgt Ion:248 Resp: 3324
Ion Ratio Lower Upper
248 100
250 96.2 73.0 109.6
141 77.7 68.6 103.0



#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

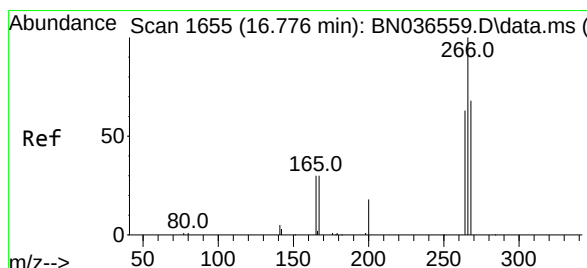
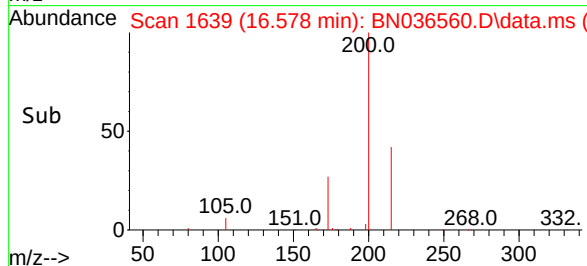
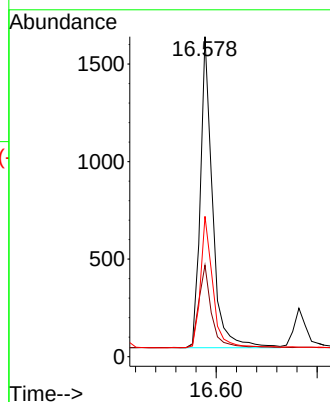
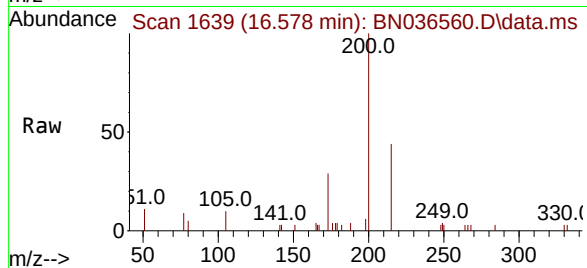
Tgt Ion:200 Resp: 2677

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

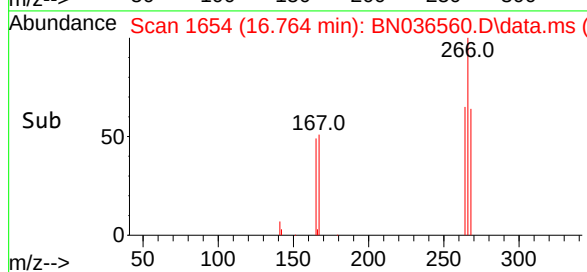
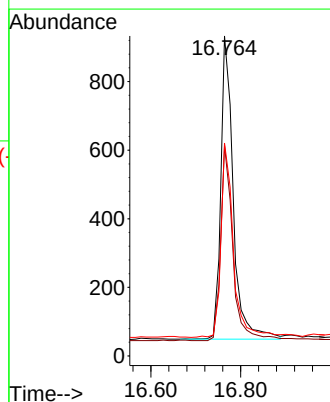
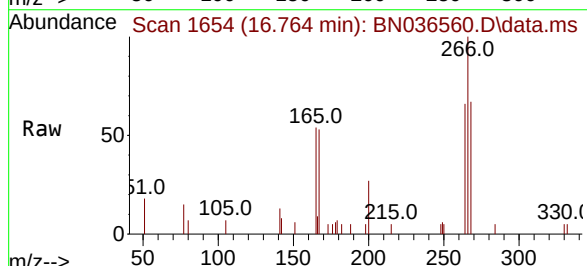
Tgt Ion:266 Resp: 1701

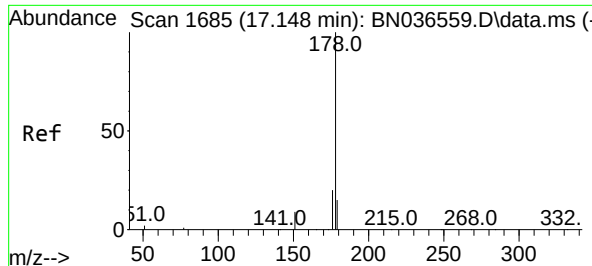
Ion Ratio Lower Upper

266 100

264 63.5 49.6 74.4

268 65.1 50.9 76.3

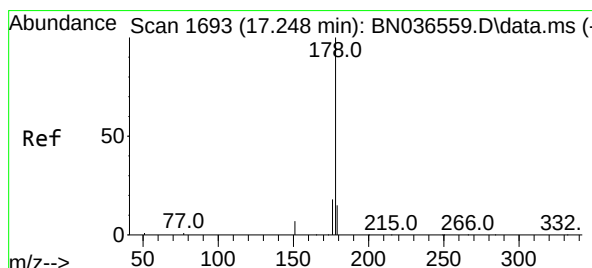
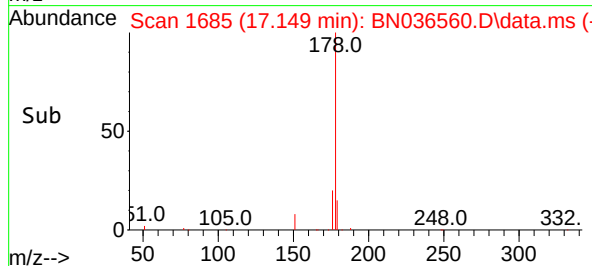
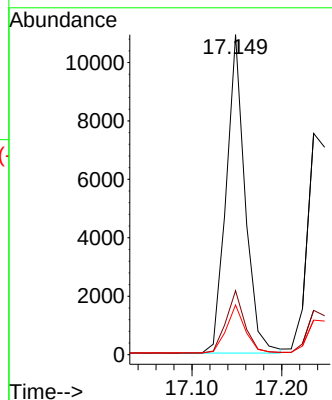
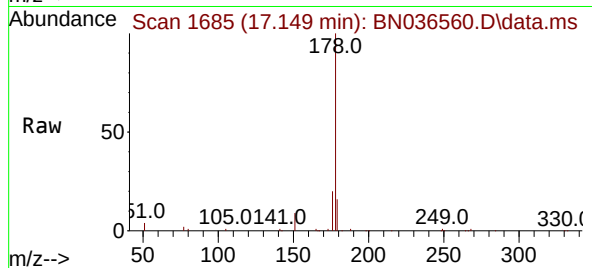




#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

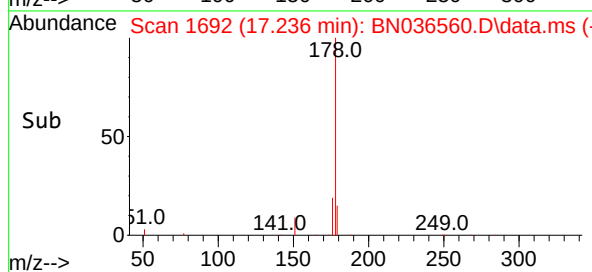
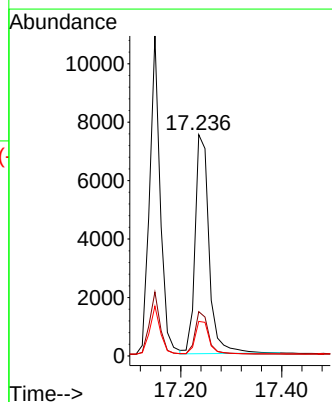
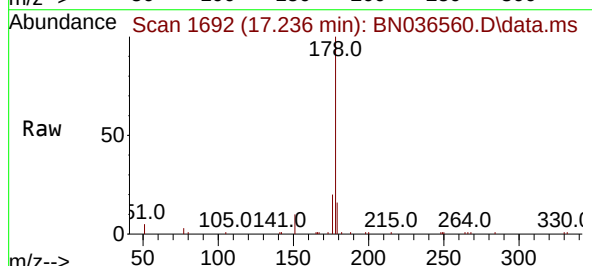
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

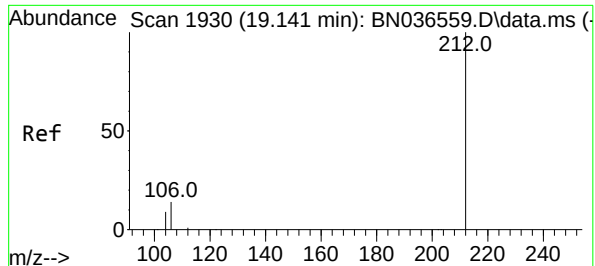
Tgt Ion:178 Resp: 15910
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.1 12.2 18.4



#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

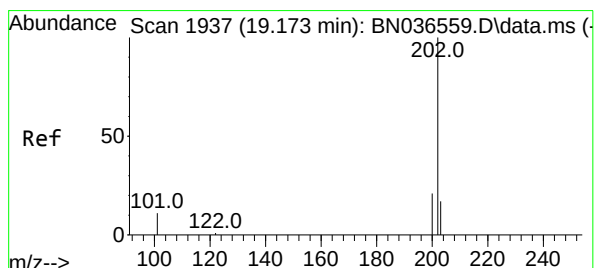
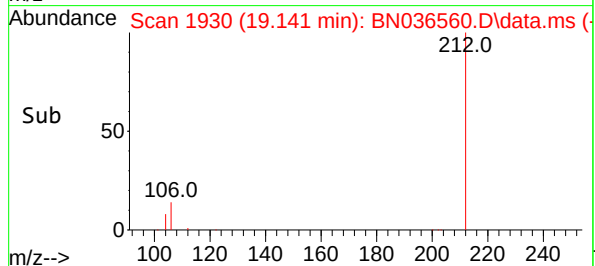
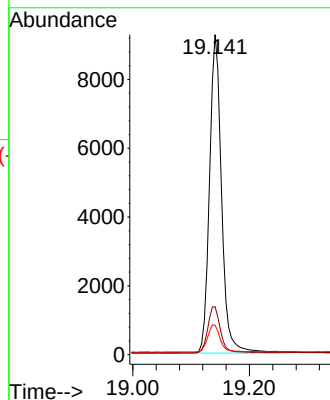
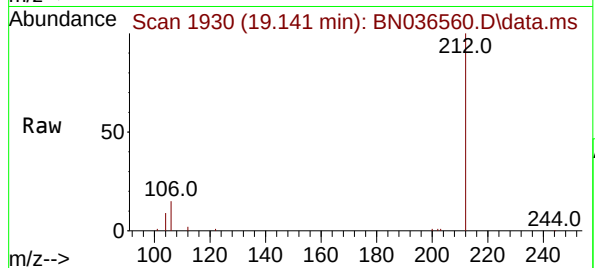
Tgt Ion:212 Resp: 13330

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

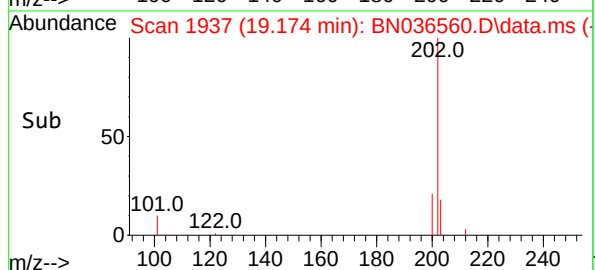
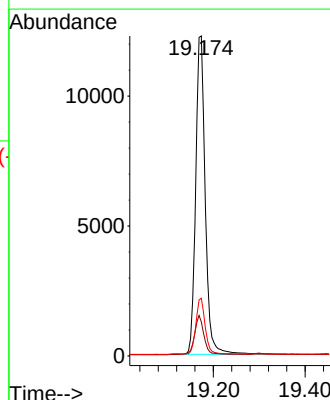
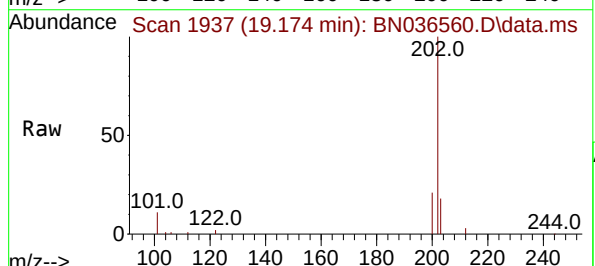
Tgt Ion:202 Resp: 17738

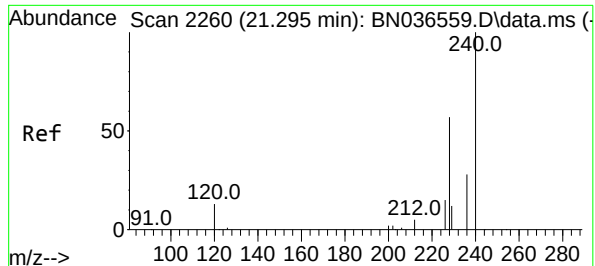
Ion Ratio Lower Upper

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

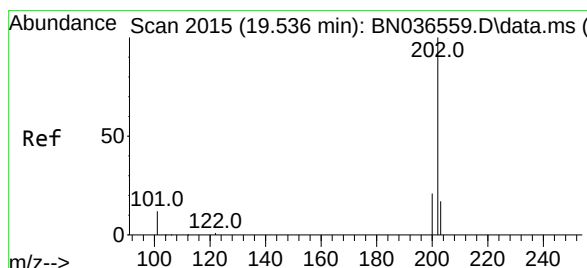
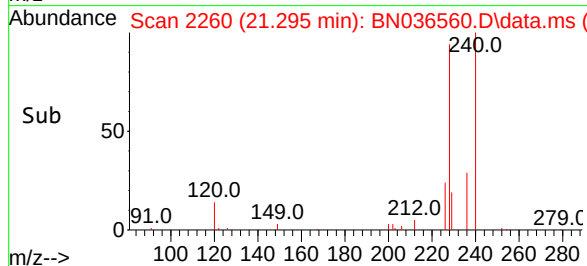
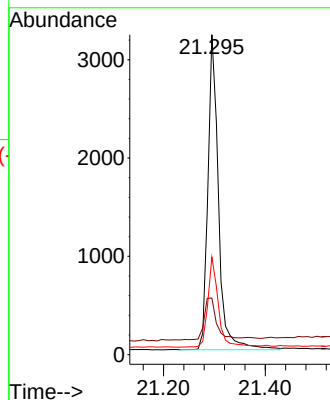
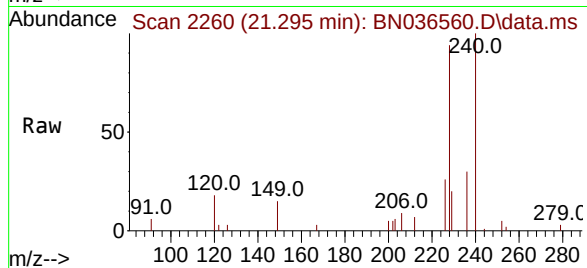
Tgt Ion:240 Resp: 4636

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

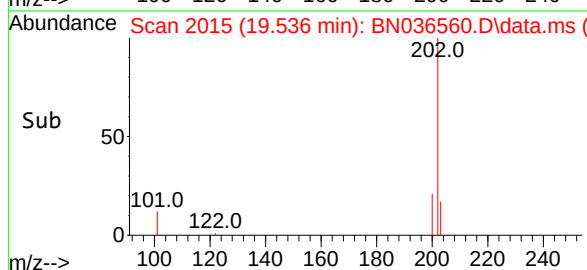
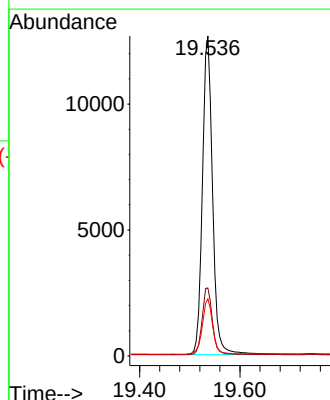
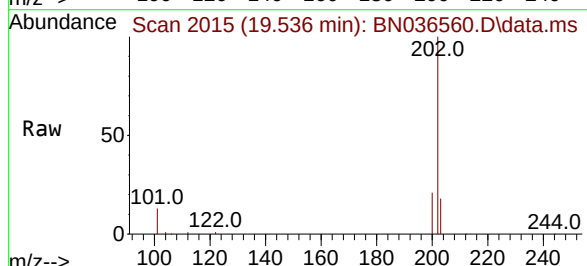
Tgt Ion:202 Resp: 17714

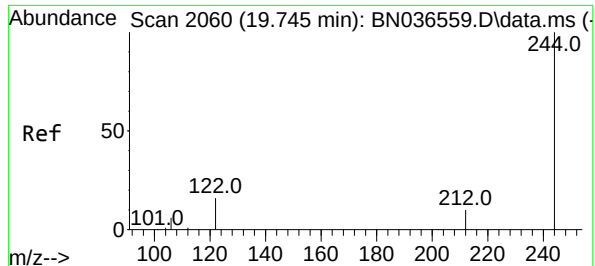
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.5 14.1 21.1

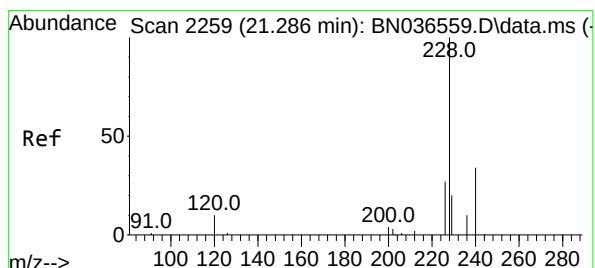
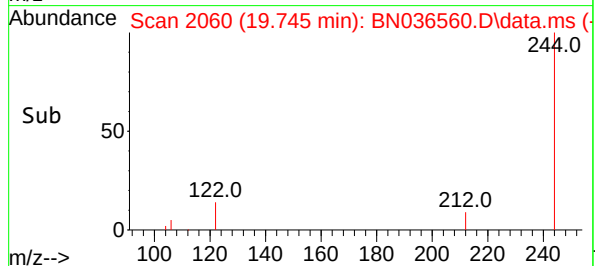
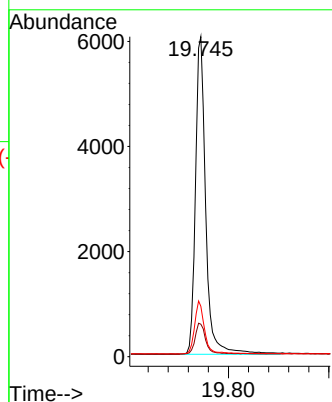
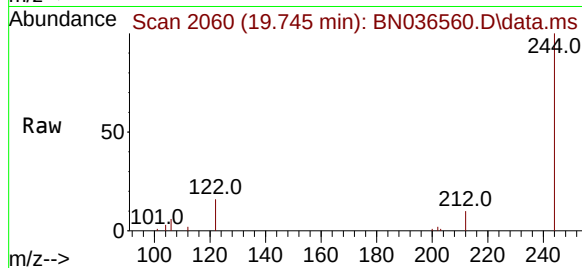




#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

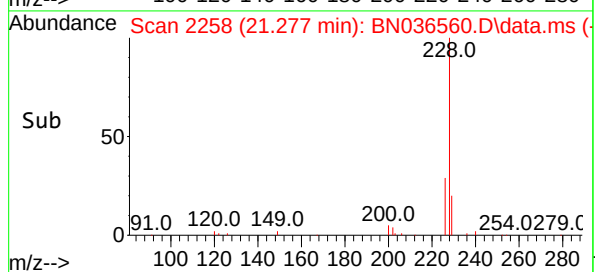
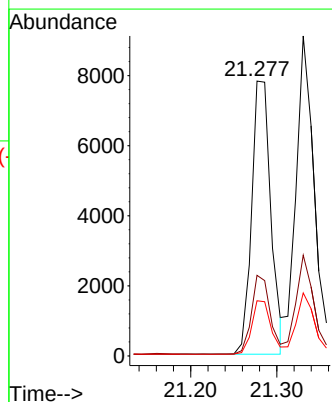
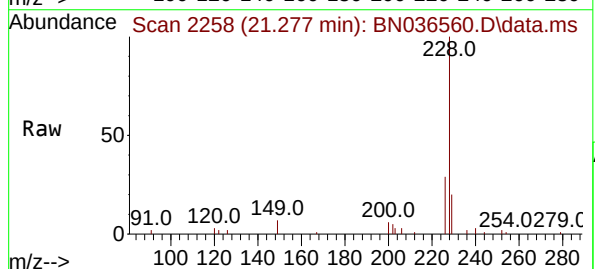
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

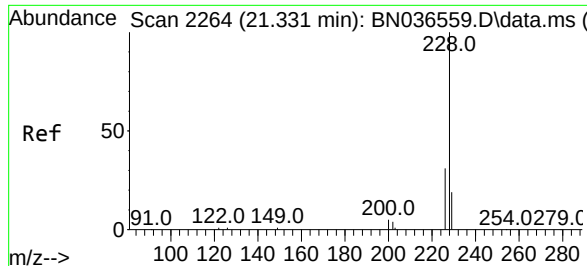
Tgt Ion:244 Resp: 8571
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 15.8 13.9 20.9



#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 :

SSTDICC0.8

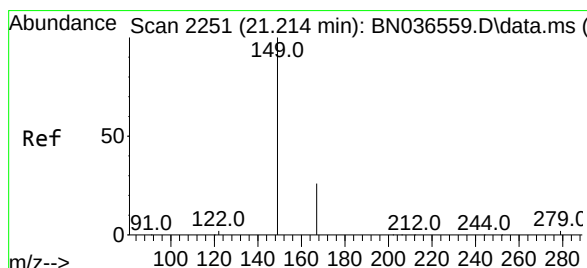
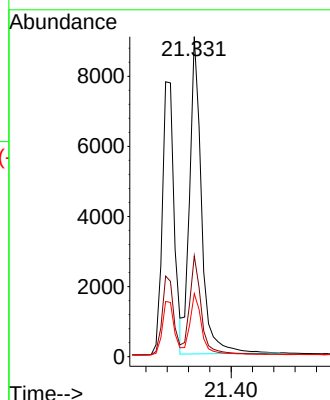
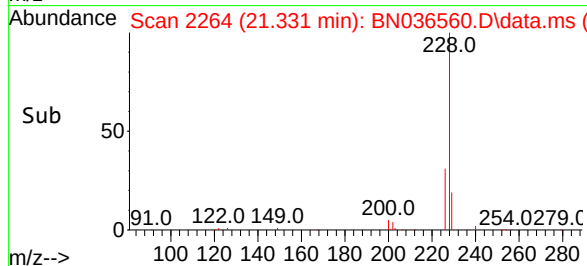
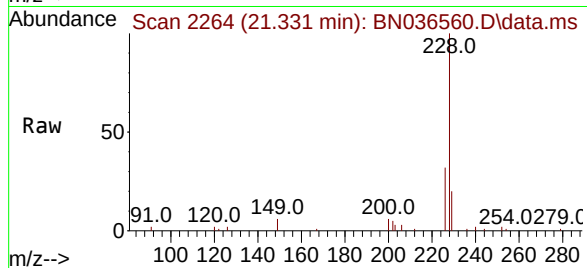
Tgt Ion:228 Resp: 13974

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

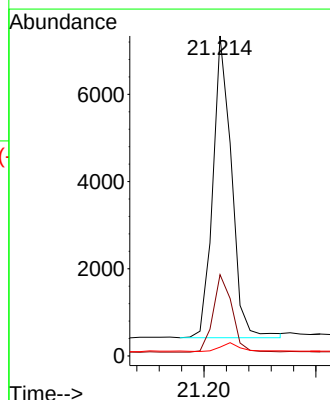
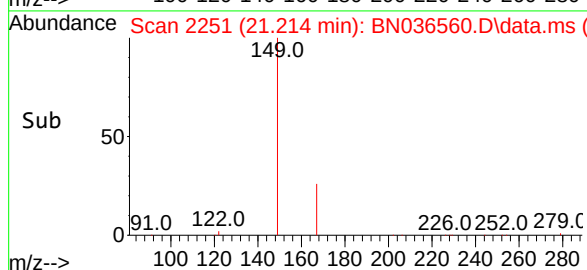
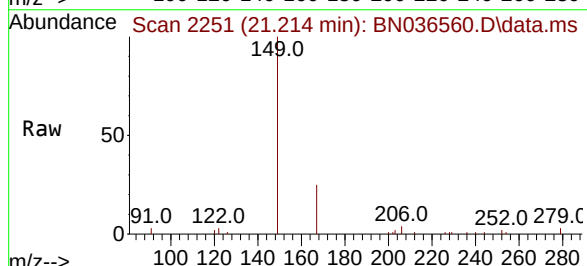
Tgt Ion:149 Resp: 8021

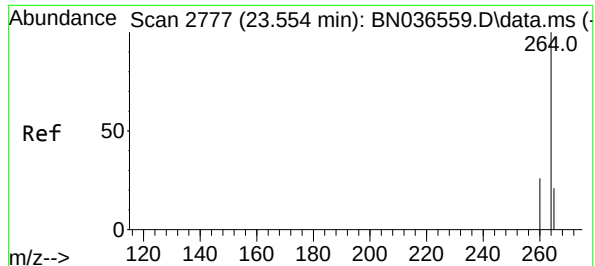
Ion Ratio Lower Upper

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 :

SSTDICC0.8

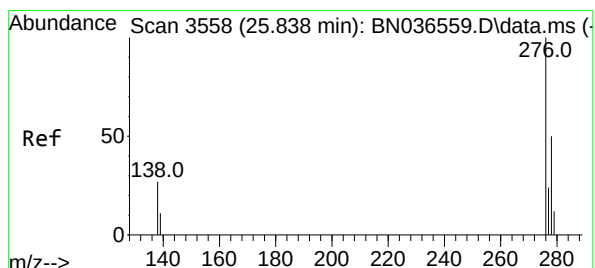
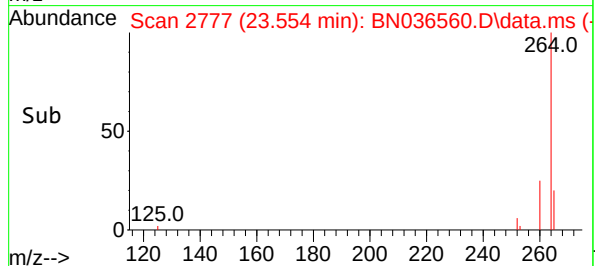
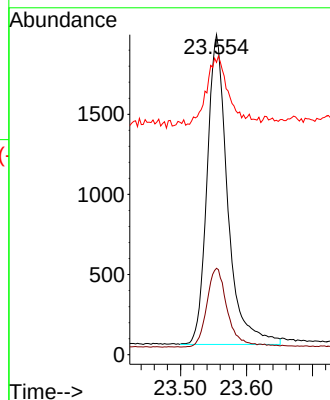
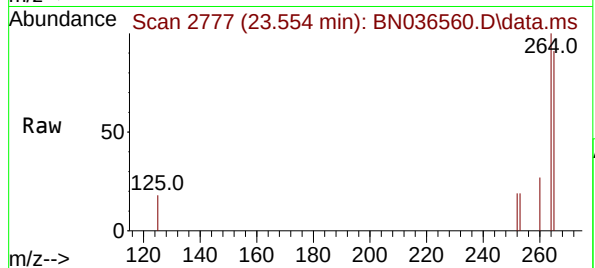
Tgt Ion:264 Resp: 4198

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

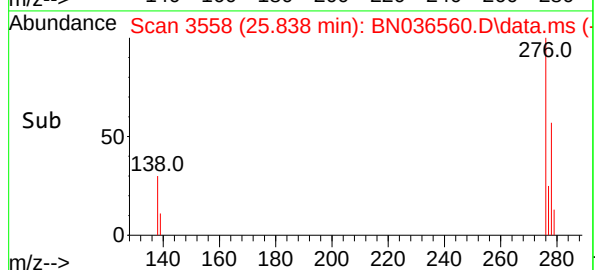
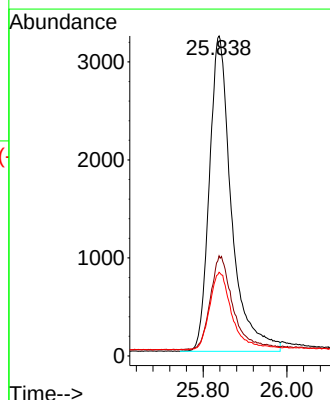
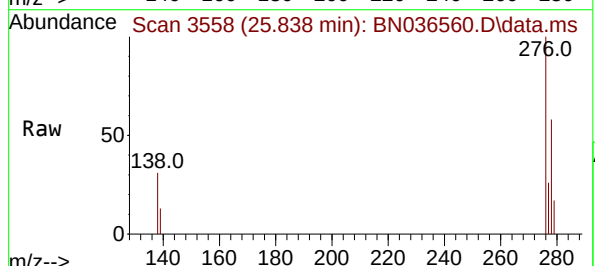
Tgt Ion:276 Resp: 11785

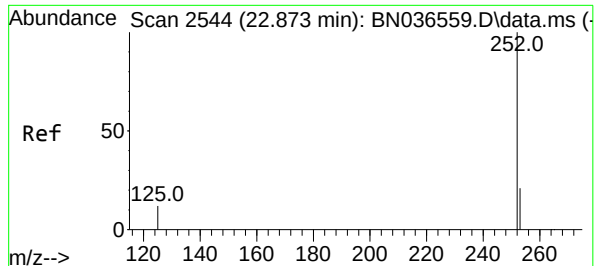
Ion Ratio Lower Upper

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

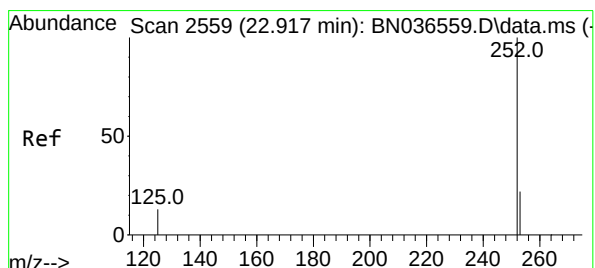
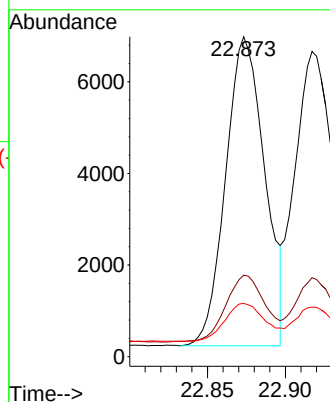
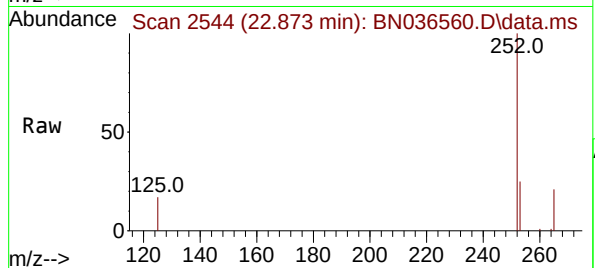
Tgt Ion:252 Resp: 11771

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

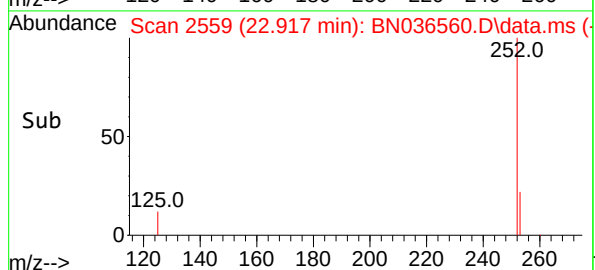
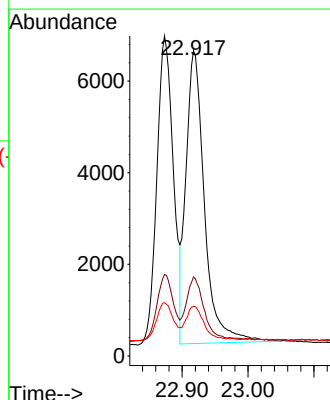
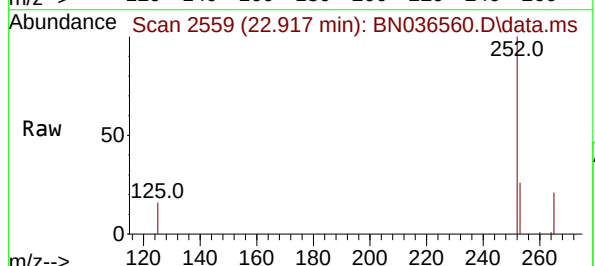
Tgt Ion:252 Resp: 12432

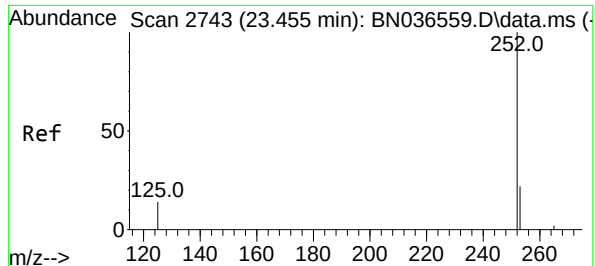
Ion Ratio Lower Upper

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

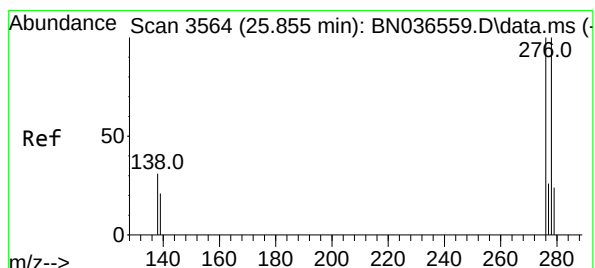
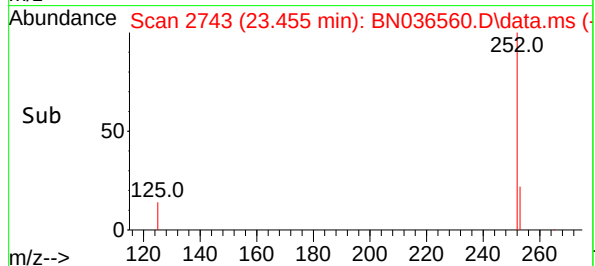
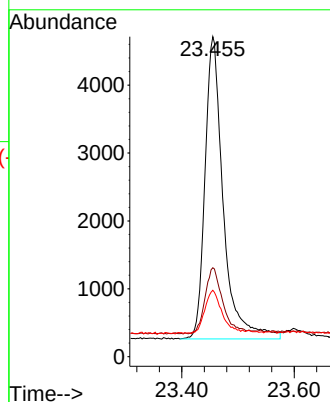
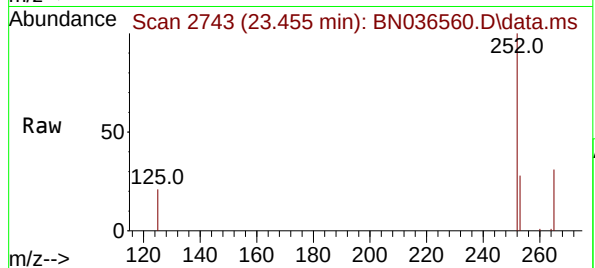
Tgt Ion:252 Resp: 10036

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

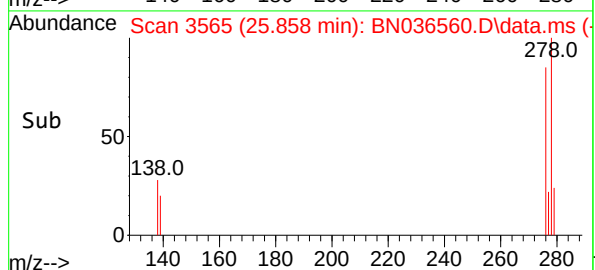
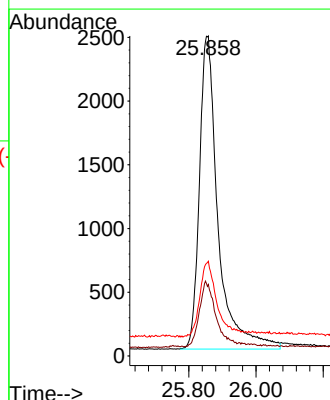
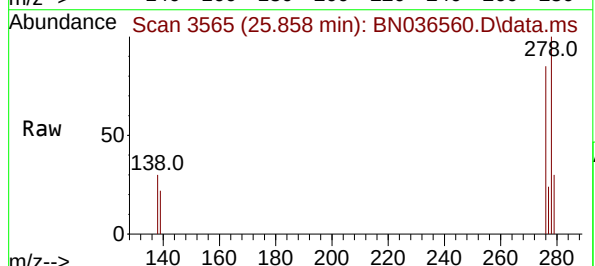
Tgt Ion:278 Resp: 9450

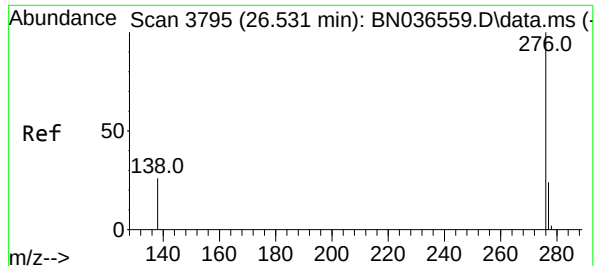
Ion Ratio Lower Upper

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

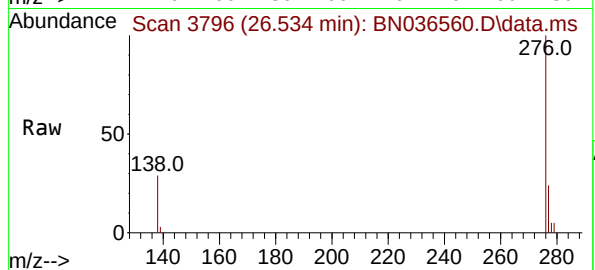
Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



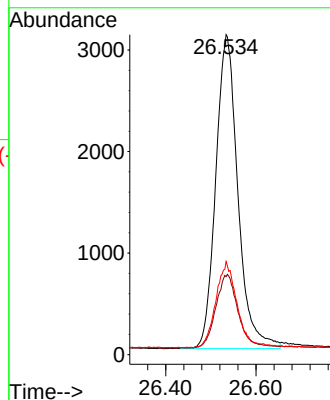
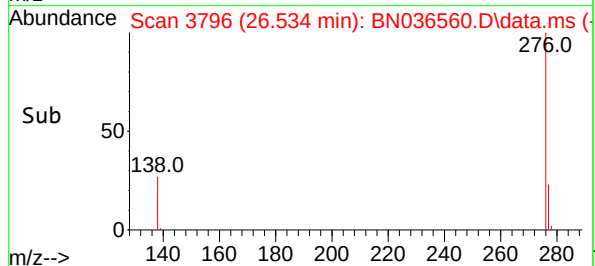
Tgt Ion:276 Resp: 10494

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

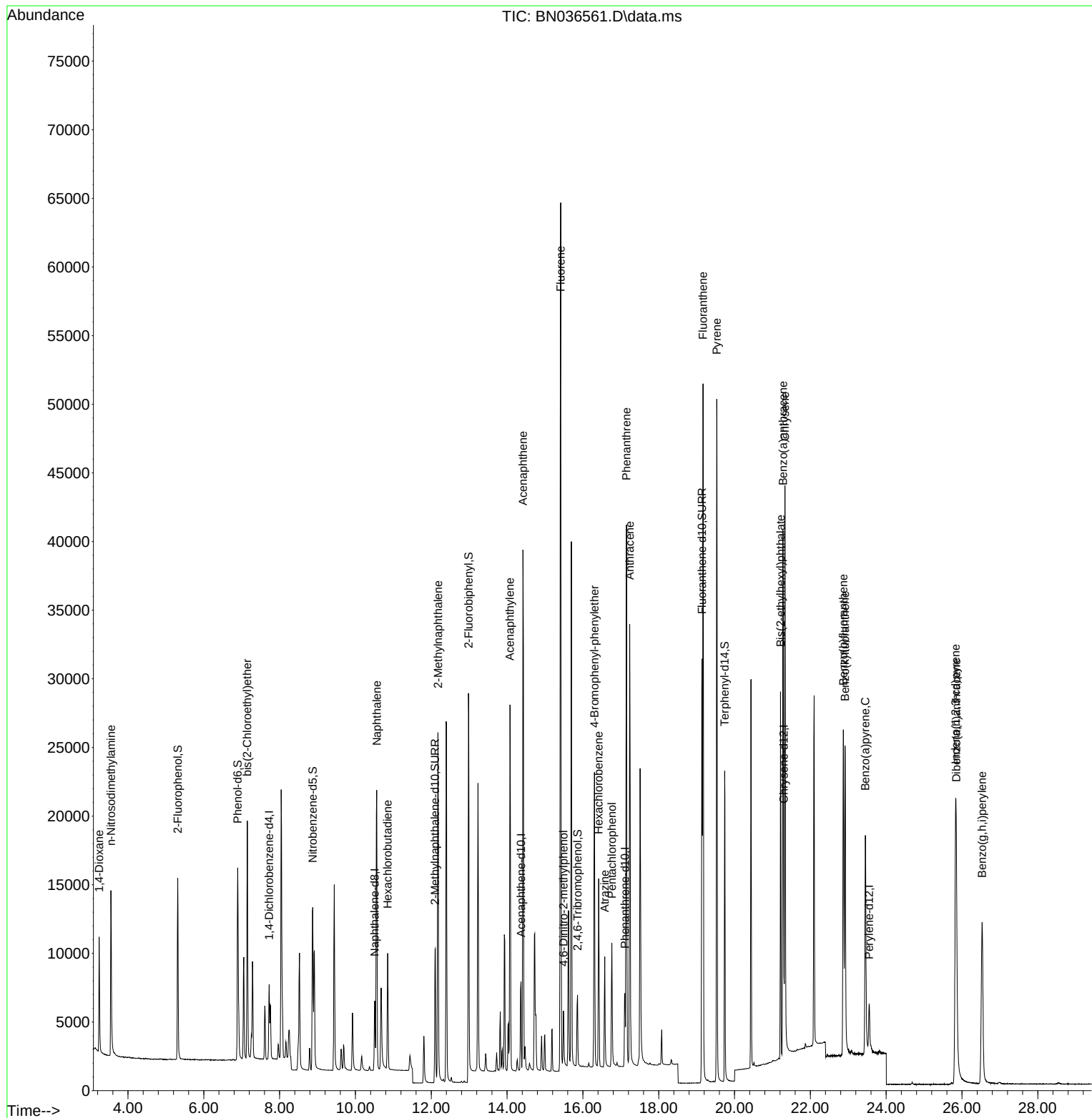
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng	0.00
29) Chrysene-d12	21.295	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

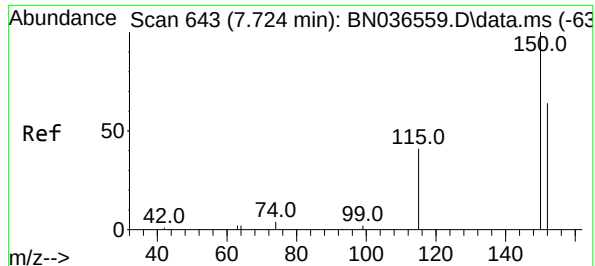
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

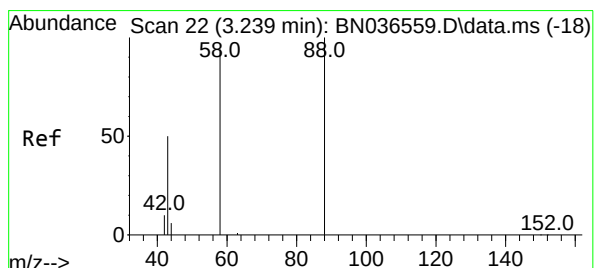
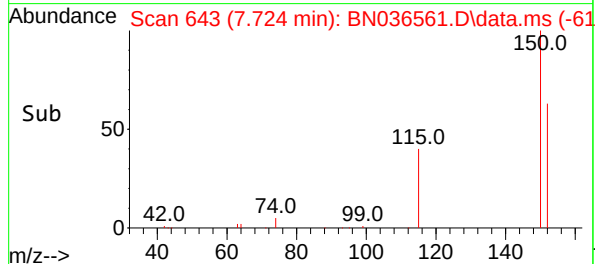
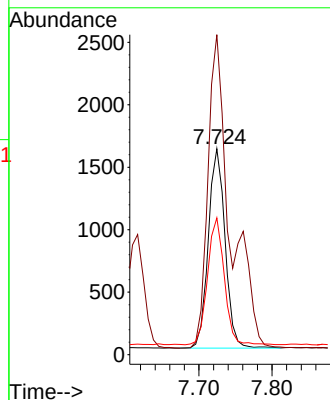
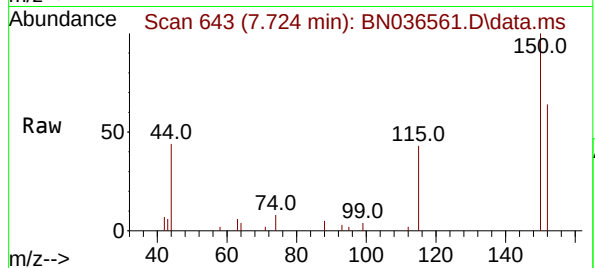




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

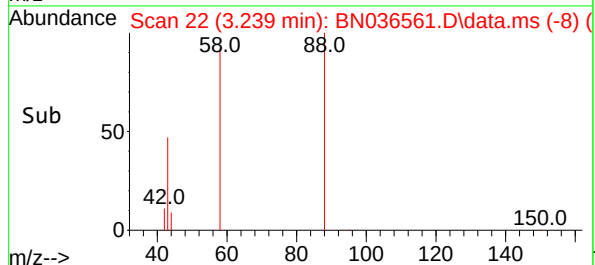
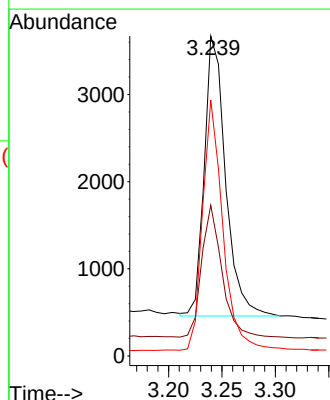
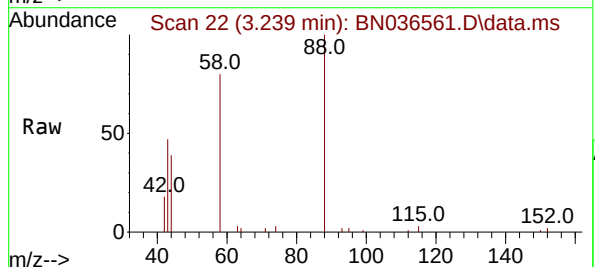
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

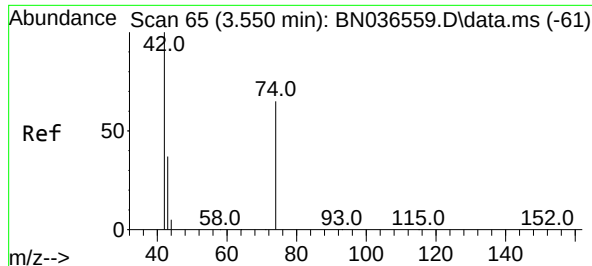
Tgt Ion:152 Resp: 2537
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 66.4 54.3 81.5



#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

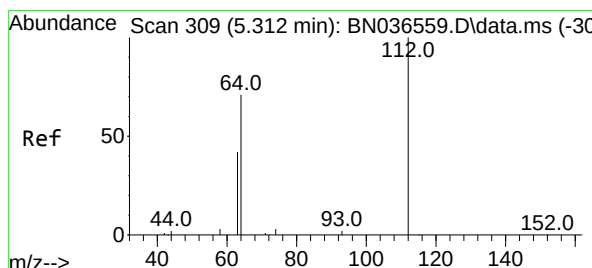
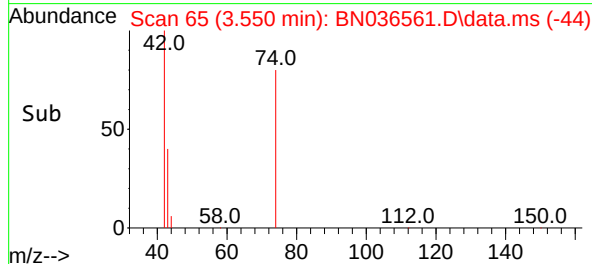
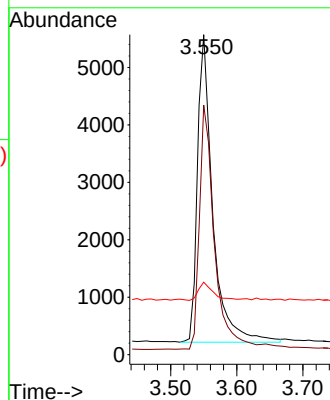
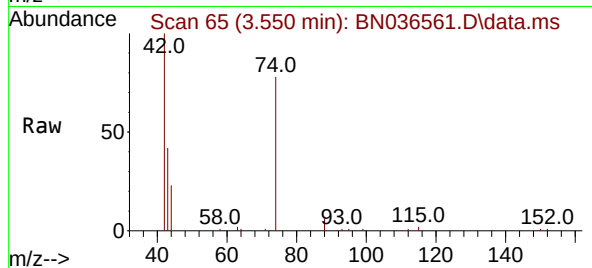




#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

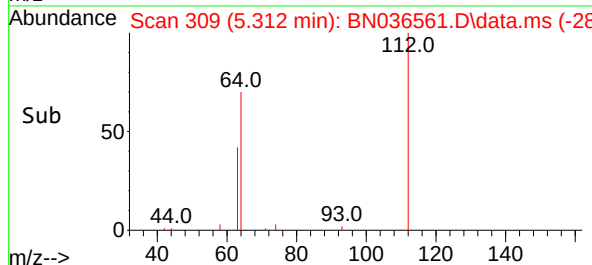
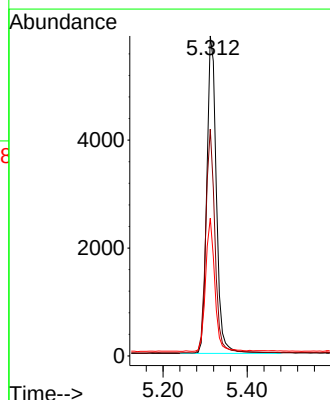
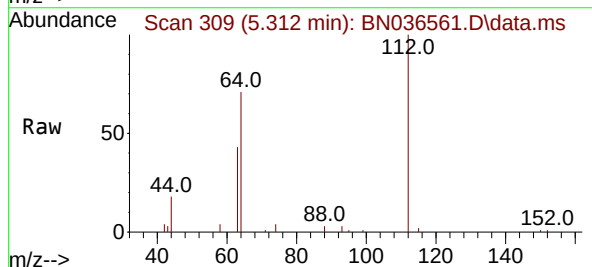
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

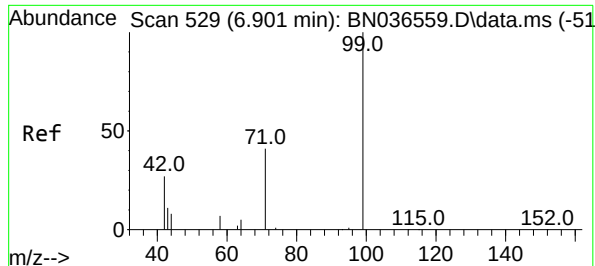
Tgt Ion: 42 Resp: 8625
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 5.8 6.3 9.5#



#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

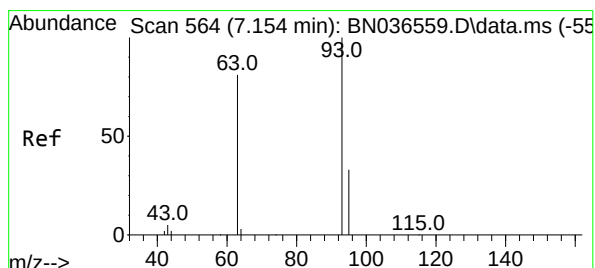
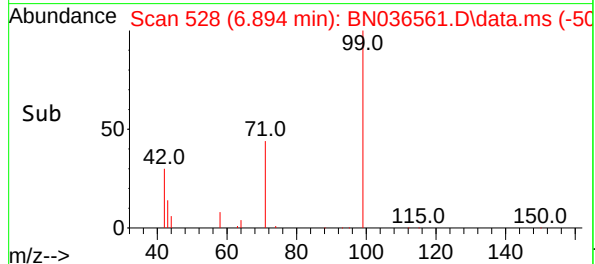
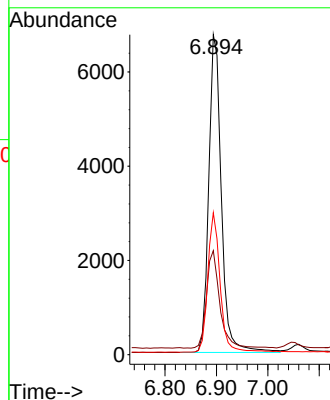
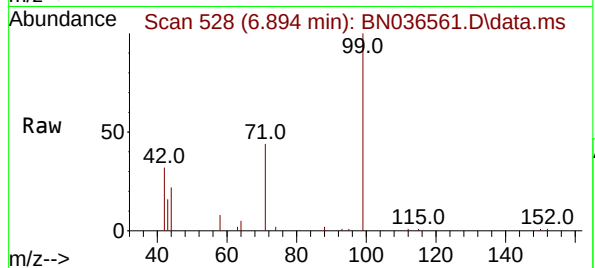




#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

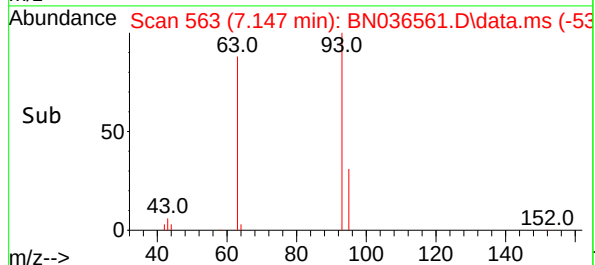
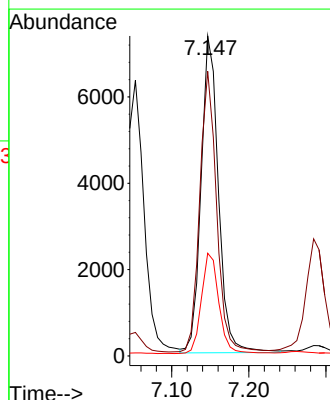
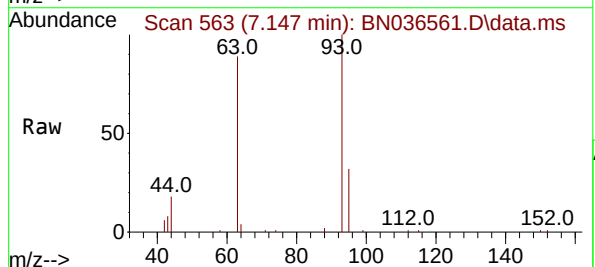
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

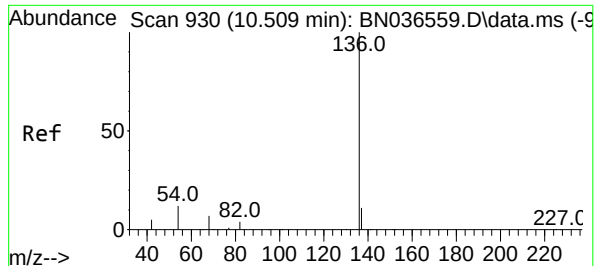
Tgt Ion: 99 Resp: 11493
Ion Ratio Lower Upper
99 100
42 32.6 26.5 39.7
71 43.3 34.1 51.1



#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

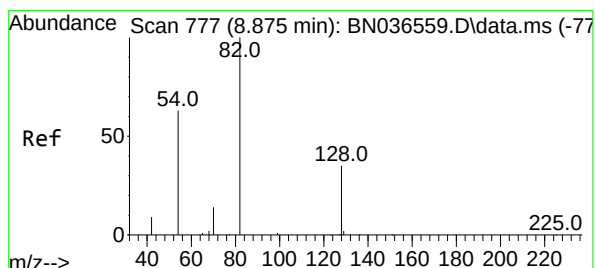
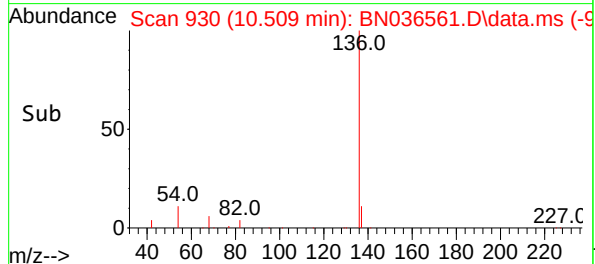
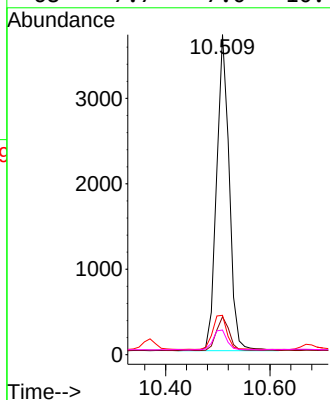
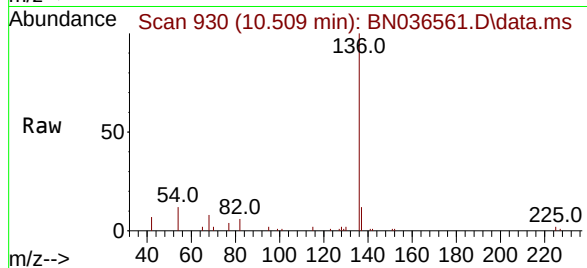




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

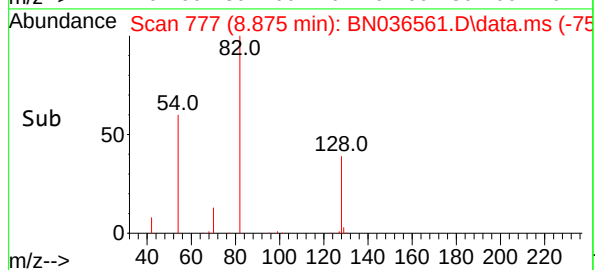
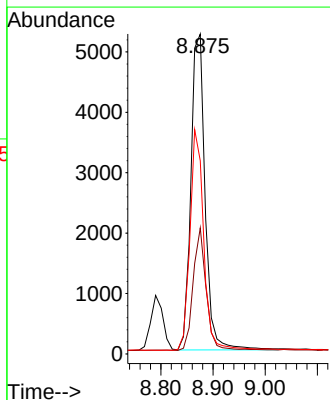
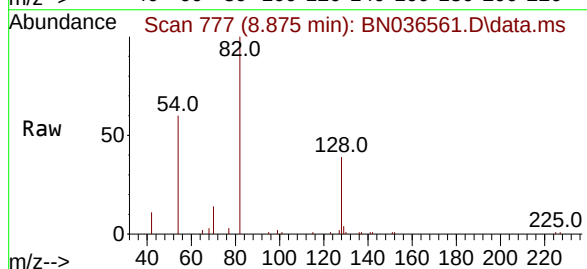
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

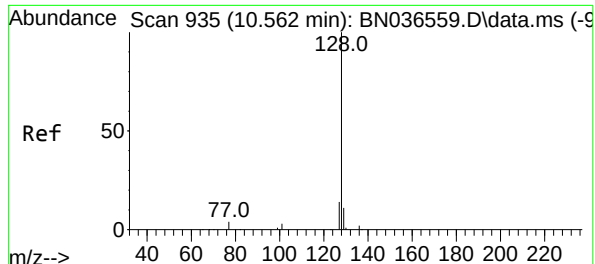
Tgt Ion:	136	Resp:	6200
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4



#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

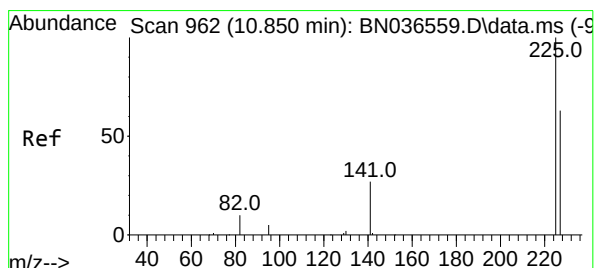
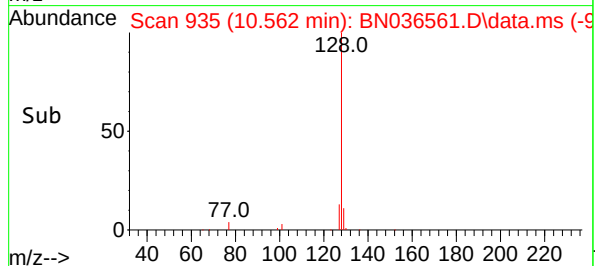
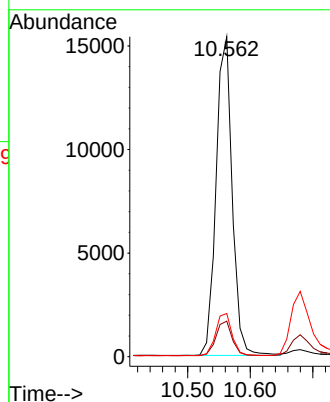
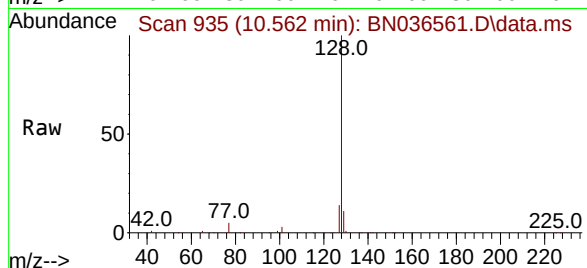
Tgt Ion:128 Resp: 27473

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

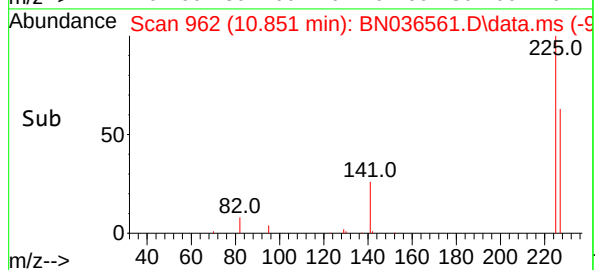
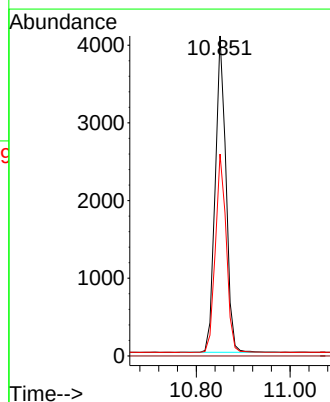
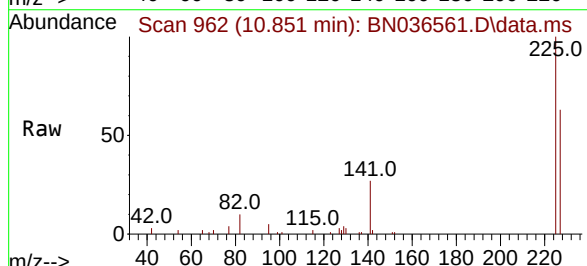
Tgt Ion:225 Resp: 6466

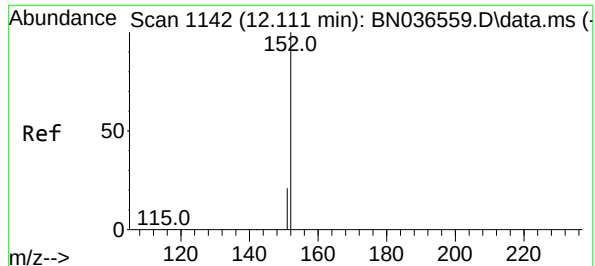
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.8 77.8

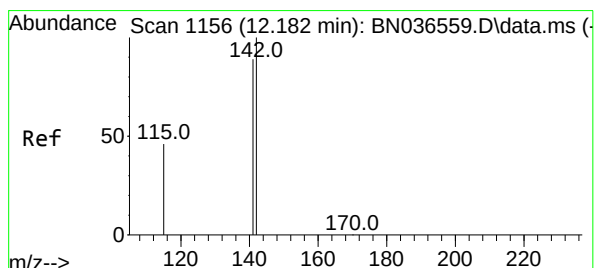
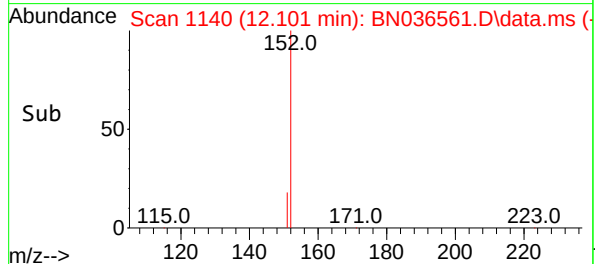
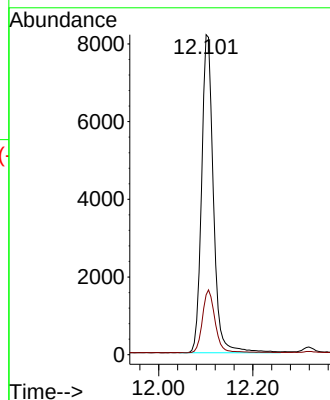
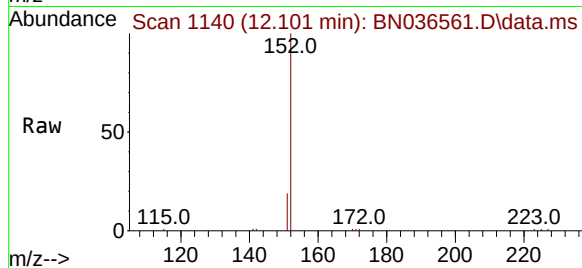




#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

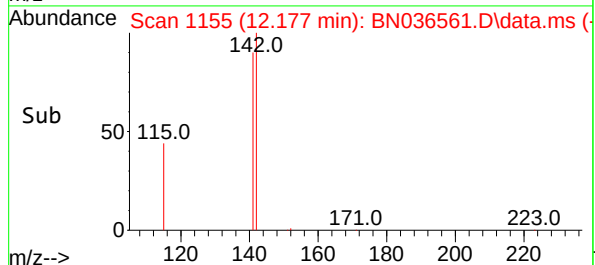
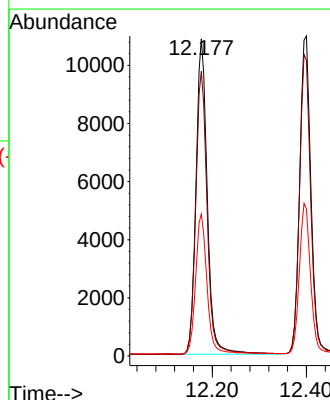
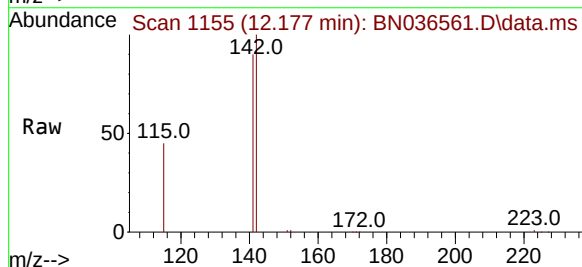
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

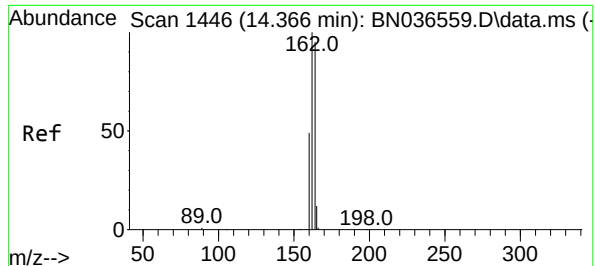
Tgt Ion:152 Resp: 14319
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#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

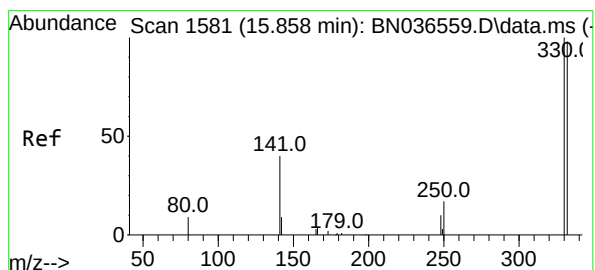
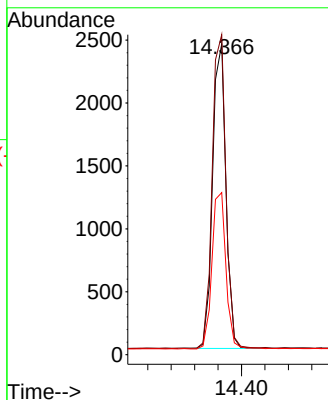
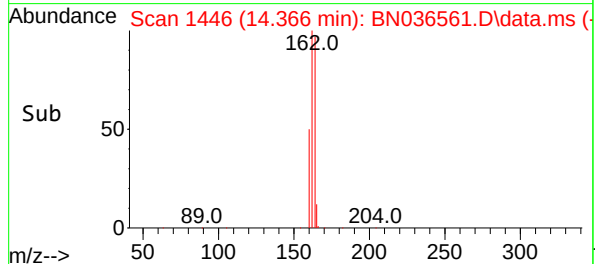
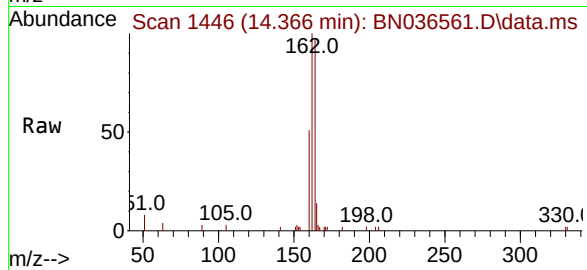




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

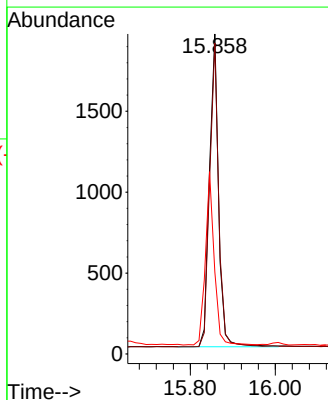
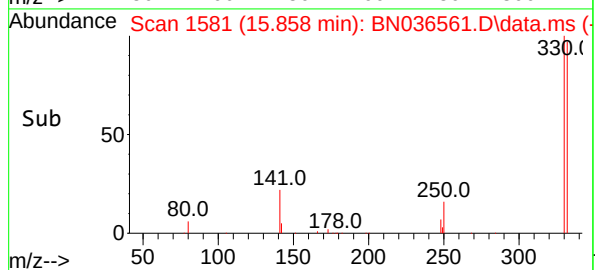
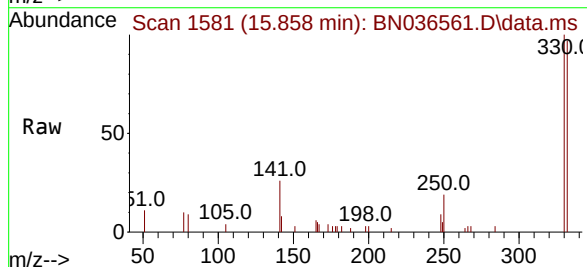
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

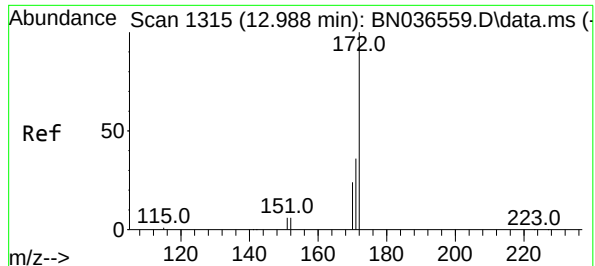
Tgt Ion:164 Resp: 3827
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 52.1 42.2 63.2



#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

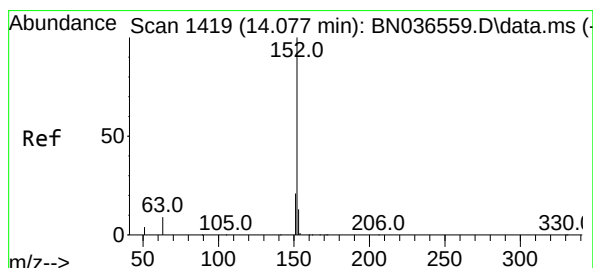
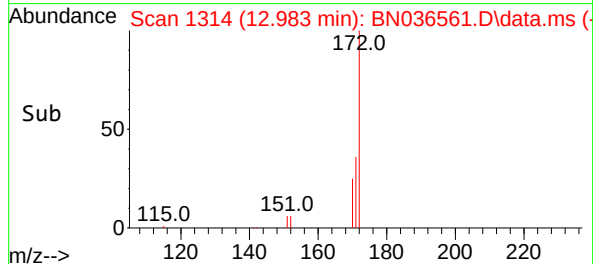
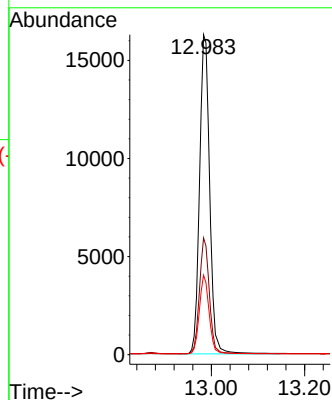
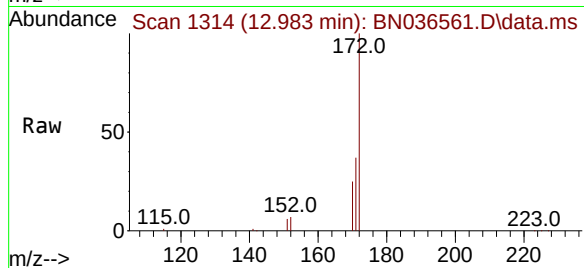
Tgt Ion:172 Resp: 36192

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

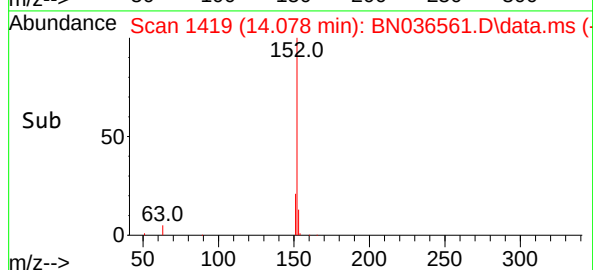
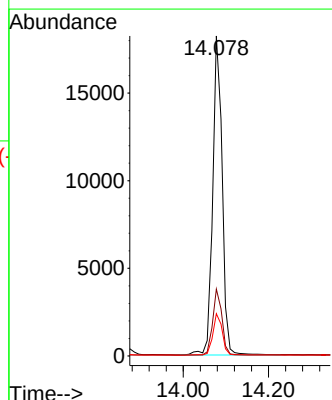
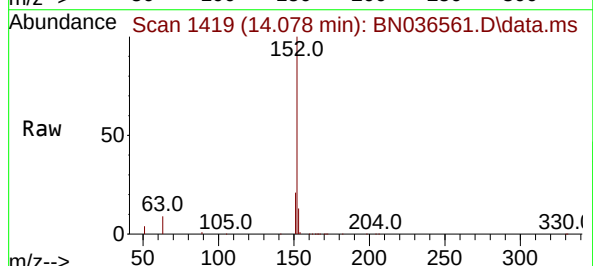
Tgt Ion:152 Resp: 28080

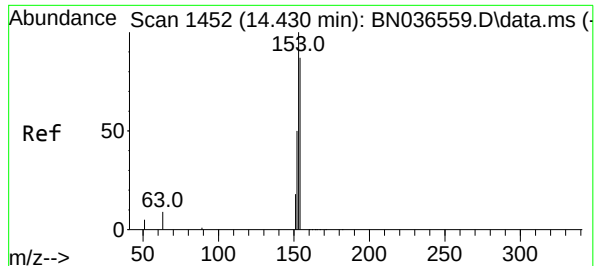
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.0 10.6 15.8

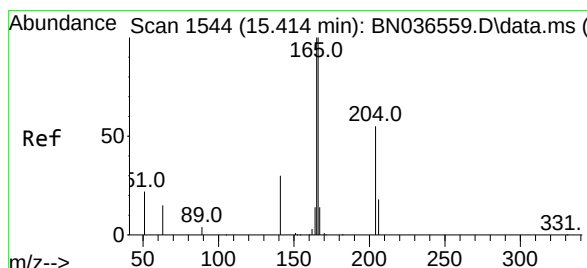
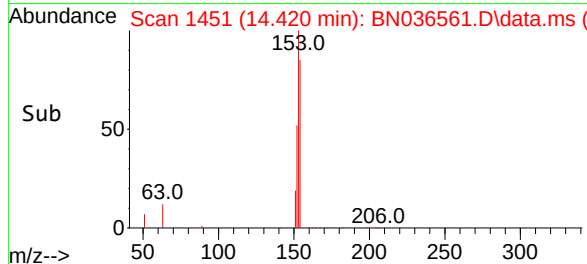
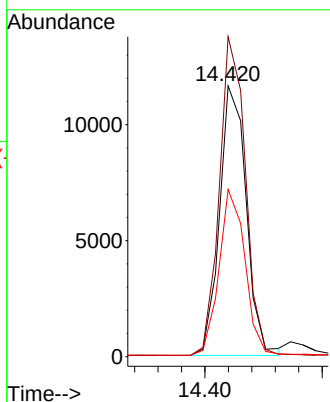
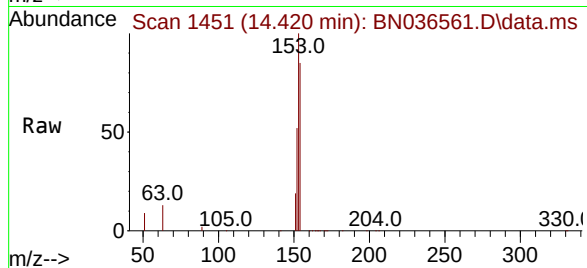




#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

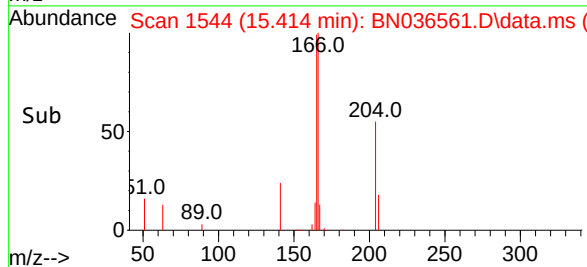
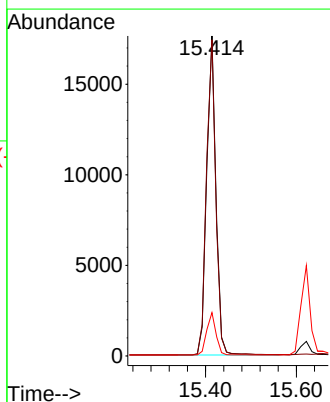
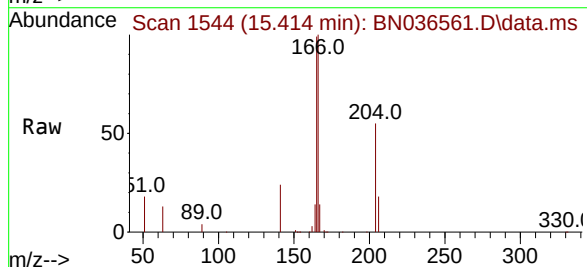
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

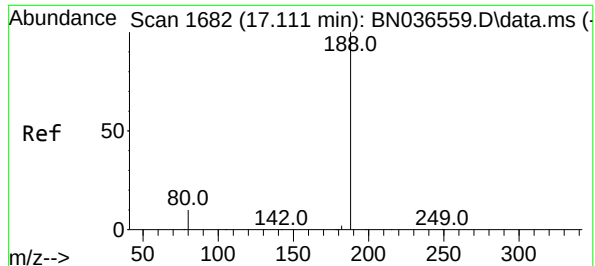
Tgt Ion:154 Resp: 18355
Ion Ratio Lower Upper
154 100
153 115.7 94.1 141.1
152 60.3 49.8 74.6



#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

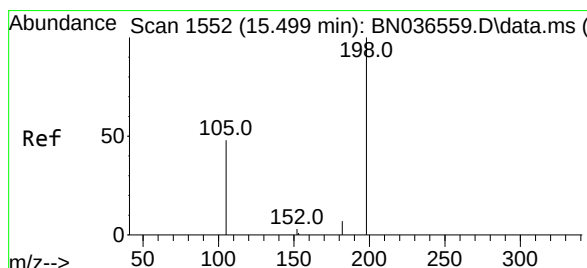
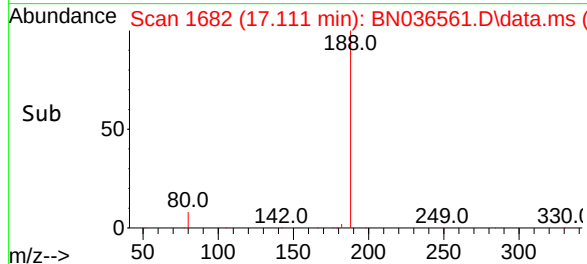
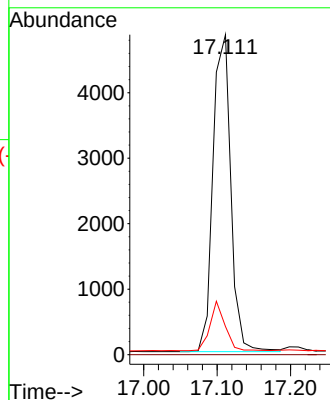
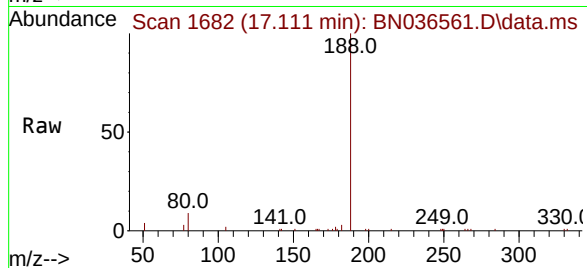
Tgt Ion:188 Resp: 8149

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

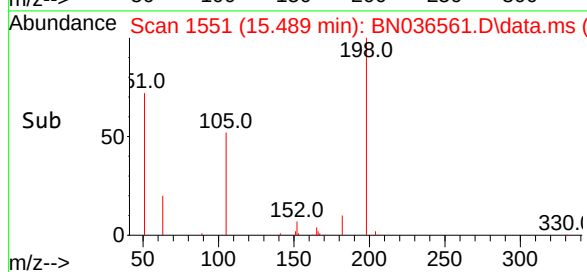
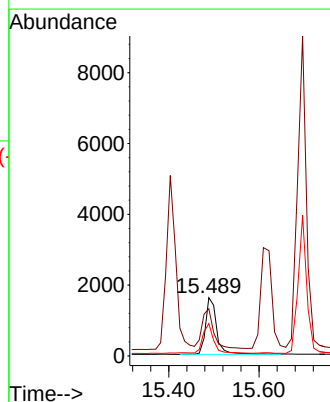
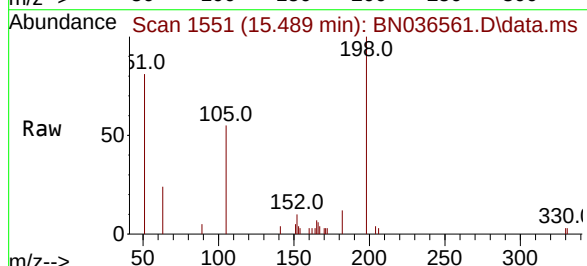
Tgt Ion:198 Resp: 2879

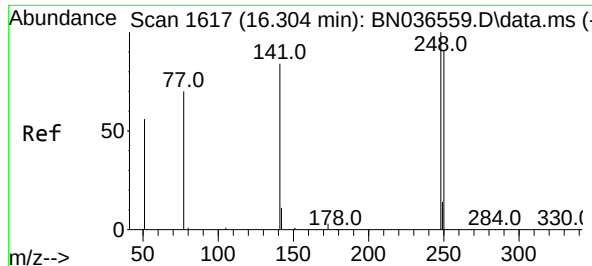
Ion Ratio Lower Upper

198 100

51 81.2 107.9 161.9#

105 55.5 56.2 84.2#

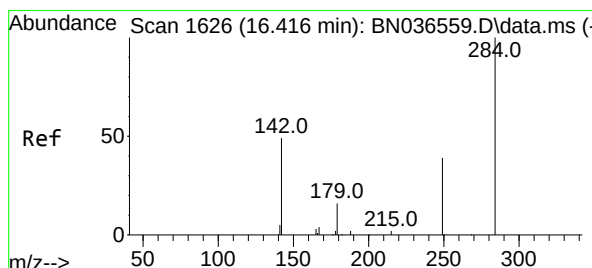
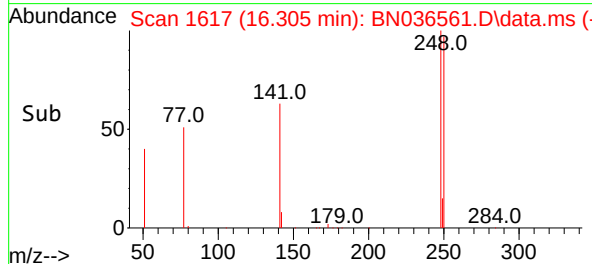
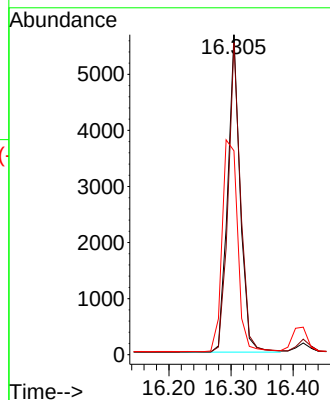
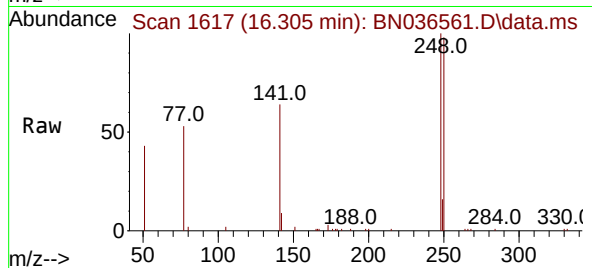




#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

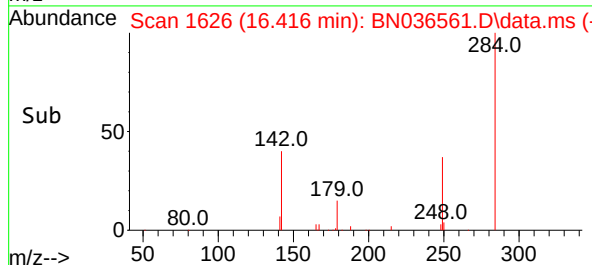
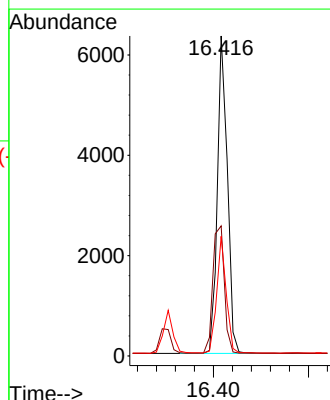
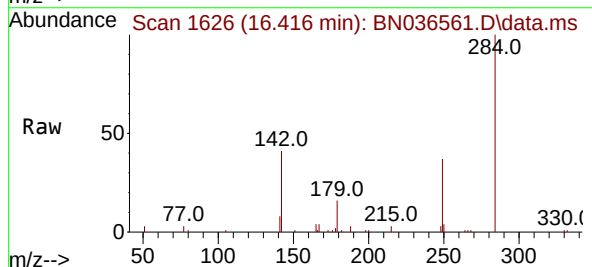
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

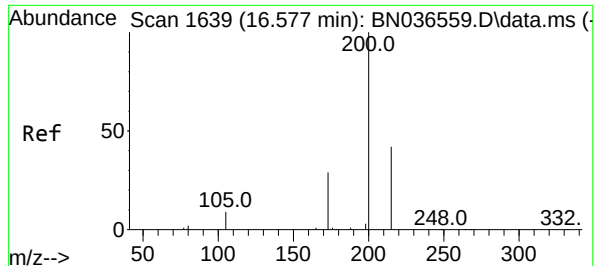
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#



#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

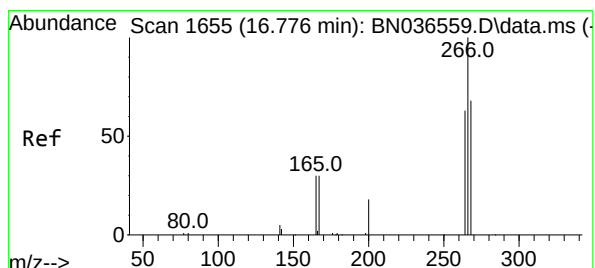
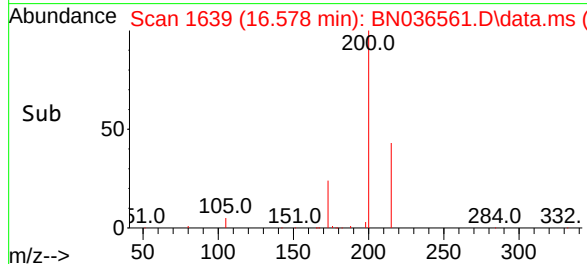
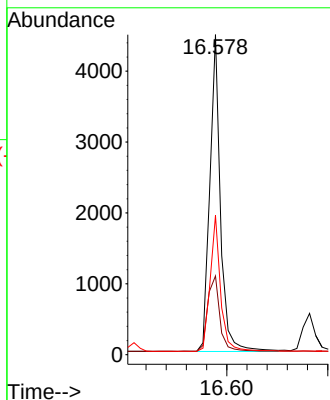
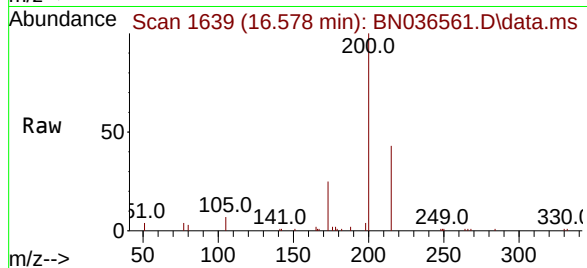




#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

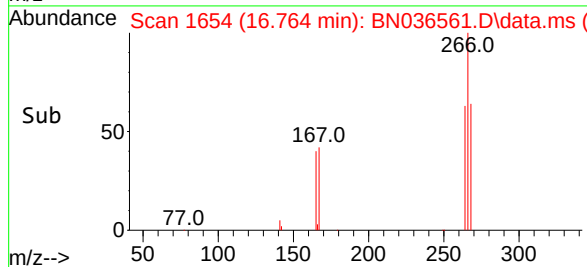
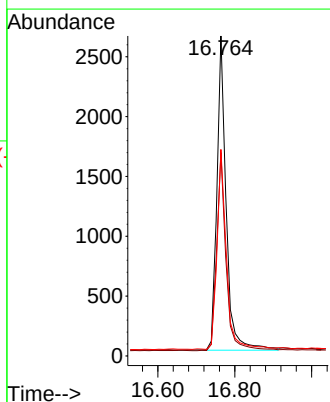
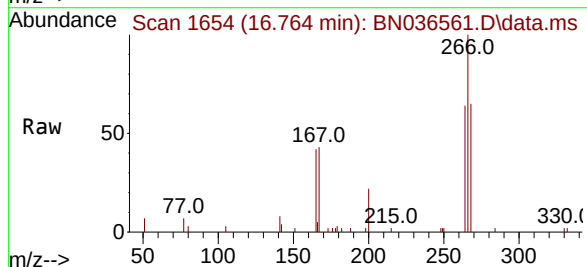
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

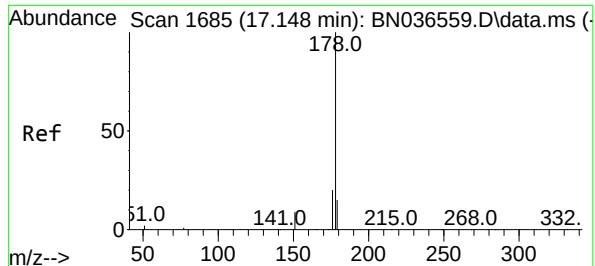
Tgt Ion:200 Resp: 6530
Ion Ratio Lower Upper
200 100
173 24.6 27.3 40.9#
215 43.5 36.8 55.2



#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

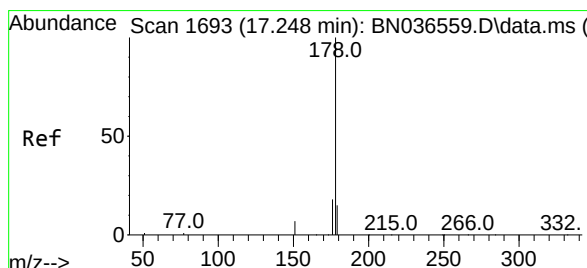
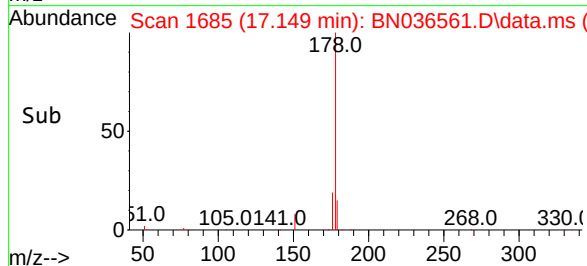
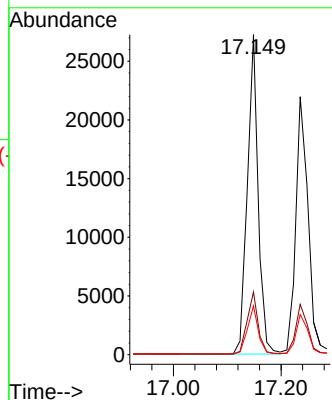
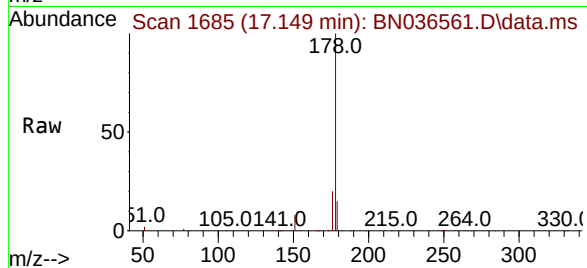
Tgt Ion:178 Resp: 37989

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

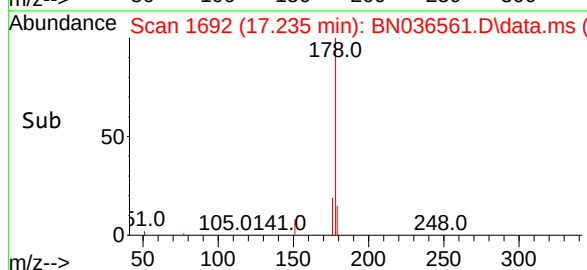
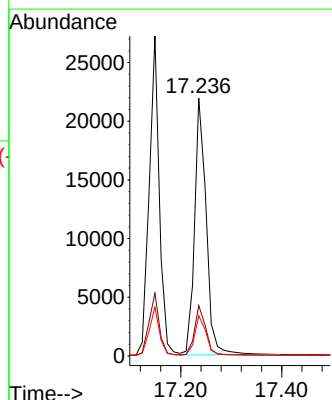
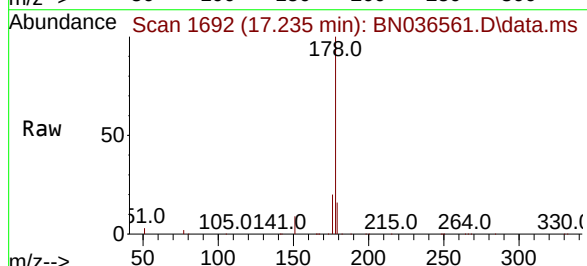
Tgt Ion:178 Resp: 35054

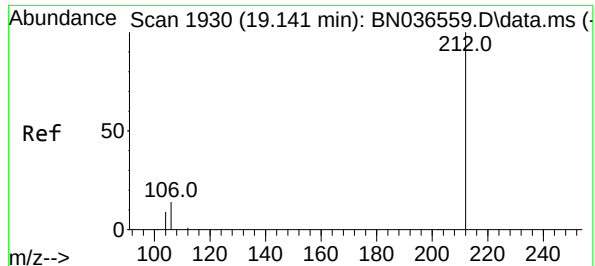
Ion Ratio Lower Upper

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

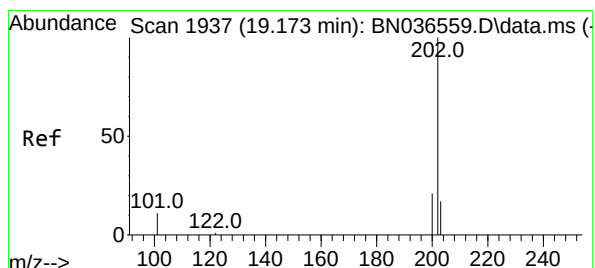
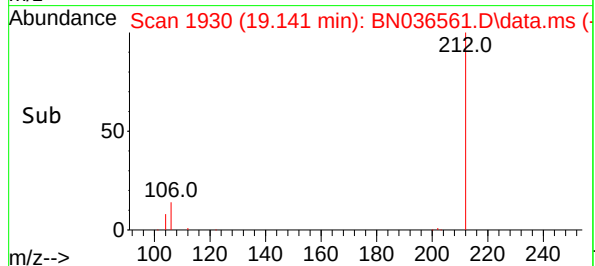
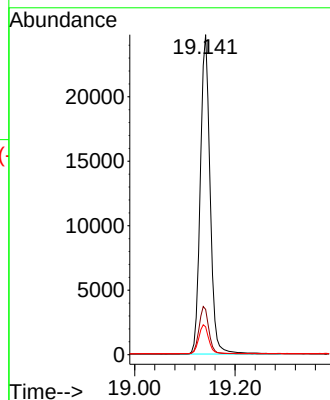
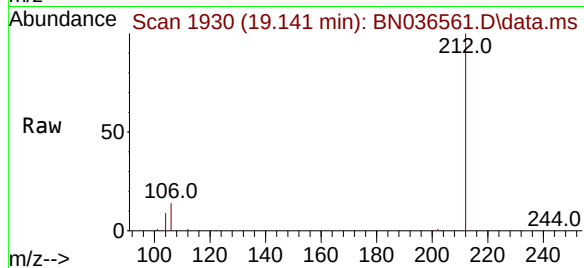
Tgt Ion:212 Resp: 33414

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

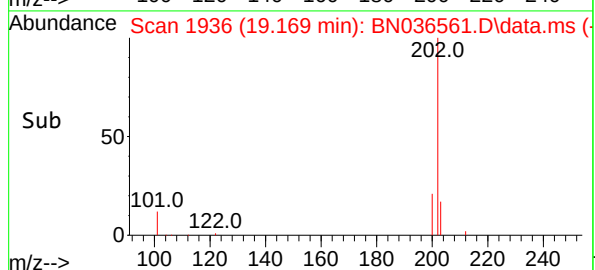
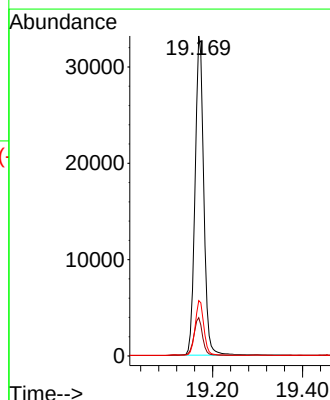
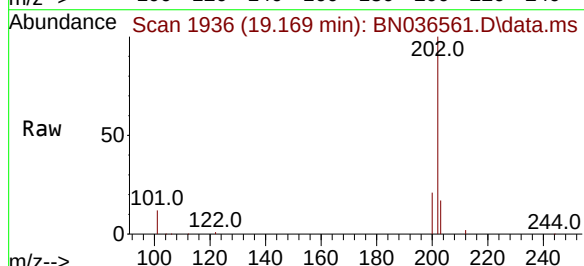
Tgt Ion:202 Resp: 44451

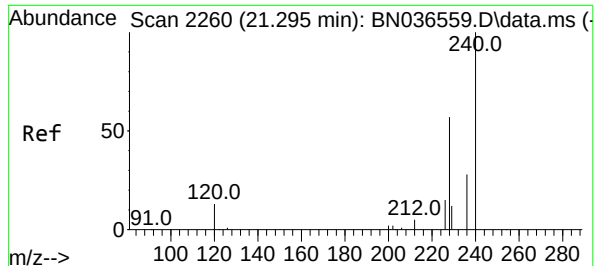
Ion Ratio Lower Upper

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

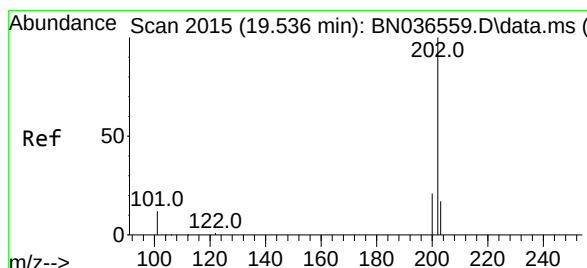
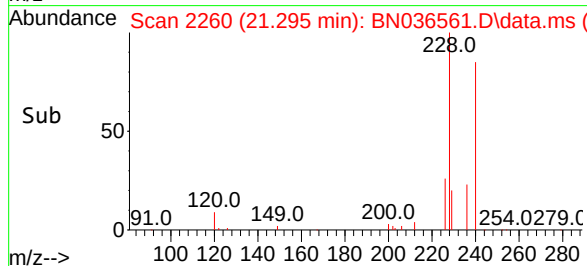
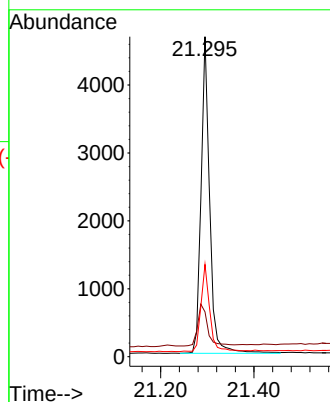
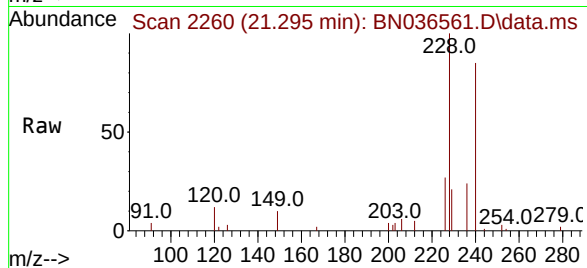
Tgt Ion:240 Resp: 5977

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

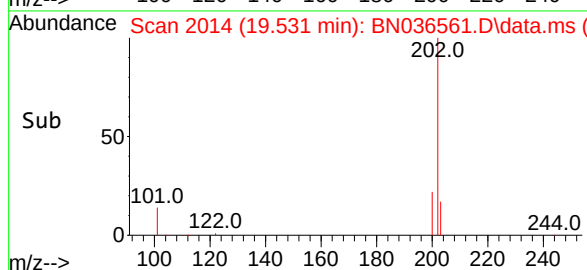
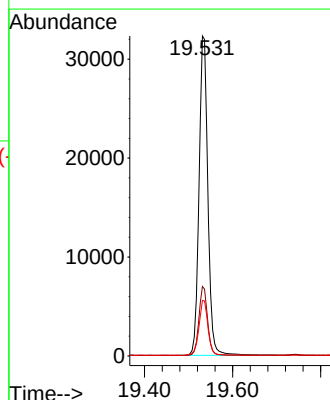
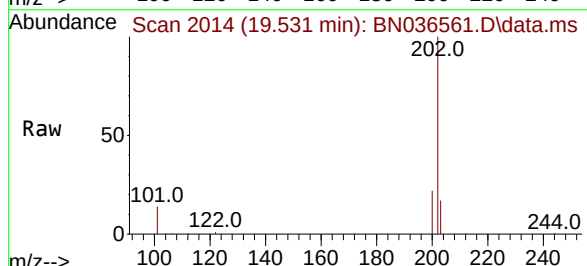
Tgt Ion:202 Resp: 44705

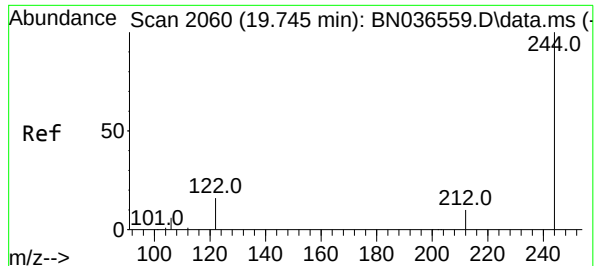
Ion Ratio Lower Upper

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

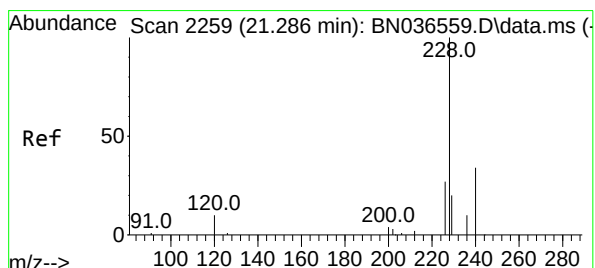
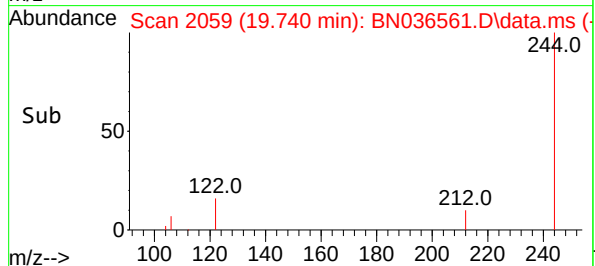
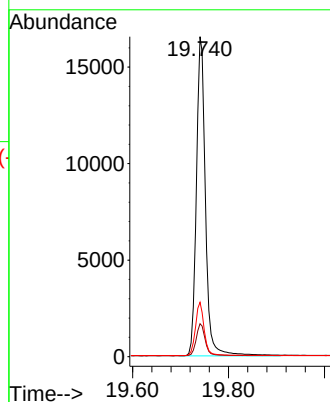
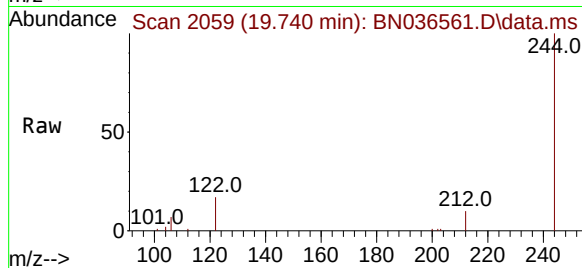
Tgt Ion:244 Resp: 21872

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

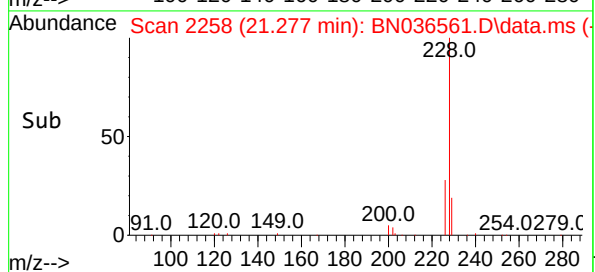
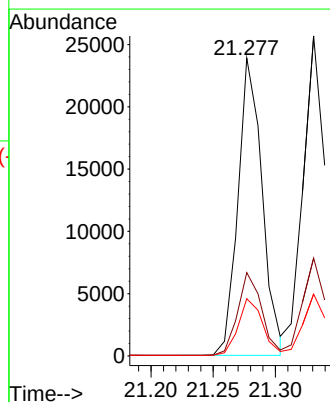
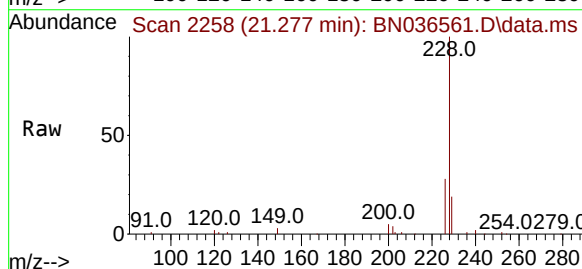
Tgt Ion:228 Resp: 32205

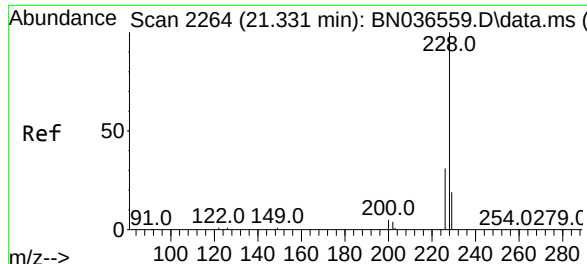
Ion Ratio Lower Upper

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

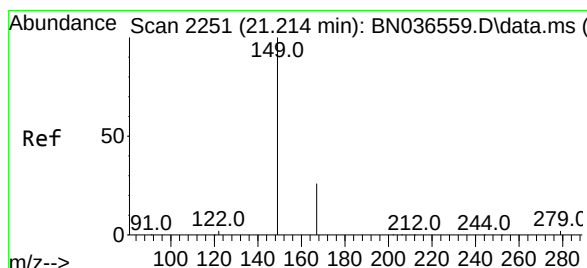
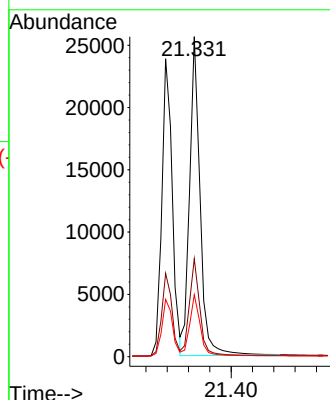
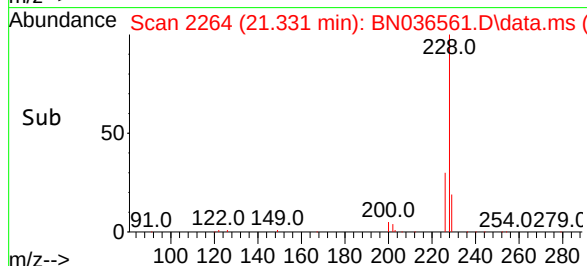
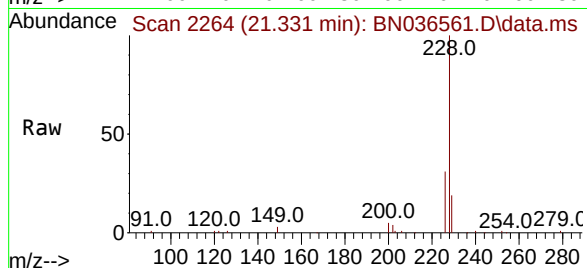
Tgt Ion:228 Resp: 34953

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

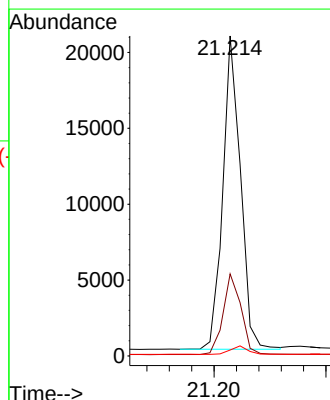
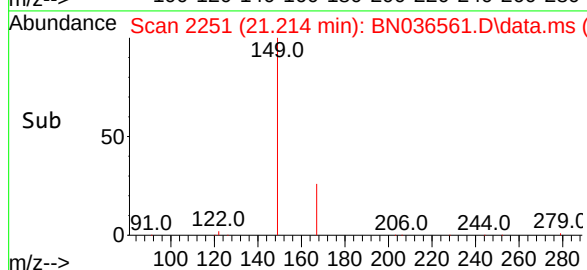
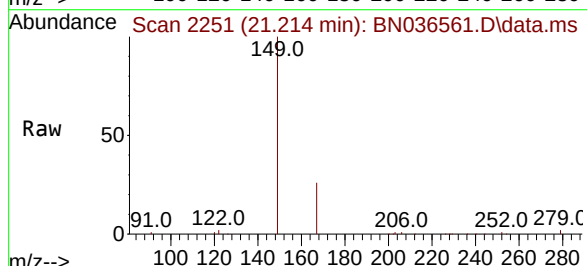
Tgt Ion:149 Resp: 22621

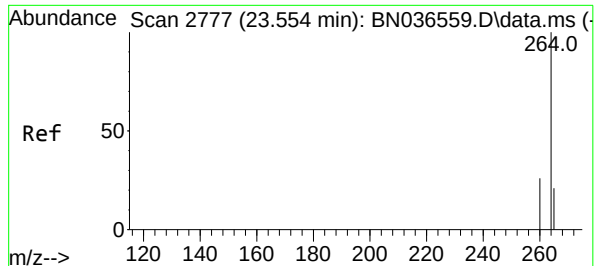
Ion Ratio Lower Upper

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

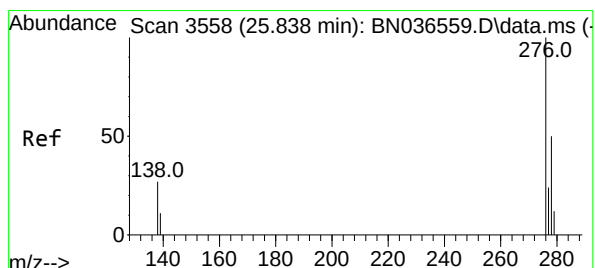
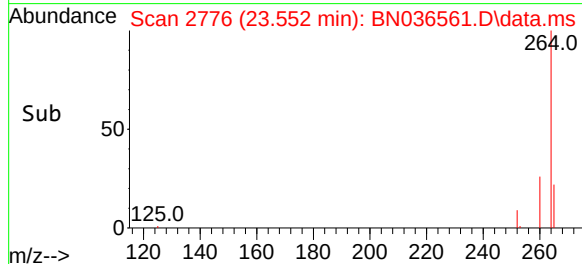
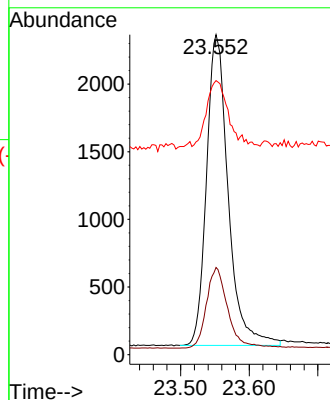
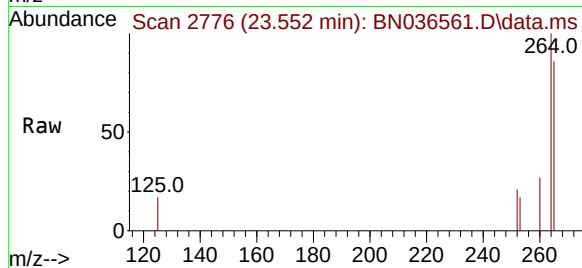
Tgt Ion:264 Resp: 5048

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

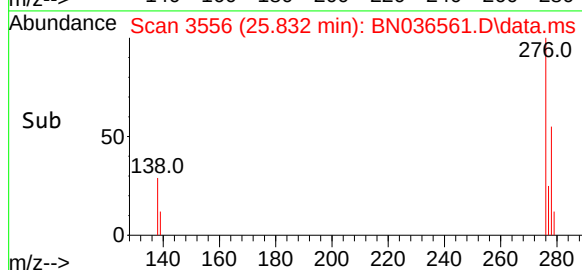
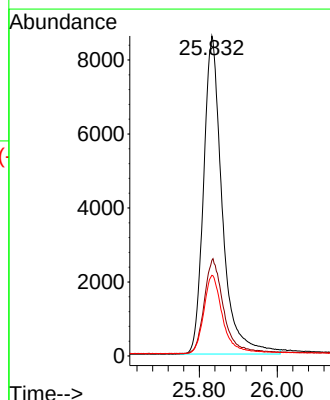
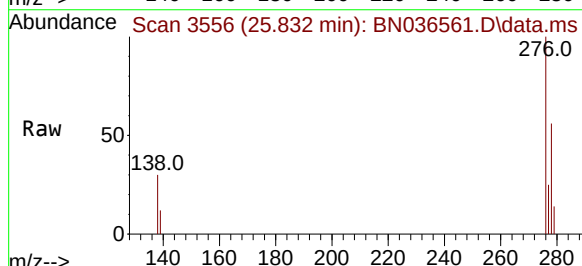
Tgt Ion:276 Resp: 28605

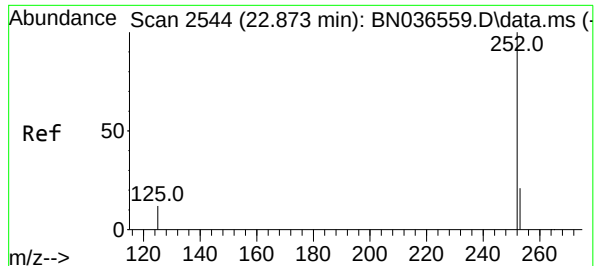
Ion Ratio Lower Upper

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

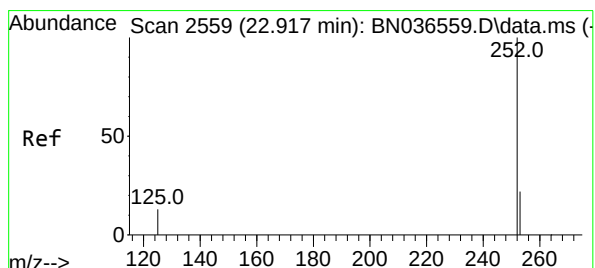
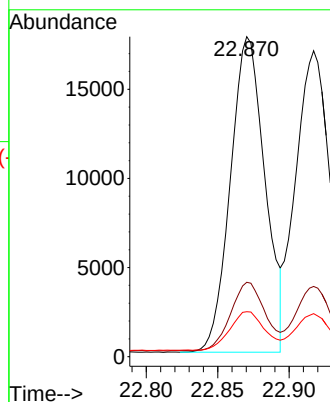
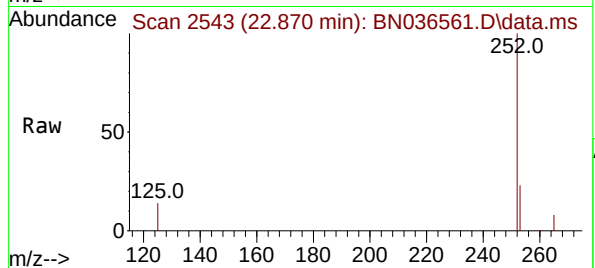
Tgt Ion:252 Resp: 29819

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

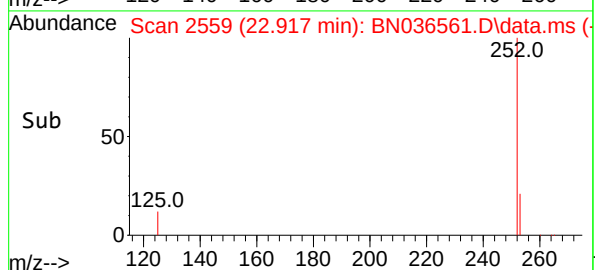
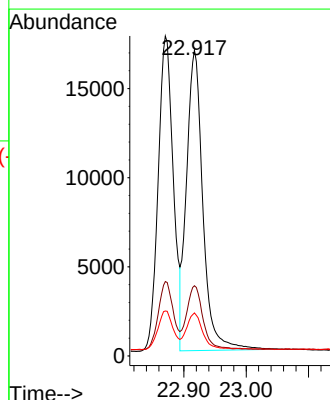
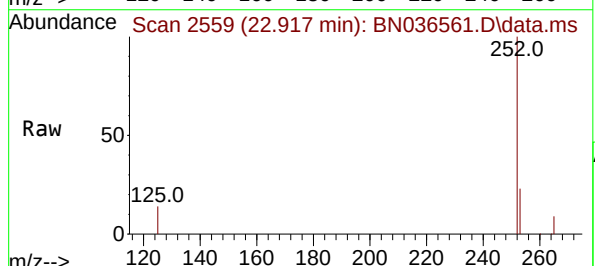
Tgt Ion:252 Resp: 30710

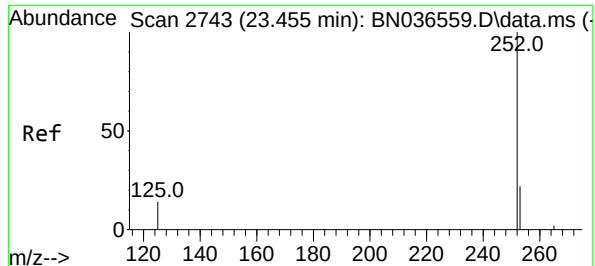
Ion Ratio Lower Upper

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

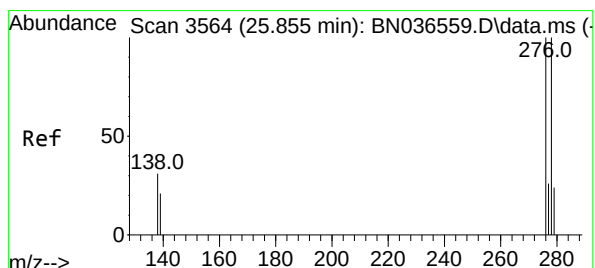
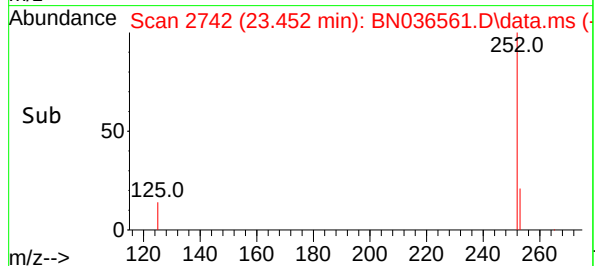
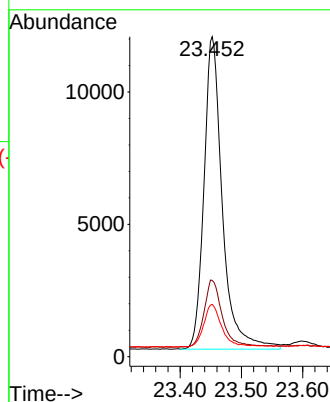
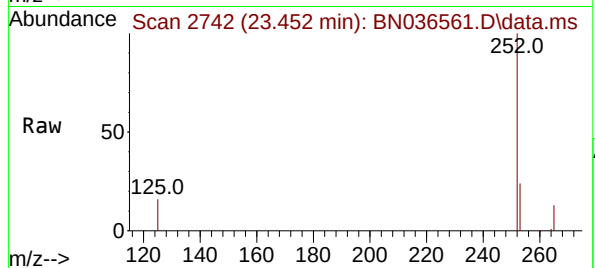
Tgt Ion:252 Resp: 24696

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

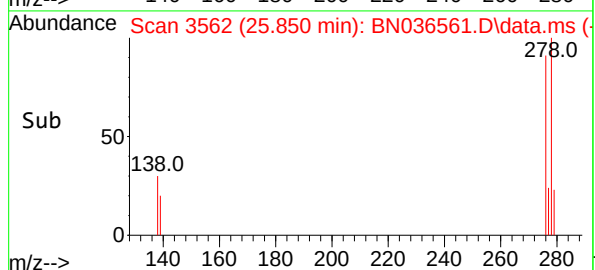
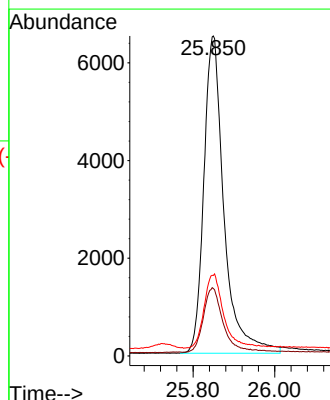
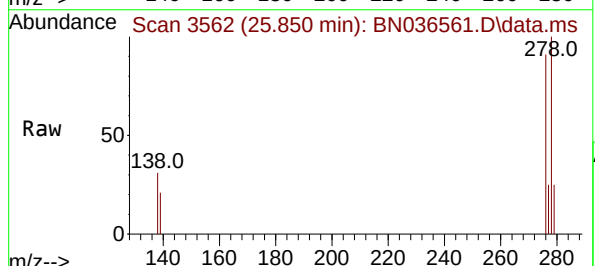
Tgt Ion:278 Resp: 22248

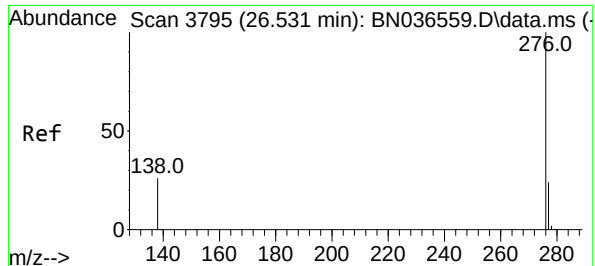
Ion Ratio Lower Upper

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

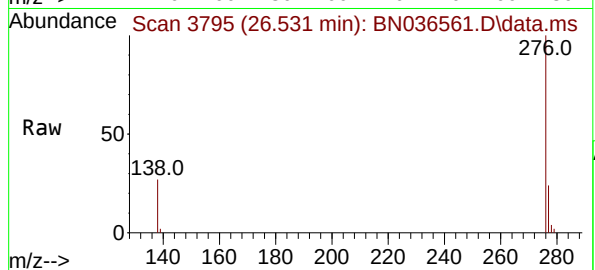
Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



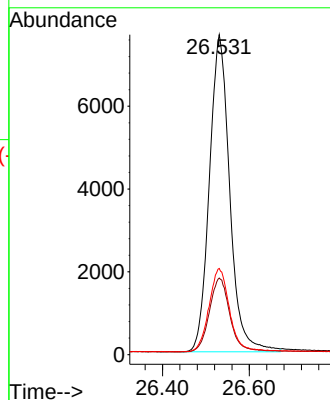
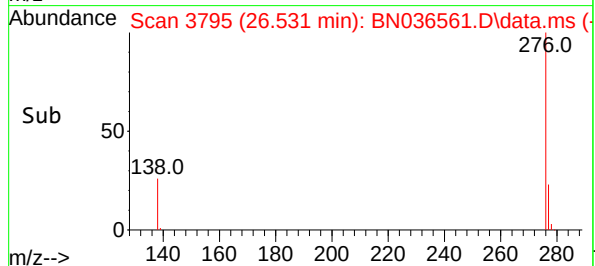
Tgt Ion:276 Resp: 24906

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

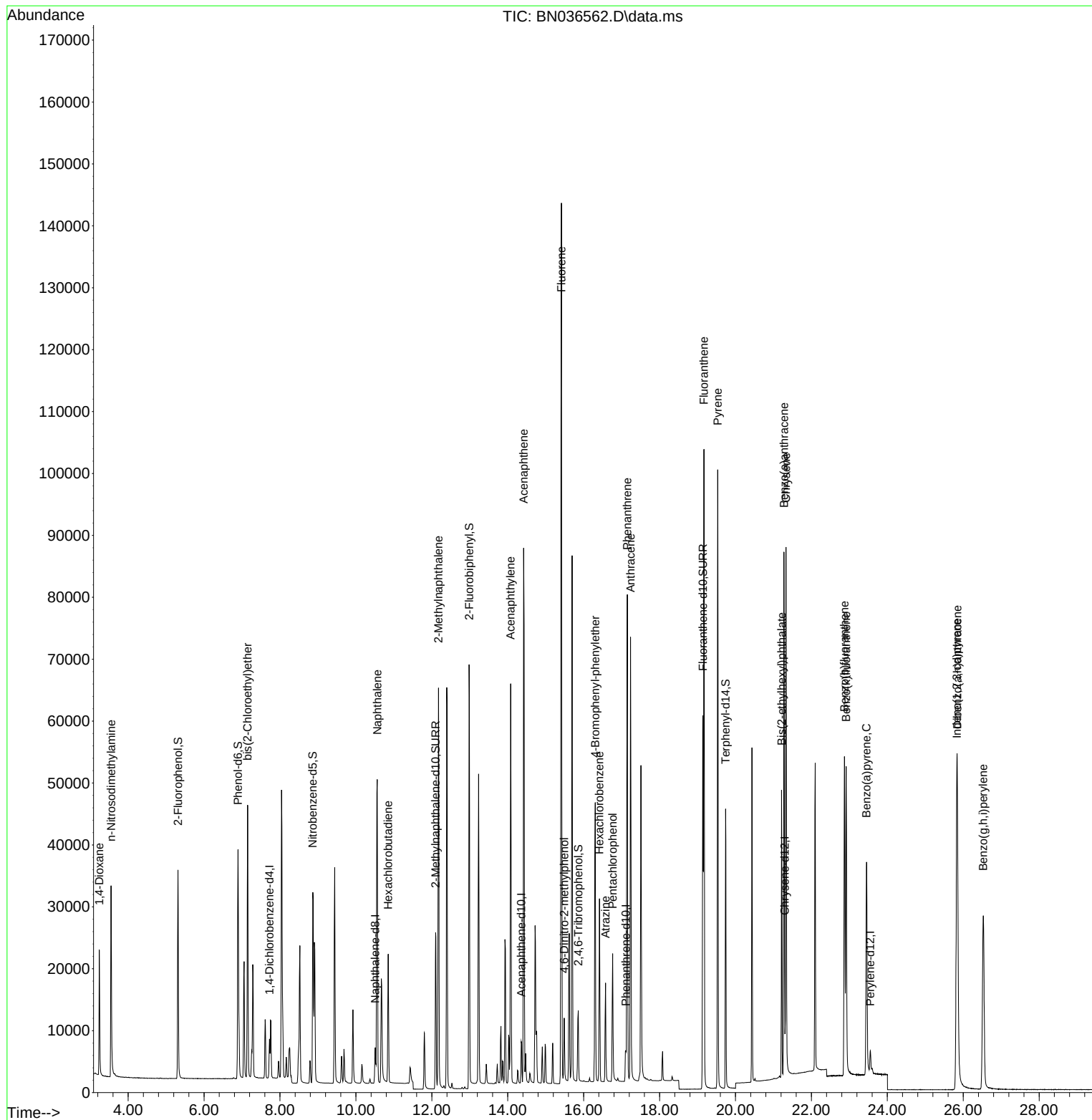
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng	0.00
29) Chrysene-d12	21.295	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						
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

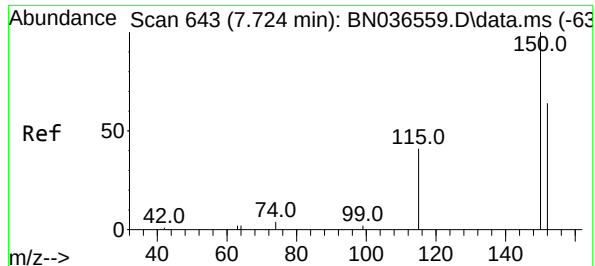
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

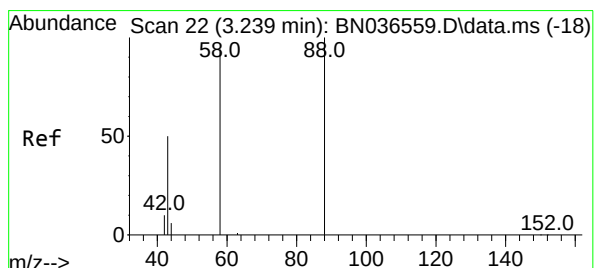
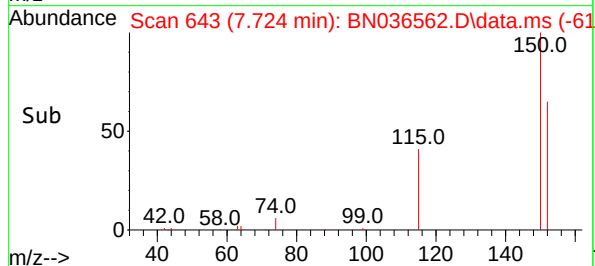
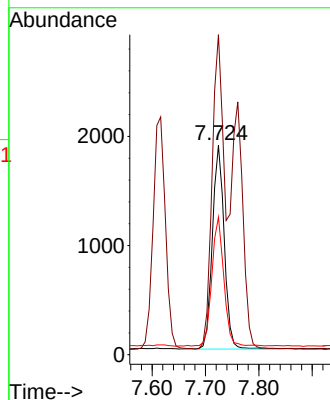
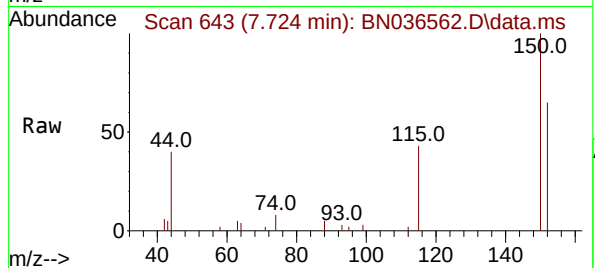




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

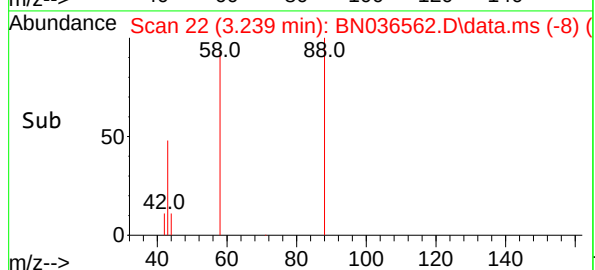
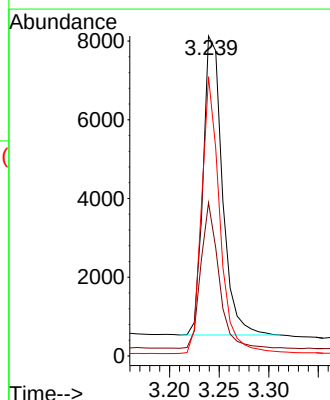
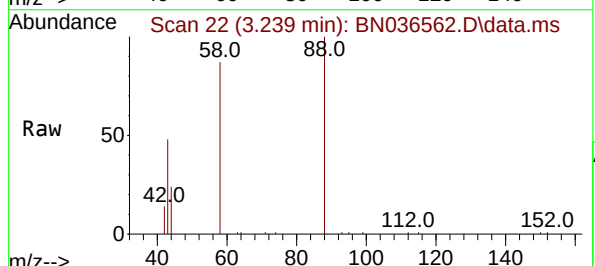
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

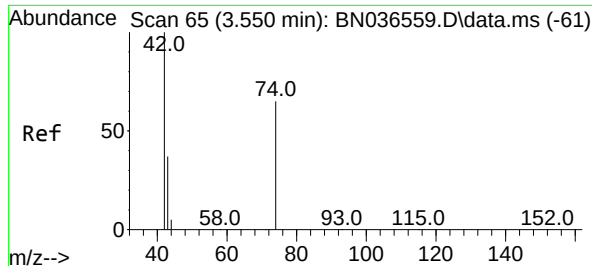
Tgt Ion:152 Resp: 2890
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 65.7 54.3 81.5



#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

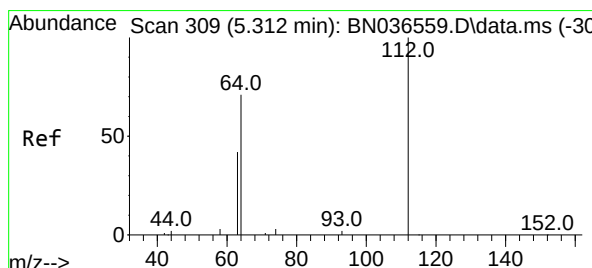
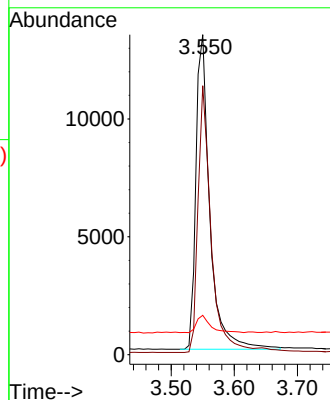
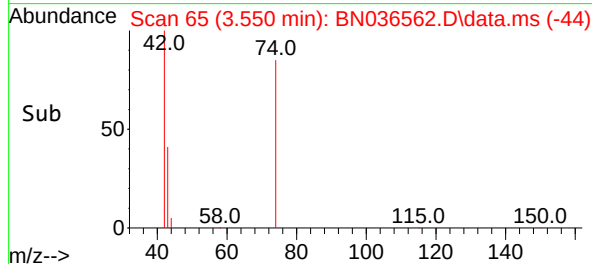
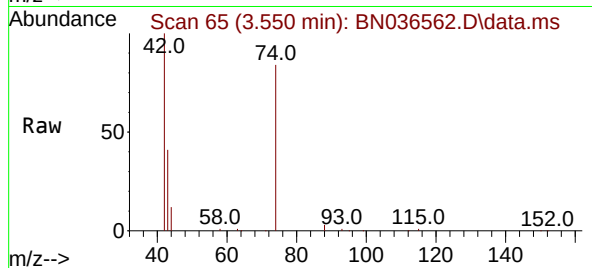




#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

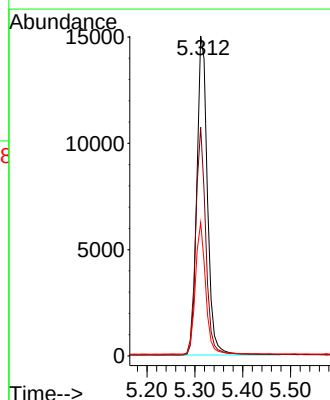
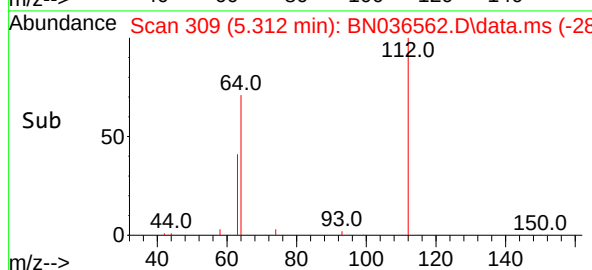
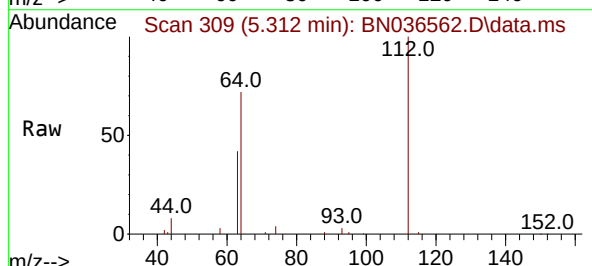
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

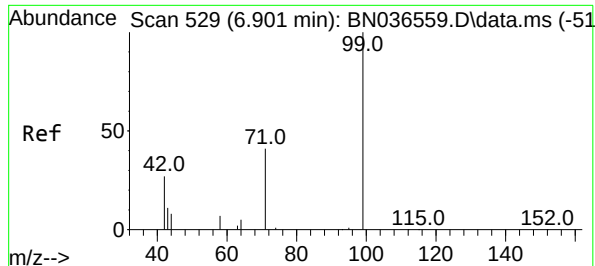
Tgt Ion: 42 Resp: 20412
Ion Ratio Lower Upper
42 100
74 78.8 60.6 90.8
44 5.5 6.3 9.5#



#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

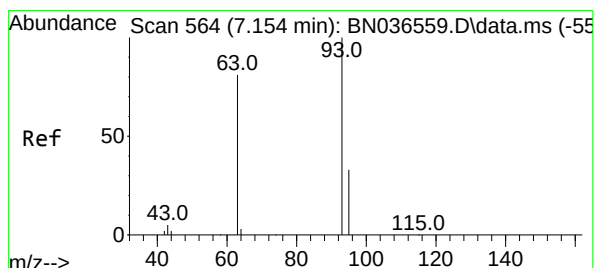
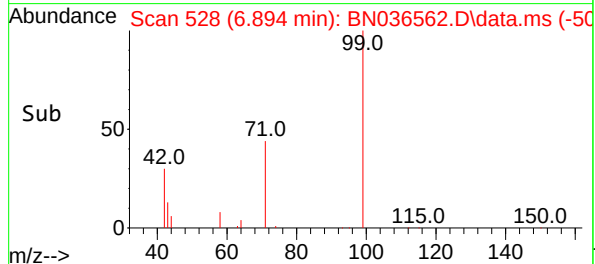
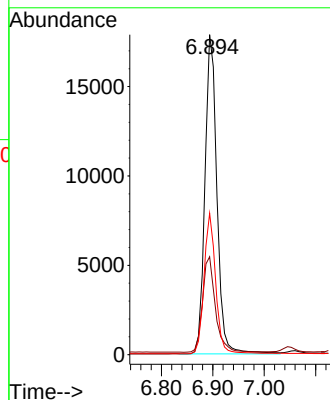
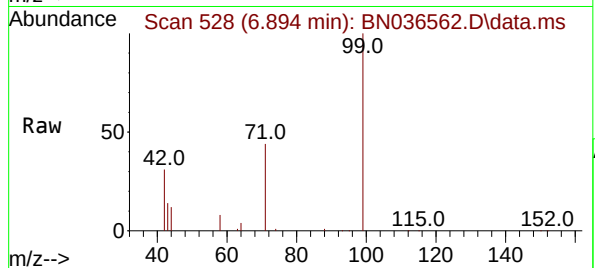




#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

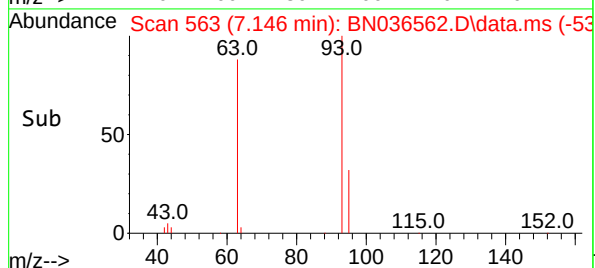
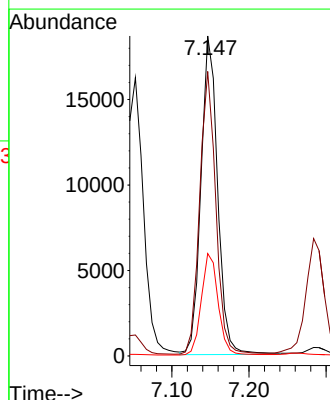
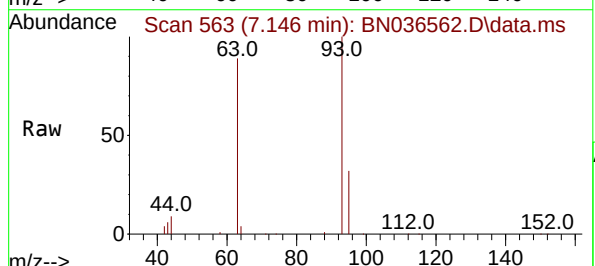
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

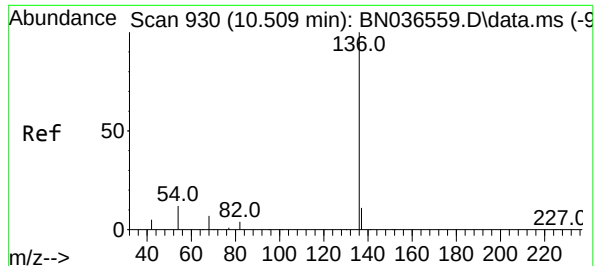
Tgt Ion: 99 Resp: 28996
Ion Ratio Lower Upper
99 100
42 32.3 26.5 39.7
71 43.2 34.1 51.1



#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

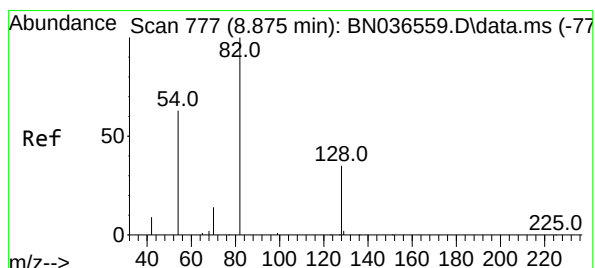
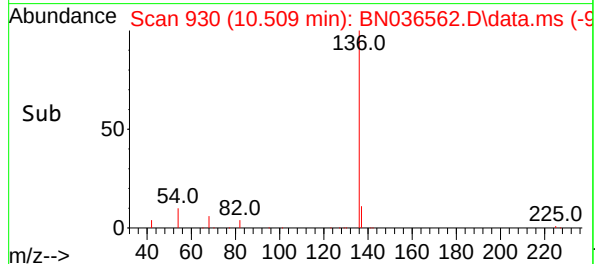
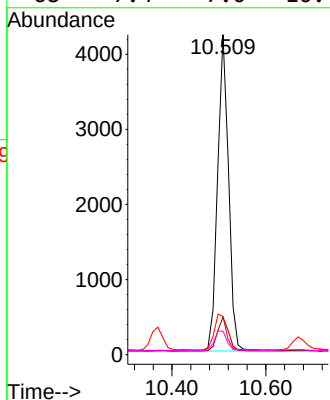
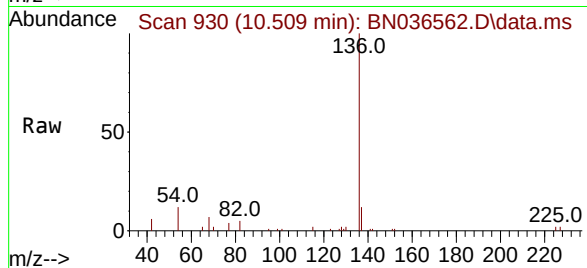




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

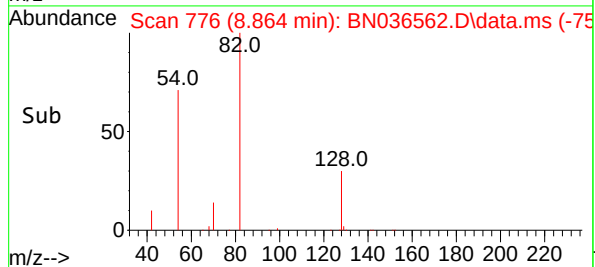
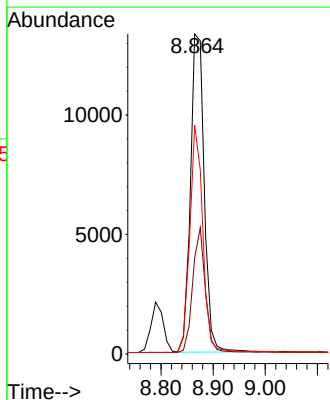
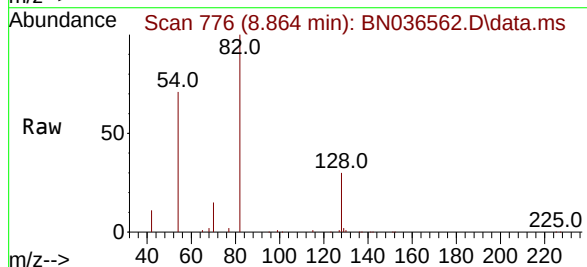
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

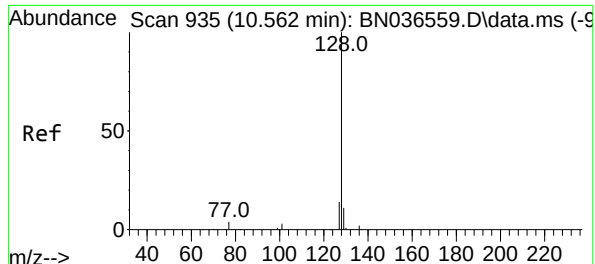
Tgt Ion:	136	Resp:	6824
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4



#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# 91

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

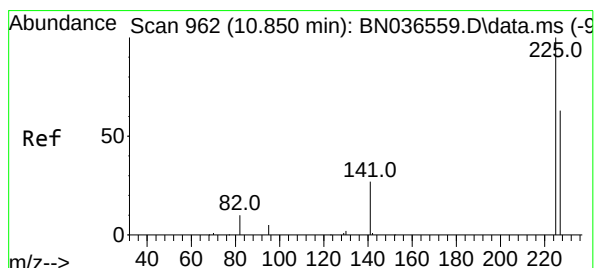
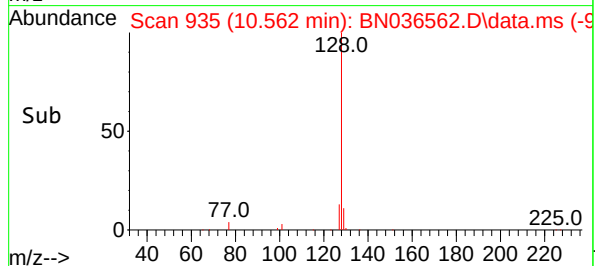
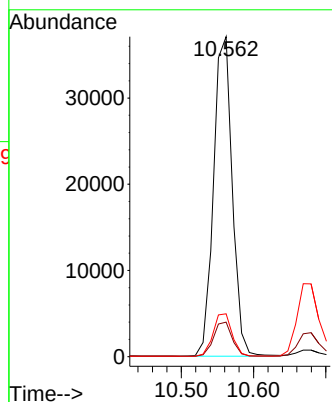
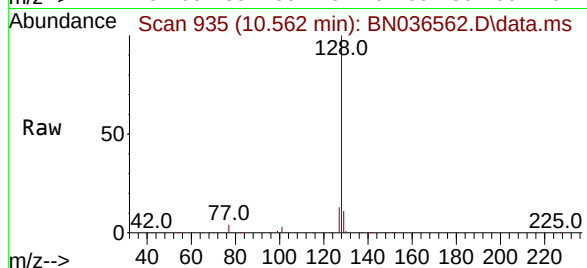
Tgt Ion:128 Resp: 66694

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

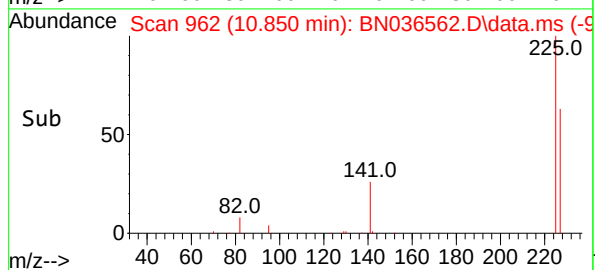
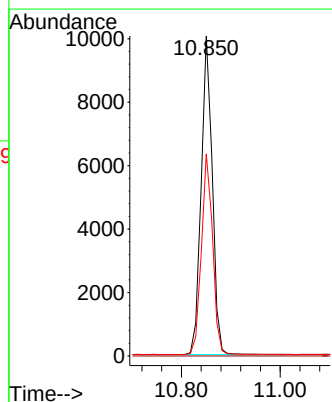
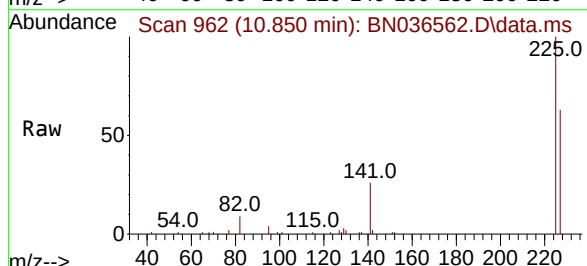
Tgt Ion:225 Resp: 15618

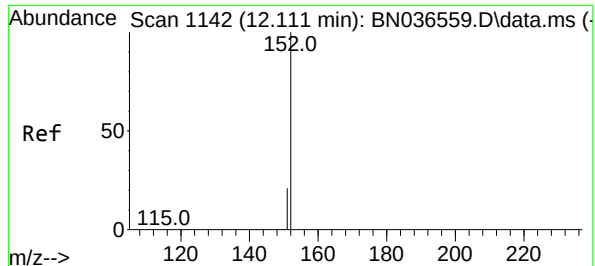
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.8 77.8

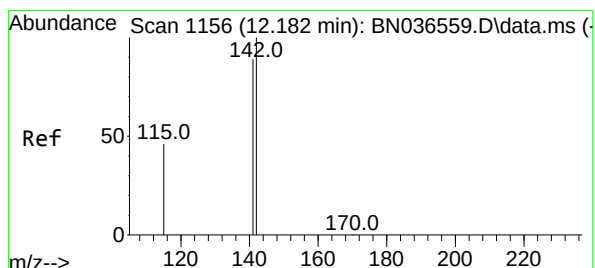
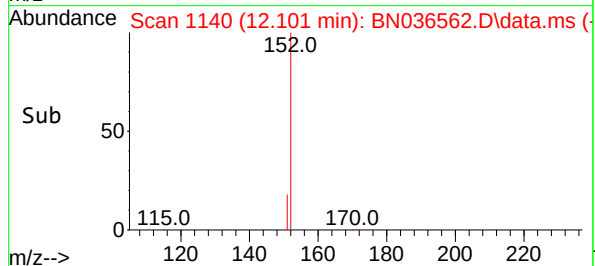
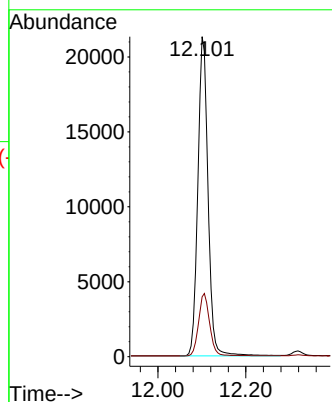
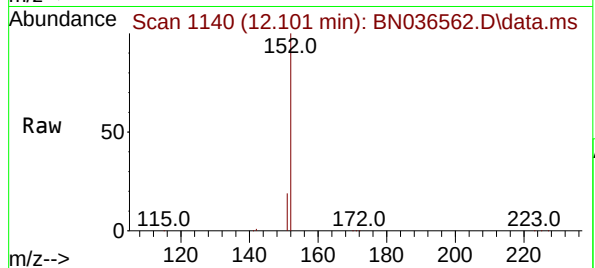




#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

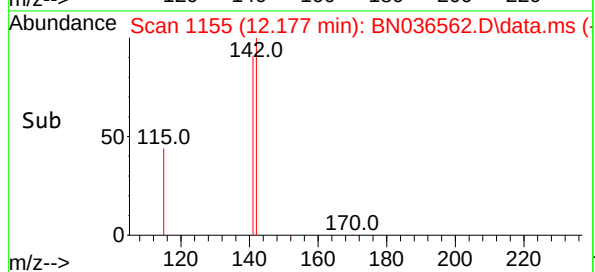
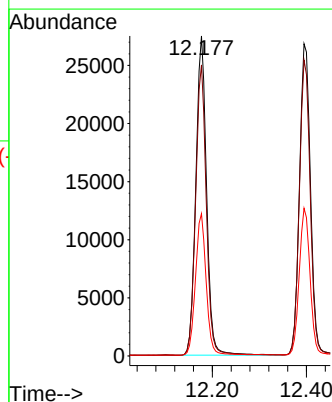
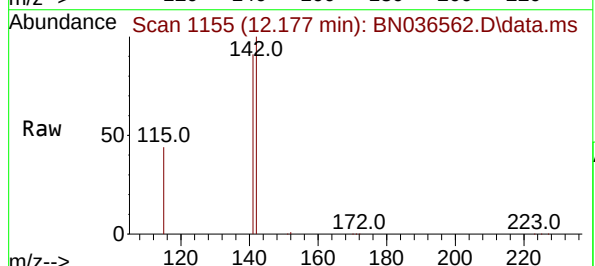
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

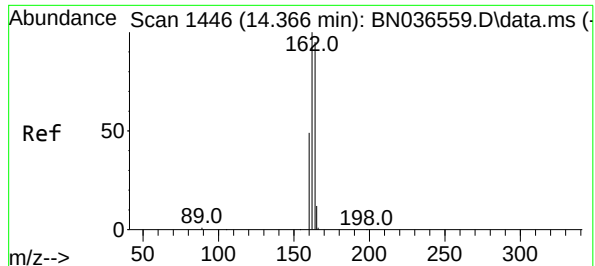
Tgt Ion:152 Resp: 34578
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#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

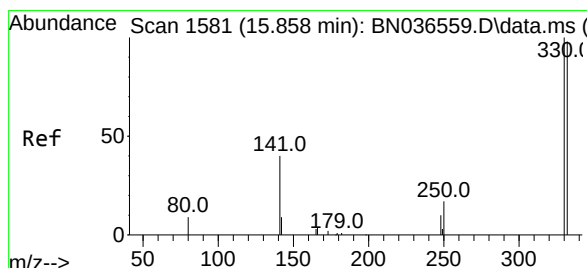
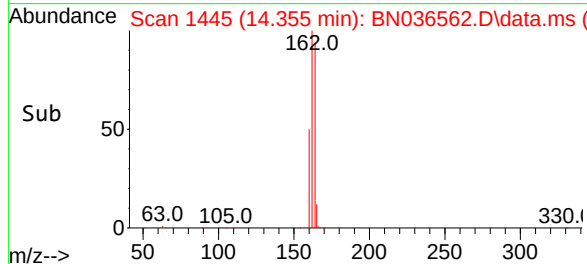
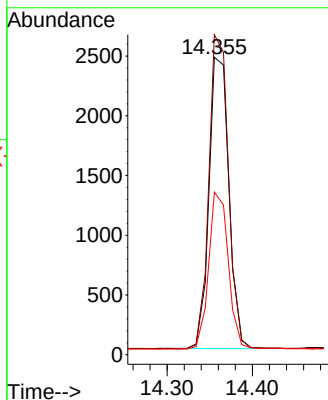
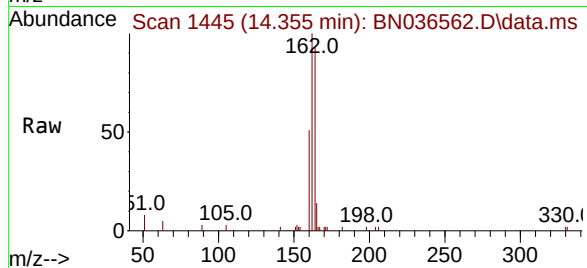




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

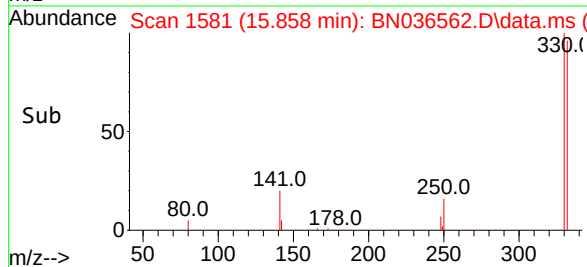
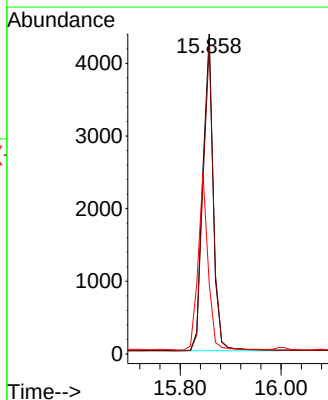
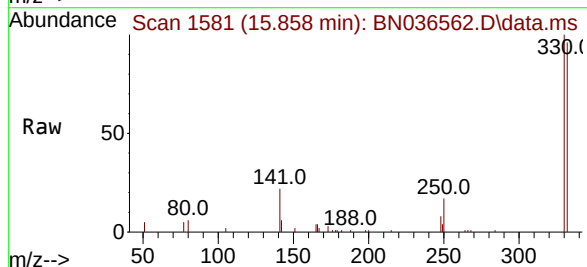
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

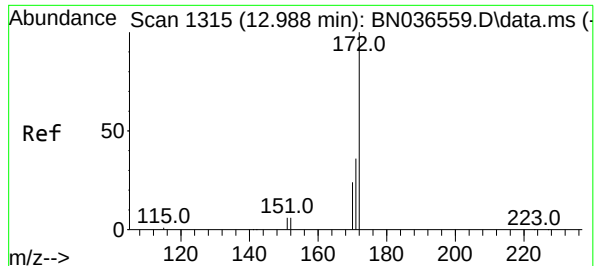
Tgt Ion:164 Resp: 3957
Ion Ratio Lower Upper
164 100
162 107.6 84.2 126.2
160 54.7 42.2 63.2



#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

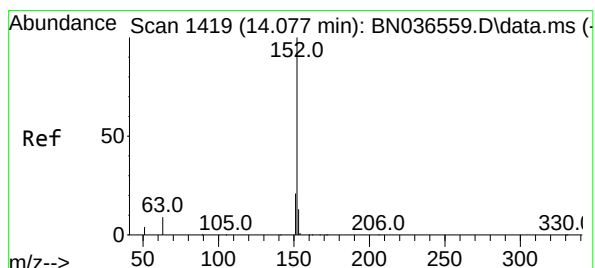
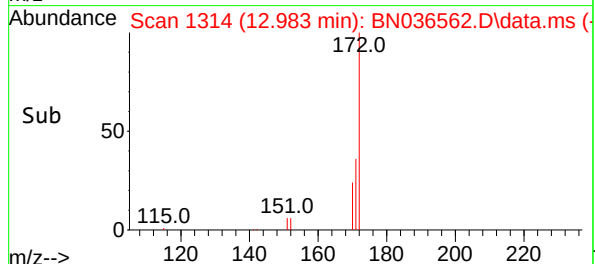
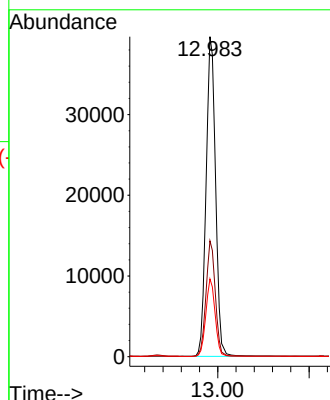
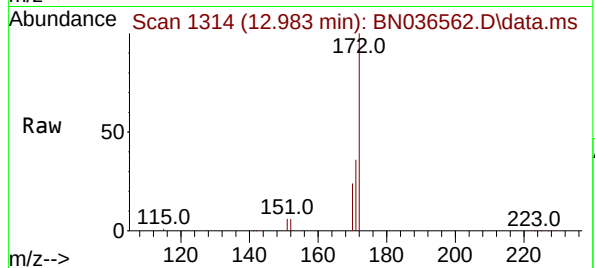
Tgt Ion:172 Resp: 81236

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

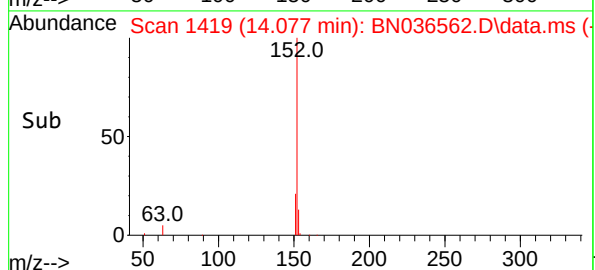
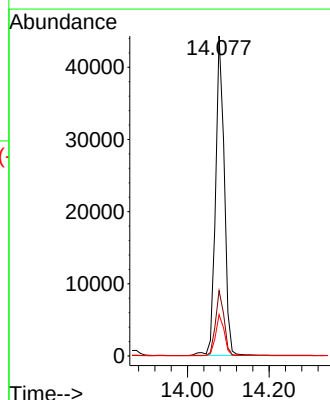
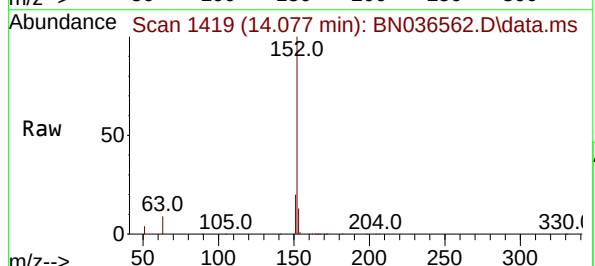
Tgt Ion:152 Resp: 65654

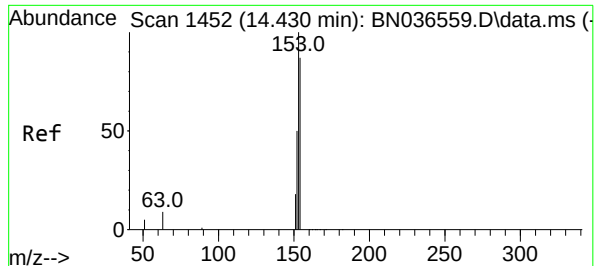
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

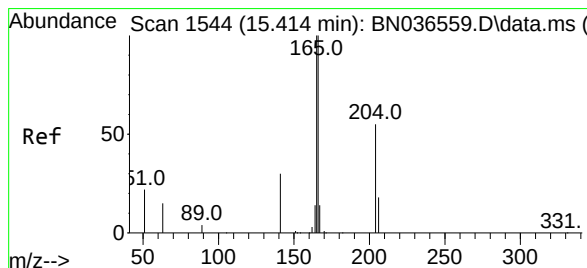
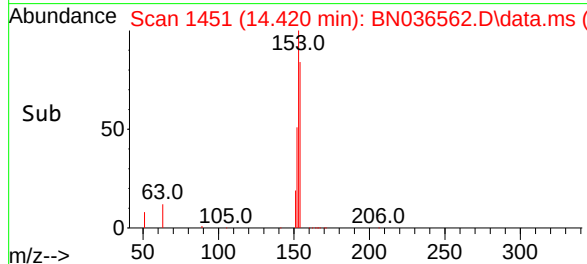
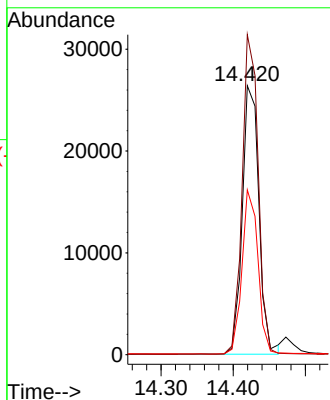
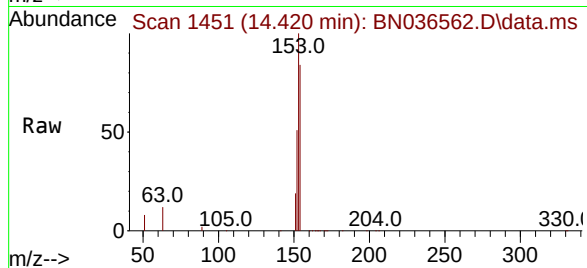




#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

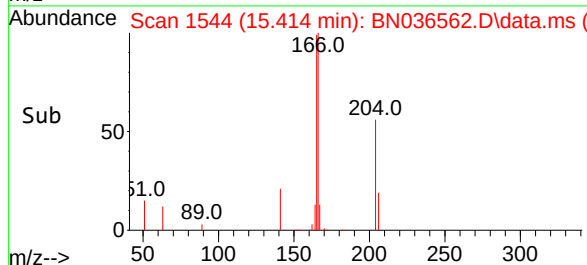
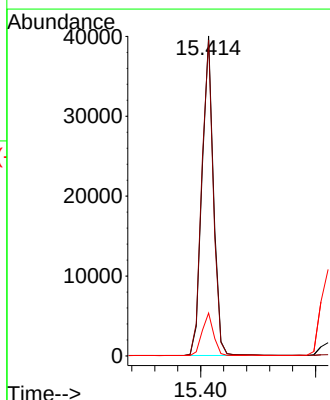
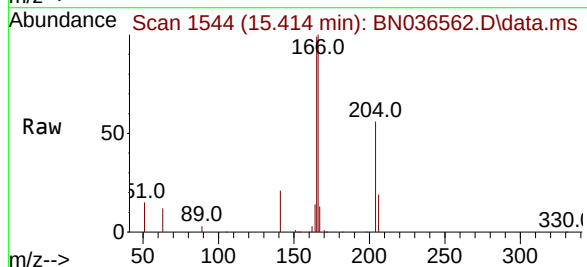
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

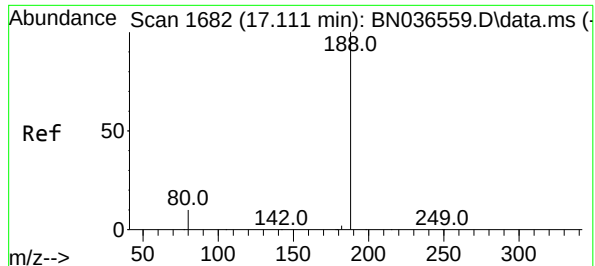
Tgt Ion:154 Resp: 42378
Ion Ratio Lower Upper
154 100
153 114.6 94.1 141.1
152 58.9 49.8 74.6



#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

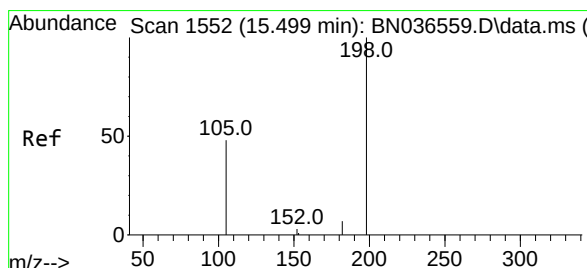
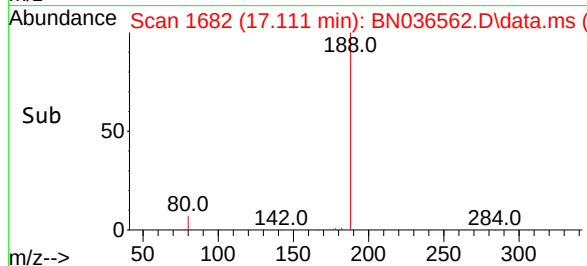
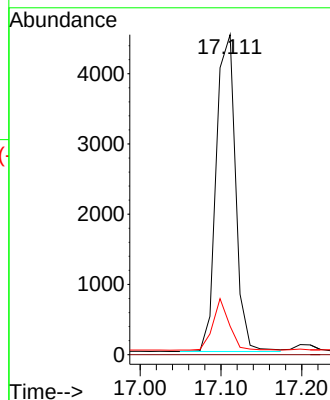
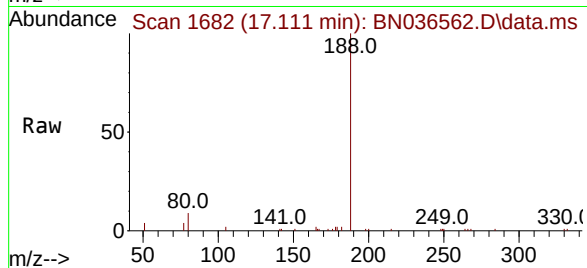
Tgt Ion:188 Resp: 7488

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

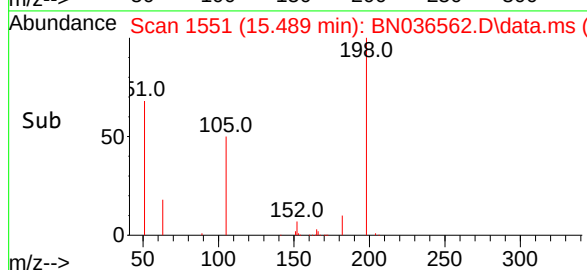
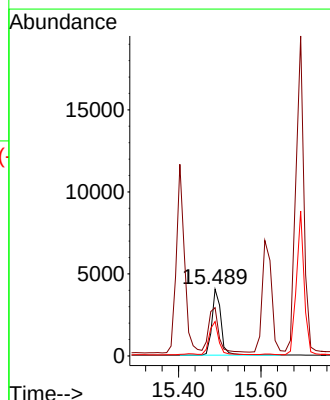
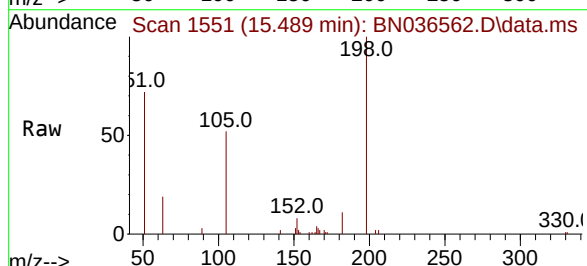
Tgt Ion:198 Resp: 6567

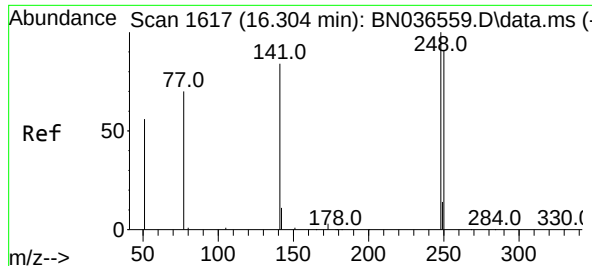
Ion Ratio Lower Upper

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

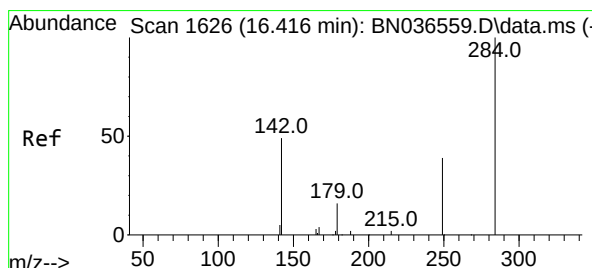
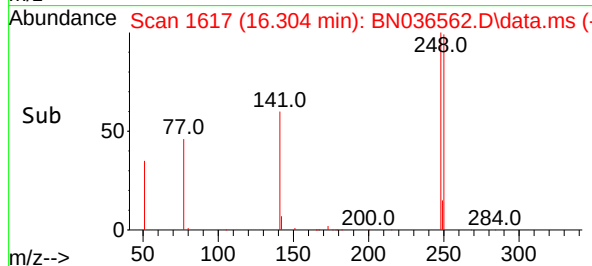
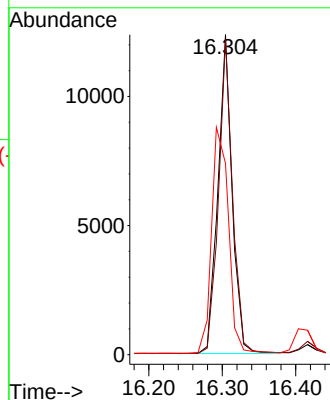
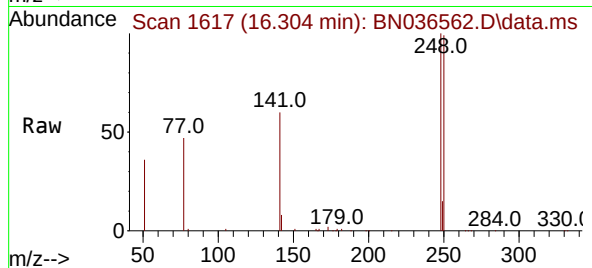
Tgt Ion:248 Resp: 16652

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

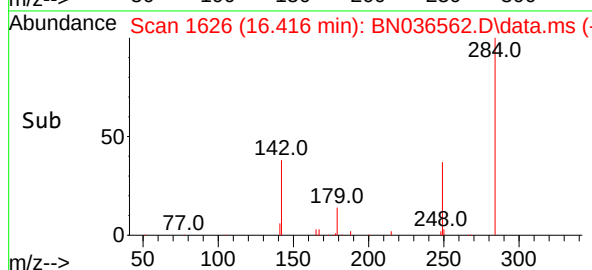
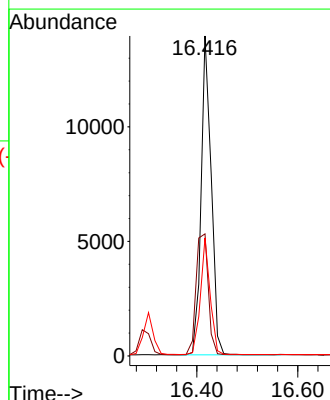
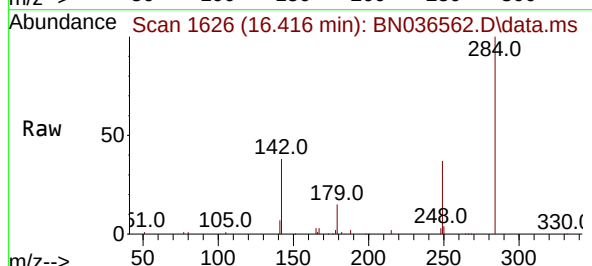
Tgt Ion:284 Resp: 19287

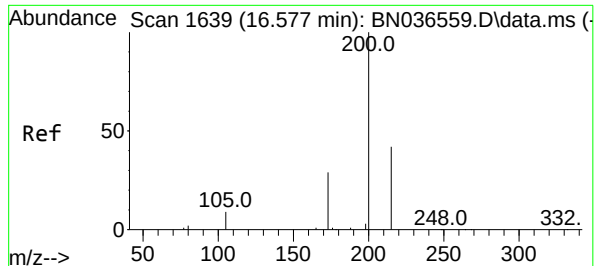
Ion Ratio Lower Upper

284 100

142 46.2 37.0 55.4

249 35.5 28.1 42.1

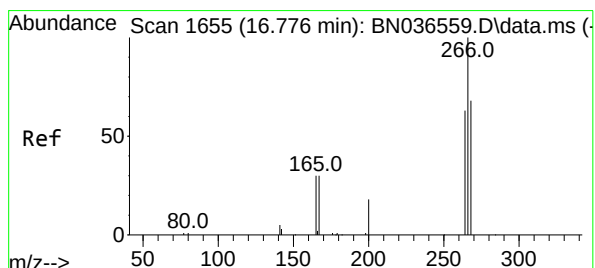
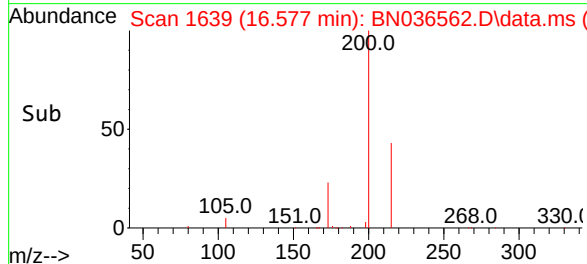
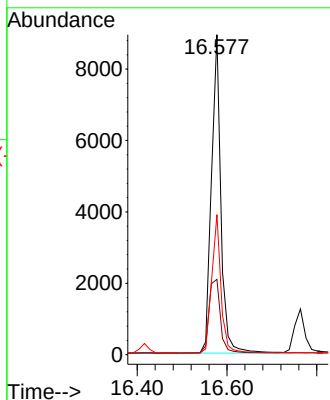
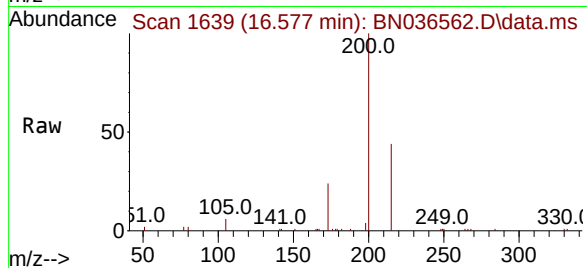




#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

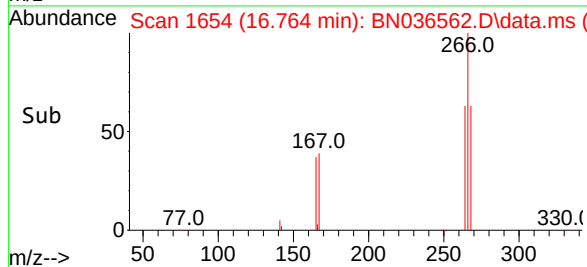
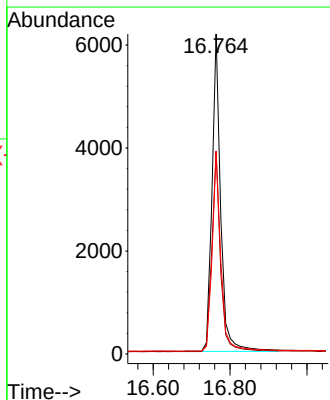
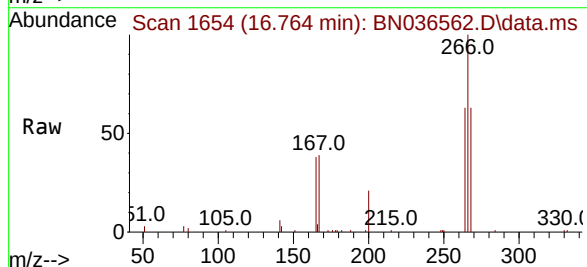
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

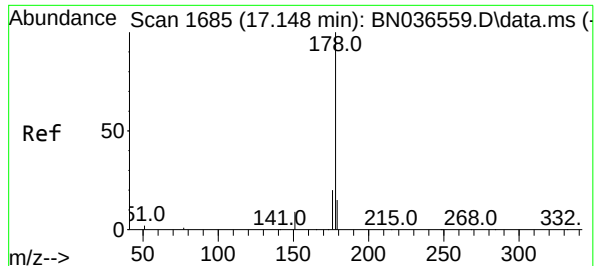
Tgt Ion:200 Resp: 12969
Ion Ratio Lower Upper
200 100
173 23.6 27.3 40.9#
215 43.7 36.8 55.2



#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

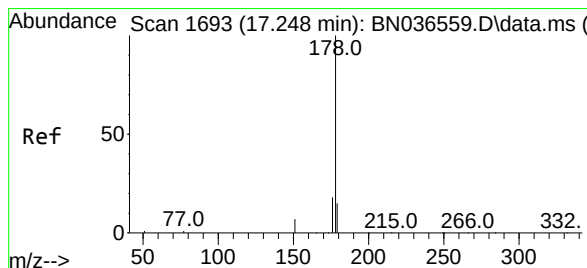
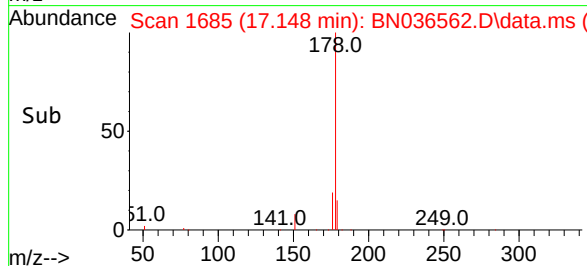
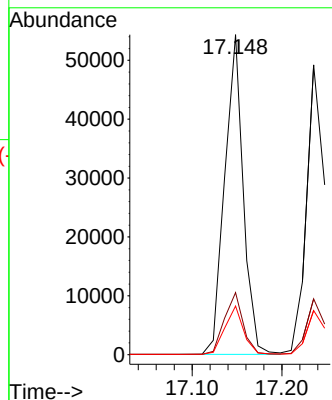
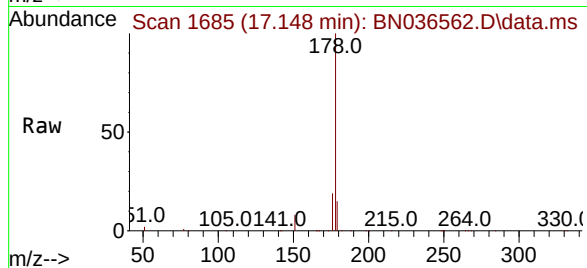
Tgt Ion:178 Resp: 77903

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

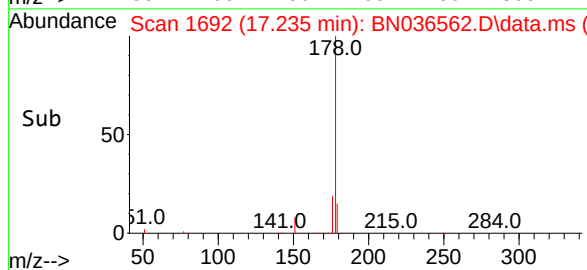
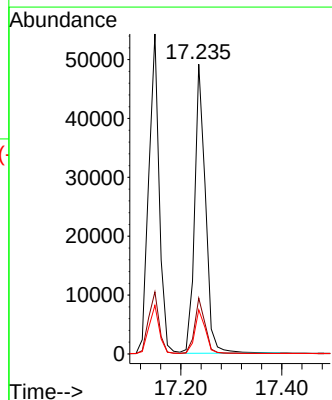
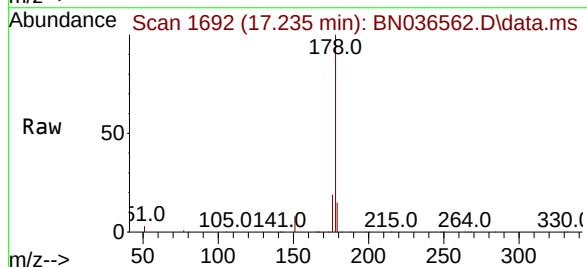
Tgt Ion:178 Resp: 72775

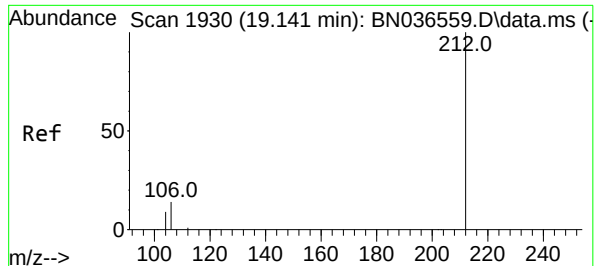
Ion Ratio Lower Upper

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

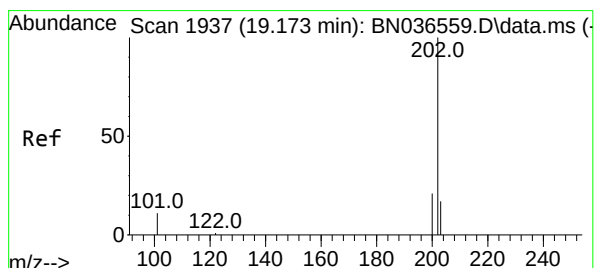
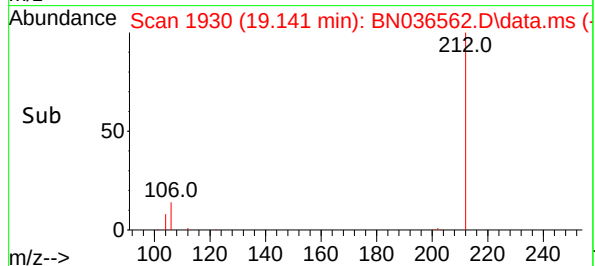
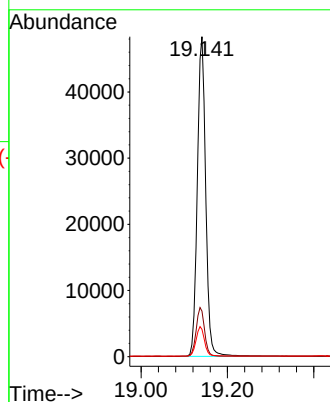
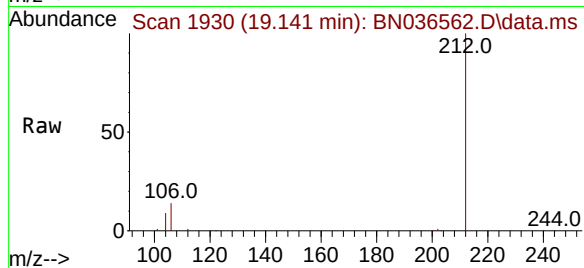
Tgt Ion:212 Resp: 65134

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

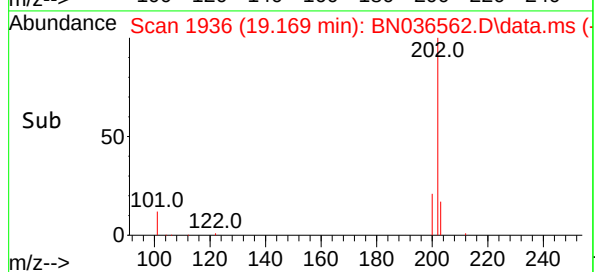
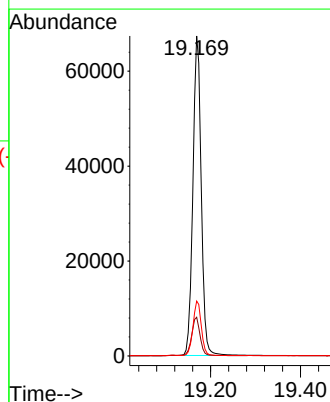
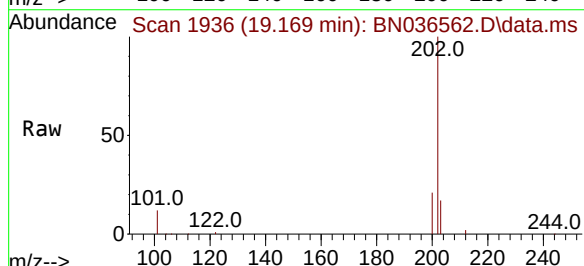
Tgt Ion:202 Resp: 86688

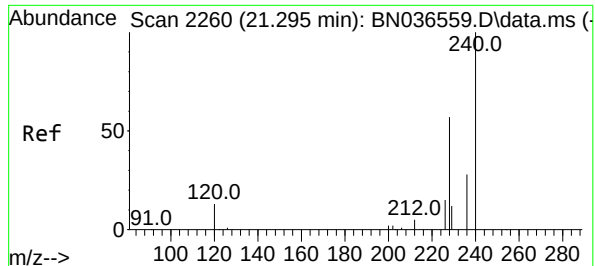
Ion Ratio Lower Upper

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

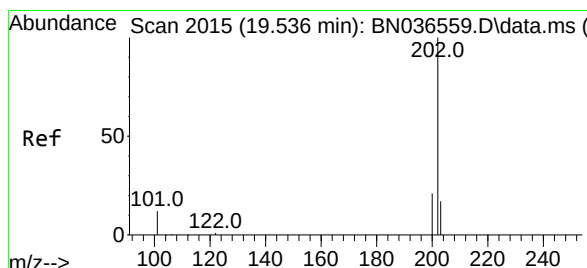
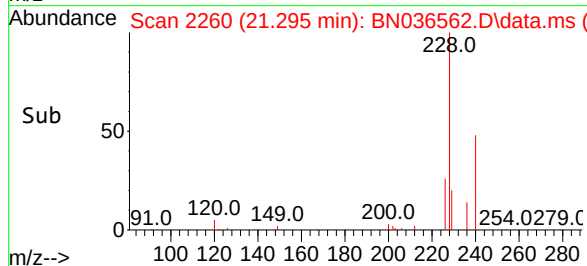
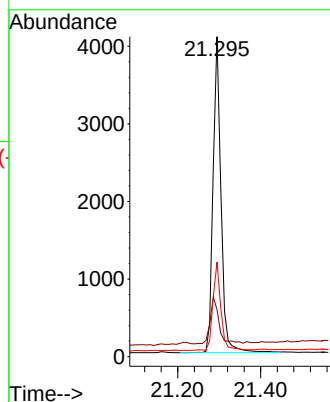
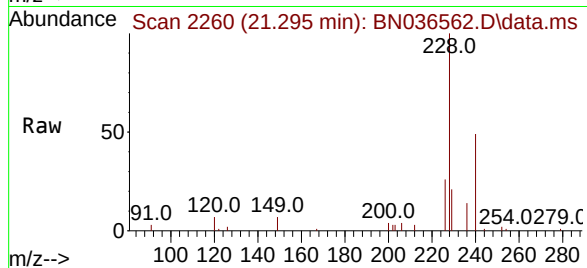
Tgt Ion:240 Resp: 5439

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

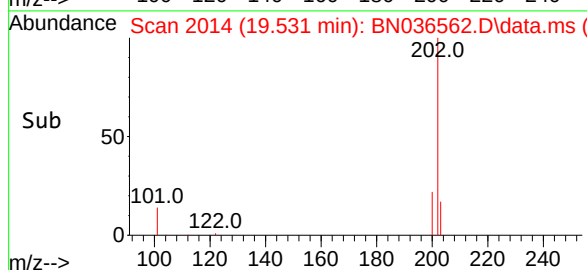
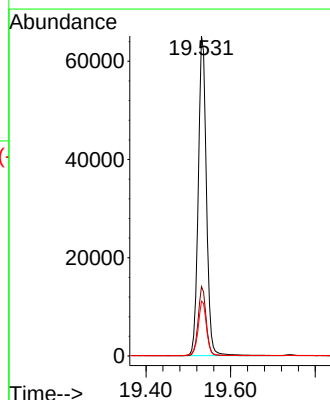
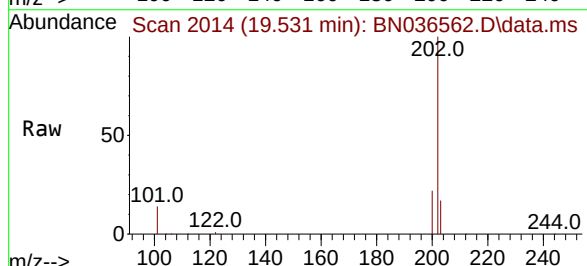
Tgt Ion:202 Resp: 86694

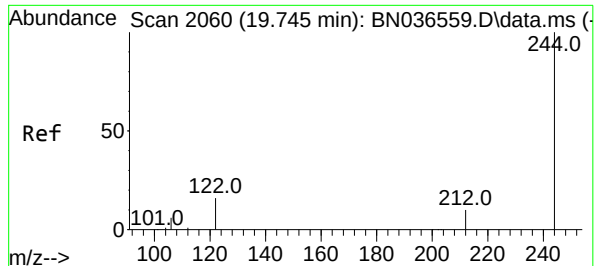
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

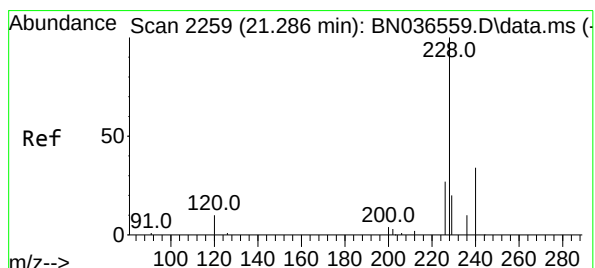
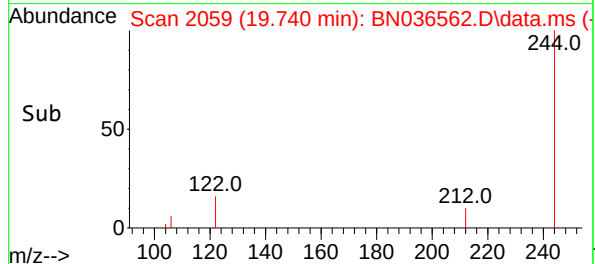
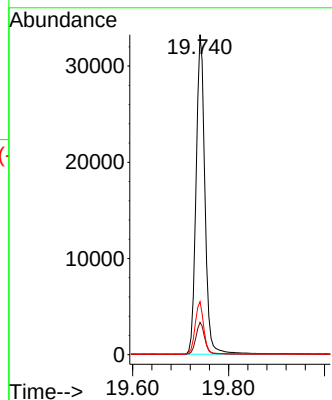
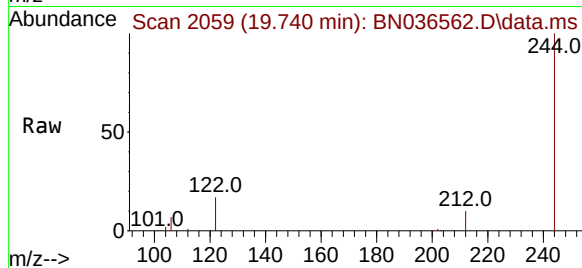




#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

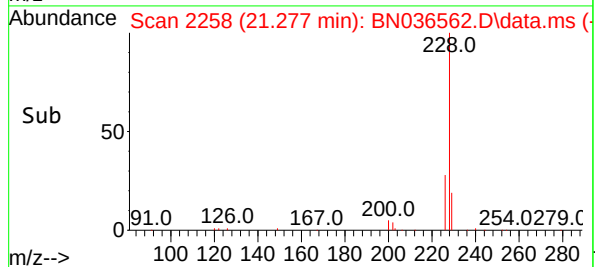
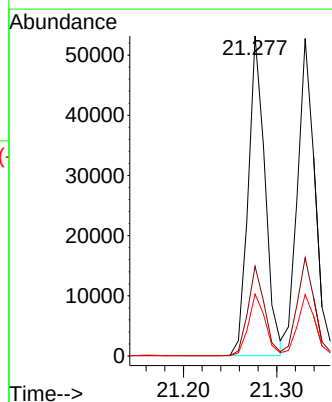
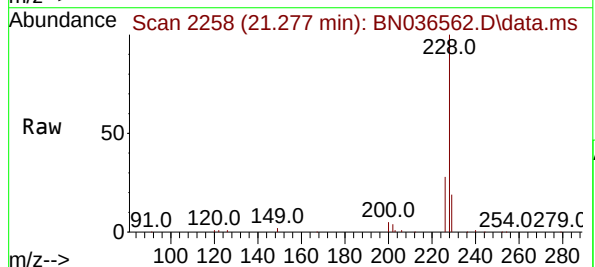
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

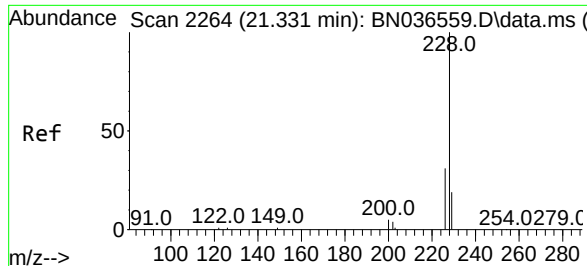
Tgt Ion:244 Resp: 42959
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 16.6 13.9 20.9



#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

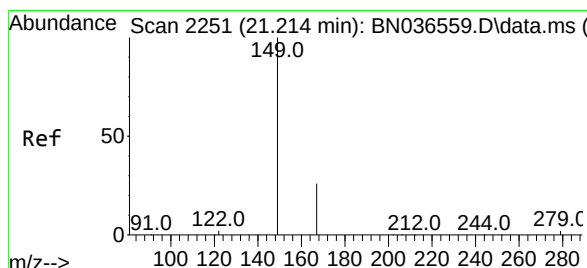
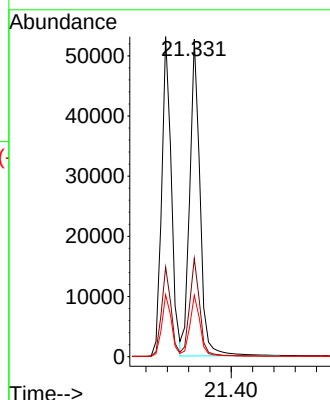
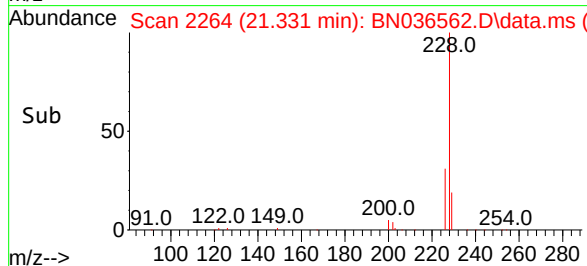
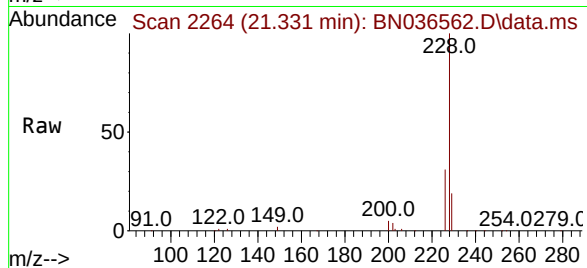
Tgt Ion:228 Resp: 70334

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

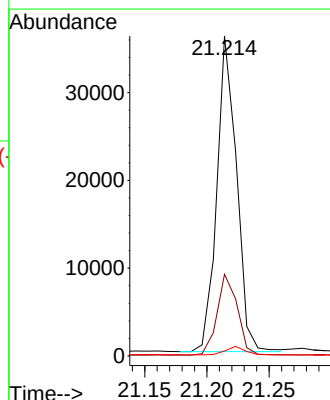
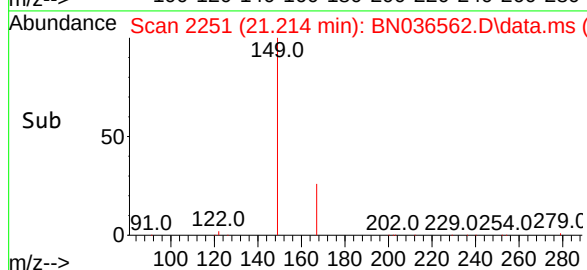
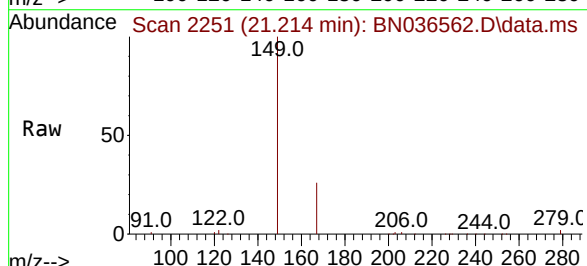
Tgt Ion:149 Resp: 39682

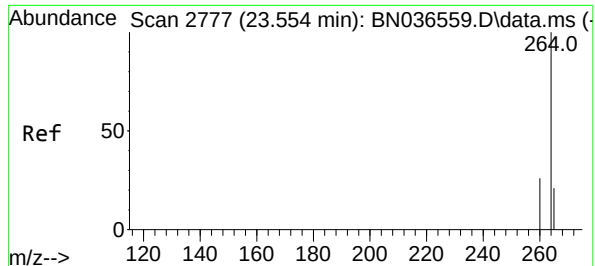
Ion Ratio Lower Upper

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

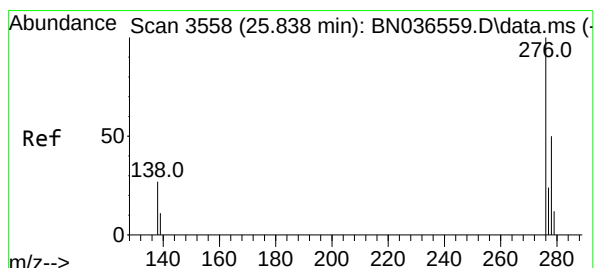
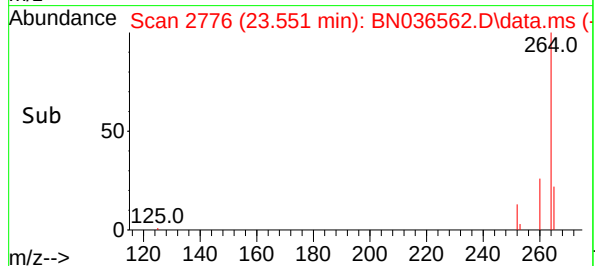
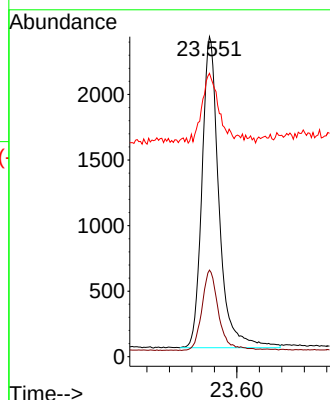
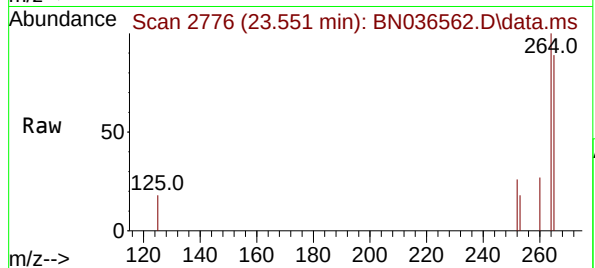
Tgt Ion:264 Resp: 5002

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

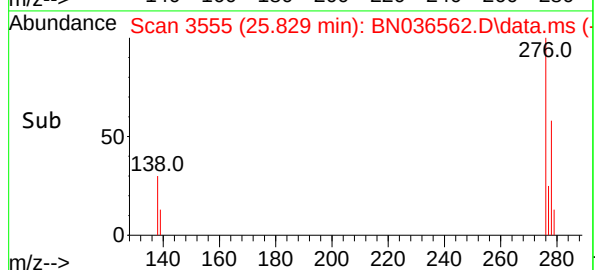
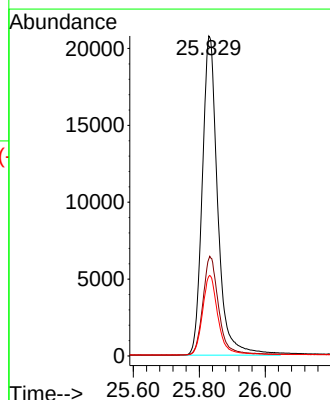
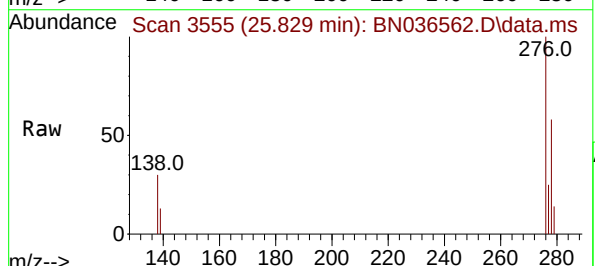
Tgt Ion:276 Resp: 67767

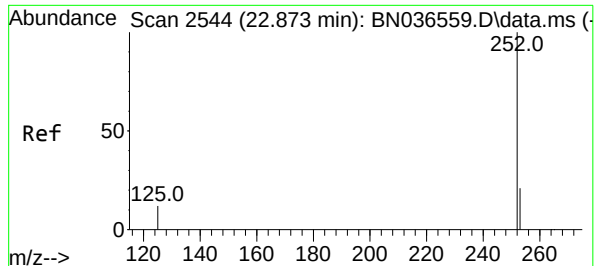
Ion Ratio Lower Upper

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

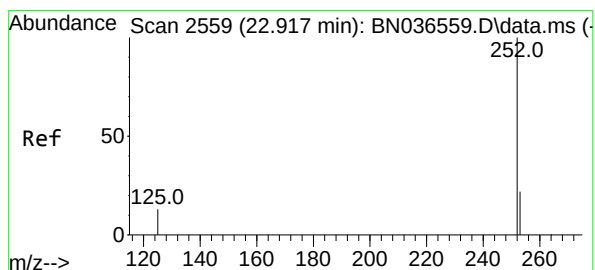
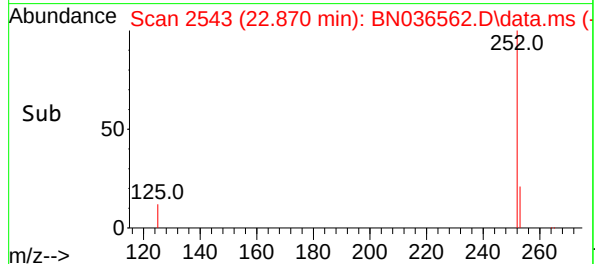
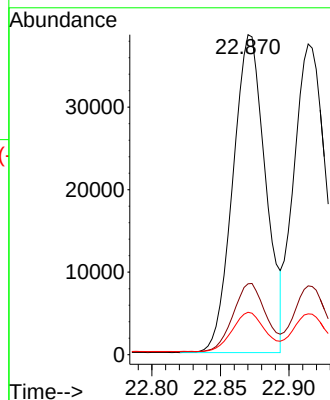
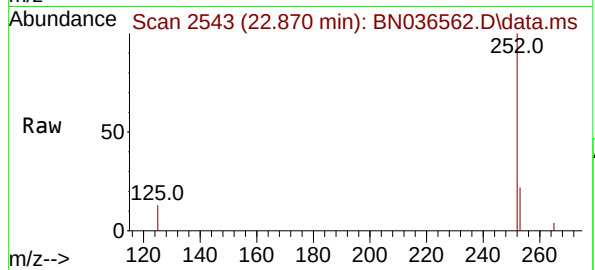
Tgt Ion:252 Resp: 63823

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

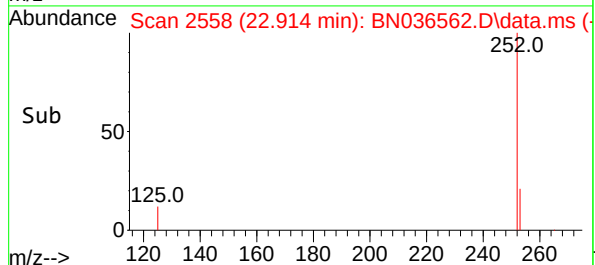
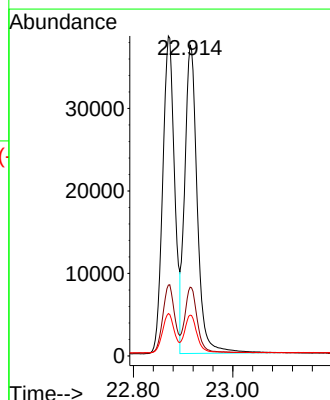
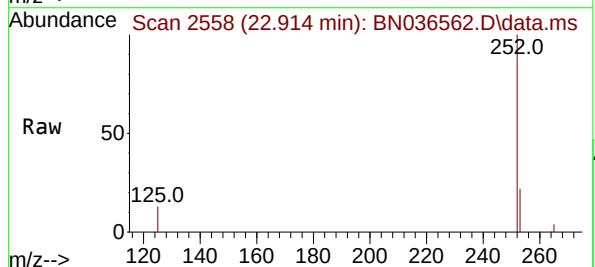
Tgt Ion:252 Resp: 65410

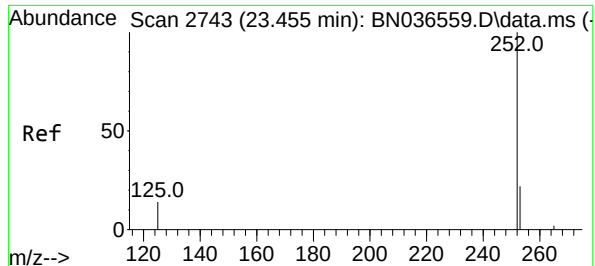
Ion Ratio Lower Upper

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

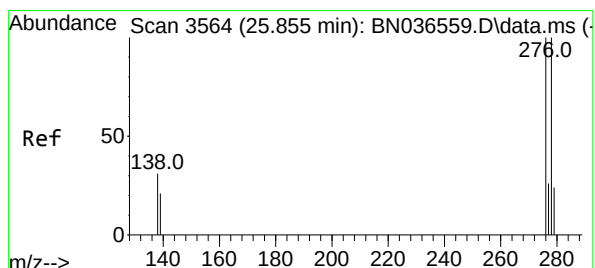
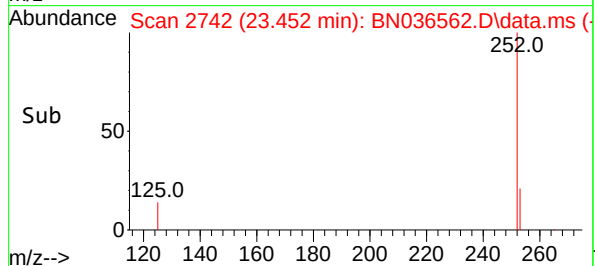
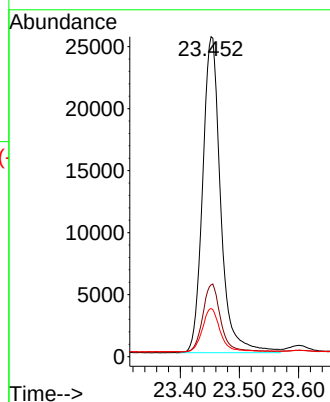
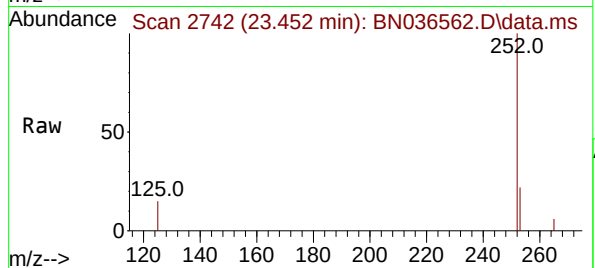
Tgt Ion:252 Resp: 54009

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

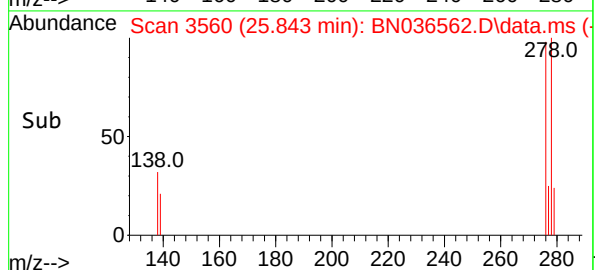
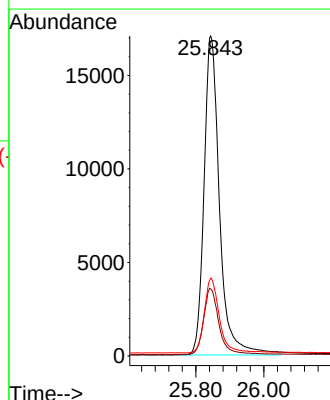
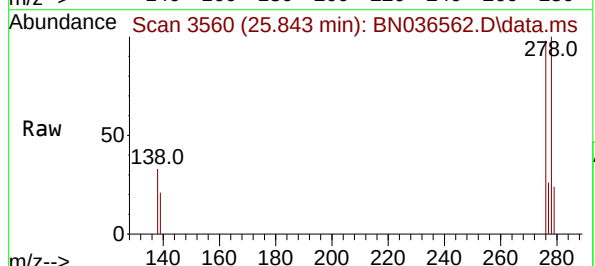
Tgt Ion:278 Resp: 54058

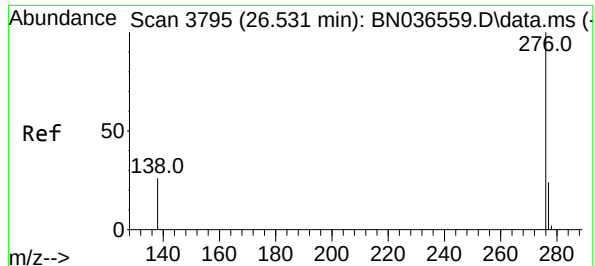
Ion Ratio Lower Upper

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

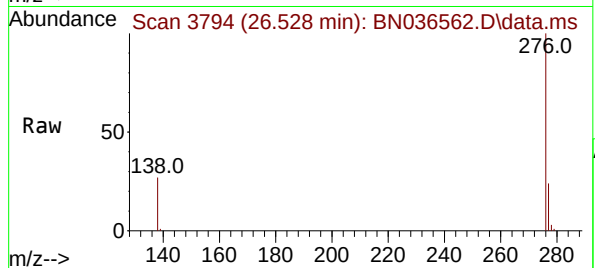
Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



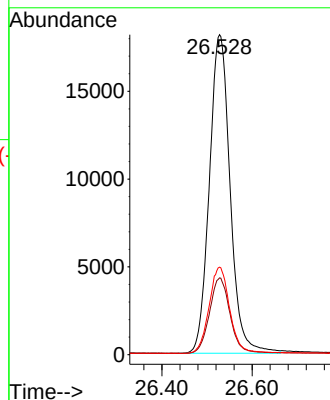
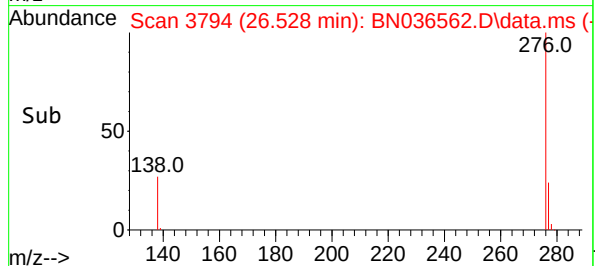
Tgt Ion:276 Resp: 57986

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

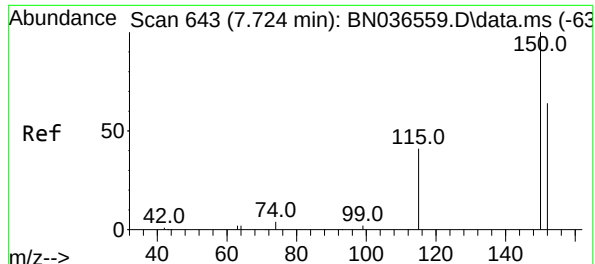
Quant Time: Mar 10 16:03:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

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

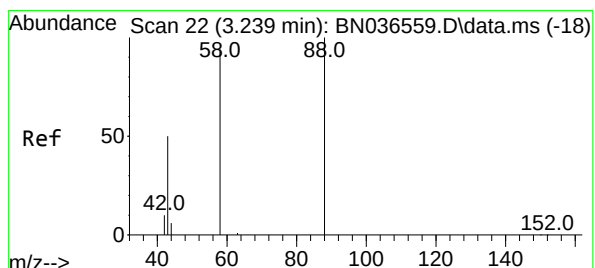
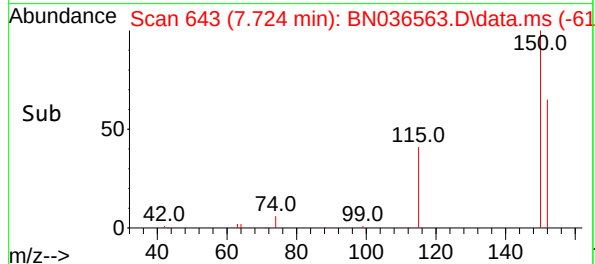
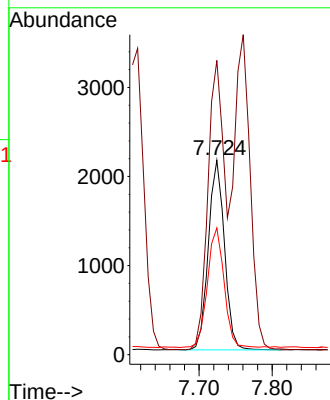
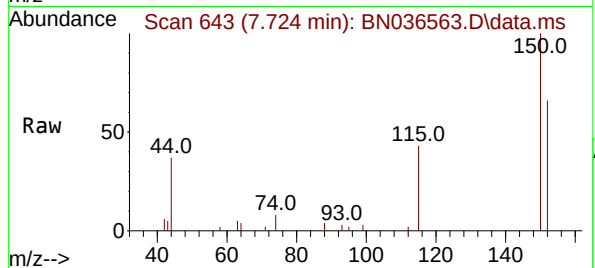
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

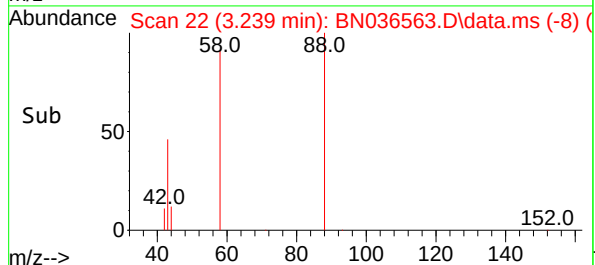
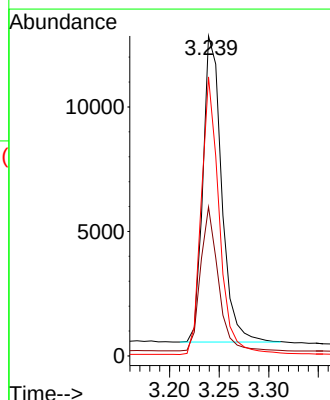
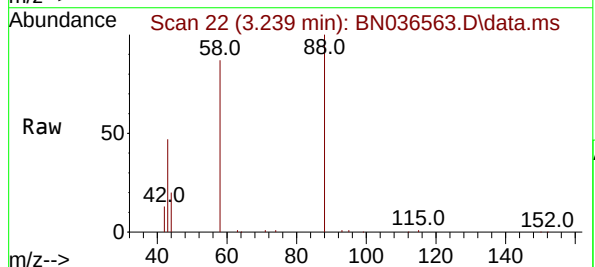
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

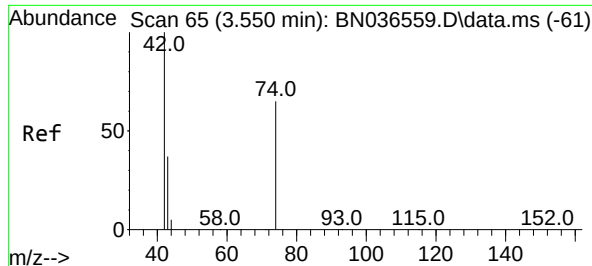
Tgt Ion:152 Resp: 3261
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 65.2 54.3 81.5



#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

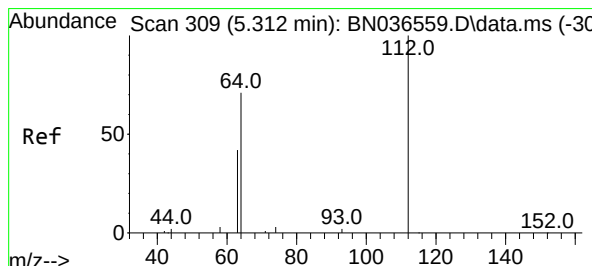
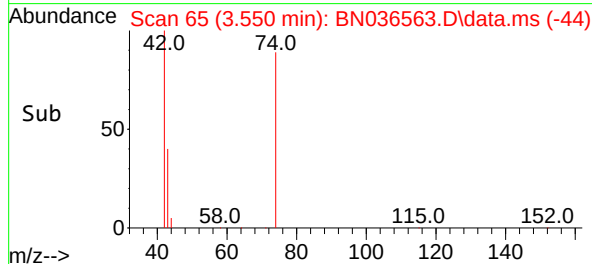
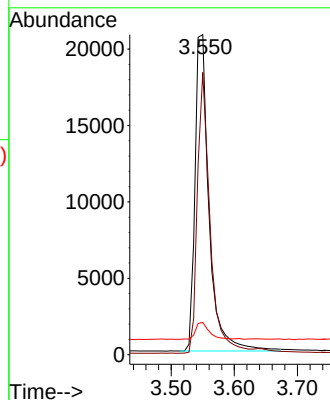
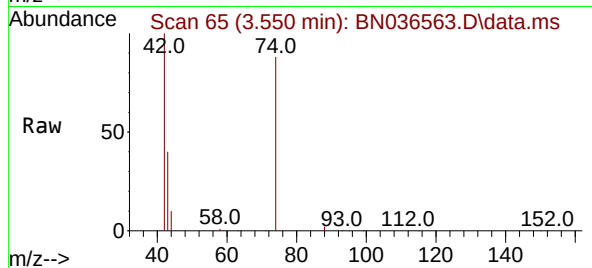




#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

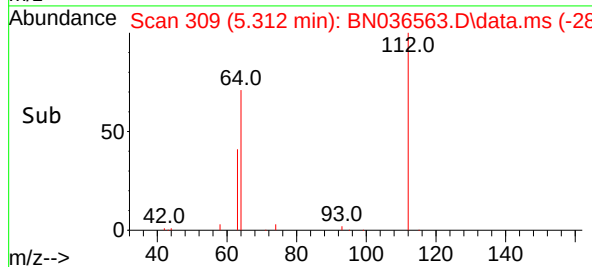
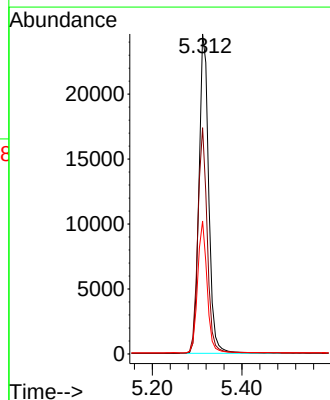
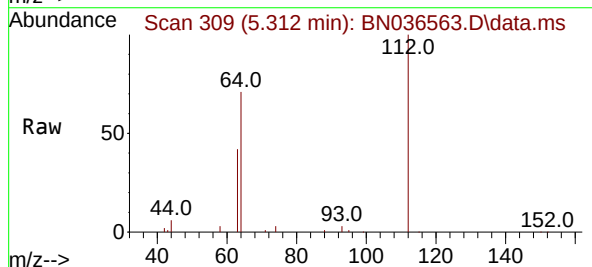
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

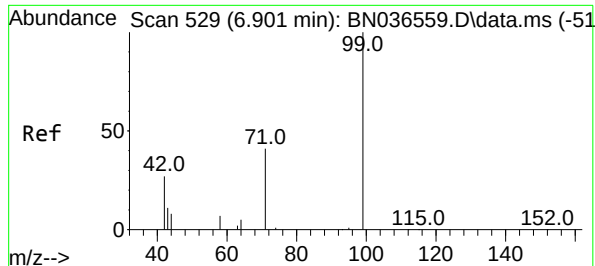
Tgt Ion: 42 Resp: 32163
Ion Ratio Lower Upper
42 100
74 79.9 60.6 90.8
44 5.3 6.3 9.5#



#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

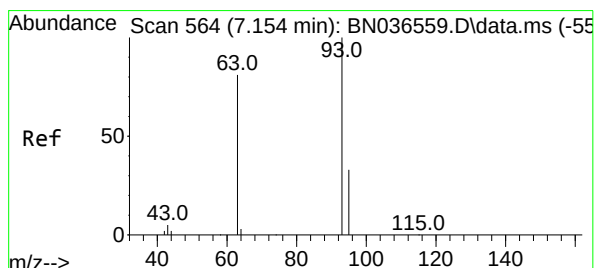
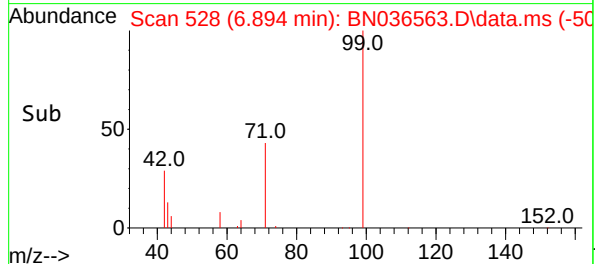
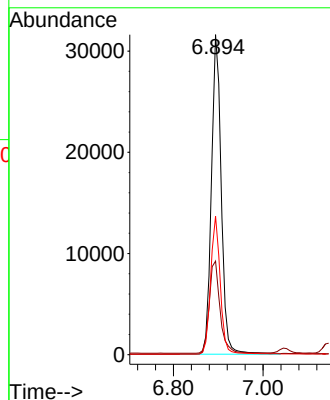
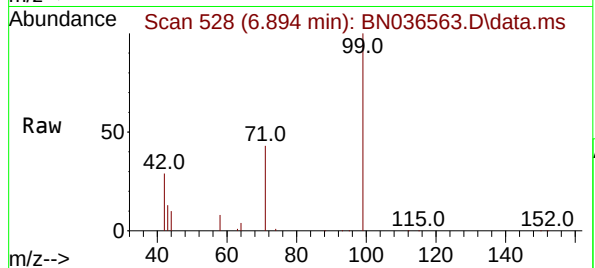




#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

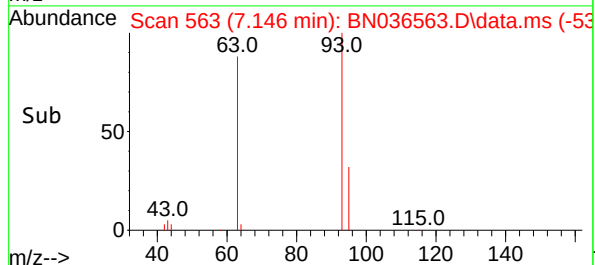
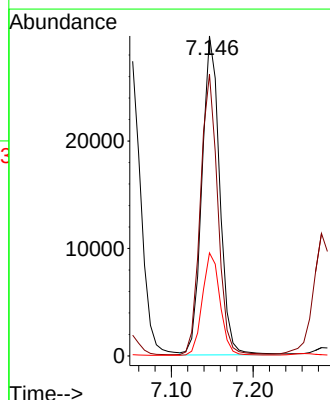
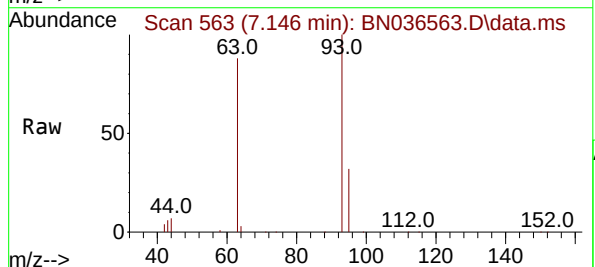
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

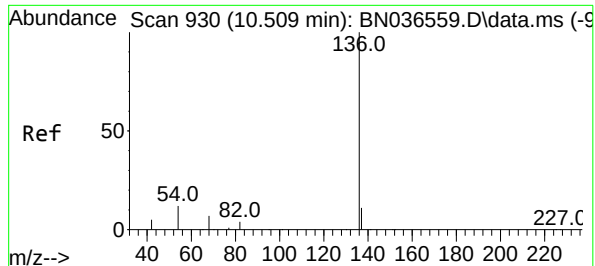
Tgt Ion: 99 Resp: 48085
Ion Ratio Lower Upper
99 100
42 31.8 26.5 39.7
71 42.6 34.1 51.1



#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

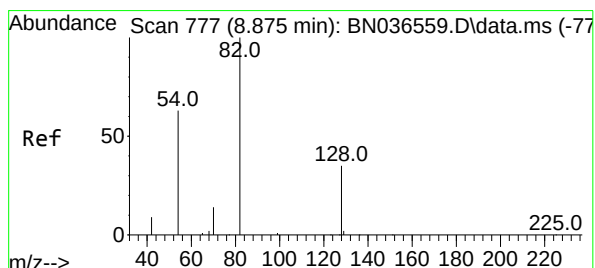
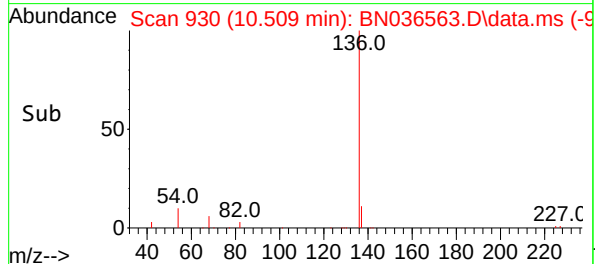
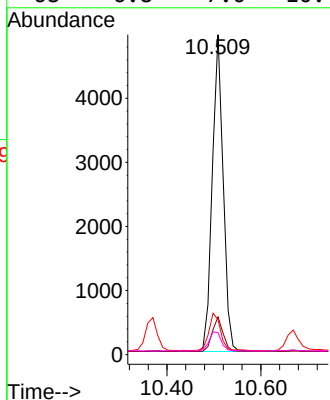
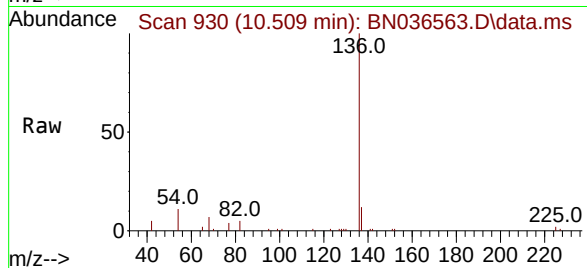




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

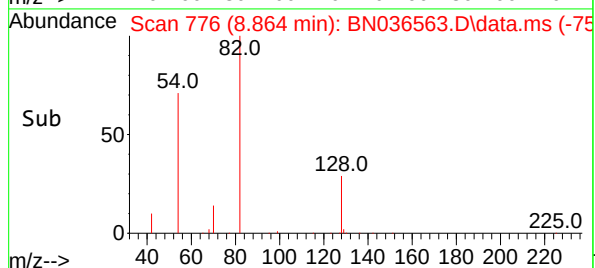
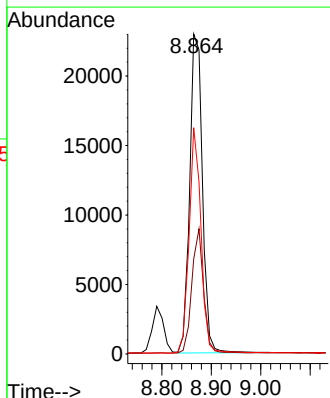
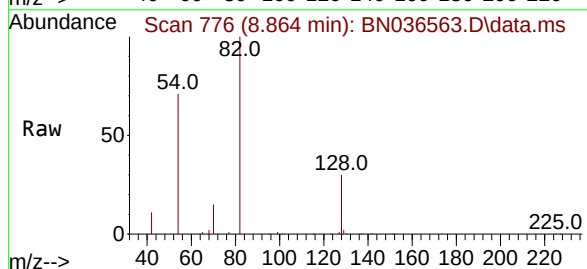
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

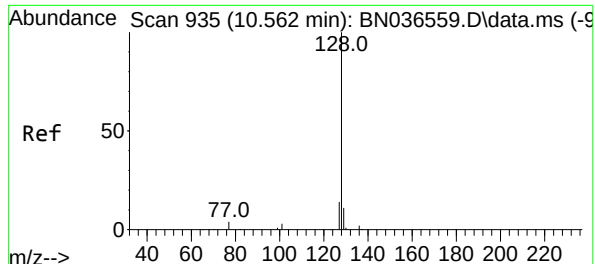
Tgt Ion:	136	Resp:	7995
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#



#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

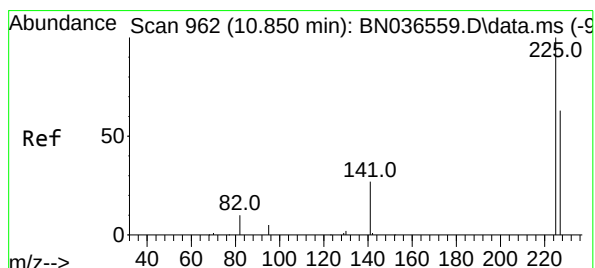
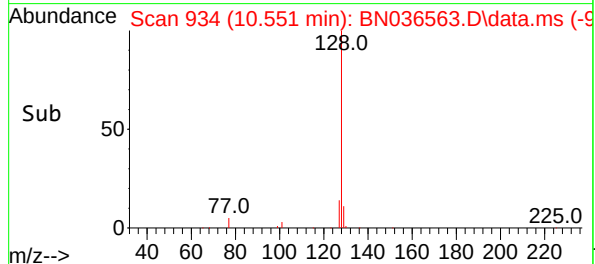
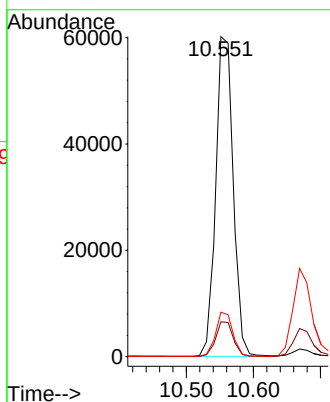
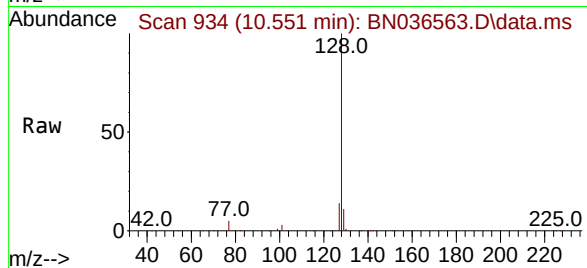




#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

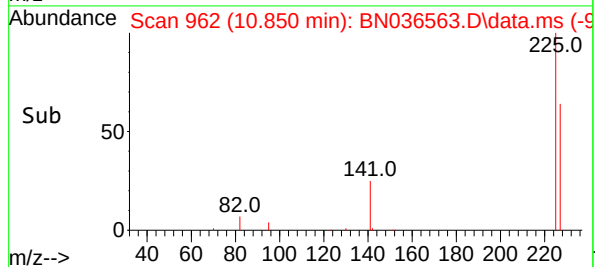
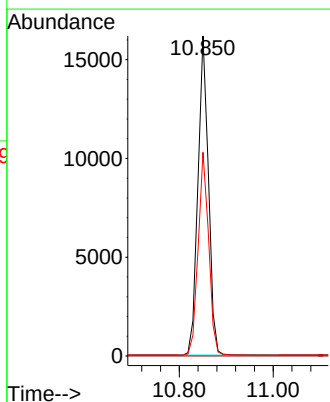
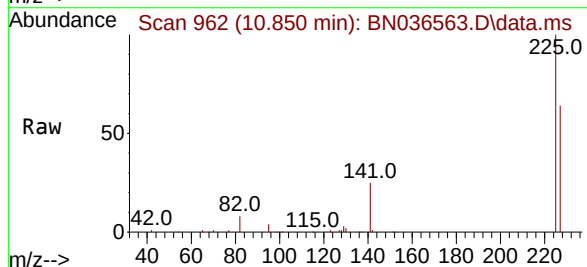
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

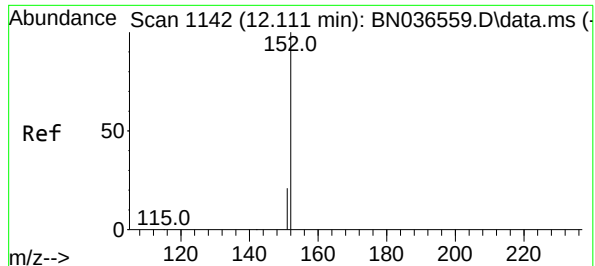
Tgt Ion:128 Resp: 109289
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.8 17.8



#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

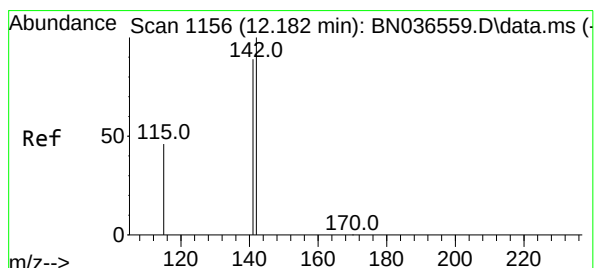
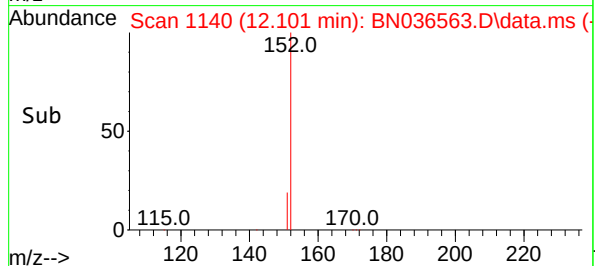
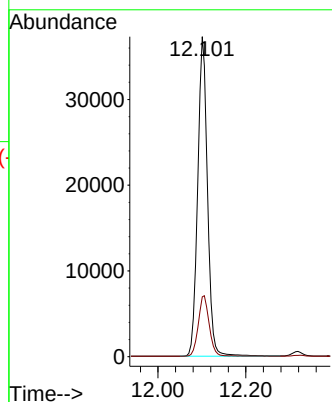
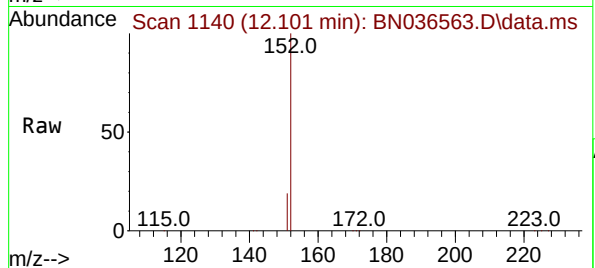




#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

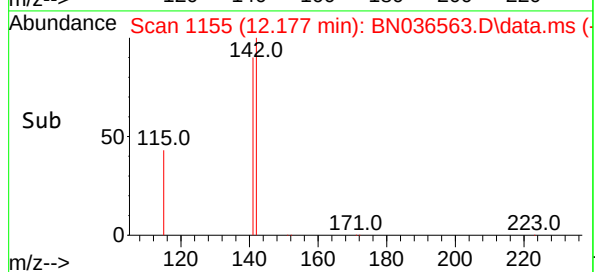
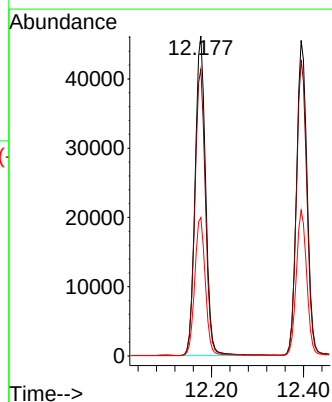
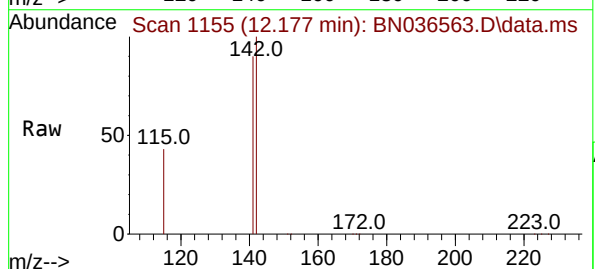
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

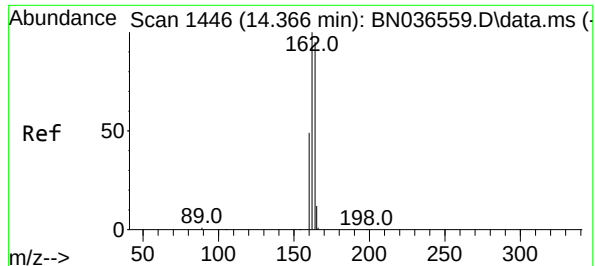
Tgt Ion:152 Resp: 58048
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#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

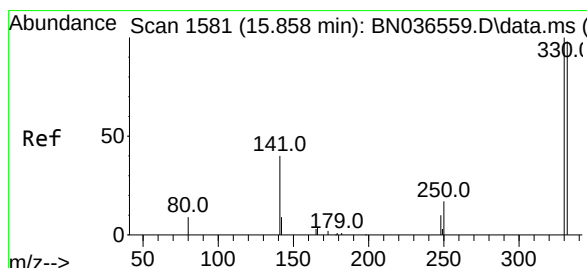
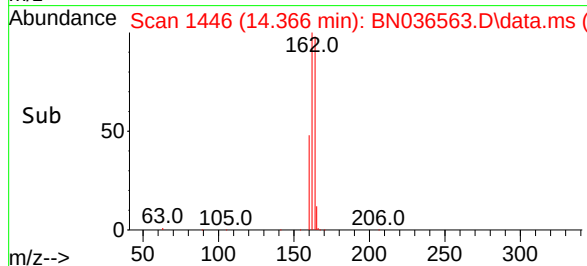
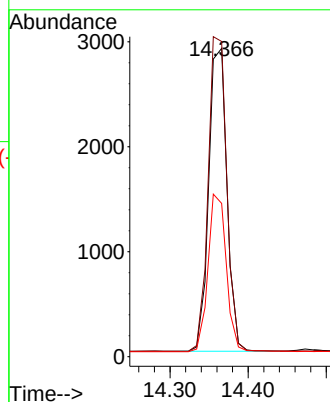
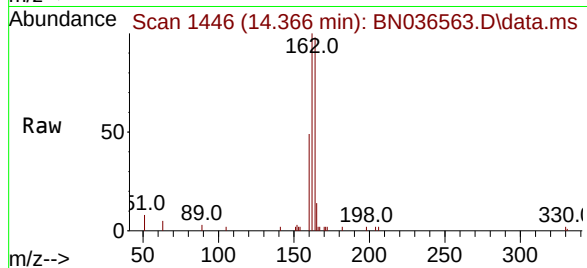
Tgt Ion:164 Resp: 4664

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

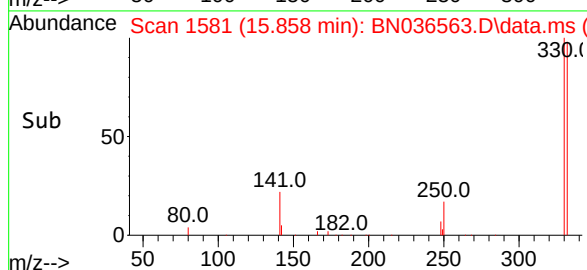
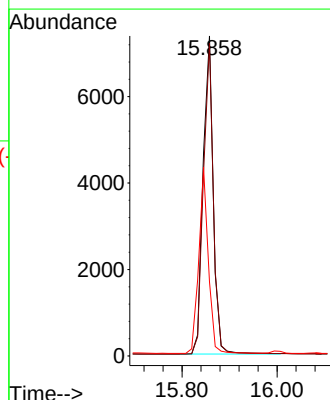
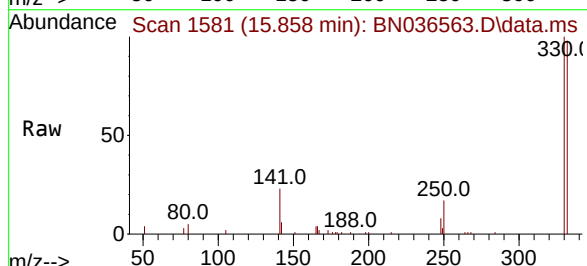
Tgt Ion:330 Resp: 10964

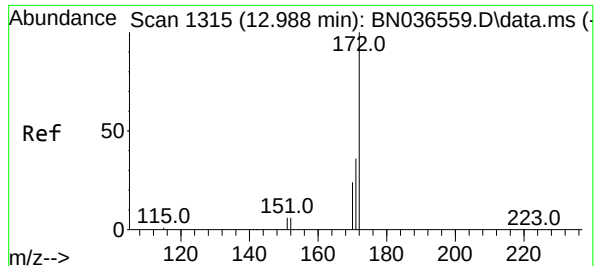
Ion Ratio Lower Upper

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

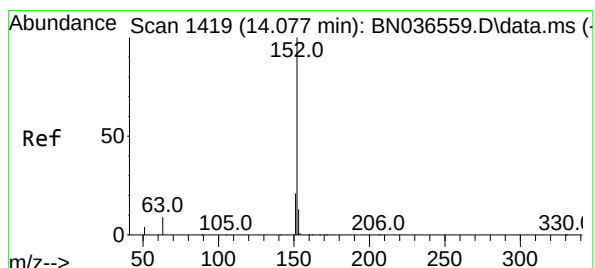
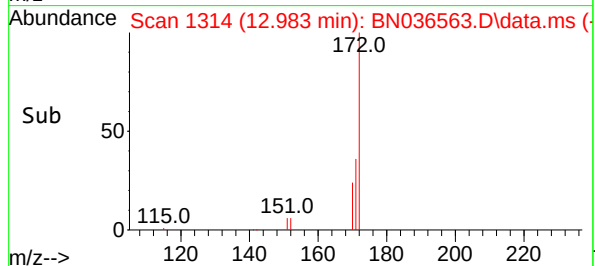
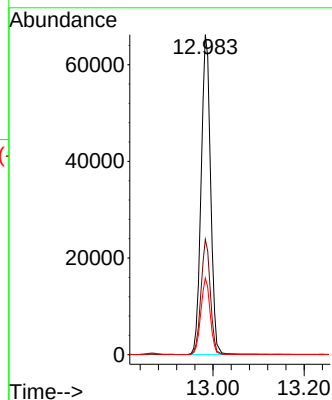
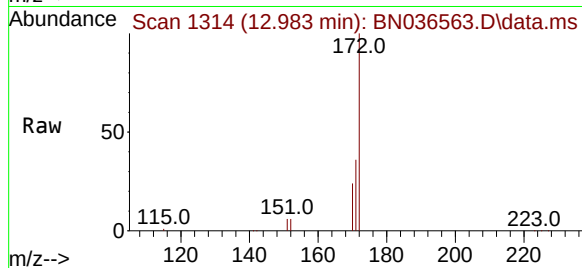
Tgt Ion:172 Resp: 141052

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

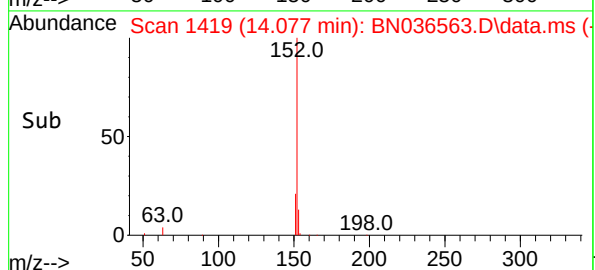
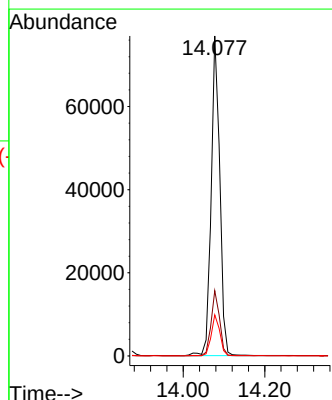
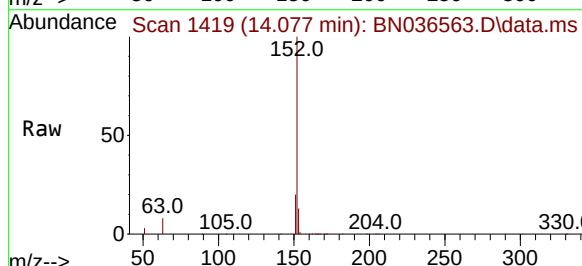
Tgt Ion:152 Resp: 112792

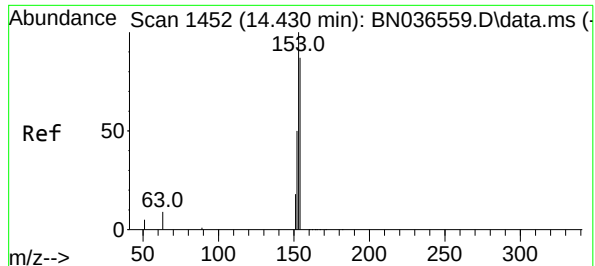
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

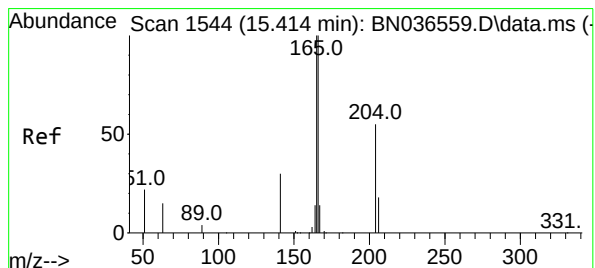
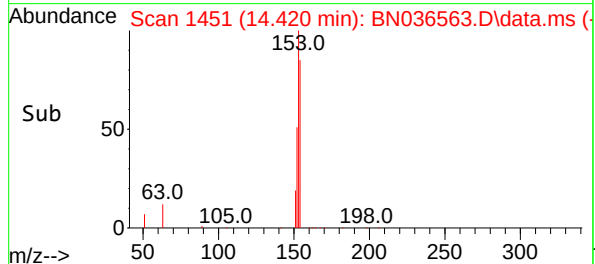
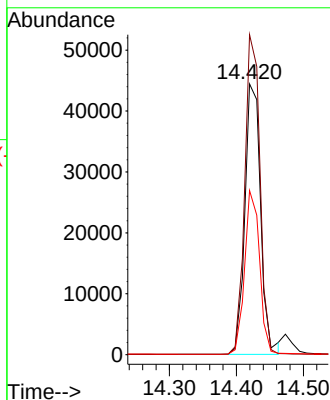
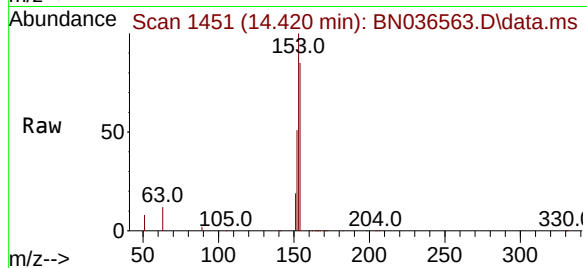




#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

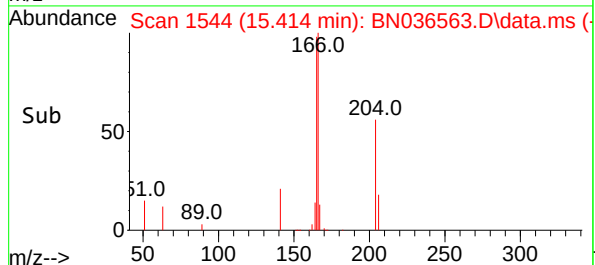
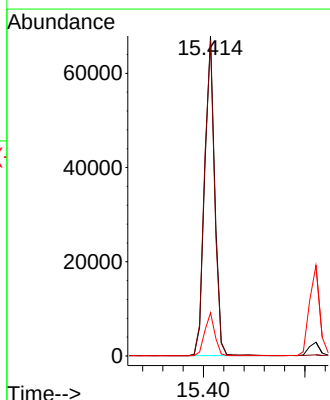
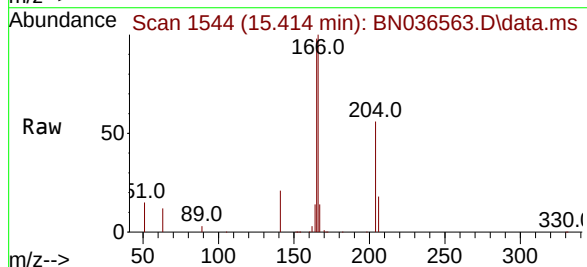
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

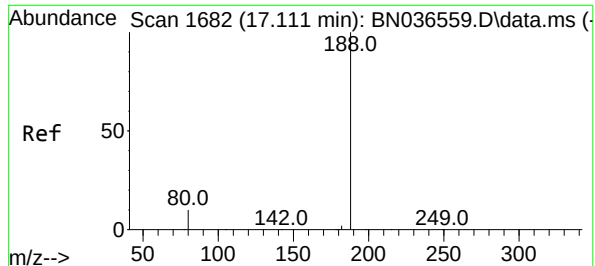
Tgt Ion:154 Resp: 72446
Ion Ratio Lower Upper
154 100
153 114.1 94.1 141.1
152 57.7 49.8 74.6



#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

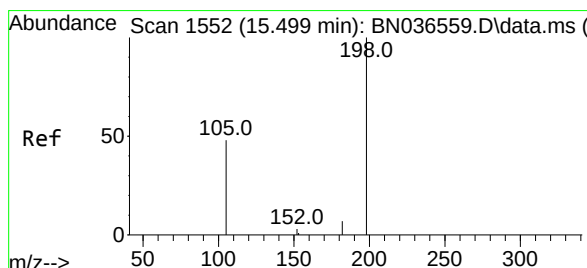
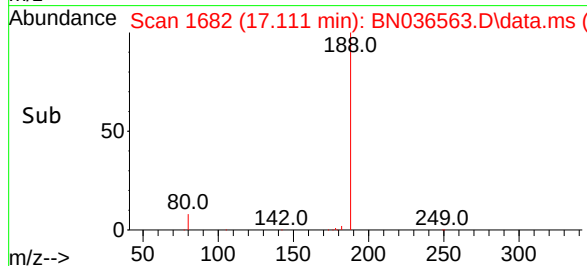
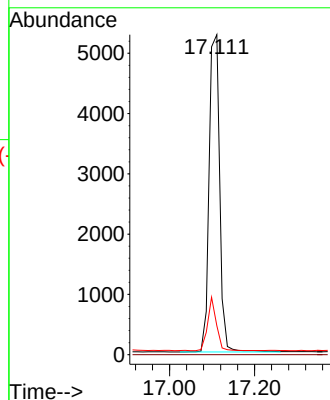
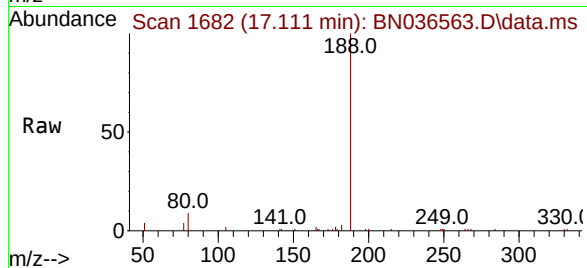
Tgt Ion:188 Resp: 9061

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

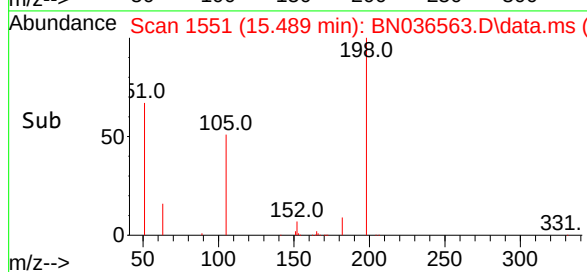
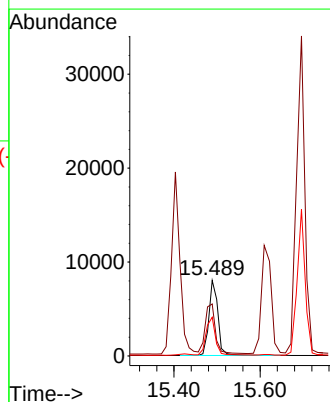
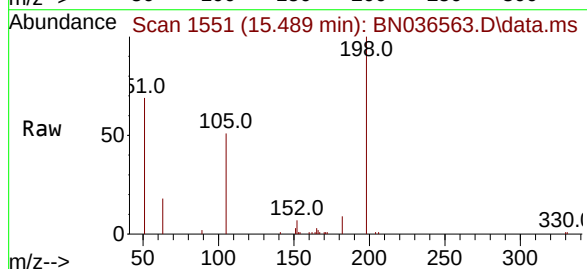
Tgt Ion:198 Resp: 12627

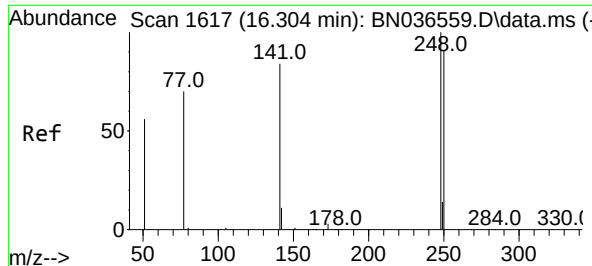
Ion Ratio Lower Upper

198 100

51 68.9 107.9 161.9#

105 51.3 56.2 84.2#

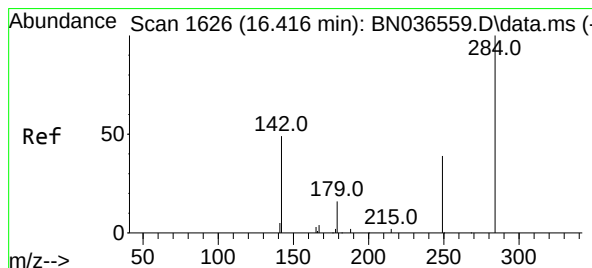
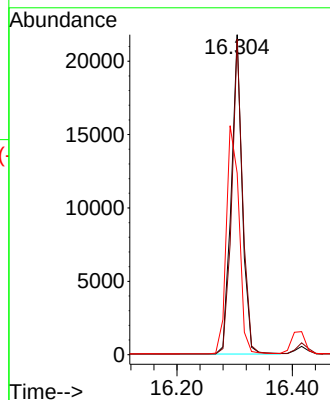
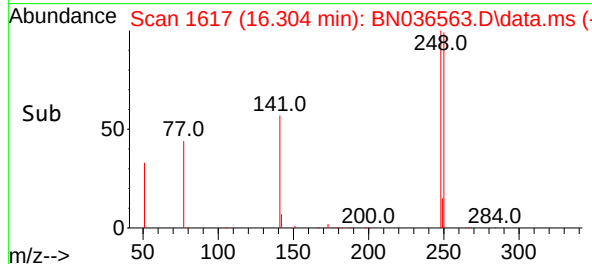
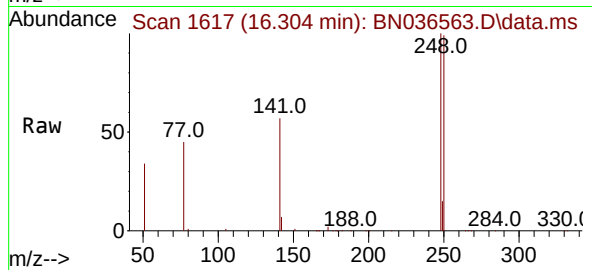




#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

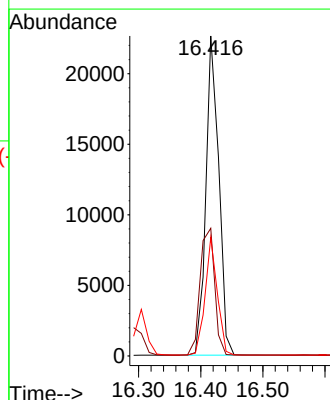
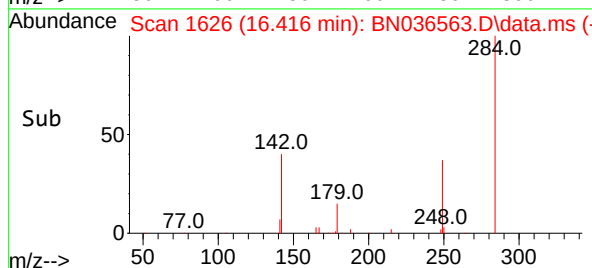
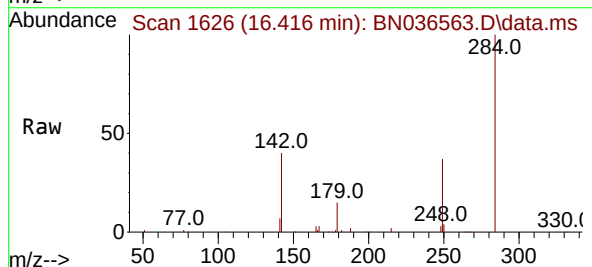
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

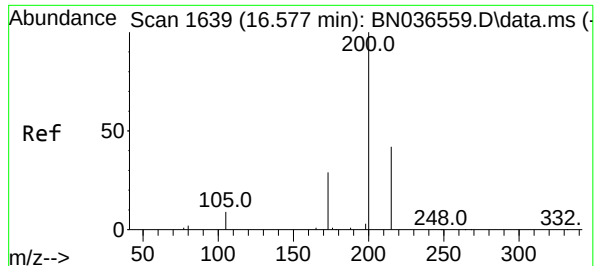
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0



#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

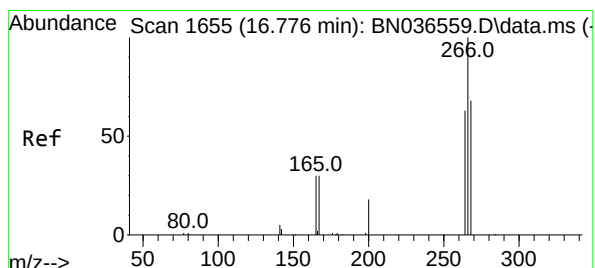
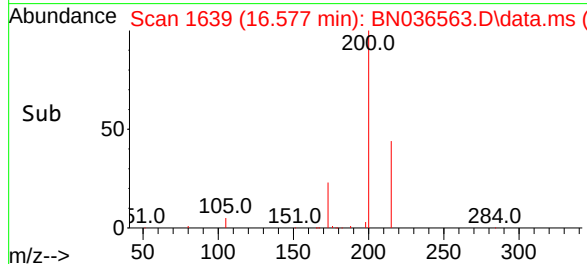
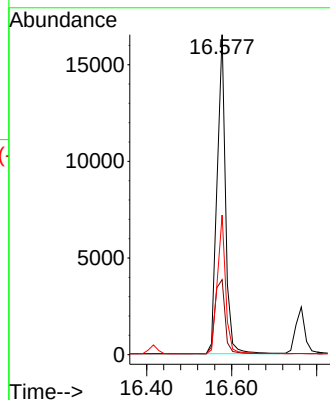
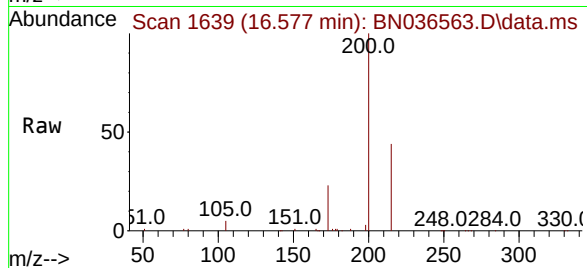




#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

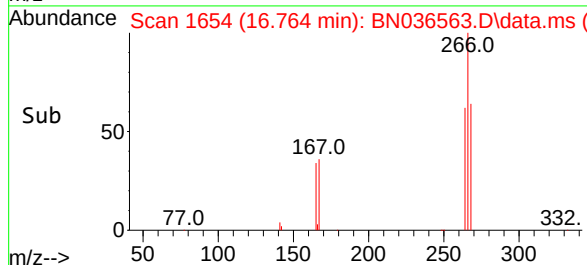
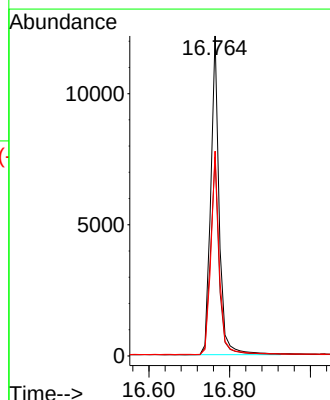
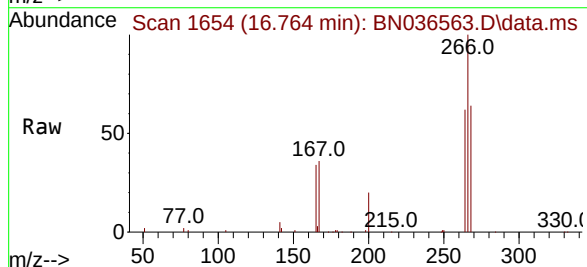
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

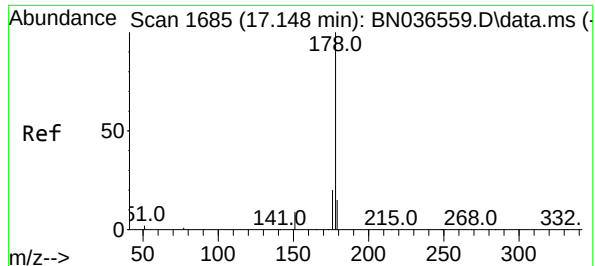
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9
215	43.7	36.8	55.2



#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

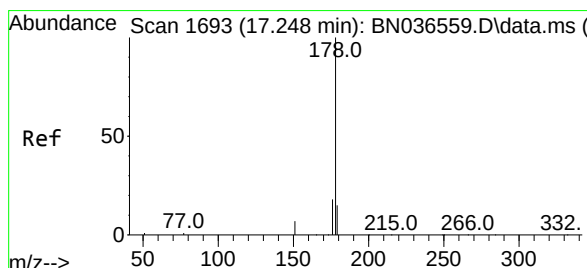
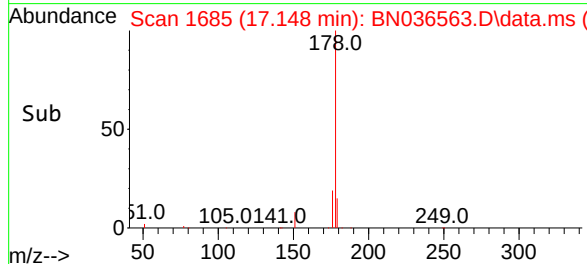
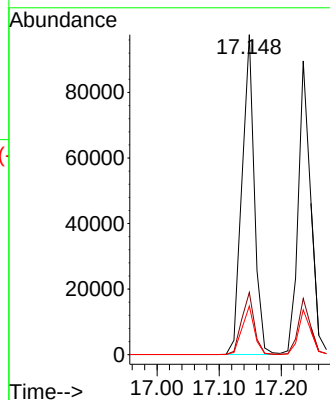
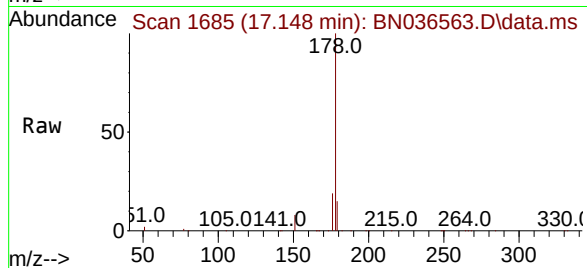
Tgt Ion:178 Resp: 135347

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

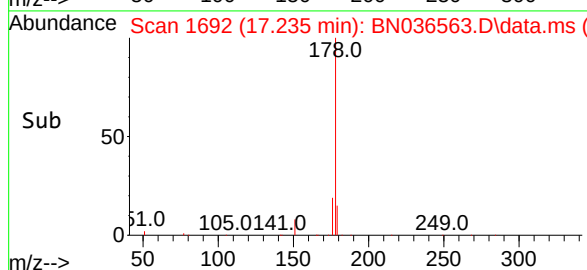
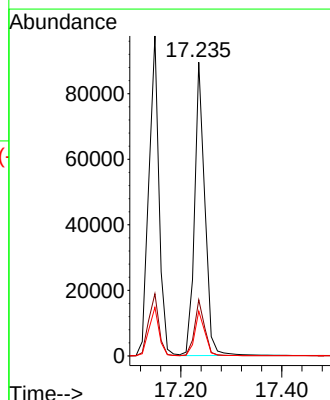
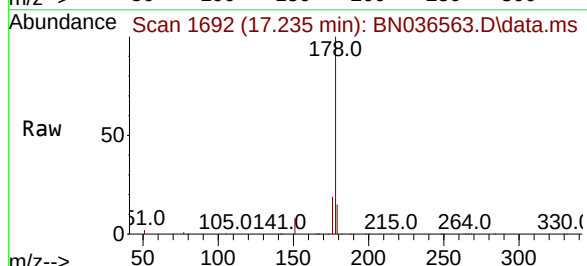
Tgt Ion:178 Resp: 125954

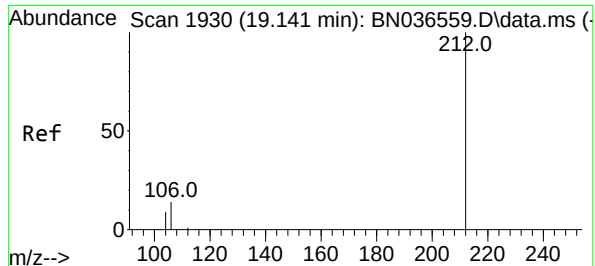
Ion Ratio Lower Upper

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

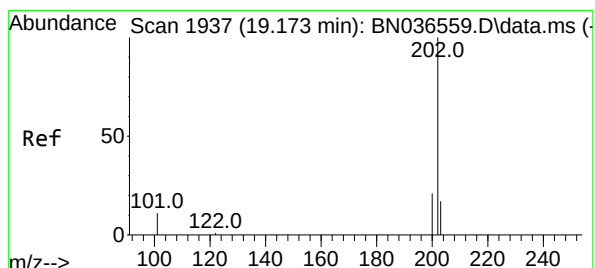
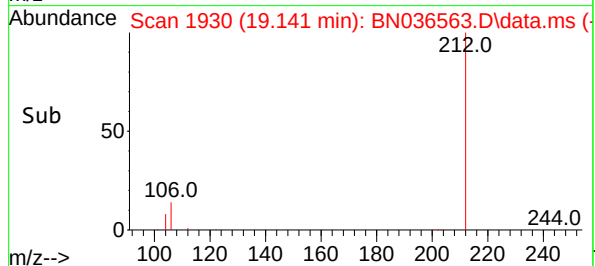
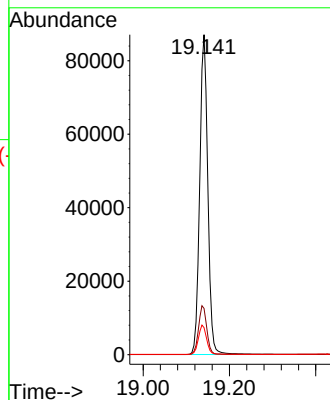
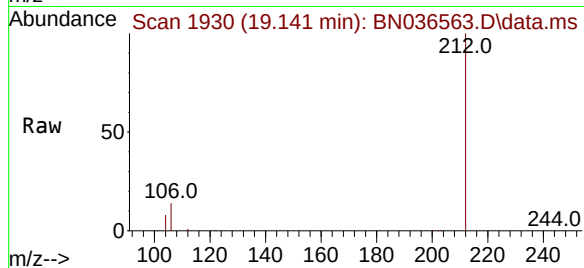
Tgt Ion:212 Resp: 113317

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

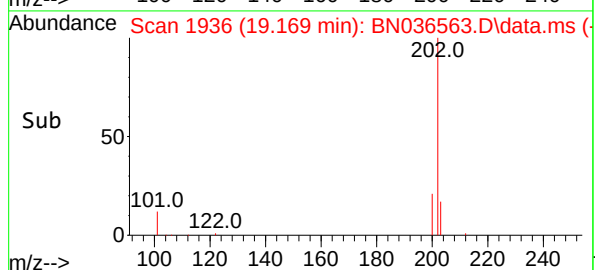
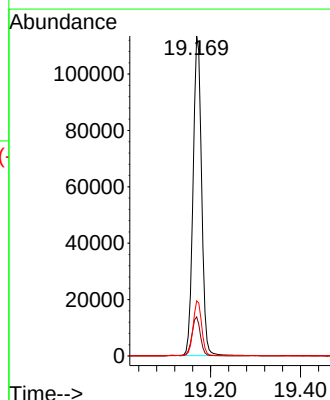
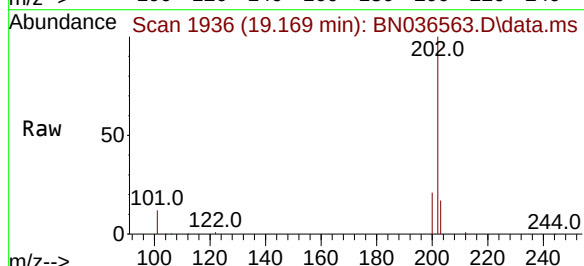
Tgt Ion:202 Resp: 149107

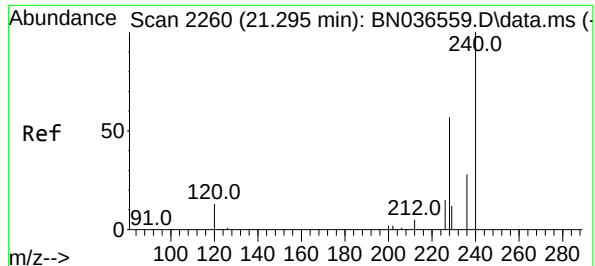
Ion Ratio Lower Upper

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

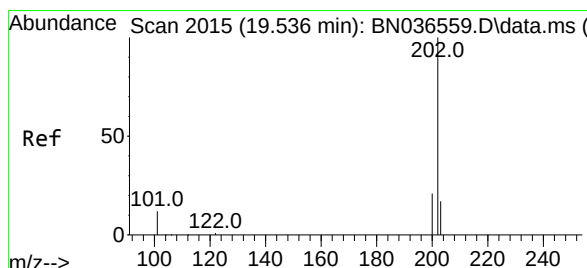
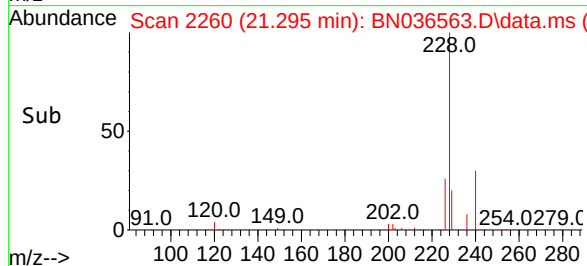
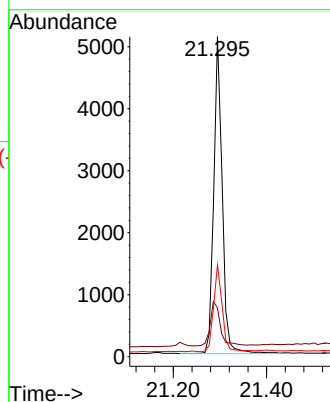
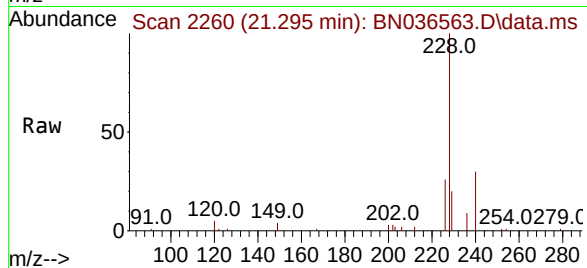
Tgt Ion:240 Resp: 6472

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

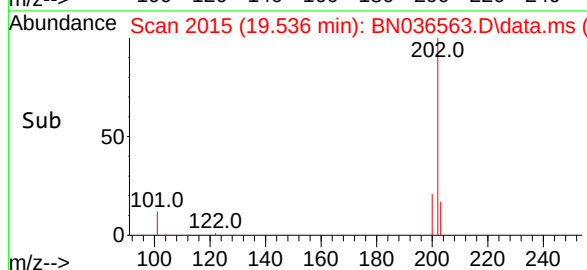
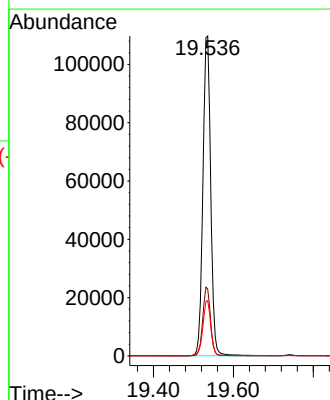
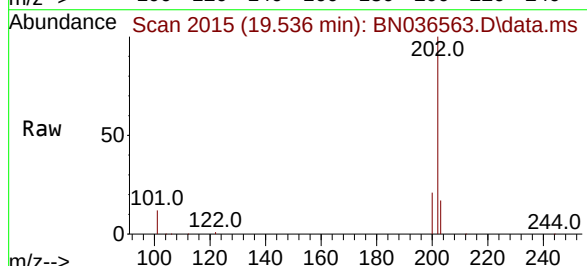
Tgt Ion:202 Resp: 148584

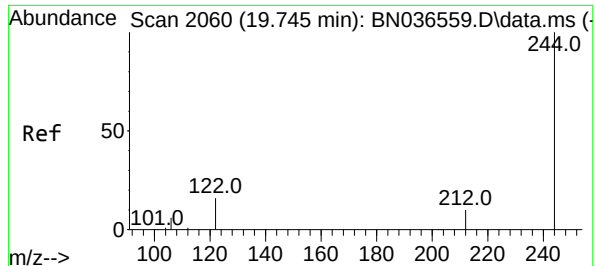
Ion Ratio Lower Upper

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

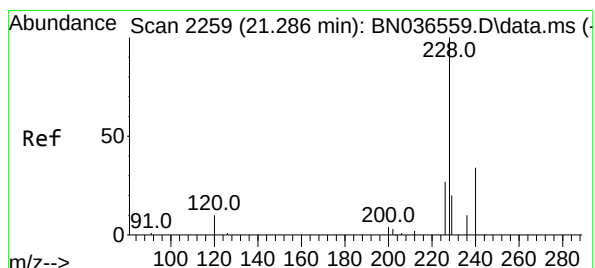
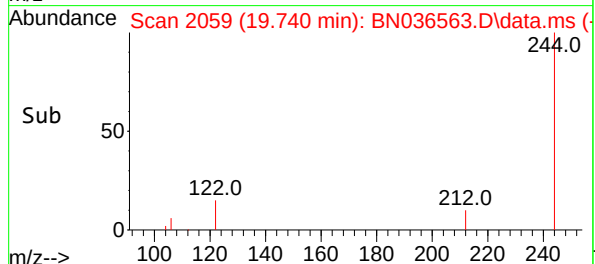
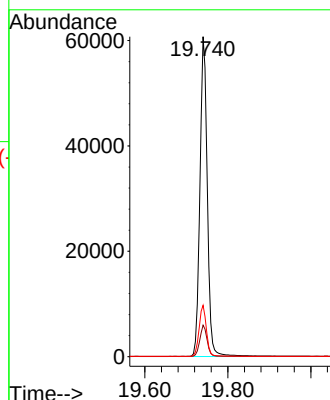
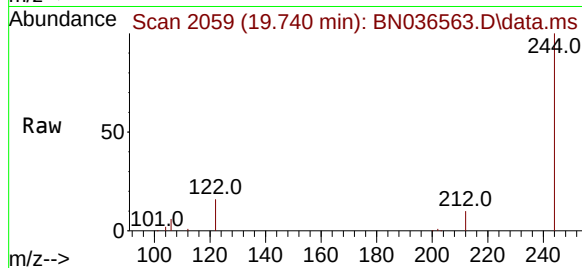
Tgt Ion:244 Resp: 74923

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

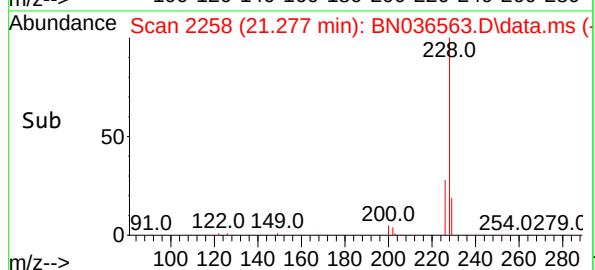
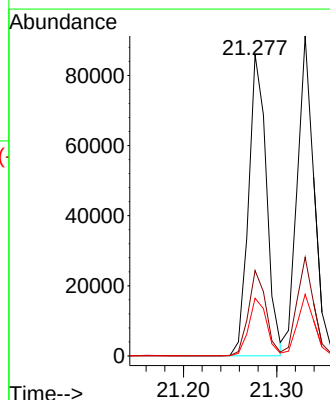
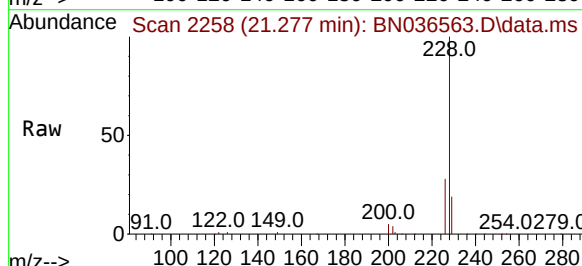
Tgt Ion:228 Resp: 114481

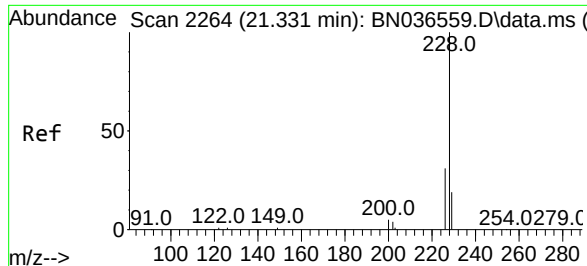
Ion Ratio Lower Upper

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

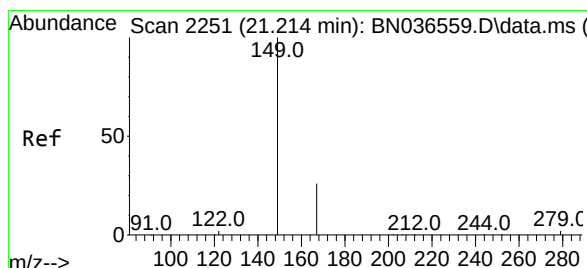
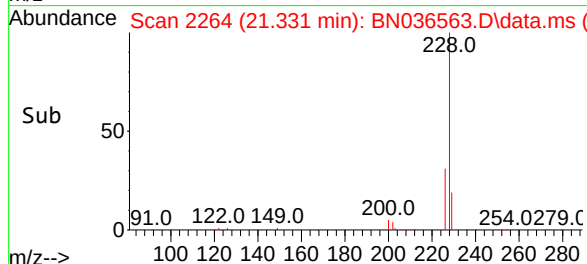
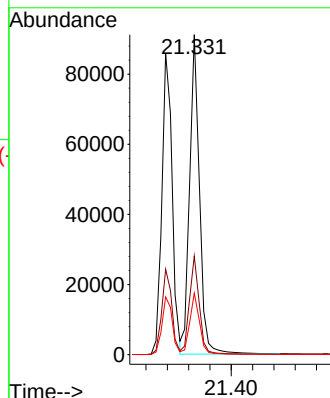
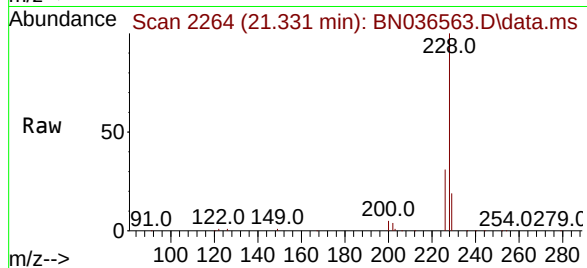
Tgt Ion:228 Resp: 117149

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

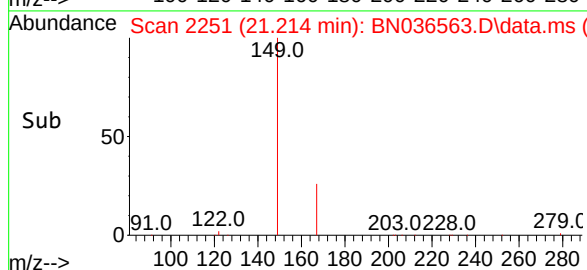
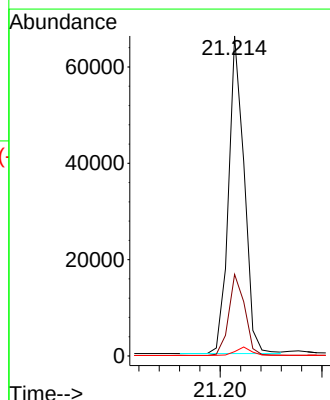
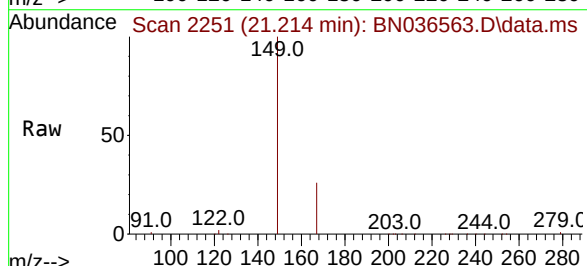
Tgt Ion:149 Resp: 70345

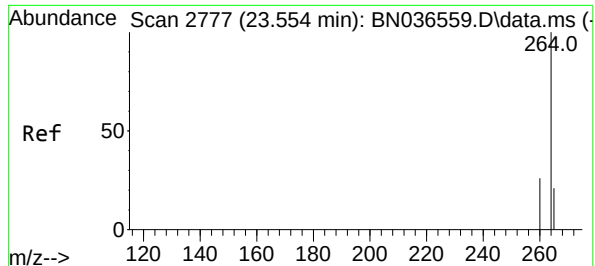
Ion Ratio Lower Upper

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

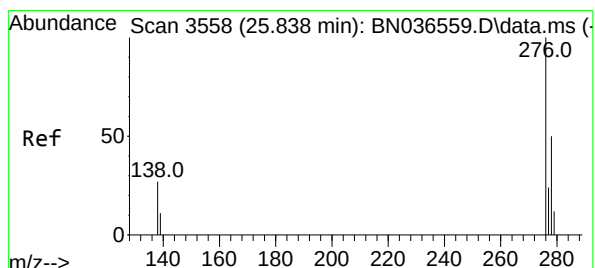
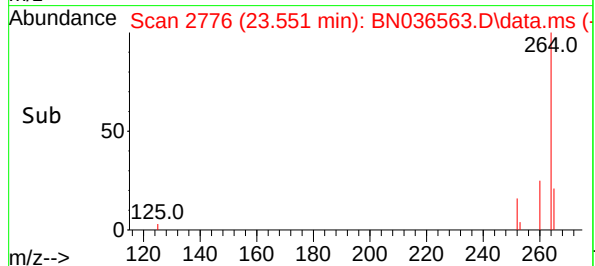
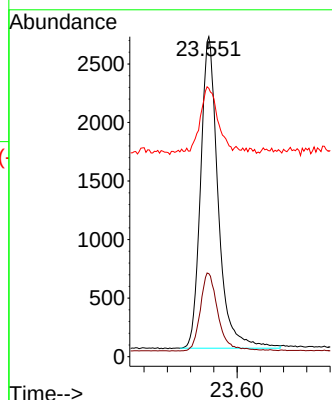
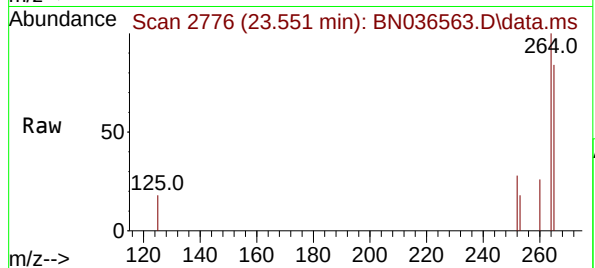
Tgt Ion:264 Resp: 5580

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

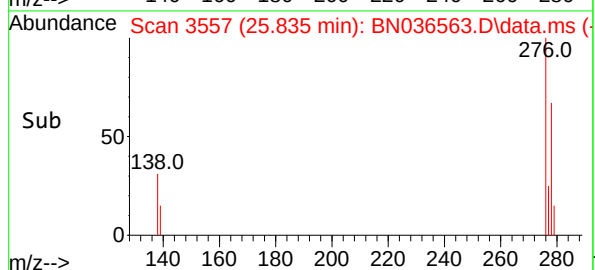
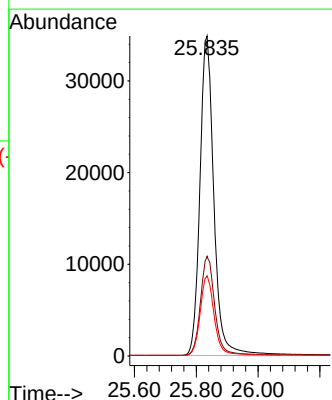
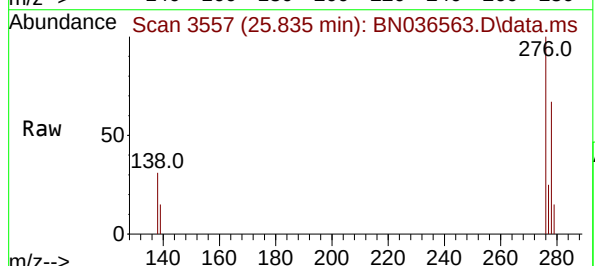
Tgt Ion:276 Resp: 109561

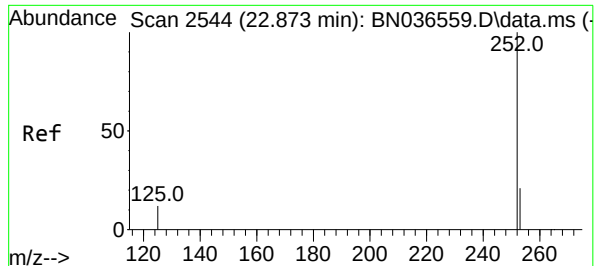
Ion Ratio Lower Upper

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

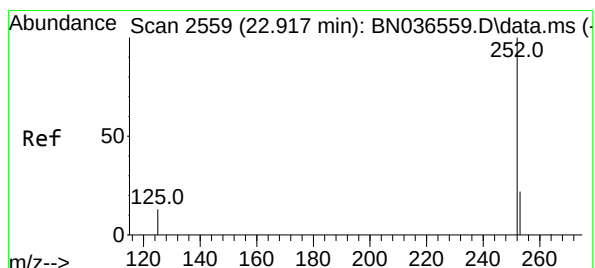
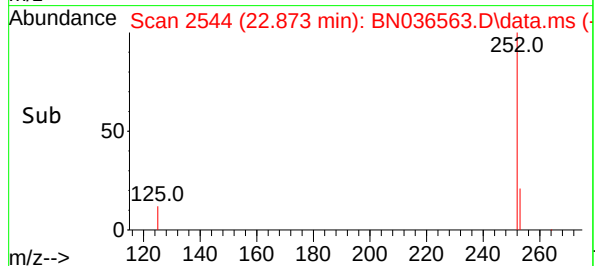
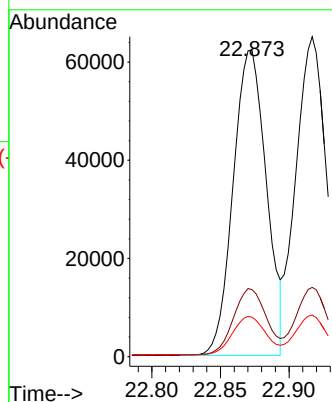
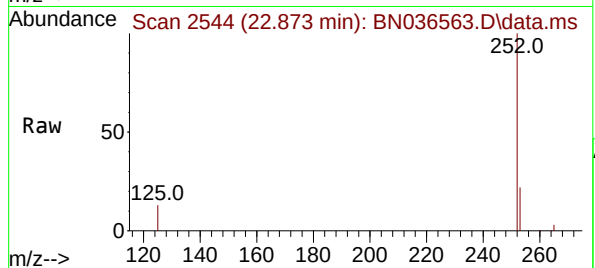
Tgt Ion:252 Resp: 104498

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

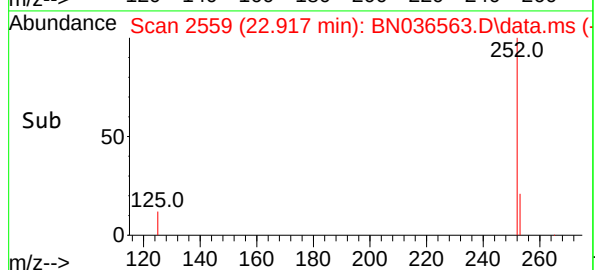
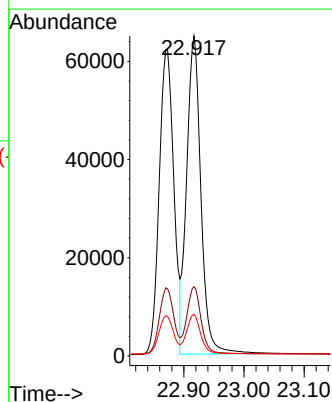
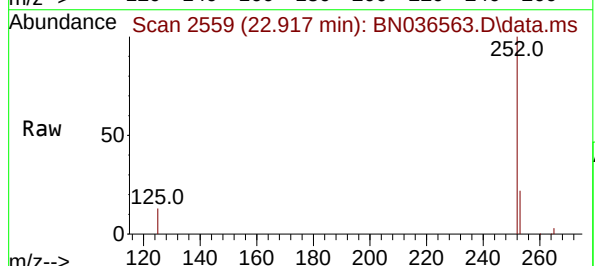
Tgt Ion:252 Resp: 106995

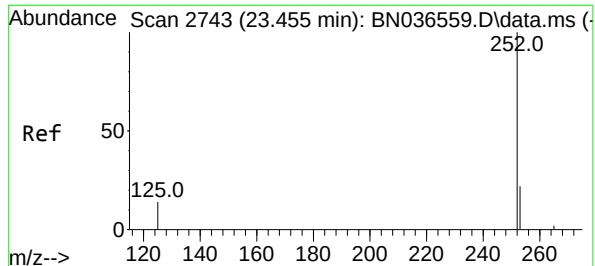
Ion Ratio Lower Upper

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

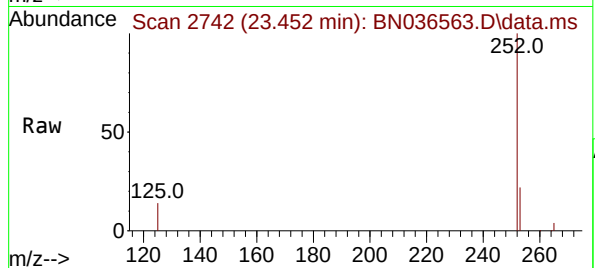
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



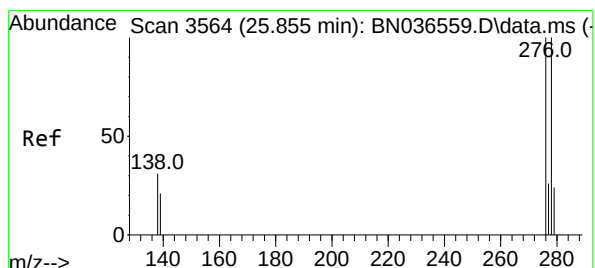
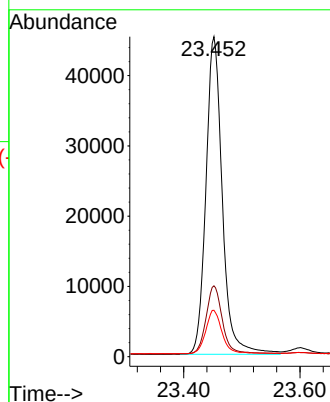
Tgt Ion:252 Resp: 88413

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

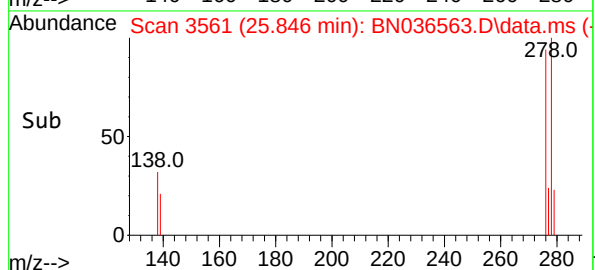
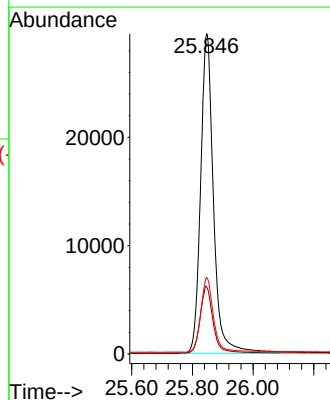
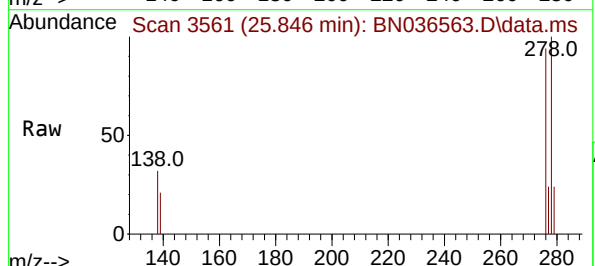
Tgt Ion:278 Resp: 87308

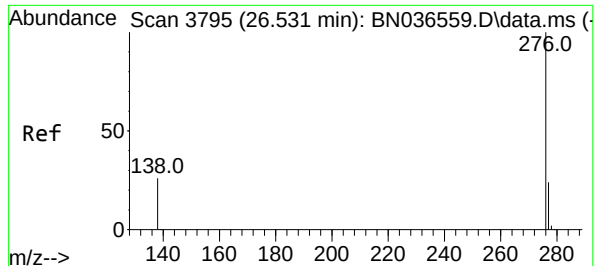
Ion Ratio Lower Upper

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

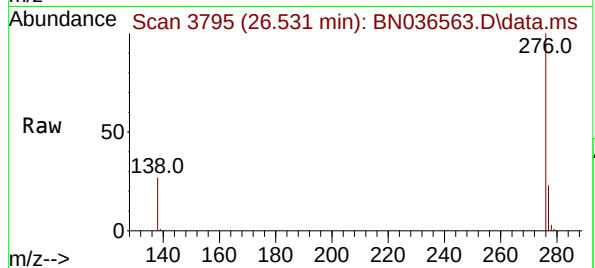
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



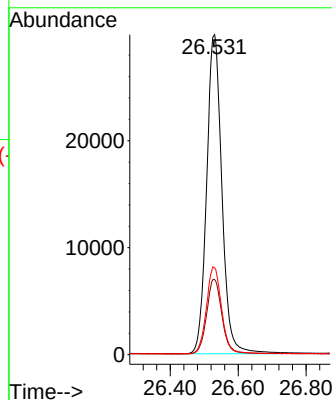
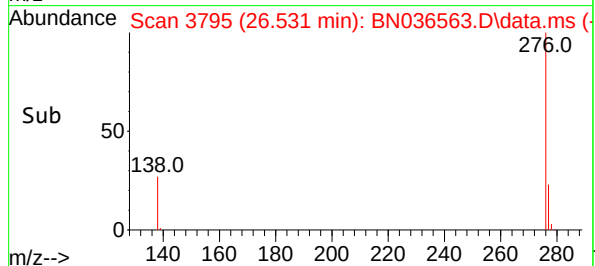
Tgt Ion:276 Resp: 93067

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

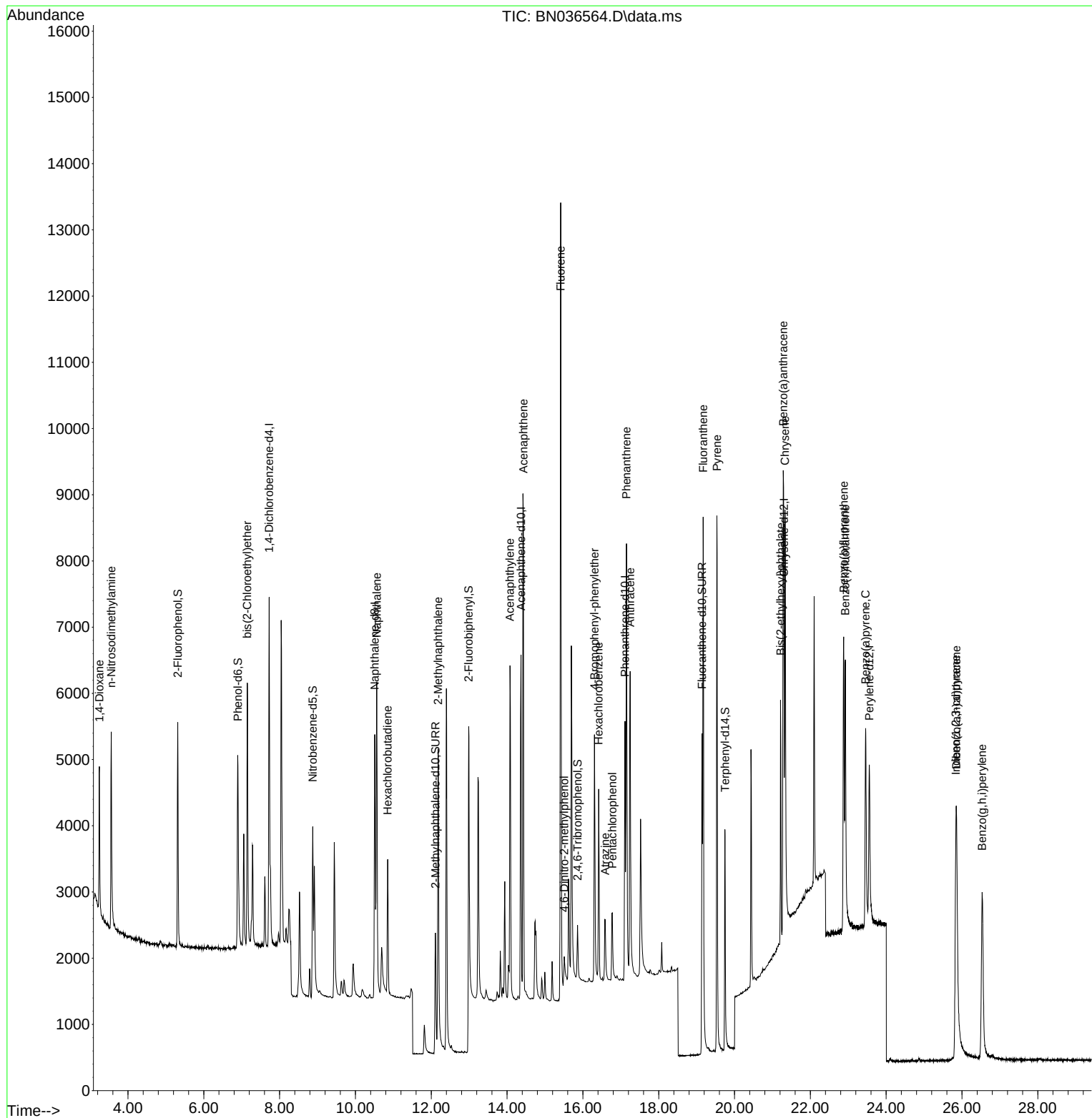
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng	0.00
29) Chrysene-d12	21.304	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

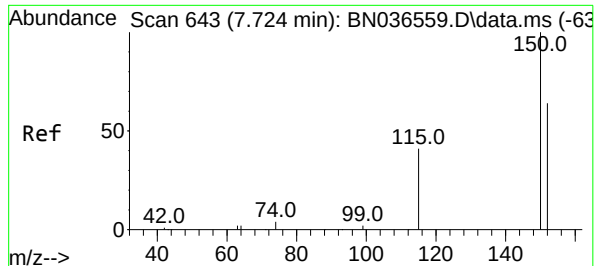
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

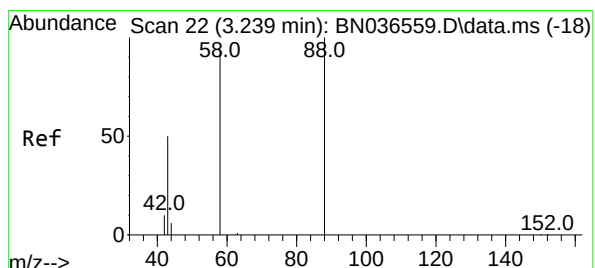
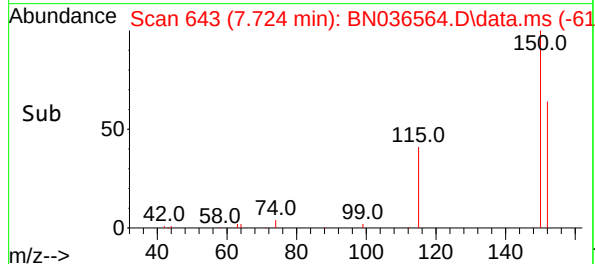
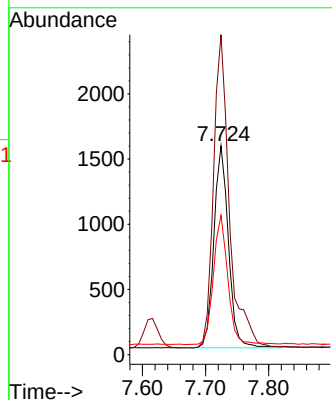
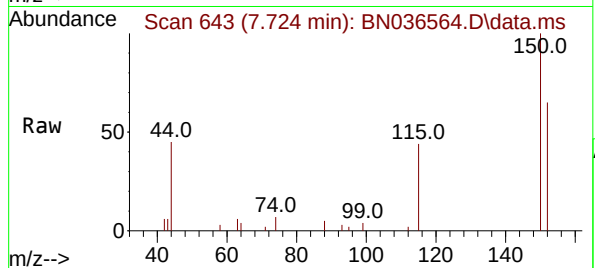




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

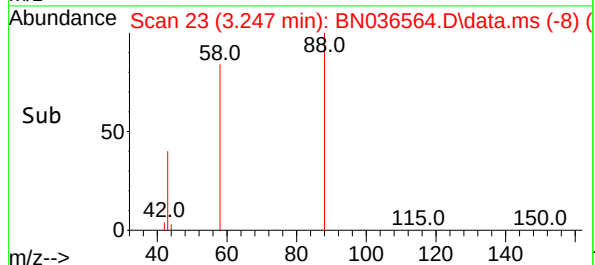
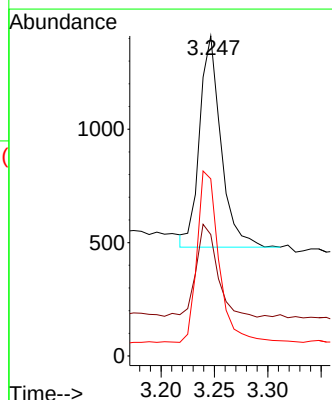
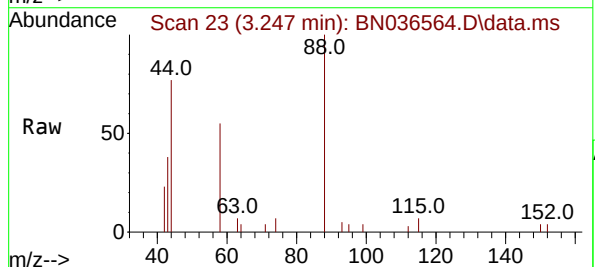
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

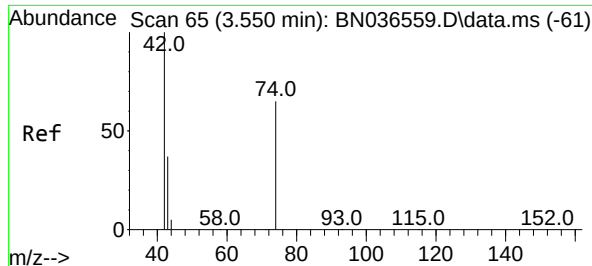
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 66.7 54.3 81.5



#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

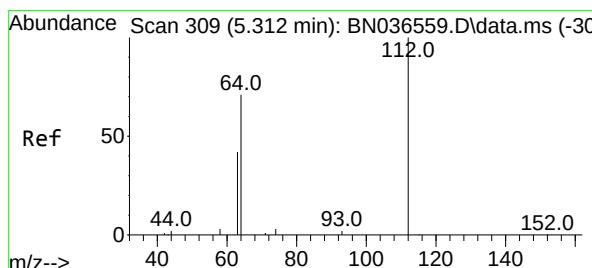
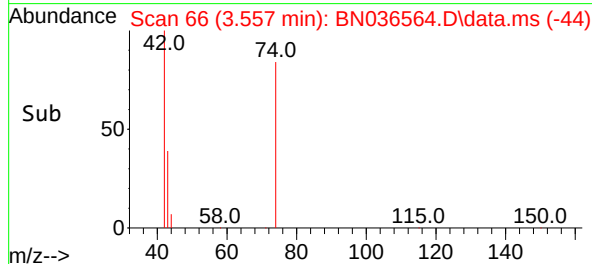
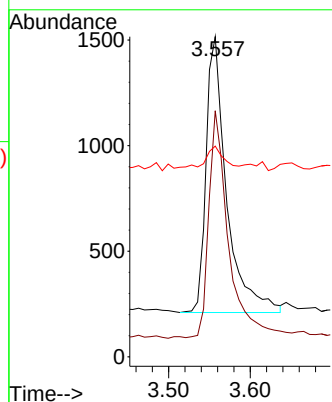
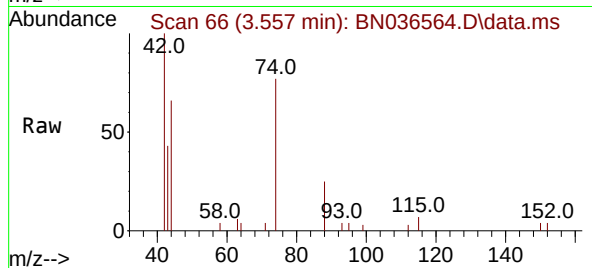




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

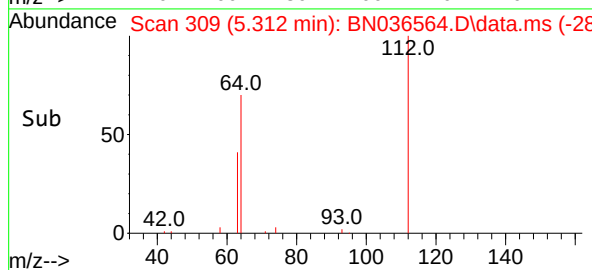
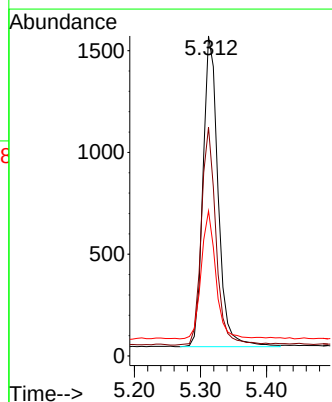
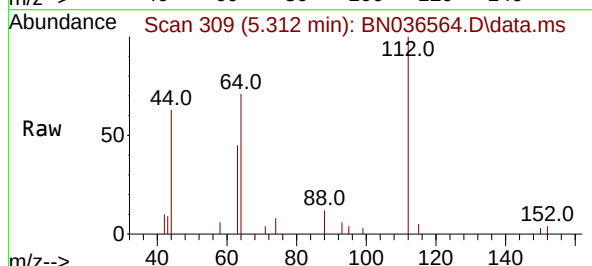
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

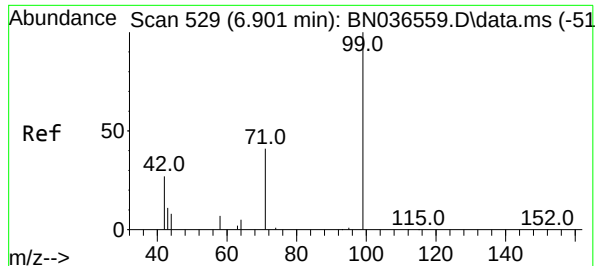
Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 8.2 6.3 9.5



#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

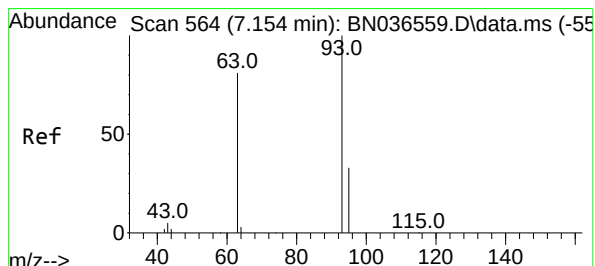
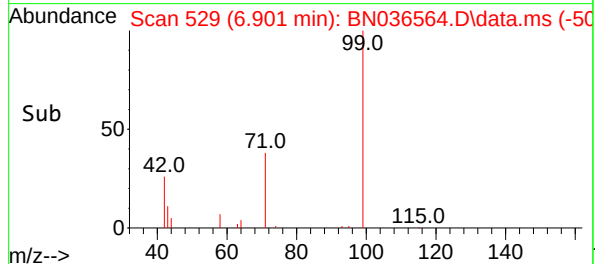
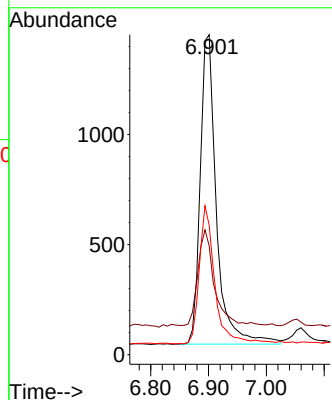
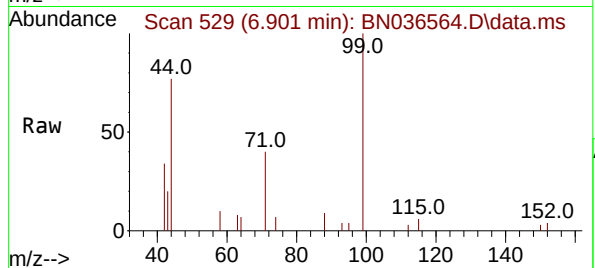




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

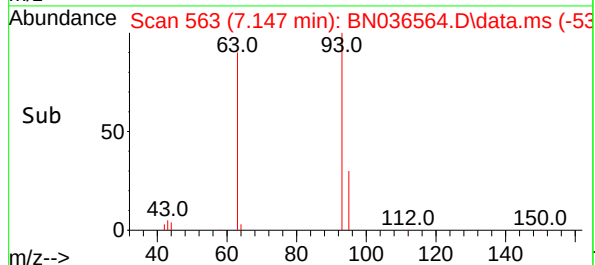
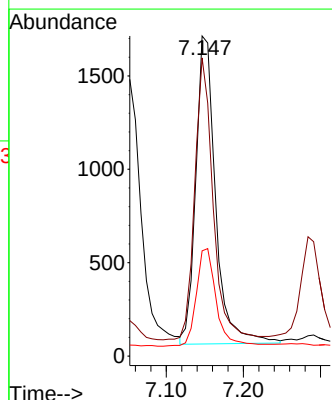
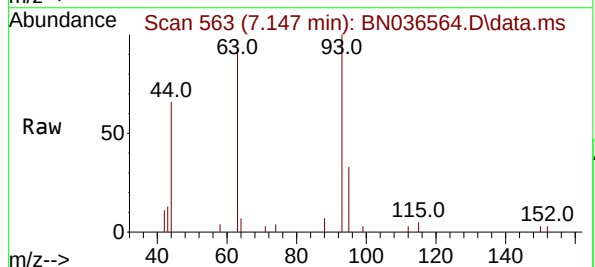
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

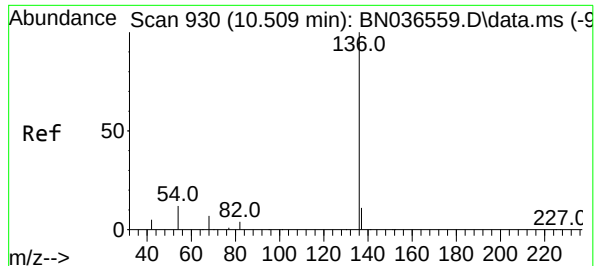
Tgt Ion: 99 Resp: 2744
Ion Ratio Lower Upper
99 100
42 32.1 26.5 39.7
71 42.9 34.1 51.1



#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

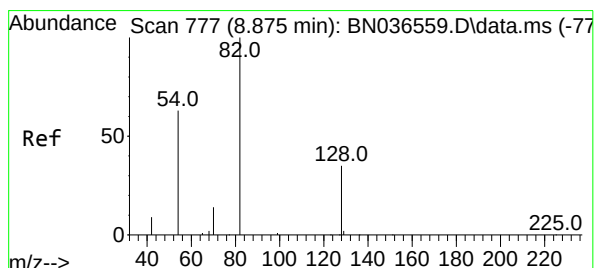
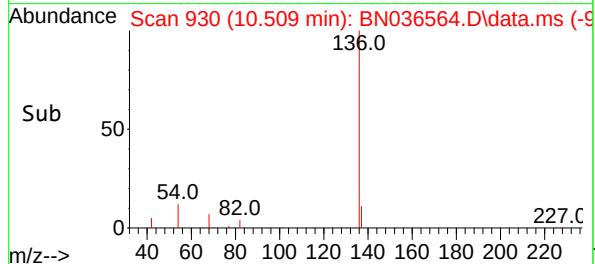
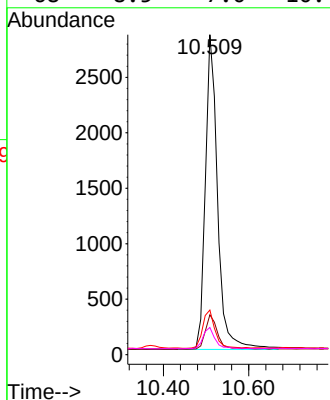
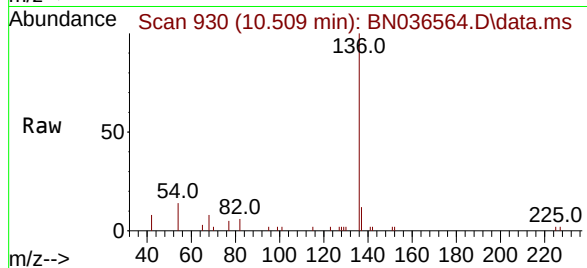




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

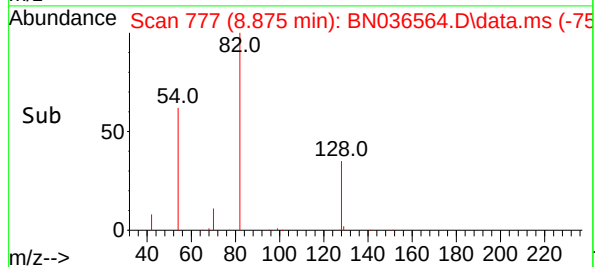
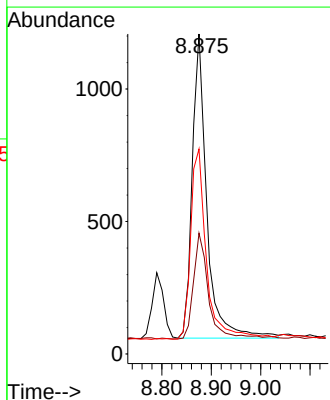
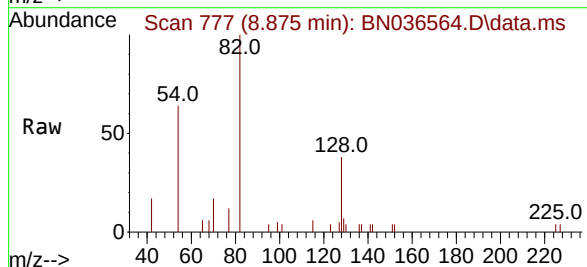
Instrument :
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ClientSampleId :
ICVBN031025

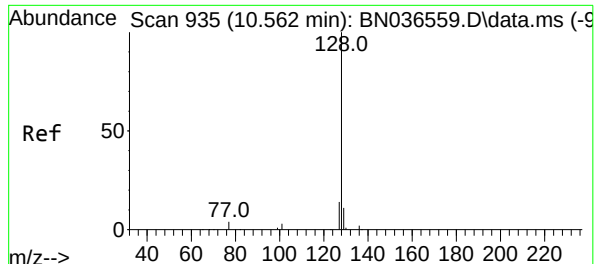
Tgt Ion:	136	Resp:	5634
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#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

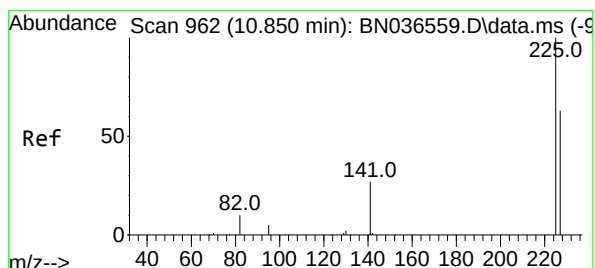
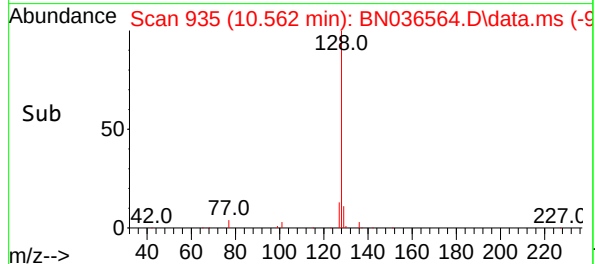
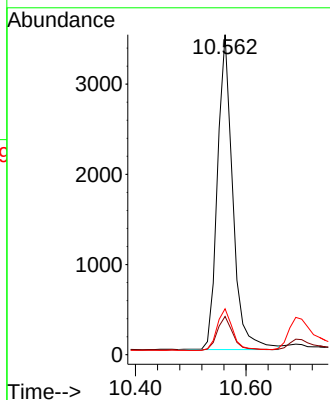
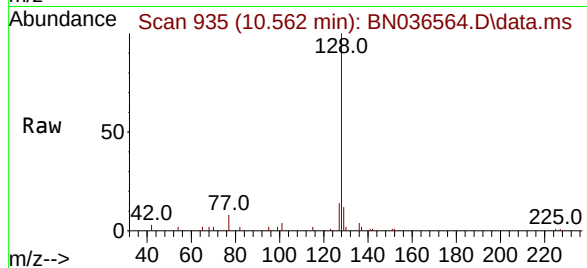




#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

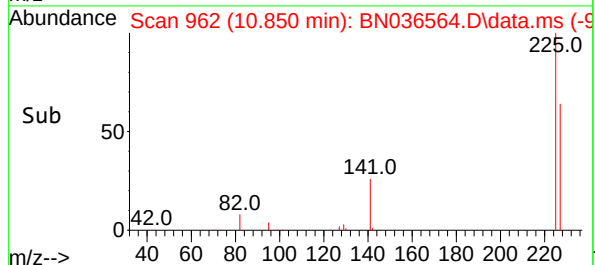
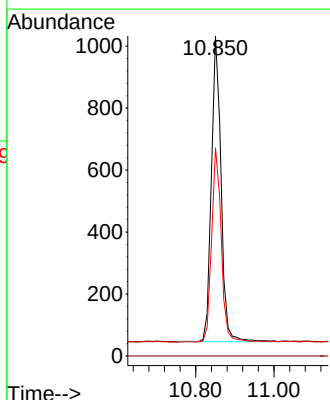
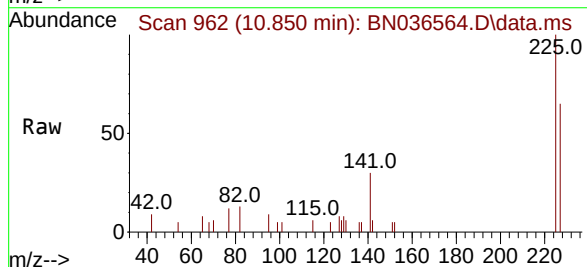
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

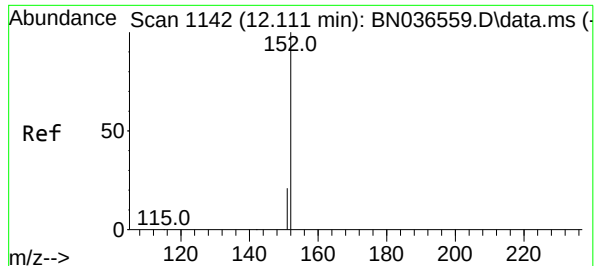
Tgt Ion	128	129	127
Resp:	6710		
Ion Ratio	100	11.9	14.3
Lower		9.8	11.8
Upper		14.6	17.8



#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	225	223	227
Resp:	1694		
Ion Ratio	100	0.0	63.5
Lower		0.0	51.8
Upper		0.0	77.8

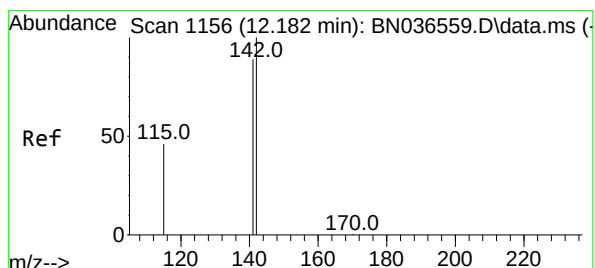
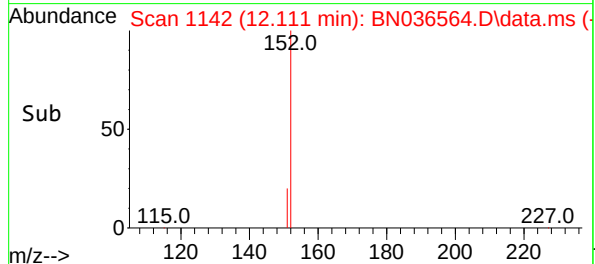
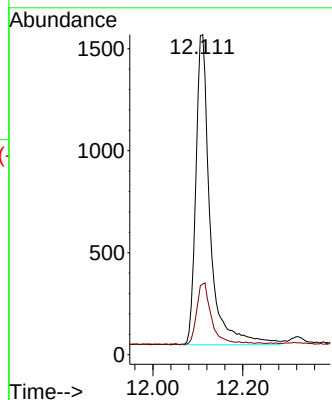
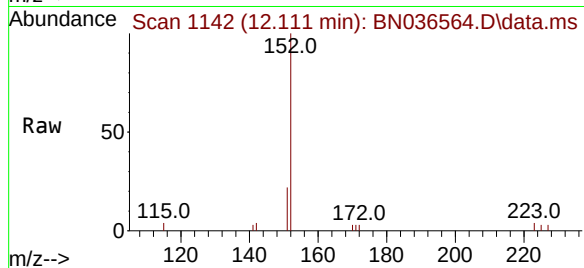




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

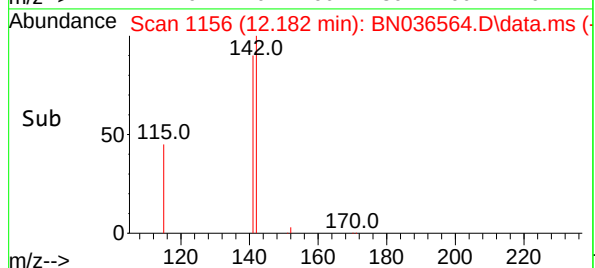
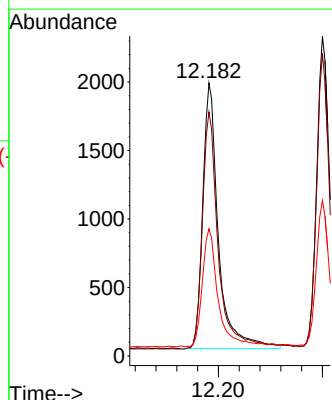
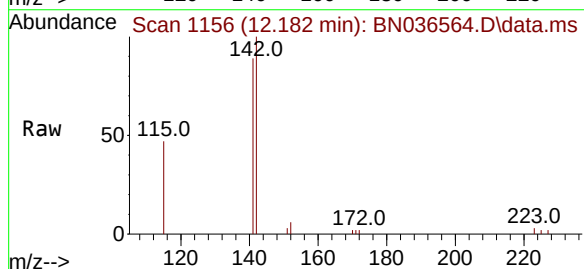
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

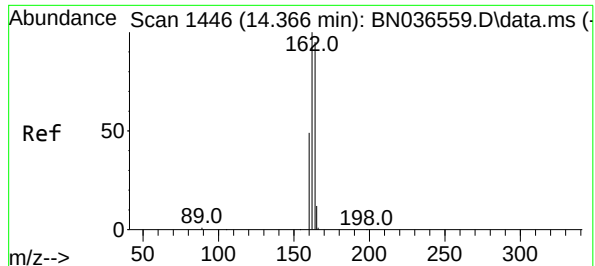
Tgt Ion:152 Resp: 3345
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#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

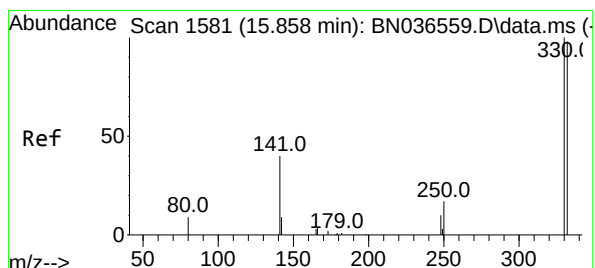
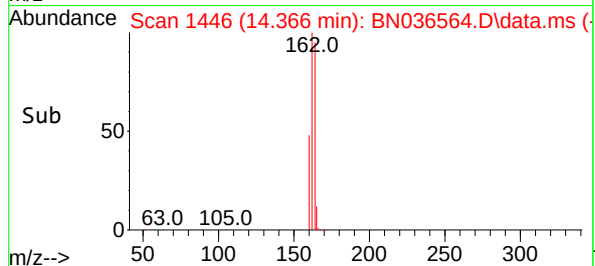
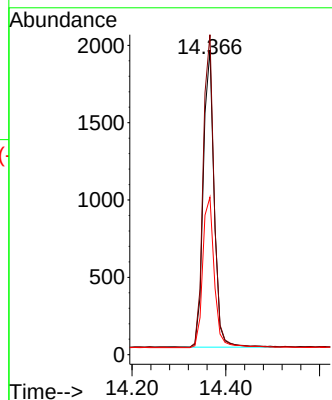
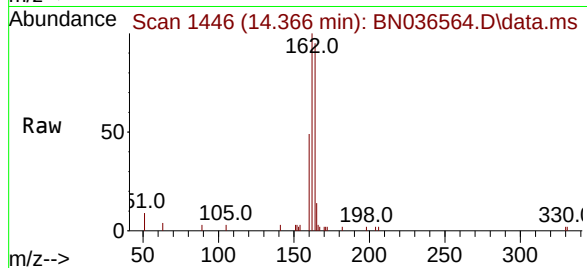




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

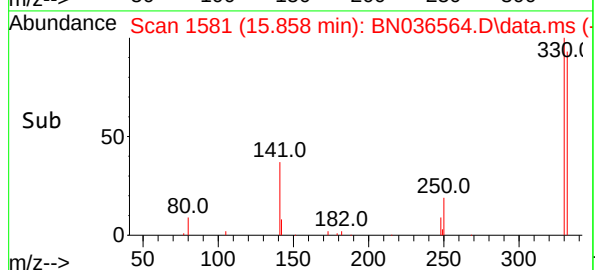
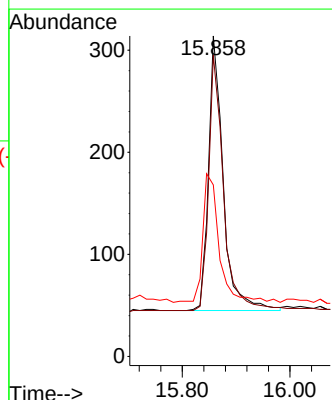
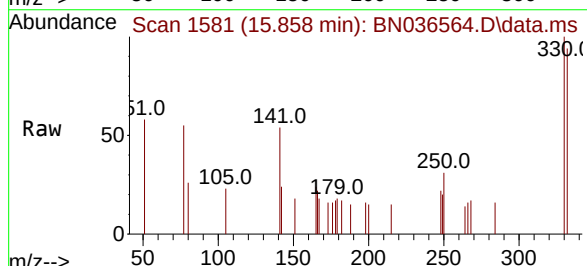
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

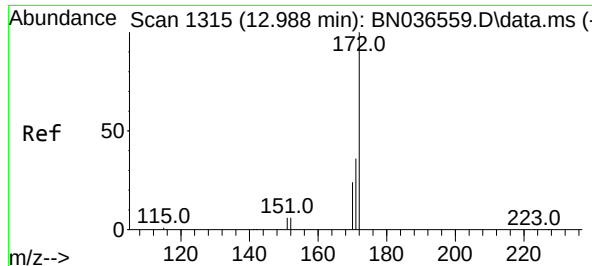
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2



#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

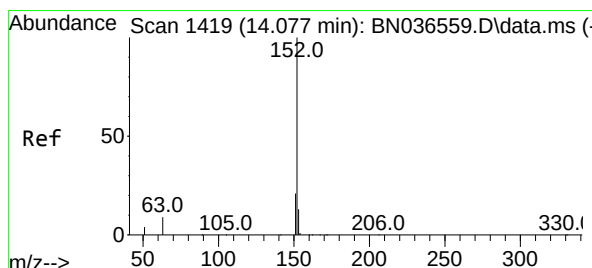
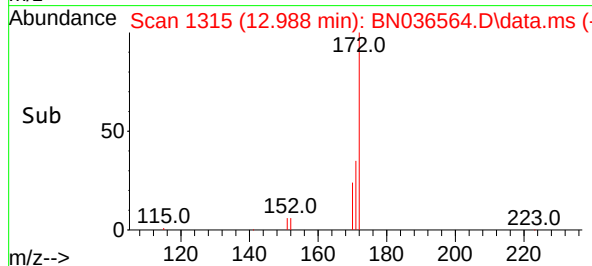
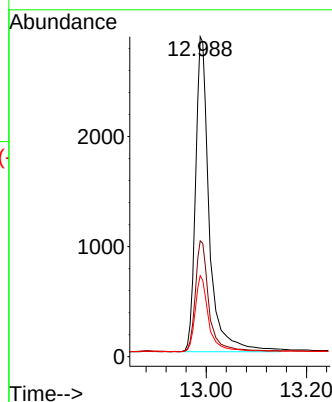
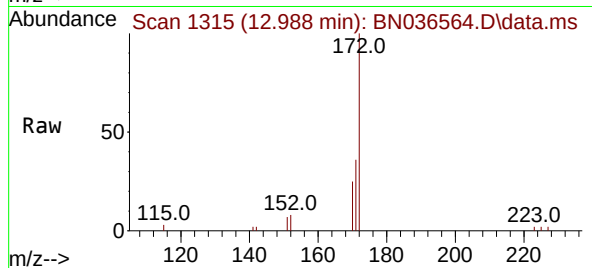
Tgt Ion:172 Resp: 7753

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

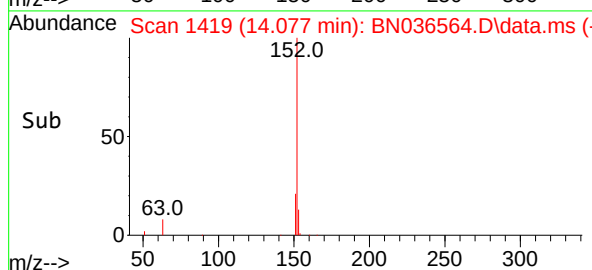
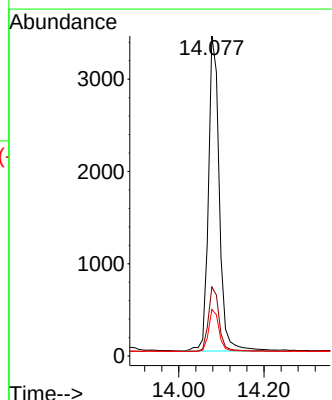
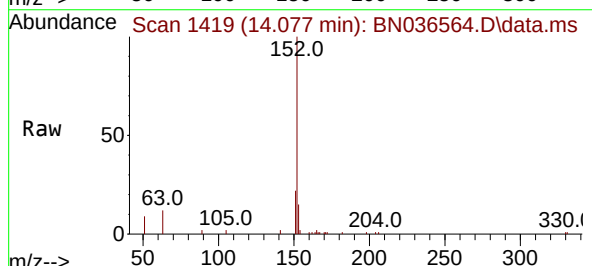
Tgt Ion:152 Resp: 6059

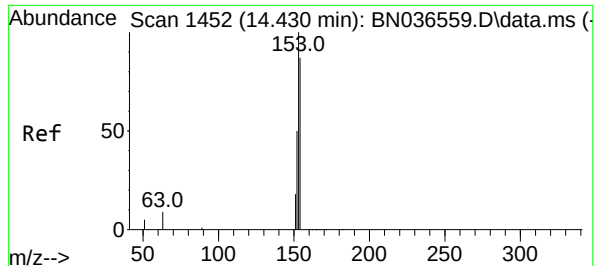
Ion Ratio Lower Upper

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

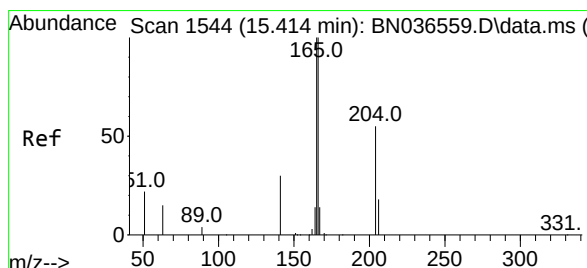
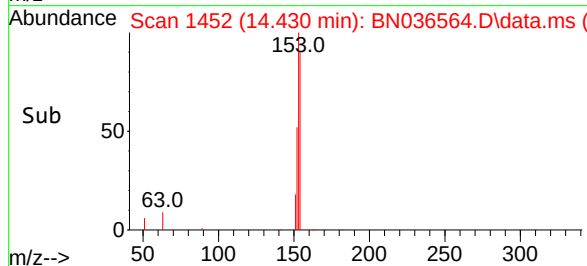
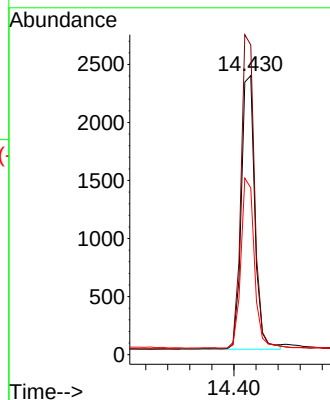
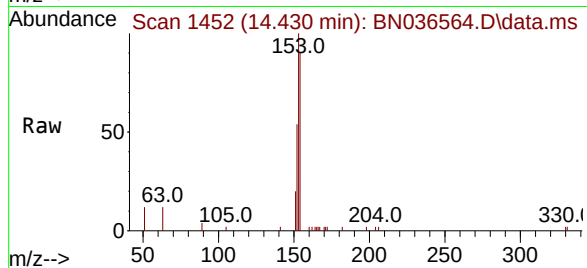
Tgt Ion:154 Resp: 4035

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

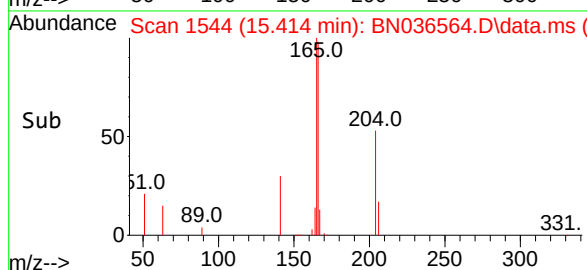
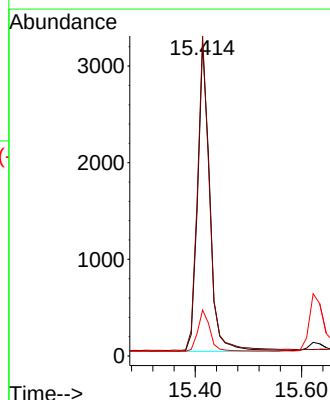
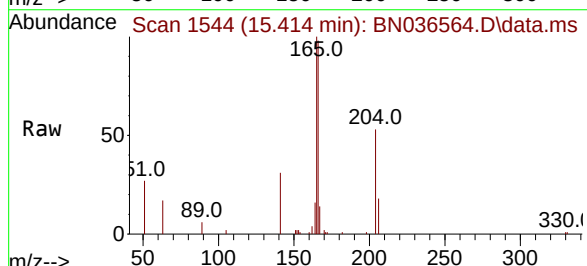
Tgt Ion:166 Resp: 5226

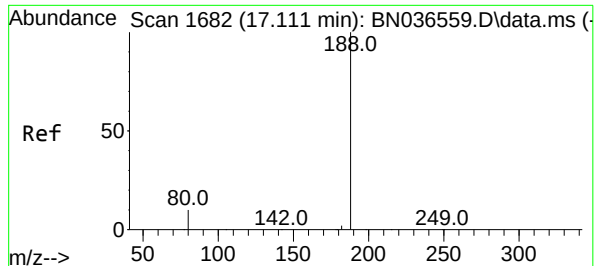
Ion Ratio Lower Upper

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

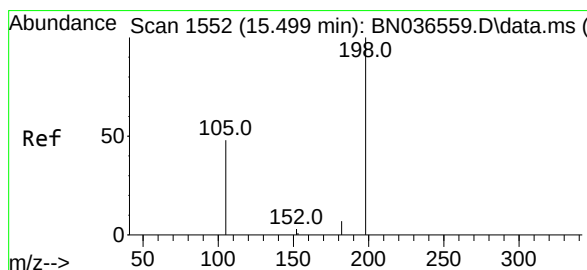
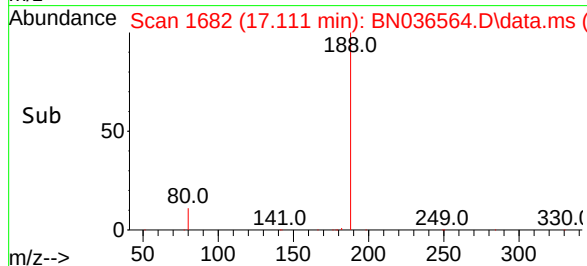
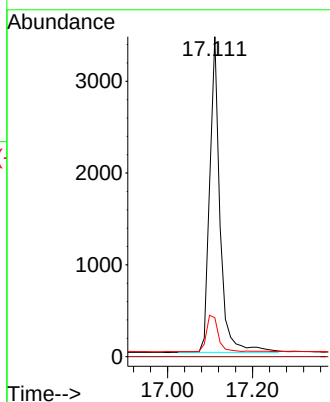
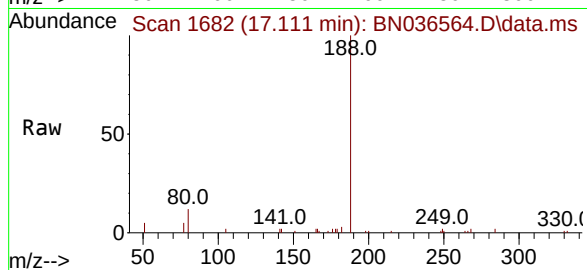
Tgt Ion:188 Resp: 5778

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

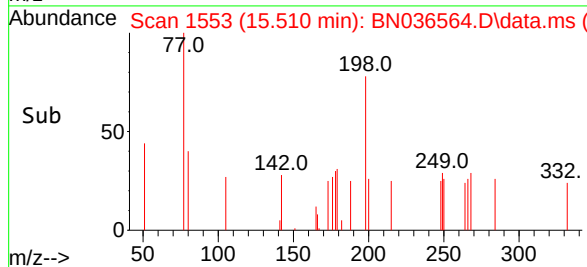
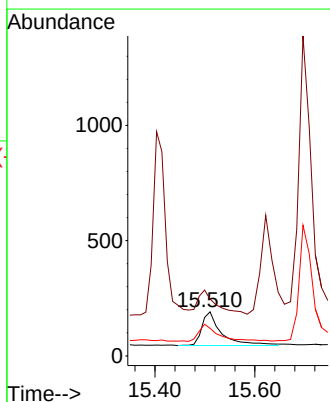
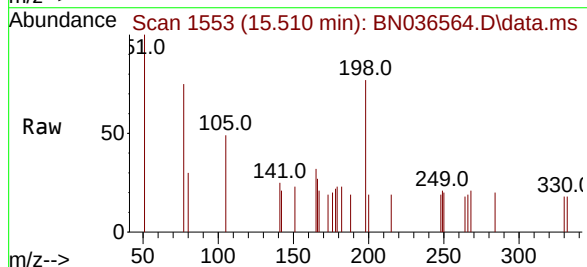
Tgt Ion:198 Resp: 404

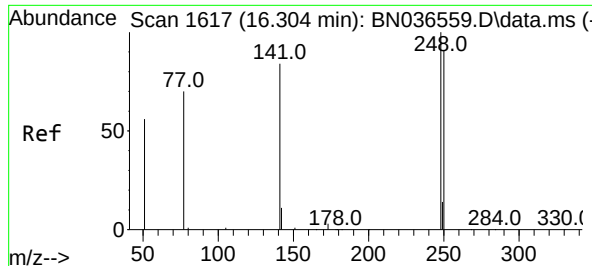
Ion Ratio Lower Upper

198 100

51 129.3 107.9 161.9

105 62.8 56.2 84.2

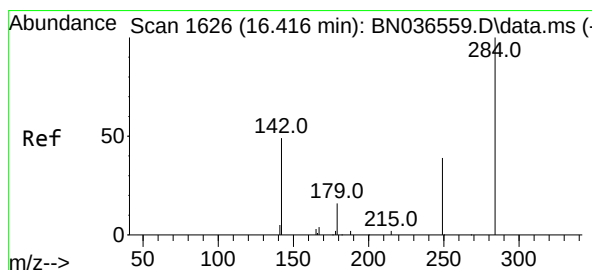
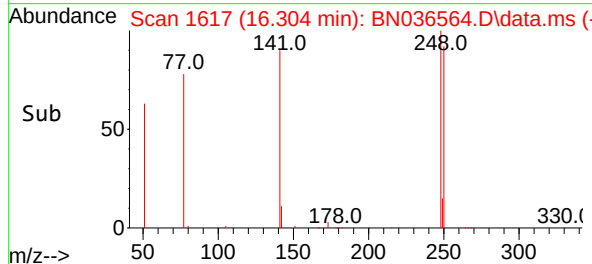
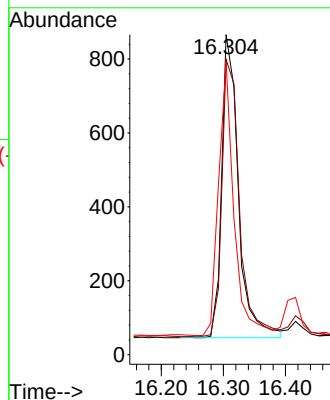
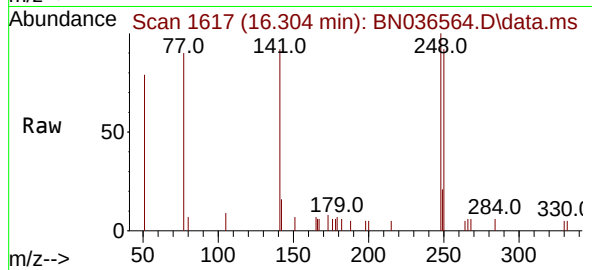




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

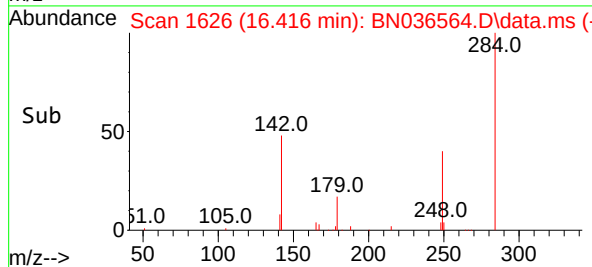
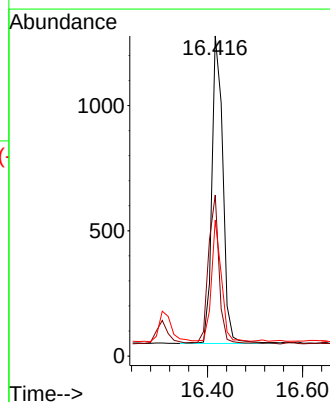
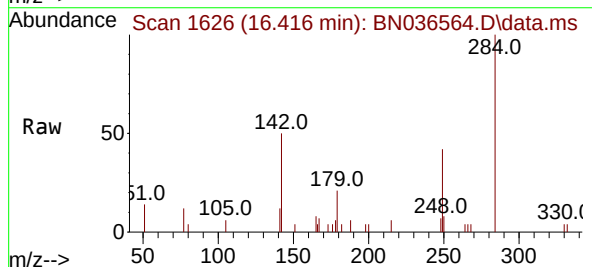
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

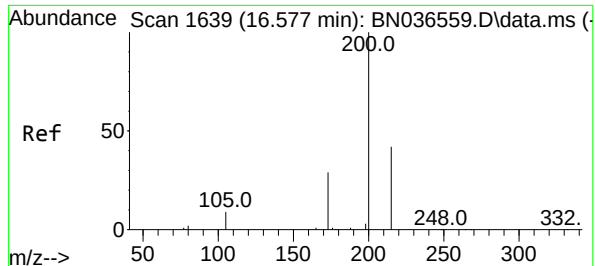
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0



#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

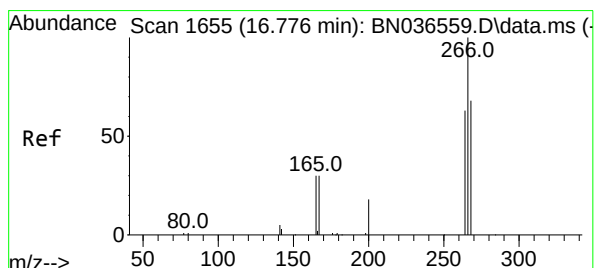
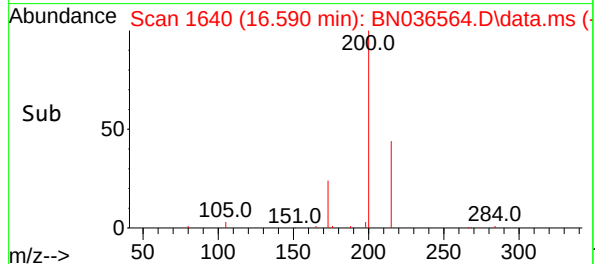
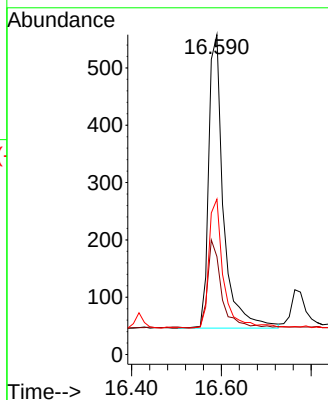
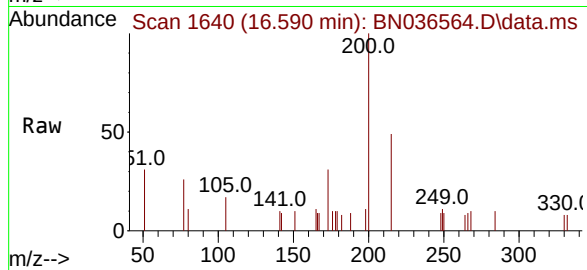




#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

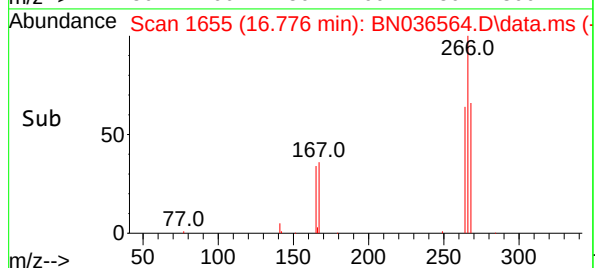
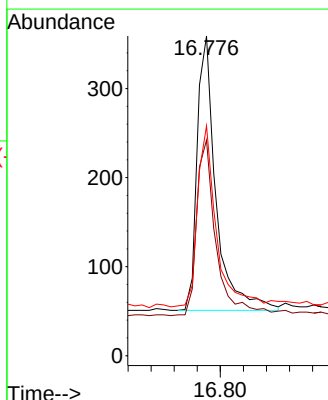
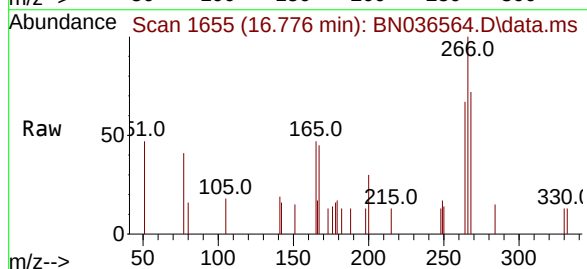
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

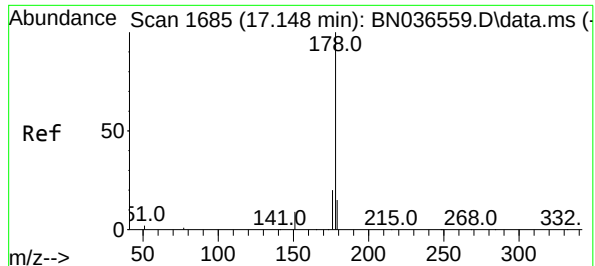
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2



#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

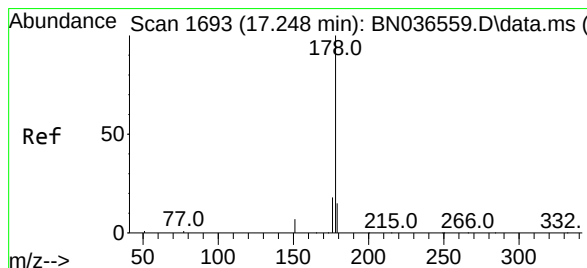
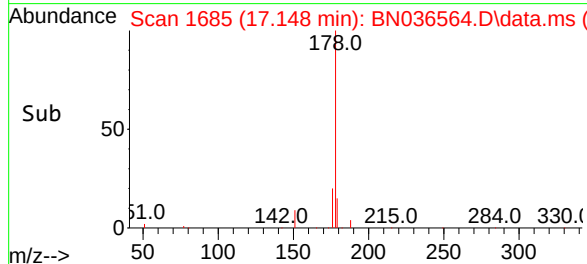
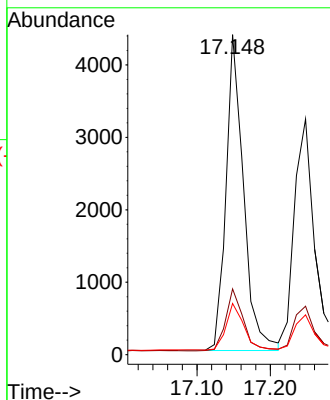
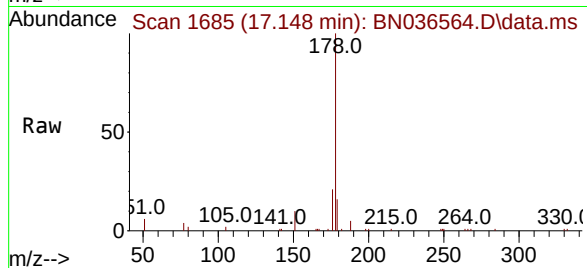




#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

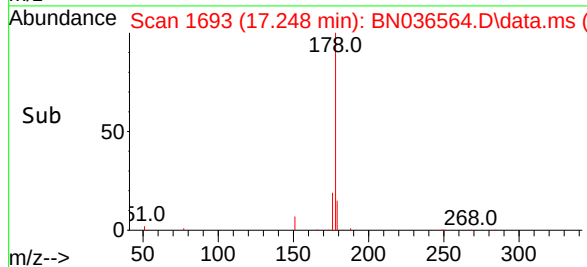
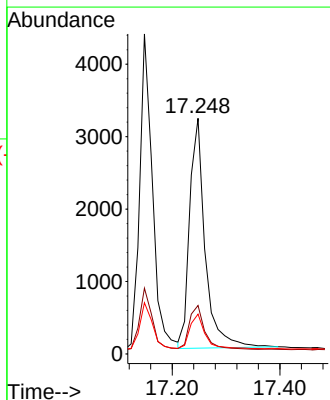
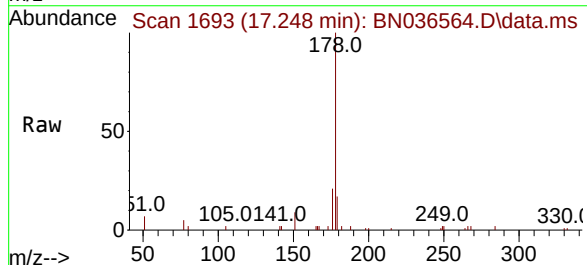
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

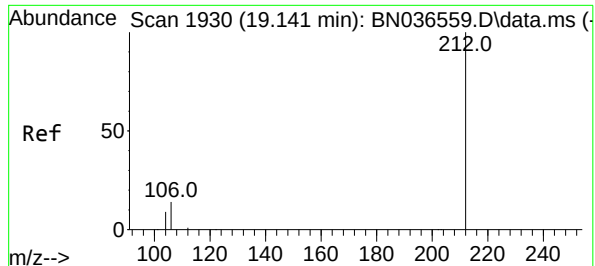
Tgt Ion:178 Resp: 7229
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.0 12.2 18.4



#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

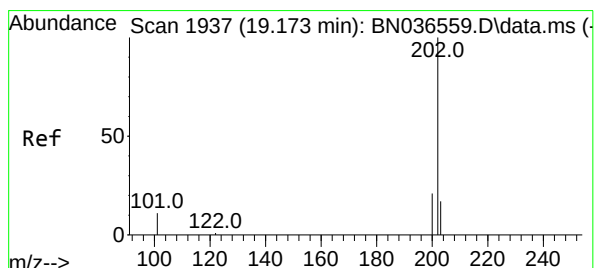
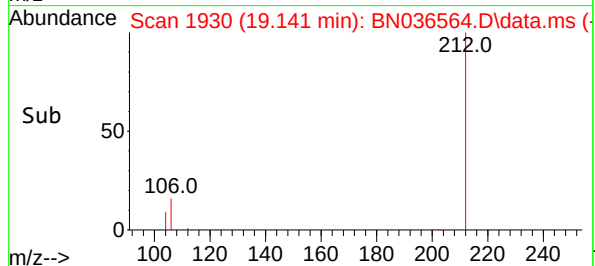
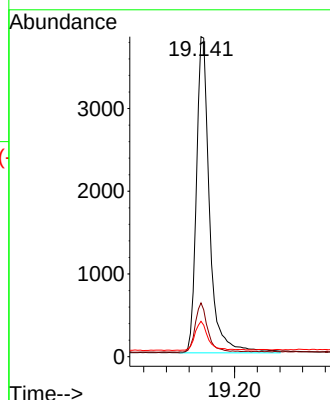
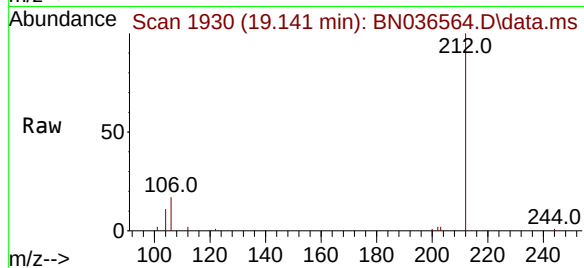
Tgt Ion:212 Resp: 6152

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

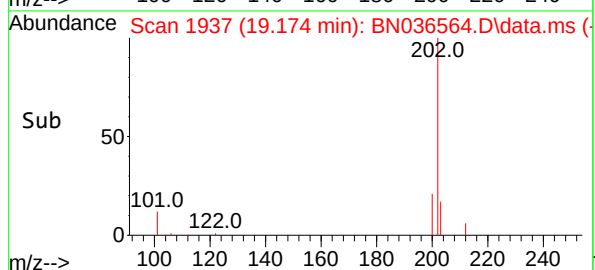
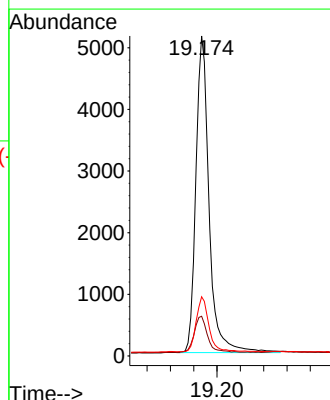
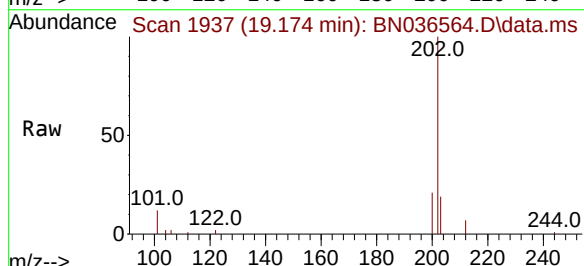
Tgt Ion:202 Resp: 8068

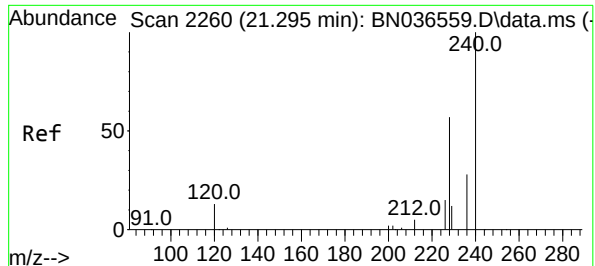
Ion Ratio Lower Upper

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

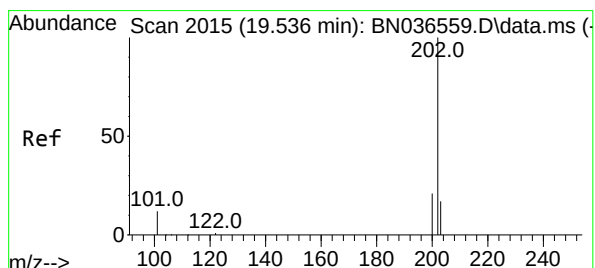
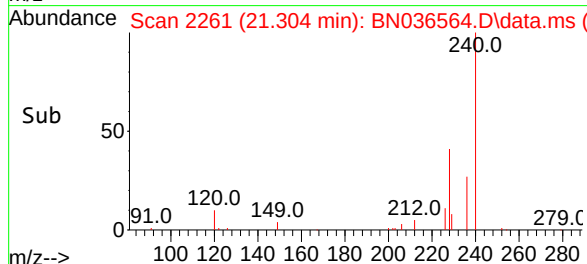
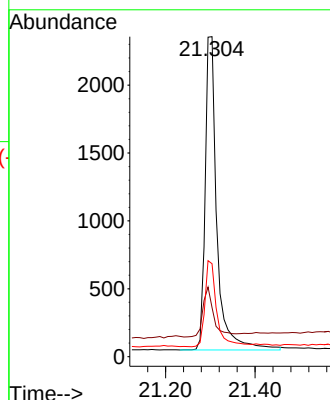
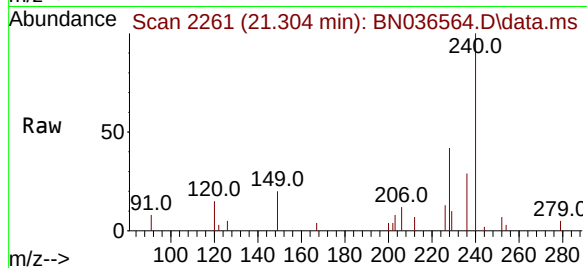
Tgt Ion:240 Resp: 4219

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

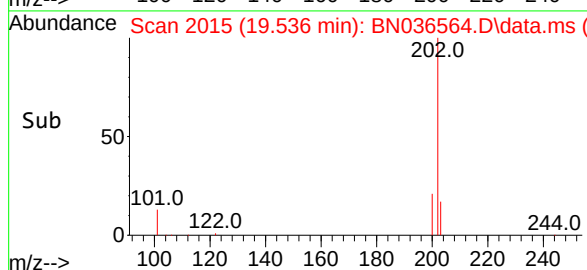
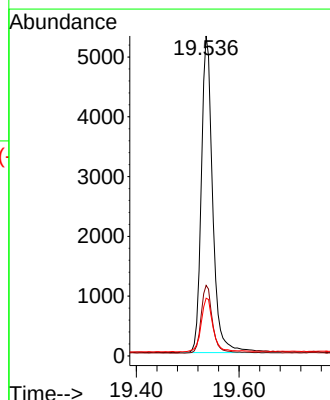
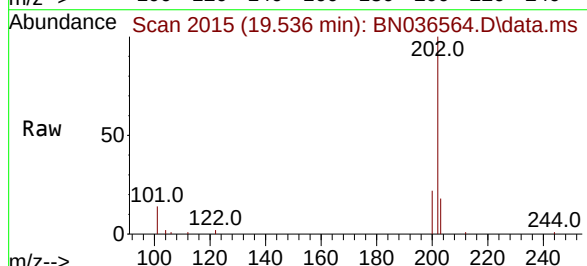
Tgt Ion:202 Resp: 8156

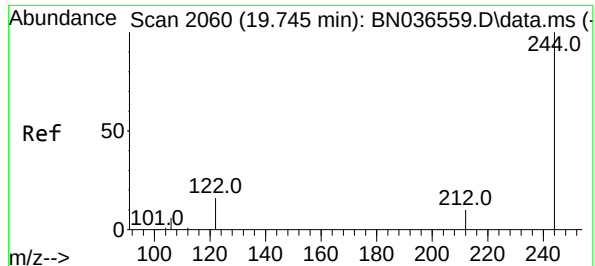
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.4 14.1 21.1

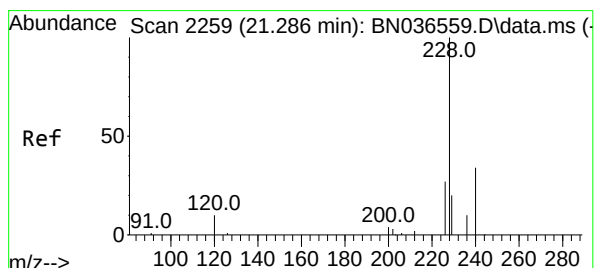
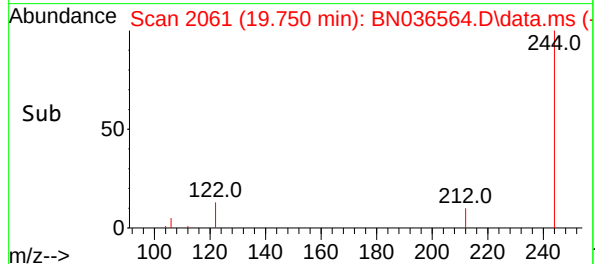
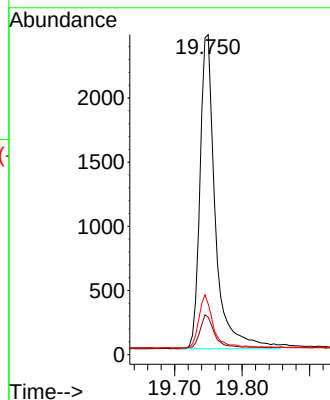
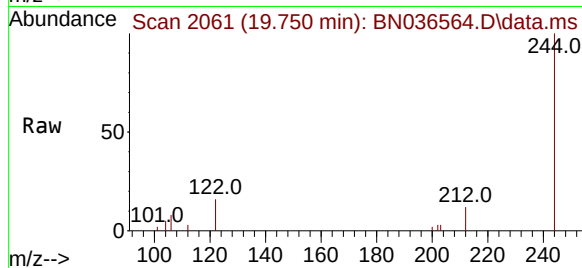




#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

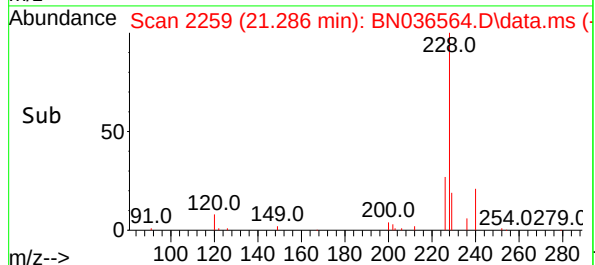
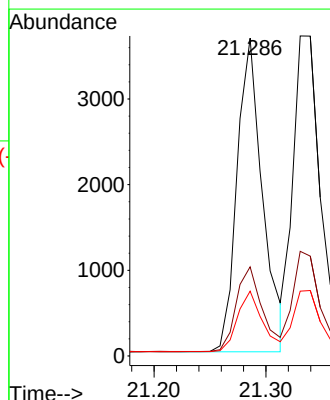
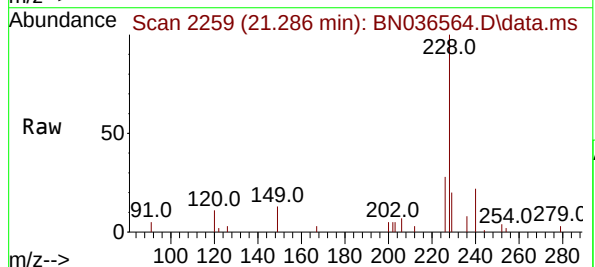
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

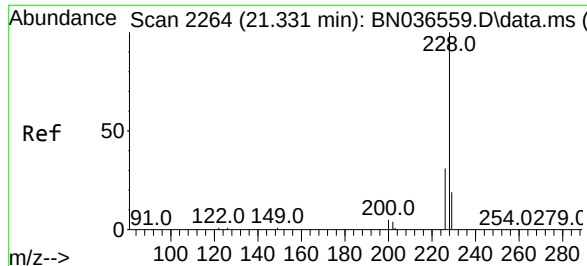
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9



#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	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

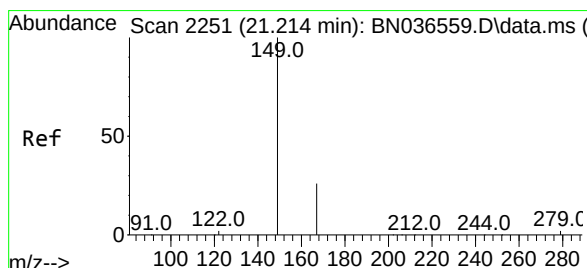
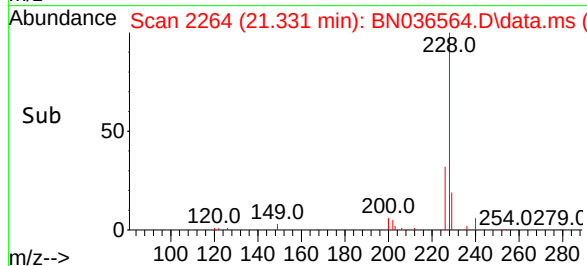
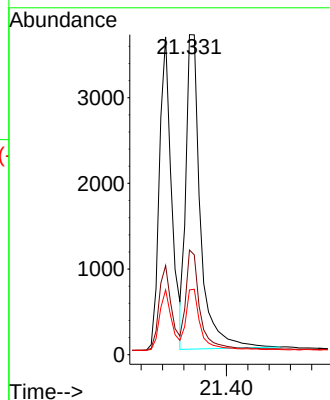
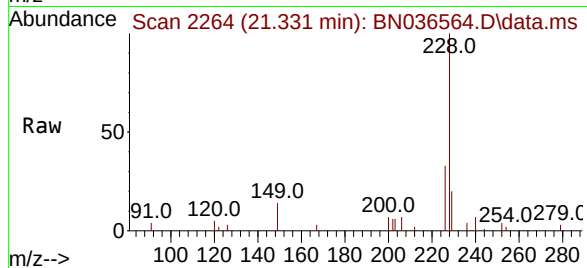
Tgt Ion:228 Resp: 6940

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

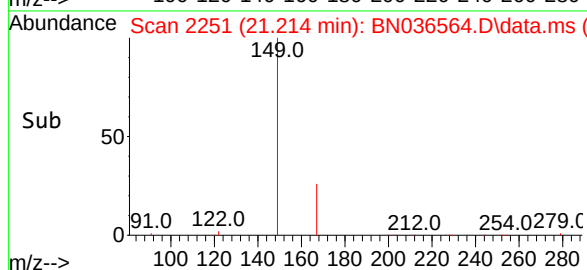
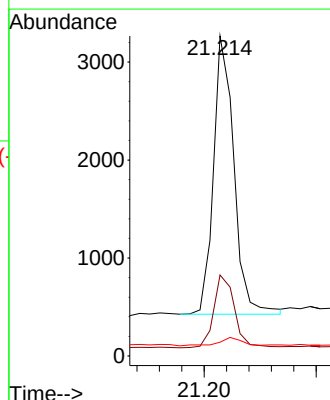
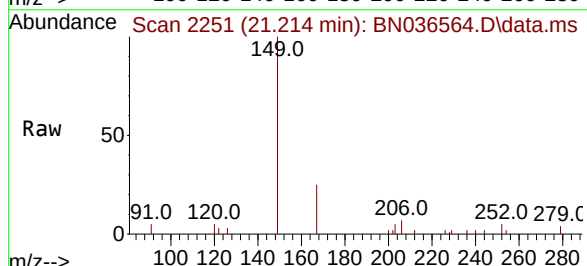
Tgt Ion:149 Resp: 3594

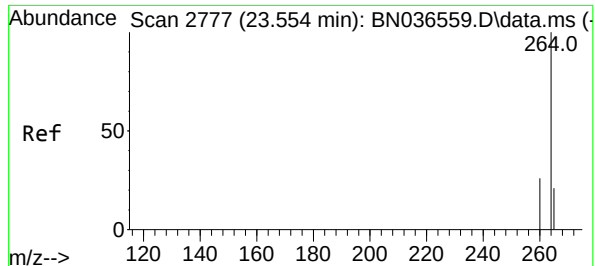
Ion Ratio Lower Upper

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

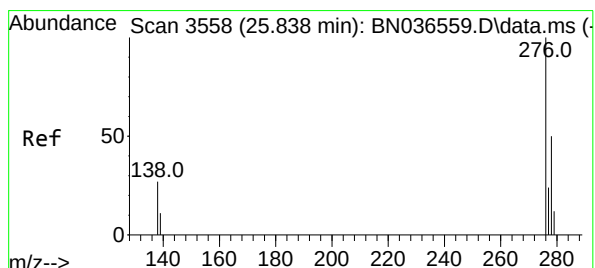
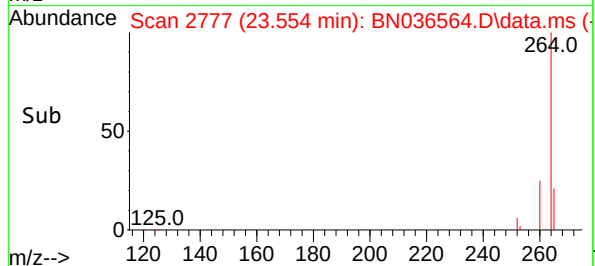
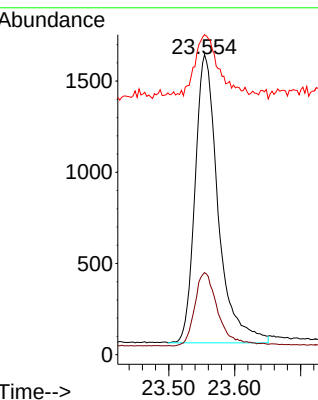
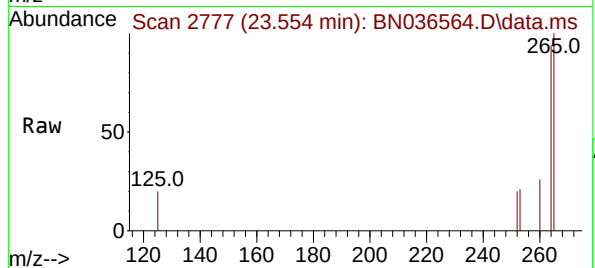
Tgt Ion:264 Resp: 3835

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

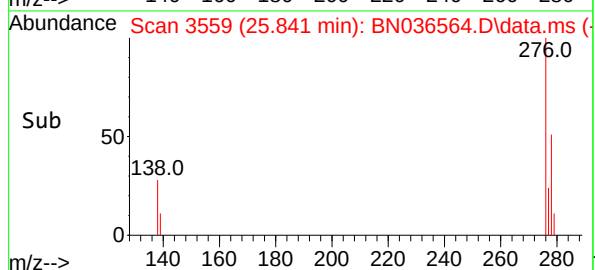
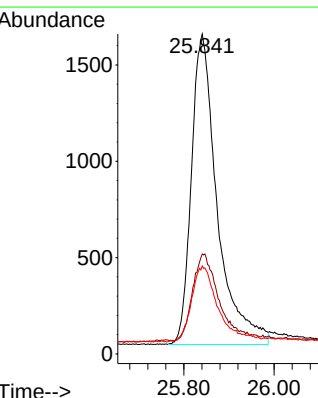
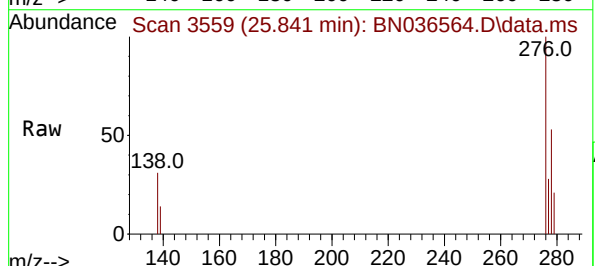
Tgt Ion:276 Resp: 6410

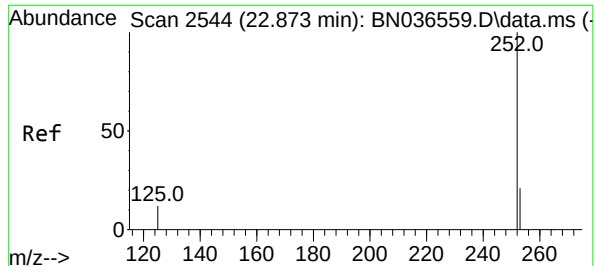
Ion Ratio Lower Upper

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

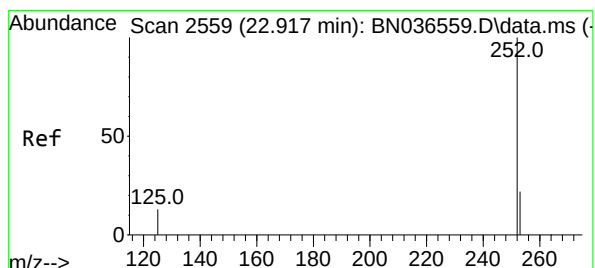
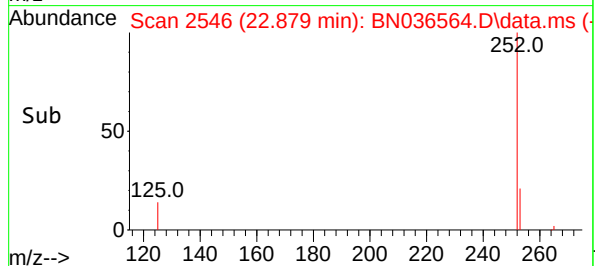
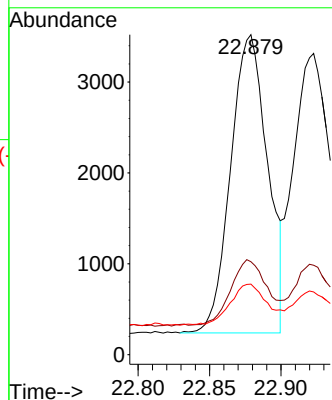
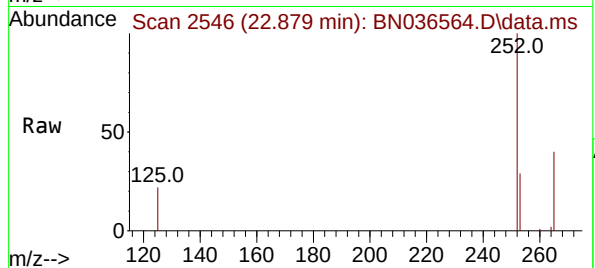
Tgt Ion:252 Resp: 5902

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

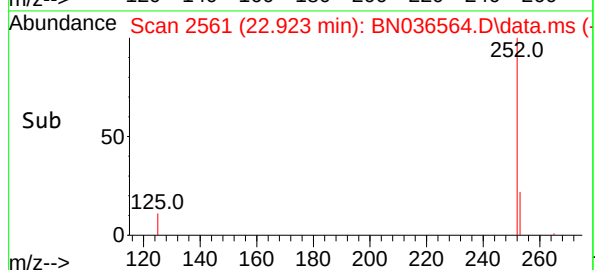
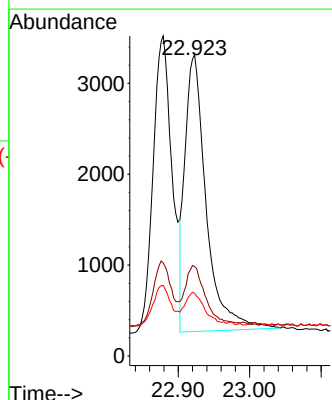
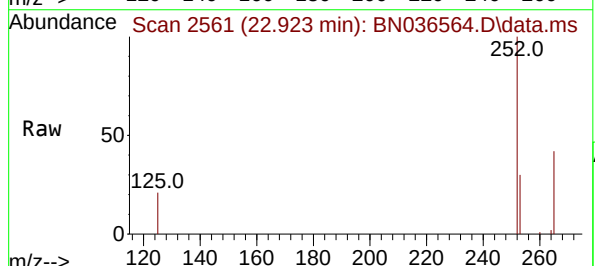
Tgt Ion:252 Resp: 6286

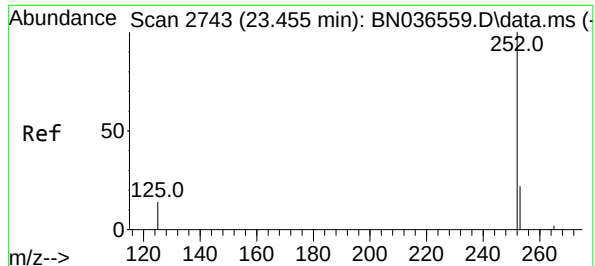
Ion Ratio Lower Upper

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

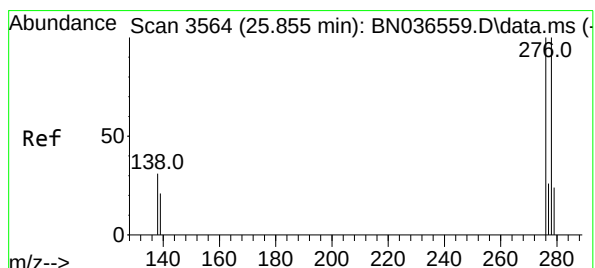
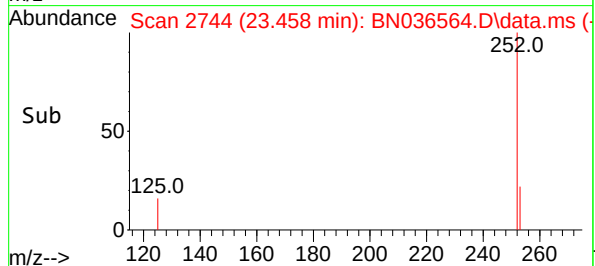
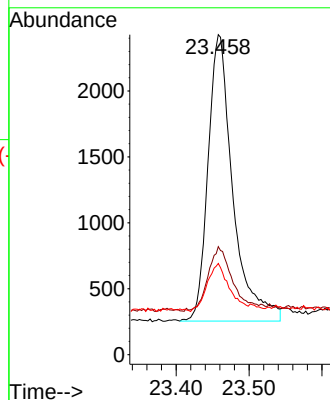
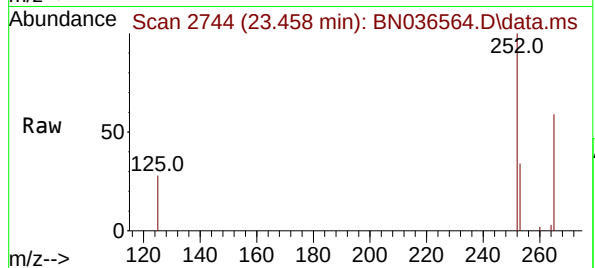
Tgt Ion:252 Resp: 5147

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

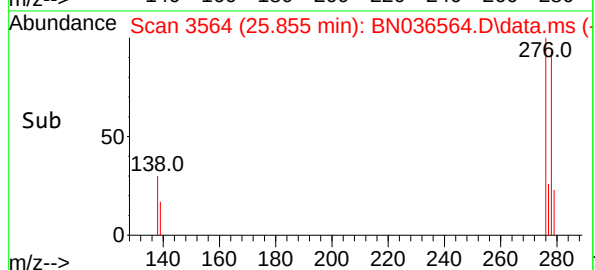
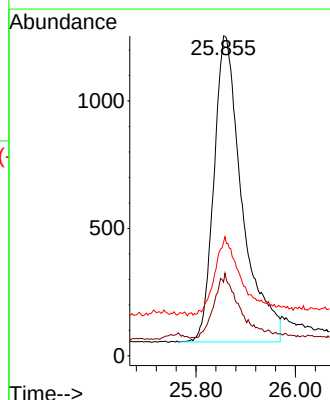
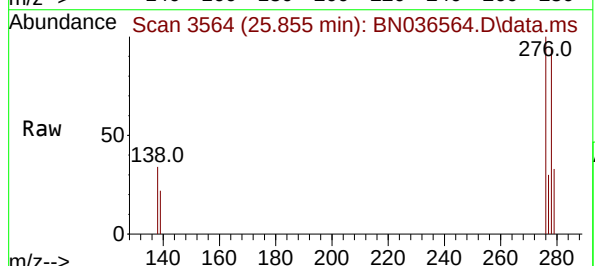
Tgt Ion:278 Resp: 4740

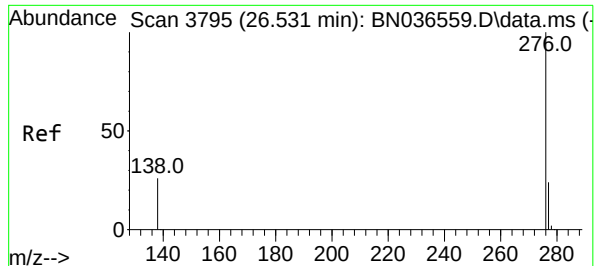
Ion Ratio Lower Upper

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

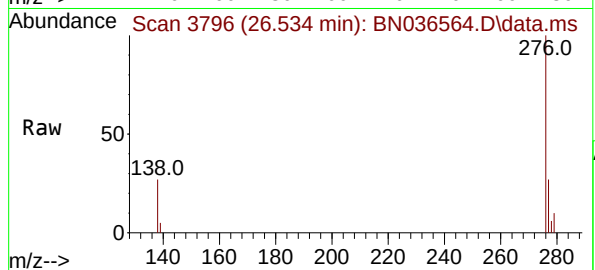
Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025



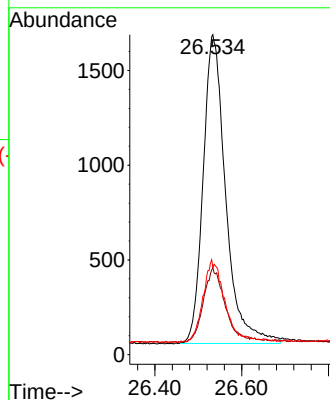
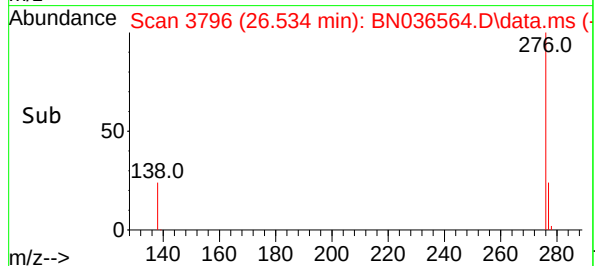
Tgt Ion:276 Resp: 5877

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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 10:09

Lab File ID: BN036601.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	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.108		8.1	20.0
2-Fluorophenol	0.932	0.929		-0.3	20.0
Phenol-d6	1.152	1.129		-2.0	20.0
Nitrobenzene-d5	0.435	0.423		-2.8	20.0
Naphthalene	1.177	1.208		2.6	20.0
2-Fluorobiphenyl	2.327	2.416		3.8	20.0
Acenaphthylene	1.888	1.966		4.1	20.0
Acenaphthene	1.236	1.276		3.2	20.0
Fluorene	1.672	1.785		6.8	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Phenanthrene	1.200	1.322		10.2	20.0
Anthracene	1.083	1.170		8.0	20.0
Fluoranthene	1.348	1.494		10.8	20.0
Pyrene	1.956	2.095		7.1	20.0
Terphenyl-d14	0.958	0.974		1.7	20.0
Benzo(a)anthracene	1.391	1.423		2.3	20.0
Chrysene	1.520	1.672		10.0	20.0
Benzo(b)fluoranthene	1.456	1.617		11.1	20.0
Benzo(k)fluoranthene	1.527	1.681		10.1	20.0
Benzo(a)pyrene	1.226	1.352		10.3	20.0
Indeno(1,2,3-cd)pyrene	1.444	1.543		6.9	20.0
Dibenzo(a,h)anthracene	1.124	1.154		2.7	20.0
Benzo(g,h,i)perylene	1.286	1.382		7.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036601.D
 Acq On : 14 Mar 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 14 10:56:35 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

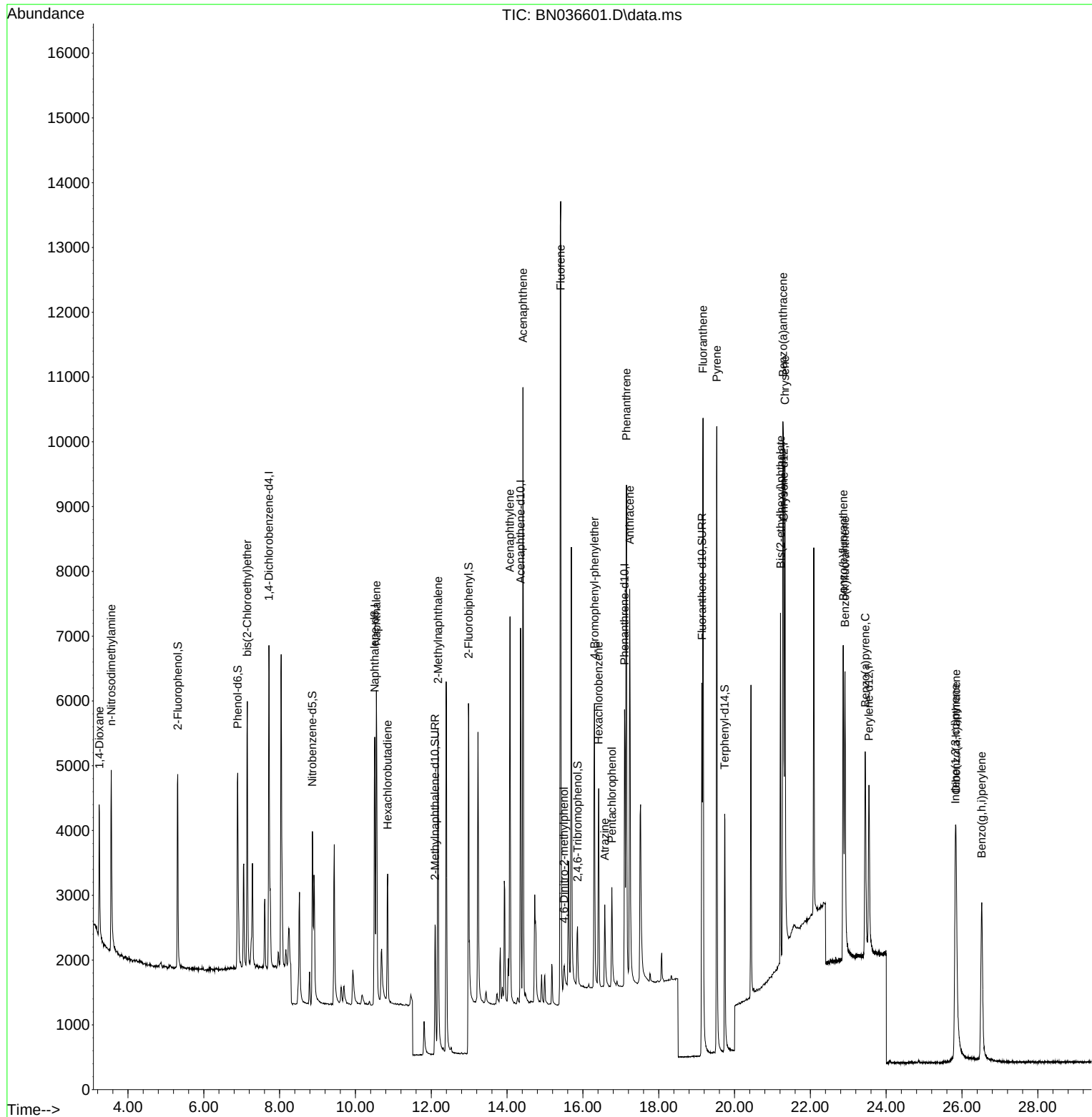
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2400	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5723	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	3321	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6547	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	4700	0.400	ng	# 0.00
35) Perylene-d12	23.546	264	3986	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2230	0.399	ng	0.00
5) Phenol-d6	6.894	99	2710	0.392	ng	0.00
8) Nitrobenzene-d5	8.865	82	2420	0.389	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3394	0.399	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	611	0.405	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	8025	0.415	ng	0.00
27) Fluoranthene-d10	19.141	212	7252	0.432	ng	0.00
31) Terphenyl-d14	19.740	244	4580	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1261	0.474	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.557	42	2390	0.444	ng	# 94
6) bis(2-Chloroethyl)ether	7.147	93	2922	0.409	ng	99
9) Naphthalene	10.552	128	6916	0.411	ng	100
10) Hexachlorobutadiene	10.850	225	1664	0.420	ng	# 100
12) 2-Methylnaphthalene	12.177	142	4295	0.401	ng	98
16) Acenaphthylene	14.078	152	6530	0.417	ng	100
17) Acenaphthene	14.420	154	4237	0.413	ng	98
18) Fluorene	15.414	166	5927	0.427	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	477	0.431	ng	85
21) 4-Bromophenyl-phenylether	16.304	248	1800	0.439	ng	# 88
22) Hexachlorobenzene	16.416	284	2210	0.446	ng	98
23) Atrazine	16.578	200	1367	0.416	ng	97
24) Pentachlorophenol	16.764	266	951	0.421	ng	99
25) Phenanthrene	17.149	178	8657	0.441	ng	100
26) Anthracene	17.235	178	7658	0.432	ng	100
28) Fluoranthene	19.169	202	9780	0.443	ng	100
30) Pyrene	19.531	202	9845	0.428	ng	100
32) Benzo(a)anthracene	21.277	228	6690	0.409	ng	99
33) Chrysene	21.331	228	7857	0.440	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	5063	0.435	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	6150	0.427	ng	96
37) Benzo(b)fluoranthene	22.867	252	6447	0.444	ng	95
38) Benzo(k)fluoranthene	22.914	252	6700	0.440	ng	94
39) Benzo(a)pyrene	23.446	252	5389	0.441	ng	94
40) Dibenzo(a,h)anthracene	25.844	278	4599	0.411	ng	97
41) Benzo(g,h,i)perylene	26.522	276	5508	0.430	ng	96

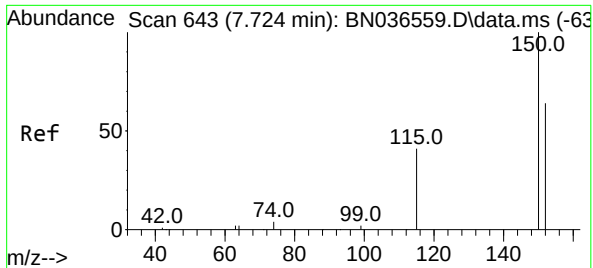
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 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

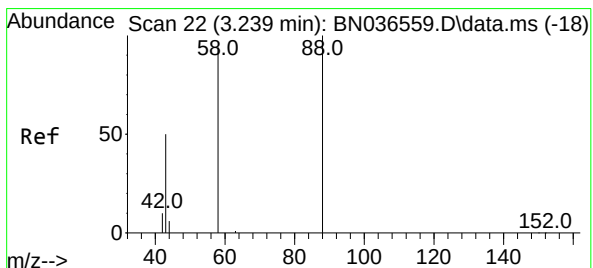
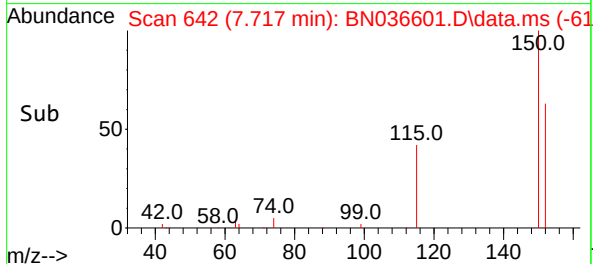
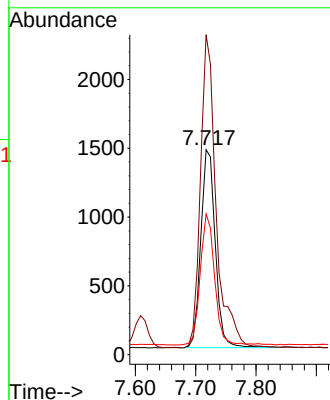
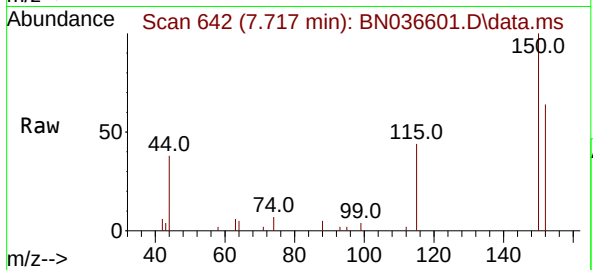




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

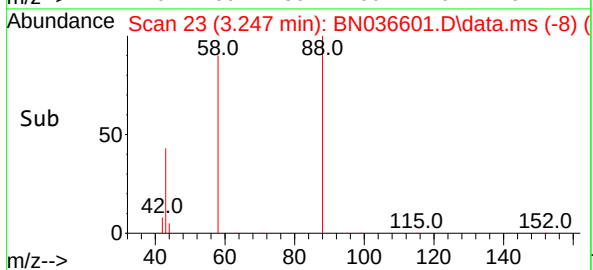
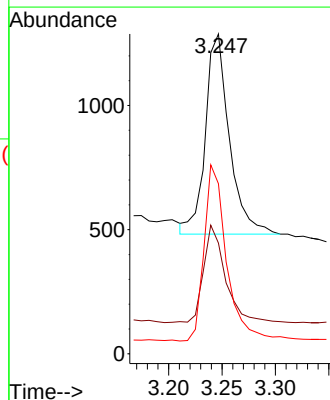
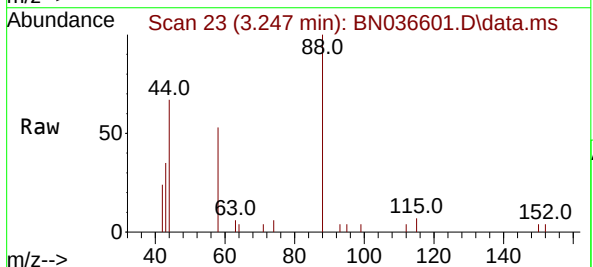
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2400
Ion Ratio Lower Upper
152 100
150 156.1 123.7 185.5
115 68.7 54.3 81.5

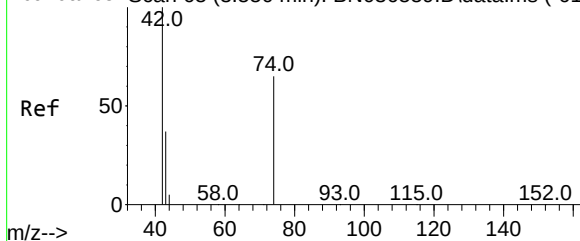


#2
1,4-Dioxane
Concen: 0.474 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion: 88 Resp: 1261
Ion Ratio Lower Upper
88 100
43 44.3 37.8 56.8
58 82.2 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.444 ng

RT: 3.557 min Scan# 6

Delta R.T. 0.007 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2390

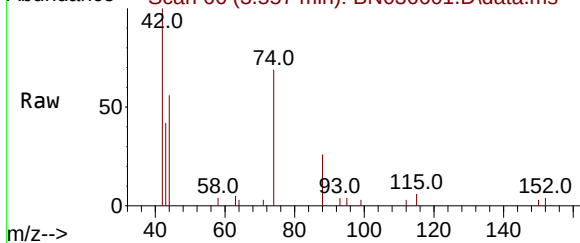
Ion Ratio Lower Upper

42 100

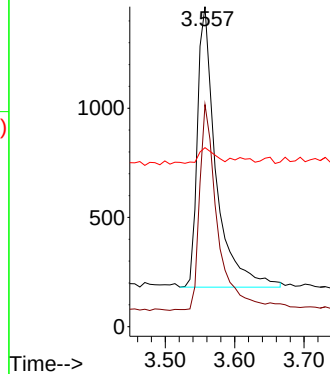
74 70.5 60.6 90.8

44 5.3 6.3 9.5#

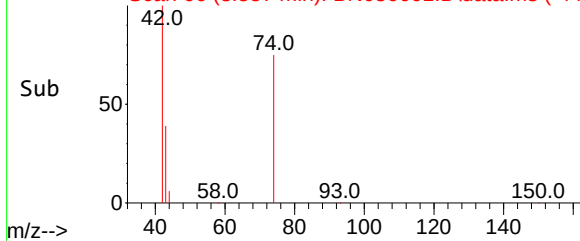
Abundance Scan 66 (3.557 min): BN036601.D\data.ms



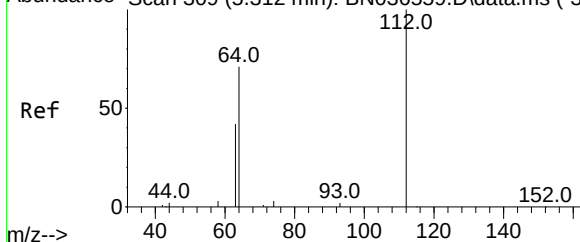
Abundance



Abundance Scan 66 (3.557 min): BN036601.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.399 ng

RT: 5.312 min Scan# 309

Delta R.T. 0.000 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

Tgt Ion: 112 Resp: 2230

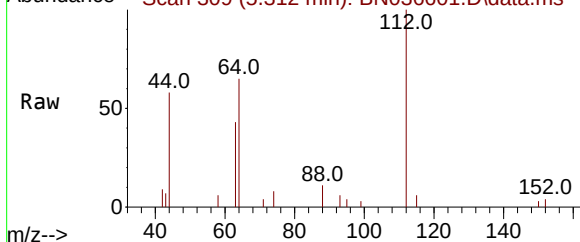
Ion Ratio Lower Upper

112 100

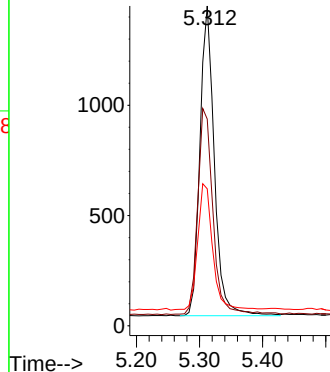
64 70.1 53.1 79.7

63 41.6 31.8 47.8

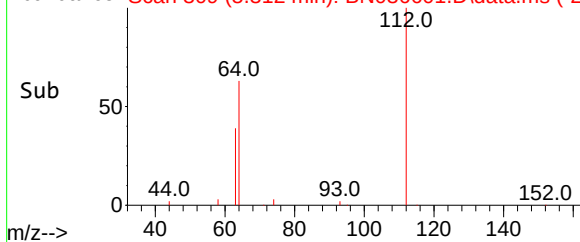
Abundance Scan 309 (5.312 min): BN036601.D\data.ms

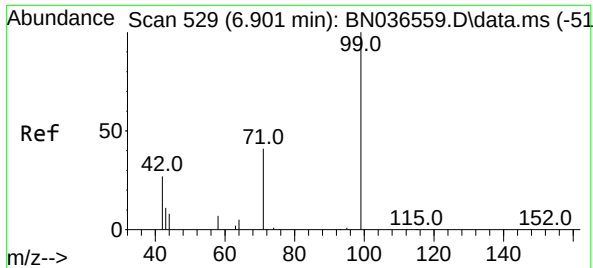


Abundance



Abundance Scan 309 (5.312 min): BN036601.D\data.ms (-28)

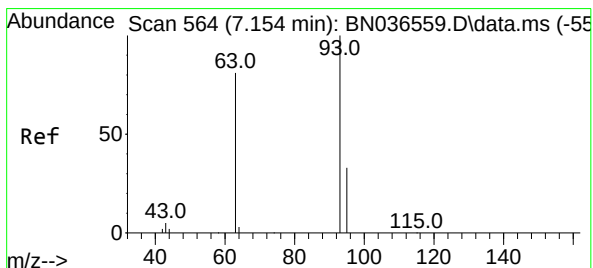
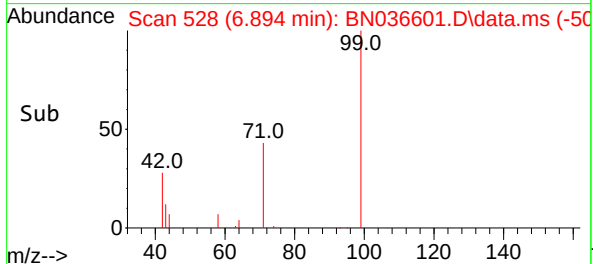
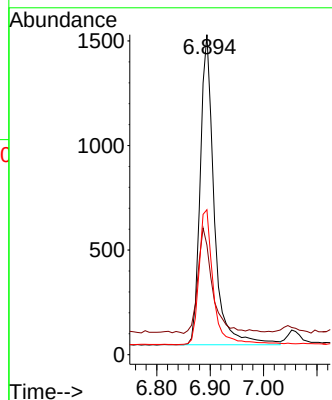
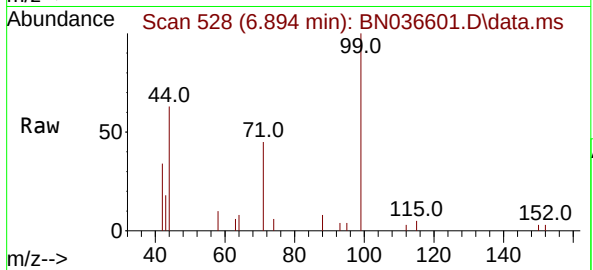




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

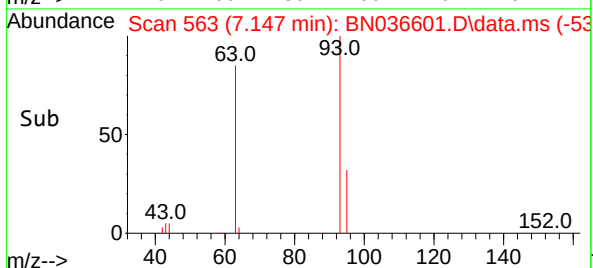
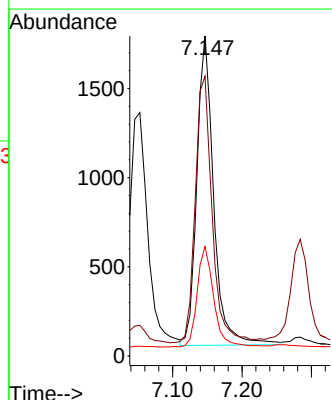
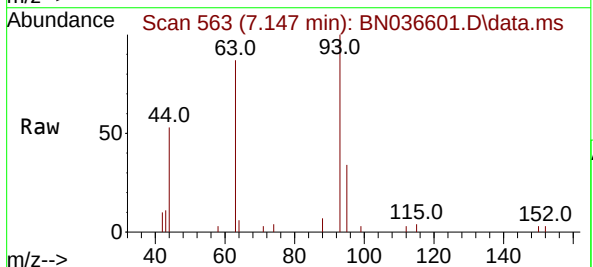
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

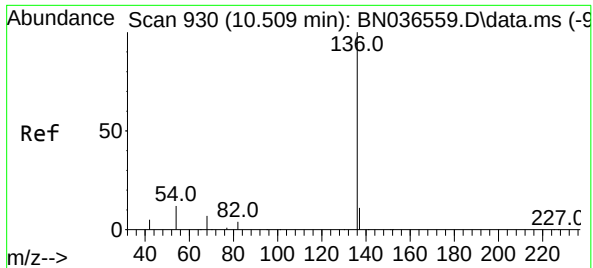
Tgt Ion: 99 Resp: 2710
Ion Ratio Lower Upper
99 100
42 35.0 26.5 39.7
71 45.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion: 93 Resp: 2922
Ion Ratio Lower Upper
93 100
63 86.3 67.7 101.5
95 32.0 25.6 38.4

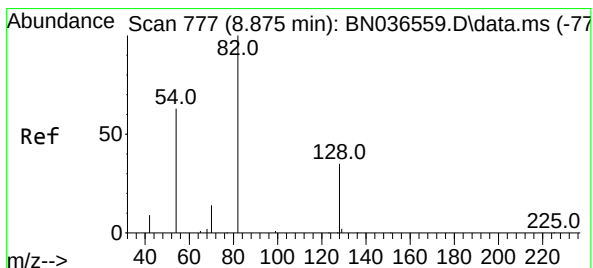
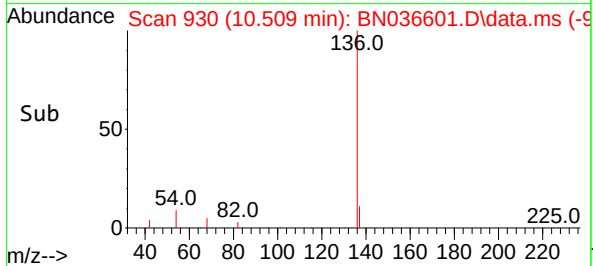
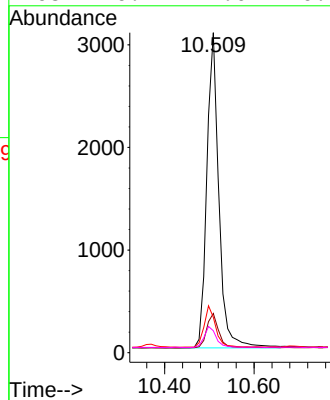
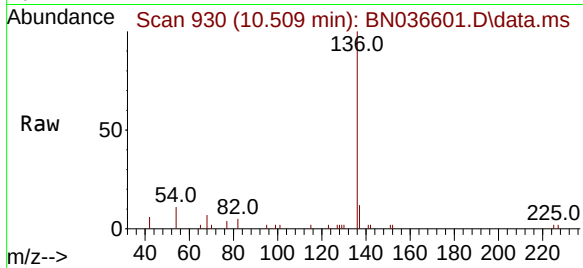




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

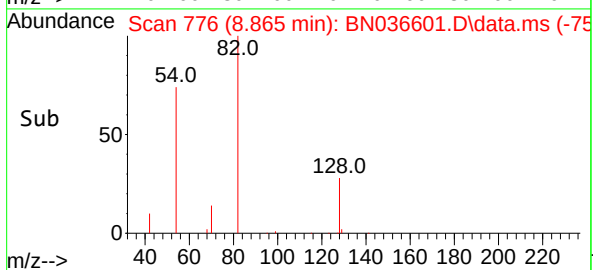
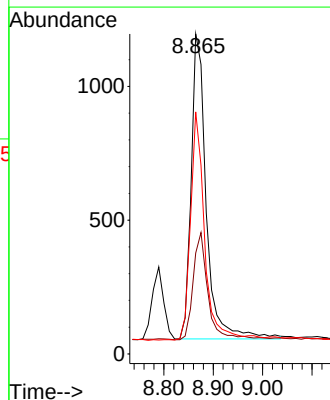
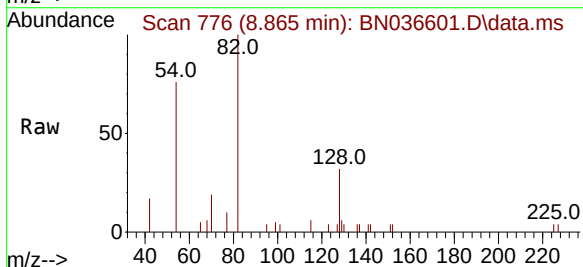
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

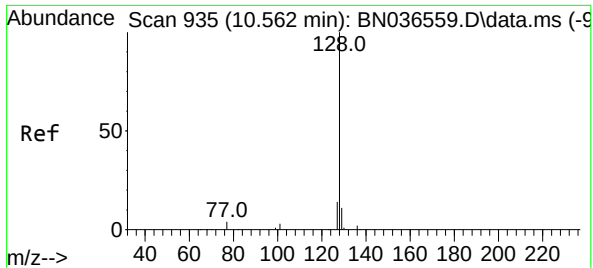
Tgt Ion:	136	Resp:	5723
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.0	11.5	17.3#
68	6.9	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:	82	Resp:	2420
Ion	Ratio	Lower	Upper
82	100		
128	31.5	30.6	45.8
54	75.7	52.2	78.4

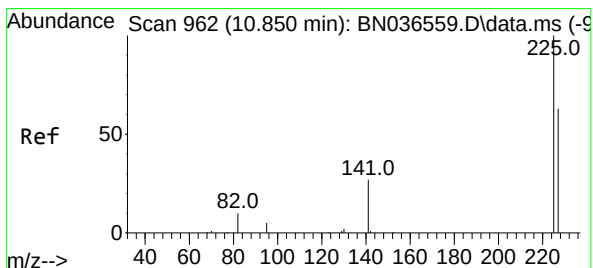
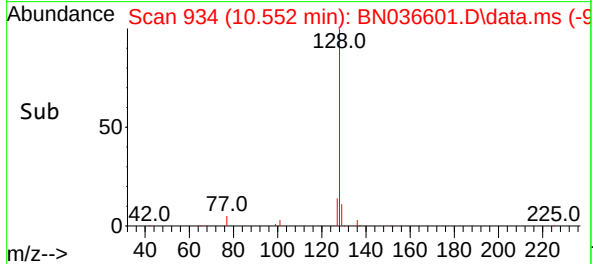
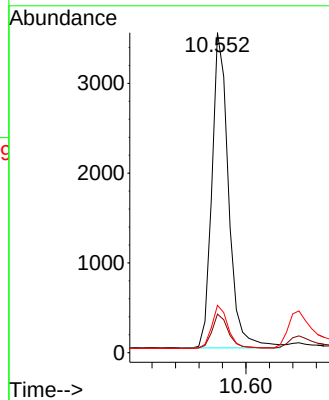
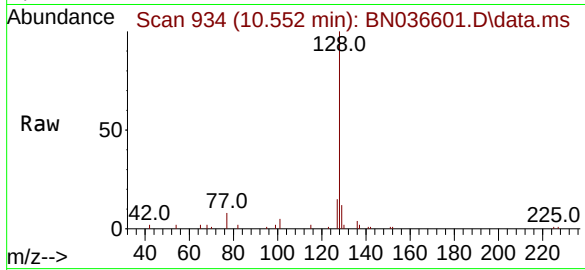




#9
Naphthalene
Concen: 0.411 ng
RT: 10.552 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

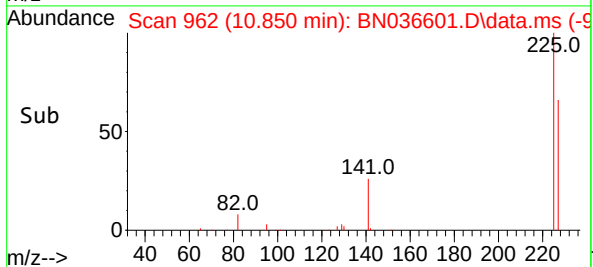
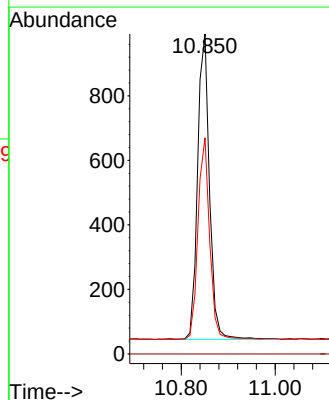
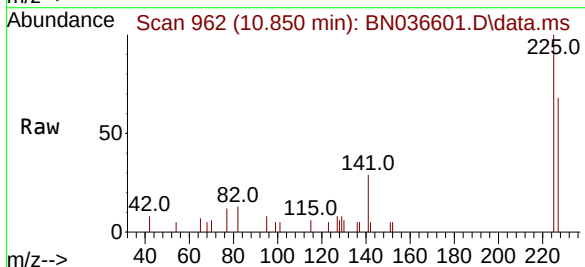
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

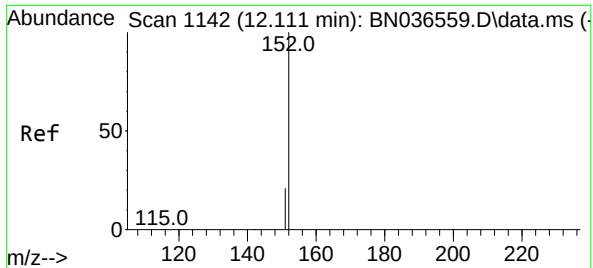
Tgt Ion:	128	Resp:	6916
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:	225	Resp:	1664
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8

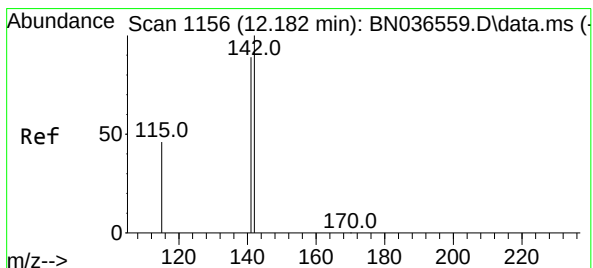
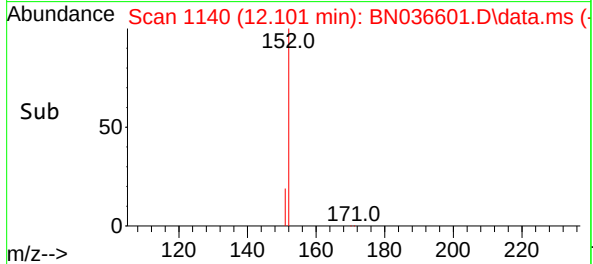
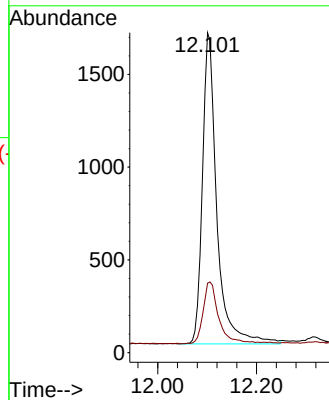
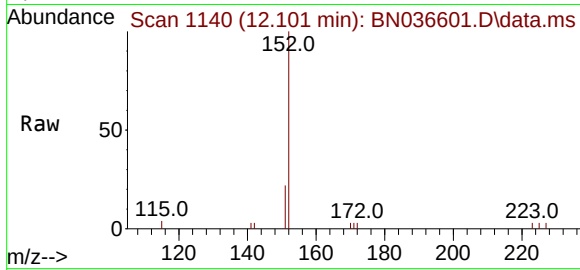




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

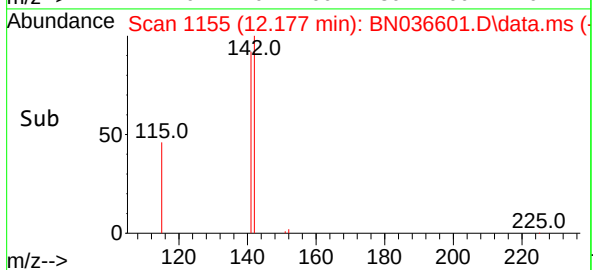
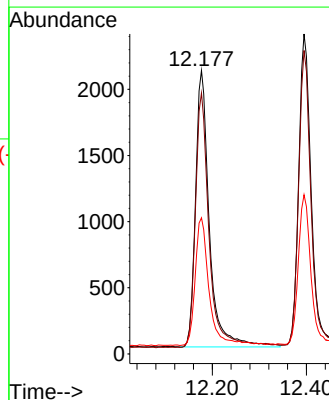
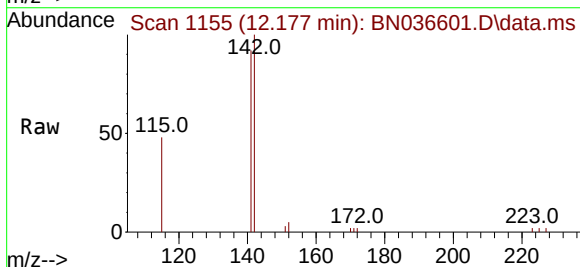
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

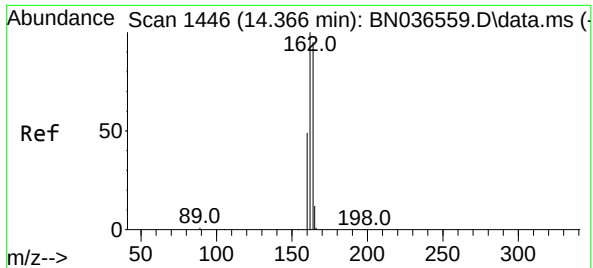
Tgt Ion:152 Resp: 3394
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:142 Resp: 4295
Ion Ratio Lower Upper
142 100
141 92.1 71.7 107.5
115 48.0 38.3 57.5

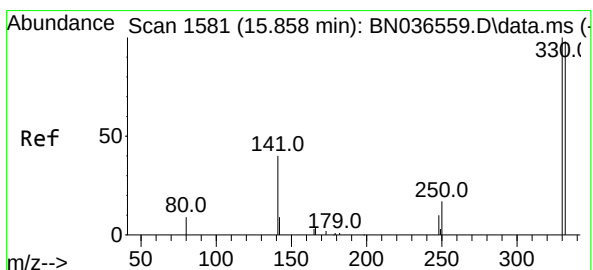
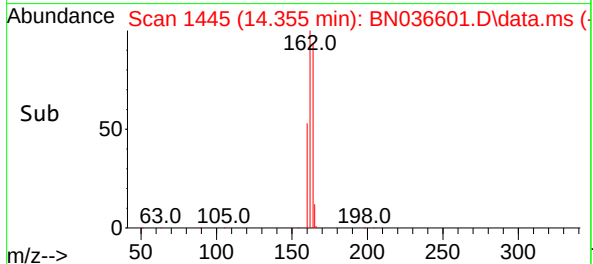
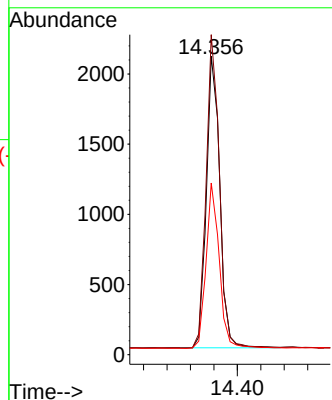
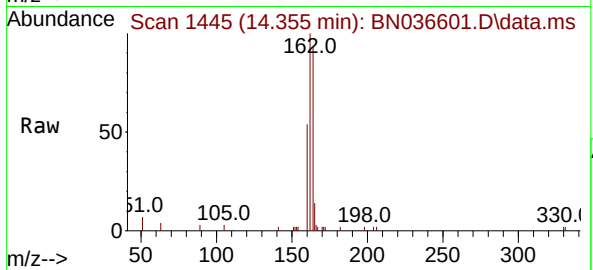




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

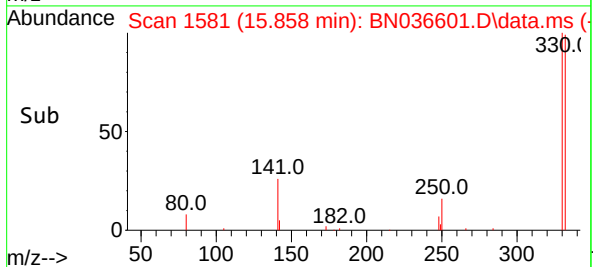
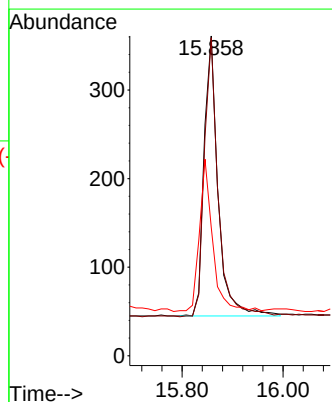
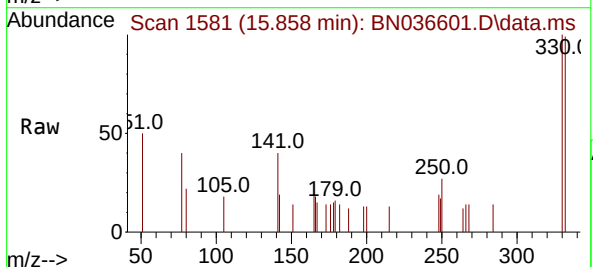
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

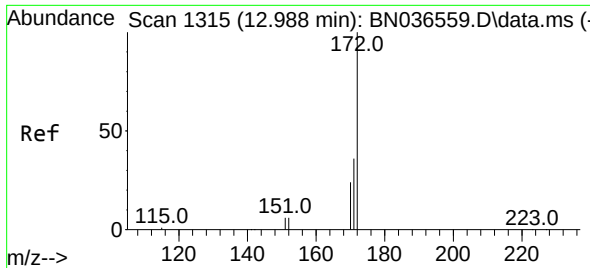
Tgt Ion:164 Resp: 3321
Ion Ratio Lower Upper
164 100
162 107.2 84.2 126.2
160 57.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:330 Resp: 611
Ion Ratio Lower Upper
330 100
332 99.2 75.2 112.8
141 51.6 43.4 65.2

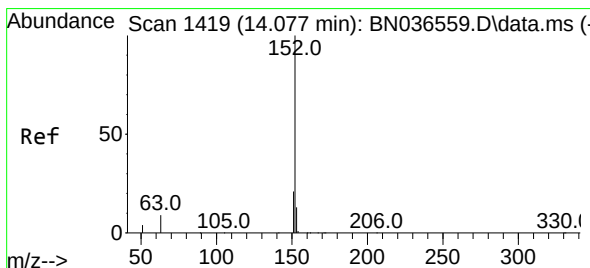
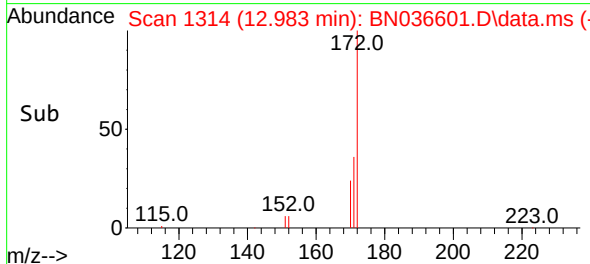
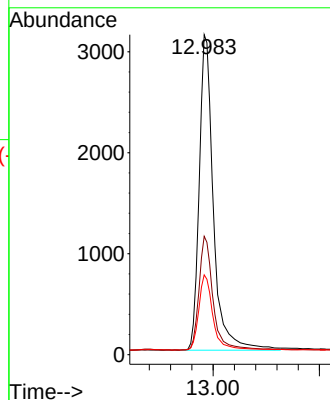
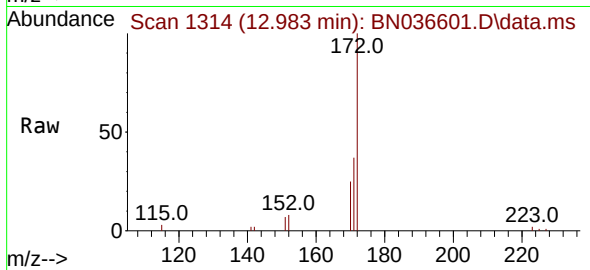




#15
2-Fluorobiphenyl
Concen: 0.415 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

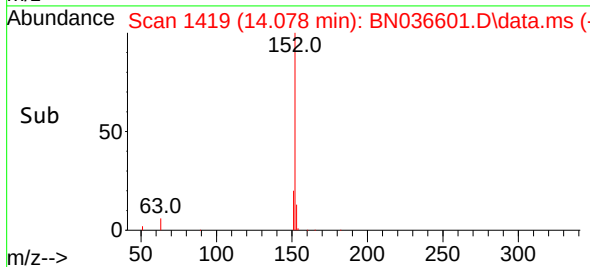
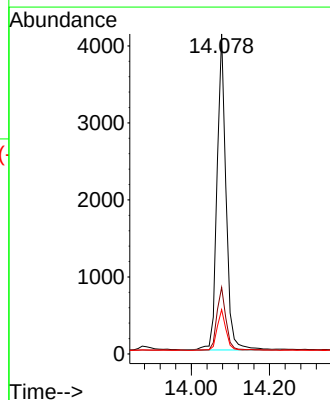
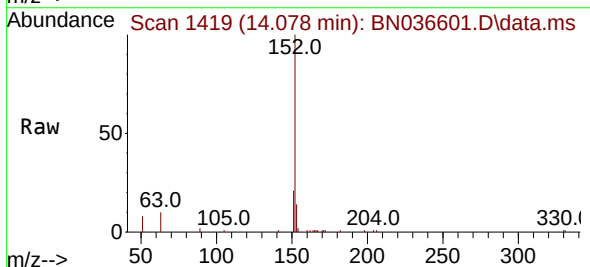
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

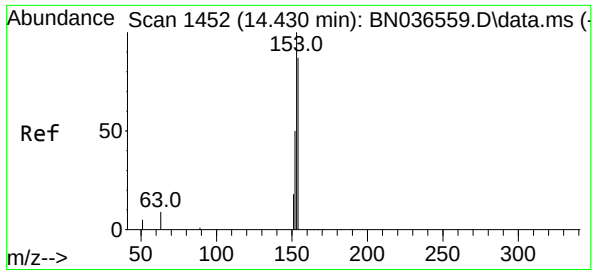
Tgt Ion:	172	Resp:	8025
Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	24.9	20.2	30.4



#16
Acenaphthylene
Concen: 0.417 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:	152	Resp:	6530
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.1	10.6	15.8

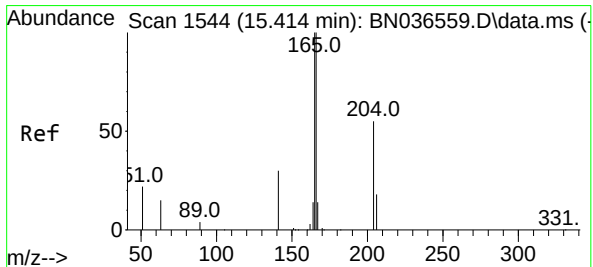
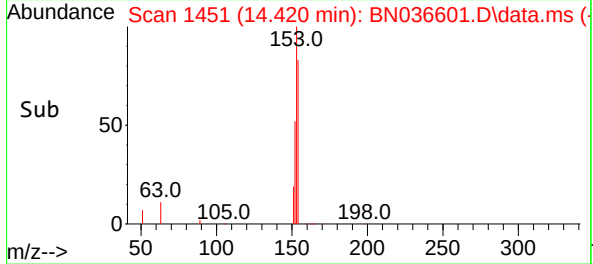
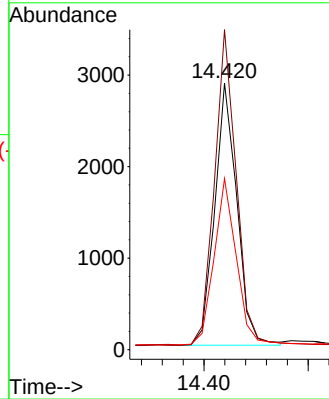
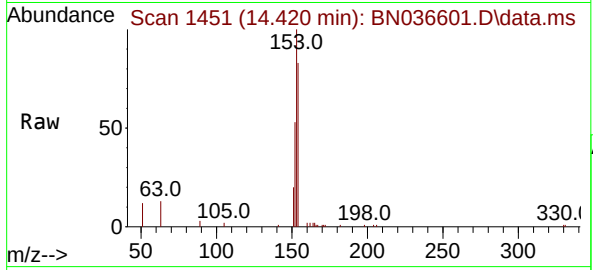




#17
Acenaphthene
Concen: 0.413 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

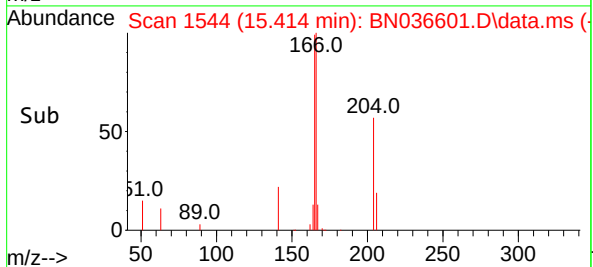
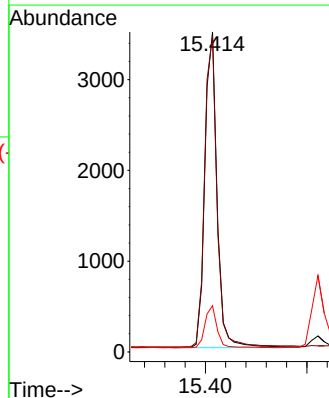
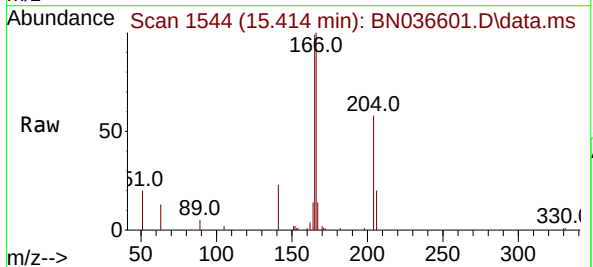
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

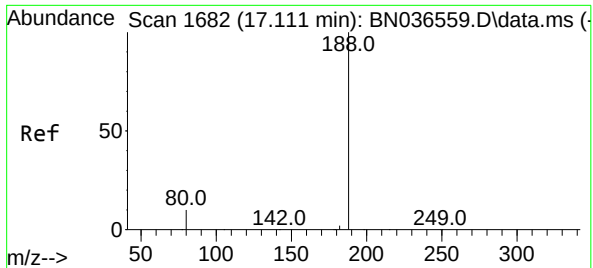
Tgt Ion:154 Resp: 4237
Ion Ratio Lower Upper
154 100
153 118.9 94.1 141.1
152 64.1 49.8 74.6



#18
Fluorene
Concen: 0.427 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:166 Resp: 5927
Ion Ratio Lower Upper
166 100
165 99.6 79.8 119.8
167 13.2 10.6 15.8

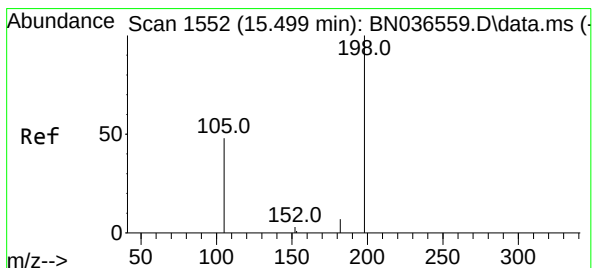
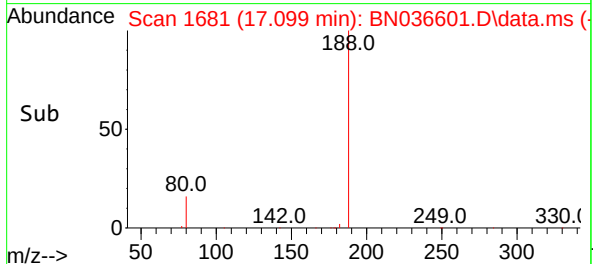
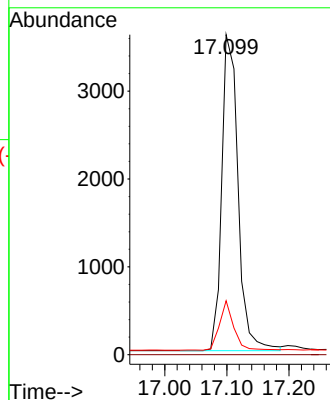
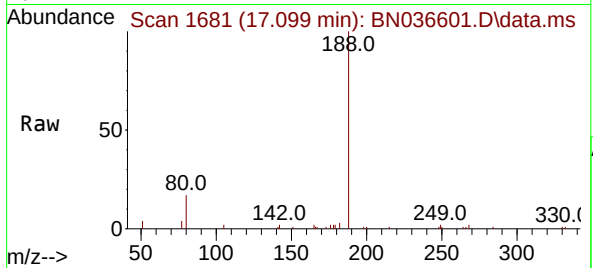




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

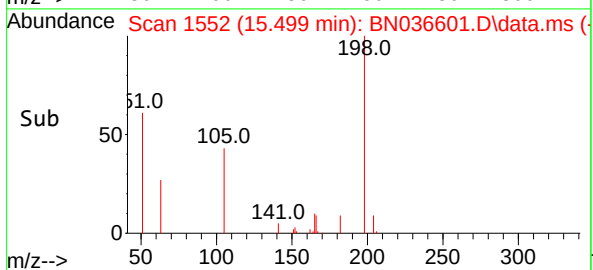
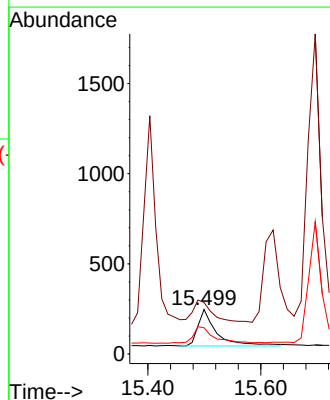
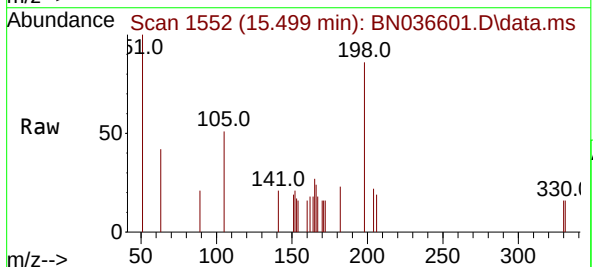
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

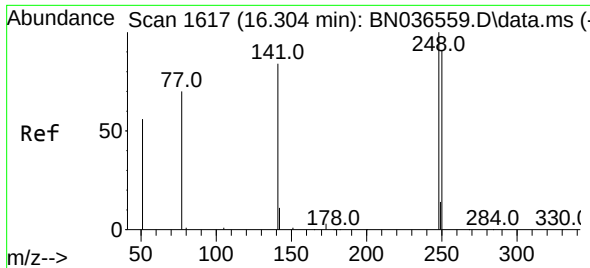
Tgt Ion:188 Resp: 6547
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.9 8.8 13.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.431 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:198 Resp: 477
Ion Ratio Lower Upper
198 100
51 115.8 107.9 161.9
105 59.1 56.2 84.2

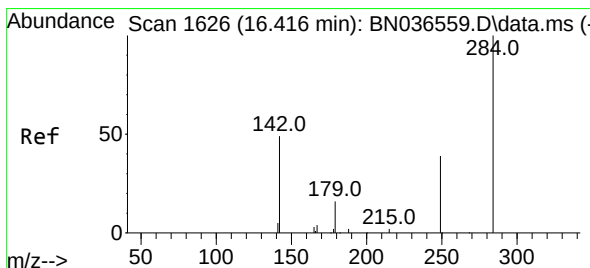
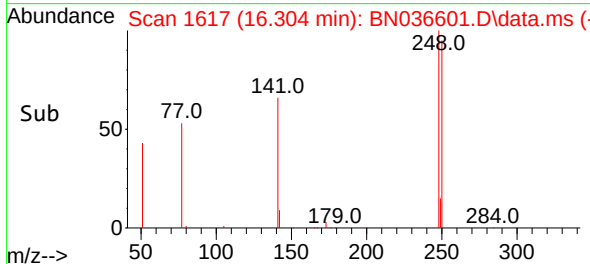
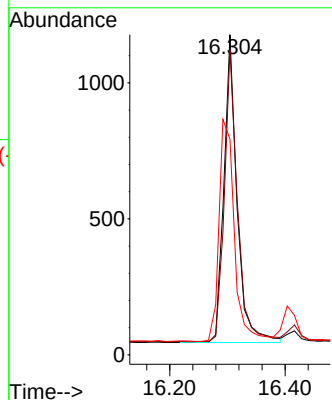
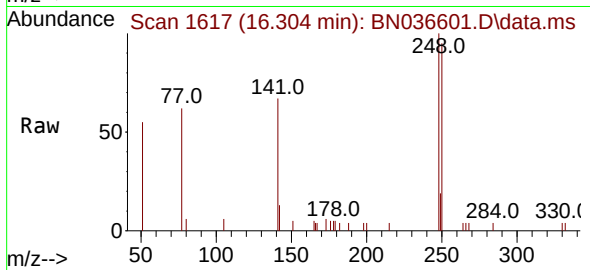




#21
4-Bromophenyl-phenylether
Concen: 0.439 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

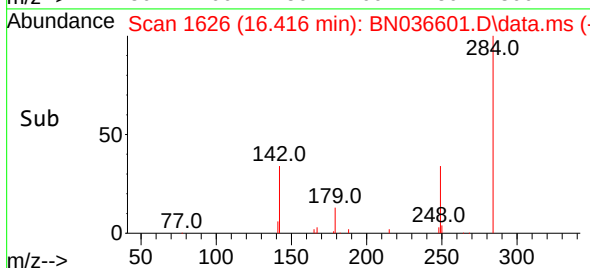
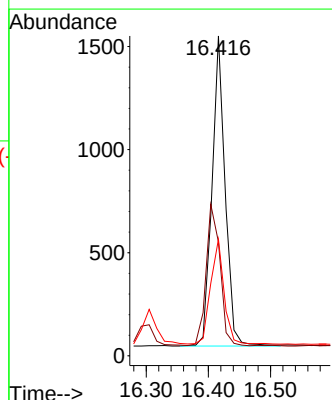
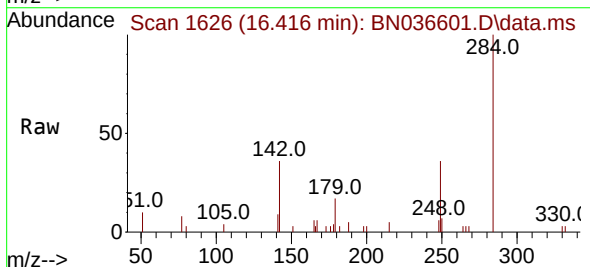
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

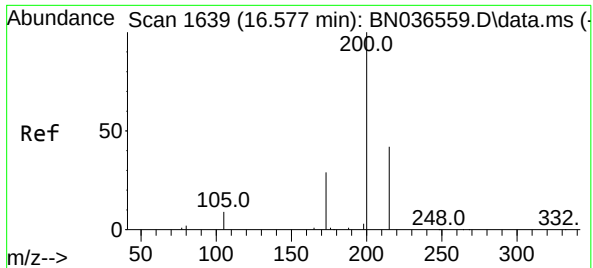
Tgt Ion:248 Resp: 1800
Ion Ratio Lower Upper
248 100
250 95.2 73.0 109.6
141 67.4 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:284 Resp: 2210
Ion Ratio Lower Upper
284 100
142 48.5 37.0 55.4
249 35.3 28.1 42.1

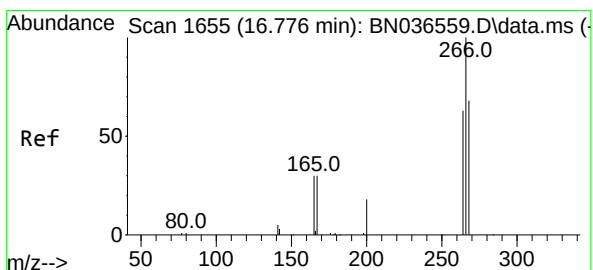
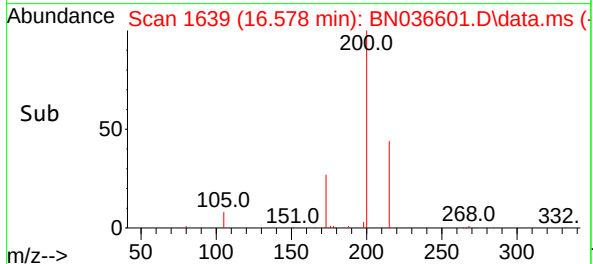
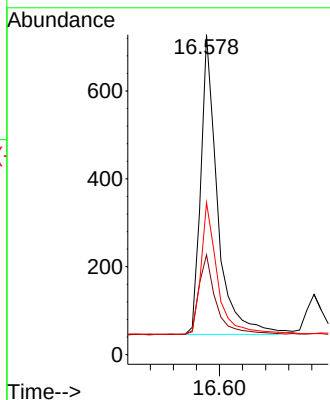
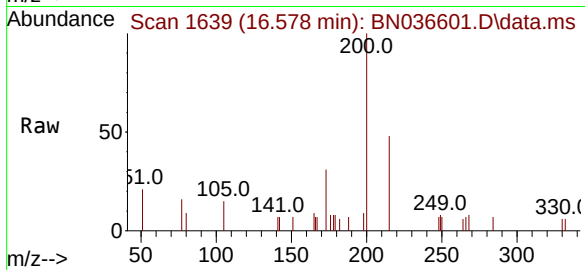




#23
Atrazine
Concen: 0.416 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

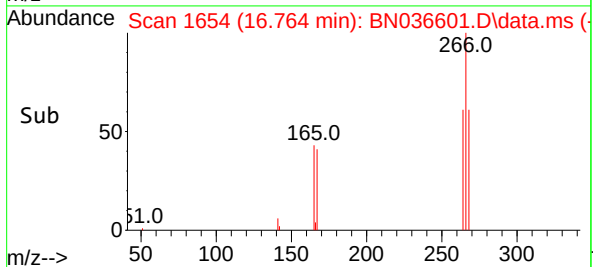
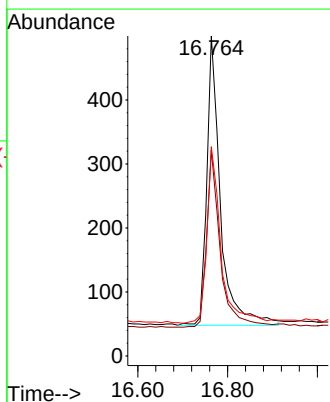
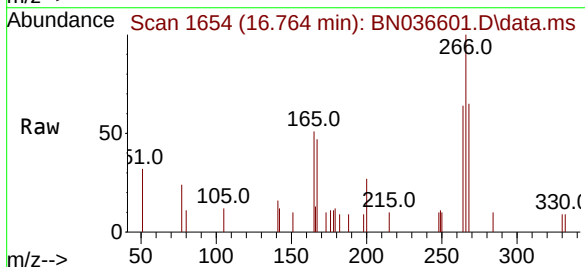
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

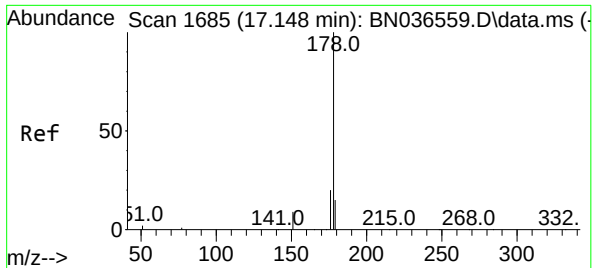
Tgt Ion	200	Resp:	1367
Ion Ratio	Lower	Upper	
200	100		
173	31.2	27.3	40.9
215	47.5	36.8	55.2



#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion	266	Resp:	951
Ion Ratio	Lower	Upper	
266	100		
264	60.9	49.6	74.4
268	62.6	50.9	76.3

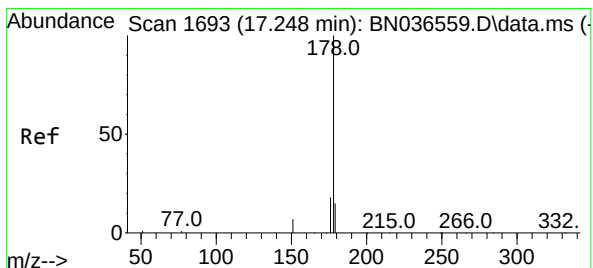
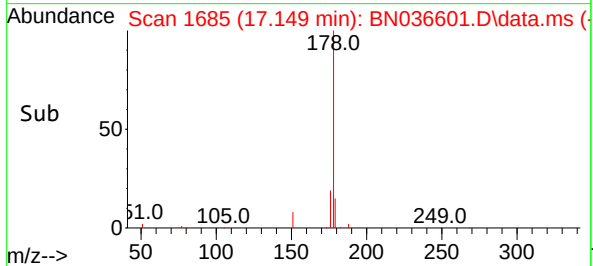
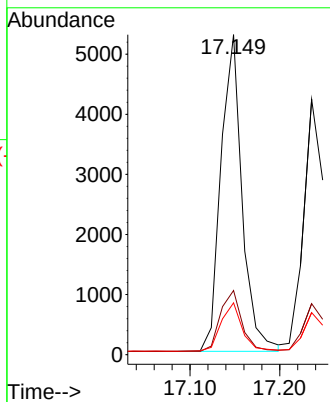
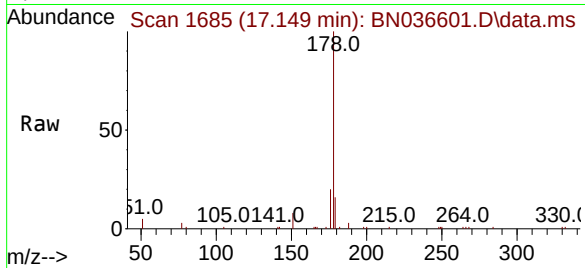




#25
Phenanthrene
Concen: 0.441 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

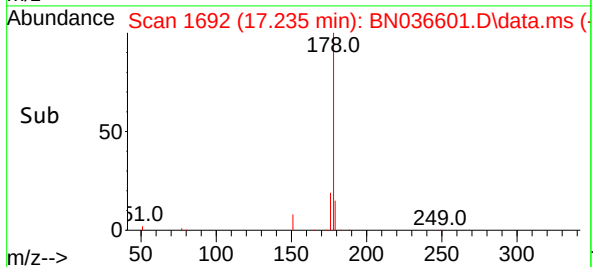
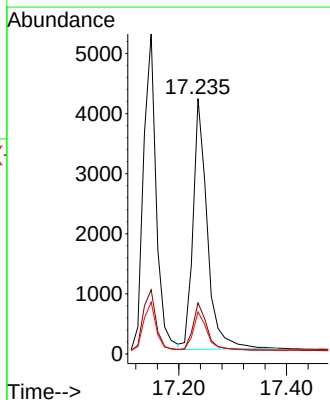
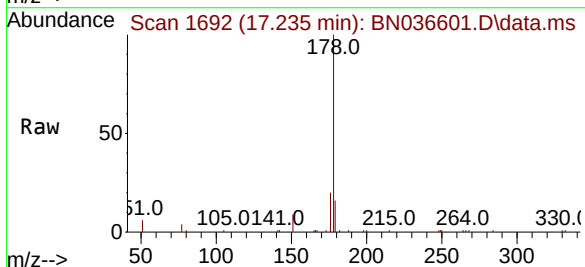
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

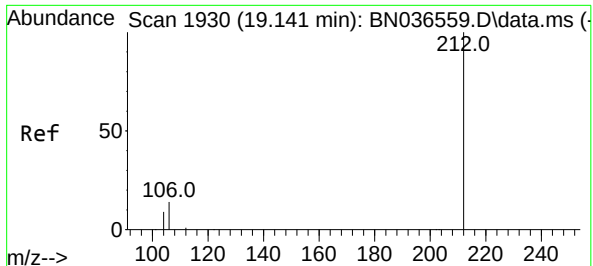
Tgt Ion:178 Resp: 8657
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.432 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:178 Resp: 7658
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.4 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.432 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

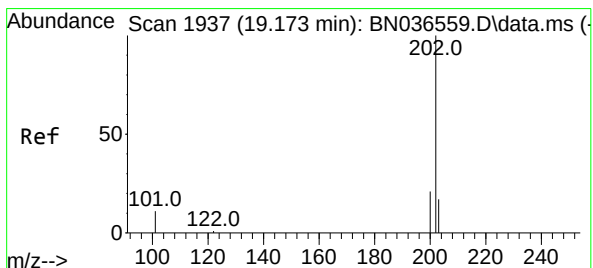
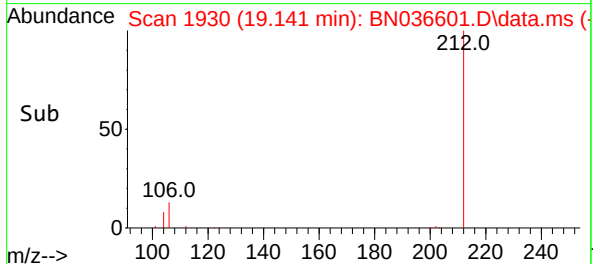
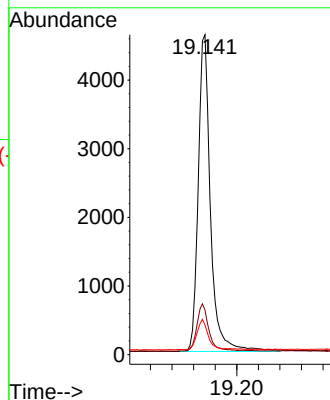
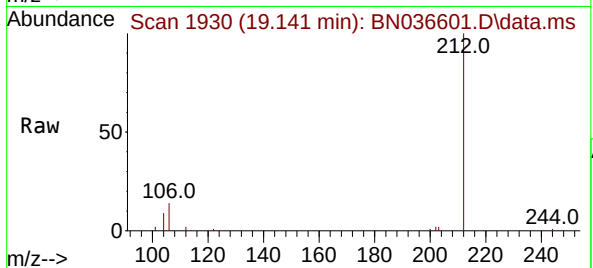
Tgt Ion:212 Resp: 7252

Ion Ratio Lower Upper

212 100

106 14.4 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.443 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

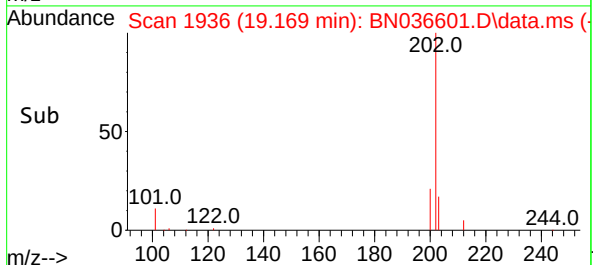
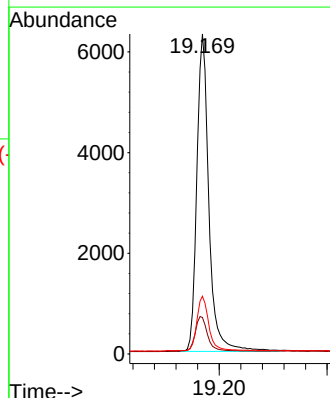
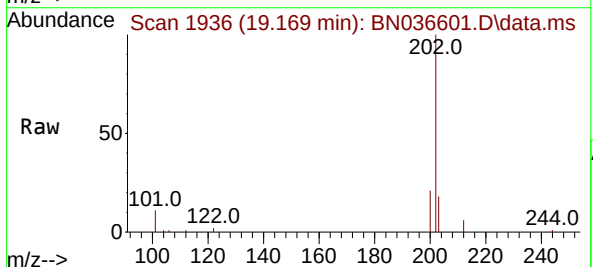
Tgt Ion:202 Resp: 9780

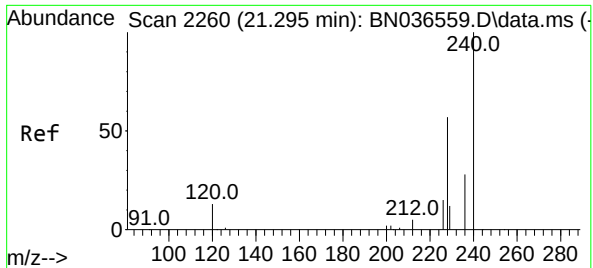
Ion Ratio Lower Upper

202 100

101 11.3 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: BN036601.D

Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

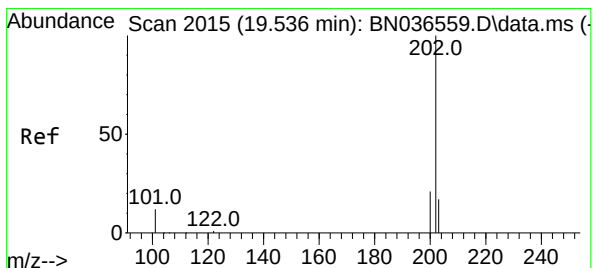
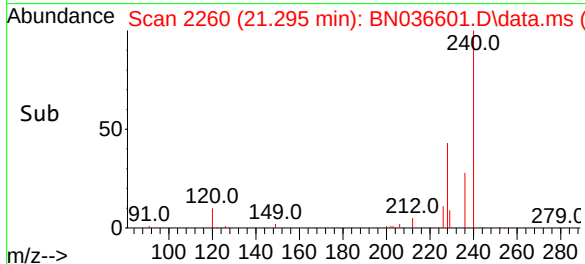
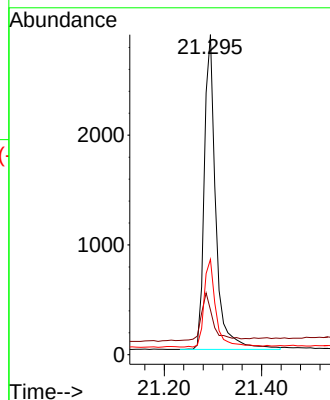
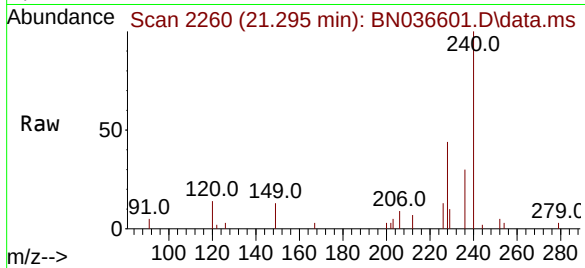
Tgt Ion:240 Resp: 4700

Ion Ratio Lower Upper

240 100

120 14.0 14.6 22.0#

236 29.8 24.1 36.1



#30

Pyrene

Concen: 0.428 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

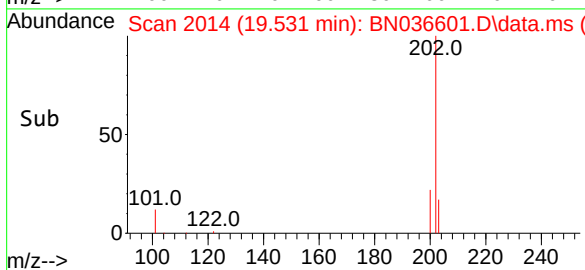
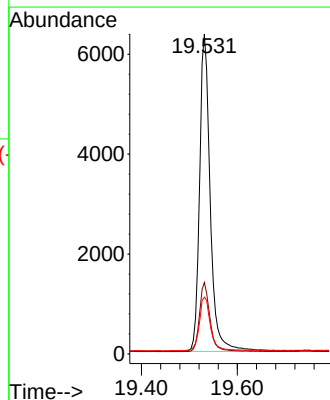
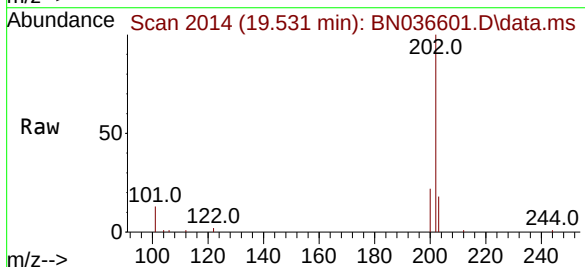
Tgt Ion:202 Resp: 9845

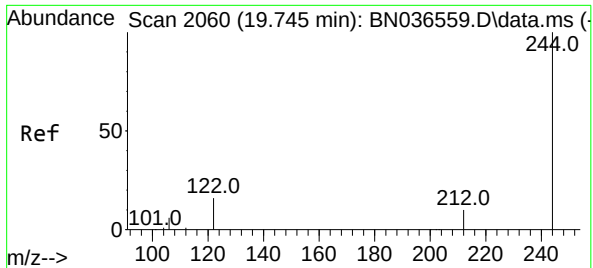
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.6 14.1 21.1

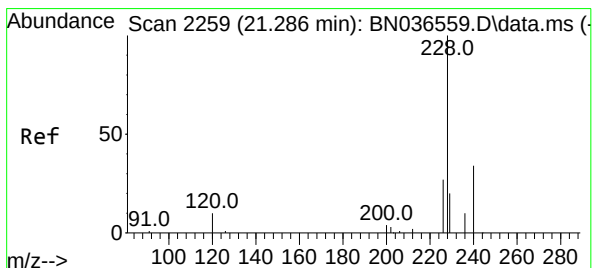
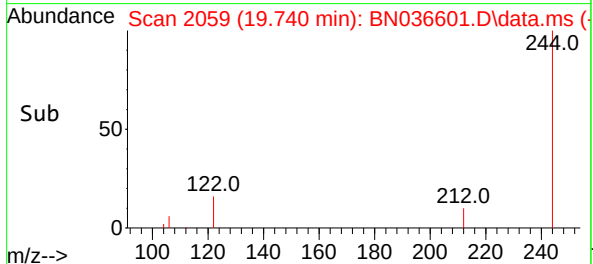
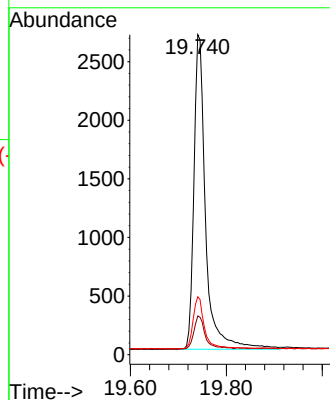
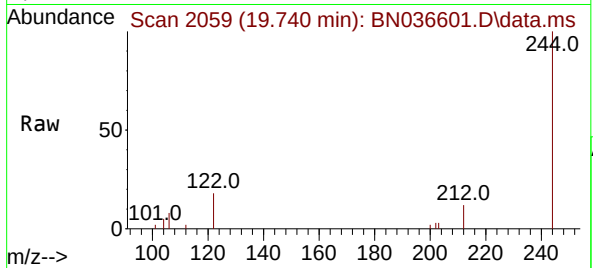




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

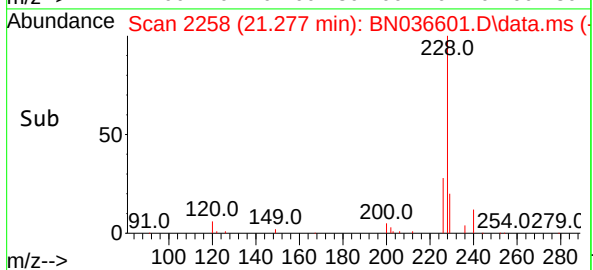
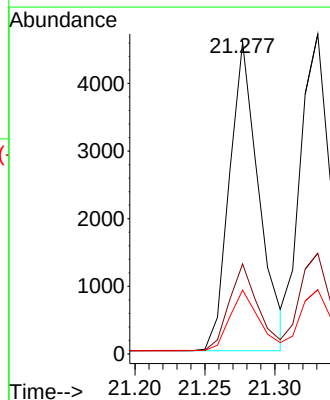
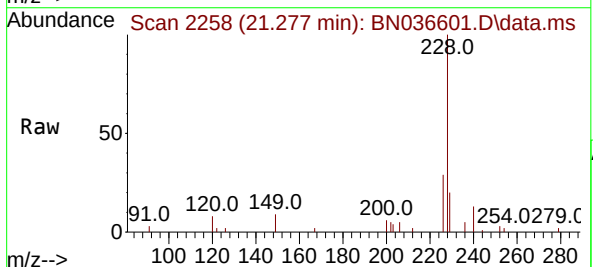
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

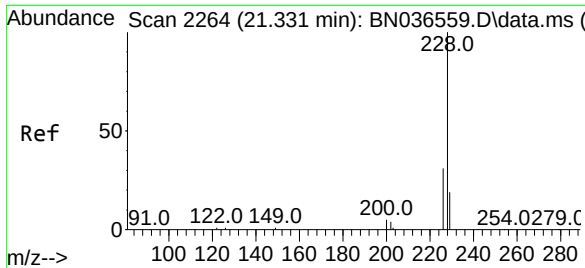
Tgt Ion:244 Resp: 4580
Ion Ratio Lower Upper
244 100
212 12.1 9.6 14.4
122 18.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.409 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:228 Resp: 6690
Ion Ratio Lower Upper
228 100
226 28.9 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: BN036601.D

Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

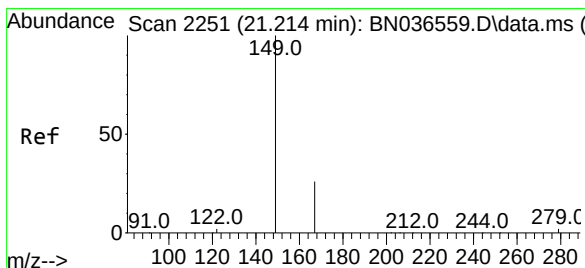
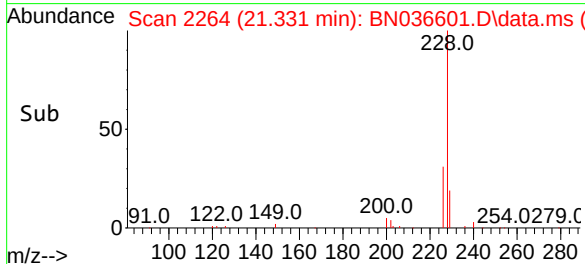
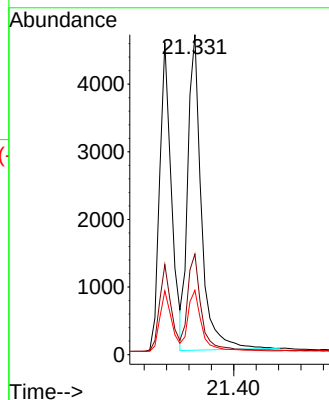
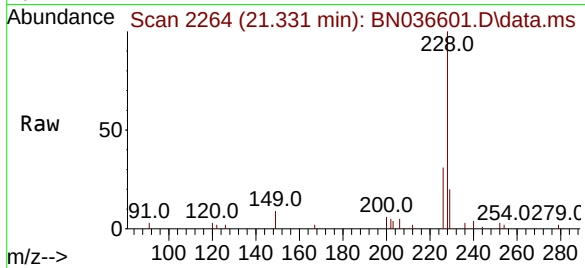
Tgt Ion:228 Resp: 7857

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: 0.435 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

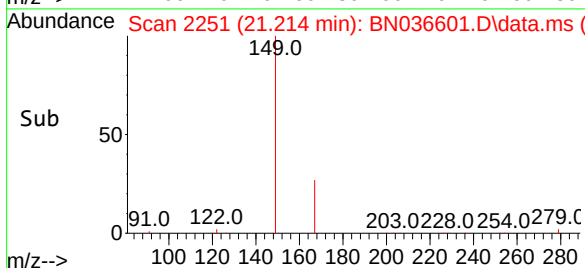
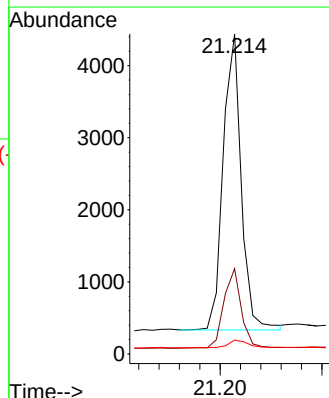
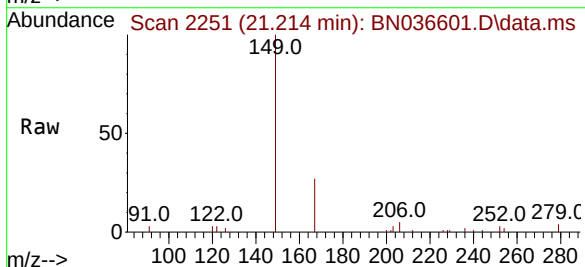
Tgt Ion:149 Resp: 5063

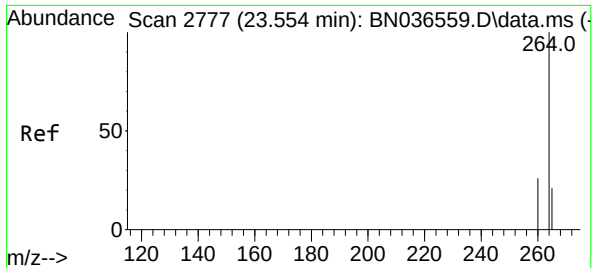
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.2 3.6 5.4#

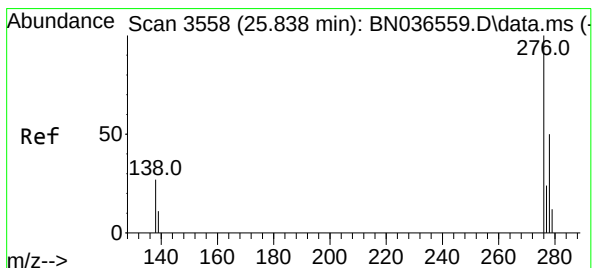
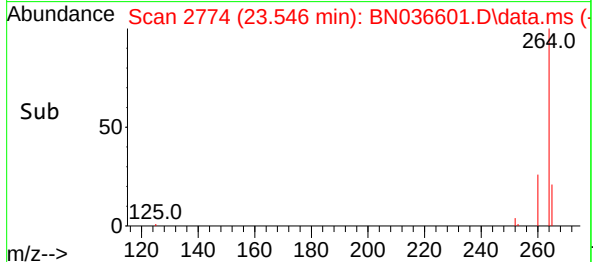
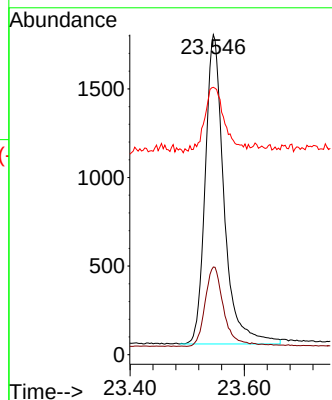
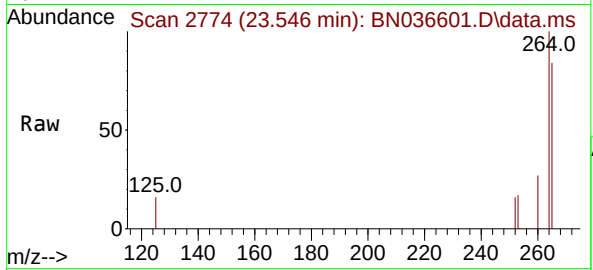




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

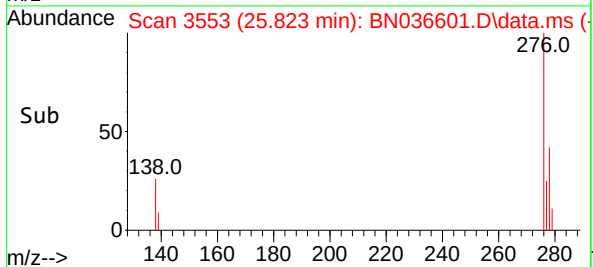
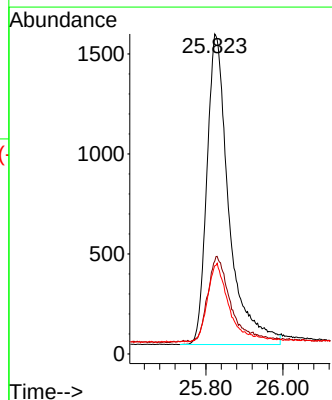
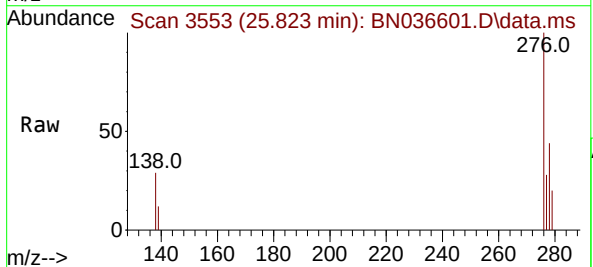
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

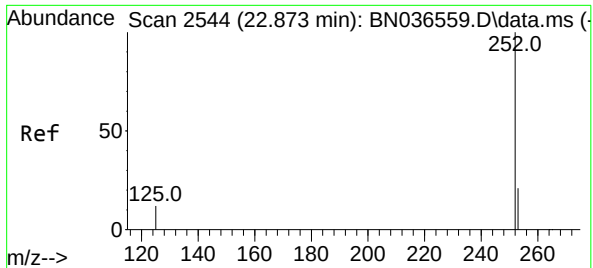
Tgt Ion:264 Resp: 3986
Ion Ratio Lower Upper
264 100
260 27.4 22.6 33.8
265 83.6 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.015 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:276 Resp: 6150
Ion Ratio Lower Upper
276 100
138 27.0 23.4 35.2
277 23.4 20.0 30.0

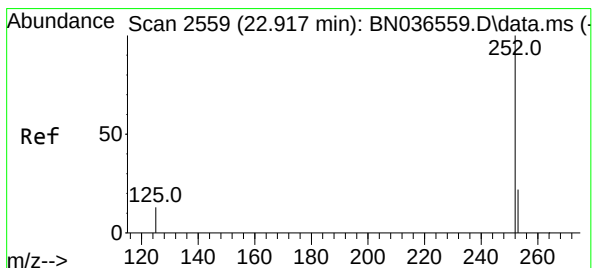
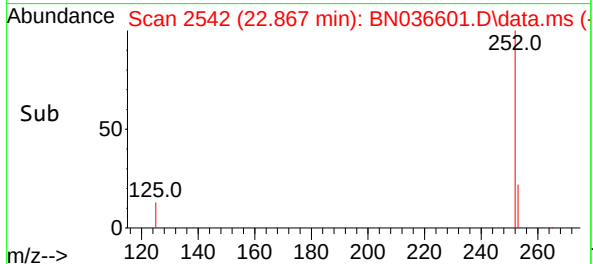
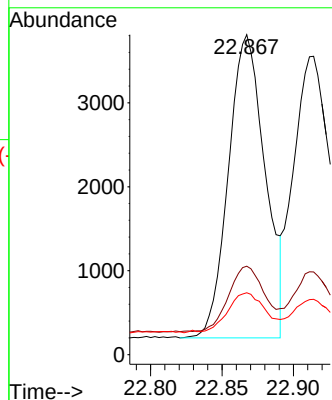
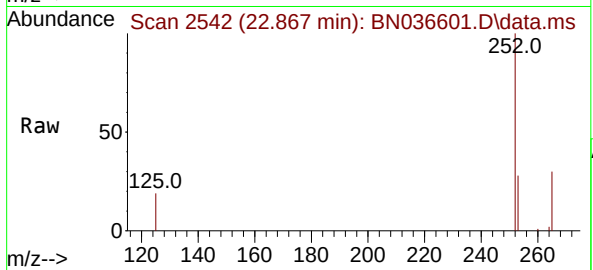




#37
Benzo(b)fluoranthene
Concen: 0.444 ng
RT: 22.867 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

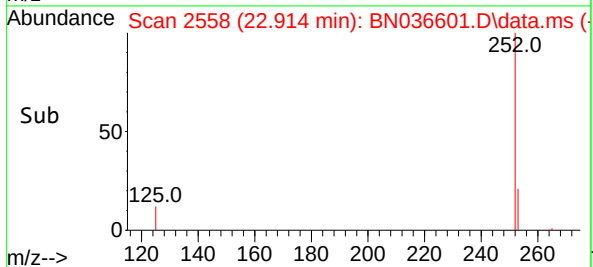
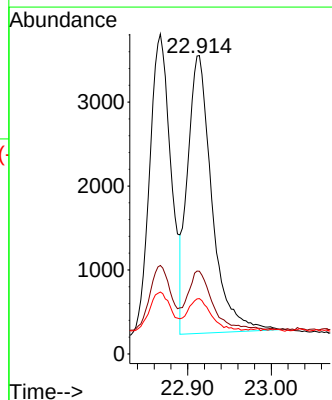
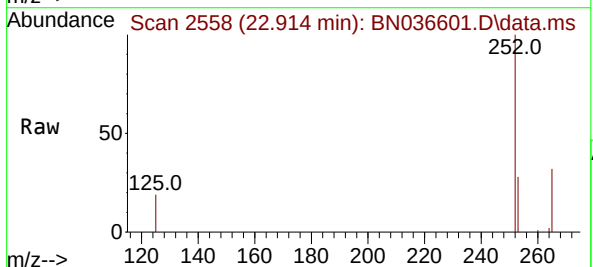
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

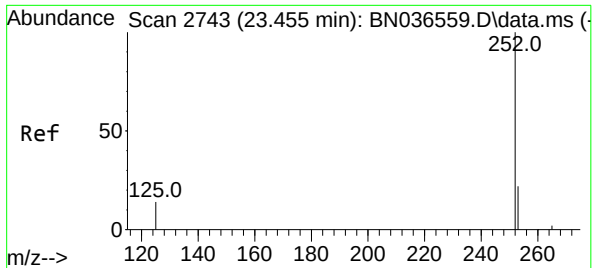
Tgt Ion:252 Resp: 6447
Ion Ratio Lower Upper
252 100
253 27.7 23.9 35.9
125 19.3 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.440 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036601.D
Acq: 14 Mar 2025 10:09

Tgt Ion:252 Resp: 6700
Ion Ratio Lower Upper
252 100
253 27.7 24.6 36.8
125 18.5 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.441 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

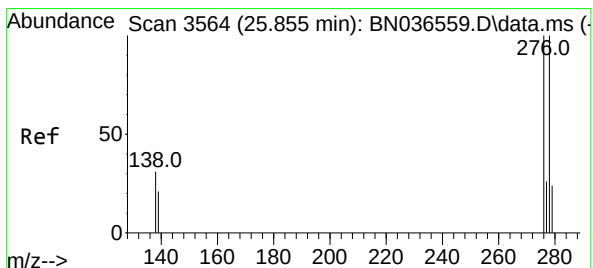
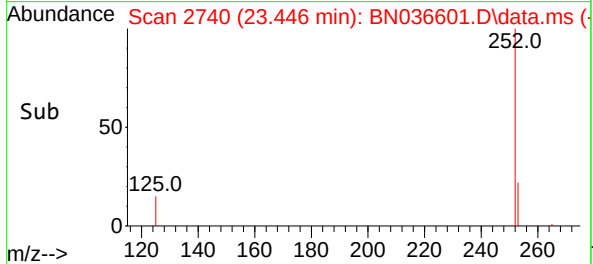
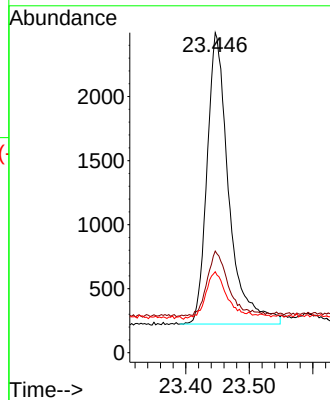
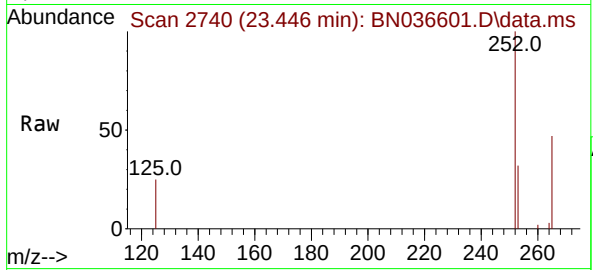
Tgt Ion:252 Resp: 5389

Ion Ratio Lower Upper

252 100

253 31.7 27.8 41.8

125 25.3 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 25.844 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036601.D

Acq: 14 Mar 2025 10:09

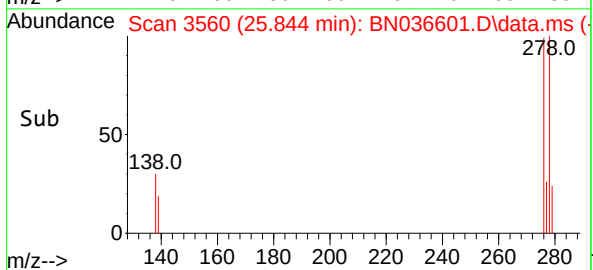
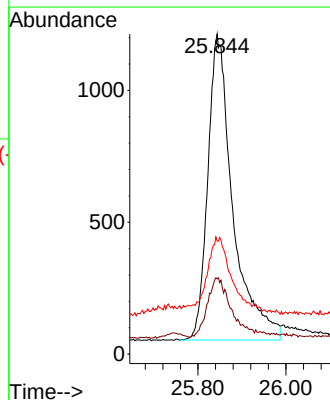
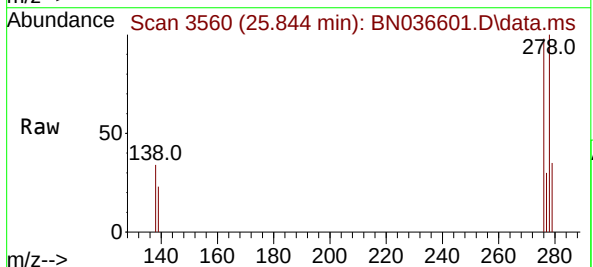
Tgt Ion:278 Resp: 4599

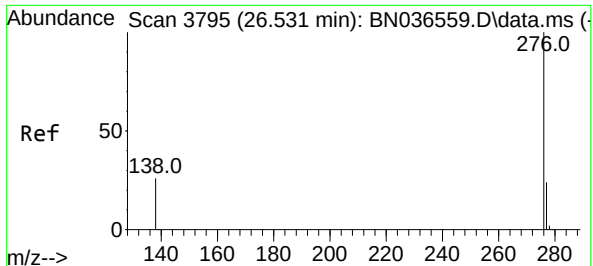
Ion Ratio Lower Upper

278 100

139 23.5 20.8 31.2

279 35.3 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.522 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN036601.D

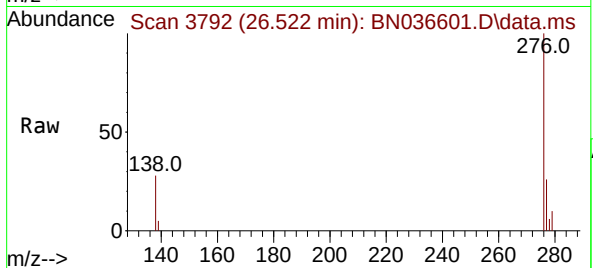
Acq: 14 Mar 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



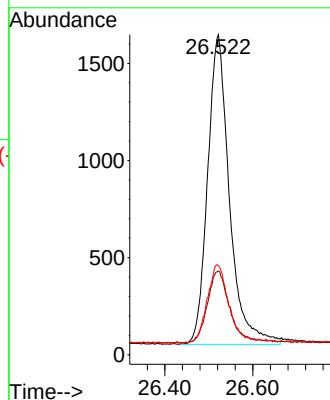
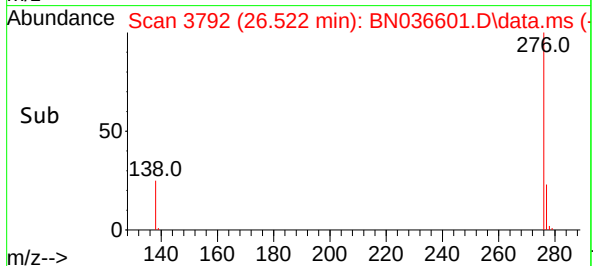
Tgt Ion:276 Resp: 5508

Ion Ratio Lower Upper

276 100

277 26.2 22.2 33.4

138 27.8 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 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	109	0.00
2	1,4-Dioxane	0.444	0.525	-18.2	115	0.00
3	n-Nitrosodimethylamine	0.898	0.996	-10.9	116	0.00
4 S	2-Fluorophenol	0.932	0.929	0.3	102	0.00
5 S	Phenol-d6	1.152	1.129	2.0	109	0.00
6	bis(2-Chloroethyl)ether	1.190	1.218	-2.4	112	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	112	0.00
8 S	Nitrobenzene-d5	0.435	0.423	2.8	115	-0.01
9	Naphthalene	1.177	1.208	-2.6	113	-0.01
10	Hexachlorobutadiene	0.277	0.291	-5.1	111	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.593	0.3	110	-0.01
12	2-Methylnaphthalene	0.749	0.750	-0.1	110	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	110	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.184	-1.1	108	0.00
15 S	2-Fluorobiphenyl	2.327	2.416	-3.8	111	0.00
16	Acenaphthylene	1.888	1.966	-4.1	111	0.00
17	Acenaphthene	1.236	1.276	-3.2	109	-0.01
18	Fluorene	1.672	1.785	-6.8	111	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.073	15.1	103	0.00
21	4-Bromophenyl-phenylether	0.251	0.275	-9.6	109	0.00
22	Hexachlorobenzene	0.303	0.338	-11.6	110	0.00
23	Atrazine	0.201	0.209	-4.0	107	0.00
24	Pentachlorophenol	0.138	0.145	-5.1	116	-0.01
25	Phenanthrene	1.200	1.322	-10.2	111	0.00
26	Anthracene	1.083	1.170	-8.0	111	-0.01
27 SURR	Fluoranthene-d10	1.025	1.108	-8.1	108	0.00
28	Fluoranthene	1.348	1.494	-10.8	112	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	114	0.00
30	Pyrene	1.956	2.095	-7.1	112	0.00
31 S	Terphenyl-d14	0.958	0.974	-1.7	108	0.00
32	Benzo(a)anthracene	1.391	1.423	-2.3	113	0.00
33	Chrysene	1.520	1.672	-10.0	119	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.077	-8.8	118	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.543	-6.9	112	-0.01
37	Benzo(b)fluoranthene	1.456	1.617	-11.1	118	0.00
38	Benzo(k)fluoranthene	1.527	1.681	-10.1	117	0.00
39 C	Benzo(a)pyrene	1.226	1.352	-10.3	117	0.00
40	Dibenzo(a,h)anthracene	1.124	1.154	-2.7	112	-0.01
41	Benzo(g,h,i)perylene	1.286	1.382	-7.5	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036601.D
Acq On : 14 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 10:56:35 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	109	0.00
2	1,4-Dioxane	0.400	0.474	-18.5	115	0.00
3	n-Nitrosodimethylamine	0.400	0.444	-11.0	116	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	102	0.00
5 S	Phenol-d6	0.400	0.392	2.0	109	0.00
6	bis(2-Chloroethyl)ether	0.400	0.409	-2.2	112	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	112	0.00
8 S	Nitrobenzene-d5	0.400	0.389	2.8	115	-0.01
9	Naphthalene	0.400	0.411	-2.7	113	-0.01
10	Hexachlorobutadiene	0.400	0.420	-5.0	111	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	110	-0.01
12	2-Methylnaphthalene	0.400	0.401	-0.3	110	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	110	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.405	-1.3	108	0.00
15 S	2-Fluorobiphenyl	0.400	0.415	-3.7	111	0.00
16	Acenaphthylene	0.400	0.417	-4.2	111	0.00
17	Acenaphthene	0.400	0.413	-3.2	109	-0.01
18	Fluorene	0.400	0.427	-6.7	111	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.431	-7.7	103	0.00
21	4-Bromophenyl-phenylether	0.400	0.439	-9.7	109	0.00
22	Hexachlorobenzene	0.400	0.446	-11.5	110	0.00
23	Atrazine	0.400	0.416	-4.0	107	0.00
24	Pentachlorophenol	0.400	0.421	-5.2	116	-0.01
25	Phenanthrene	0.400	0.441	-10.2	111	0.00
26	Anthracene	0.400	0.432	-8.0	111	-0.01
27 SURR	Fluoranthene-d10	0.400	0.432	-8.0	108	0.00
28	Fluoranthene	0.400	0.443	-10.7	112	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	114	0.00
30	Pyrene	0.400	0.428	-7.0	112	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	108	0.00
32	Benzo(a)anthracene	0.400	0.409	-2.2	113	0.00
33	Chrysene	0.400	0.440	-10.0	119	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.435	-8.7	118	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.427	-6.7	112	-0.01
37	Benzo(b)fluoranthene	0.400	0.444	-11.0	118	0.00
38	Benzo(k)fluoranthene	0.400	0.440	-10.0	117	0.00
39 C	Benzo(a)pyrene	0.400	0.441	-10.2	117	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	112	-0.01
41	Benzo(g,h,i)perylene	0.400	0.430	-7.5	113	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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/14/2025 20:30

Lab File ID: BN036615.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	0.605		1.7	20.0
Fluoranthene-d10	1.025	1.072		4.6	20.0
2-Fluorophenol	0.932	0.927		-0.5	20.0
Phenol-d6	1.152	1.120		-2.8	20.0
Nitrobenzene-d5	0.435	0.416		-4.4	20.0
Naphthalene	1.177	1.200		2.0	20.0
2-Fluorobiphenyl	2.327	2.425		4.2	20.0
Acenaphthylene	1.888	2.005		6.2	20.0
Acenaphthene	1.236	1.299		5.1	20.0
Fluorene	1.672	1.789		7.0	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Phenanthrene	1.200	1.267		5.6	20.0
Anthracene	1.083	1.108		2.3	20.0
Fluoranthene	1.348	1.463		8.5	20.0
Pyrene	1.956	2.096		7.2	20.0
Terphenyl-d14	0.958	0.981		2.4	20.0
Benzo(a)anthracene	1.391	1.413		1.6	20.0
Chrysene	1.520	1.697		11.6	20.0
Benzo(b)fluoranthene	1.456	1.667		14.5	20.0
Benzo(k)fluoranthene	1.527	1.698		11.2	20.0
Benzo(a)pyrene	1.226	1.397		13.9	20.0
Indeno(1,2,3-cd)pyrene	1.444	1.508		4.4	20.0
Dibenzo(a,h)anthracene	1.124	1.164		3.6	20.0
Benzo(g,h,i)perylene	1.286	1.370		6.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036615.D
 Acq On : 14 Mar 2025 20:30
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 14 23:41:12 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

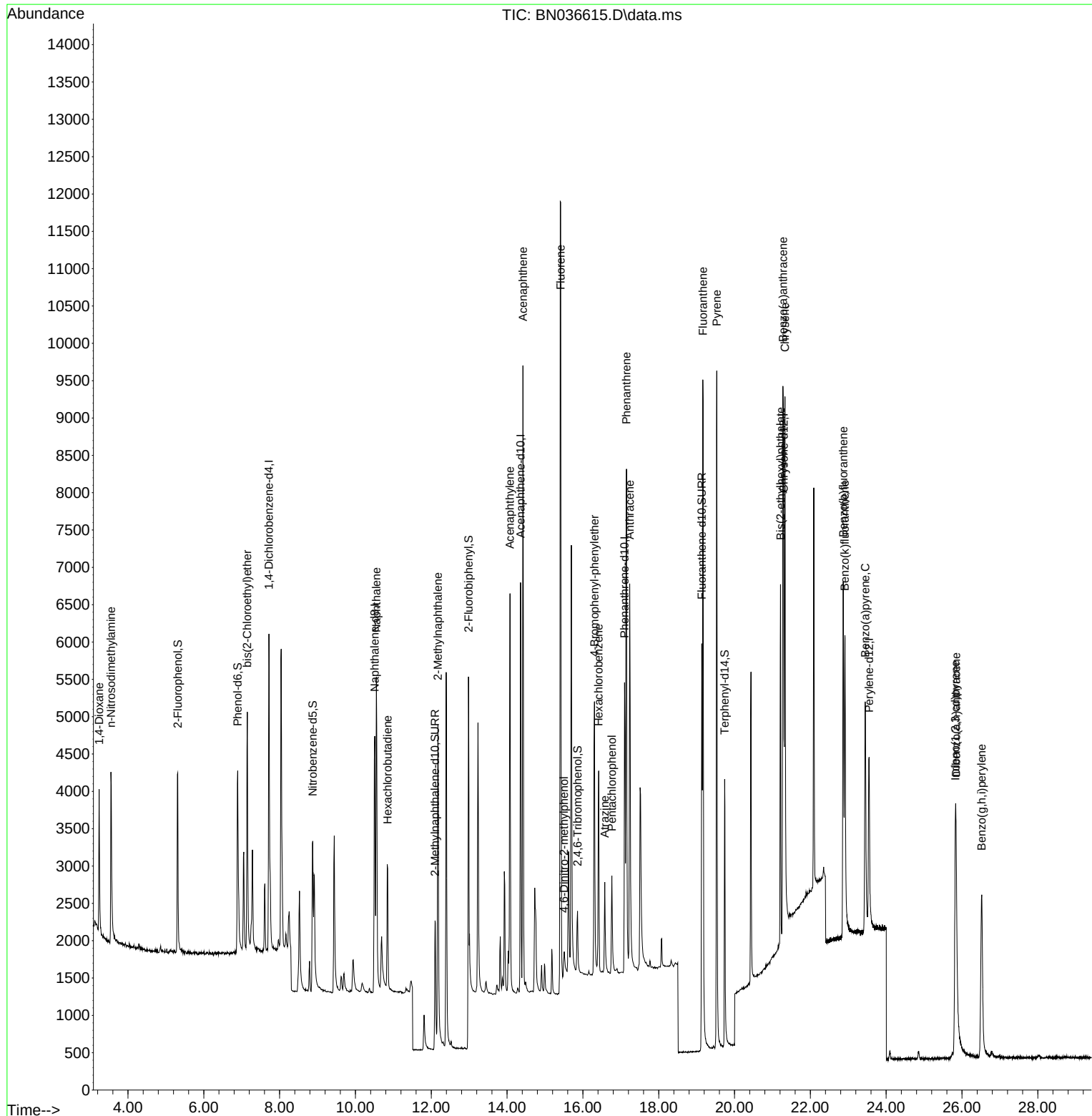
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2093	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5069	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	2917	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6068	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	4261	0.400	ng	# 0.00
35) Perylene-d12	23.548	264	3574	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1940	0.398	ng	0.00
5) Phenol-d6	6.894	99	2344	0.389	ng	0.00
8) Nitrobenzene-d5	8.875	82	2108	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	3069	0.407	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	536	0.405	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	7075	0.417	ng	0.00
27) Fluoranthene-d10	19.136	212	6502	0.418	ng	0.00
31) Terphenyl-d14	19.740	244	4181	0.410	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1072	0.462	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.550	42	2018	0.430	ng	99
6) bis(2-Chloroethyl)ether	7.147	93	2373	0.381	ng	94
9) Naphthalene	10.551	128	6081	0.408	ng	100
10) Hexachlorobutadiene	10.850	225	1464	0.417	ng	# 99
12) 2-Methylnaphthalene	12.177	142	3809	0.401	ng	98
16) Acenaphthylene	14.077	152	5849	0.425	ng	99
17) Acenaphthene	14.420	154	3789	0.420	ng	98
18) Fluorene	15.414	166	5219	0.428	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	409	0.410	ng	86
21) 4-Bromophenyl-phenylether	16.304	248	1591	0.418	ng	# 83
22) Hexachlorobenzene	16.416	284	1956	0.426	ng	98
23) Atrazine	16.577	200	1246	0.409	ng	95
24) Pentachlorophenol	16.764	266	782	0.374	ng	99
25) Phenanthrene	17.148	178	7689	0.422	ng	100
26) Anthracene	17.235	178	6726	0.409	ng	99
28) Fluoranthene	19.164	202	8879	0.434	ng	100
30) Pyrene	19.531	202	8929	0.429	ng	99
32) Benzo(a)anthracene	21.277	228	6022	0.406	ng	99
33) Chrysene	21.331	228	7230	0.447	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4732	0.449	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	5391	0.418	ng	97
37) Benzo(b)fluoranthene	22.867	252	5957	0.458	ng	98
38) Benzo(k)fluoranthene	22.911	252	6070	0.445	ng	96
39) Benzo(a)pyrene	23.446	252	4994	0.456	ng	94
40) Dibenzo(a,h)anthracene	25.844	278	4159	0.414	ng	100
41) Benzo(g,h,i)perylene	26.522	276	4897	0.426	ng	99

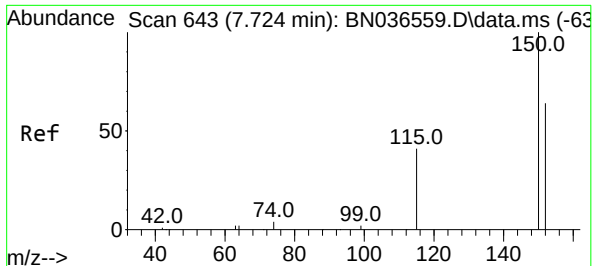
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 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

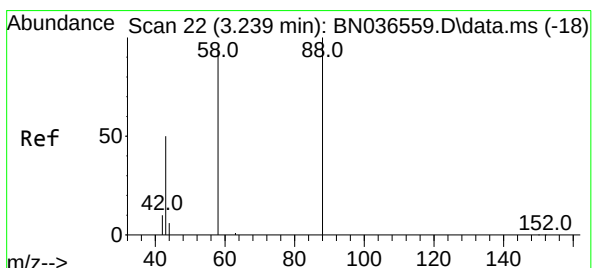
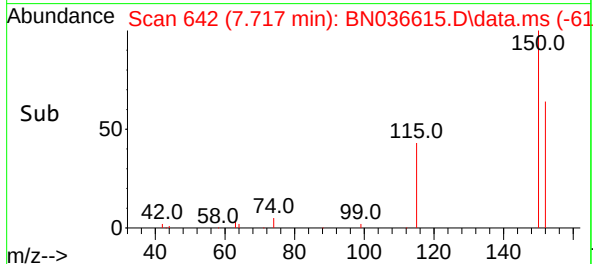
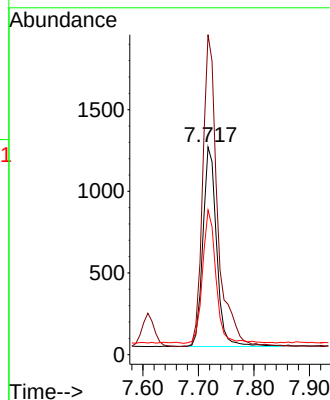
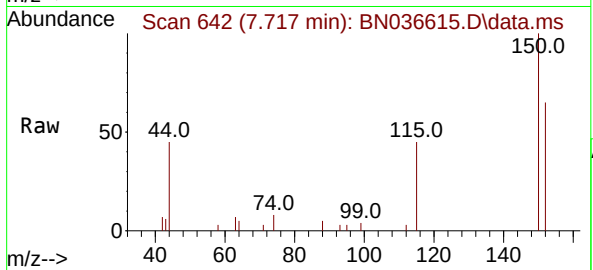




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

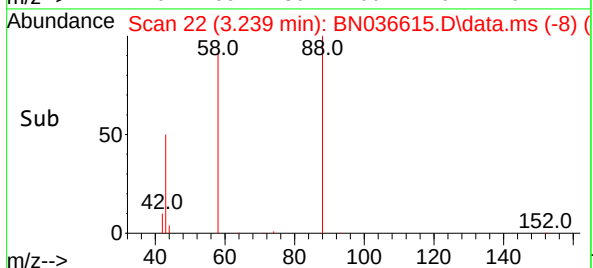
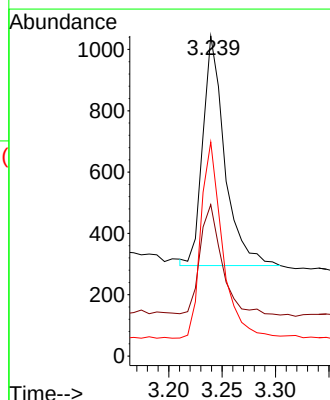
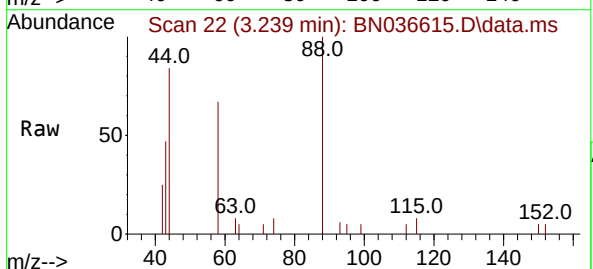
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

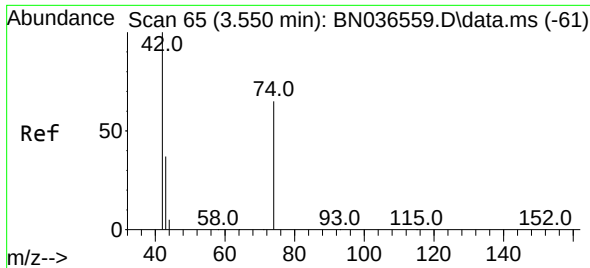
Tgt Ion:152 Resp: 2093
Ion Ratio Lower Upper
152 100
150 154.1 123.7 185.5
115 69.6 54.3 81.5



#2
1,4-Dioxane
Concen: 0.462 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 88 Resp: 1072
Ion Ratio Lower Upper
88 100
43 48.2 37.8 56.8
58 84.6 67.4 101.2

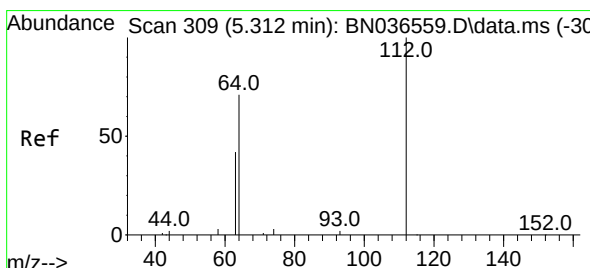
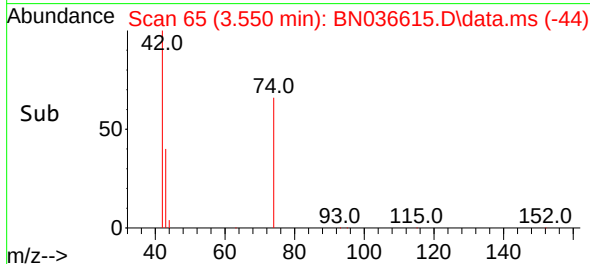
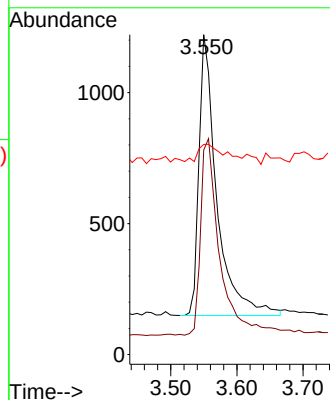
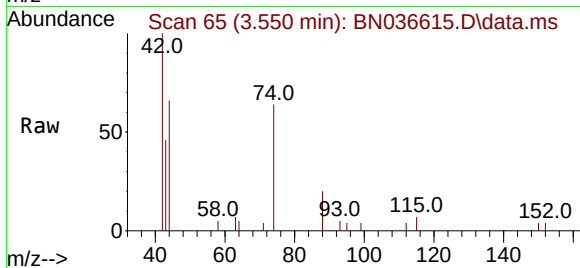




#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

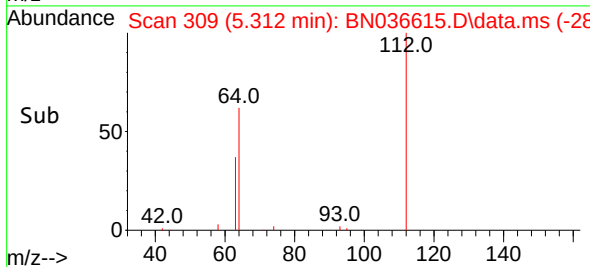
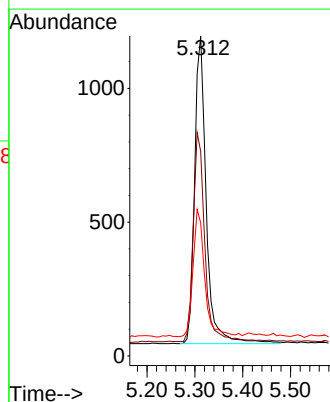
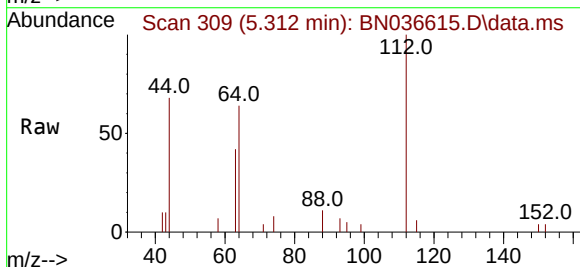
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

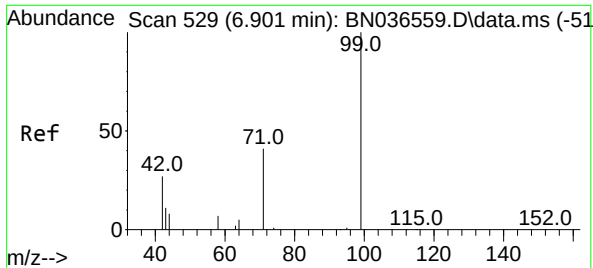
Tgt Ion: 42 Resp: 2018
Ion Ratio Lower Upper
42 100
74 74.8 60.6 90.8
44 8.5 6.3 9.5



#4
2-Fluorophenol
Concen: 0.398 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 112 Resp: 1940
Ion Ratio Lower Upper
112 100
64 67.7 53.1 79.7
63 41.3 31.8 47.8

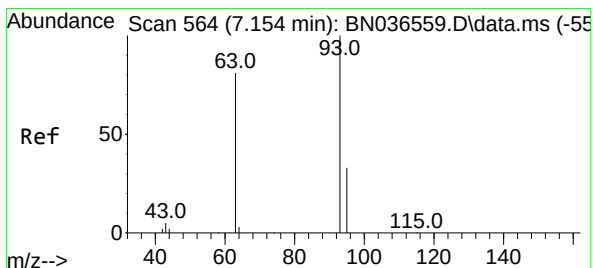
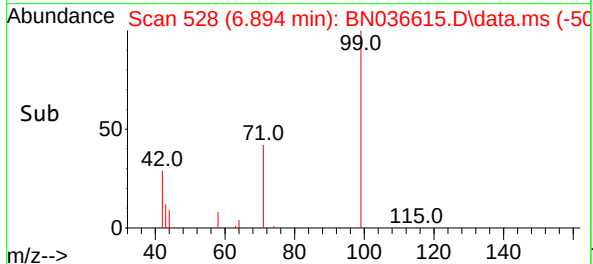
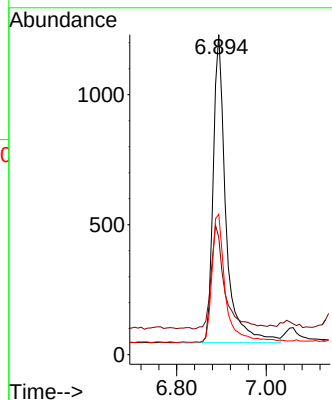
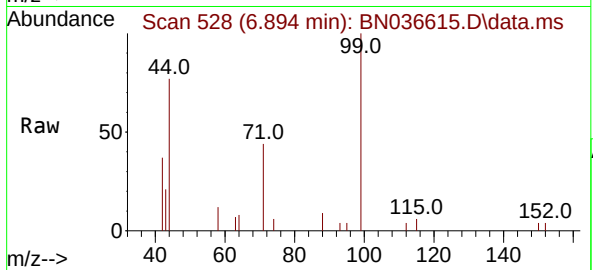




#5
Phenol-d6
Concen: 0.389 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

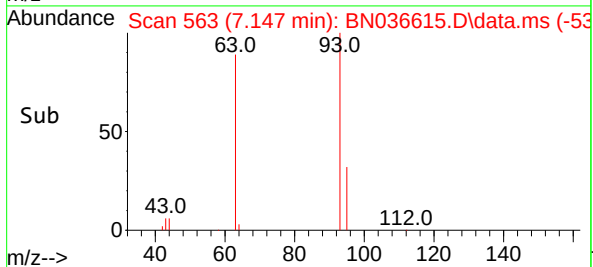
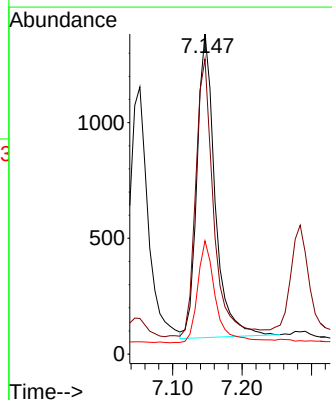
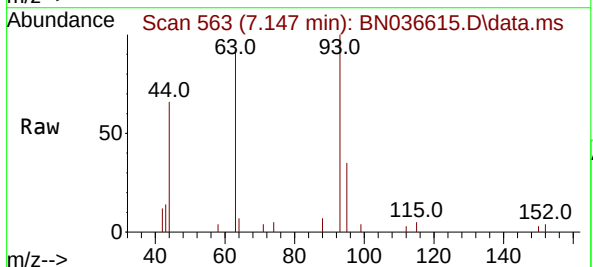
Instrument :
BNA_N
ClientSampleId :
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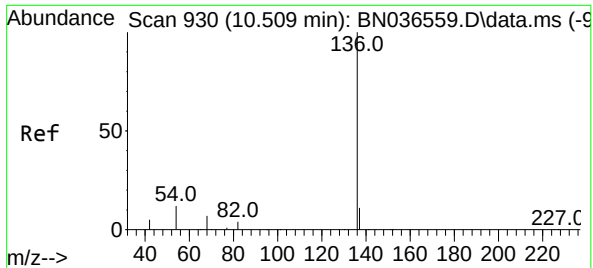
Tgt Ion: 99 Resp: 2344
Ion Ratio Lower Upper
99 100
42 35.9 26.5 39.7
71 44.0 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion: 93 Resp: 2373
Ion Ratio Lower Upper
93 100
63 91.2 67.7 101.5
95 33.8 25.6 38.4

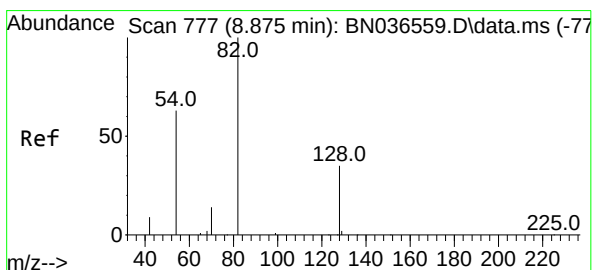
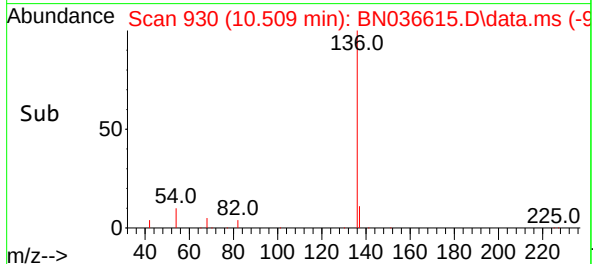
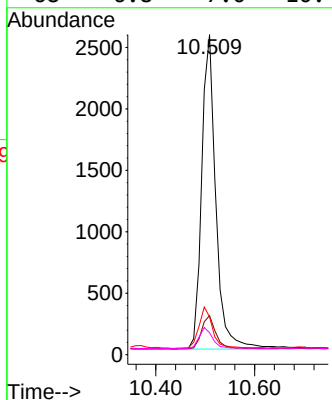
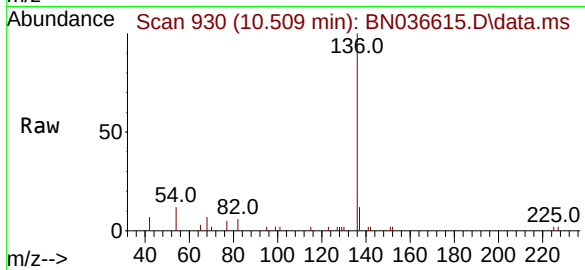




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

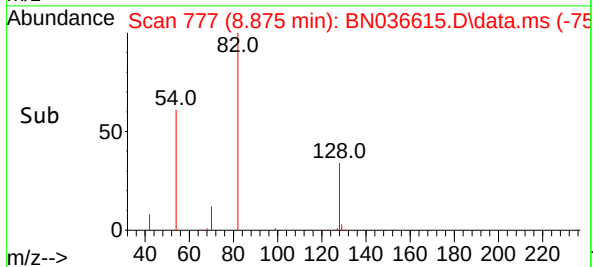
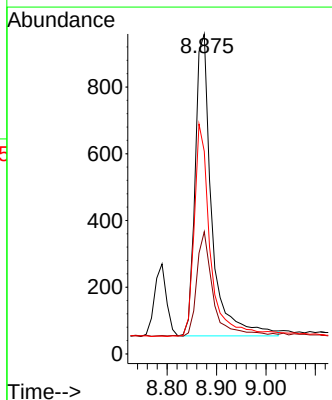
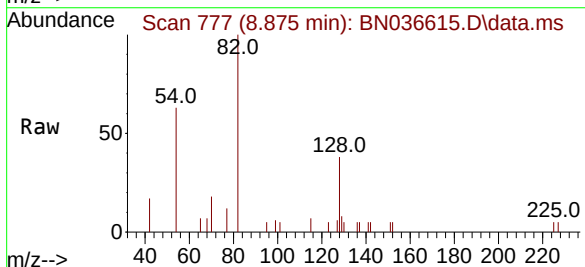
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BNA_N
ClientSampleId :
SSTDCCC0.4

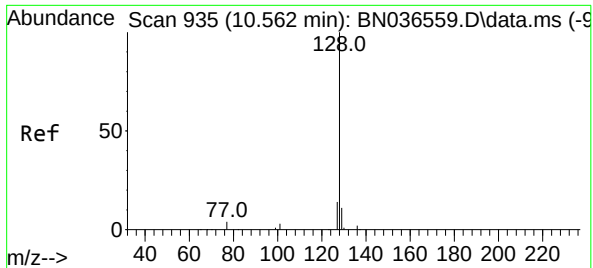
Tgt Ion:	136	Resp:	5069
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	11.8	11.5	17.3
68	6.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:	82	Resp:	2108
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	63.3	52.2	78.4

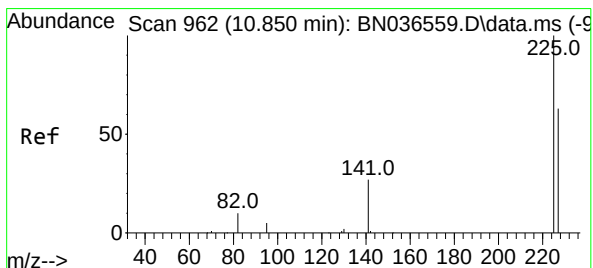
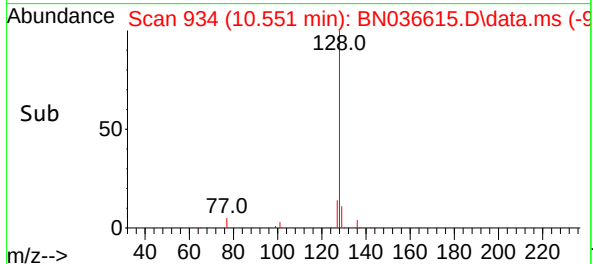
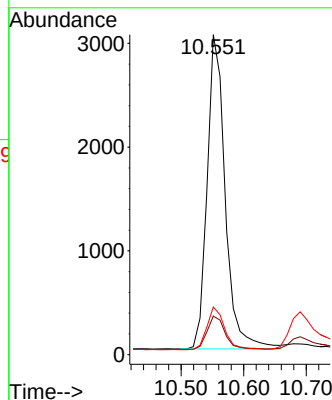
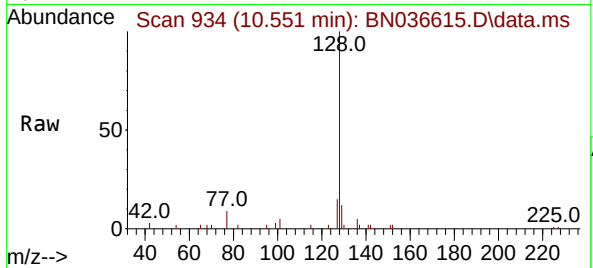




#9
Naphthalene
Concen: 0.408 ng
RT: 10.551 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

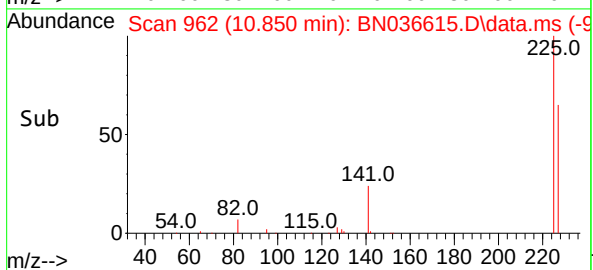
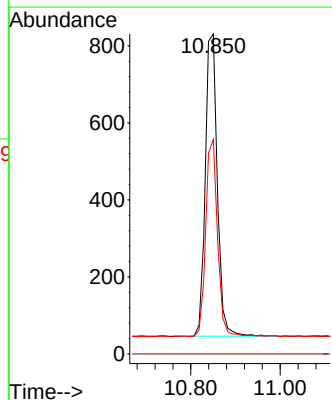
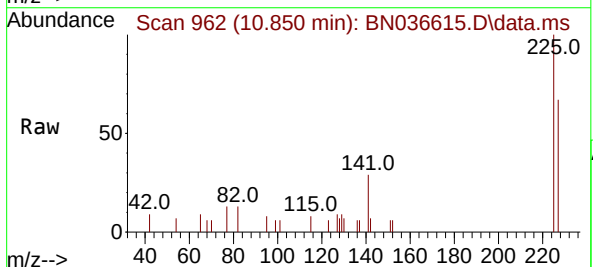
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BNA_N
ClientSampleId :
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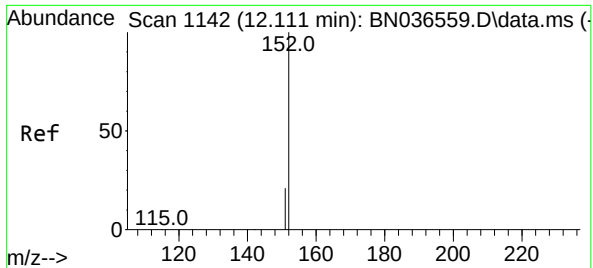
Tgt Ion:	128	Resp:	6081
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.9	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:	225	Resp:	1464
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8

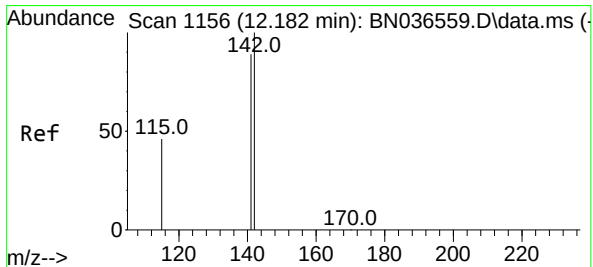
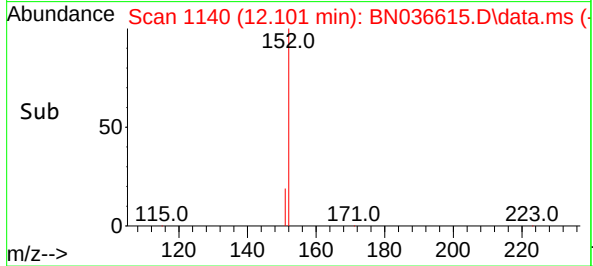
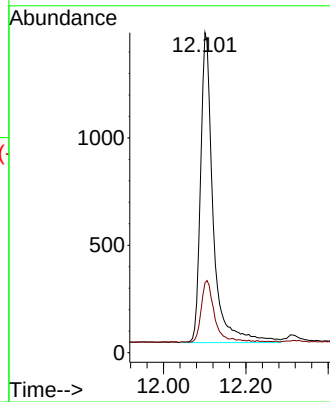
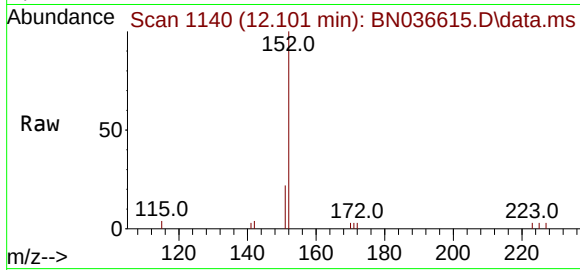




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

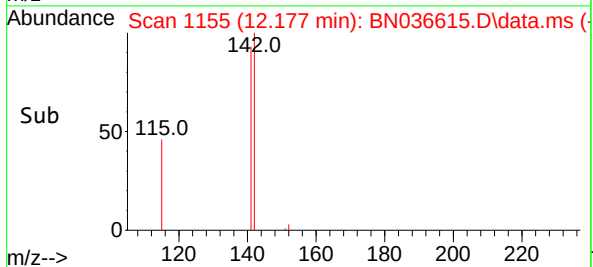
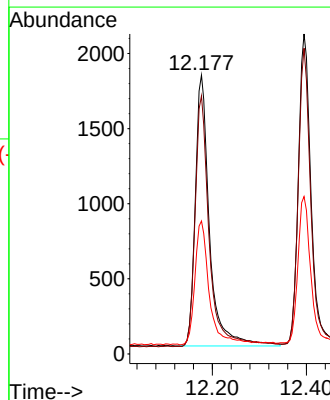
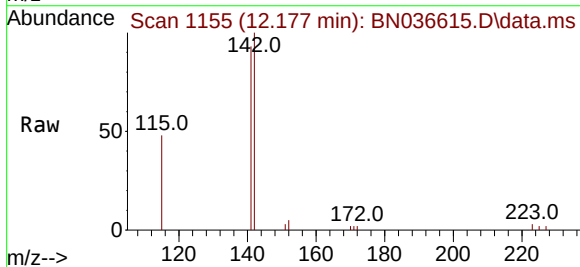
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

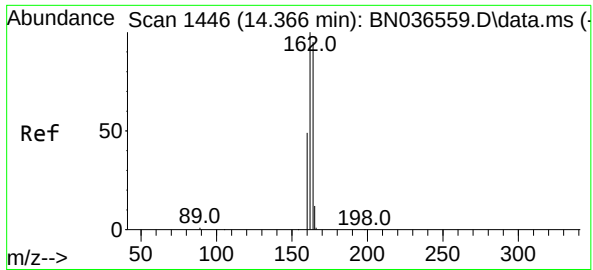
Tgt Ion:152 Resp: 3069
Ion Ratio Lower Upper
152 100
151 20.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:142 Resp: 3809
Ion Ratio Lower Upper
142 100
141 92.6 71.7 107.5
115 47.7 38.3 57.5

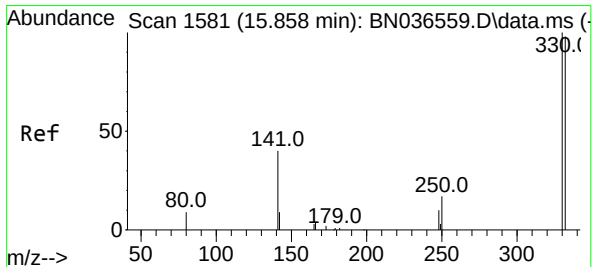
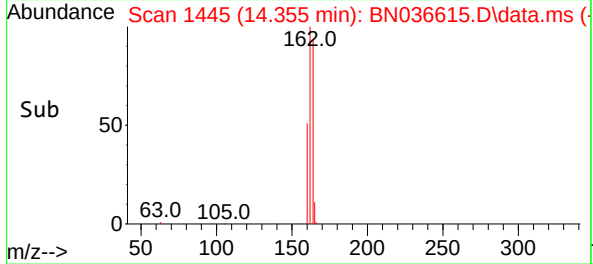
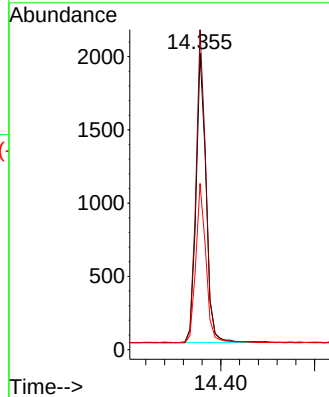
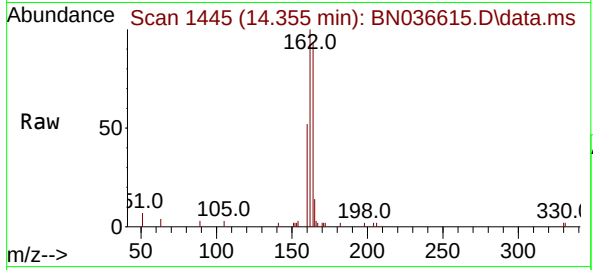




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

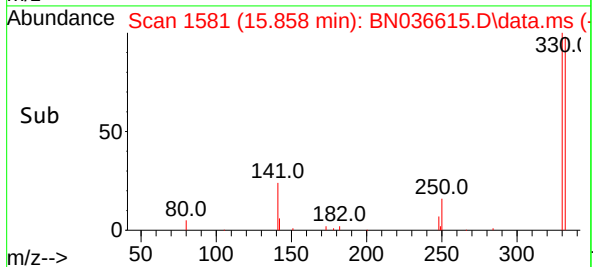
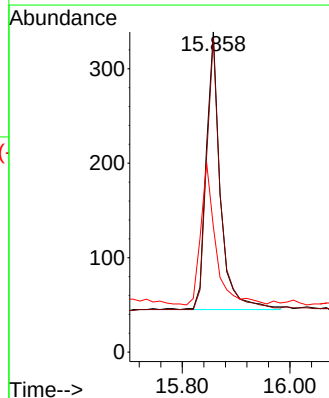
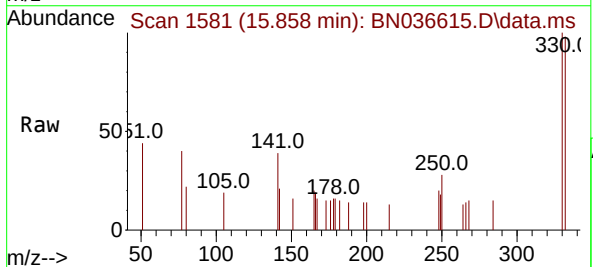
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

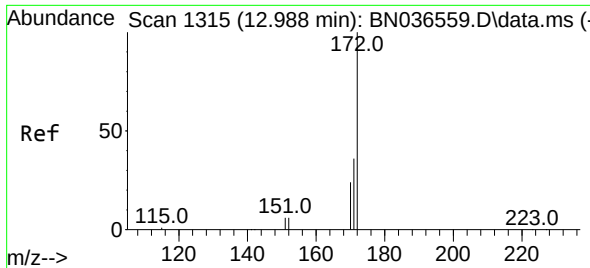
Tgt Ion:164 Resp: 2917
Ion Ratio Lower Upper
164 100
162 107.9 84.2 126.2
160 56.0 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:330 Resp: 536
Ion Ratio Lower Upper
330 100
332 96.6 75.2 112.8
141 52.2 43.4 65.2

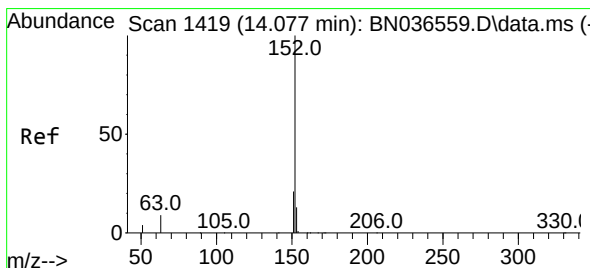
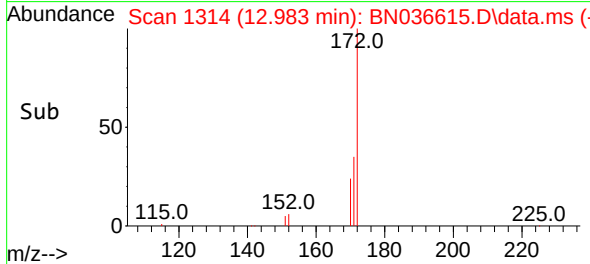
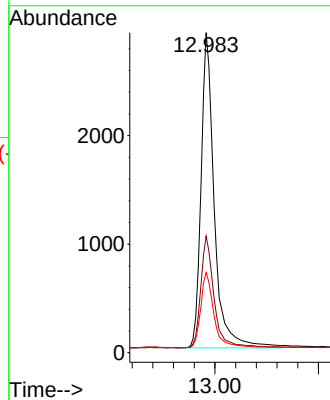
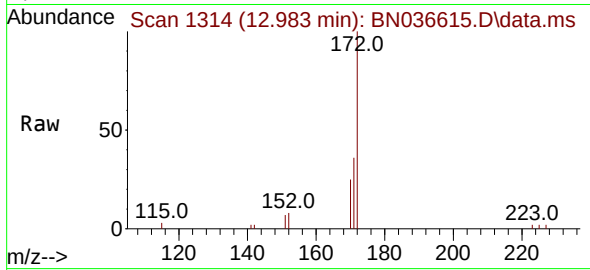




#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

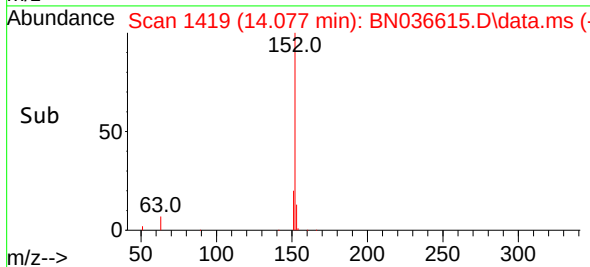
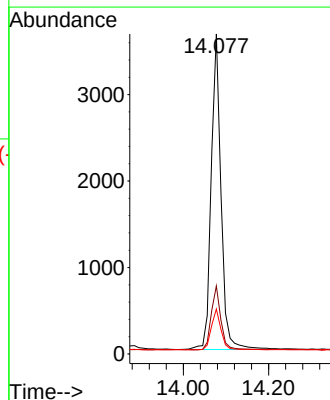
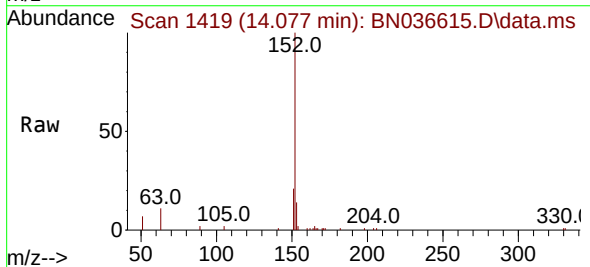
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

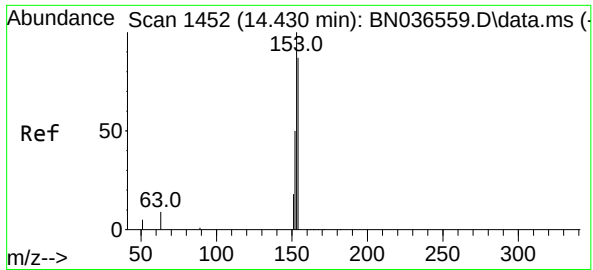
Tgt Ion:	172	Resp:	7075
Ion Ratio	Lower	Upper	
172	100		
171	36.5	29.5	44.3
170	25.1	20.2	30.4



#16
Acenaphthylene
Concen: 0.425 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:	152	Resp:	5849
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.2	24.4
153	12.7	10.6	15.8

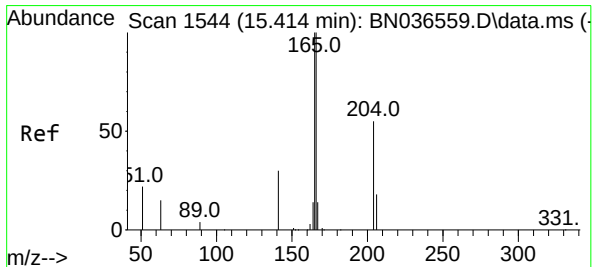
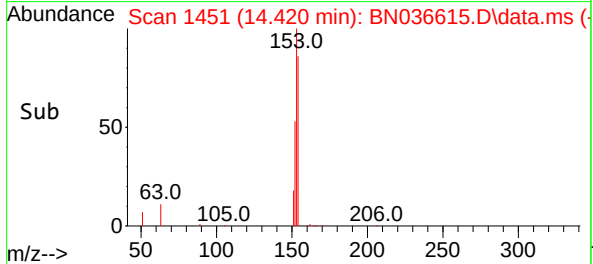
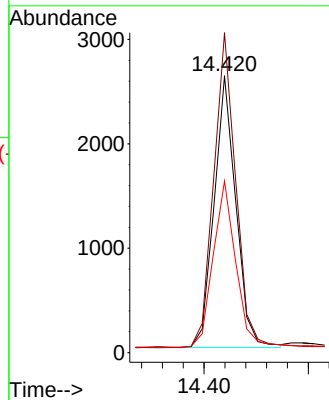
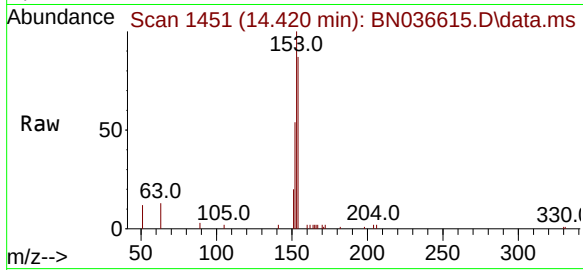




#17
Acenaphthene
Concen: 0.420 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

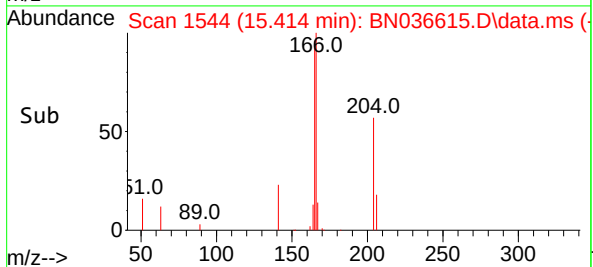
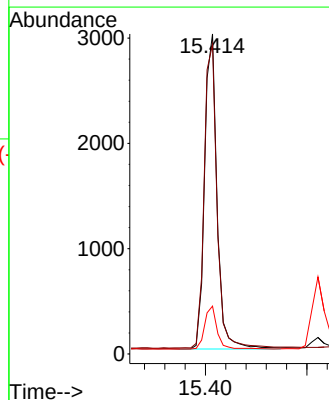
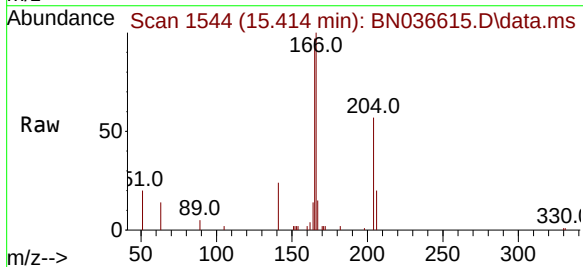
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

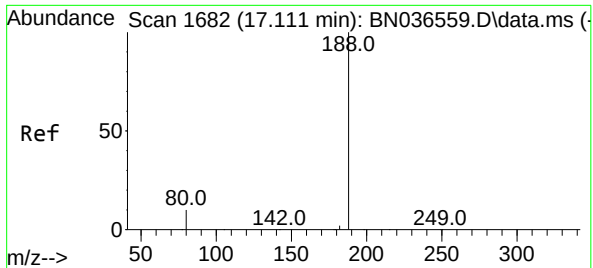
Tgt Ion:154 Resp: 3789
Ion Ratio Lower Upper
154 100
153 118.4 94.1 141.1
152 64.4 49.8 74.6



#18
Fluorene
Concen: 0.428 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:166 Resp: 5219
Ion Ratio Lower Upper
166 100
165 99.0 79.8 119.8
167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

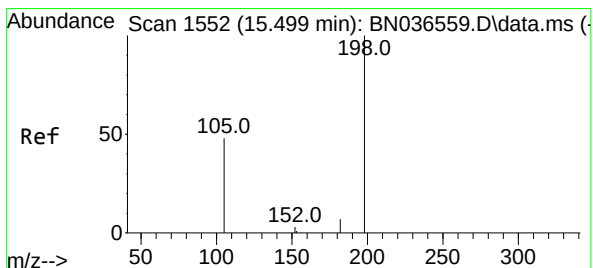
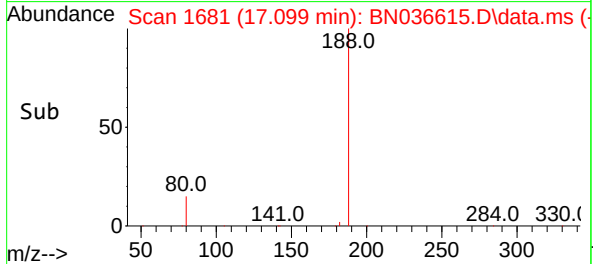
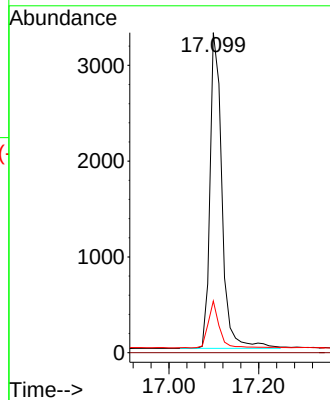
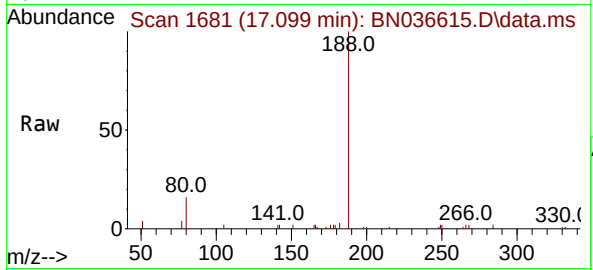
Tgt Ion:188 Resp: 6068

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.1 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.410 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

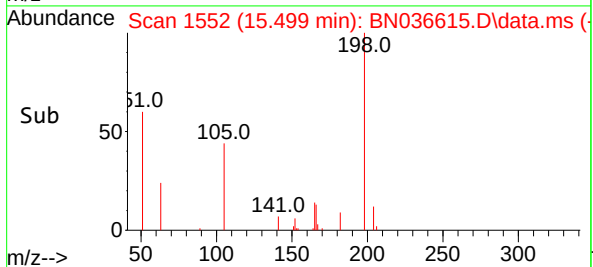
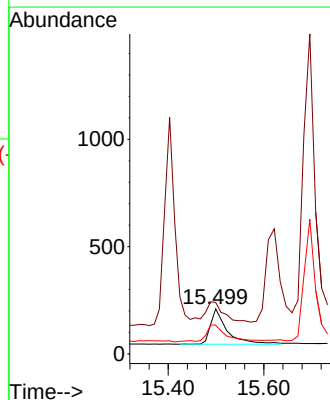
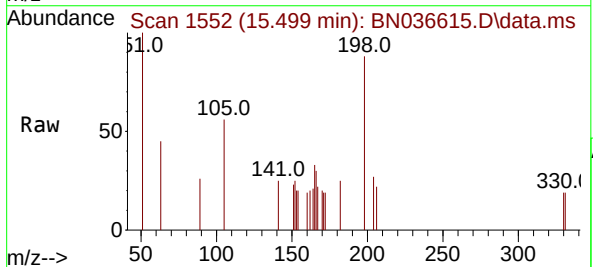
Tgt Ion:198 Resp: 409

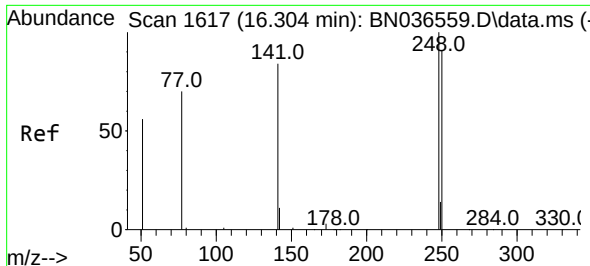
Ion Ratio Lower Upper

198 100

51 114.3 107.9 161.9

105 63.8 56.2 84.2

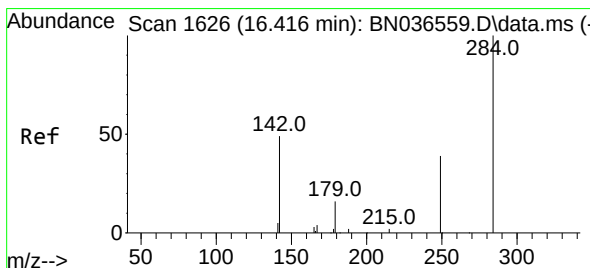
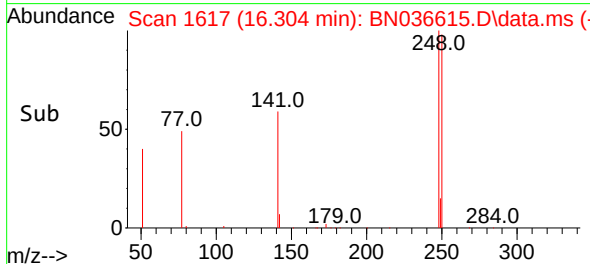
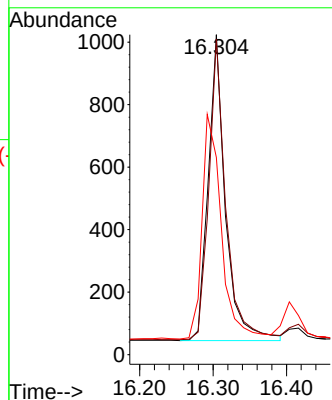
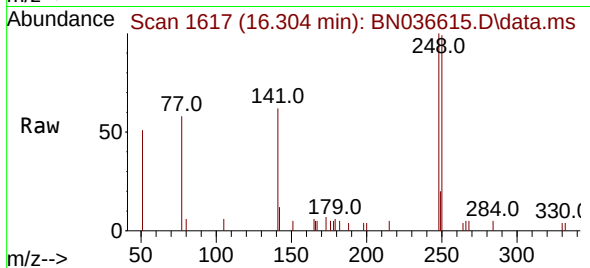




#21
4-Bromophenyl-phenylether
Concen: 0.418 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

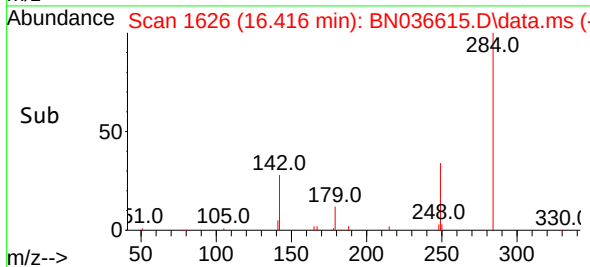
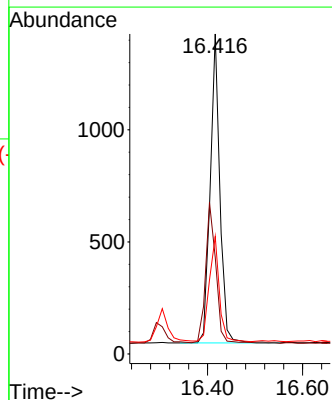
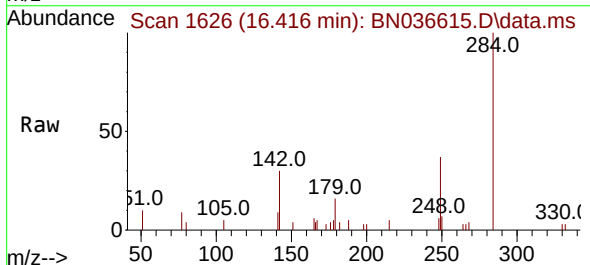
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

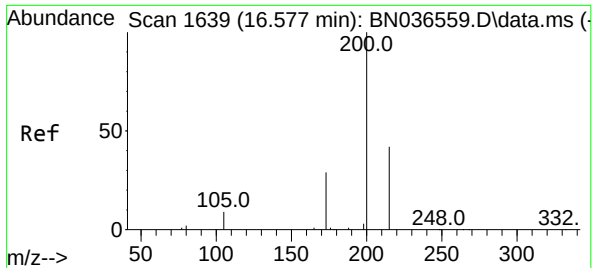
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	61.6	68.6	103.0#



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
284	100		
142	48.3	37.0	55.4
249	35.6	28.1	42.1

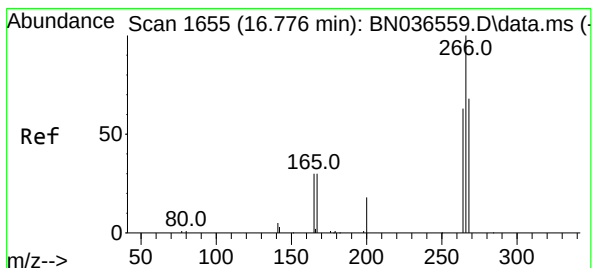
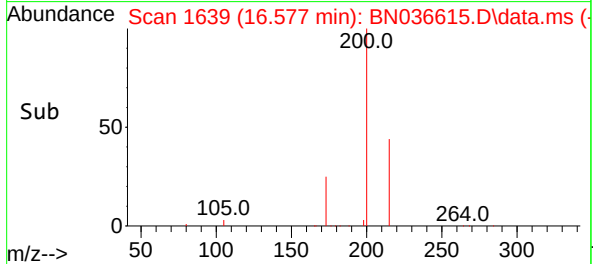
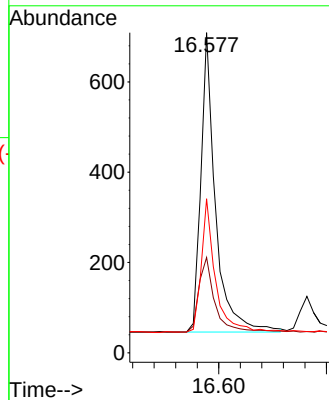
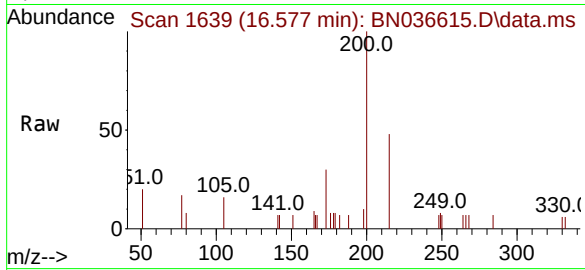




#23
Atrazine
Concen: 0.409 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

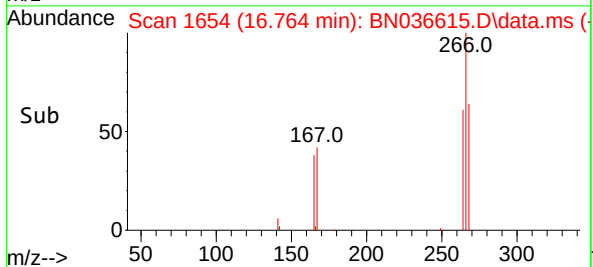
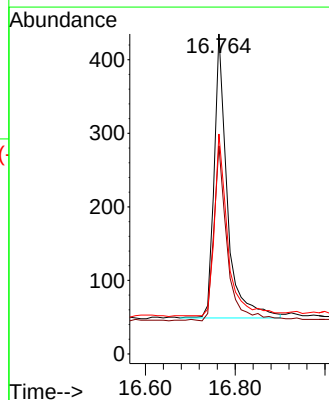
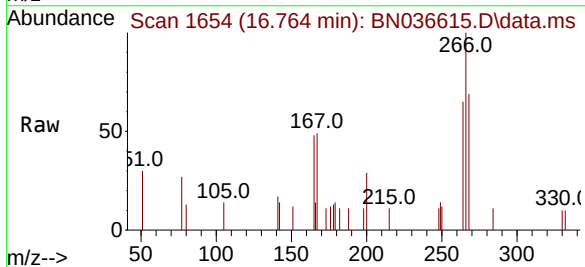
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

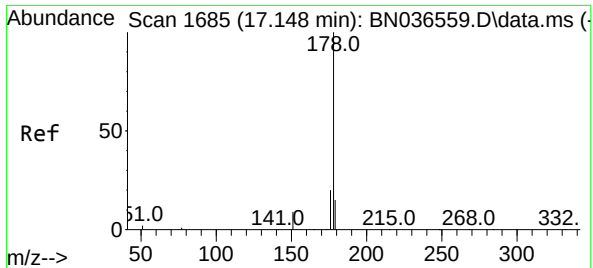
Tgt Ion:	200	Resp:	1246
Ion Ratio	Lower	Upper	
200	100		
173	29.8	27.3	40.9
215	48.1	36.8	55.2



#24
Pentachlorophenol
Concen: 0.374 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:	266	Resp:	782
Ion Ratio	Lower	Upper	
266	100		
264	63.2	49.6	74.4
268	64.5	50.9	76.3

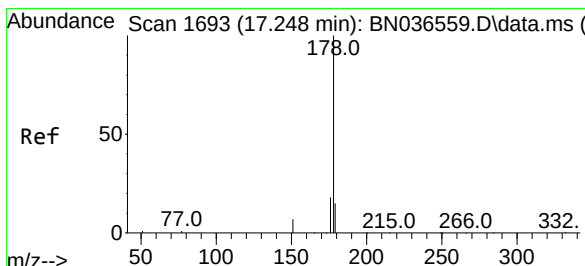
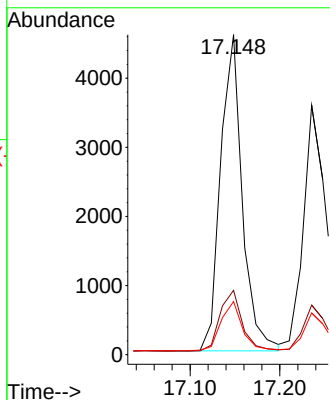
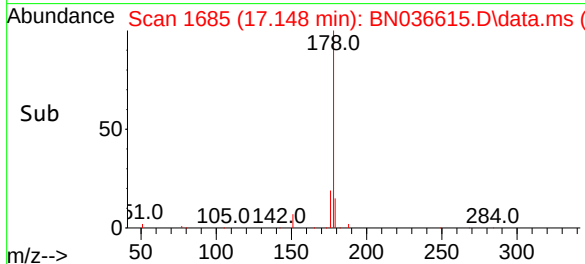
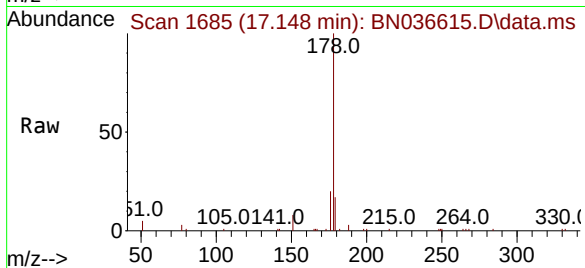




#25
Phenanthrene
Concen: 0.422 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

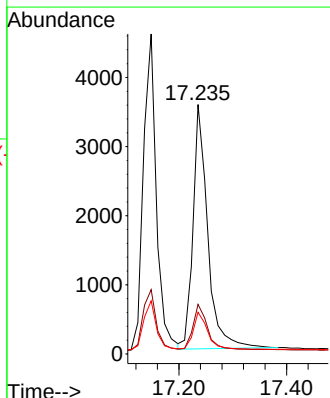
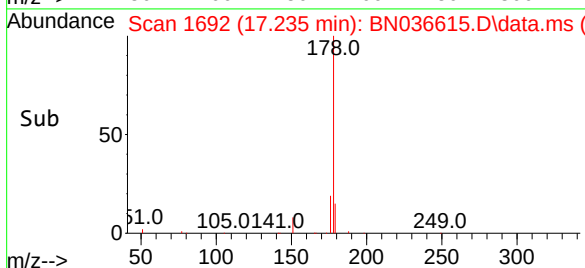
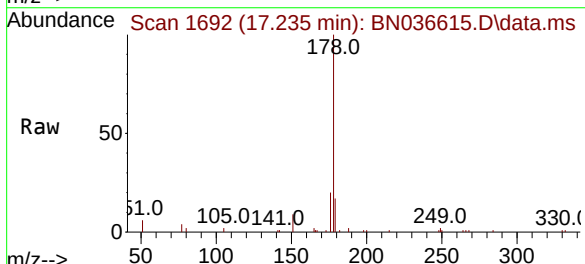
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

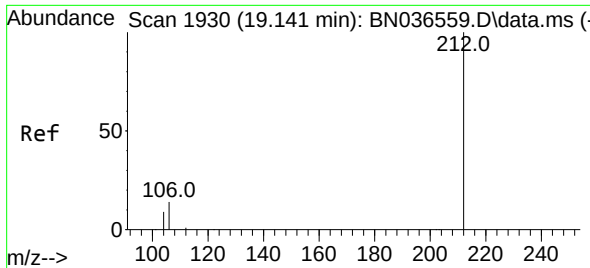
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.4	12.2	18.4



#26
Anthracene
Concen: 0.409 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.2	12.6	18.8

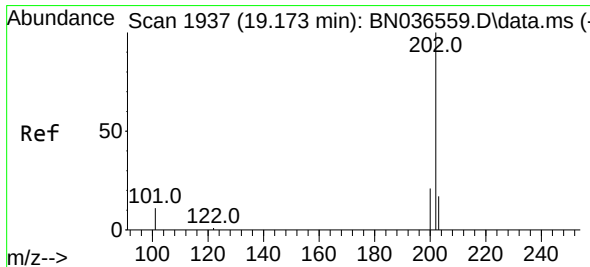
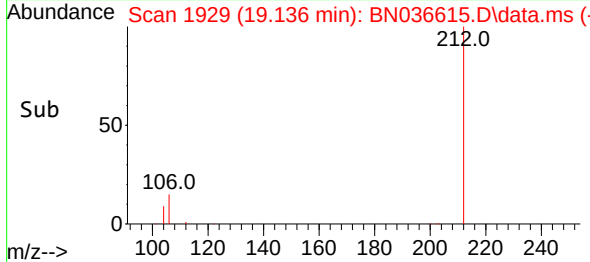
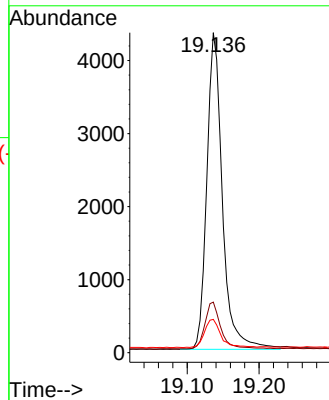
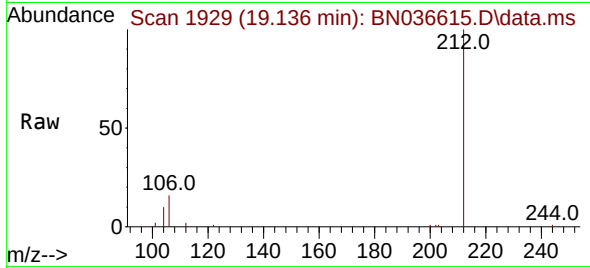




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

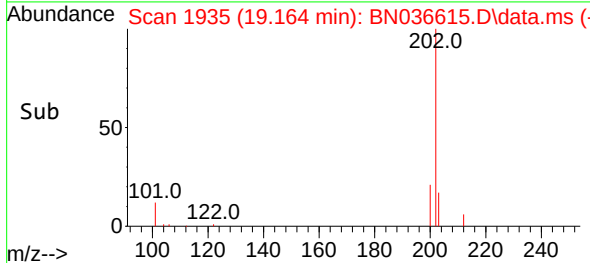
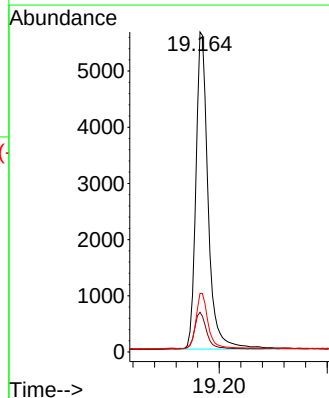
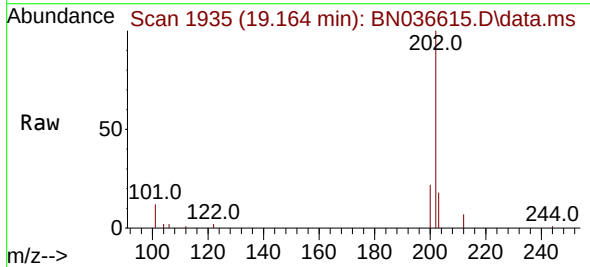
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

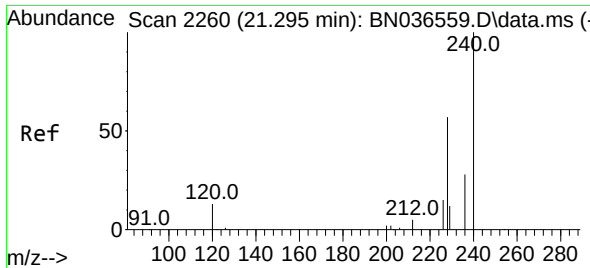
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.4	7.3	10.9



#28
Fluoranthene
Concen: 0.434 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.4	14.0
203	17.2	13.5	20.3

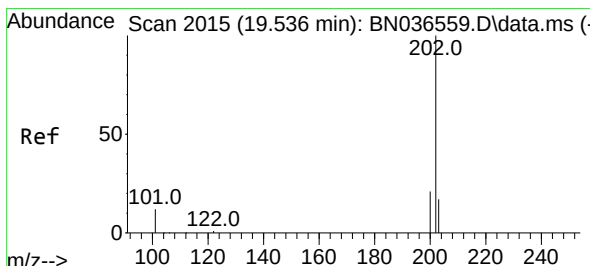
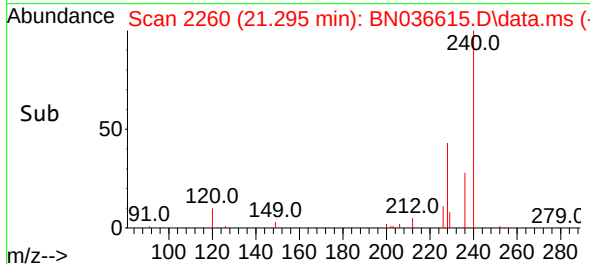
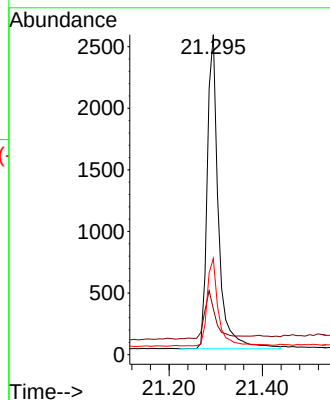
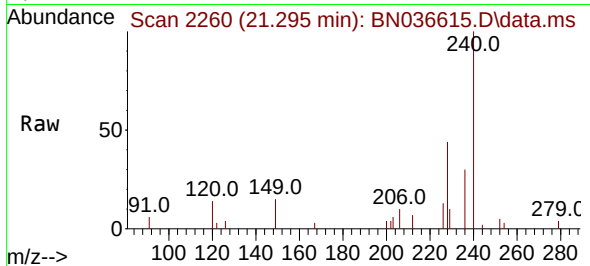




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

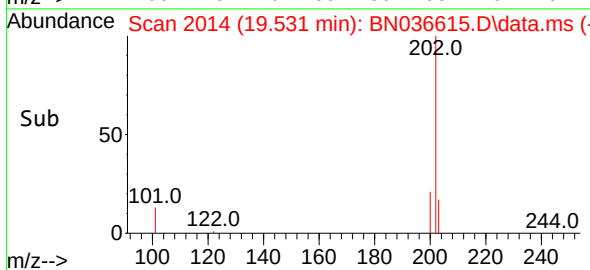
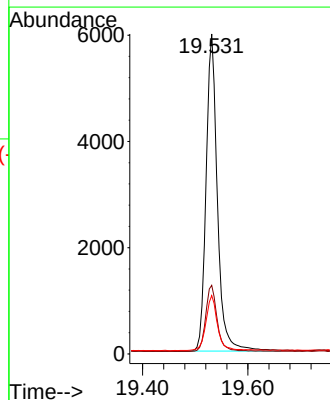
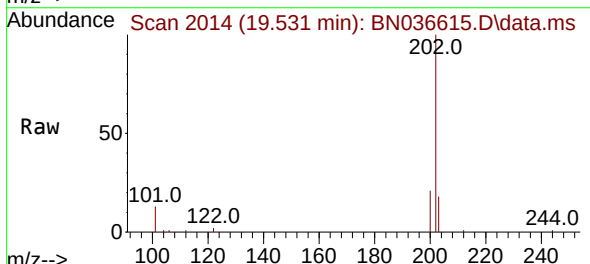
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

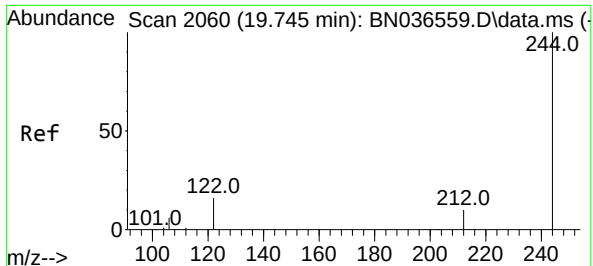
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.3	14.6	22.0#
236	30.1	24.1	36.1



#30
Pyrene
Concen: 0.429 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	18.0	14.1	21.1

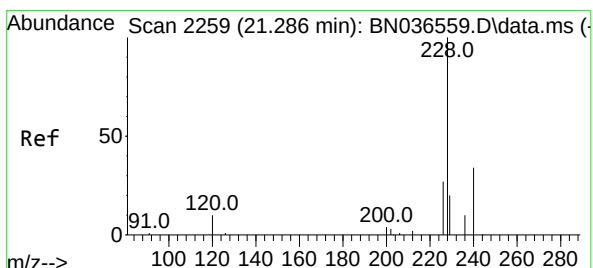
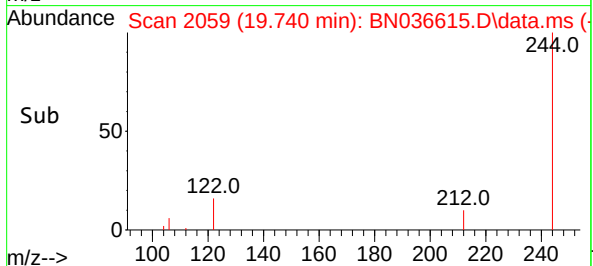
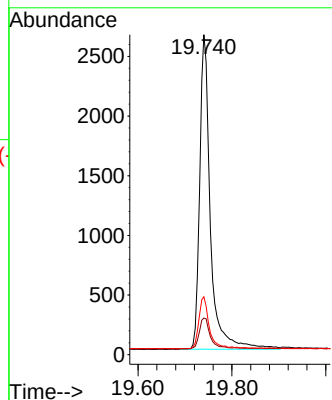
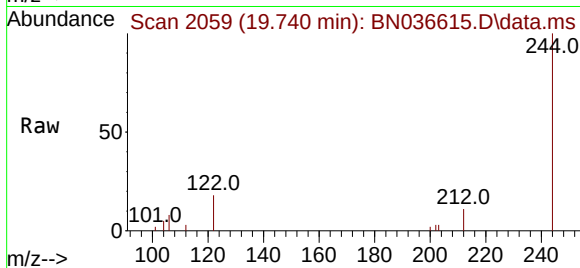




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

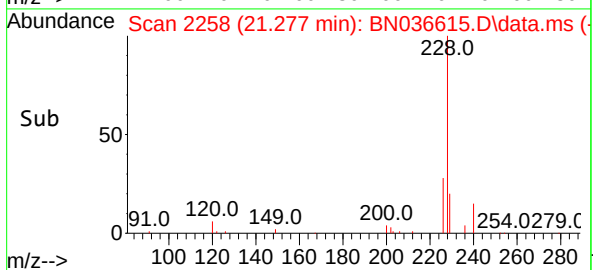
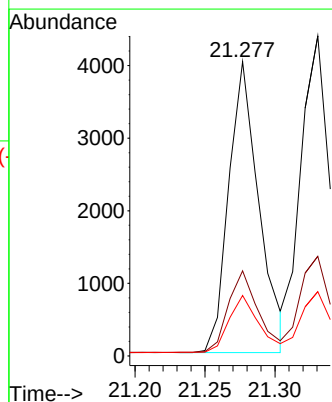
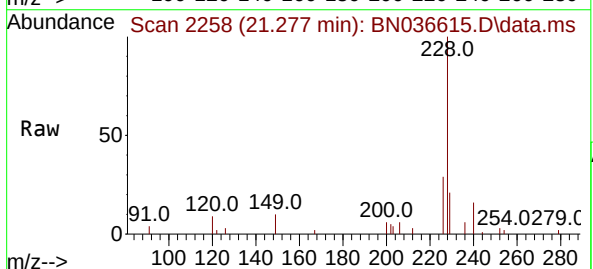
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

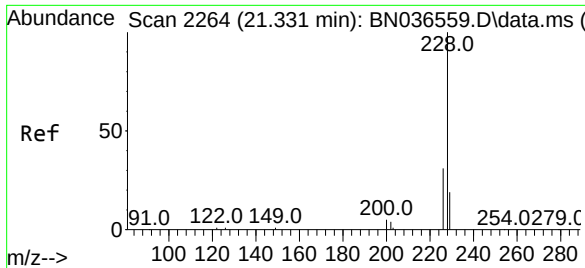
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.6	14.4
122	18.1	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.406 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.5	16.6	25.0





#33

Chrysene

Concen: 0.447 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

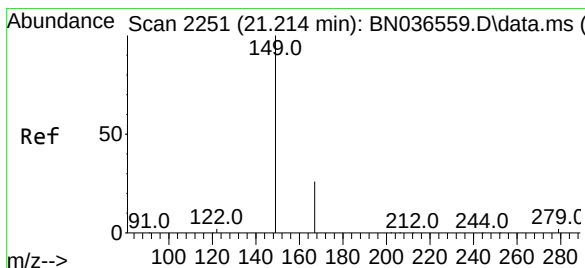
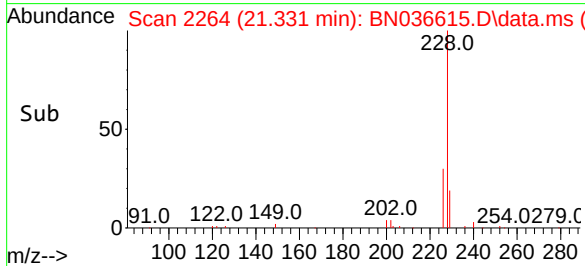
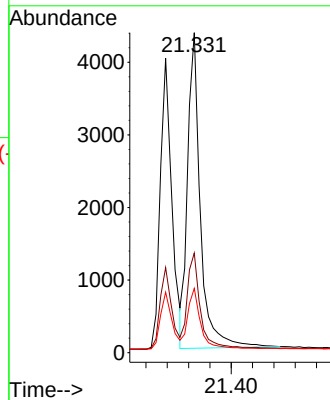
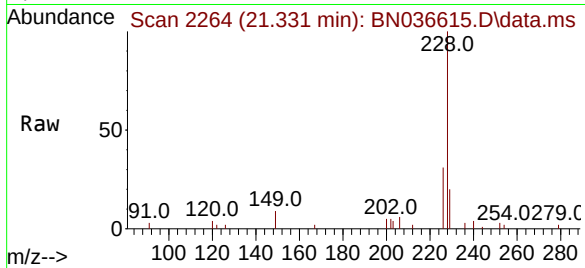
Tgt Ion:228 Resp: 7230

Ion Ratio Lower Upper

228 100

226 31.2 25.3 37.9

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.449 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

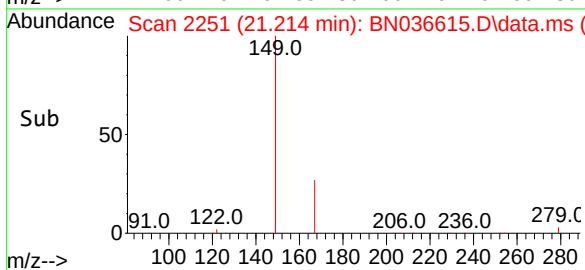
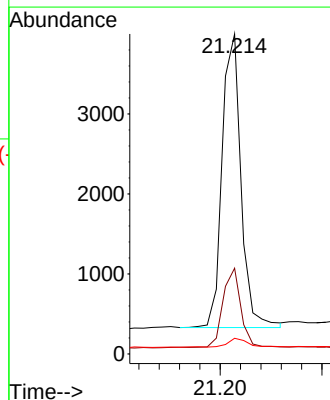
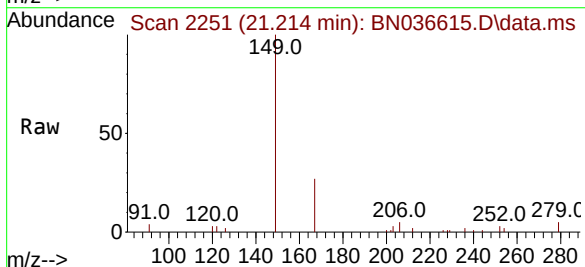
Tgt Ion:149 Resp: 4732

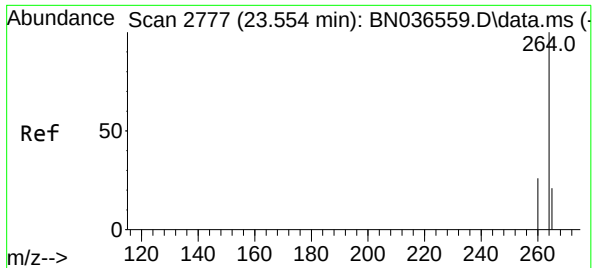
Ion Ratio Lower Upper

149 100

167 25.4 20.7 31.1

279 3.4 3.6 5.4#

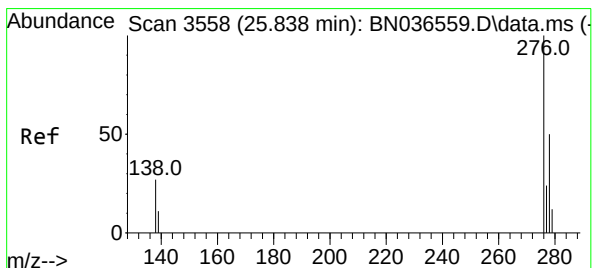
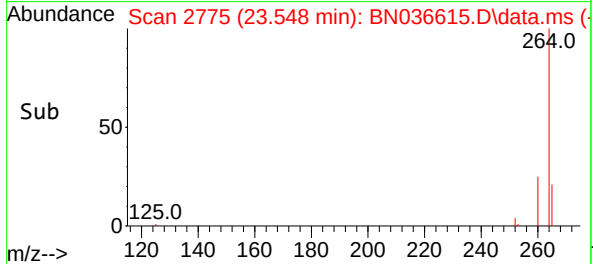
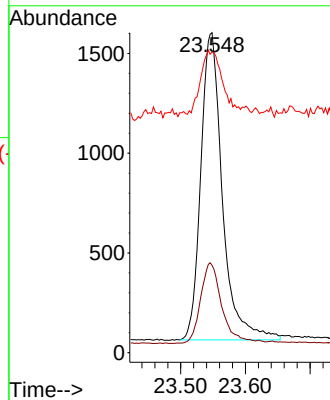
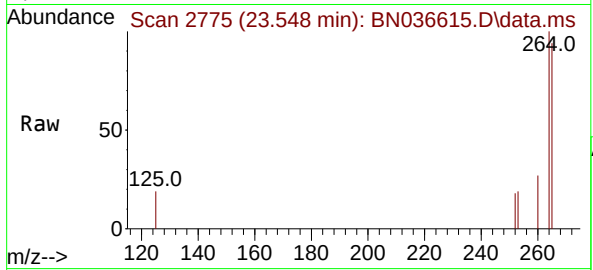




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

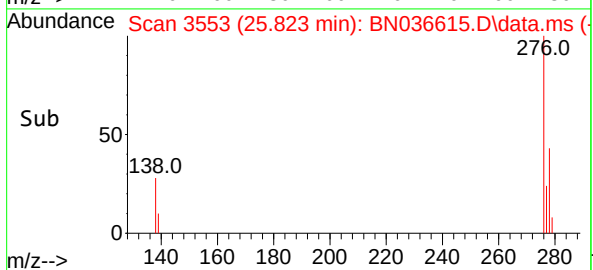
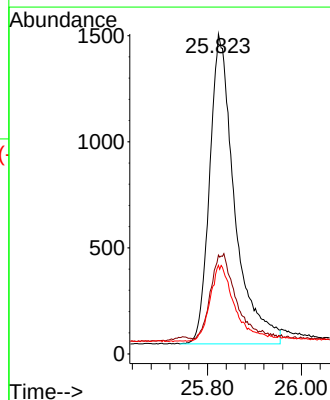
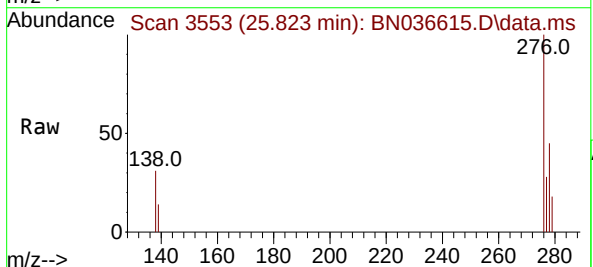
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

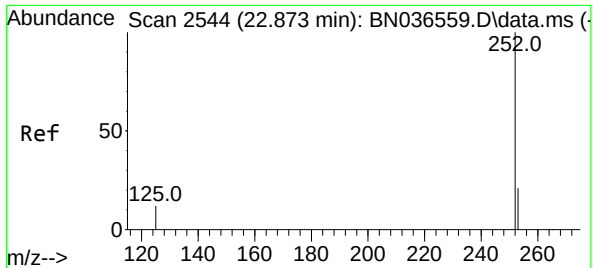
Tgt Ion:	264	Resp:	3574
Ion Ratio	Lower	Upper	
264	100		
260	27.3	22.6	33.8
265	94.0	88.1	132.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.418 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.015 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:	276	Resp:	5391
Ion Ratio	Lower	Upper	
276	100		
138	26.8	23.4	35.2
277	24.3	20.0	30.0

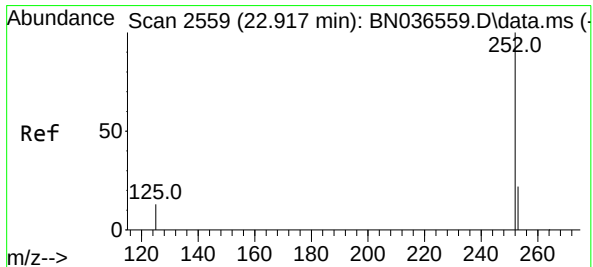
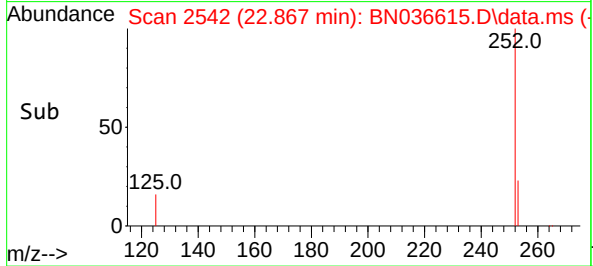
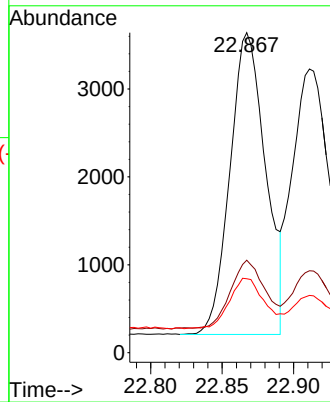
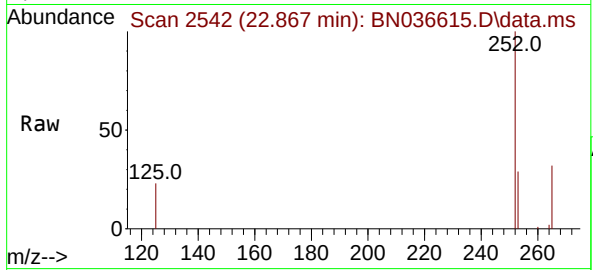




#37
Benzo(b)fluoranthene
Concen: 0.458 ng
RT: 22.867 min Scan# 2542
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

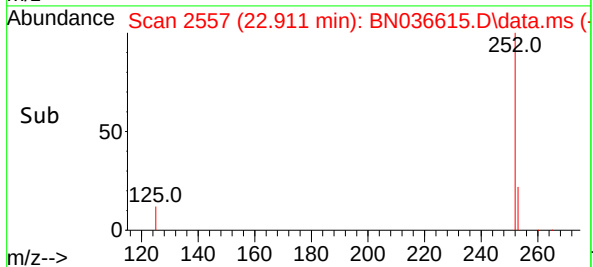
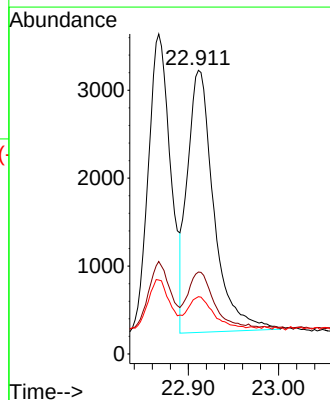
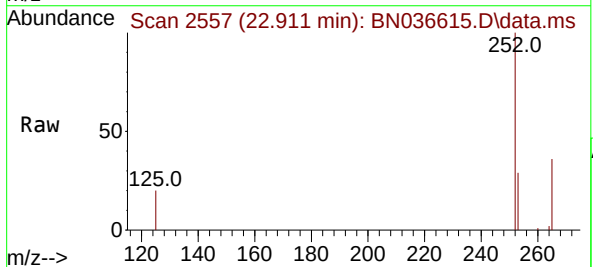
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

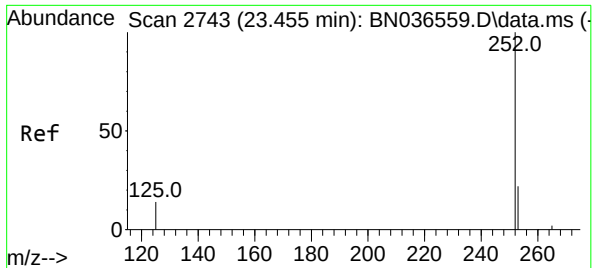
Tgt Ion:252 Resp: 5957
Ion Ratio Lower Upper
252 100
253 28.9 23.9 35.9
125 23.1 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.445 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036615.D
Acq: 14 Mar 2025 20:30

Tgt Ion:252 Resp: 6070
Ion Ratio Lower Upper
252 100
253 28.9 24.6 36.8
125 20.2 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.456 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

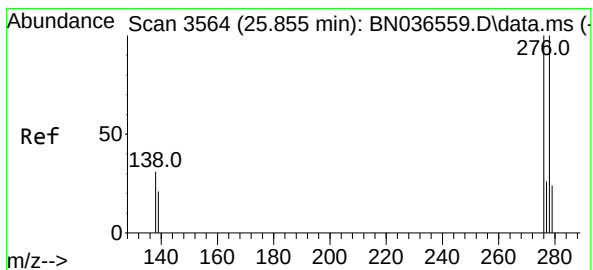
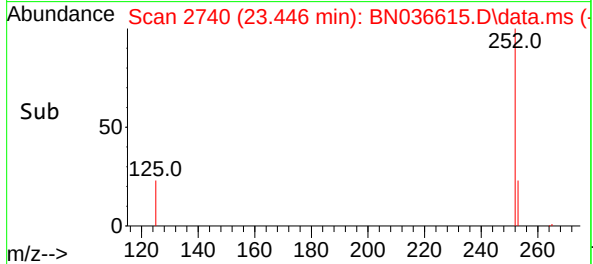
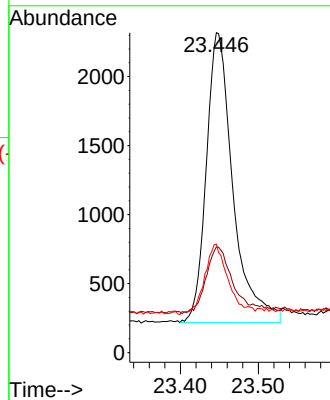
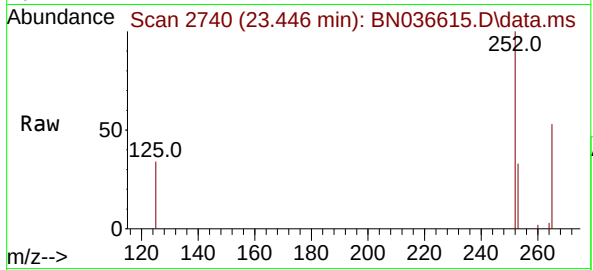
Tgt Ion:252 Resp: 4994

Ion Ratio Lower Upper

252 100

253 33.0 27.8 41.8

125 33.9 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.844 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036615.D

Acq: 14 Mar 2025 20:30

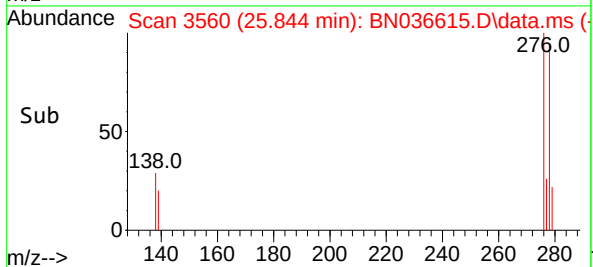
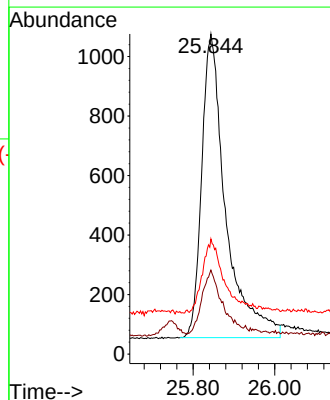
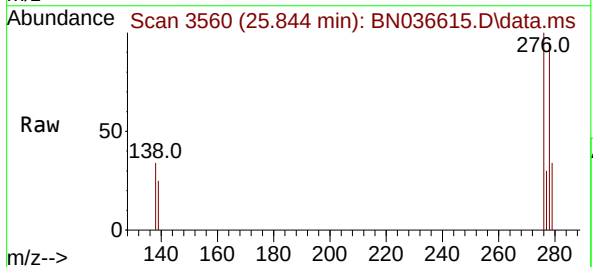
Tgt Ion:278 Resp: 4159

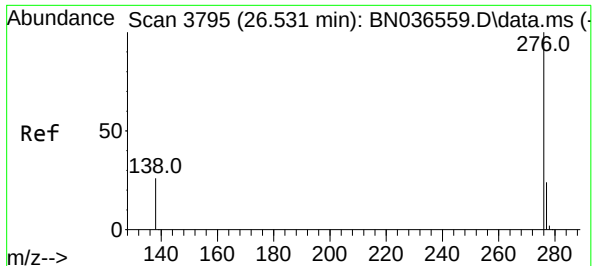
Ion Ratio Lower Upper

278 100

139 26.2 20.8 31.2

279 36.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.426 ng

RT: 26.522 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN036615.D

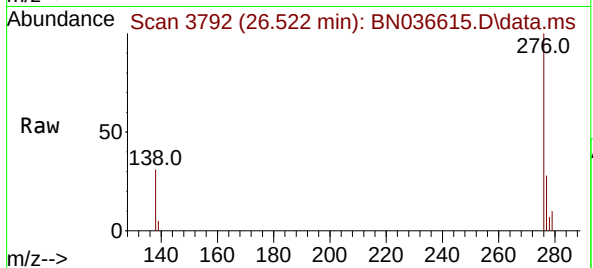
Acq: 14 Mar 2025 20:30

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



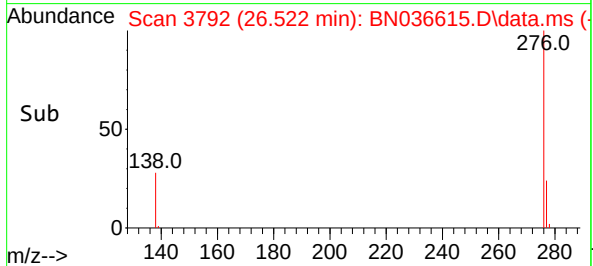
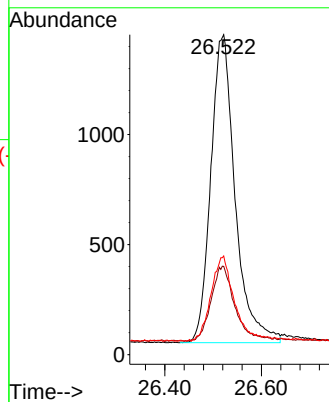
Tgt Ion:276 Resp: 4897

Ion Ratio Lower Upper

276 100

277 27.6 22.2 33.4

138 30.8 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036615.D
 Acq On : 14 Mar 2025 20:30
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 14 23:41:12 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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
2	1,4-Dioxane	0.444	0.512	-15.3	98	0.00
3	n-Nitrosodimethylamine	0.898	0.964	-7.3	98	0.00
4 S	2-Fluorophenol	0.932	0.927	0.5	89	0.00
5 S	Phenol-d6	1.152	1.120	2.8	94	0.00
6	bis(2-Chloroethyl)ether	1.190	1.134	4.7	91	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8 S	Nitrobenzene-d5	0.435	0.416	4.4	100	0.00
9	Naphthalene	1.177	1.200	-2.0	99	-0.01
10	Hexachlorobutadiene	0.277	0.289	-4.3	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.605	-1.7	99	-0.01
12	2-Methylnaphthalene	0.749	0.751	-0.3	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	96	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.184	-1.1	95	0.00
15 S	2-Fluorobiphenyl	2.327	2.425	-4.2	97	0.00
16	Acenaphthylene	1.888	2.005	-6.2	100	0.00
17	Acenaphthene	1.236	1.299	-5.1	98	-0.01
18	Fluorene	1.672	1.789	-7.0	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.067	22.1	89	0.00
21	4-Bromophenyl-phenylether	0.251	0.262	-4.4	97	0.00
22	Hexachlorobenzene	0.303	0.322	-6.3	97	0.00
23	Atrazine	0.201	0.205	-2.0	97	0.00
24	Pentachlorophenol	0.138	0.129	6.5	95	-0.01
25	Phenanthrene	1.200	1.267	-5.6	99	0.00
26	Anthracene	1.083	1.108	-2.3	98	-0.01
27 SURR	Fluoranthene-d10	1.025	1.072	-4.6	97	0.00
28	Fluoranthene	1.348	1.463	-8.5	102	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	1.956	2.096	-7.2	102	0.00
31 S	Terphenyl-d14	0.958	0.981	-2.4	99	0.00
32	Benzo(a)anthracene	1.391	1.413	-1.6	102	0.00
33	Chrysene	1.520	1.697	-11.6	109	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.111	-12.2	110	0.00
35 I	Perylene-d12	1.000	1.000	0.0	101	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.508	-4.4	99	-0.01
37	Benzo(b)fluoranthene	1.456	1.667	-14.5	109	0.00
38	Benzo(k)fluoranthene	1.527	1.698	-11.2	106	0.00
39 C	Benzo(a)pyrene	1.226	1.397	-13.9	108	0.00
40	Dibenzo(a,h)anthracene	1.124	1.164	-3.6	101	-0.01
41	Benzo(g,h,i)perylene	1.286	1.370	-6.5	100	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036615.D
Acq On : 14 Mar 2025 20:30
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 14 23:41:12 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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	95	0.00
2	1,4-Dioxane	0.400	0.462	-15.5	98	0.00
3	n-Nitrosodimethylamine	0.400	0.430	-7.5	98	0.00
4 S	2-Fluorophenol	0.400	0.398	0.5	89	0.00
5 S	Phenol-d6	0.400	0.389	2.8	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	91	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8 S	Nitrobenzene-d5	0.400	0.382	4.5	100	0.00
9	Naphthalene	0.400	0.408	-2.0	99	-0.01
10	Hexachlorobutadiene	0.400	0.417	-4.2	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.407	-1.7	99	-0.01
12	2-Methylnaphthalene	0.400	0.401	-0.3	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	96	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.405	-1.3	95	0.00
15 S	2-Fluorobiphenyl	0.400	0.417	-4.2	97	0.00
16	Acenaphthylene	0.400	0.425	-6.2	100	0.00
17	Acenaphthene	0.400	0.420	-5.0	98	-0.01
18	Fluorene	0.400	0.428	-7.0	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	101	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.418	-4.5	97	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	97	0.00
23	Atrazine	0.400	0.409	-2.2	97	0.00
24	Pentachlorophenol	0.400	0.374	6.5	95	-0.01
25	Phenanthrene	0.400	0.422	-5.5	99	0.00
26	Anthracene	0.400	0.409	-2.2	98	-0.01
27 SURR	Fluoranthene-d10	0.400	0.418	-4.5	97	0.00
28	Fluoranthene	0.400	0.434	-8.5	102	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.429	-7.2	102	0.00
31 S	Terphenyl-d14	0.400	0.410	-2.5	99	0.00
32	Benzo(a)anthracene	0.400	0.406	-1.5	102	0.00
33	Chrysene	0.400	0.447	-11.7	109	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.449	-12.2	110	0.00
35 I	Perylene-d12	0.400	0.400	0.0	101	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	99	-0.01
37	Benzo(b)fluoranthene	0.400	0.458	-14.5	109	0.00
38	Benzo(k)fluoranthene	0.400	0.445	-11.2	106	0.00
39 C	Benzo(a)pyrene	0.400	0.456	-14.0	108	0.00
40	Dibenzo(a,h)anthracene	0.400	0.414	-3.5	101	-0.01
41	Benzo(g,h,i)perylene	0.400	0.426	-6.5	100	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: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: BNA_N Calibration Date/Time: 03/15/2025 08:35

Lab File ID: BN036633.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	0.597		0.3	20.0
Fluoranthene-d10	1.025	1.103		7.6	20.0
2-Fluorophenol	0.932	0.969		4.0	20.0
Phenol-d6	1.152	1.163		1.0	20.0
Nitrobenzene-d5	0.435	0.413		-5.1	20.0
Naphthalene	1.177	1.192		1.3	20.0
2-Fluorobiphenyl	2.327	2.306		-0.9	20.0
Acenaphthylene	1.888	1.962		3.9	20.0
Acenaphthene	1.236	1.288		4.2	20.0
Fluorene	1.672	1.734		3.7	20.0
2,4,6-Tribromophenol	0.182	0.181		-0.5	20.0
Phenanthrene	1.200	1.325		10.4	20.0
Anthracene	1.083	1.167		7.8	20.0
Fluoranthene	1.348	1.486		10.2	20.0
Pyrene	1.956	2.216		13.3	20.0
Terphenyl-d14	0.958	1.011		5.5	20.0
Benzo(a)anthracene	1.391	1.406		1.1	20.0
Chrysene	1.520	1.692		11.3	20.0
Benzo(b)fluoranthene	1.456	1.678		15.2	20.0
Benzo(k)fluoranthene	1.527	1.734		13.6	20.0
Benzo(a)pyrene	1.226	1.426		16.3	20.0
Indeno(1,2,3-cd)pyrene	1.444	1.566		8.4	20.0
Dibenzo(a,h)anthracene	1.124	1.148		2.1	20.0
Benzo(g,h,i)perylene	1.286	1.394		8.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036633.D
 Acq On : 15 Mar 2025 08:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 17 00:34:16 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

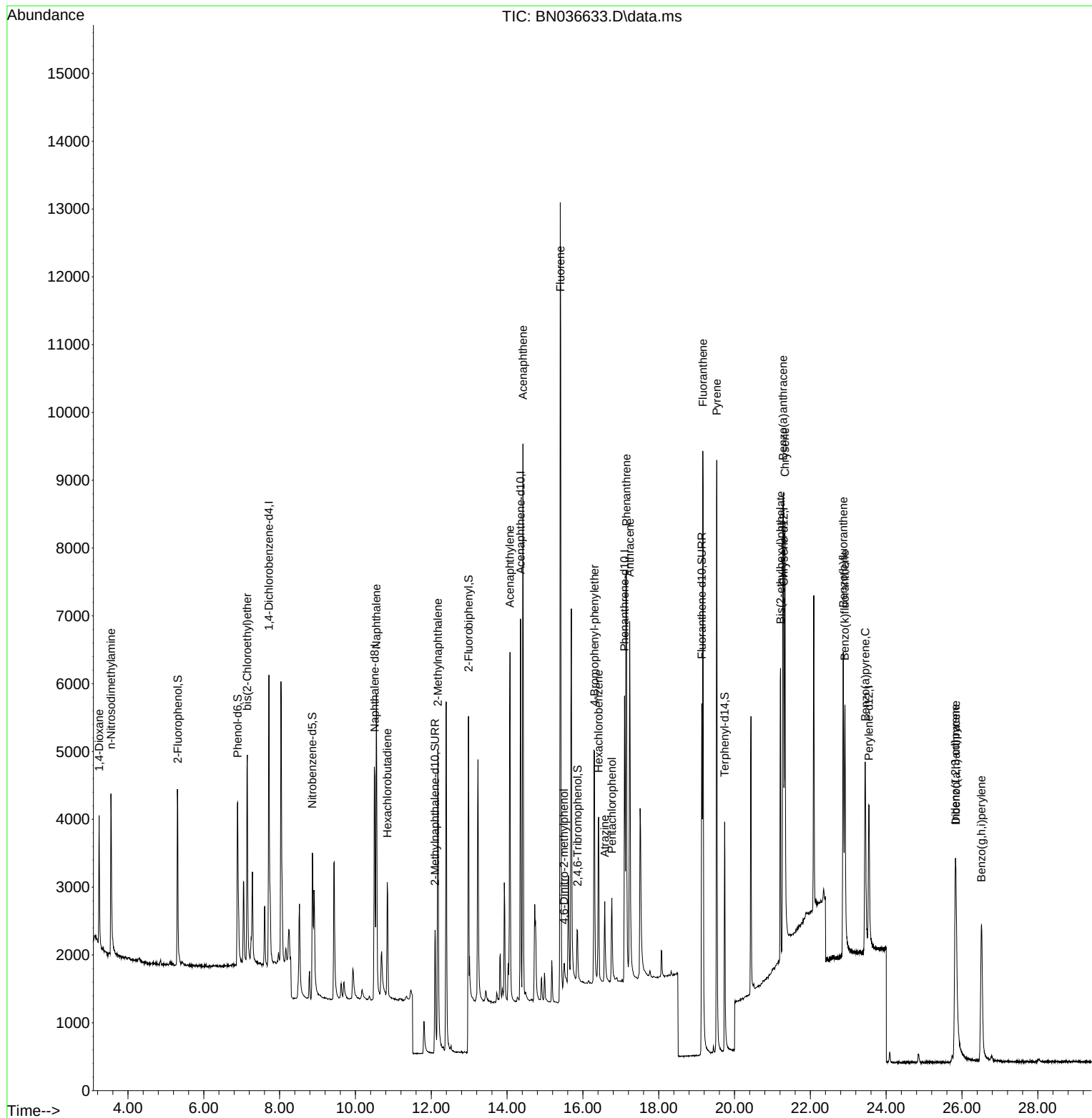
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2056	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5167	0.400	ng	# 0.00
13) Acenaphthene-d10	14.356	164	3028	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5852	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3964	0.400	ng	0.00
35) Perylene-d12	23.543	264	3322	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1993	0.416	ng	0.00
5) Phenol-d6	6.894	99	2392	0.404	ng	0.00
8) Nitrobenzene-d5	8.865	82	2133	0.379	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3084	0.401	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	549	0.400	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6983	0.396	ng	0.00
27) Fluoranthene-d10	19.136	212	6452	0.430	ng	0.00
31) Terphenyl-d14	19.740	244	4008	0.422	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1044	0.458	ng	99
3) n-Nitrosodimethylamine	3.550	42	2061	0.447	ng	# 97
6) bis(2-Chloroethyl)ether	7.147	93	2478	0.405	ng	99
9) Naphthalene	10.552	128	6160	0.405	ng	100
10) Hexachlorobutadiene	10.840	225	1469	0.411	ng	# 100
12) 2-Methylnaphthalene	12.172	142	3909	0.404	ng	99
16) Acenaphthylene	14.078	152	5940	0.416	ng	99
17) Acenaphthene	14.420	154	3899	0.417	ng	99
18) Fluorene	15.403	166	5251	0.415	ng	98
20) 4,6-Dinitro-2-methylph...	15.499	198	423	0.429	ng	86
21) 4-Bromophenyl-phenylether	16.305	248	1586	0.433	ng	# 82
22) Hexachlorobenzene	16.416	284	1952	0.441	ng	96
23) Atrazine	16.578	200	1271	0.432	ng	95
24) Pentachlorophenol	16.764	266	770	0.381	ng	98
25) Phenanthrene	17.149	178	7751	0.442	ng	100
26) Anthracene	17.235	178	6831	0.431	ng	99
28) Fluoranthene	19.164	202	8694	0.441	ng	99
30) Pyrene	19.531	202	8785	0.453	ng	99
32) Benzo(a)anthracene	21.277	228	5572	0.404	ng	99
33) Chrysene	21.331	228	6707	0.445	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4427	0.451	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.823	276	5201	0.434	ng	97
37) Benzo(b)fluoranthene	22.867	252	5573	0.461	ng	96
38) Benzo(k)fluoranthene	22.911	252	5760	0.454	ng	97
39) Benzo(a)pyrene	23.449	252	4737	0.465	ng	# 95
40) Dibenzo(a,h)anthracene	25.841	278	3815	0.409	ng	98
41) Benzo(g,h,i)perylene	26.510	276	4632	0.434	ng	97

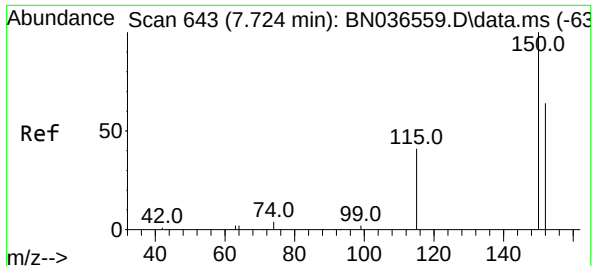
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036633.D
Acq On : 15 Mar 2025 08:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 17 00:34:16 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

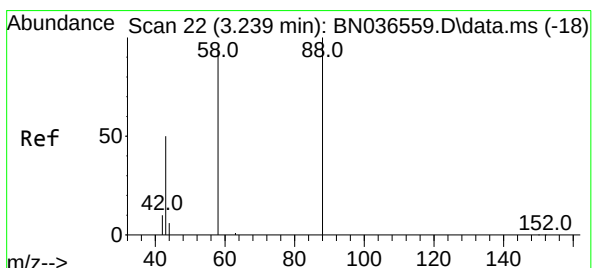
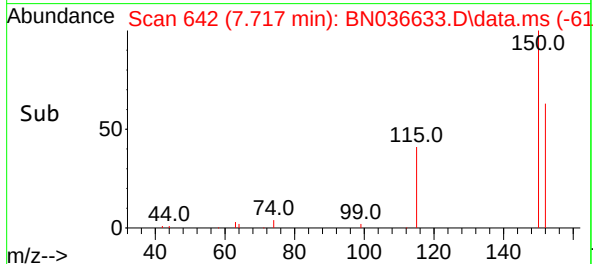
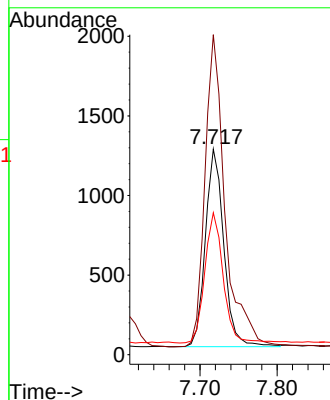
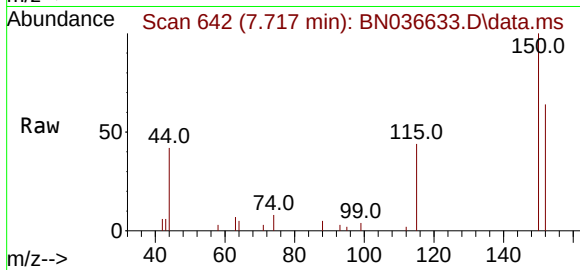




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036633.D
 Acq: 15 Mar 2025 08:35

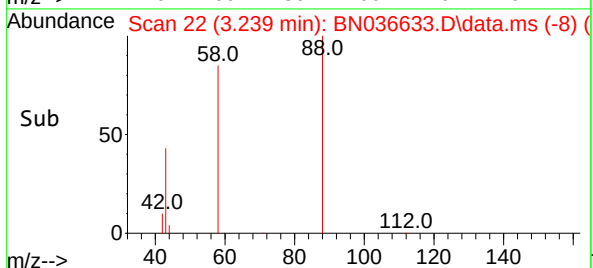
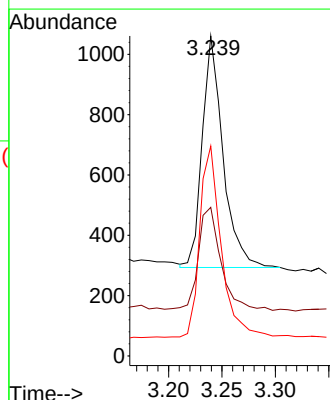
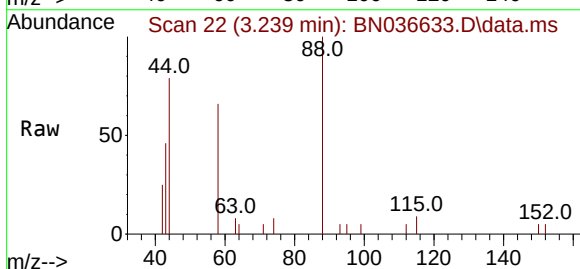
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:152 Resp: 2056
 Ion Ratio Lower Upper
 152 100
 150 155.6 123.7 185.5
 115 69.0 54.3 81.5

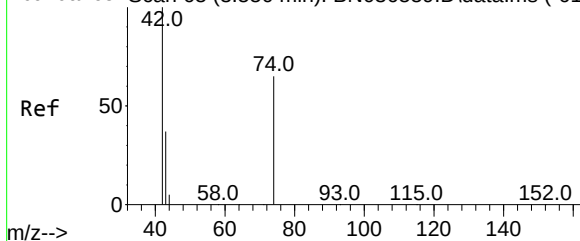


#2
 1,4-Dioxane
 Concen: 0.458 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN036633.D
 Acq: 15 Mar 2025 08:35

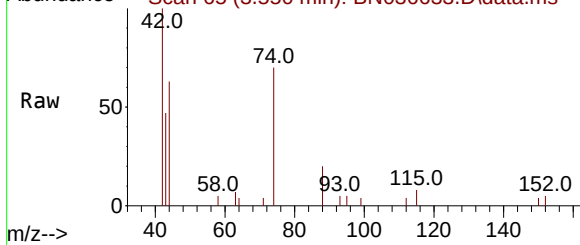
Tgt Ion: 88 Resp: 1044
 Ion Ratio Lower Upper
 88 100
 43 48.7 37.8 56.8
 58 85.2 67.4 101.2



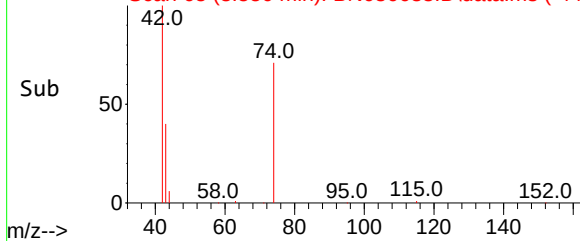
Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



Abundance Scan 65 (3.550 min): BN036633.D\data.ms



Abundance Scan 65 (3.550 min): BN036633.D\data.ms (-44)



#3

n-Nitrosodimethylamine

Concen: 0.447 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 2061

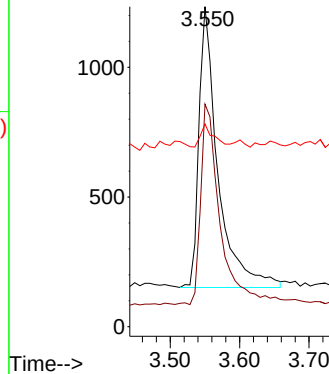
Ion Ratio Lower Upper

42 100

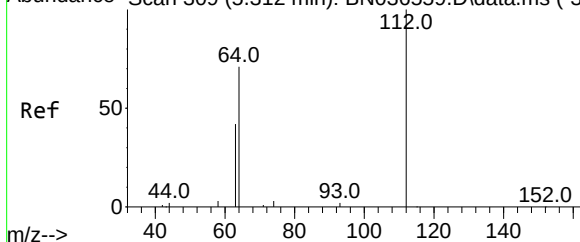
74 73.2 60.6 90.8

44 5.8 6.3 9.5#

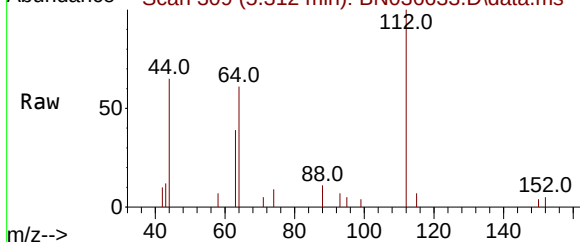
Abundance



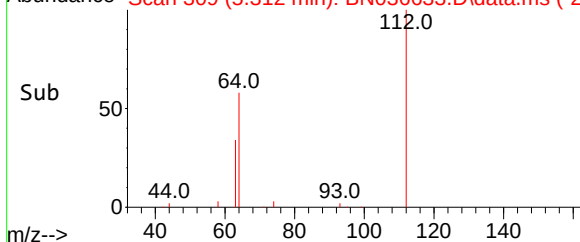
Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



Abundance Scan 309 (5.312 min): BN036633.D\data.ms



Abundance Scan 309 (5.312 min): BN036633.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.416 ng

RT: 5.312 min Scan# 309

Delta R.T. 0.000 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Tgt Ion: 112 Resp: 1993

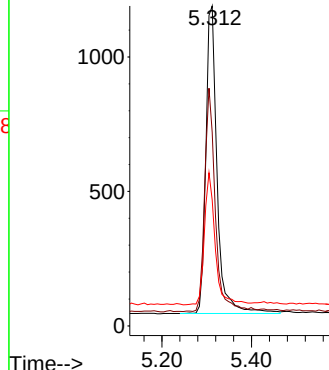
Ion Ratio Lower Upper

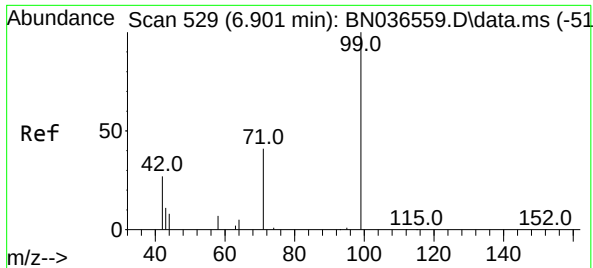
112 100

64 69.0 53.1 79.7

63 41.2 31.8 47.8

Abundance

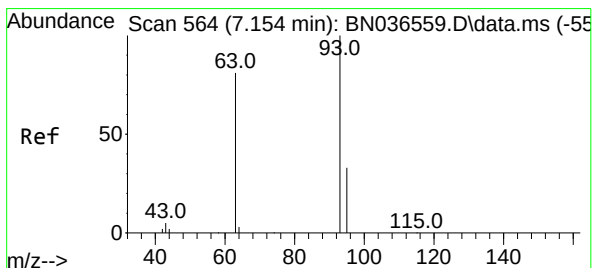
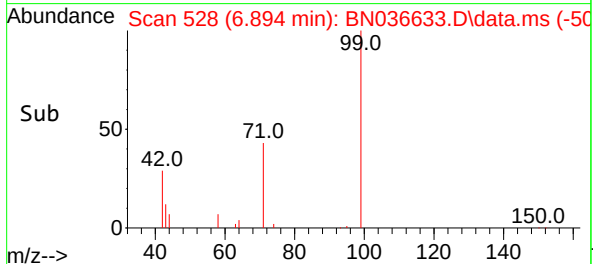
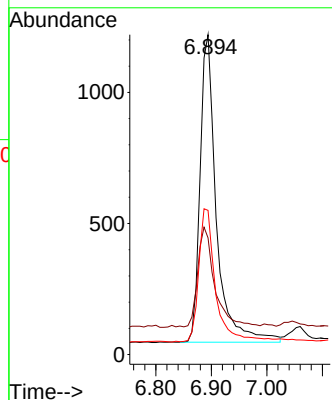
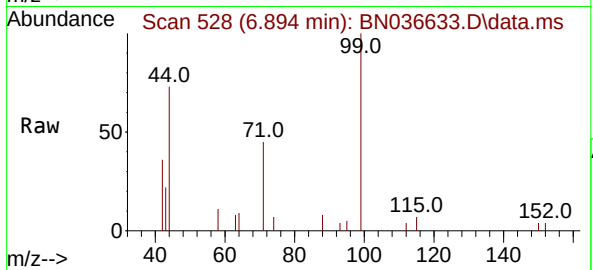




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

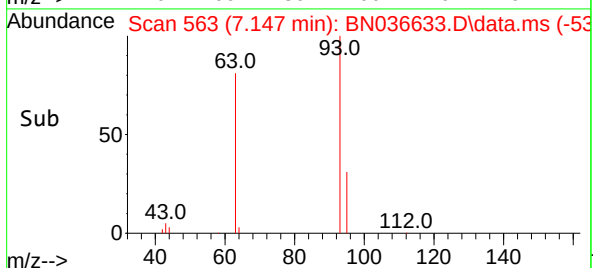
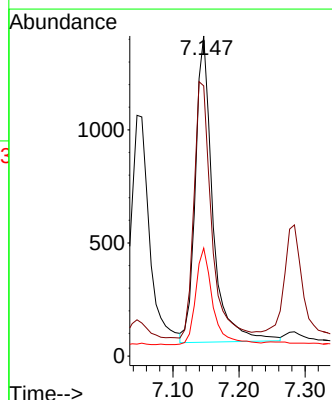
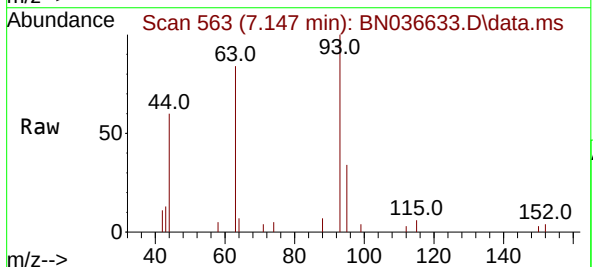
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

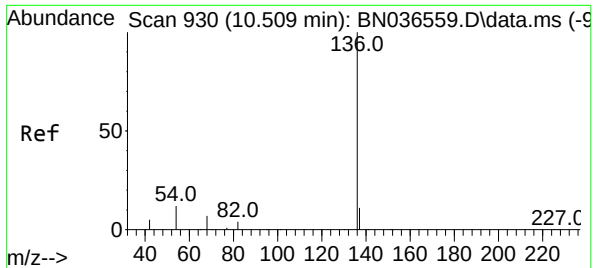
Tgt Ion: 99 Resp: 2392
Ion Ratio Lower Upper
99 100
42 33.5 26.5 39.7
71 46.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.405 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion: 93 Resp: 2478
Ion Ratio Lower Upper
93 100
63 84.2 67.7 101.5
95 30.8 25.6 38.4

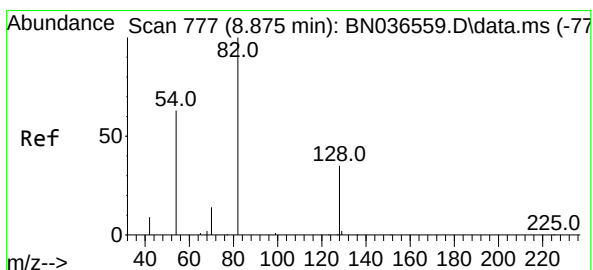
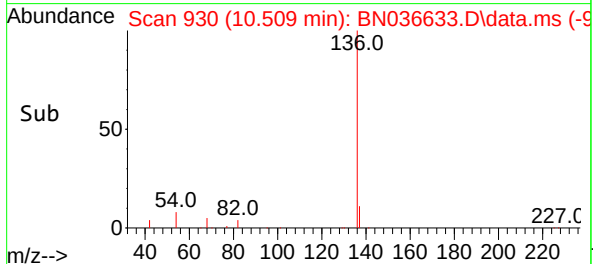
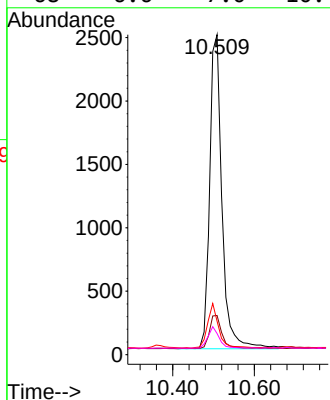
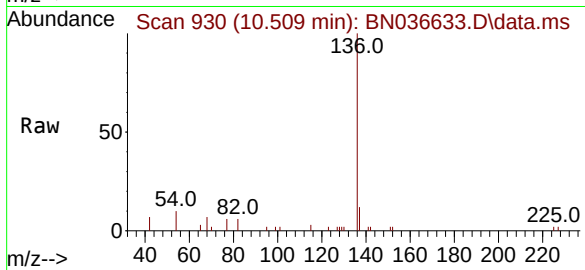




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

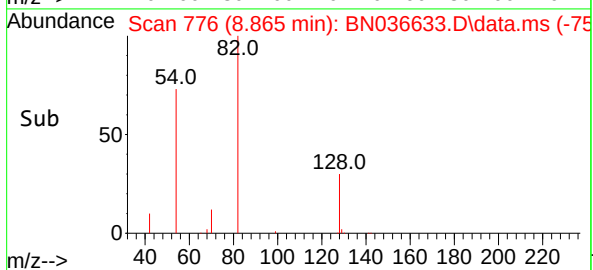
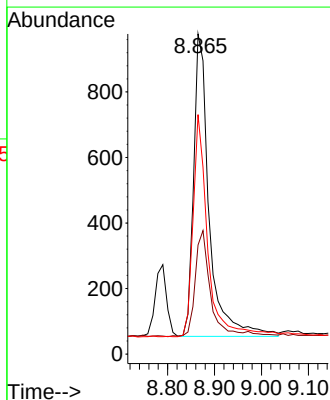
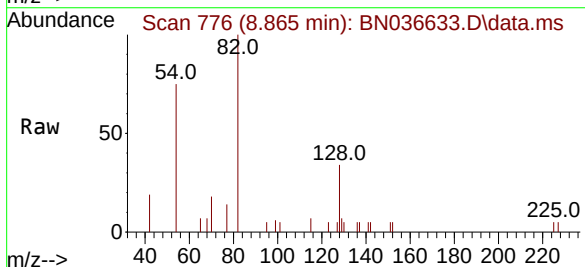
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

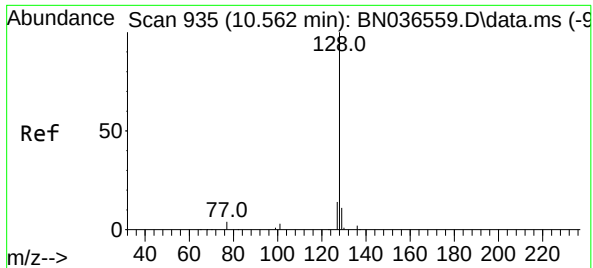
Tgt Ion:	136	Resp:	5167
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.3	15.5
54	10.4	11.5	17.3#
68	6.6	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:	82	Resp:	2133
Ion	Ratio	Lower	Upper
82	100		
128	34.1	30.6	45.8
54	74.8	52.2	78.4

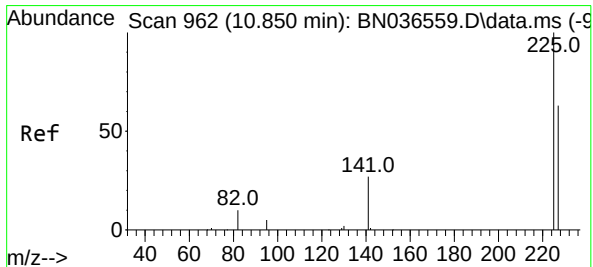
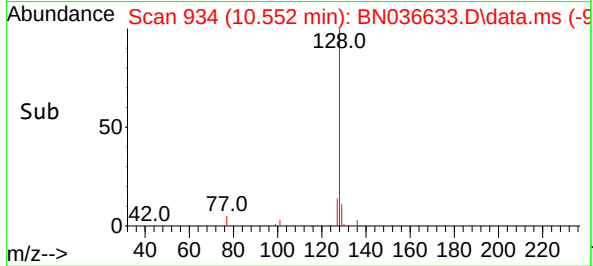
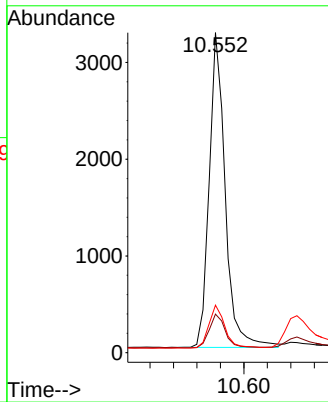
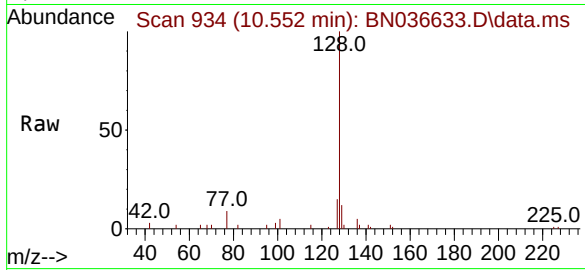




#9
Naphthalene
Concen: 0.405 ng
RT: 10.552 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

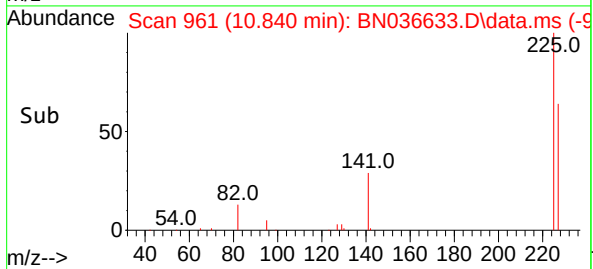
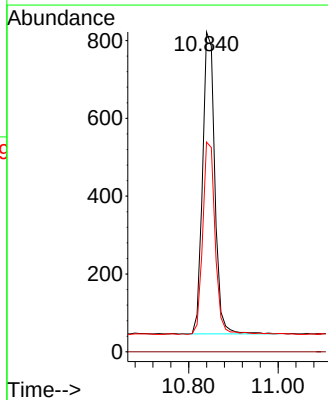
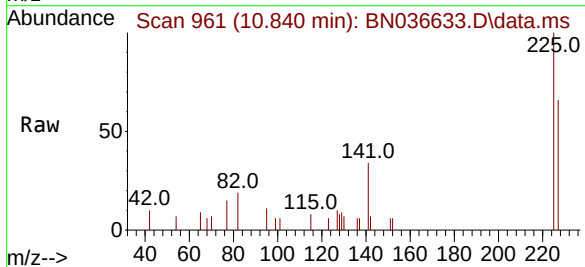
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

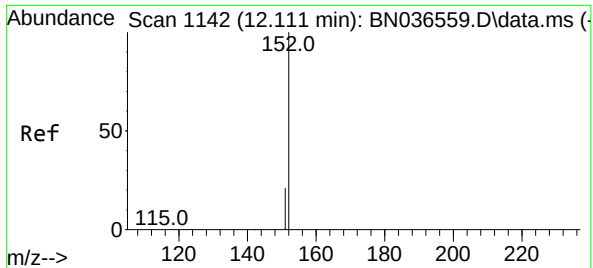
Tgt Ion:	128	Resp:	6160
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:	225	Resp:	1469
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8

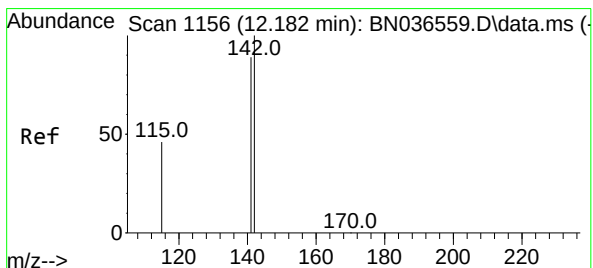
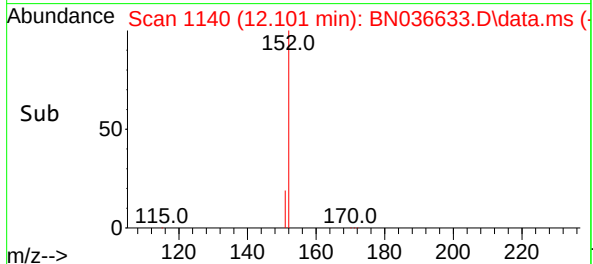
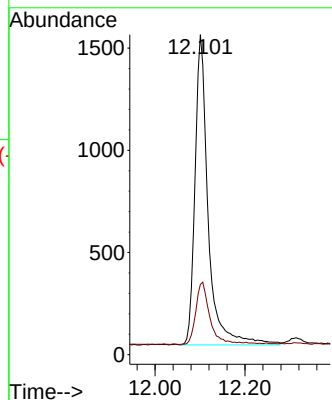
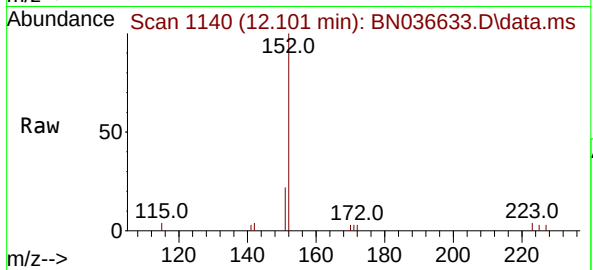




#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

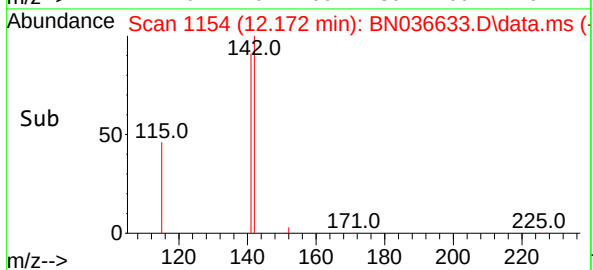
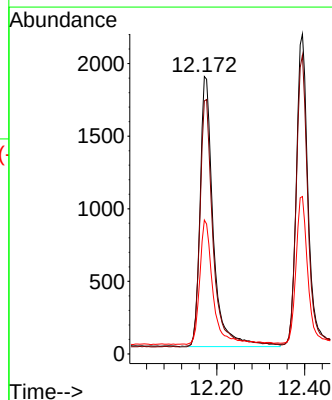
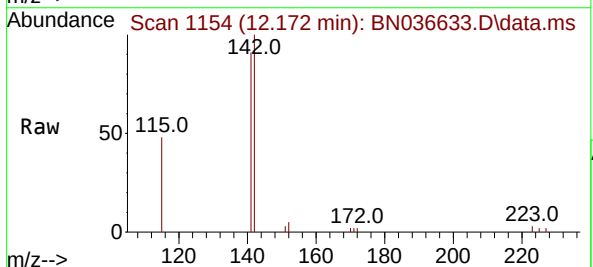
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

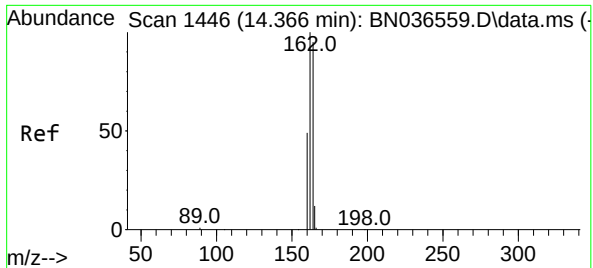
Tgt Ion:152 Resp: 3084
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.404 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:142 Resp: 3909
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 48.3 38.3 57.5

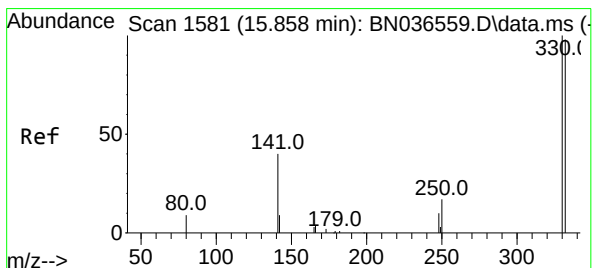
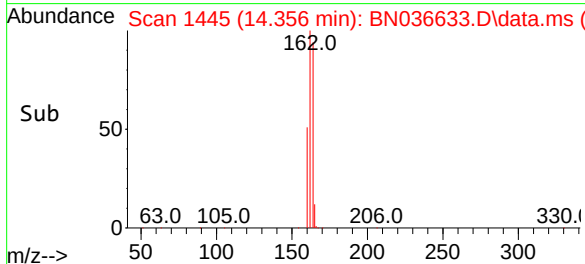
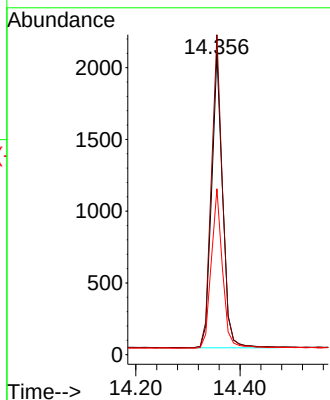
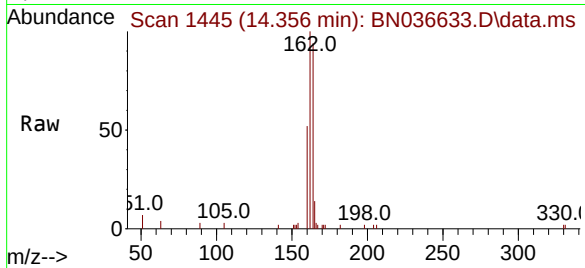




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

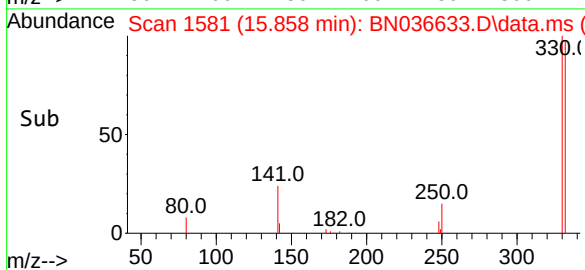
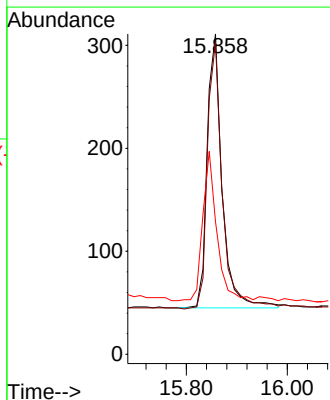
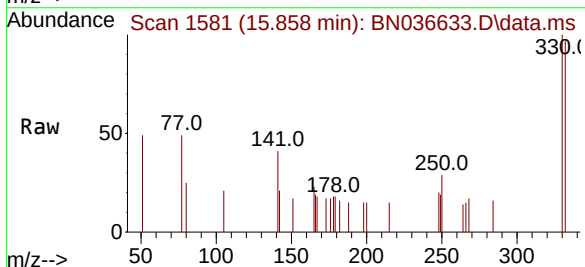
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

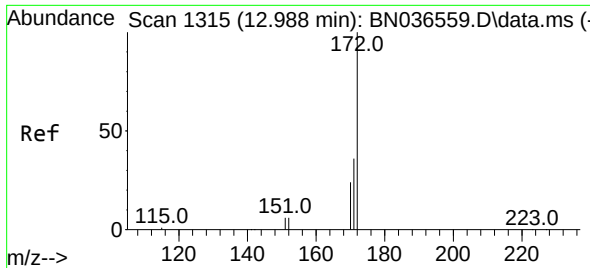
Tgt Ion:164 Resp: 3028
Ion Ratio Lower Upper
164 100
162 106.4 84.2 126.2
160 55.2 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:330 Resp: 549
Ion Ratio Lower Upper
330 100
332 97.8 75.2 112.8
141 50.8 43.4 65.2

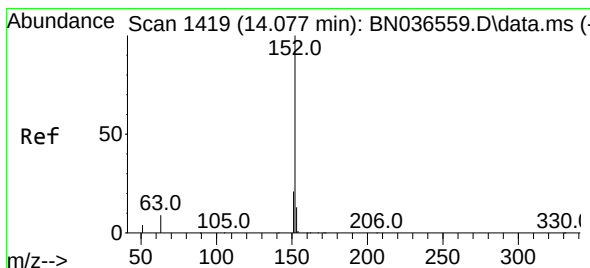
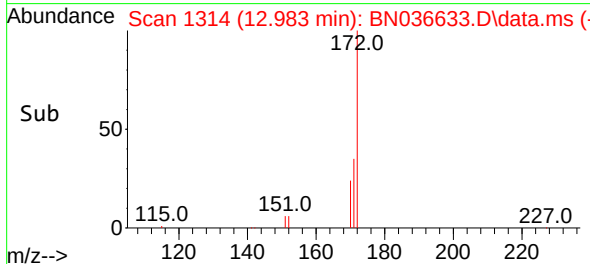
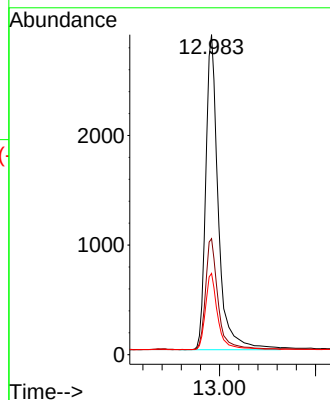
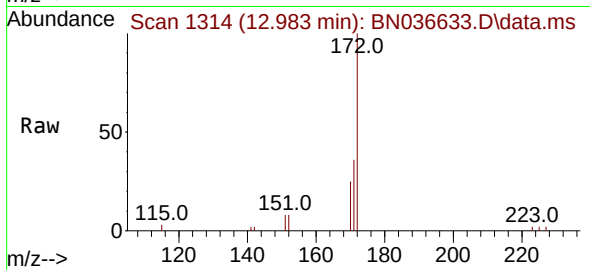




#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

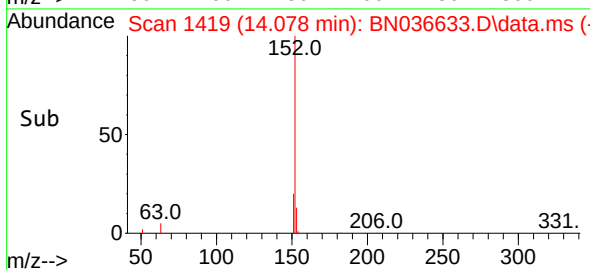
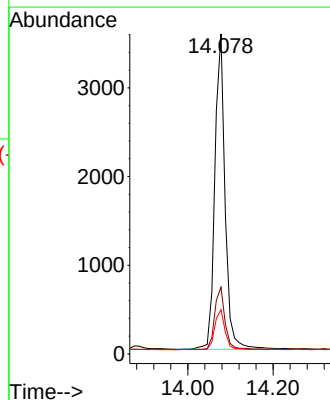
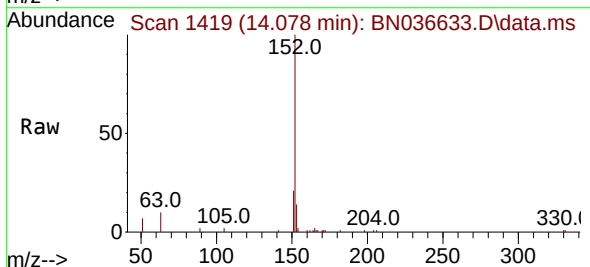
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

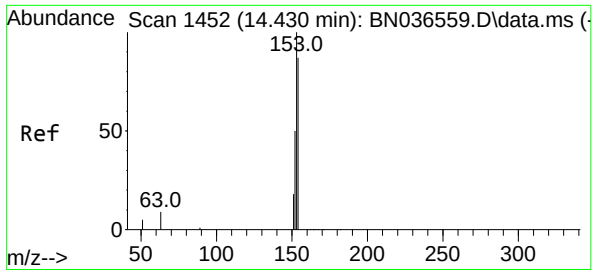
Tgt Ion:172 Resp: 6983
Ion Ratio Lower Upper
172 100
171 36.2 29.5 44.3
170 25.4 20.2 30.4



#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:152 Resp: 5940
Ion Ratio Lower Upper
152 100
151 20.0 16.2 24.4
153 12.9 10.6 15.8

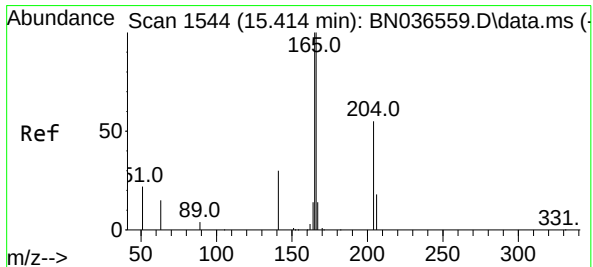
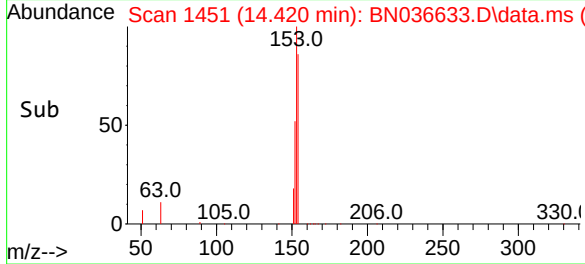
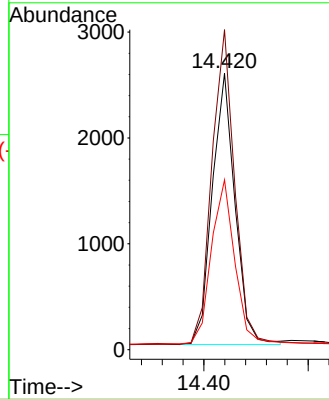
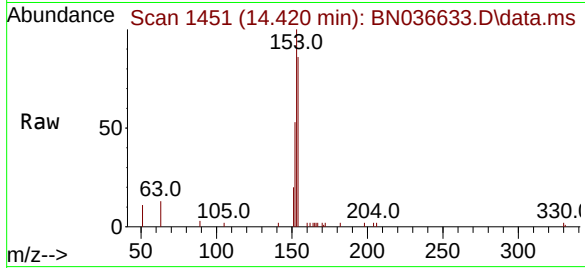




#17
Acenaphthene
Concen: 0.417 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

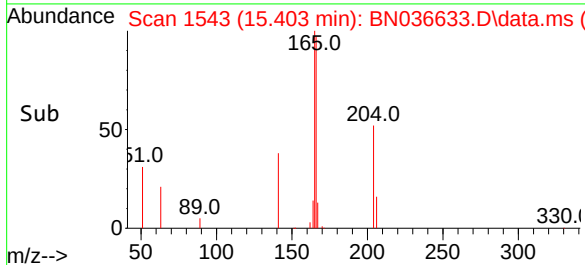
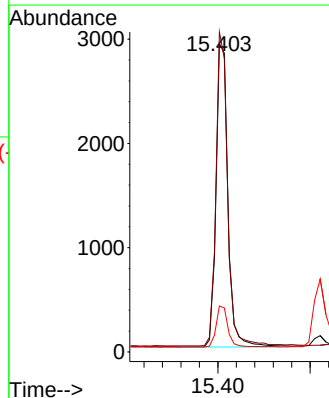
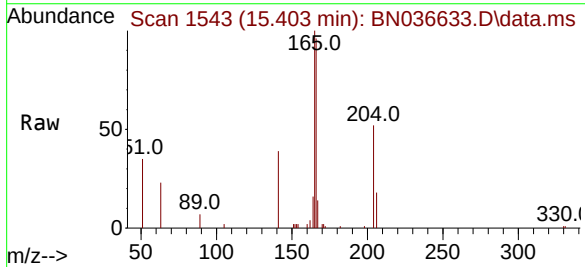
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

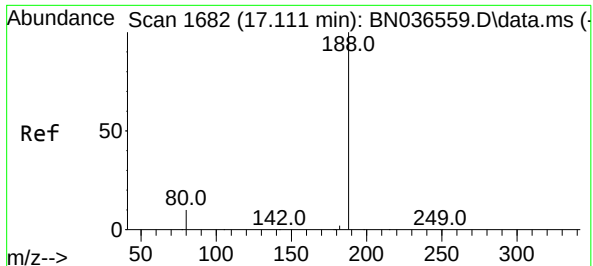
Tgt Ion	154	Resp	3899
Ion Ratio	Lower	Upper	
154	100		
153	117.1	94.1	141.1
152	63.2	49.8	74.6



#18
Fluorene
Concen: 0.415 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion	166	Resp	5251
Ion Ratio	Lower	Upper	
166	100		
165	101.5	79.8	119.8
167	13.8	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

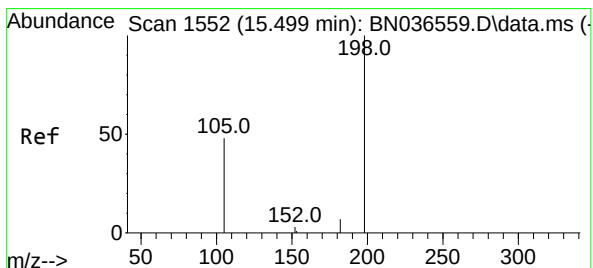
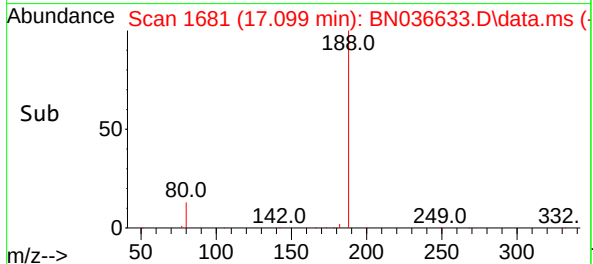
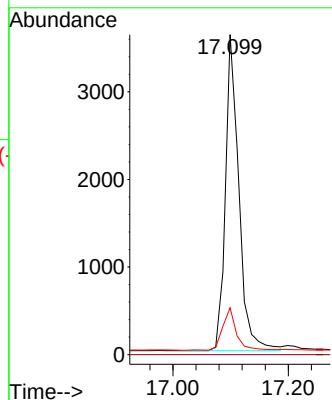
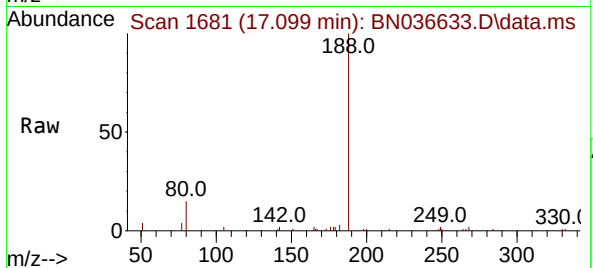
Tgt Ion:188 Resp: 5852

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.6 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.429 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

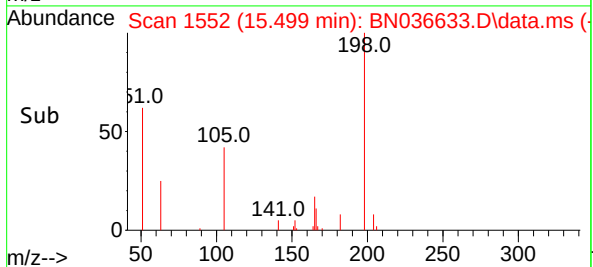
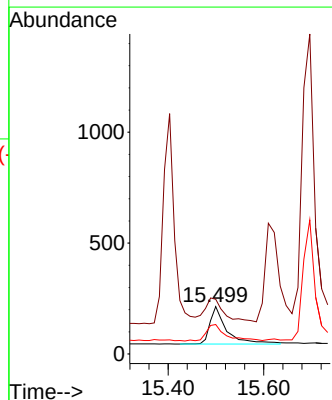
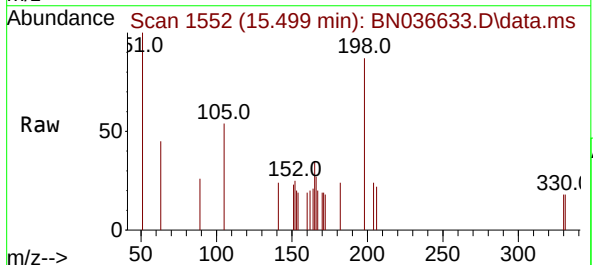
Tgt Ion:198 Resp: 423

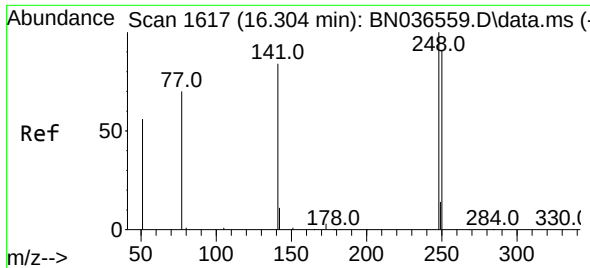
Ion Ratio Lower Upper

198 100

51 115.4 107.9 161.9

105 62.1 56.2 84.2

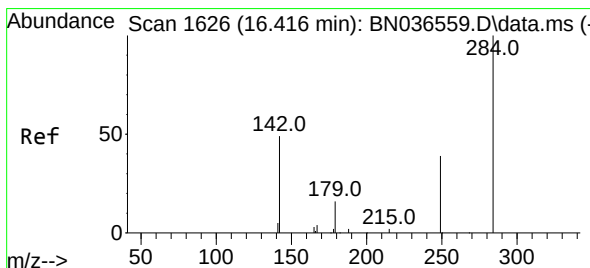
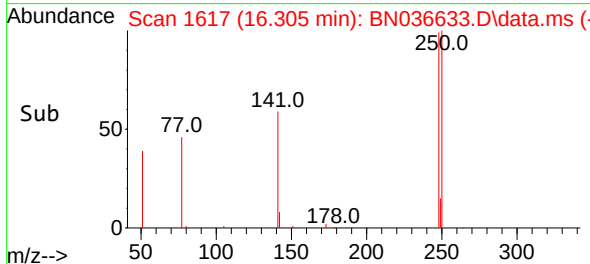
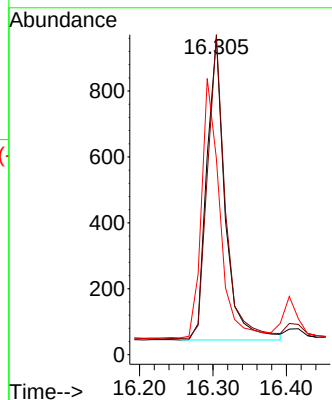
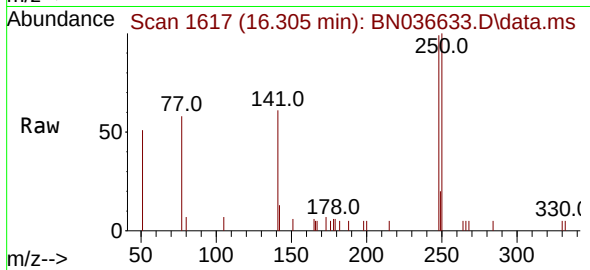




#21
4-Bromophenyl-phenylether
Concen: 0.433 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

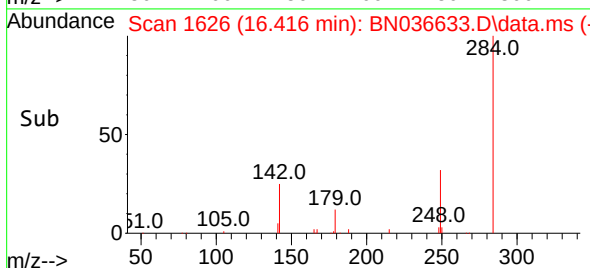
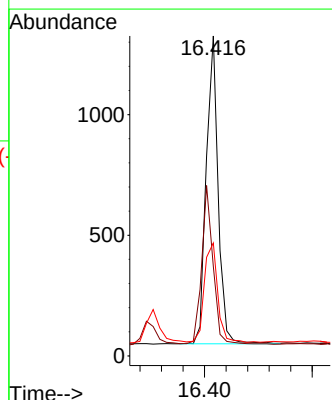
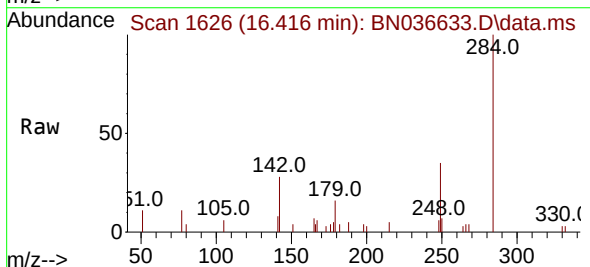
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

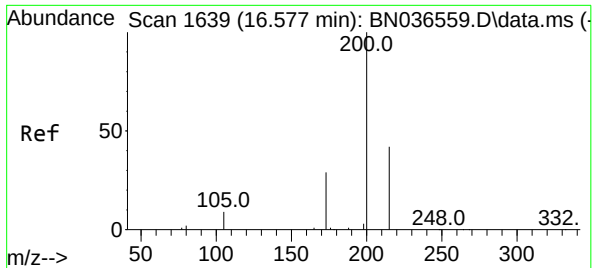
Tgt Ion:248 Resp: 1586
Ion Ratio Lower Upper
248 100
250 101.0 73.0 109.6
141 62.0 68.6 103.0#



#22
Hexachlorobenzene
Concen: 0.441 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:284 Resp: 1952
Ion Ratio Lower Upper
284 100
142 49.7 37.0 55.4
249 36.6 28.1 42.1

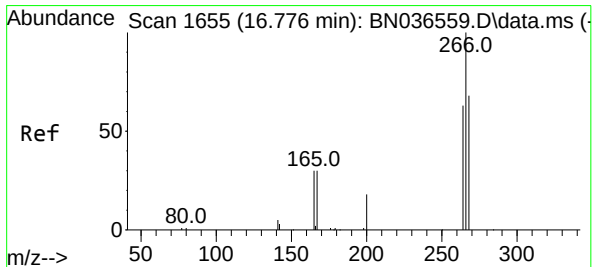
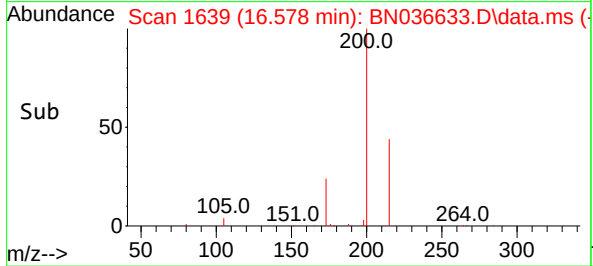
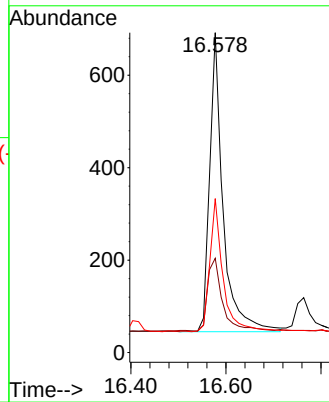
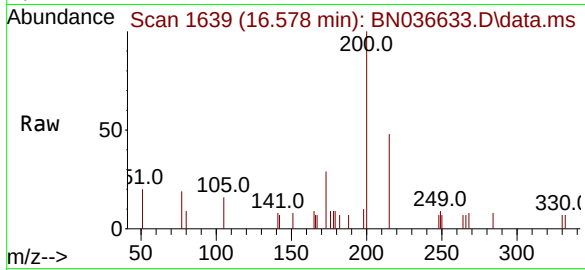




#23
Atrazine
Concen: 0.432 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

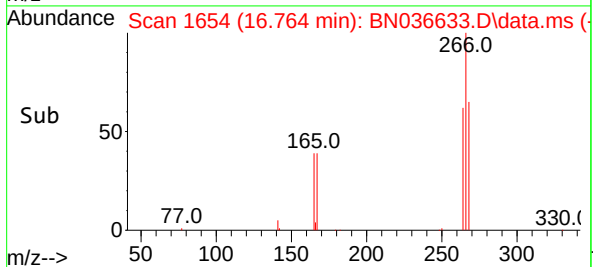
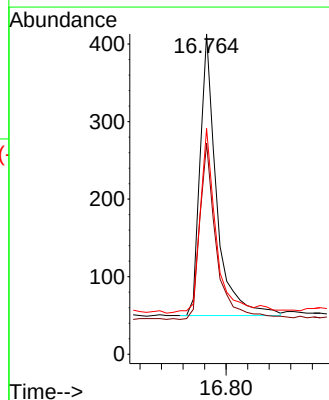
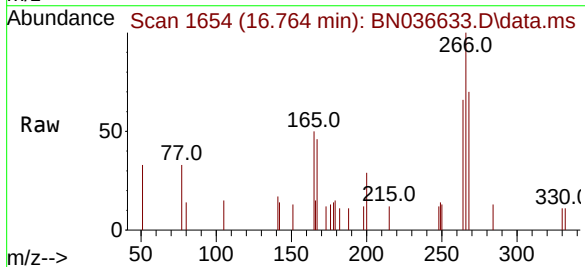
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

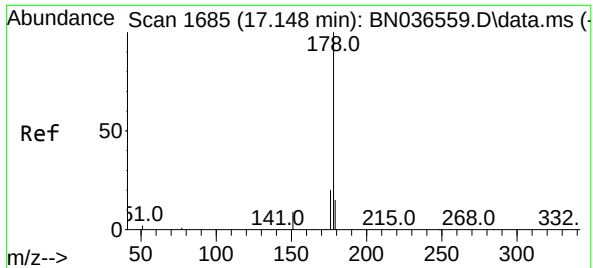
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.5	27.3	40.9
215	48.1	36.8	55.2



#24
Pentachlorophenol
Concen: 0.381 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.1	50.9	76.3

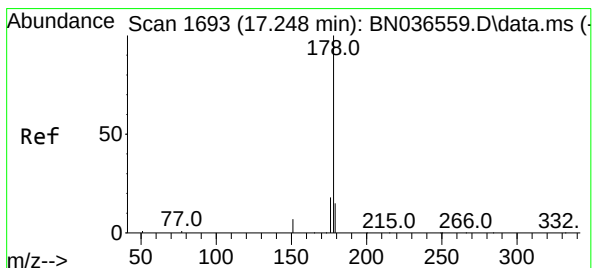
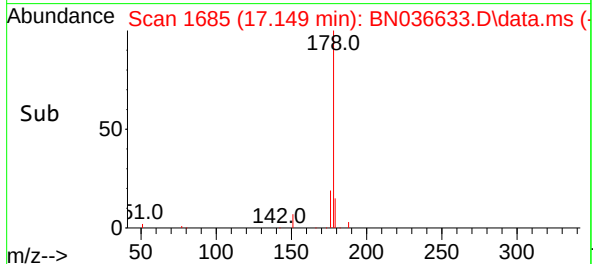
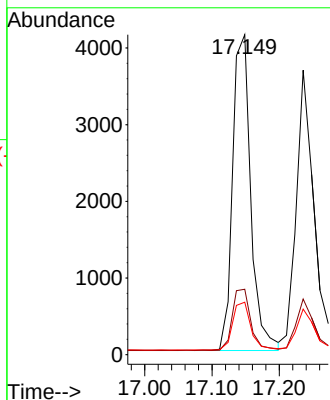
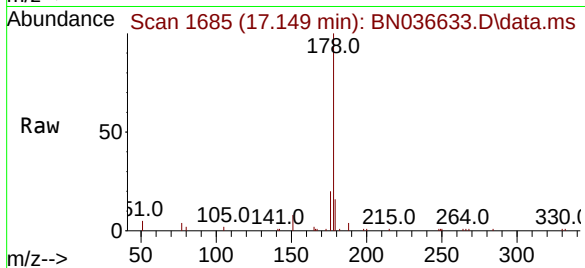




#25
Phenanthrene
Concen: 0.442 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

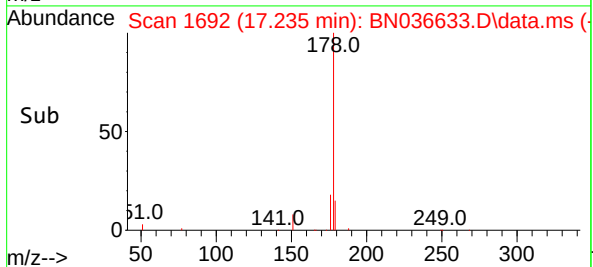
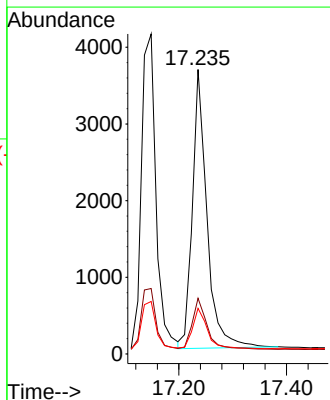
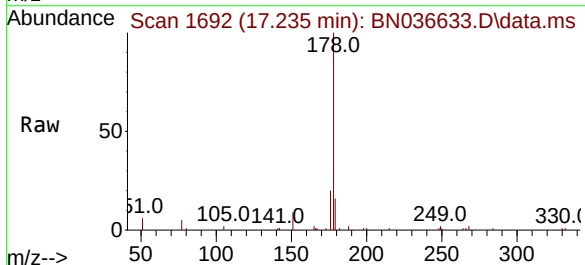
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

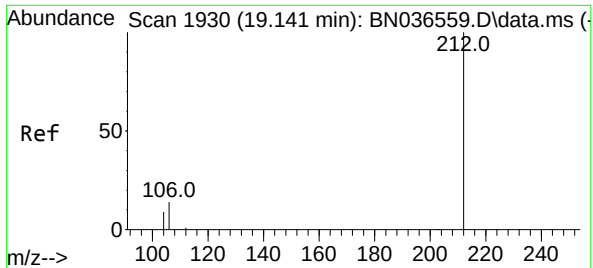
Tgt Ion:178 Resp: 7751
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.431 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:178 Resp: 6831
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 14.9 12.6 18.8

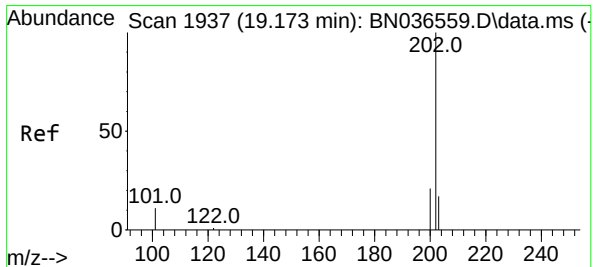
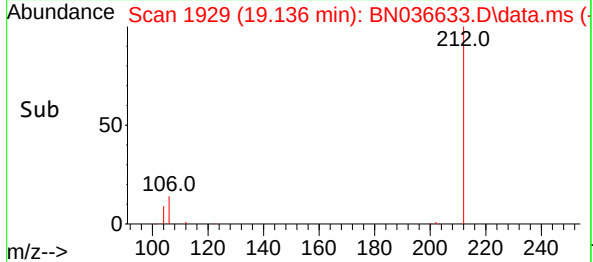
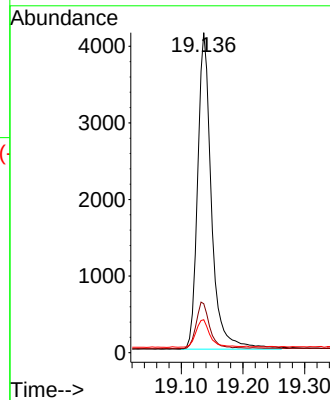
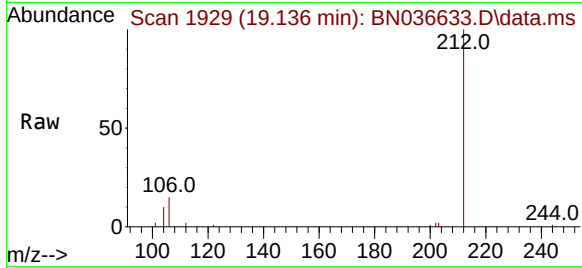




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

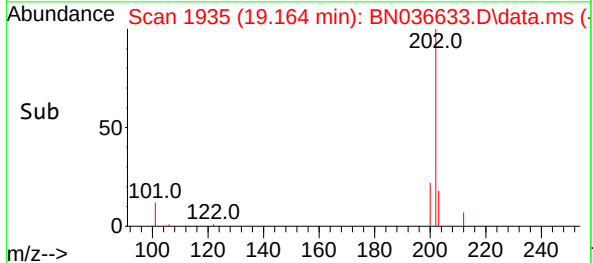
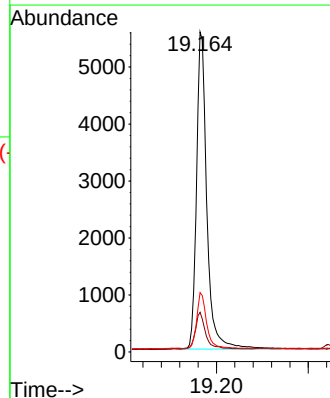
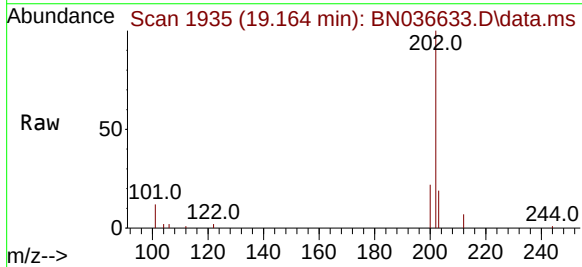
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

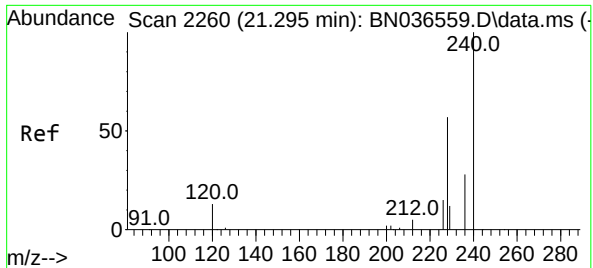
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.9	7.3	10.9



#28
Fluoranthene
Concen: 0.441 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	9.4	14.0
203	17.0	13.5	20.3

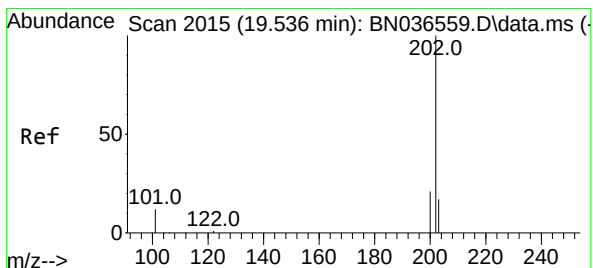
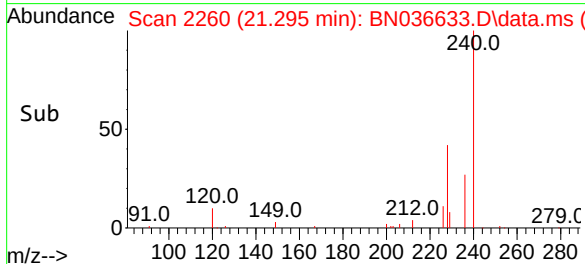
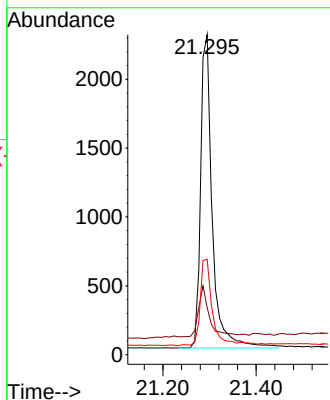
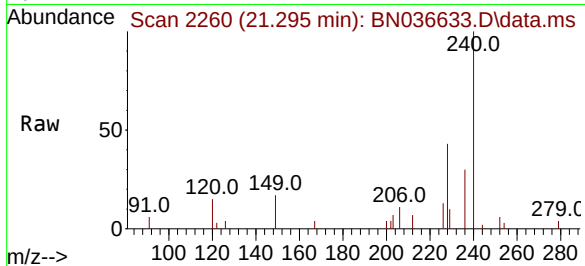




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

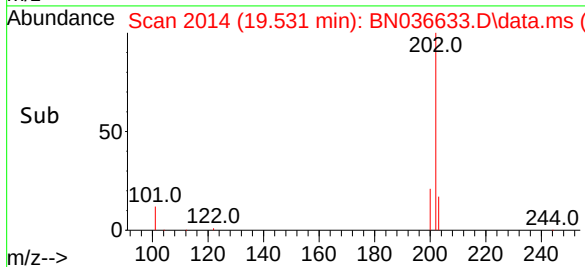
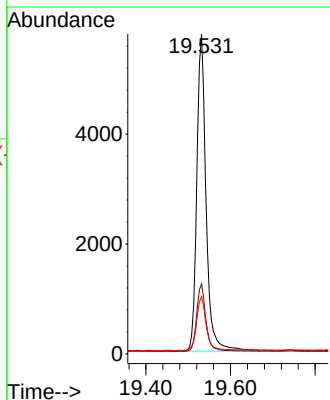
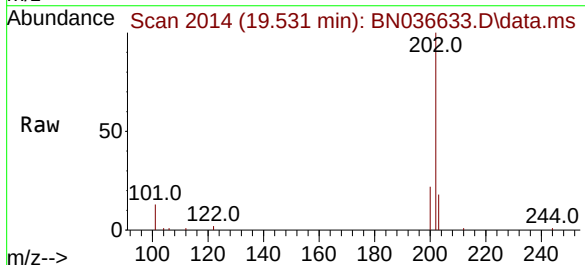
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

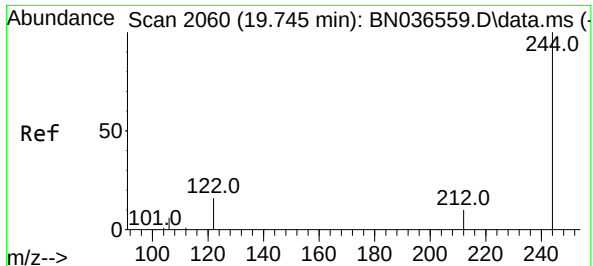
Tgt Ion:240 Resp: 3964
Ion Ratio Lower Upper
240 100
120 14.7 14.6 22.0
236 29.9 24.1 36.1



#30
Pyrene
Concen: 0.453 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:202 Resp: 8785
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.3 14.1 21.1

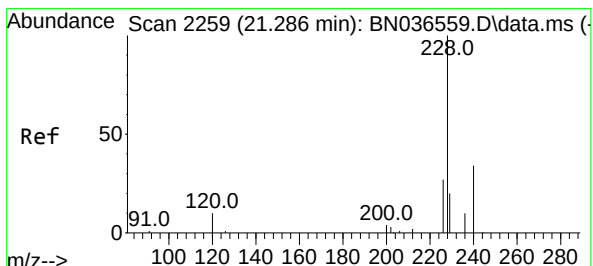
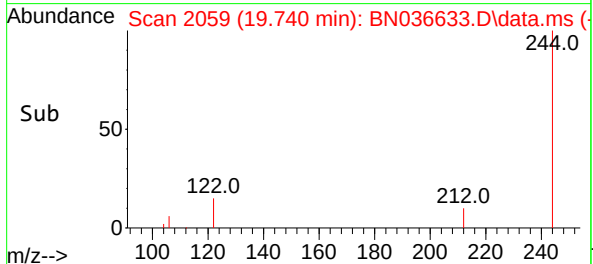
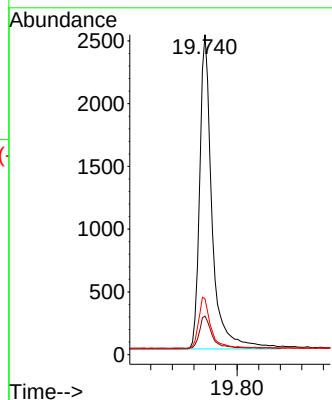
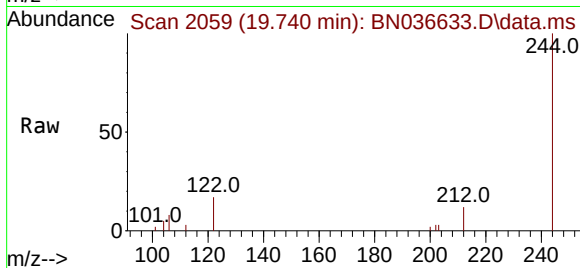




#31
Terphenyl-d14
Concen: 0.422 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

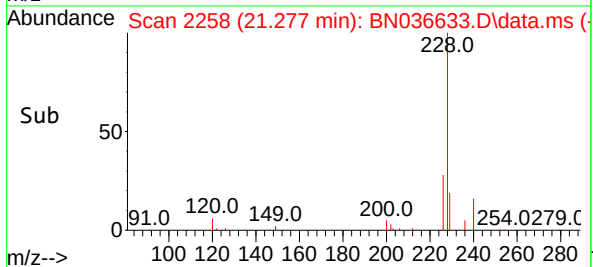
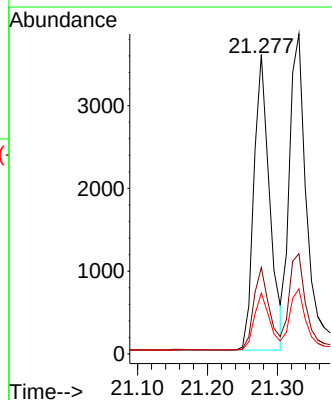
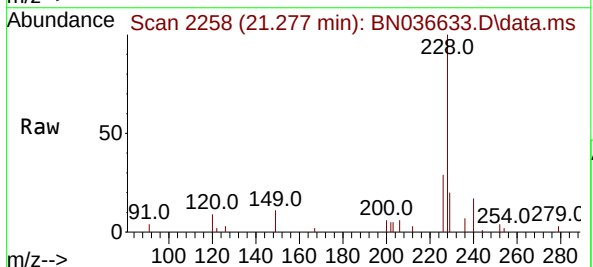
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

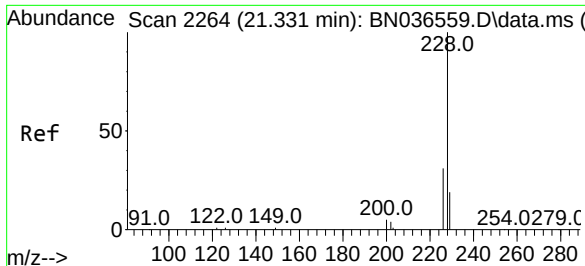
Tgt Ion:244 Resp: 4008
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Tgt Ion:228 Resp: 5572
Ion Ratio Lower Upper
228 100
226 28.9 22.5 33.7
229 20.3 16.6 25.0





#33

Chrysene

Concen: 0.445 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

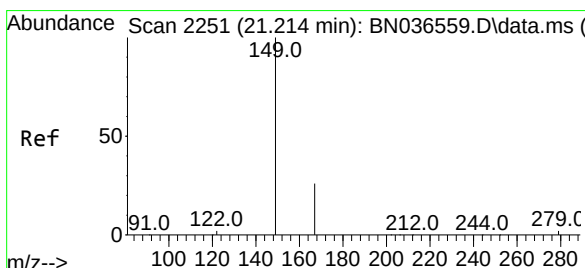
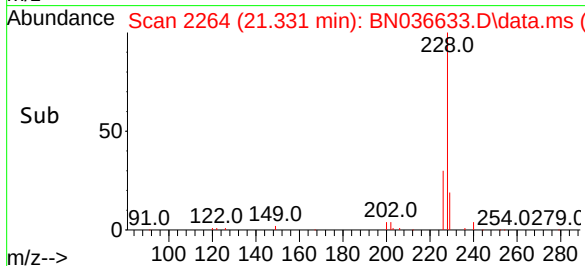
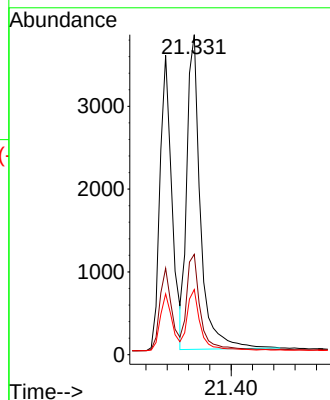
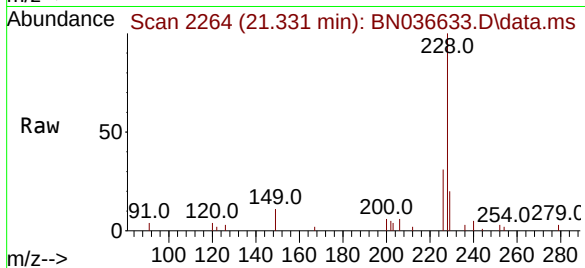
Tgt Ion:228 Resp: 6707

Ion Ratio Lower Upper

228 100

226 31.4 25.3 37.9

229 20.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.451 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

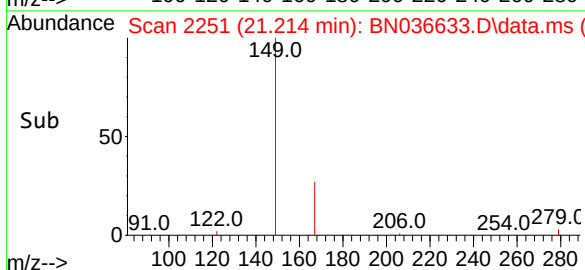
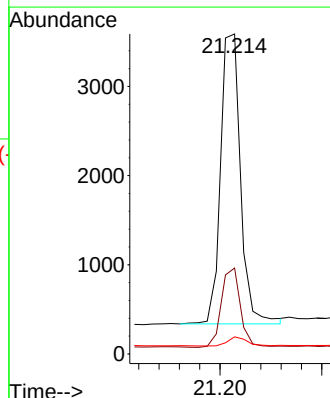
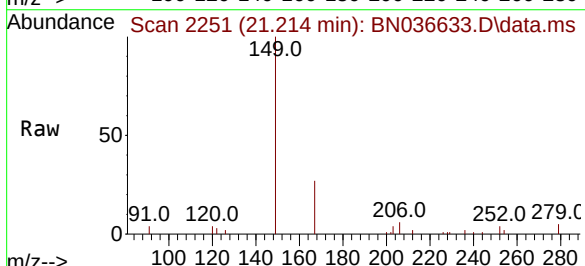
Tgt Ion:149 Resp: 4427

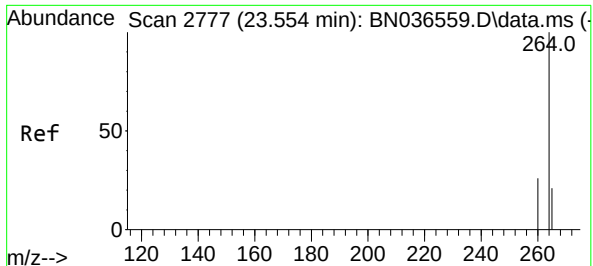
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.2 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.543 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

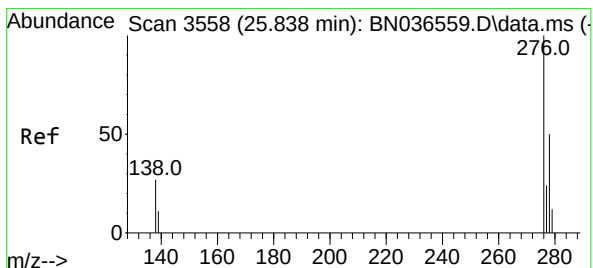
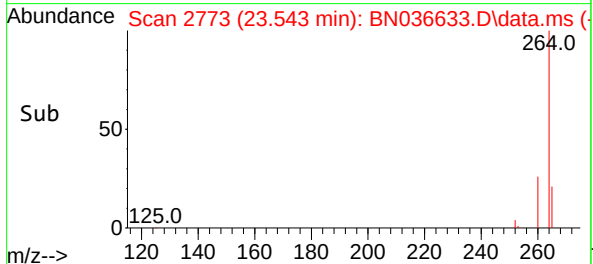
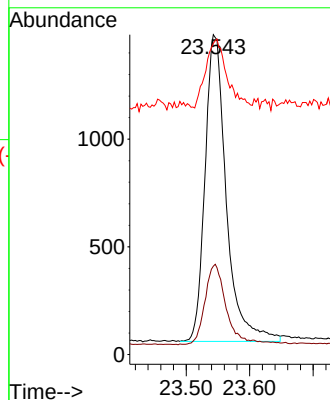
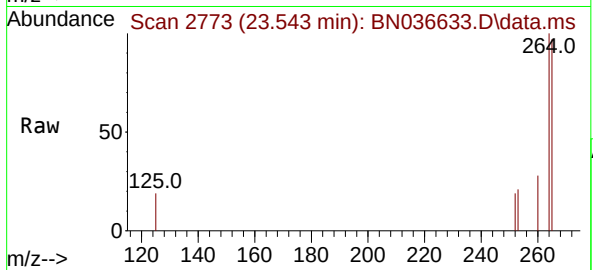
Tgt Ion:264 Resp: 3322

Ion Ratio Lower Upper

264 100

260 27.6 22.6 33.8

265 97.3 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.434 ng

RT: 25.823 min Scan# 3553

Delta R.T. -0.014 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

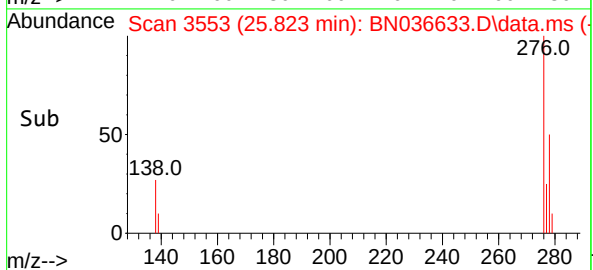
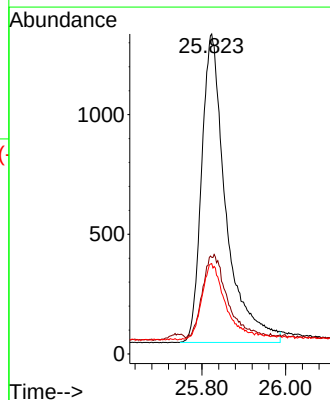
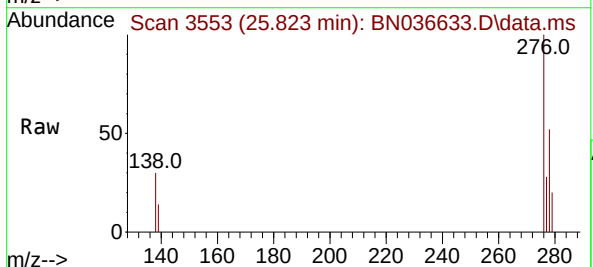
Tgt Ion:276 Resp: 5201

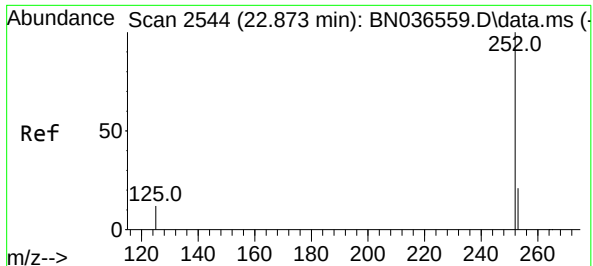
Ion Ratio Lower Upper

276 100

138 26.9 23.4 35.2

277 24.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.461 ng

RT: 22.867 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

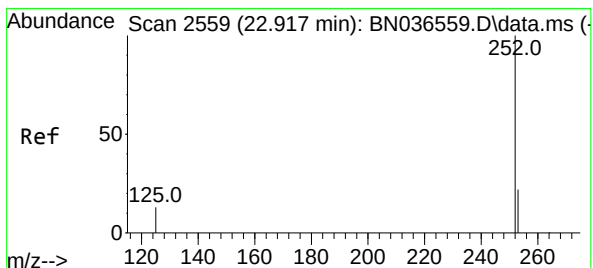
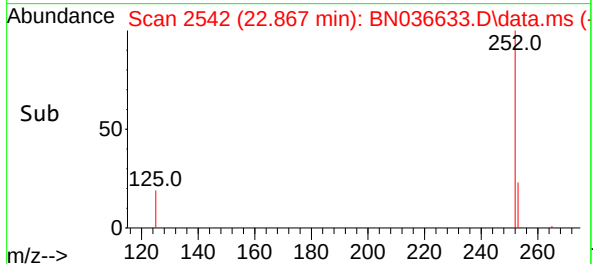
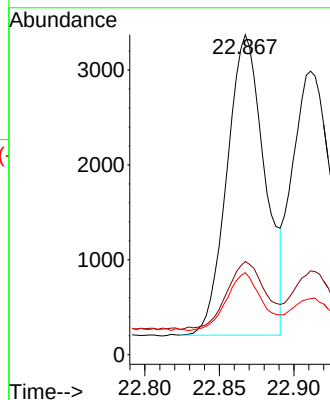
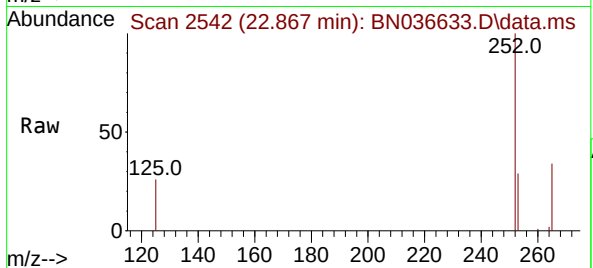
Tgt Ion:252 Resp: 5573

Ion Ratio Lower Upper

252 100

253 29.1 23.9 35.9

125 25.6 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.454 ng

RT: 22.911 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

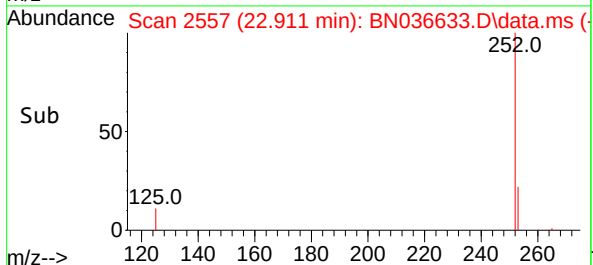
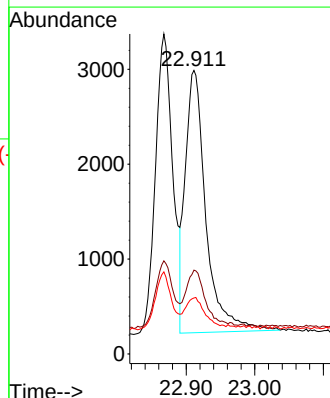
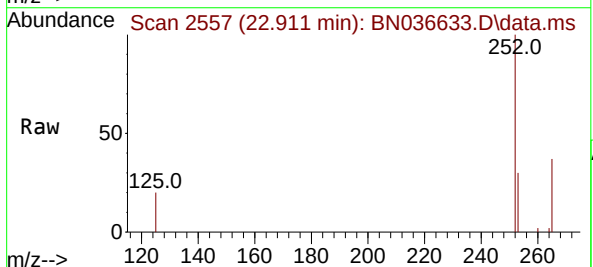
Tgt Ion:252 Resp: 5760

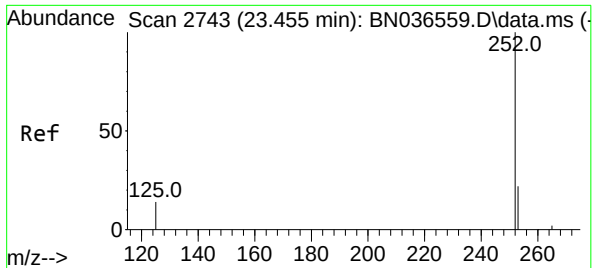
Ion Ratio Lower Upper

252 100

253 29.6 24.6 36.8

125 19.7 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.465 ng

RT: 23.449 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

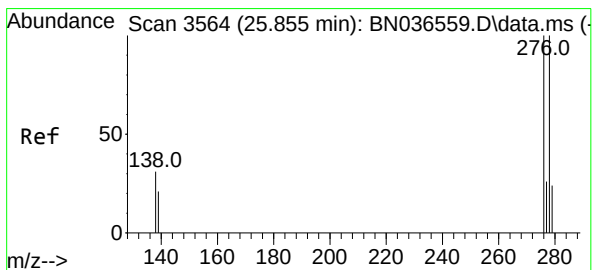
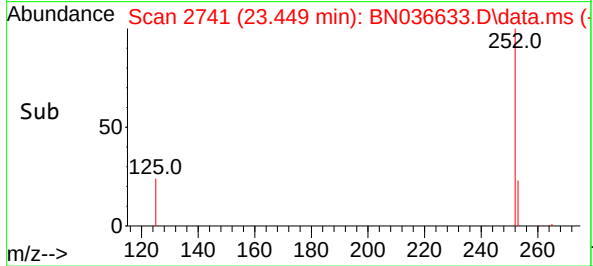
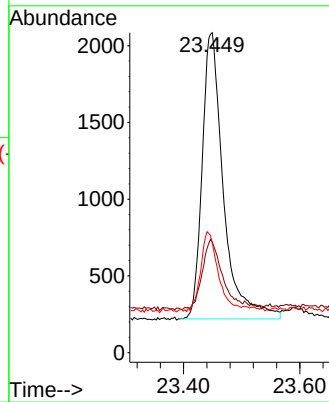
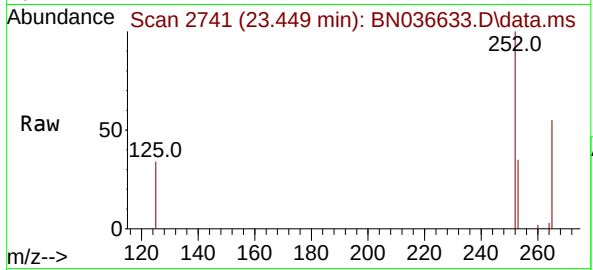
Tgt Ion:252 Resp: 4737

Ion Ratio Lower Upper

252 100

253 34.5 27.8 41.8

125 34.3 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

RT: 25.841 min Scan# 3559

Delta R.T. -0.014 min

Lab File: BN036633.D

Acq: 15 Mar 2025 08:35

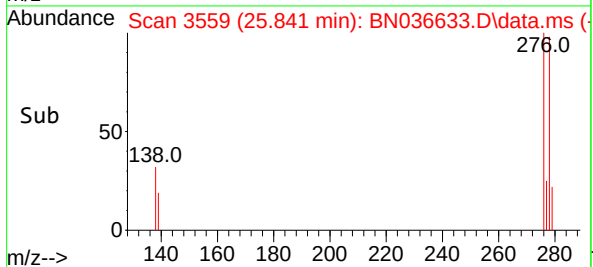
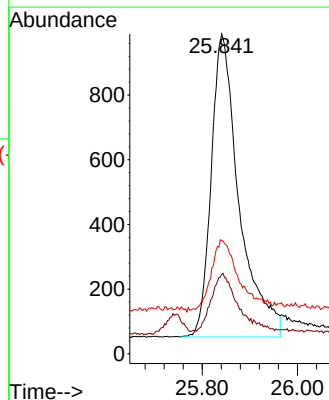
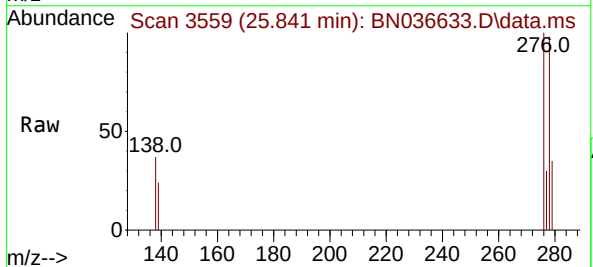
Tgt Ion:278 Resp: 3815

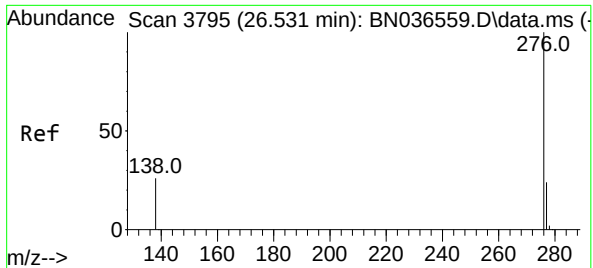
Ion Ratio Lower Upper

278 100

139 24.9 20.8 31.2

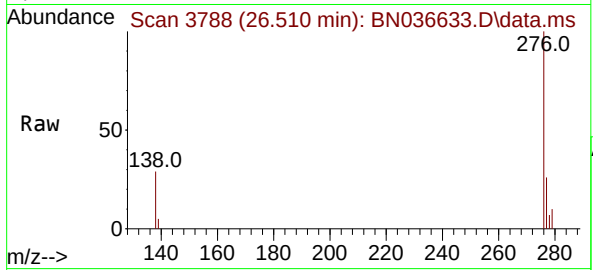
279 35.4 28.8 43.2



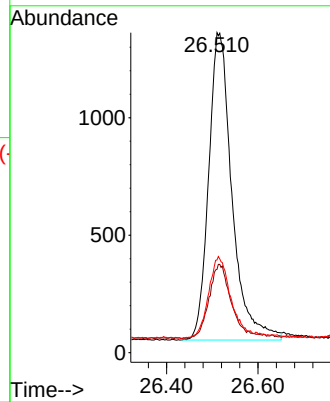
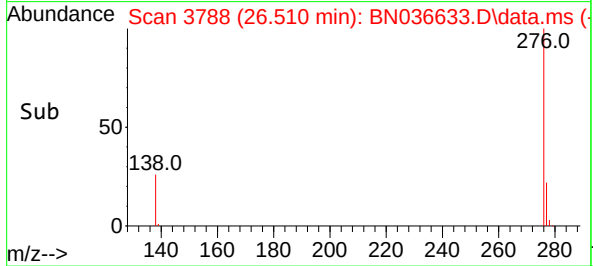


#41
Benzo(g,h,i)perylene
Concen: 0.434 ng
RT: 26.510 min Scan# 31
Delta R.T. -0.020 min
Lab File: BN036633.D
Acq: 15 Mar 2025 08:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 4632
Ion Ratio Lower Upper
276 100
277 26.1 22.2 33.4
138 29.0 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036633.D
 Acq On : 15 Mar 2025 08:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 17 00:34:16 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	93	0.00
2	1,4-Dioxane	0.444	0.508	-14.4	95	0.00
3	n-Nitrosodimethylamine	0.898	1.002	-11.6	100	0.00
4 S	2-Fluorophenol	0.932	0.969	-4.0	92	0.00
5 S	Phenol-d6	1.152	1.163	-1.0	96	0.00
6	bis(2-Chloroethyl)ether	1.190	1.205	-1.3	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8 S	Nitrobenzene-d5	0.435	0.413	5.1	101	-0.01
9	Naphthalene	1.177	1.192	-1.3	100	-0.01
10	Hexachlorobutadiene	0.277	0.284	-2.5	98	-0.01
11 SURR	2-Methylnaphthalene-d10	0.595	0.597	-0.3	100	0.00
12	2-Methylnaphthalene	0.749	0.757	-1.1	100	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	-0.01
14 S	2,4,6-Tribromophenol	0.182	0.181	0.5	97	0.00
15 S	2-Fluorobiphenyl	2.327	2.306	0.9	96	0.00
16	Acenaphthylene	1.888	1.962	-3.9	101	0.00
17	Acenaphthene	1.236	1.288	-4.2	101	-0.01
18	Fluorene	1.672	1.734	-3.7	98	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	-0.01
20	4,6-Dinitro-2-methylphenol	0.086	0.072	16.3	92	0.00
21	4-Bromophenyl-phenylether	0.251	0.271	-8.0	96	0.00
22	Hexachlorobenzene	0.303	0.334	-10.2	97	0.00
23	Atrazine	0.201	0.217	-8.0	99	0.00
24	Pentachlorophenol	0.138	0.132	4.3	94	-0.01
25	Phenanthrene	1.200	1.325	-10.4	100	0.00
26	Anthracene	1.083	1.167	-7.8	99	-0.01
27 SURR	Fluoranthene-d10	1.025	1.103	-7.6	96	0.00
28	Fluoranthene	1.348	1.486	-10.2	100	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	96	0.00
30	Pyrene	1.956	2.216	-13.3	100	0.00
31 S	Terphenyl-d14	0.958	1.011	-5.5	95	0.00
32	Benzo(a)anthracene	1.391	1.406	-1.1	94	0.00
33	Chrysene	1.520	1.692	-11.3	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	1.117	-12.8	103	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	-0.01
36	Indeno(1,2,3-cd)pyrene	1.444	1.566	-8.4	95	-0.01
37	Benzo(b)fluoranthene	1.456	1.678	-15.2	102	0.00
38	Benzo(k)fluoranthene	1.527	1.734	-13.6	100	0.00
39 C	Benzo(a)pyrene	1.226	1.426	-16.3	103	0.00
40	Dibenzo(a,h)anthracene	1.124	1.148	-2.1	93	-0.01
41	Benzo(g,h,i)perylene	1.286	1.394	-8.4	95	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036633.D
 Acq On : 15 Mar 2025 08:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 17 00:34:16 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	93	0.00
2	1,4-Dioxane	0.400	0.458	-14.5	95	0.00
3	n-Nitrosodimethylamine	0.400	0.447	-11.7	100	0.00
4 S	2-Fluorophenol	0.400	0.416	-4.0	92	0.00
5 S	Phenol-d6	0.400	0.404	-1.0	96	0.00
6	bis(2-Chloroethyl)ether	0.400	0.405	-1.3	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8 S	Nitrobenzene-d5	0.400	0.379	5.3	101	-0.01
9	Naphthalene	0.400	0.405	-1.3	100	-0.01
10	Hexachlorobutadiene	0.400	0.411	-2.7	98	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.401	-0.3	100	0.00
12	2-Methylnaphthalene	0.400	0.404	-1.0	100	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.400	0.0	97	0.00
15 S	2-Fluorobiphenyl	0.400	0.396	1.0	96	0.00
16	Acenaphthylene	0.400	0.416	-4.0	101	0.00
17	Acenaphthene	0.400	0.417	-4.2	101	-0.01
18	Fluorene	0.400	0.415	-3.7	98	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.429	-7.2	92	0.00
21	4-Bromophenyl-phenylether	0.400	0.433	-8.2	96	0.00
22	Hexachlorobenzene	0.400	0.441	-10.2	97	0.00
23	Atrazine	0.400	0.432	-8.0	99	0.00
24	Pentachlorophenol	0.400	0.381	4.8	94	-0.01
25	Phenanthrene	0.400	0.442	-10.5	100	0.00
26	Anthracene	0.400	0.431	-7.7	99	-0.01
27 SURR	Fluoranthene-d10	0.400	0.430	-7.5	96	0.00
28	Fluoranthene	0.400	0.441	-10.2	100	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	96	0.00
30	Pyrene	0.400	0.453	-13.2	100	0.00
31 S	Terphenyl-d14	0.400	0.422	-5.5	95	0.00
32	Benzo(a)anthracene	0.400	0.404	-1.0	94	0.00
33	Chrysene	0.400	0.445	-11.2	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.451	-12.7	103	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.434	-8.5	95	-0.01
37	Benzo(b)fluoranthene	0.400	0.461	-15.3	102	0.00
38	Benzo(k)fluoranthene	0.400	0.454	-13.5	100	0.00
39 C	Benzo(a)pyrene	0.400	0.465	-16.3	103	0.00
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	93	-0.01
41	Benzo(g,h,i)perylene	0.400	0.434	-8.5	95	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

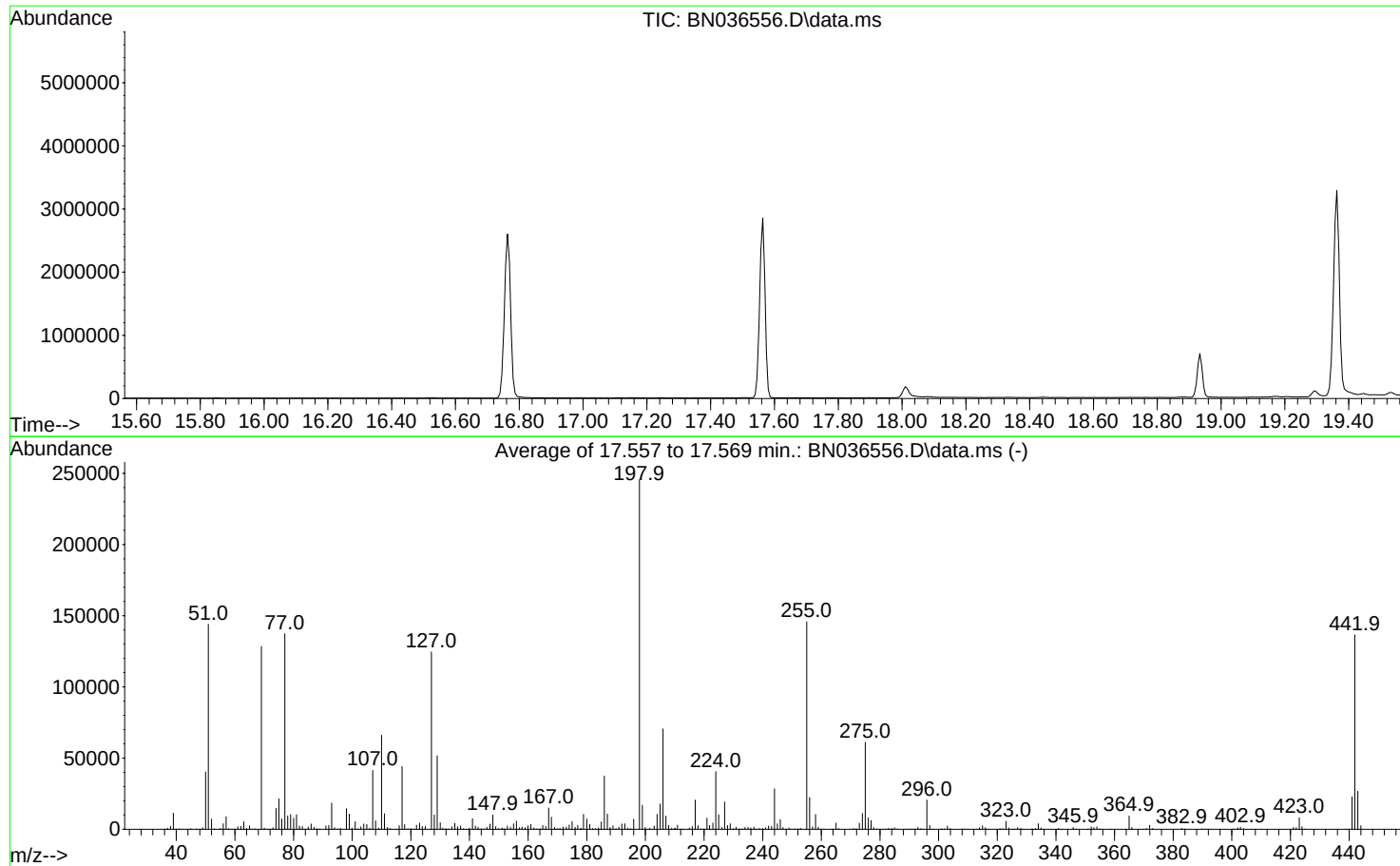
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

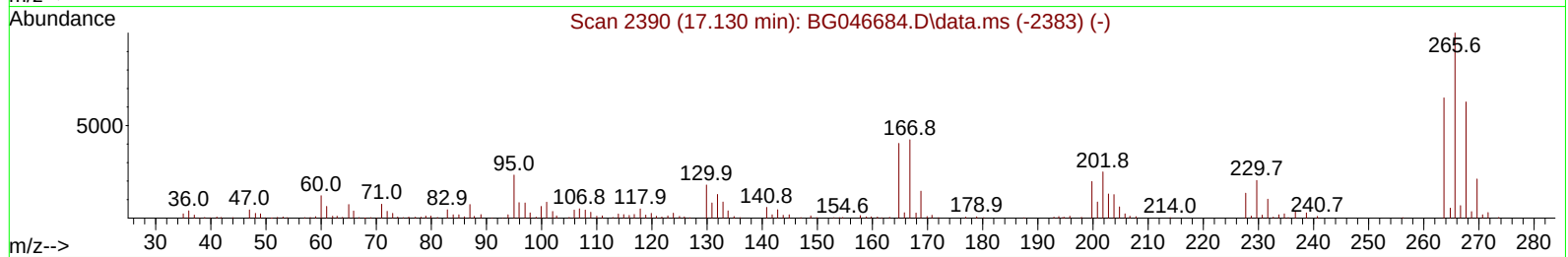
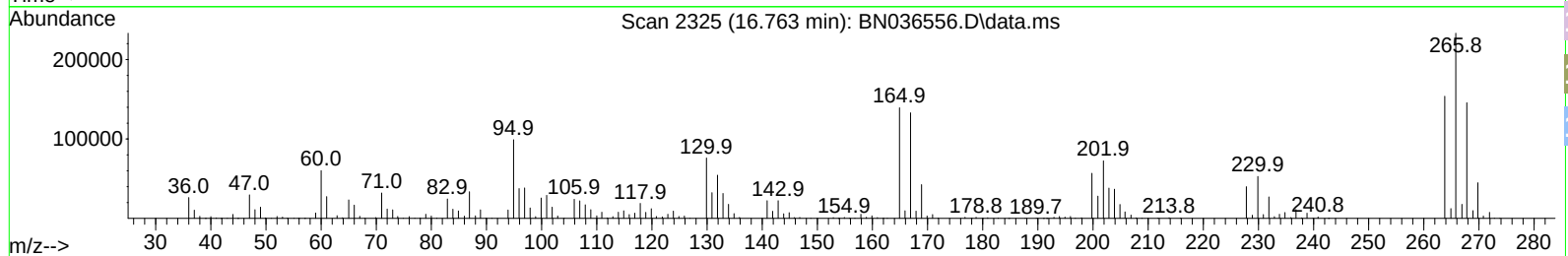
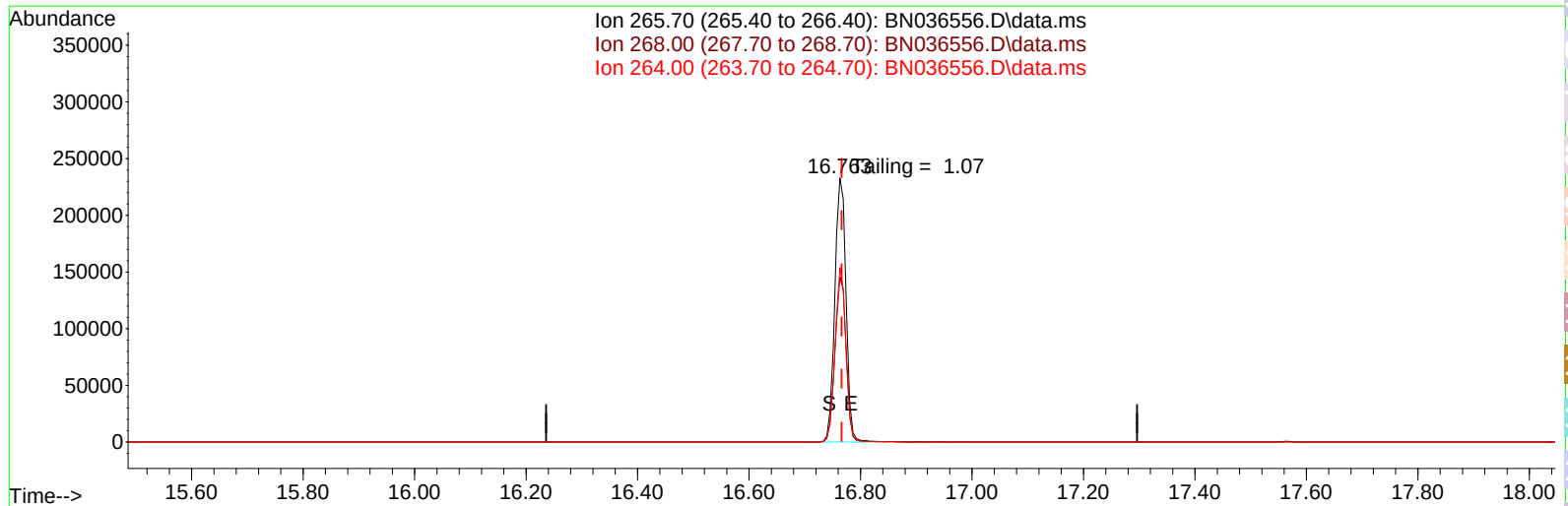
DDT Breakdown

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

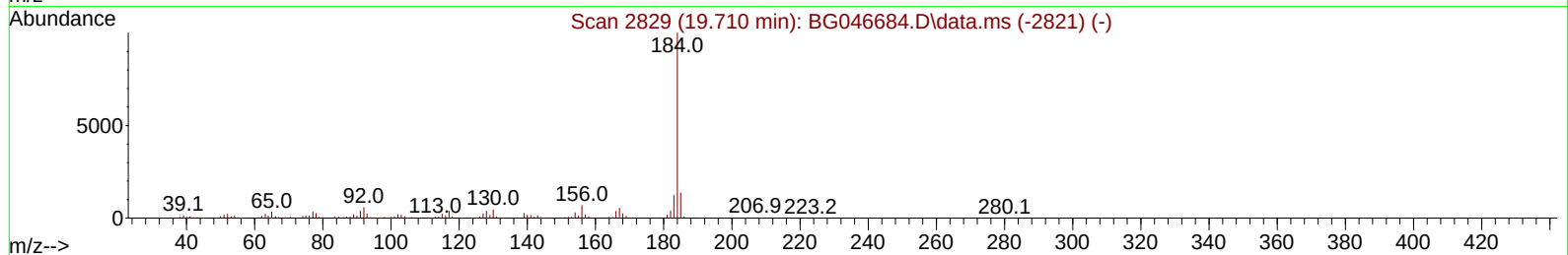
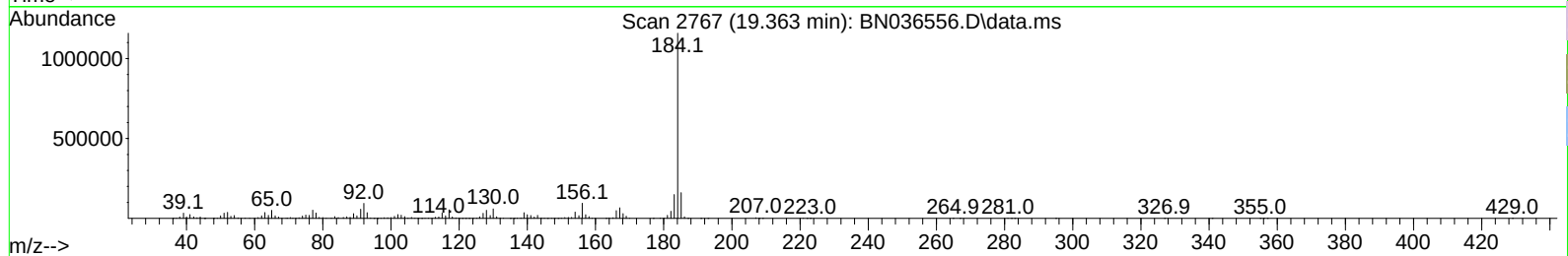
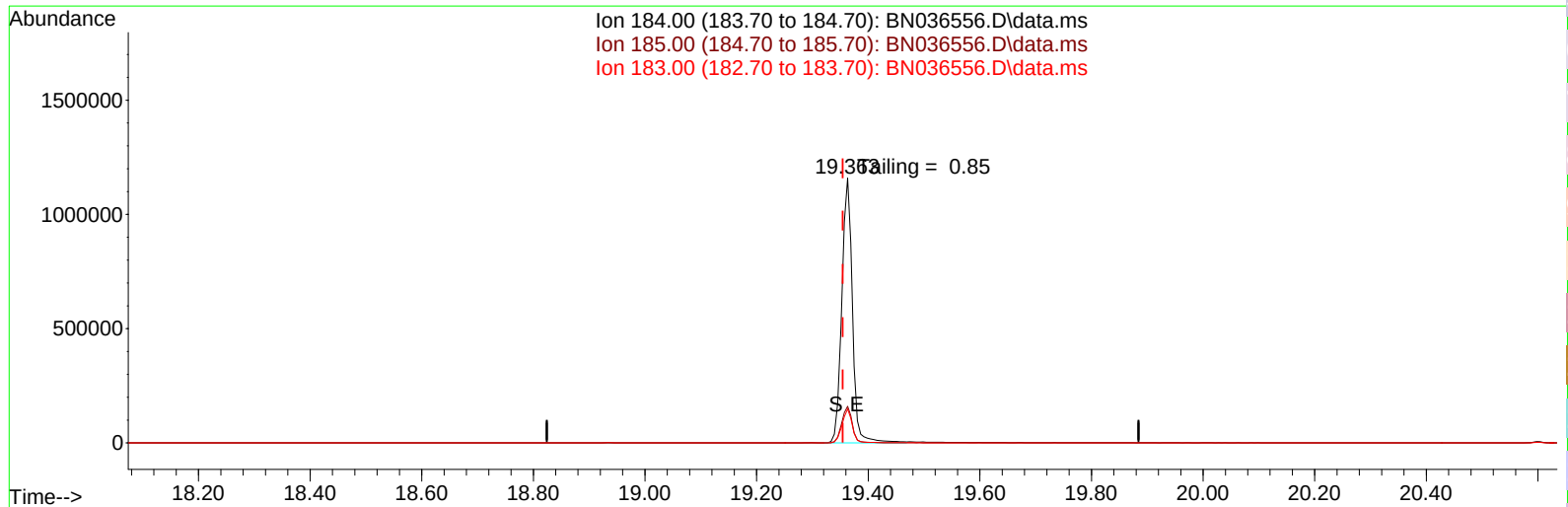
response 323613

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

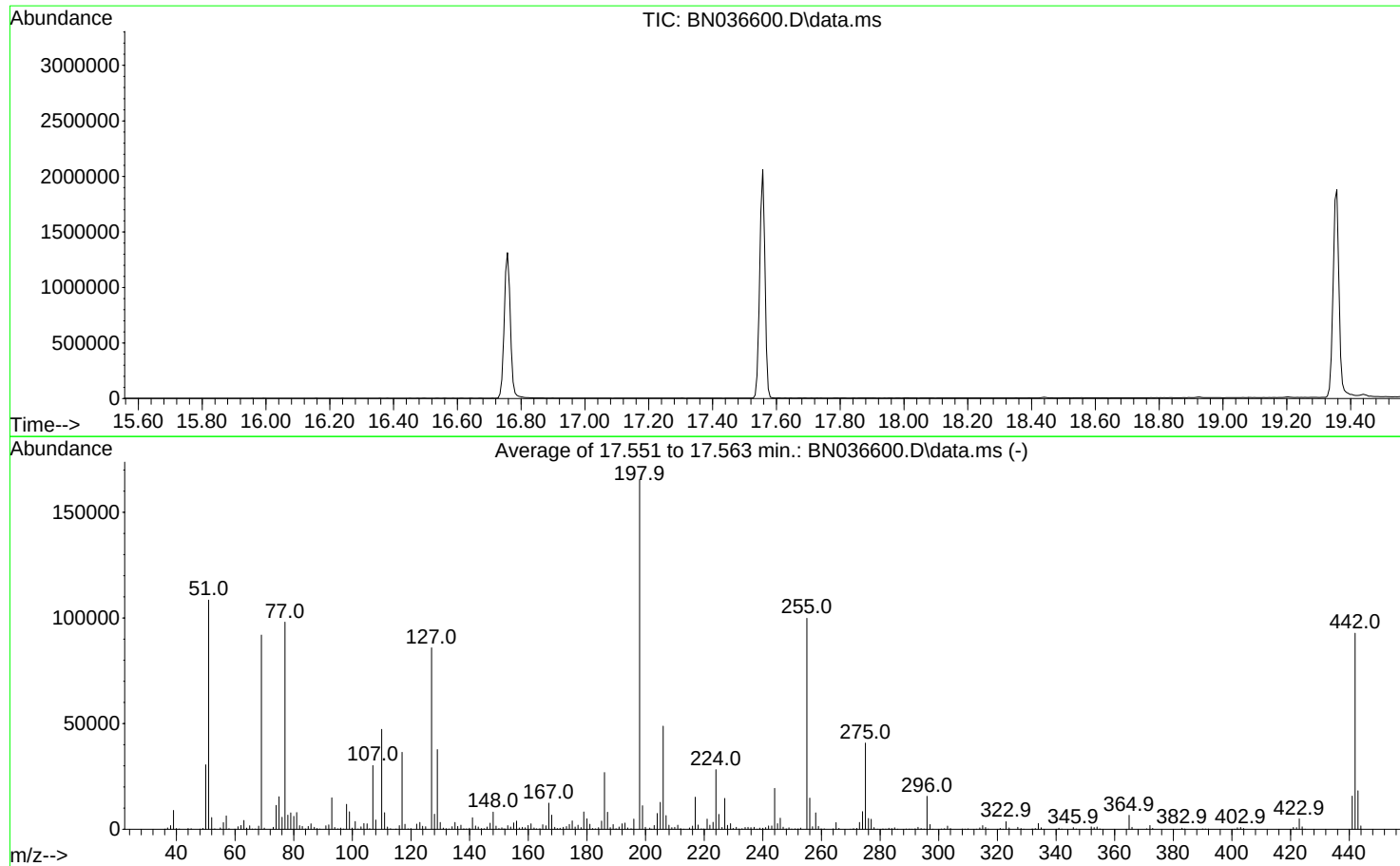
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
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 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	65.5	108445	PASS
68	69	0.00	2	1.6	1504	PASS
69	198	0.00	100	55.5	91899	PASS
70	69	0.00	2	0.6	558	PASS
127	198	10	80	51.9	85880	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	165483	PASS
199	198	5	9	6.7	11147	PASS
275	198	10	60	24.7	40816	PASS
365	198	1	100	4.0	6612	PASS
441	198	0.01	100	9.5	15668	PASS
442	442	50	100	100.0	92771	PASS
443	442	15	24	19.7	18237	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

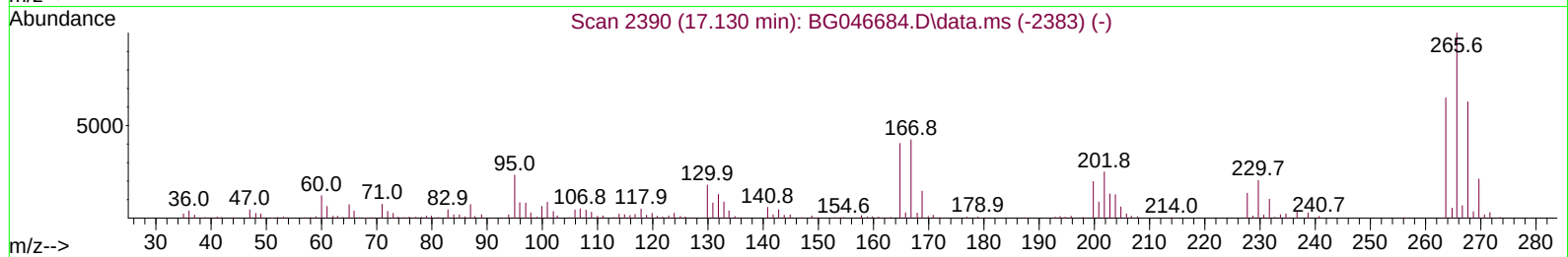
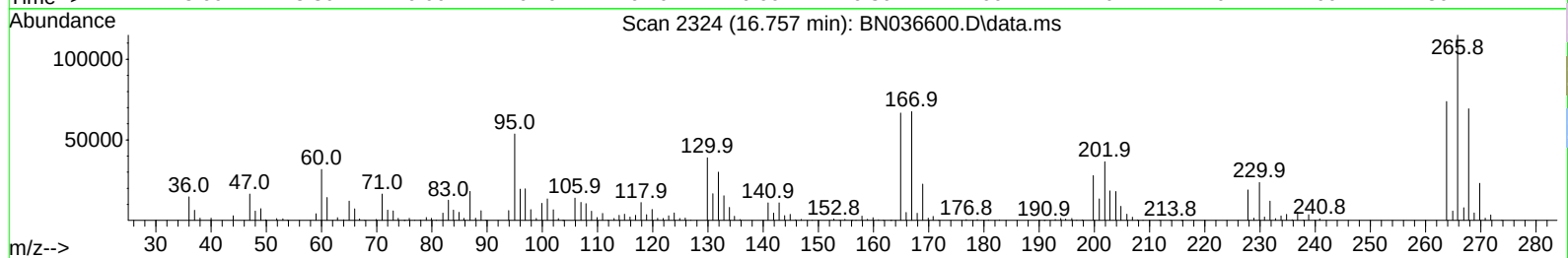
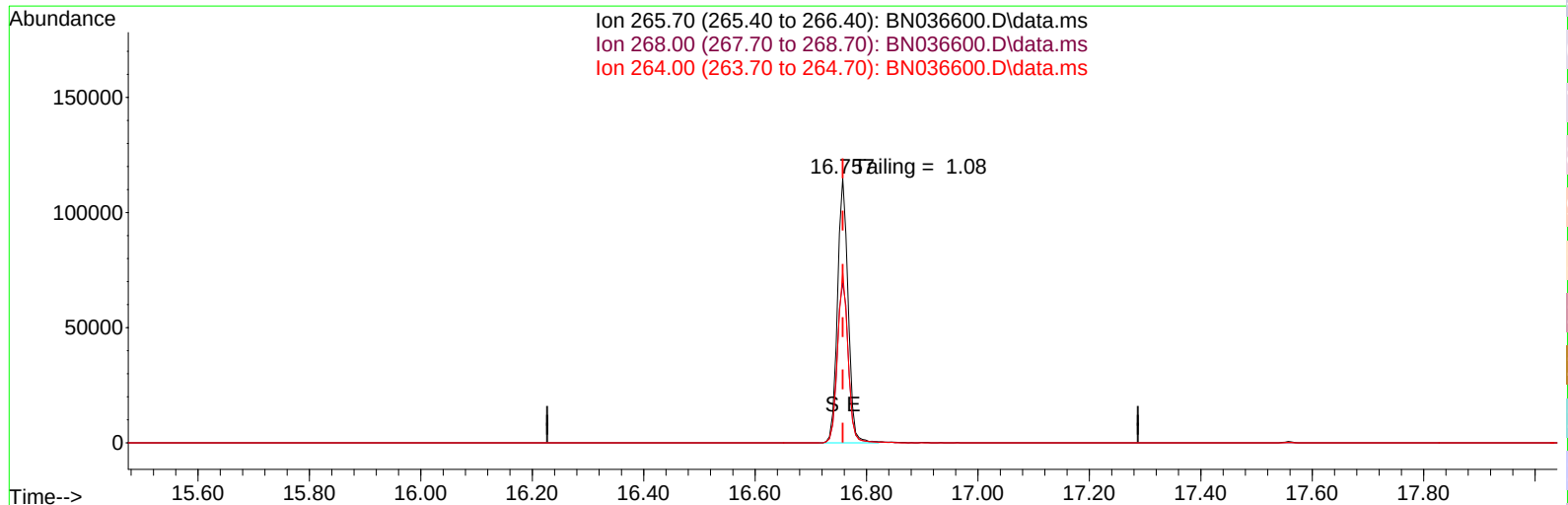
DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	<u>BN036600.D</u>
Compound Name	Response	Retention Time
DDT	534890	20.592
DDD	6130	20.204
DDE	455	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6585	541475	1.22

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:26:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration



TIC: BN036600.D\data.ms

(70) Pentachlorophenol (C)

16.757min (0.000) 18451.01 ng

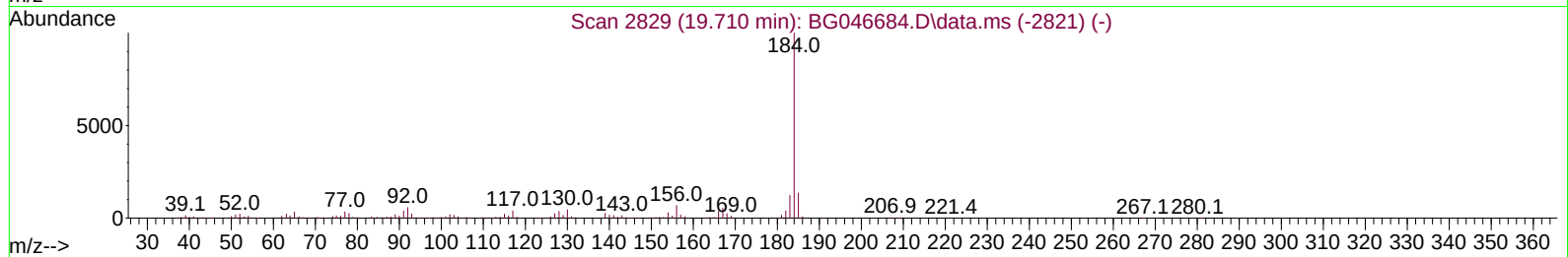
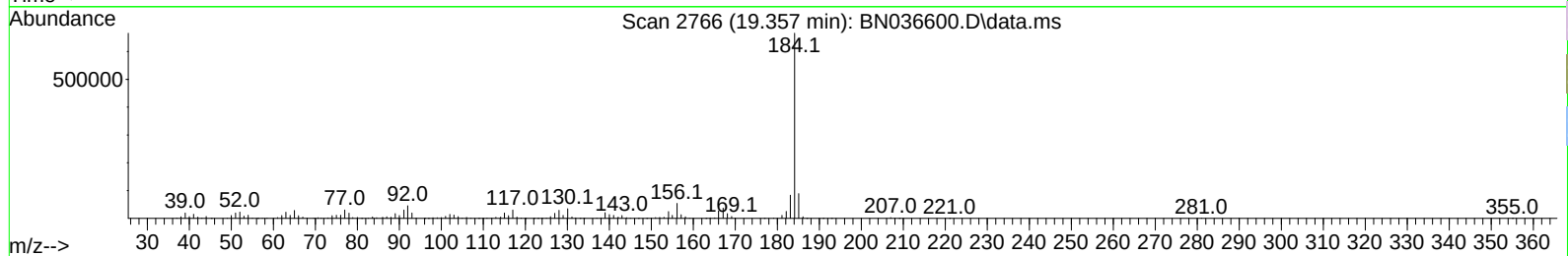
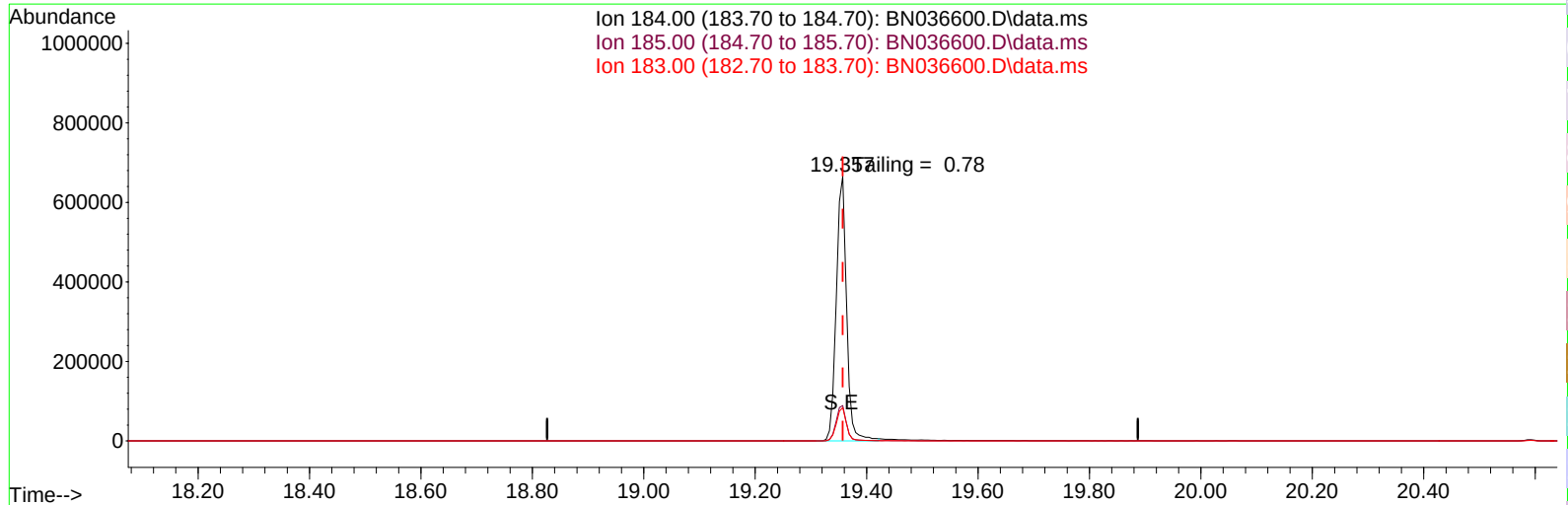
response 152618

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.30
264.00	61.60	64.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036600.D
Acq On : 14 Mar 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:26:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration



TIC: BN036600.D\data.ms

(77) Benzidine

19.357min (0.000) 0.00 ng

response 868744

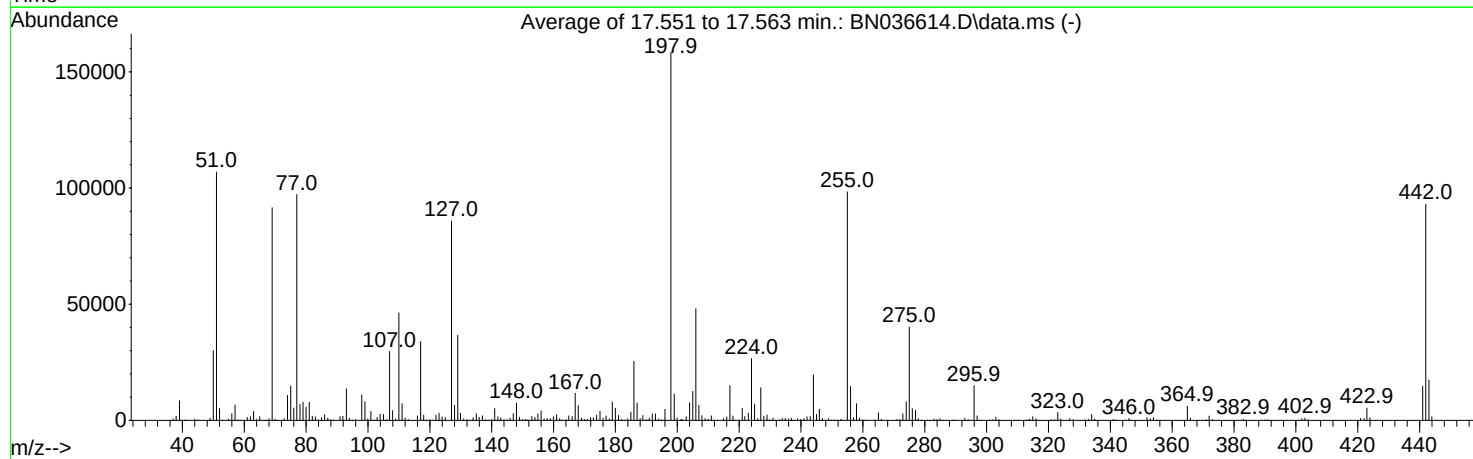
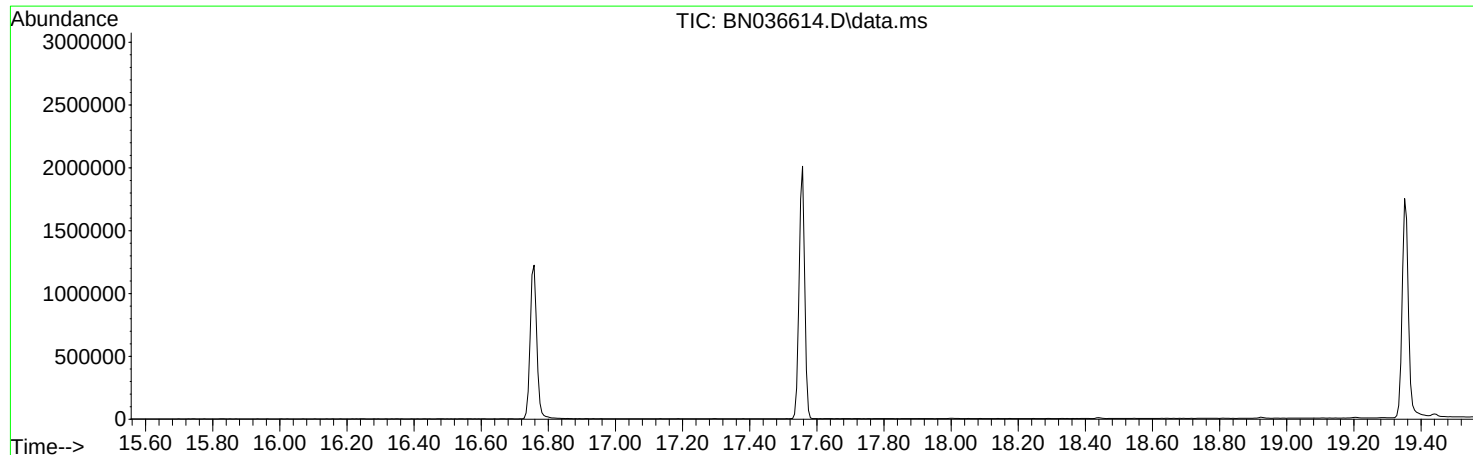
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.38
183.00	13.20	12.57
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036614.D
Acq On : 14 Mar 2025 19:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 8 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 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.5	106904	PASS
68	69	0.00	2	0.9	793	PASS
69	198	0.00	100	57.8	91549	PASS
70	69	0.00	2	0.6	519	PASS
127	198	10	80	54.2	85851	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158365	PASS
199	198	5	9	7.1	11286	PASS
275	198	10	60	25.4	40192	PASS
365	198	1	100	3.8	6077	PASS
441	198	0.01	100	9.3	14651	PASS
442	442	50	100	100.0	93083	PASS
443	442	15	24	18.6	17354	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	<u>BN036614.D</u>
Compound Name	Response	Retention Time
DDT	524370	20.592
DDD	5883	20.204
DDE	253	19.639
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6136	530506	1.16

Instrument :
BNA_N
ClientSampleId :
DFTPP

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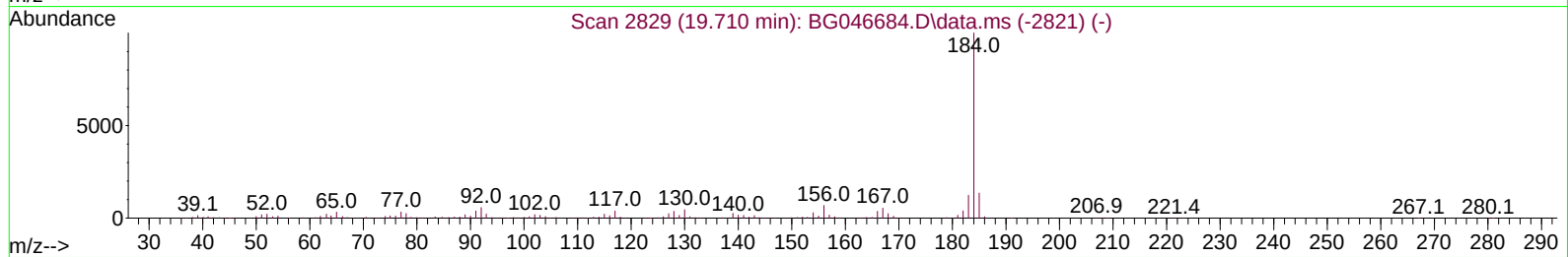
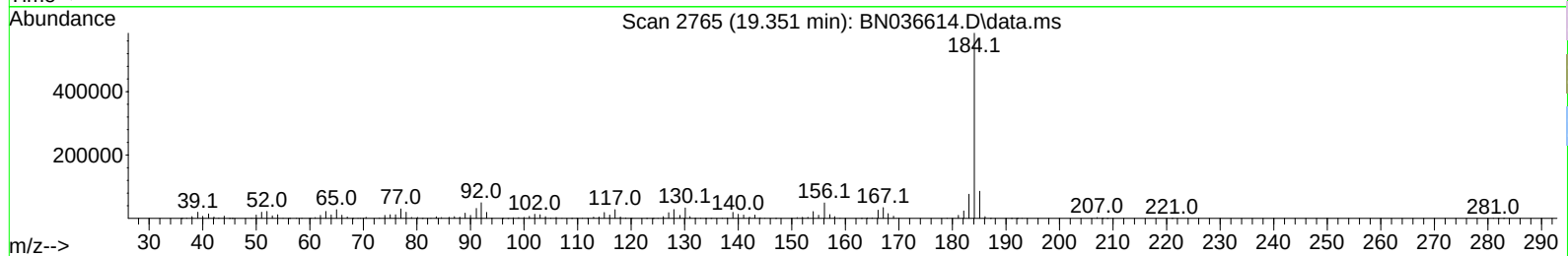
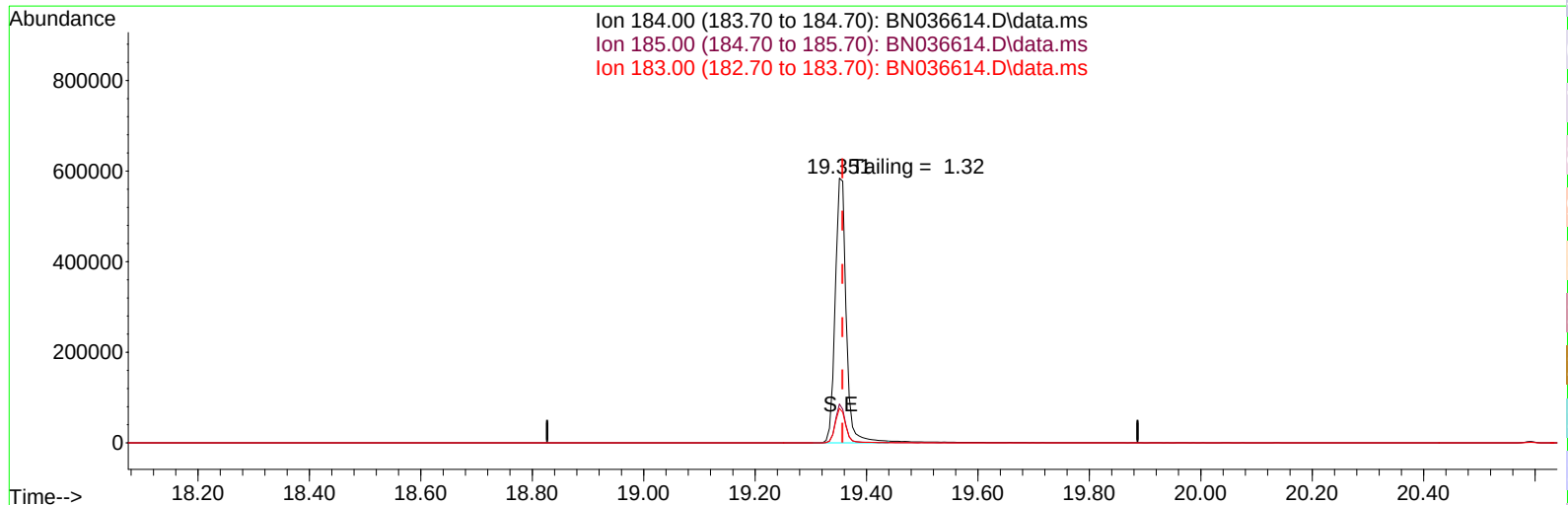
17

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036614.D
Acq On : 14 Mar 2025 19:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 15 00:28:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 15 00:26:30 2025
Response via : Initial Calibration



TIC: BN036614.D\data.ms

(77) Benzidine

19.351min (-0.006) 0.00 ng

response 817261

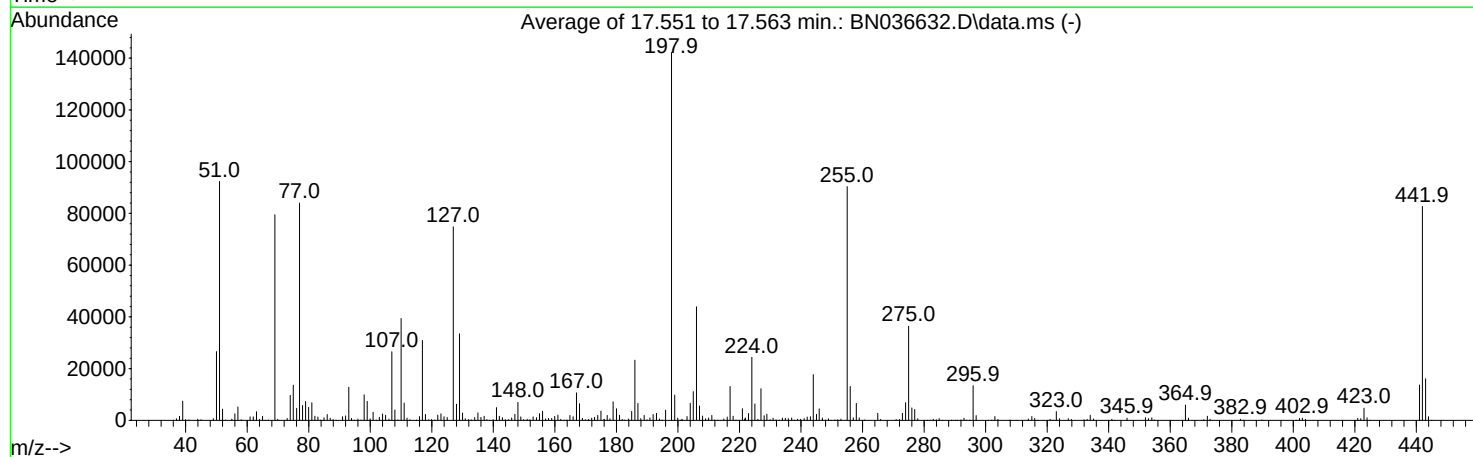
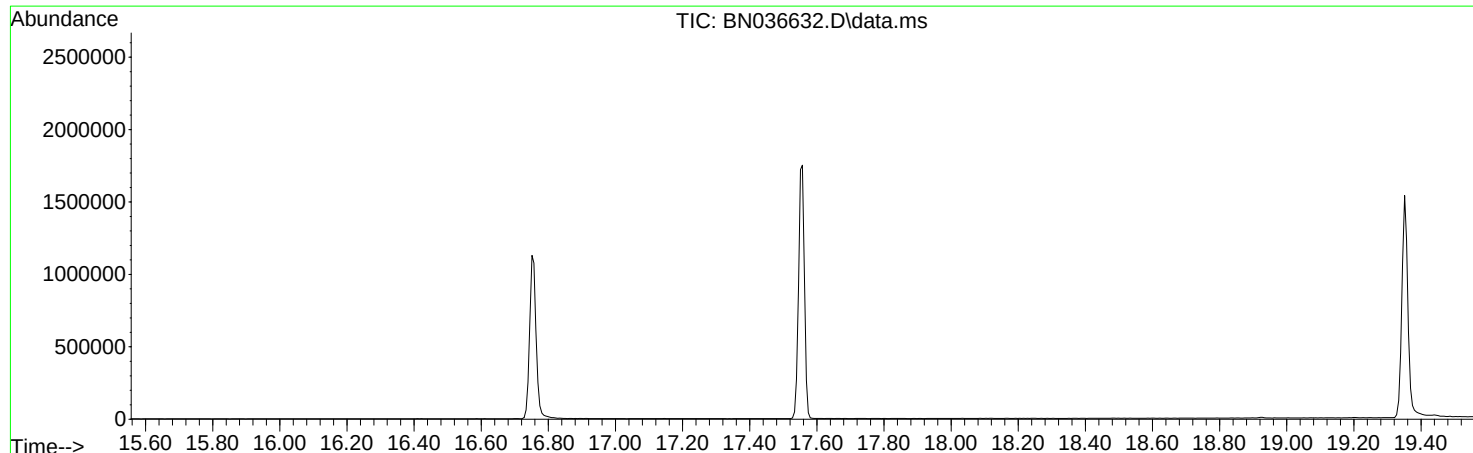
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.66
183.00	13.20	13.06
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 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 2459, 2460, 2461; Background Corrected with Scan 2452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.9	92315	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	55.9	79448	PASS
70	69	0.00	2	0.5	429	PASS
127	198	10	80	52.7	74864	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	142187	PASS
199	198	5	9	6.9	9755	PASS
275	198	10	60	25.6	36355	PASS
365	198	1	100	4.2	5967	PASS
441	198	0.01	100	9.6	13649	PASS
442	442	50	100	100.0	82675	PASS
443	442	15	24	19.5	16097	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

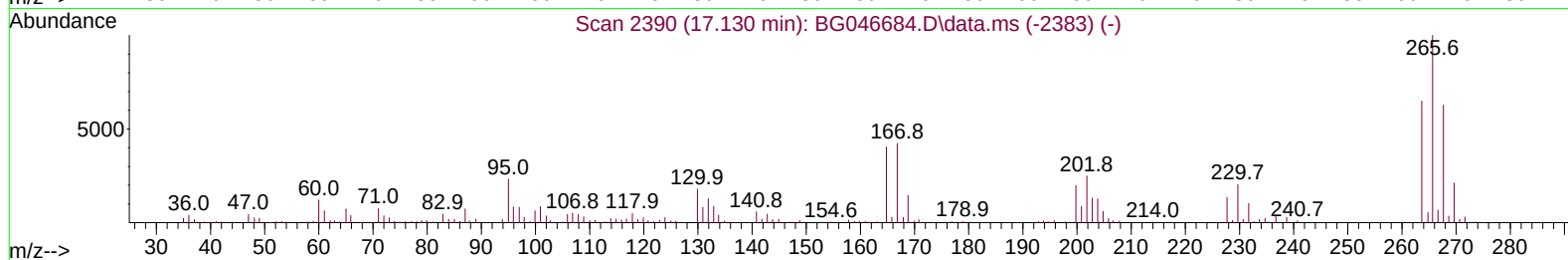
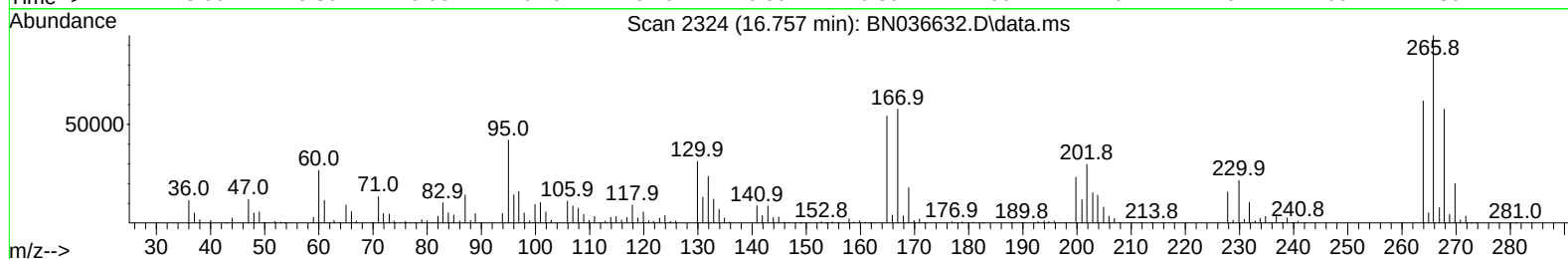
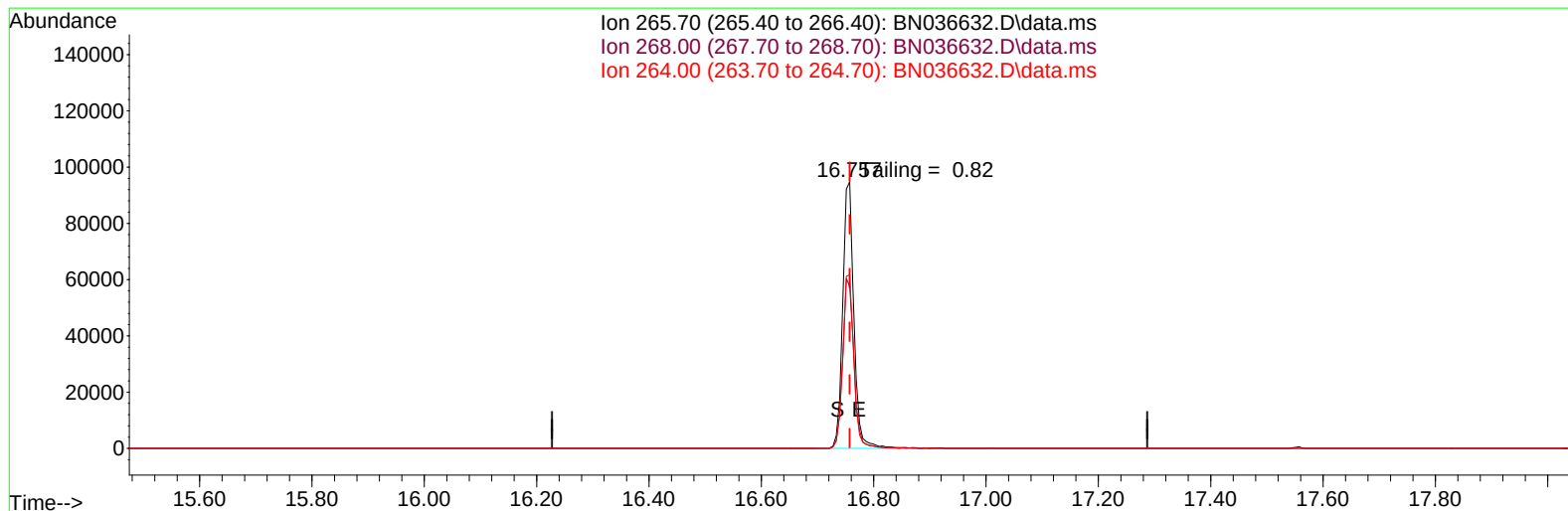
DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/14/2025	BNA_N	<u>BN036632.D</u>
Compound Name	Response	Retention Time
DDT	477266	20.592
DDD	6330	20.198
DDE	302	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6632	483898	1.37

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 01:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration



TIC: BN036632.D\data.ms

(70) Pentachlorophenol (C)

16.757min (0.000) 18589.43 ng

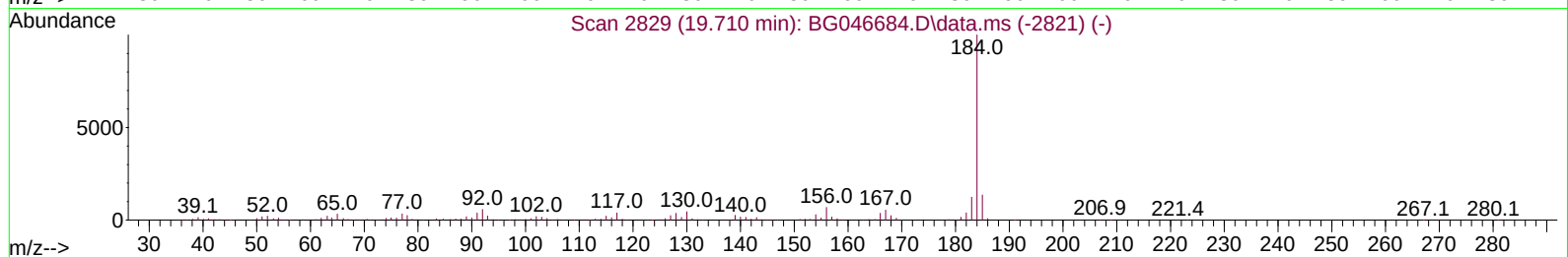
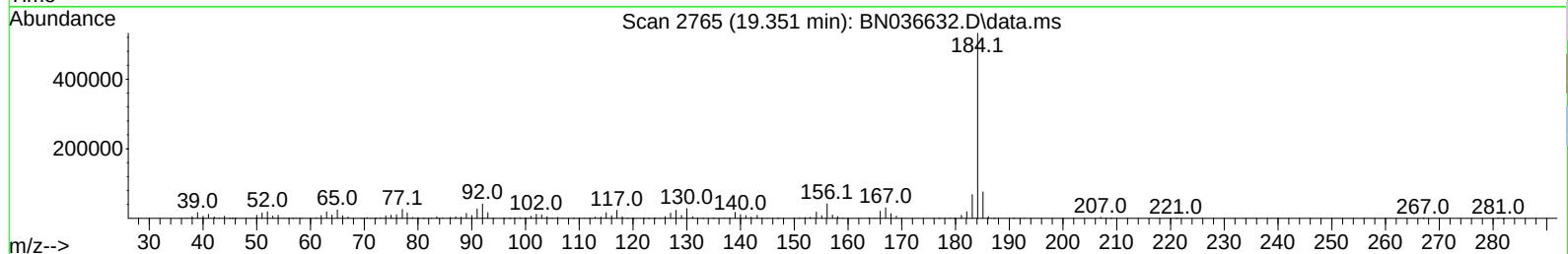
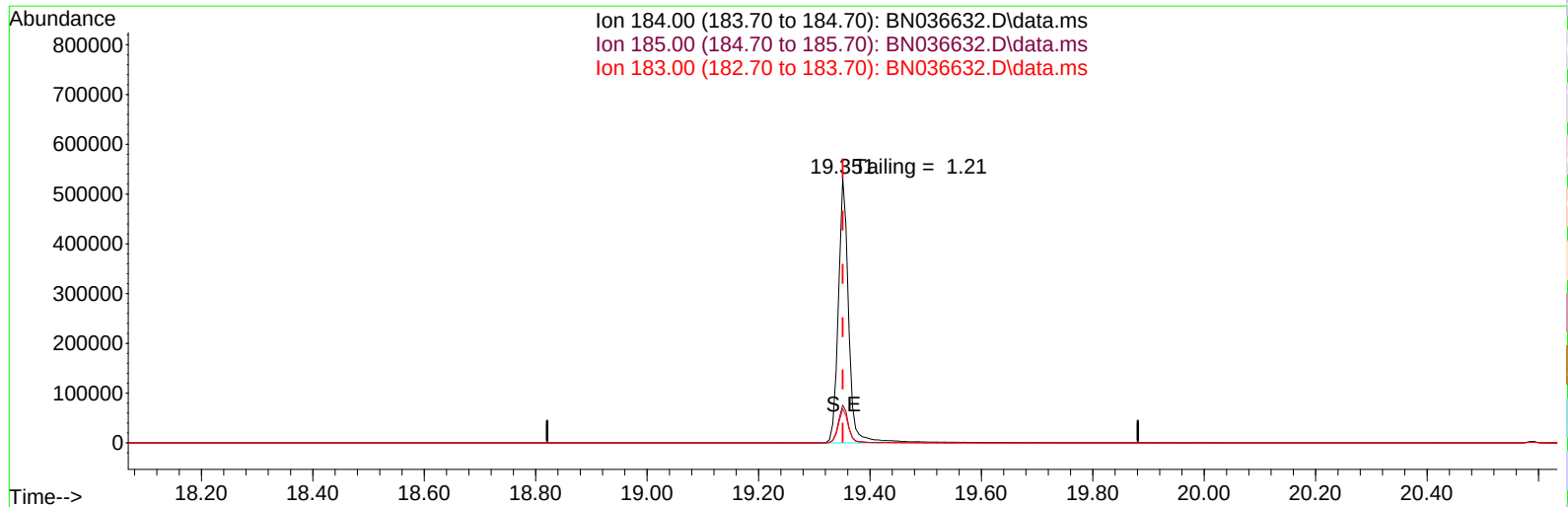
response 130859

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.74
264.00	61.60	65.13
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036632.D
Acq On : 15 Mar 2025 06:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 01:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration



TIC: BN036632.D\data.ms

(77) Benzidine

19.351min (0.000) 0.00 ng

response 681752

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.29
183.00	13.20	12.92
0.00	0.00	0.00

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	PB167128BL		SDG No.:	Q1502
Lab Sample ID:	PB167128BL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036634.D	1	03/13/25 12:40	03/15/25 09:11	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.040	U	0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
83-32-9	Acenaphthene	0.040	U	0.040	0.10	ug/L
86-73-7	Fluorene	0.040	U	0.040	0.10	ug/L
85-01-8	Phenanthrene	0.030	U	0.030	0.10	ug/L
120-12-7	Anthracene	0.040	U	0.040	0.10	ug/L
206-44-0	Fluoranthene	0.030	U	0.030	0.10	ug/L
129-00-0	Pyrene	0.030	U	0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.040	U	0.040	0.10	ug/L
218-01-9	Chrysene	0.040	U	0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.040	U	0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.050	U	0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.040	U	0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U	0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.050	U	0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		20 - 139	74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		27 - 154	74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		25 - 149	62%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	92%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2320		7.717		
1146-65-2	Naphthalene-d8	4860		10.519		
15067-26-2	Acenaphthene-d10	2640		14.366		
1517-22-2	Phenanthrene-d10	4470		17.124		
1719-03-5	Chrysene-d12	2910		21.304		
1520-96-3	Perylene-d12	2590		23.557		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167128BL	SDG No.:	Q1502
Lab Sample ID:	PB167128BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036634.D	1	03/13/25 12:40	03/15/25 09:11	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
Data File : BN036634.D
Acq On : 15 Mar 2025 09:11
Operator : RC/JU
Sample : PB167128BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 17 00:34:37 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	7.717	152	2323	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4860	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2639	0.400	ng	0.00
19) Phenanthrene-d10	17.124	188	4474	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	2905	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	2592	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2034	0.376	ng	0.00
5) Phenol-d6	6.901	99	1984	0.297	ng	0.00
8) Nitrobenzene-d5	8.896	82	1564	0.296	ng	0.02
11) 2-Methylnaphthalene-d10	12.131	152	2134	0.295	ng	0.02
14) 2,4,6-Tribromophenol	15.882	330	294	0.246	ng	0.02
15) 2-Fluorobiphenyl	13.008	172	3793m	0.247	ng	0.02
27) Fluoranthene-d10	19.150	212	4087	0.356	ng	0.00
31) Terphenyl-d14	19.749	244	2553	0.367	ng	0.00

Target Compounds Qvalue

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

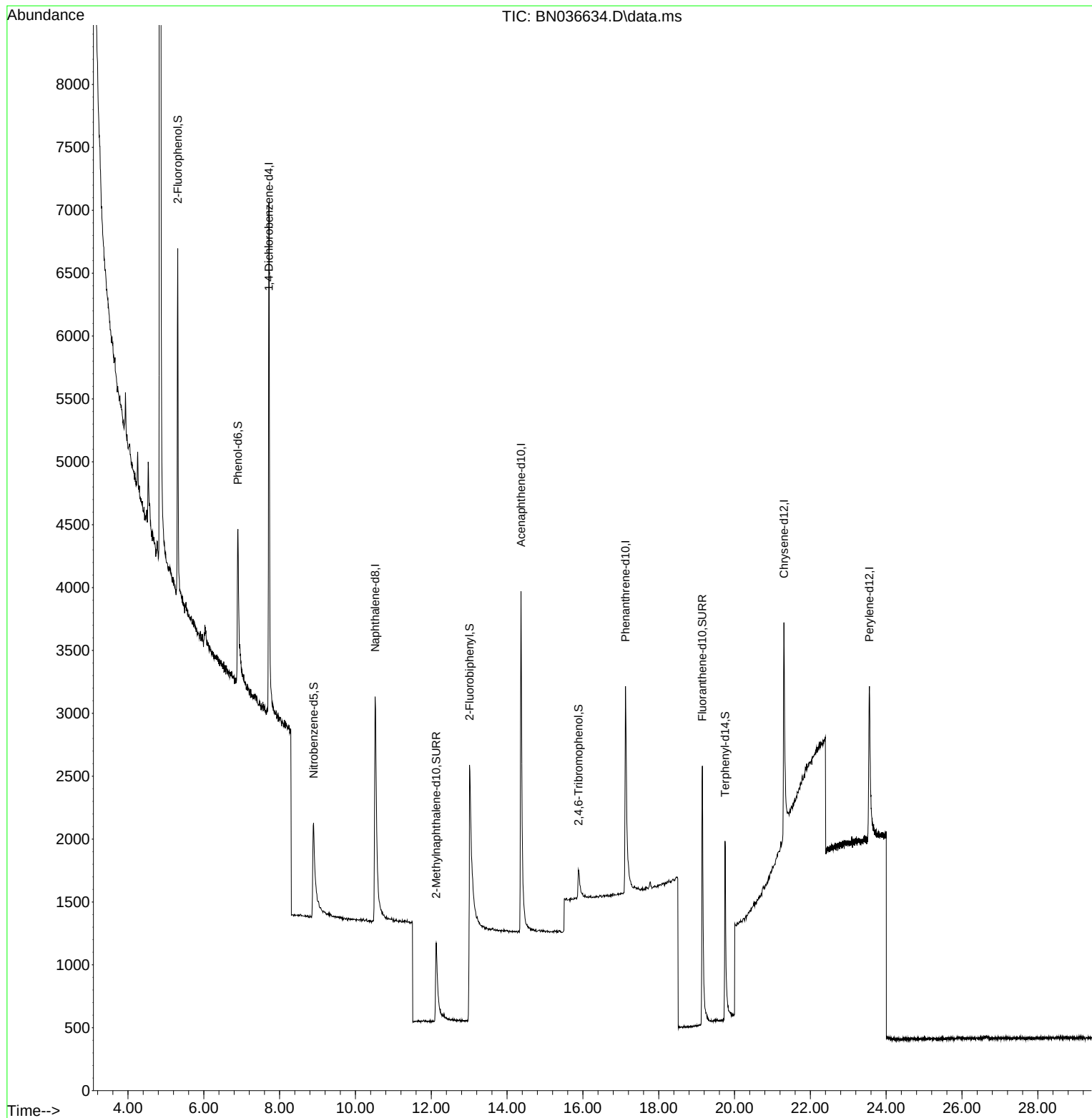
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Data File : BN036634.D
Acq On : 15 Mar 2025 09:11
Operator : RC/JU
Sample : PB167128BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

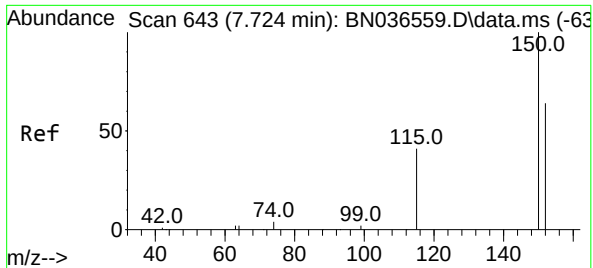
Instrument :
BNA_N
ClientSampleId :
PB167128BL

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

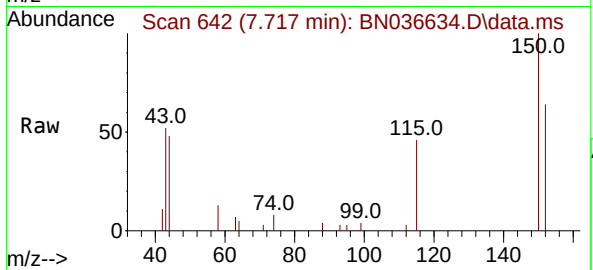
Quant Time: Mar 17 00:34:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

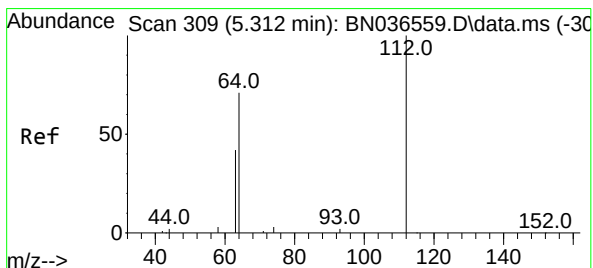
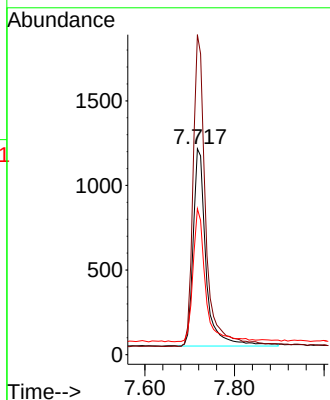
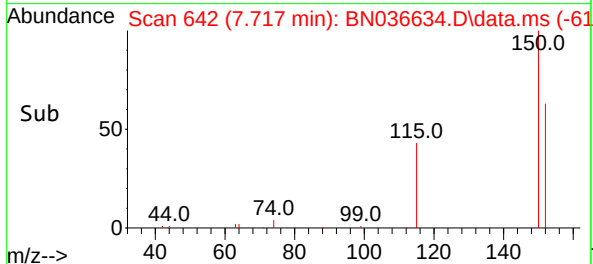
Instrument :
BNA_N
ClientSampleId :
PB167128BL



Tgt Ion:152 Resp: 232
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 70.8 54.3 81.5

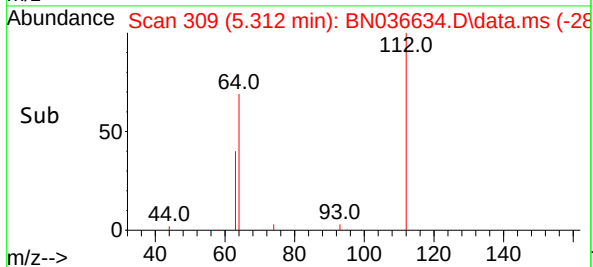
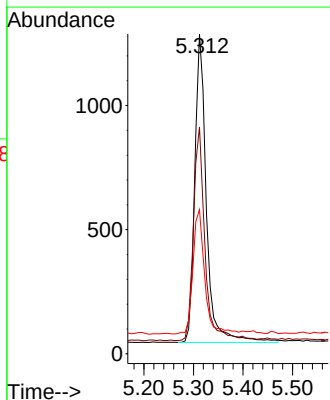
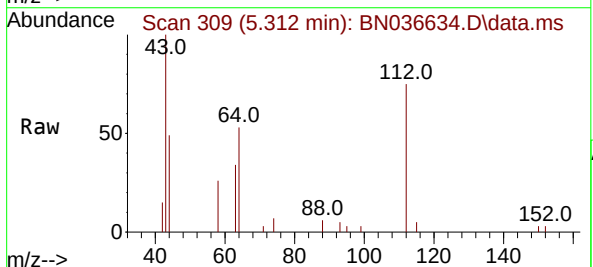
Manual Integrations
APPROVED

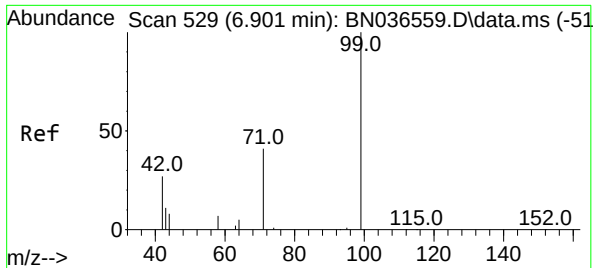
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

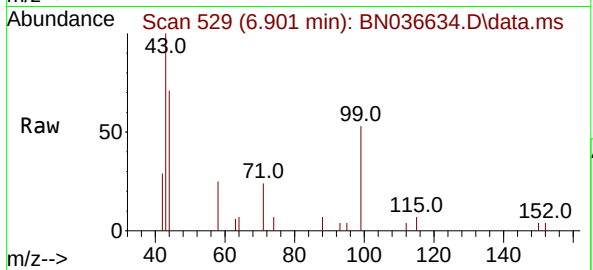
Tgt Ion:112 Resp: 2034
Ion Ratio Lower Upper
112 100
64 68.0 53.1 79.7
63 40.6 31.8 47.8





#5
Phenol-d6
Concen: 0.297 ng
RT: 6.901 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

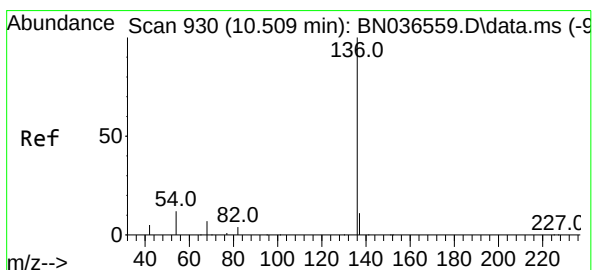
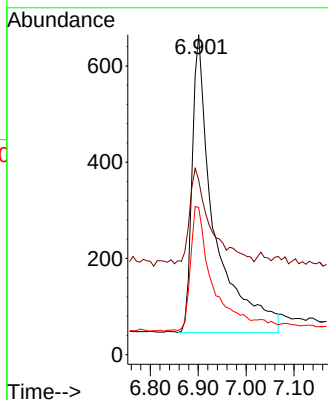
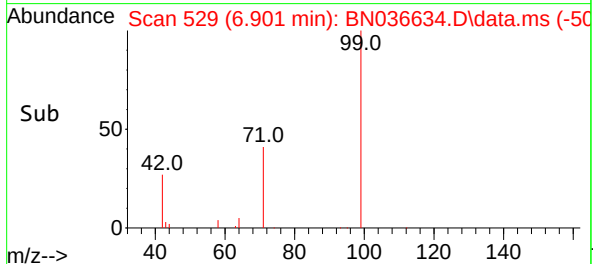
Instrument :
BNA_N
ClientSampleId :
PB167128BL



Tgt Ion: 99 Resp: 1984
Ion Ratio Lower Upper
99 100
42 29.9 26.5 39.7
71 41.4 34.1 51.1

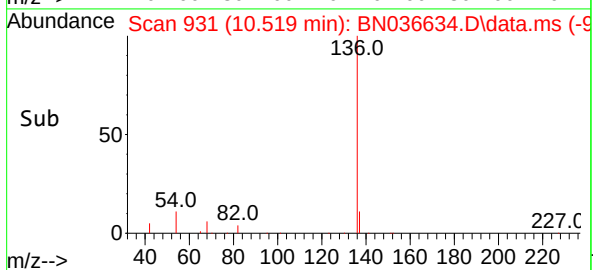
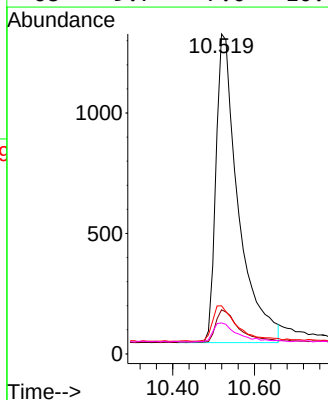
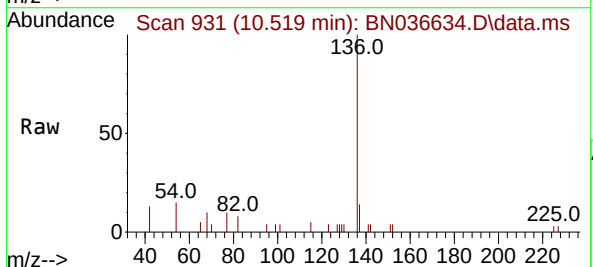
Manual Integrations
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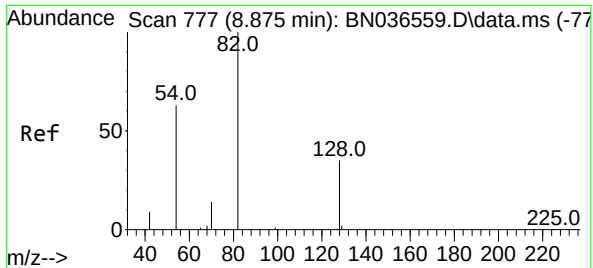
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

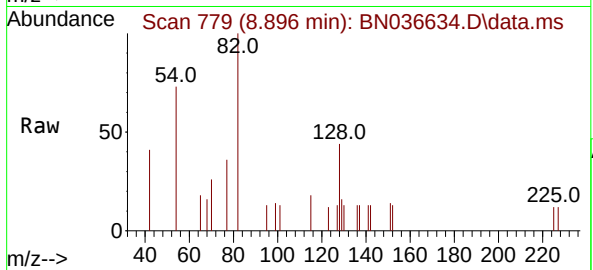
Tgt Ion:136 Resp: 4860
Ion Ratio Lower Upper
136 100
137 13.8 10.3 15.5
54 15.1 11.5 17.3
68 9.7 7.0 10.4





#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.896 min Scan# 71
Delta R.T. 0.021 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

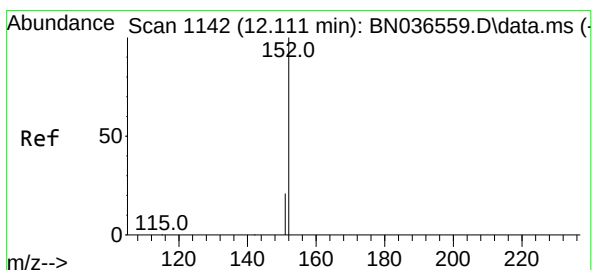
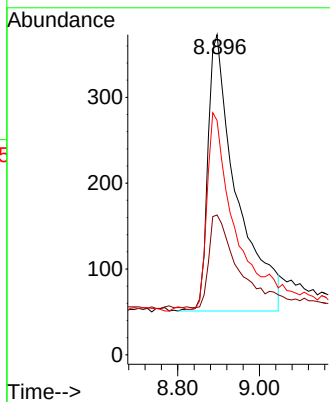
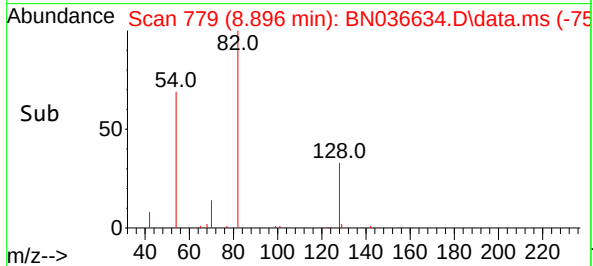
Instrument :
BNA_N
ClientSampleId :
PB167128BL



Tgt Ion: 82 Resp: 1564
Ion Ratio Lower Upper
82 100
128 43.7 30.6 45.8
54 73.2 52.2 78.4

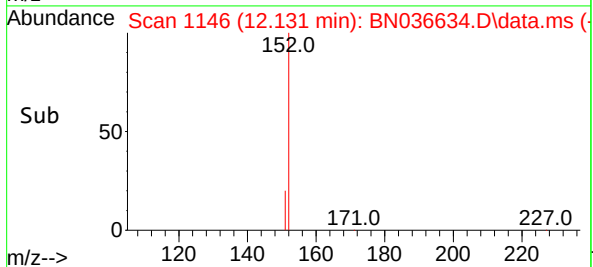
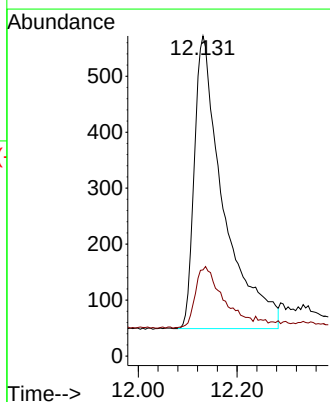
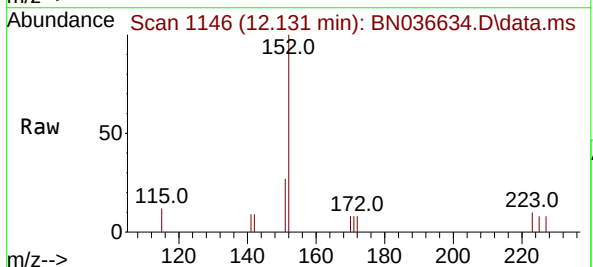
Manual Integrations
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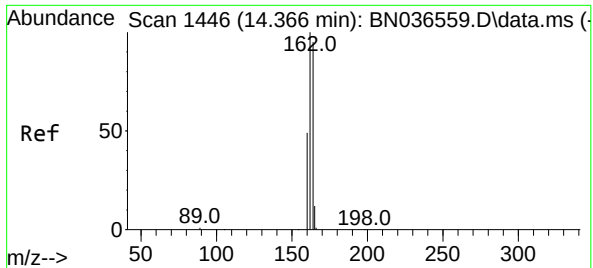
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#11
2-Methylnaphthalene-d10
Concen: 0.295 ng
RT: 12.131 min Scan# 1146
Delta R.T. 0.020 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

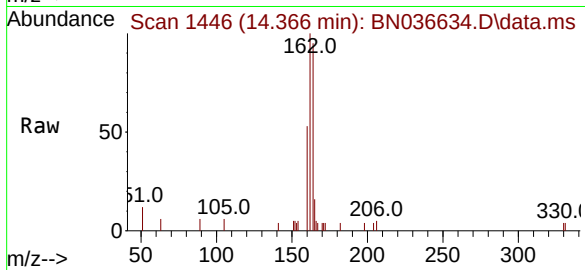
Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
151 20.3 17.0 25.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

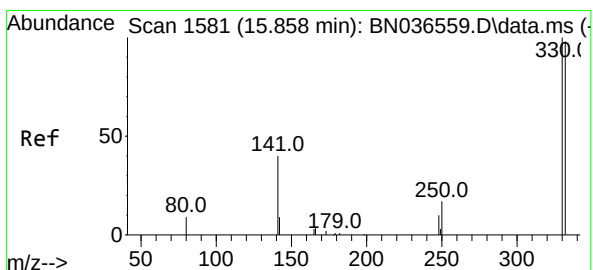
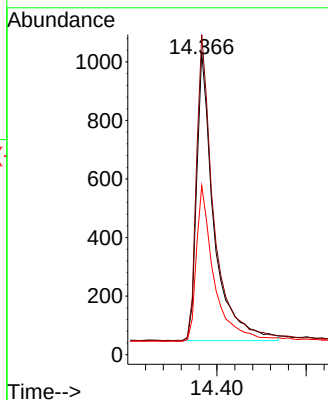
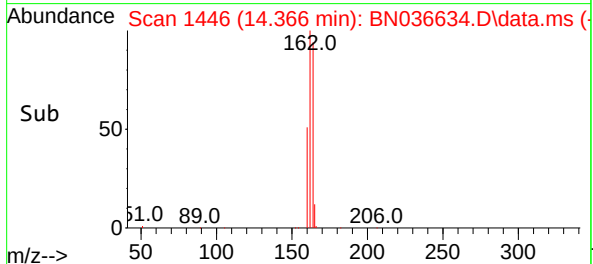
Instrument :
BNA_N
ClientSampleId :
PB167128BL



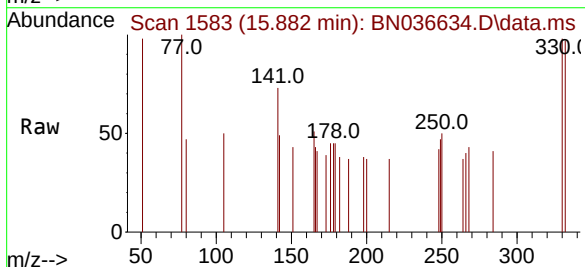
Tgt Ion:164 Resp: 2639
Ion Ratio Lower Upper
164 100
162 105.8 84.2 126.2
160 55.9 42.2 63.2

Manual Integrations
APPROVED

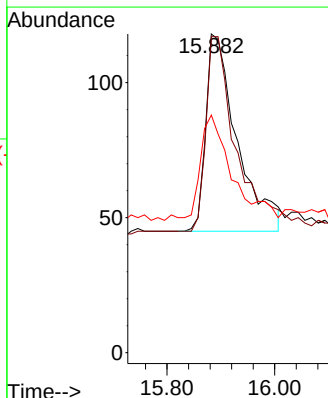
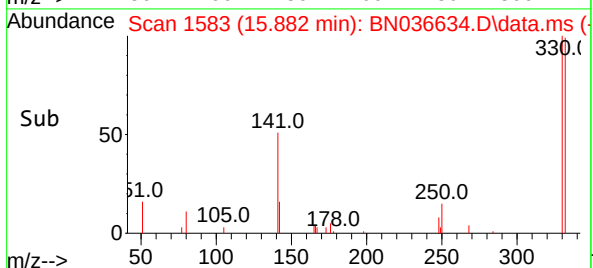
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

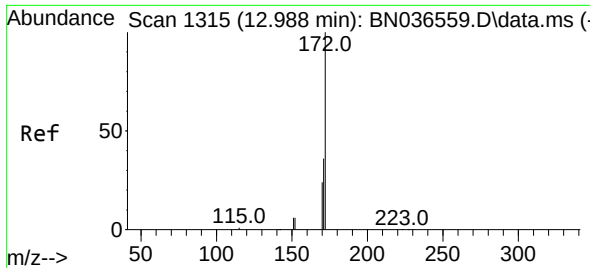


#14
2,4,6-Tribromophenol
Concen: 0.246 ng
RT: 15.882 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11



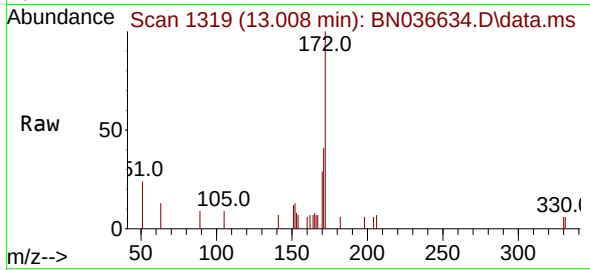
Tgt Ion:330 Resp: 294
Ion Ratio Lower Upper
330 100
332 94.6 75.2 112.8
141 54.4 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.247 ng m
RT: 13.008 min Scan# 1315
Delta R.T. 0.020 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

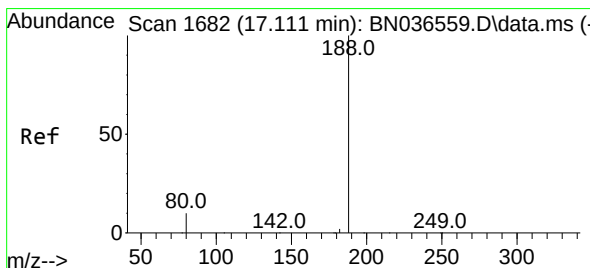
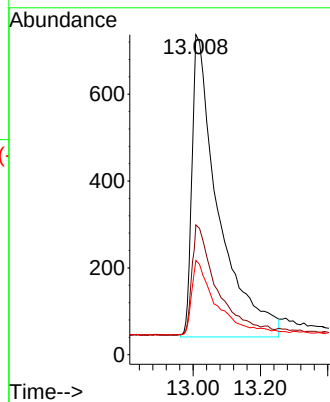
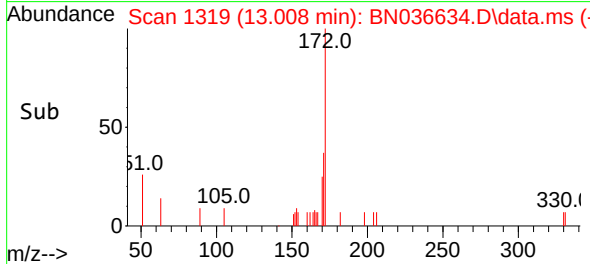
Instrument :
BNA_N
ClientSampleId :
PB167128BL



Tgt Ion:172 Resp: 379
Ion Ratio Lower Upper
172 100
171 40.6 29.5 44.3
170 29.4 20.2 30.4

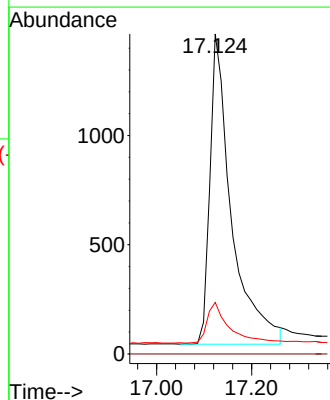
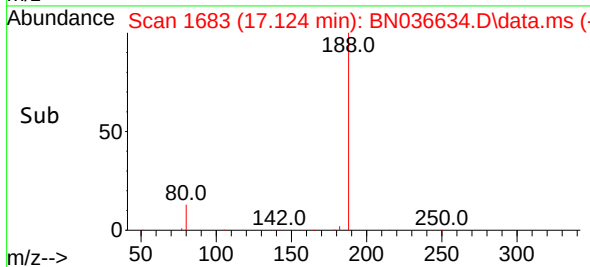
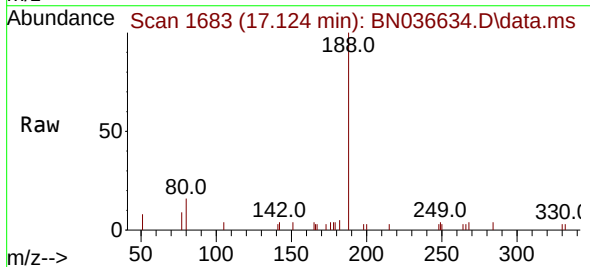
Manual Integrations
APPROVED

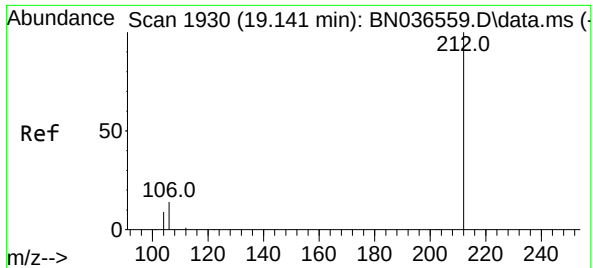
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.012 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:188 Resp: 4474
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 8.8 13.2#





#27

Fluoranthene-d10

Concen: 0.356 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.009 min

Lab File: BN036634.D

Acq: 15 Mar 2025 09:11

Instrument :

BNA_N

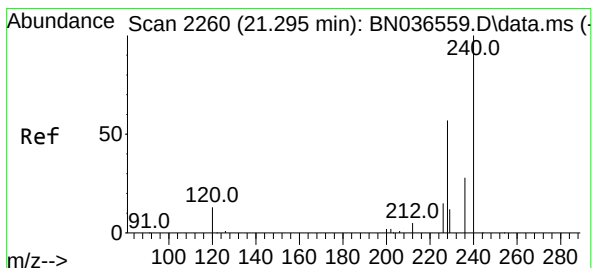
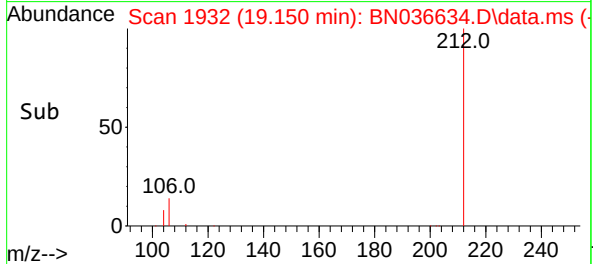
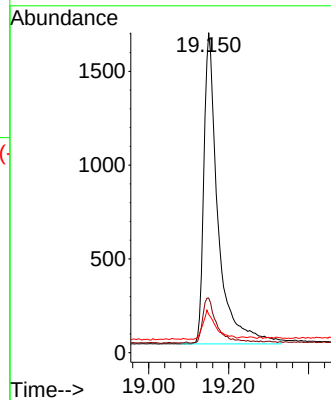
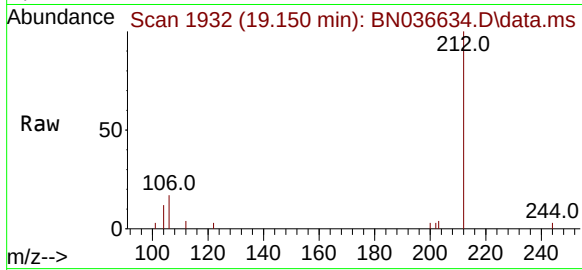
ClientSampleId :

PB167128BL

Tgt Ion:	212	Resp:	408
Ion Ratio	Lower	Upper	
212	100		
106	14.6	11.8	17.6
104	8.3	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#29

Chrysene-d12

Concen: 0.400 ng

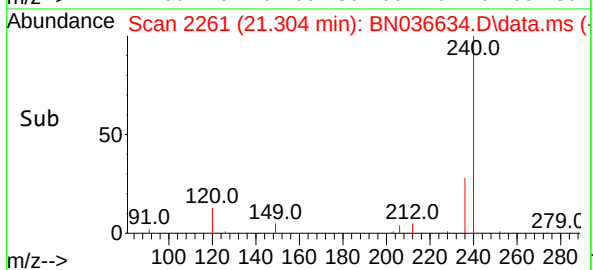
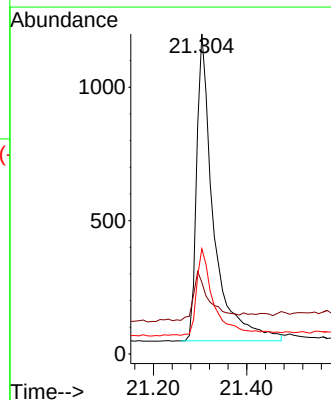
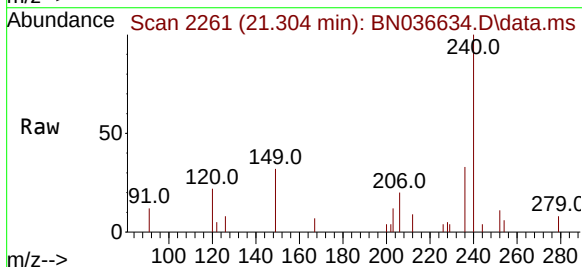
RT: 21.304 min Scan# 2261

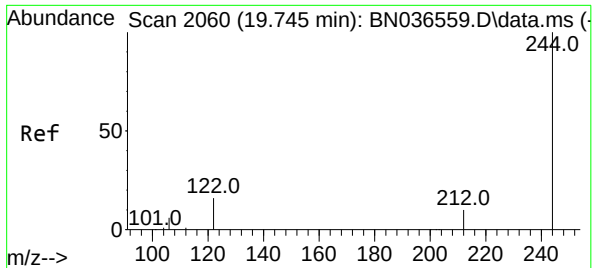
Delta R.T. 0.009 min

Lab File: BN036634.D

Acq: 15 Mar 2025 09:11

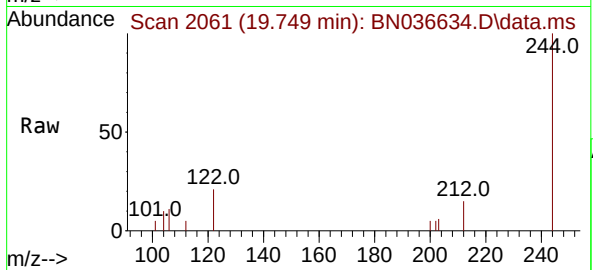
Tgt Ion:	240	Resp:	2905
Ion Ratio	Lower	Upper	
240	100		
120	22.4	14.6	22.0#
236	32.8	24.1	36.1





#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.749 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

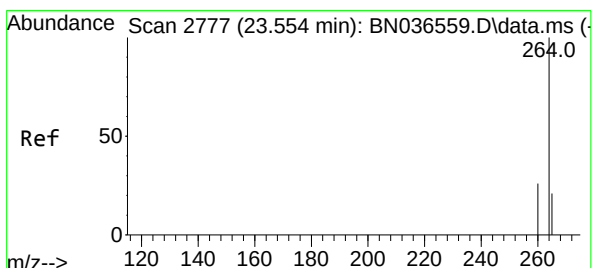
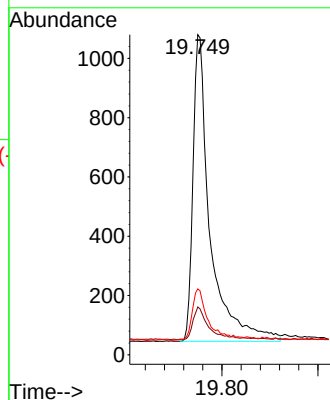
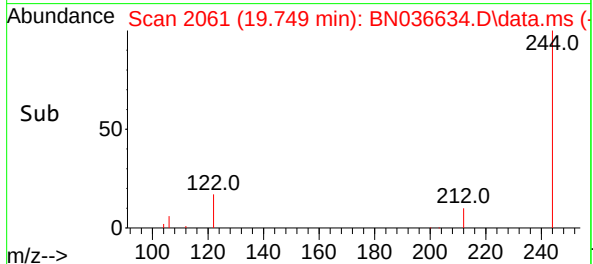
Instrument :
BNA_N
ClientSampleId :
PB167128BL



Tgt Ion:244 Resp: 255
Ion Ratio Lower Upper
244 100
212 14.9 9.6 14.4
122 20.6 13.9 20.9

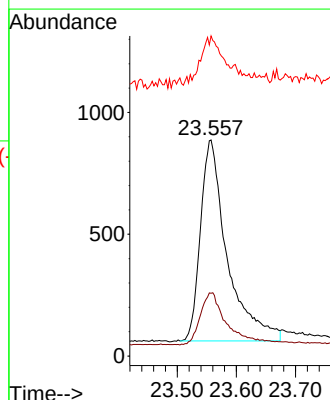
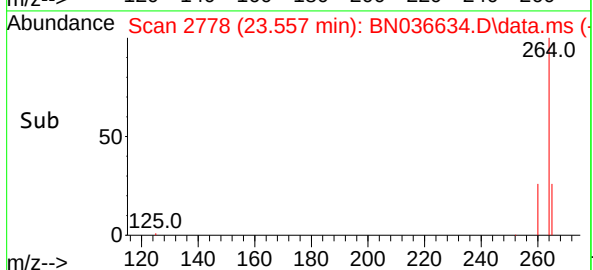
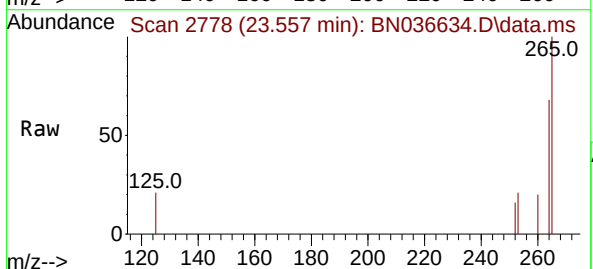
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.003 min
Lab File: BN036634.D
Acq: 15 Mar 2025 09:11

Tgt Ion:264 Resp: 2592
Ion Ratio Lower Upper
264 100
260 29.1 22.6 33.8
265 148.1 88.1 132.1#



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	PB167128BS		SDG No.:	Q1502
Lab Sample ID:	PB167128BS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036630.D	1	03/13/25 12:40	03/15/25 05:28	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.37		0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.43		0.040	0.10	ug/L
83-32-9	Acenaphthene	0.40		0.040	0.10	ug/L
86-73-7	Fluorene	0.37		0.040	0.10	ug/L
85-01-8	Phenanthrene	0.42		0.030	0.10	ug/L
120-12-7	Anthracene	0.42		0.040	0.10	ug/L
206-44-0	Fluoranthene	0.36		0.030	0.10	ug/L
129-00-0	Pyrene	0.46		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.39		0.040	0.10	ug/L
218-01-9	Chrysene	0.45		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.38		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.43		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.45		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.48		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.47		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.45		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		20 - 139	90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		27 - 154	84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		25 - 149	98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		54 - 175	106%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2540		7.717		
1146-65-2	Naphthalene-d8	5900		10.509		
15067-26-2	Acenaphthene-d10	2990		14.356		
1517-22-2	Phenanthrene-d10	5080		17.099		
1719-03-5	Chrysene-d12	2790		21.295		
1520-96-3	Perylene-d12	2520		23.546		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167128BS	SDG No.:	Q1502
Lab Sample ID:	PB167128BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036630.D	1	03/13/25 12:40	03/15/25 05:28	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
 Data File : BN036630.D
 Acq On : 15 Mar 2025 05:28
 Operator : RC/JU
 Sample : PB167128BS
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167128BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 15 05:53:04 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	7.717	152	2536	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5899	0.400	ng	# 0.00
13) Acenaphthene-d10	14.356	164	2985	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5084	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2789	0.400	ng	0.00
35) Perylene-d12	23.546	264	2522	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2233	0.378	ng	0.00
5) Phenol-d6	6.894	99	2587	0.354	ng	0.00
8) Nitrobenzene-d5	8.865	82	2156	0.336	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3138m	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	315	0.233	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6832	0.393	ng	0.00
27) Fluoranthene-d10	19.137	212	4224	0.324	ng	0.00
31) Terphenyl-d14	19.745	244	2825	0.423	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.240	88	1001	0.356	ng	# 3
3) n-Nitrosodimethylamine	3.550	42	2198	0.386	ng	97
6) bis(2-Chloroethyl)ether	7.147	93	2774	0.368	ng	98
9) Naphthalene	10.552	128	6484	0.374	ng	99
10) Hexachlorobutadiene	10.840	225	1584	0.388	ng	# 98
12) 2-Methylnaphthalene	12.172	142	4087	0.370	ng	99
16) Acenaphthylene	14.078	152	5990	0.425	ng	100
17) Acenaphthene	14.420	154	3723	0.404	ng	99
18) Fluorene	15.414	166	4636	0.372	ng	98
20) 4,6-Dinitro-2-methylph...	15.510	198	292	0.371	ng	93
21) 4-Bromophenyl-phenylether	16.305	248	1320	0.414	ng	90
22) Hexachlorobenzene	16.416	284	1711	0.445	ng	97
23) Atrazine	16.578	200	1041	0.408	ng	97
24) Pentachlorophenol	16.764	266	795	0.453	ng	99
25) Phenanthrene	17.149	178	6384	0.419	ng	99
26) Anthracene	17.236	178	5840	0.424	ng	99
28) Fluoranthene	19.169	202	6217	0.363	ng	99
30) Pyrene	19.531	202	6327	0.464	ng	99
32) Benzo(a)anthracene	21.277	228	3798	0.392	ng	98
33) Chrysene	21.331	228	4792	0.452	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2402m	0.348	ng	
36) Indeno(1,2,3-cd)pyrene	25.823	276	4361	0.479	ng	# 85
37) Benzo(b)fluoranthene	22.867	252	3496	0.381	ng	95
38) Benzo(k)fluoranthene	22.911	252	4099m	0.426	ng	
39) Benzo(a)pyrene	23.446	252	3473	0.449	ng	95
40) Dibenzo(a,h)anthracene	25.852	278	3336	0.471	ng	95
41) Benzo(g,h,i)perylene	26.516	276	3628	0.448	ng	100

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

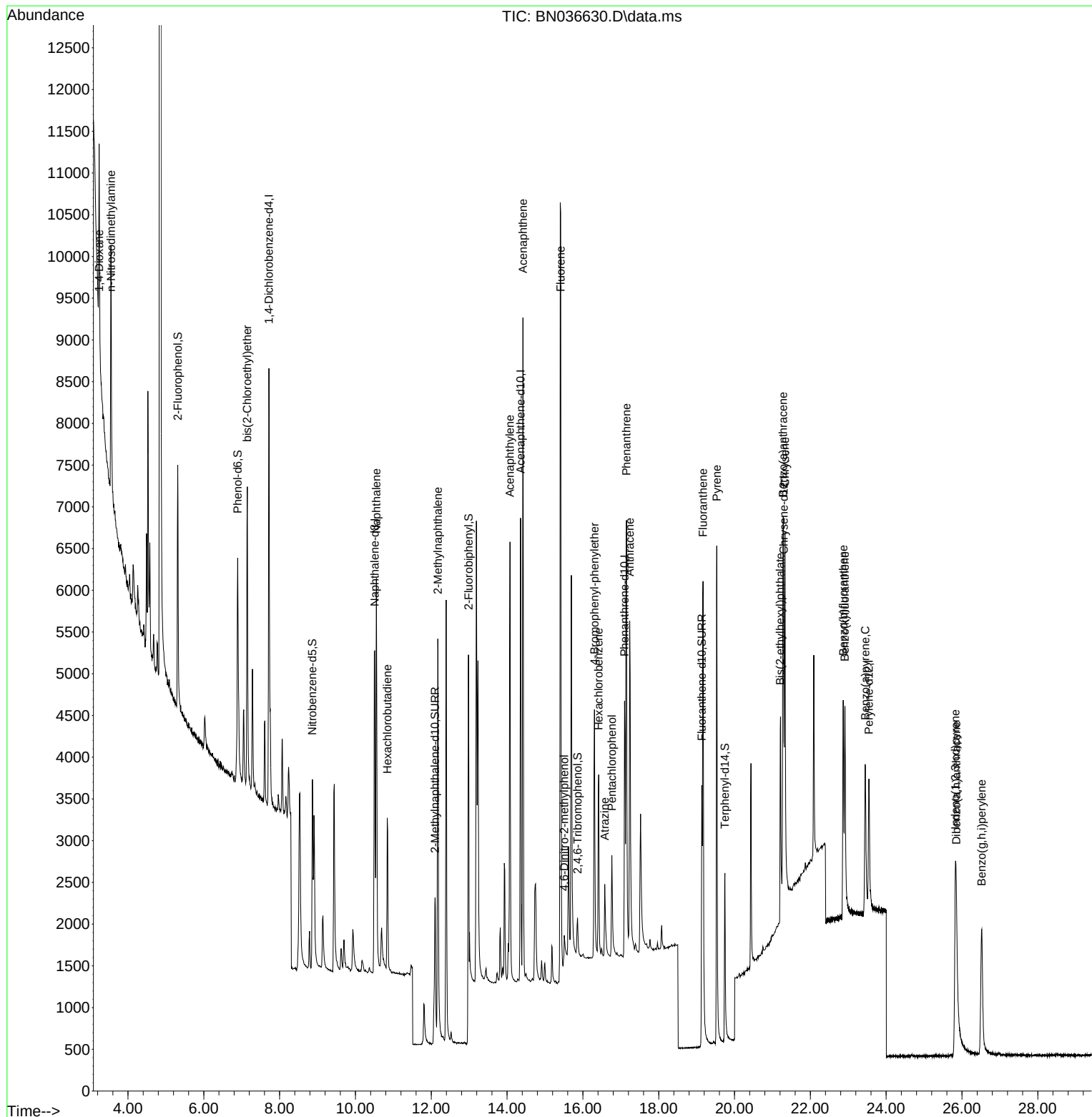
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
Data File : BN036630.D
Acq On : 15 Mar 2025 05:28
Operator : RC/JU
Sample : PB167128BS
Misc :
ALS Vial : 24 Sample Multiplier: 1

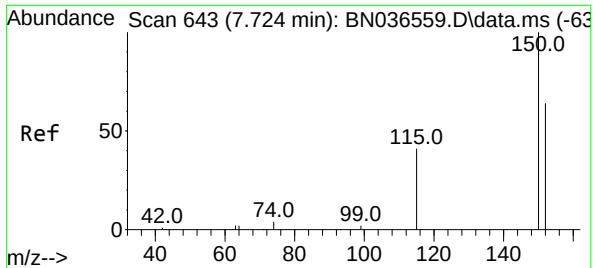
Instrument :
BNA_N
ClientSampleId :
PB167128BS

Quant Time: Mar 15 05:53:04 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

Manual Integrations
APPROVED

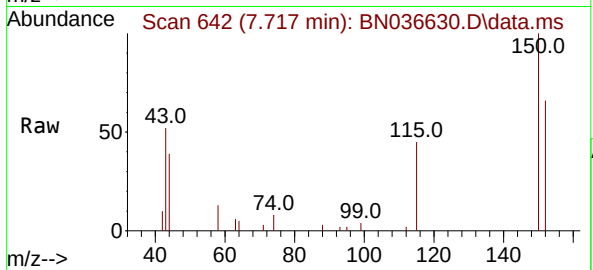
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

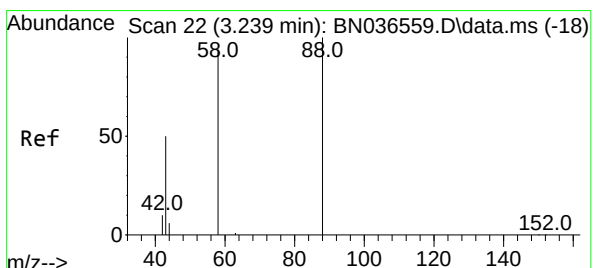
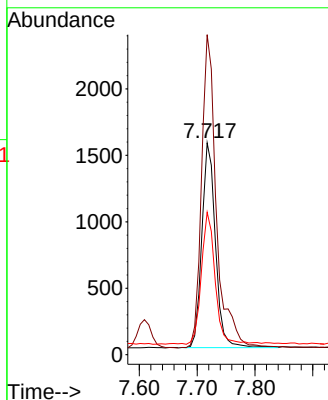
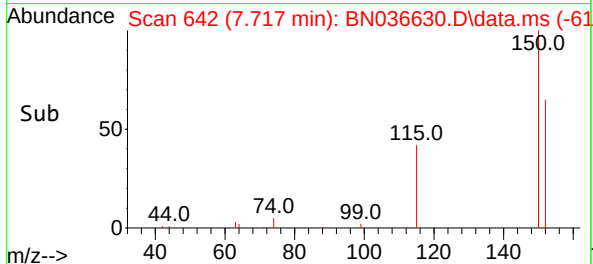
Instrument :
BNA_N
ClientSampleId :
PB167128BS



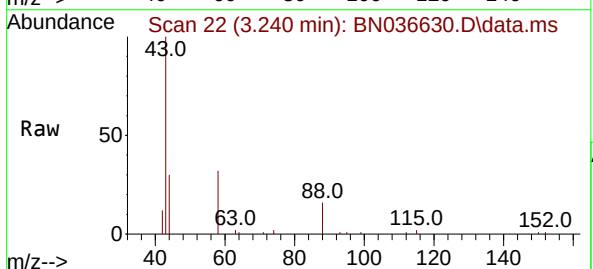
Tgt Ion: 152 Resp: 2530
Ion Ratio Lower Upper
152 100
150 151.1 123.7 185.5
115 67.3 54.3 81.5

Manual Integrations
APPROVED

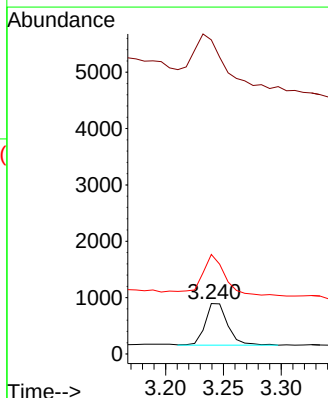
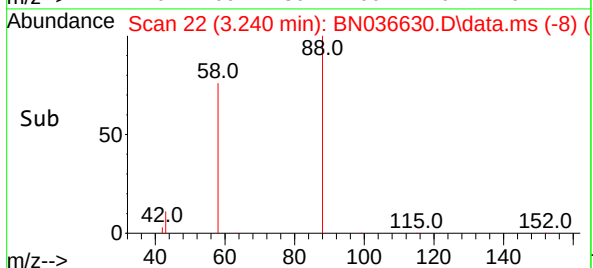
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

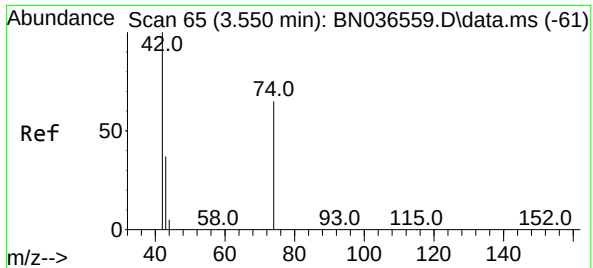


#2
1,4-Dioxane
Concen: 0.356 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.001 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28



Tgt Ion: 88 Resp: 1001
Ion Ratio Lower Upper
88 100
43 202.6 37.8 56.8#
58 103.5 67.4 101.2#





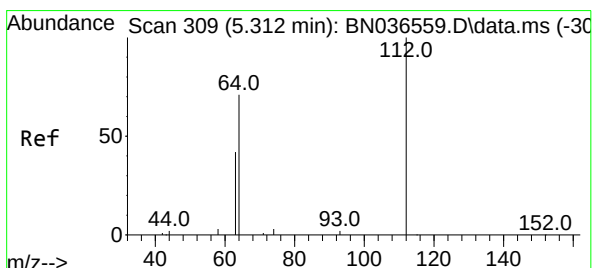
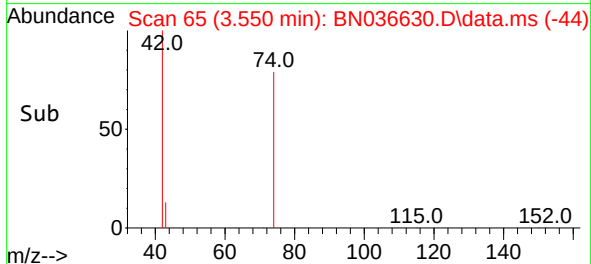
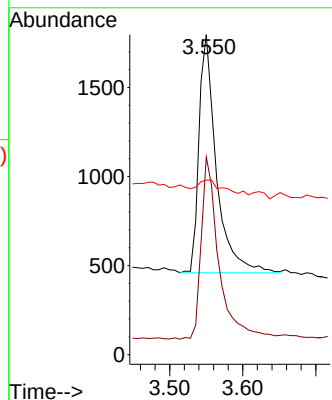
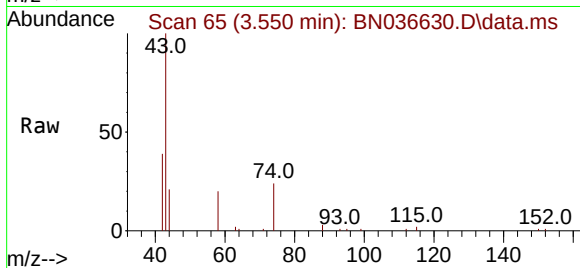
#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Instrument :
BNA_N
ClientSampleId :
PB167128BS

Tgt Ion: 42 Resp: 2198
Ion Ratio Lower Upper
42 100
74 78.2 60.6 90.8
44 8.7 6.3 9.5

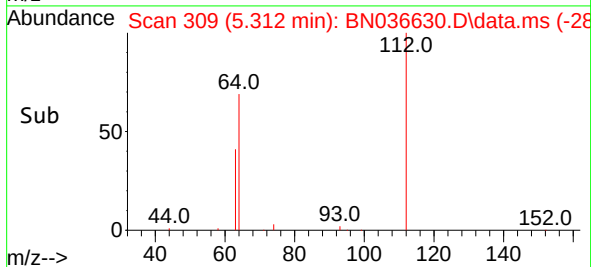
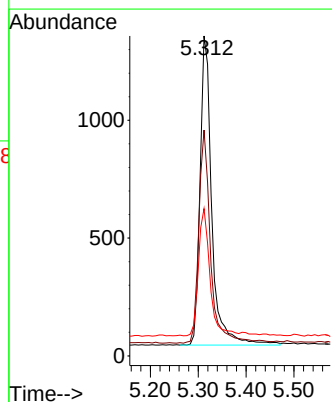
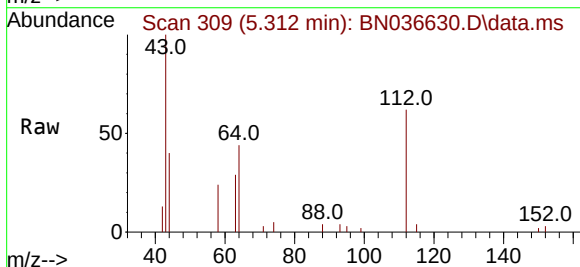
Manual Integrations
APPROVED

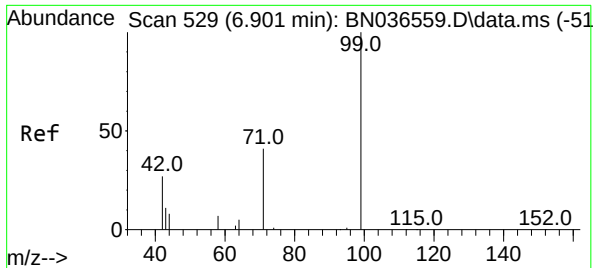
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#4
2-Fluorophenol
Concen: 0.378 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

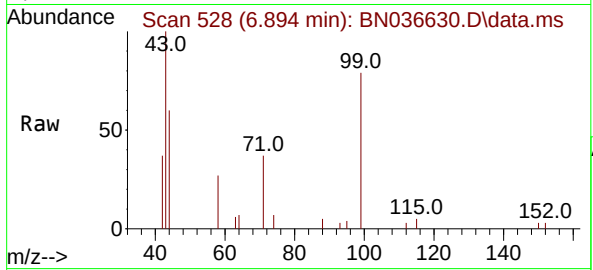
Tgt Ion:112 Resp: 2233
Ion Ratio Lower Upper
112 100
64 68.7 53.1 79.7
63 40.3 31.8 47.8





#5
Phenol-d6
Concen: 0.354 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

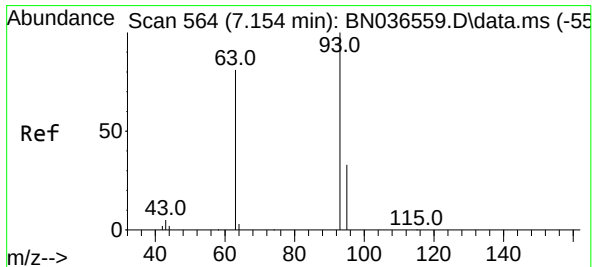
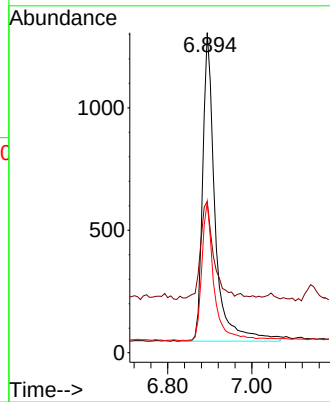
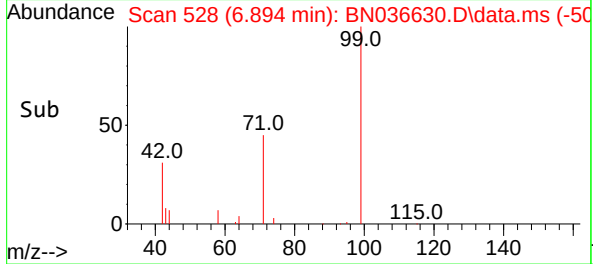
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion: 99 Resp: 258
Ion Ratio Lower Upper
99 100
42 35.2 26.5 39.7
71 43.5 34.1 51.1

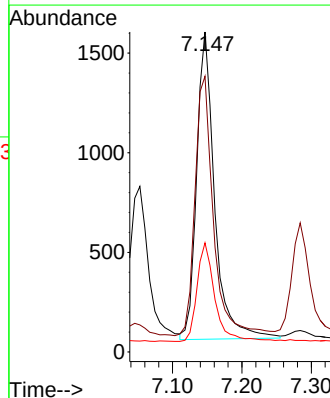
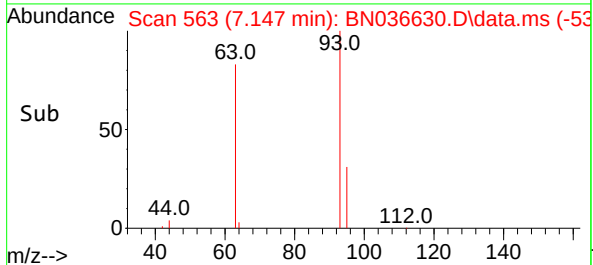
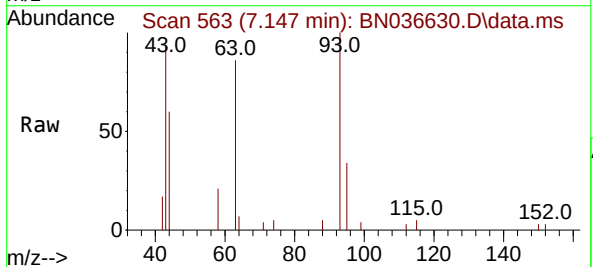
Manual Integrations
APPROVED

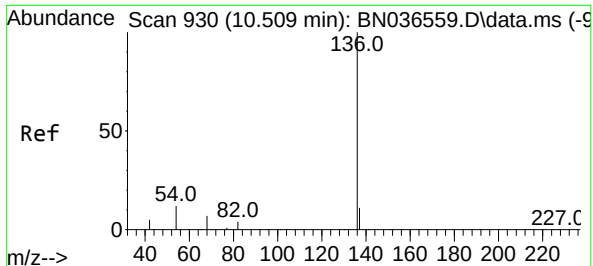
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

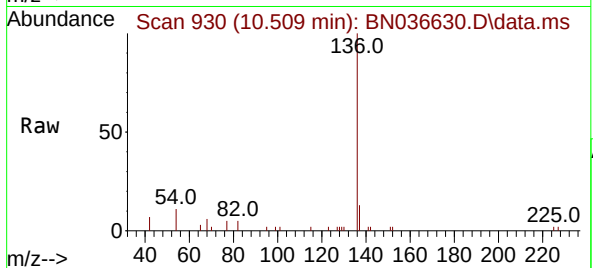
Tgt Ion: 93 Resp: 2774
Ion Ratio Lower Upper
93 100
63 86.8 67.7 101.5
95 31.8 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

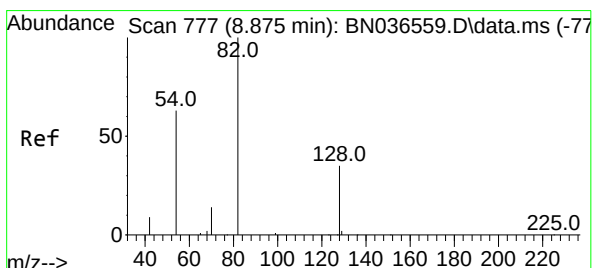
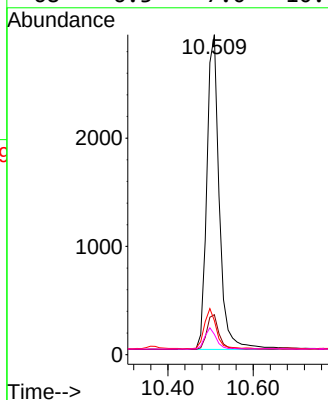
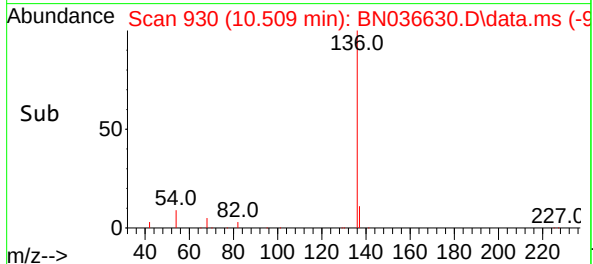
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion: 136 Resp: 589
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 10.6 11.5 17.3
68 6.3 7.0 10.4#

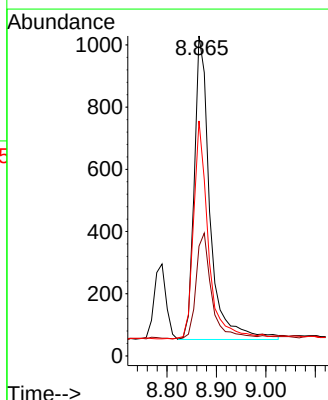
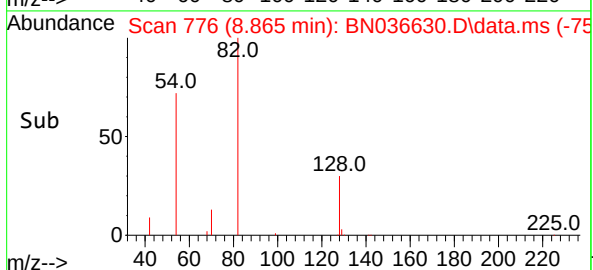
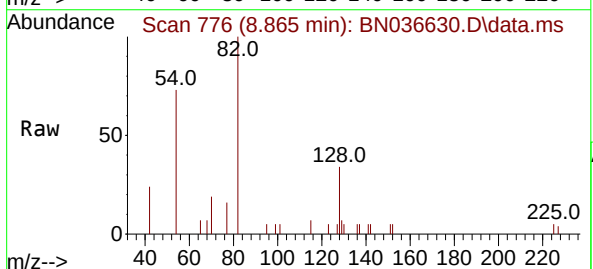
Manual Integrations
APPROVED

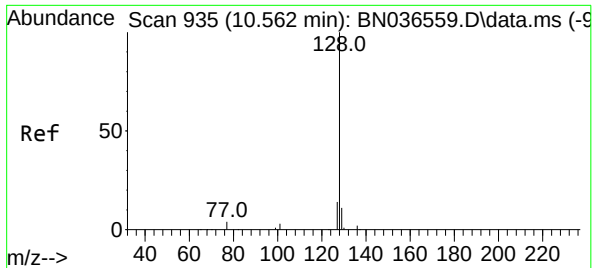
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion: 82 Resp: 2156
Ion Ratio Lower Upper
82 100
128 34.3 30.6 45.8
54 73.5 52.2 78.4



#9
Naphthalene

Concen: 0.374 ng

RT: 10.552 min Scan# 91

Delta R.T. -0.010 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

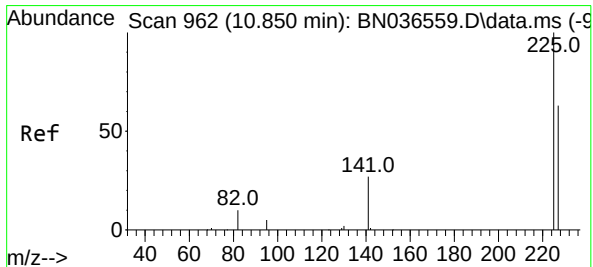
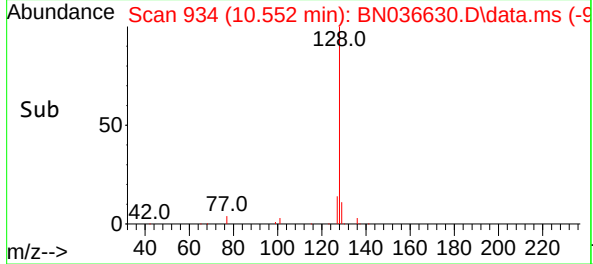
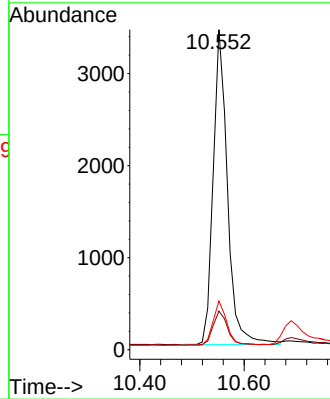
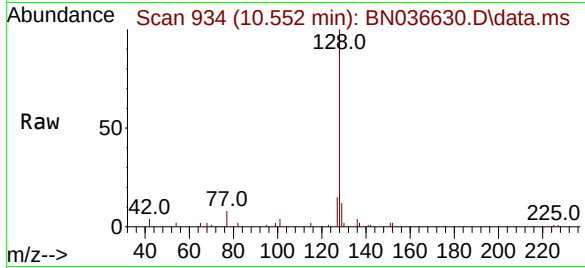
Instrument :

BNA_N

ClientSampleId :

PB167128BS

Tgt Ion:	128	Resp:	648
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	15.2	11.8	17.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

#10

Hexachlorobutadiene

Concen: 0.388 ng

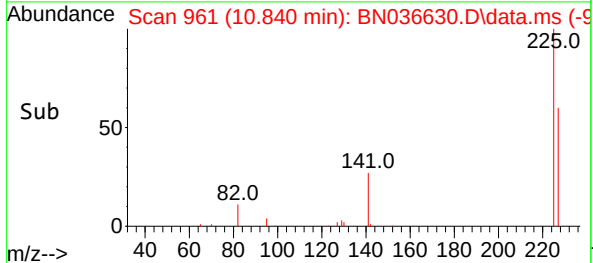
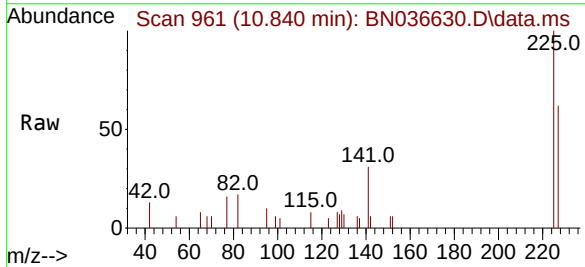
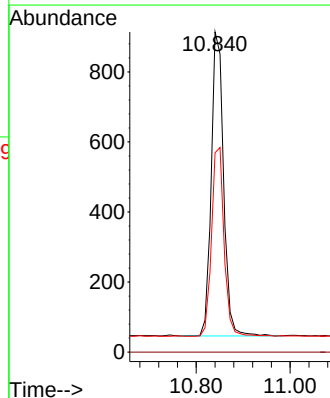
RT: 10.840 min Scan# 961

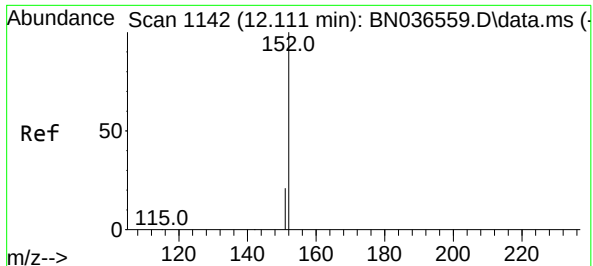
Delta R.T. -0.010 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

Tgt Ion:	225	Resp:	1584
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.8	77.8





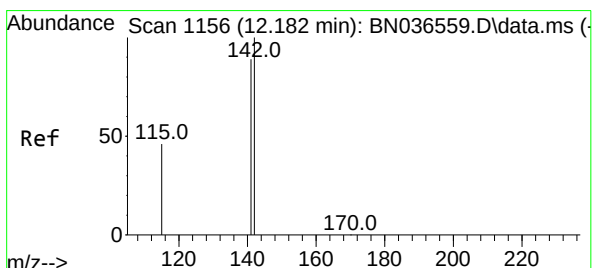
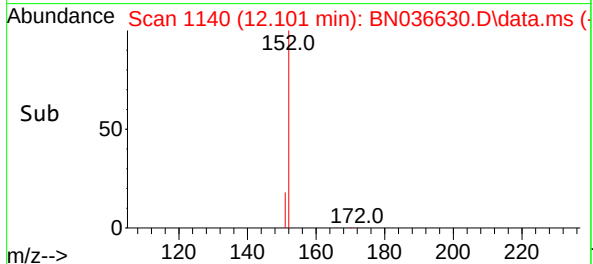
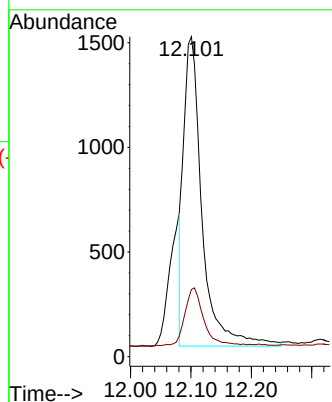
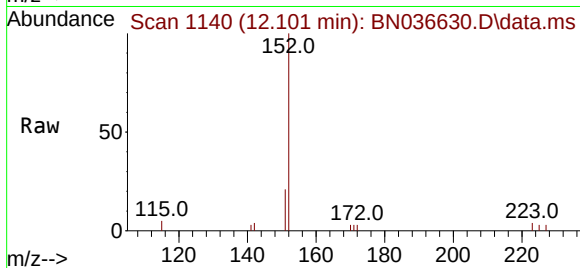
#11
2-Methylnaphthalene-d10
Concen: 0.358 ng m
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Instrument :
BNA_N
ClientSampleId :
PB167128BS

Tgt Ion:152 Resp: 3138
Ion Ratio Lower Upper
152 100
151 19.4 17.0 25.6

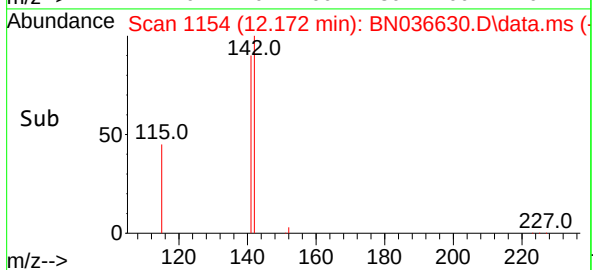
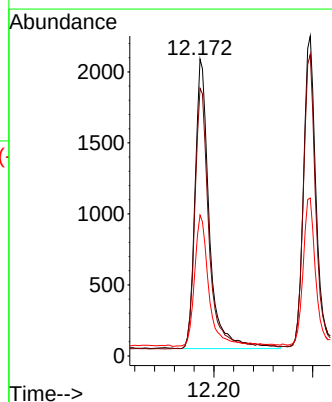
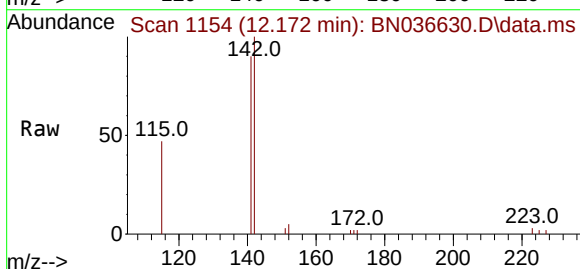
Manual Integrations
APPROVED

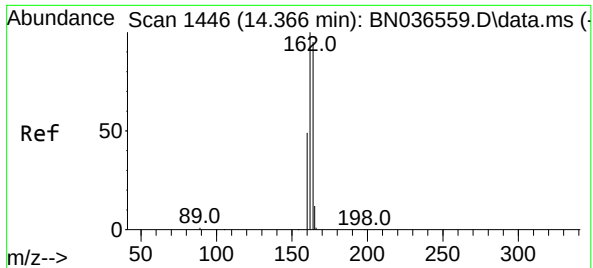
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

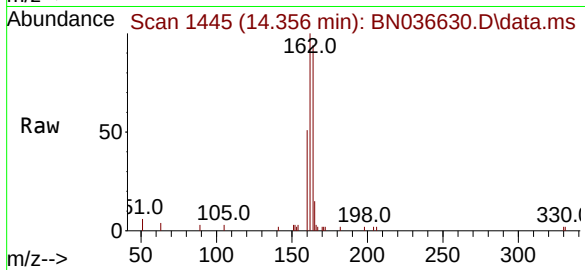
Tgt Ion:142 Resp: 4087
Ion Ratio Lower Upper
142 100
141 90.2 71.7 107.5
115 47.4 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

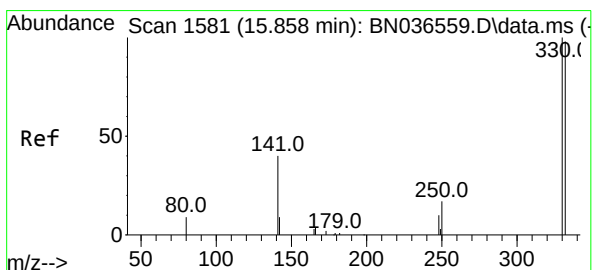
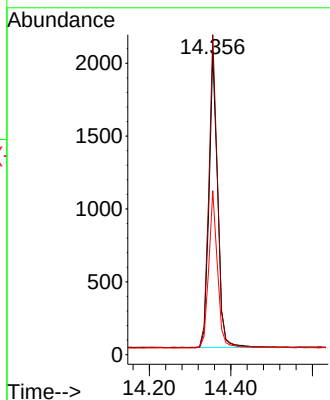
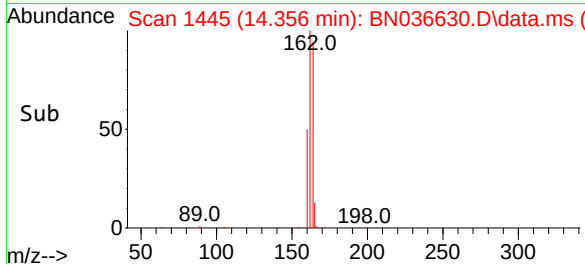
Instrument :
BNA_N
ClientSampleId :
PB167128BS



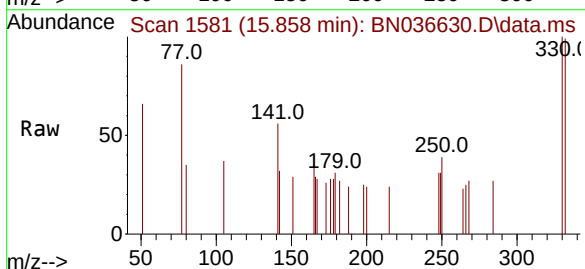
Tgt Ion:164 Resp: 298
Ion Ratio Lower Upper
164 100
162 106.4 84.2 126.2
160 54.5 42.2 63.2

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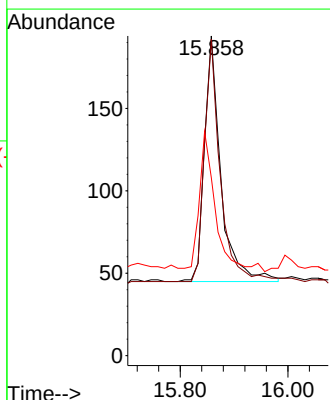
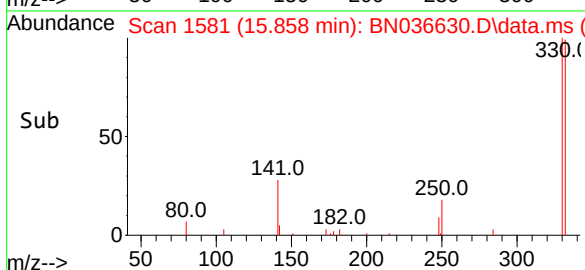
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

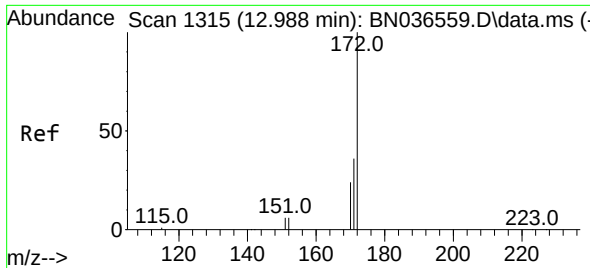


#14
2,4,6-Tribromophenol
Concen: 0.233 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28



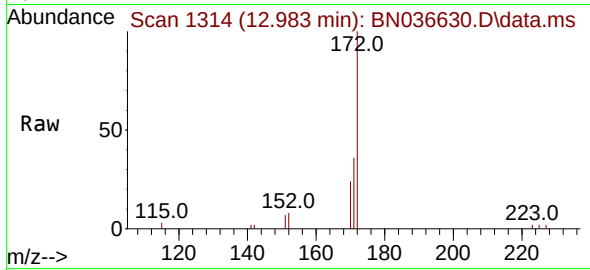
Tgt Ion:330 Resp: 315
Ion Ratio Lower Upper
330 100
332 94.9 75.2 112.8
141 56.2 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.983 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

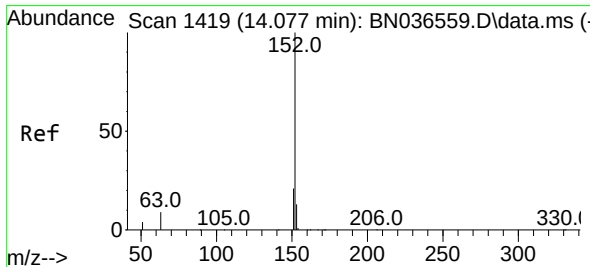
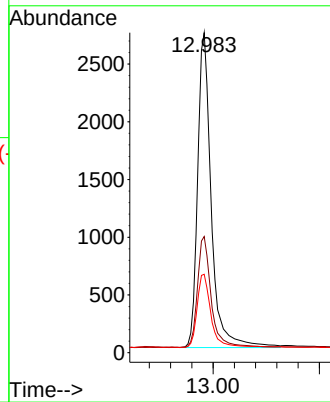
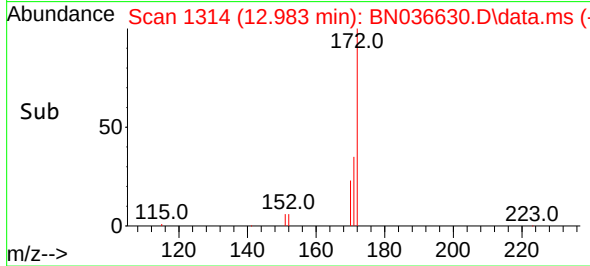
Instrument :
BNA_N
ClientSampleId :
PB167128BS



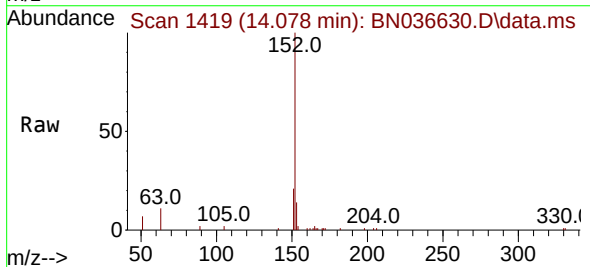
Tgt Ion:172 Resp: 683
Ion Ratio Lower Upper
172 100
171 36.3 29.5 44.3
170 24.5 20.2 30.4

Manual Integrations
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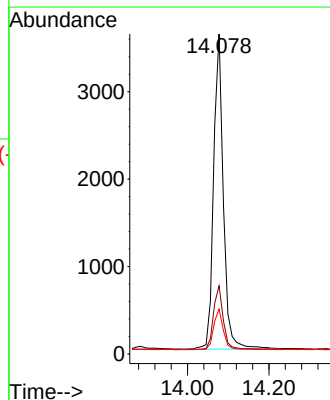
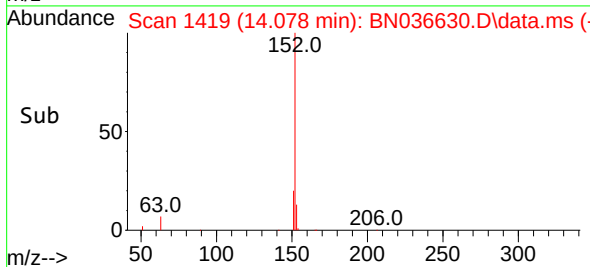
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

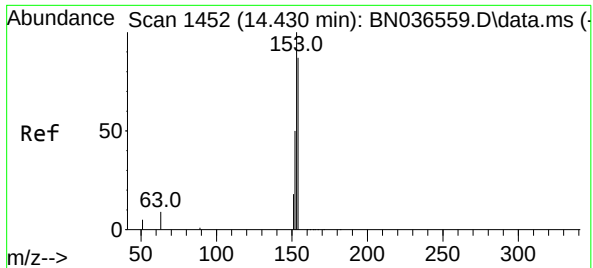


#16
Acenaphthylene
Concen: 0.425 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28



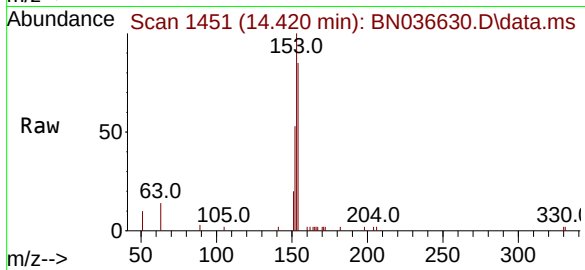
Tgt Ion:152 Resp: 5990
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4
153 12.9 10.6 15.8





#17
Acenaphthene
Concen: 0.404 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.010 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

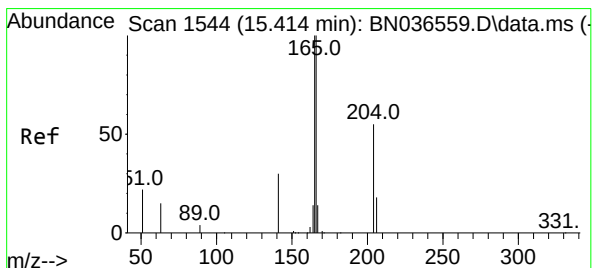
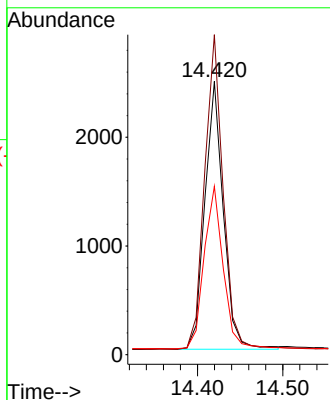
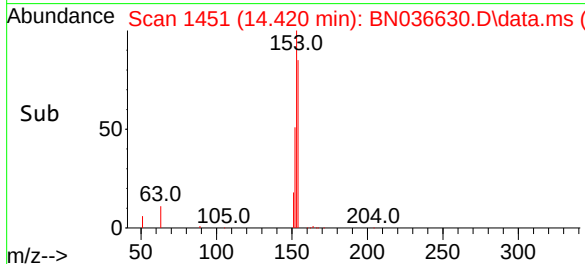
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion:154 Resp: 372
Ion Ratio Lower Upper
154 100
153 118.0 94.1 141.1
152 62.9 49.8 74.6

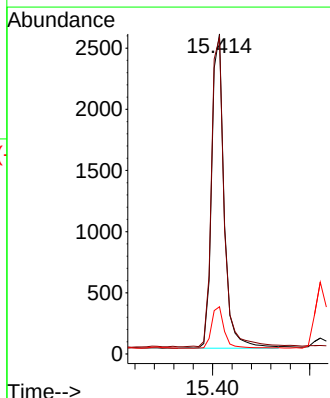
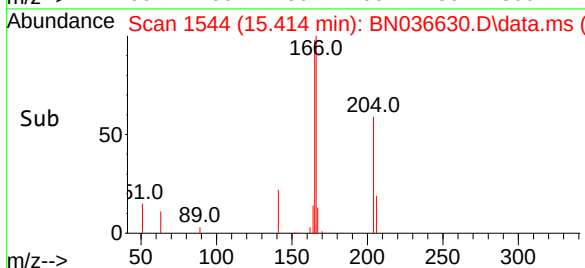
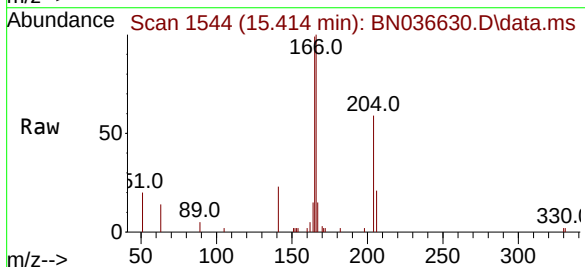
Manual Integrations
APPROVED

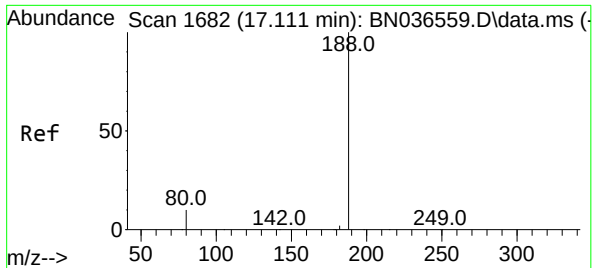
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#18
Fluorene
Concen: 0.372 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:166 Resp: 4636
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: 17.099 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

Instrument :

BNA_N

ClientSampleId :

PB167128BS

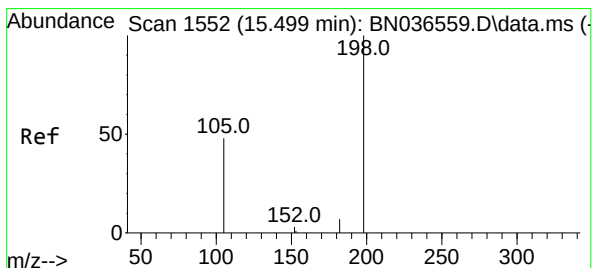
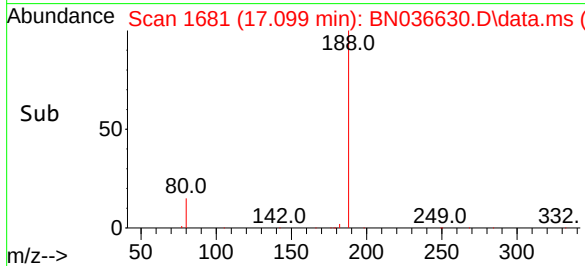
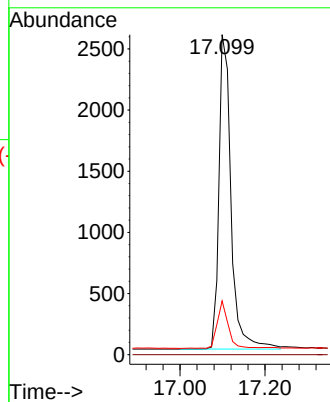
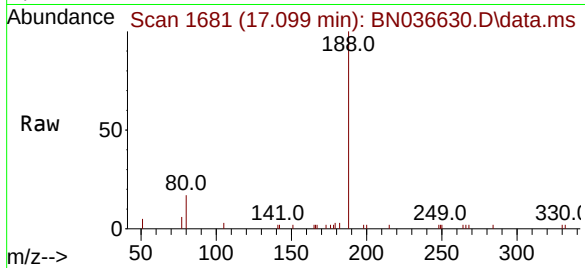
Tgt Ion:188	Resp:	508
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	16.8	13.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.371 ng

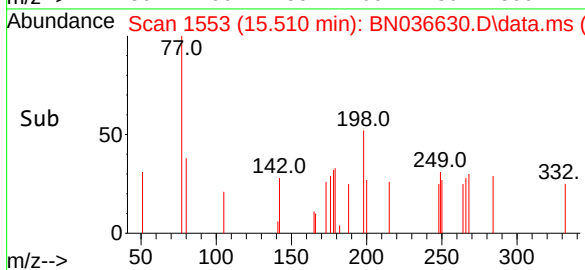
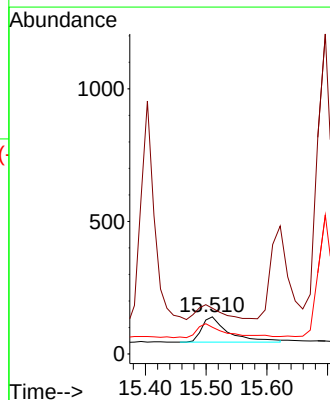
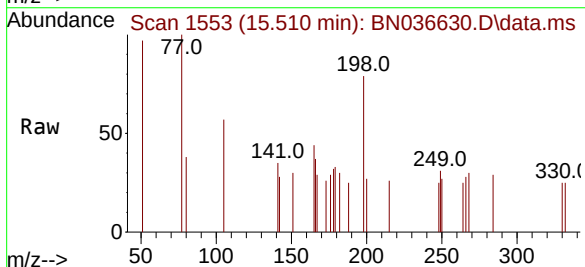
RT: 15.510 min Scan# 1553

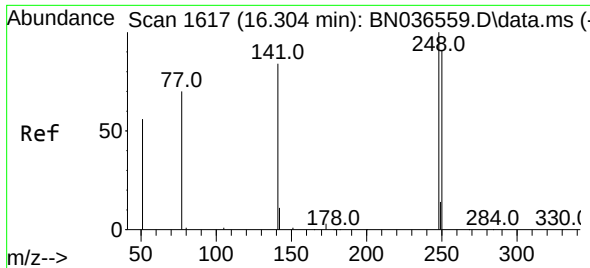
Delta R.T. 0.011 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

Tgt Ion:198	Resp:	292
Ion Ratio	Lower	Upper
198	100	
51	123.6	107.9
105	72.1	56.2





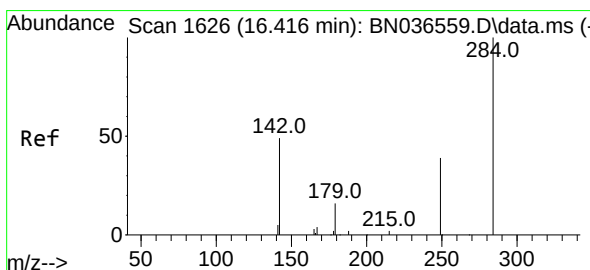
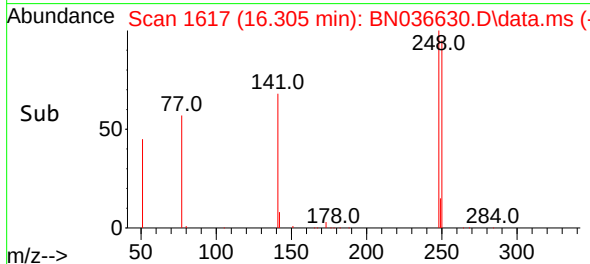
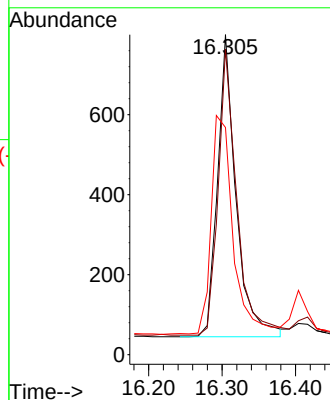
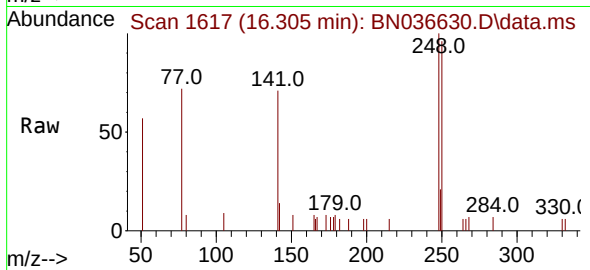
#21
4-Bromophenyl-phenylether
Concen: 0.414 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Instrument :
BNA_N
ClientSampleId :
PB167128BS

Tgt Ion:248 Resp: 1320
Ion Ratio Lower Upper
248 100
250 95.5 73.0 109.6
141 71.0 68.6 103.0

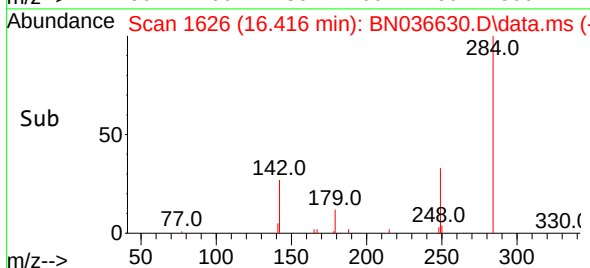
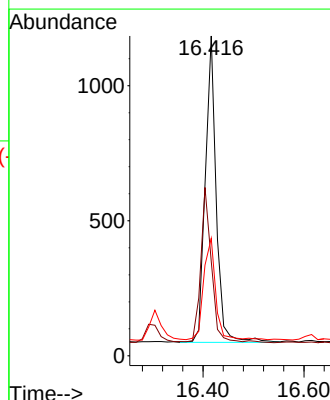
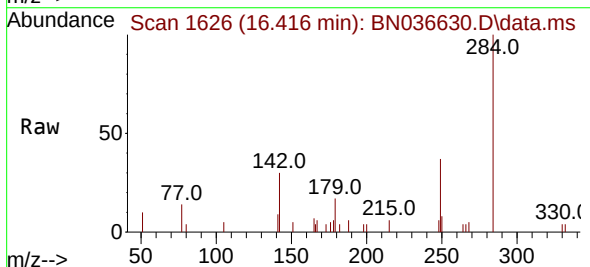
Manual Integrations
APPROVED

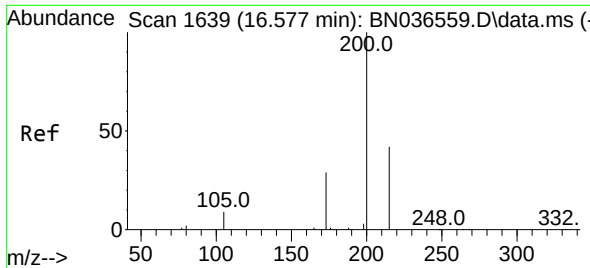
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#22
Hexachlorobenzene
Concen: 0.445 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

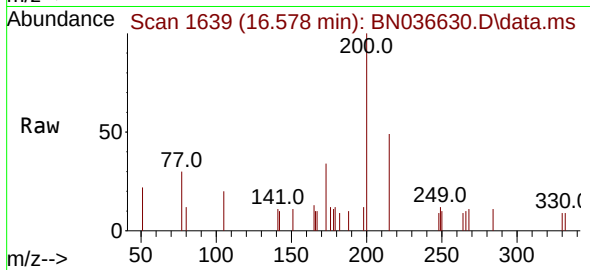
Tgt Ion:284 Resp: 1711
Ion Ratio Lower Upper
284 100
142 48.5 37.0 55.4
249 36.5 28.1 42.1





#23
Atrazine
Concen: 0.408 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

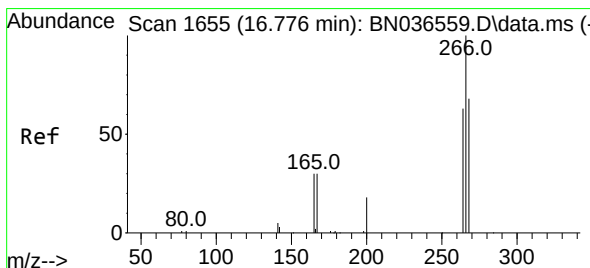
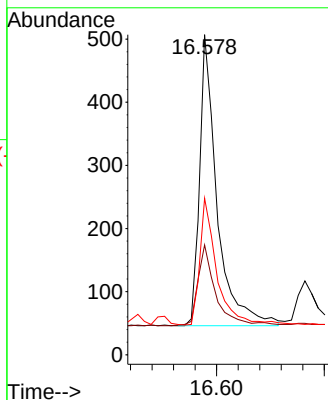
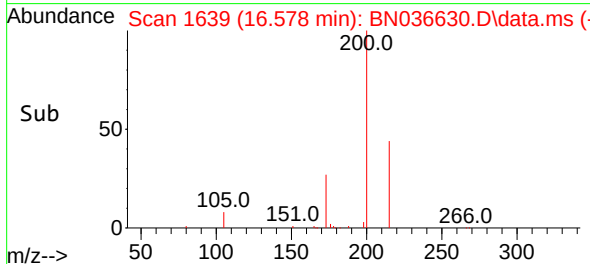
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion:200 Resp: 104
Ion Ratio Lower Upper
200 100
173 34.3 27.3 40.9
215 48.9 36.8 55.2

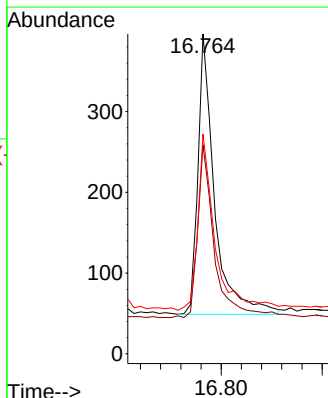
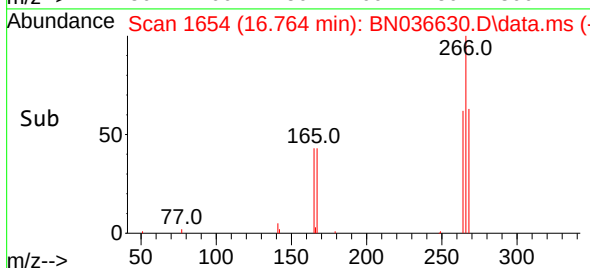
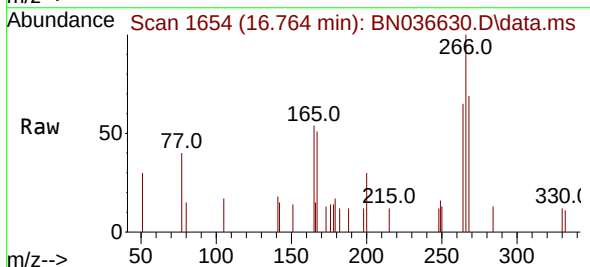
Manual Integrations
APPROVED

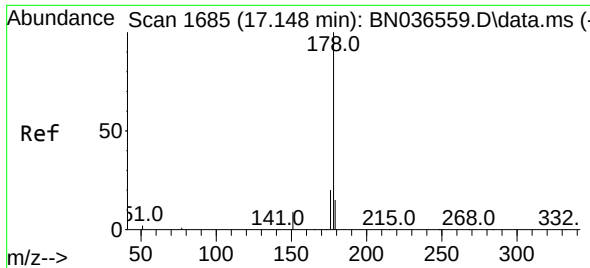
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#24
Pentachlorophenol
Concen: 0.453 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

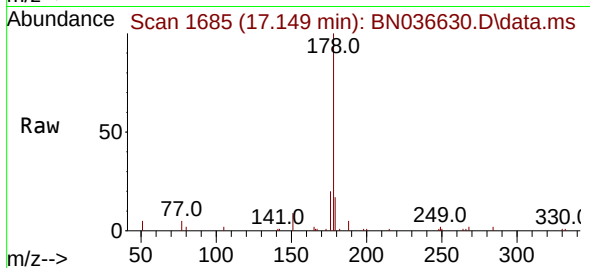
Tgt Ion:266 Resp: 795
Ion Ratio Lower Upper
266 100
264 61.5 49.6 74.4
268 65.2 50.9 76.3





#25
Phenanthrene
Concen: 0.419 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

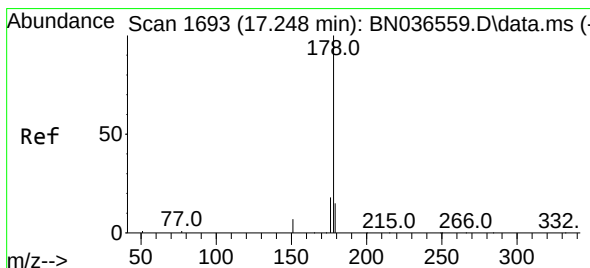
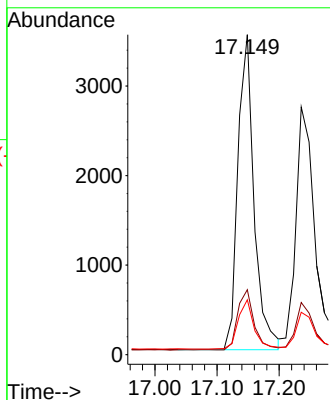
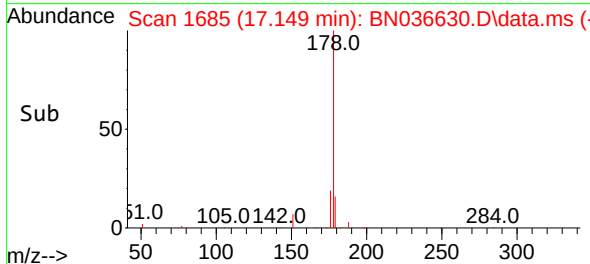
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion:178 Resp: 6384
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.4 12.2 18.4

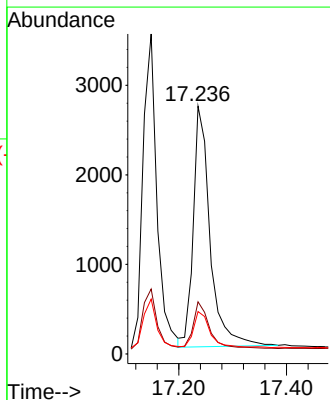
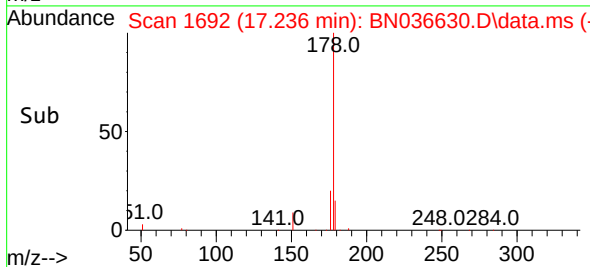
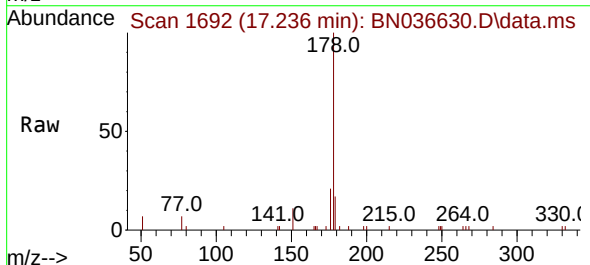
Manual Integrations
APPROVED

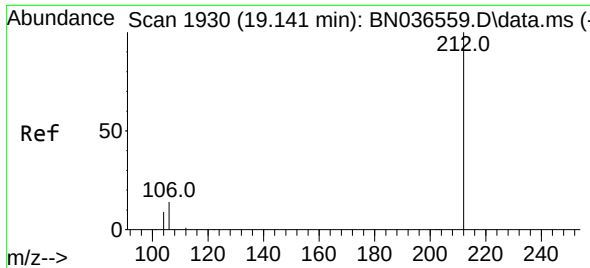
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#26
Anthracene
Concen: 0.424 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

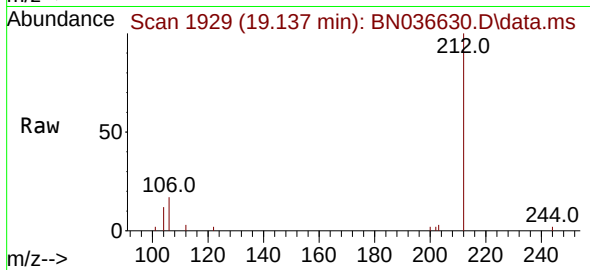
Tgt Ion:178 Resp: 5840
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.1 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.137 min Scan# 1930
Delta R.T. -0.004 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

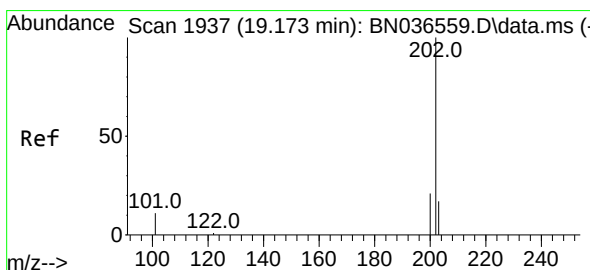
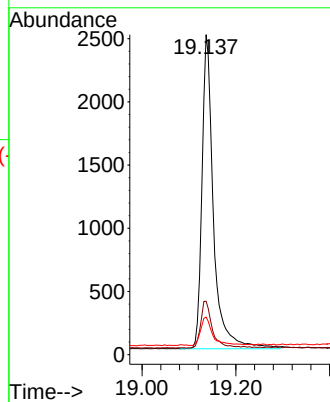
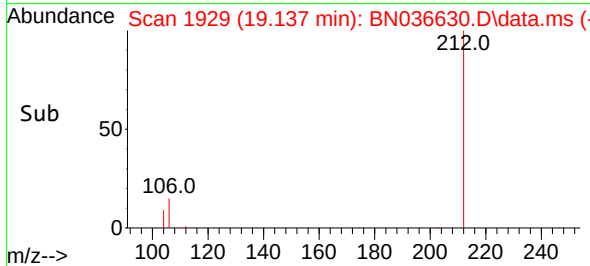
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion:212 Resp: 4224
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 9.2 7.3 10.9

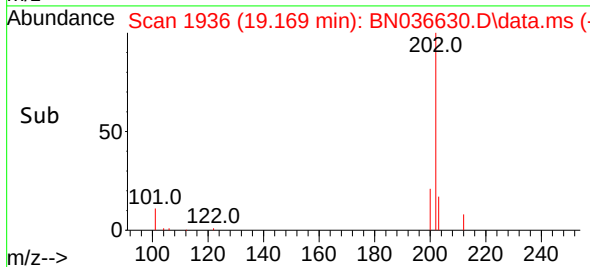
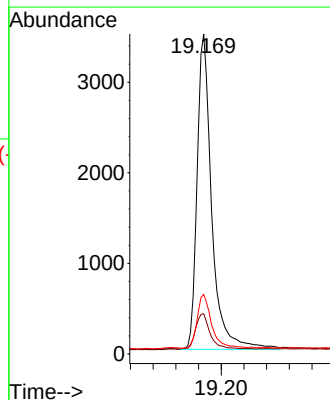
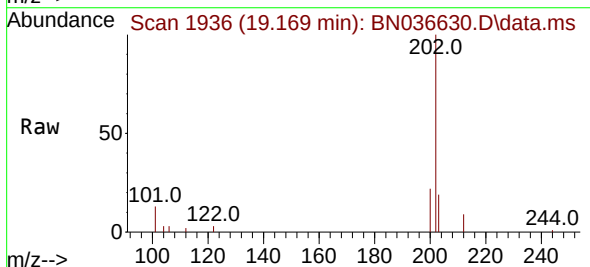
Manual Integrations
APPROVED

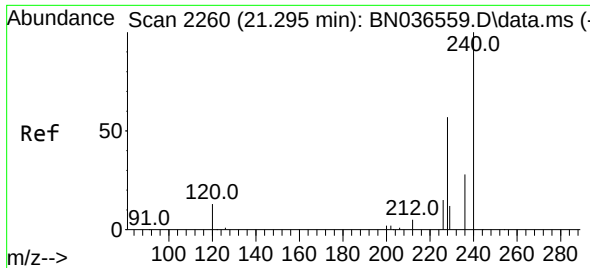
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#28
Fluoranthene
Concen: 0.363 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Tgt Ion:202 Resp: 6217
Ion Ratio Lower Upper
202 100
101 11.1 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: BN036630.D

Acq: 15 Mar 2025 05:28

Instrument :

BNA_N

ClientSampleId :

PB167128BS

Tgt Ion:240 Resp: 2789

Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

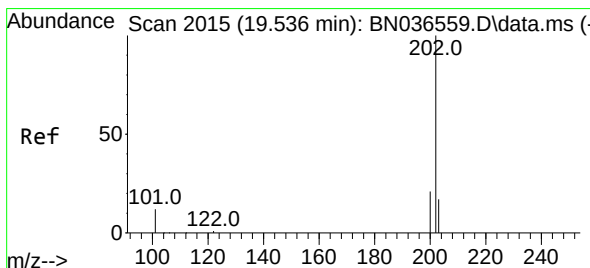
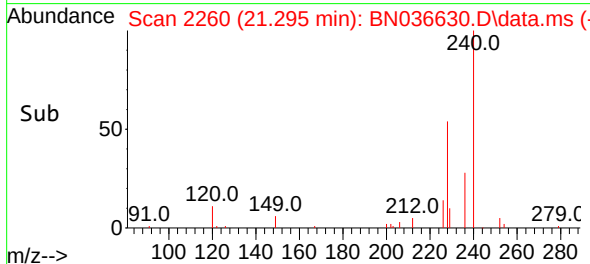
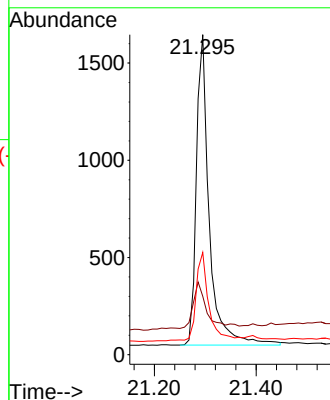
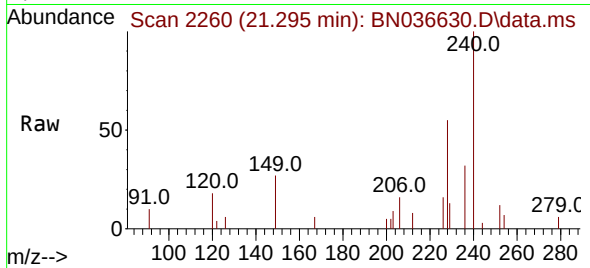
236 32.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



#30

Pyrene

Concen: 0.464 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.004 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

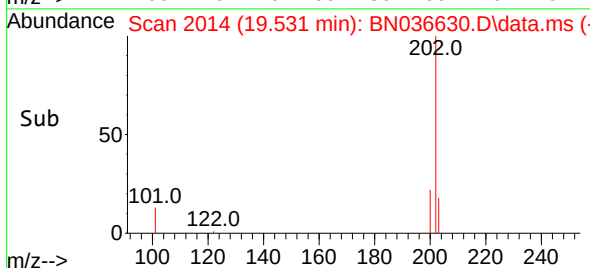
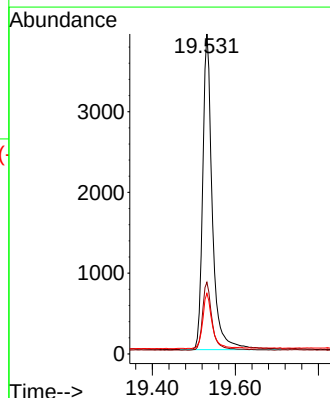
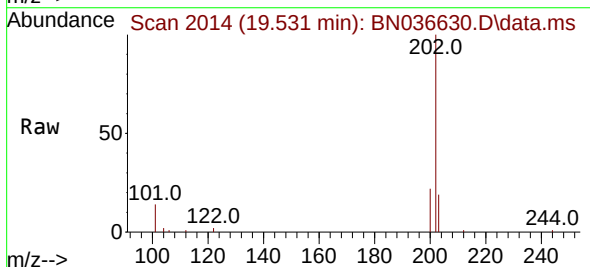
Tgt Ion:202 Resp: 6327

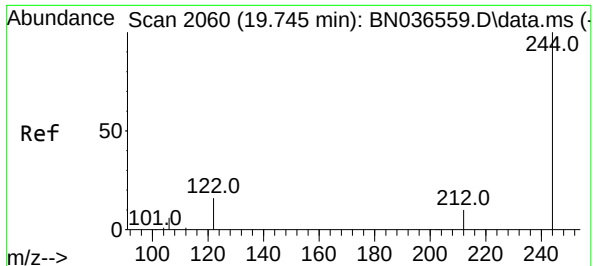
Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 17.1 14.1 21.1





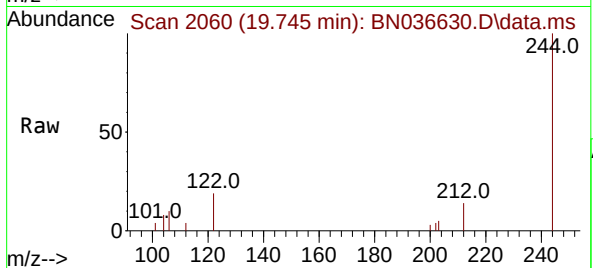
#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

Instrument :

BNA_N

ClientSampleId :

PB167128BS

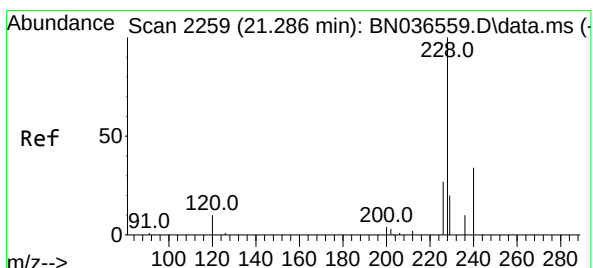
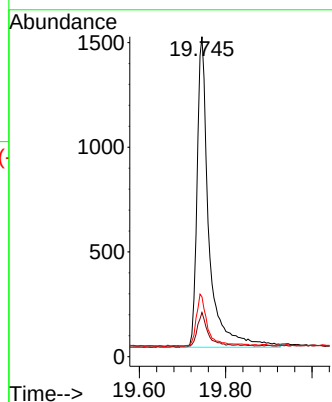


Tgt Ion:244 Resp: 2825
Ion Ratio Lower Upper
244 100
212 13.8 9.6 14.4
122 18.7 13.9 20.9

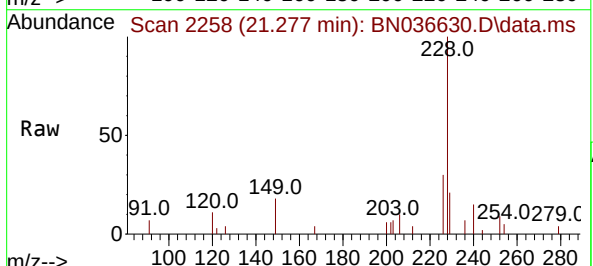
Manual Integrations

APPROVED

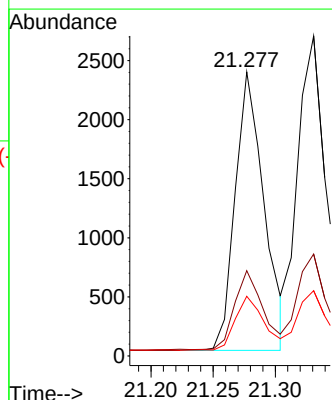
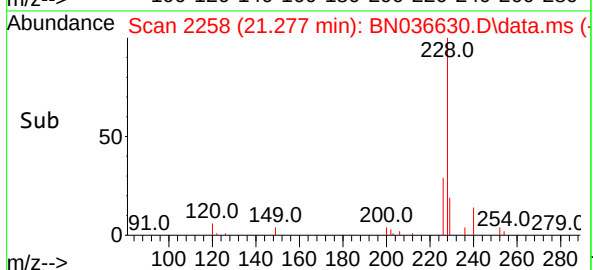
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

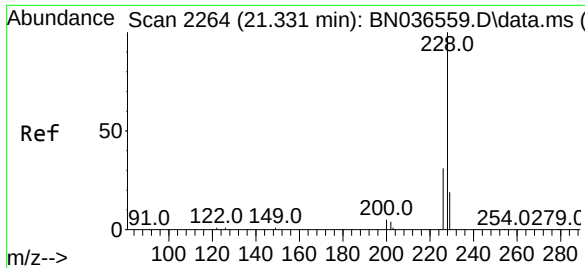


#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28



Tgt Ion:228 Resp: 3798
Ion Ratio Lower Upper
228 100
226 30.0 22.5 33.7
229 21.0 16.6 25.0





#33

Chrysene

Concen: 0.452 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

Instrument :

BNA_N

ClientSampleId :

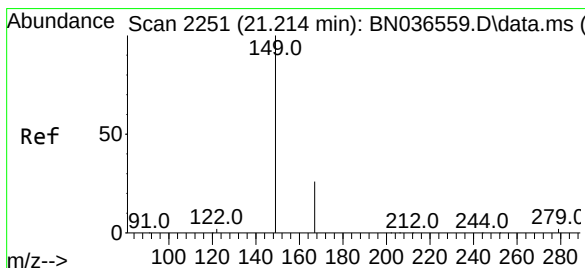
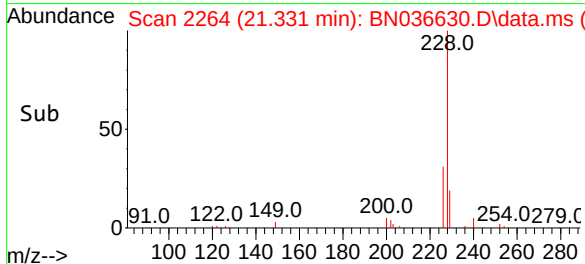
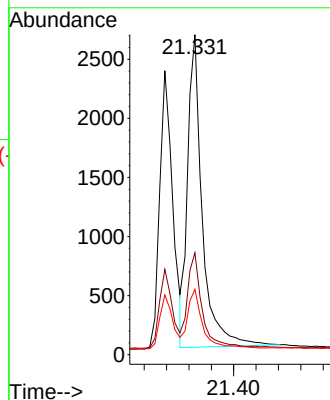
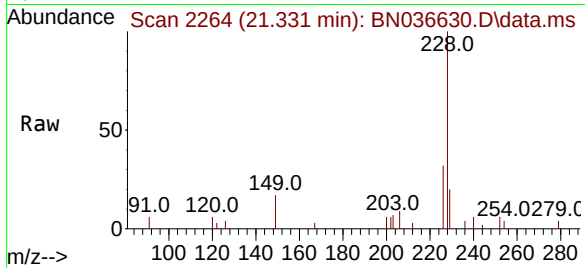
PB167128BS

Tgt Ion:	228	Resp:	479
Ion Ratio	Lower	Upper	
228	100		
226	31.9	25.3	37.9
229	20.4	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.348 ng m

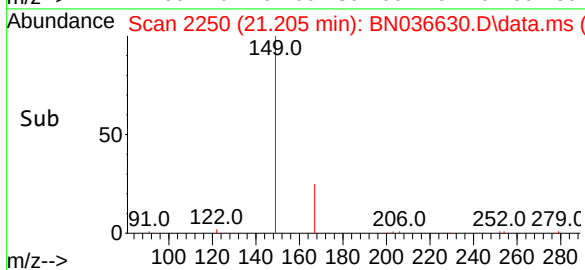
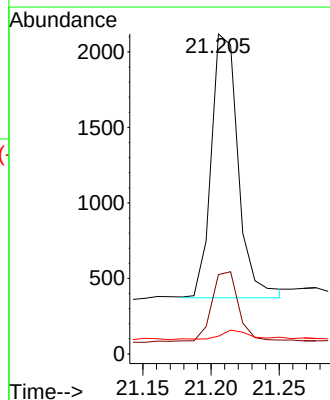
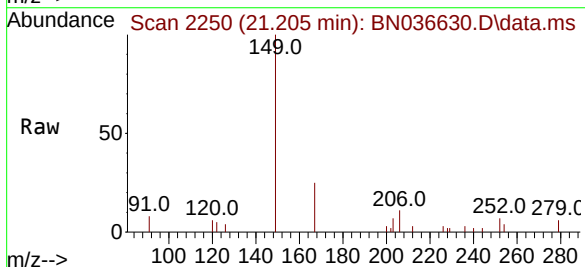
RT: 21.205 min Scan# 2250

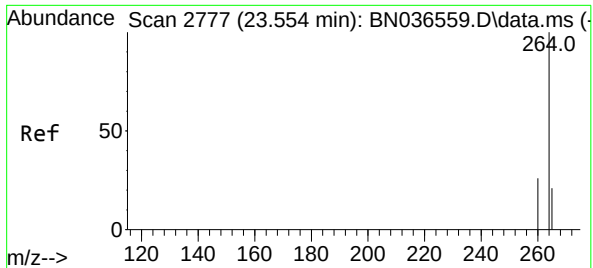
Delta R.T. -0.009 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

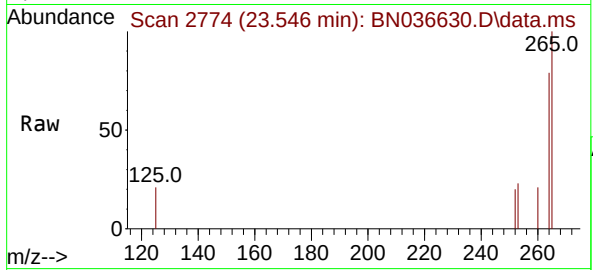
Tgt Ion:	149	Resp:	2402
Ion Ratio	Lower	Upper	
149	100		
167	26.6	20.7	31.1
279	5.0	3.6	5.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

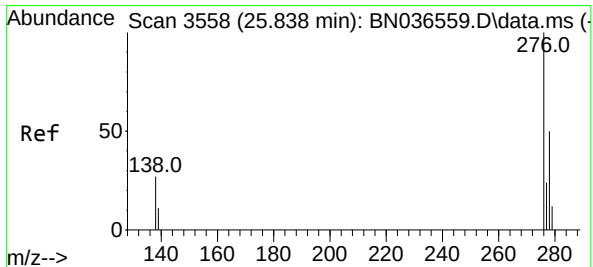
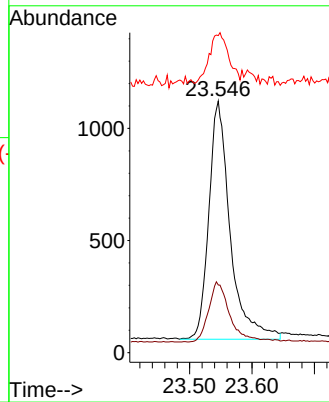
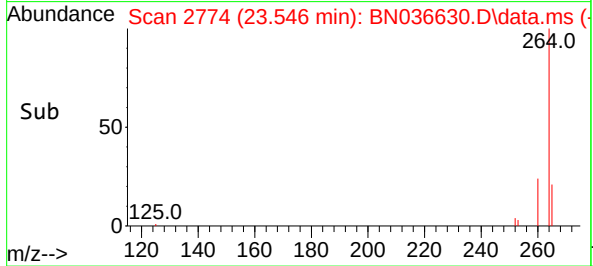
Instrument :
BNA_N
ClientSampleId :
PB167128BS



Tgt Ion:264 Resp: 252
Ion Ratio Lower Upper
264 100
260 26.9 22.6 33.8
265 126.0 88.1 132.1

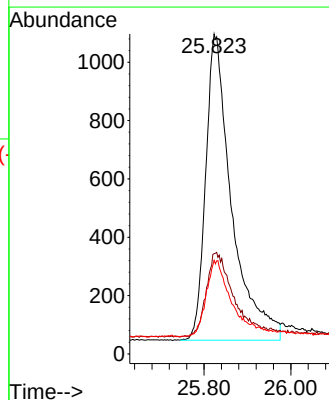
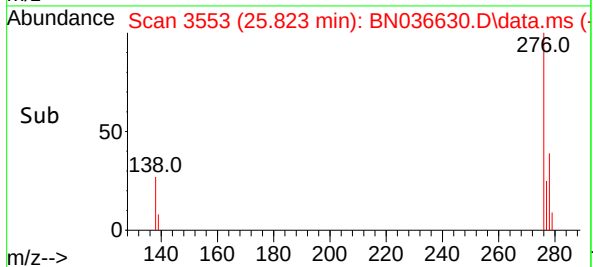
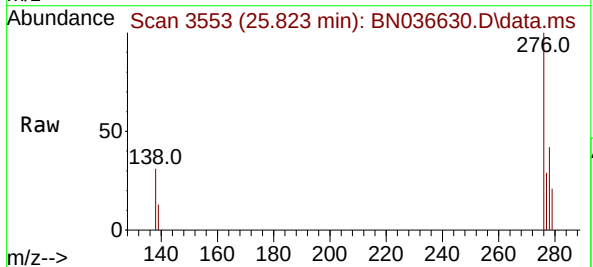
Manual Integrations
APPROVED

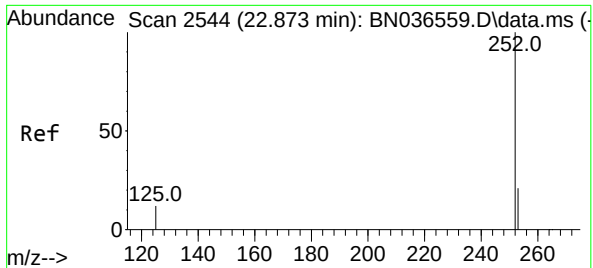
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.479 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

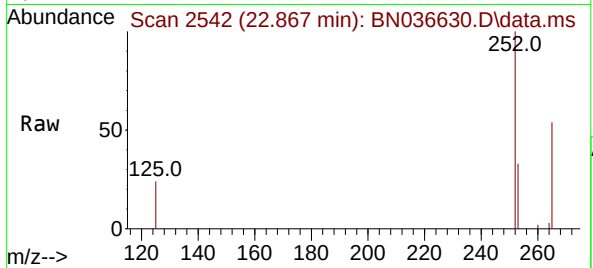
Tgt Ion:276 Resp: 4361
Ion Ratio Lower Upper
276 100
138 28.4 23.4 35.2
277 9.2 20.0 30.0#





#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.867 min Scan# 2542
Delta R.T. -0.006 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28

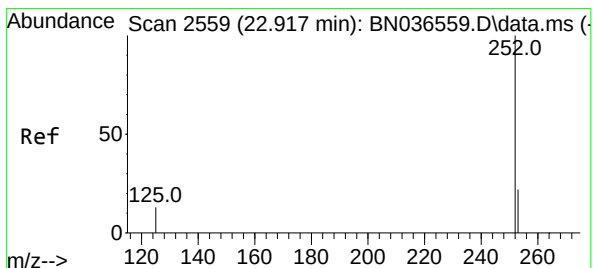
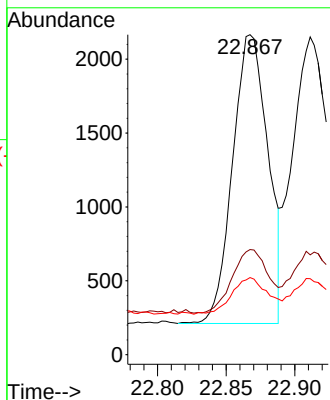
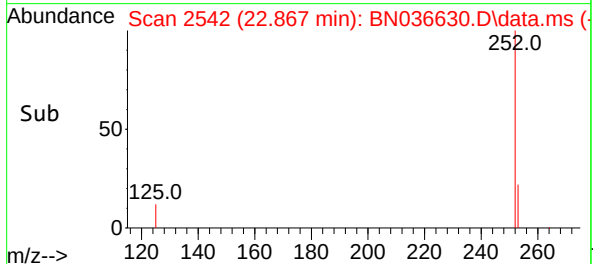
Instrument :
BNA_N
ClientSampleId :
PB167128BS



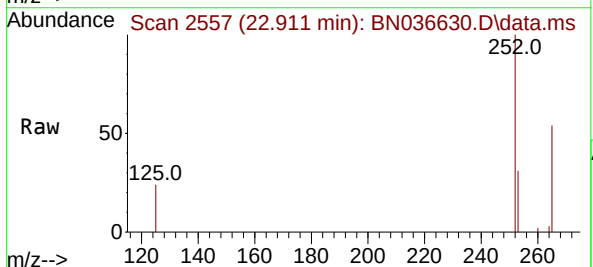
Tgt Ion:252 Resp: 3490
Ion Ratio Lower Upper
252 100
253 32.9 23.9 35.9
125 24.1 17.4 26.2

Manual Integrations
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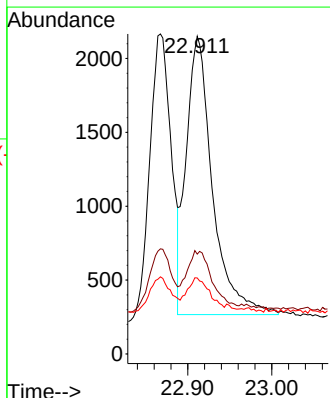
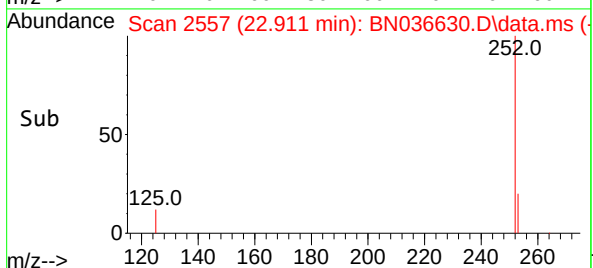
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

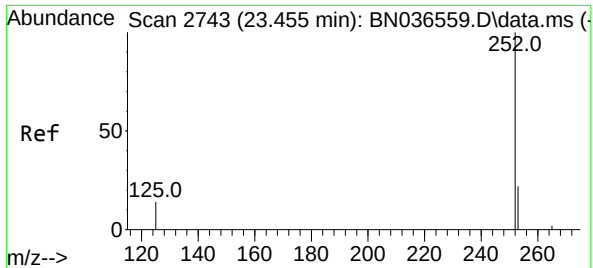


#38
Benzo(k)fluoranthene
Concen: 0.426 ng m
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036630.D
Acq: 15 Mar 2025 05:28



Tgt Ion:252 Resp: 4099
Ion Ratio Lower Upper
252 100
253 31.4 24.6 36.8
125 23.9 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.449 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

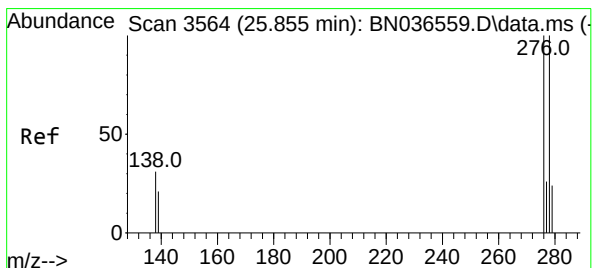
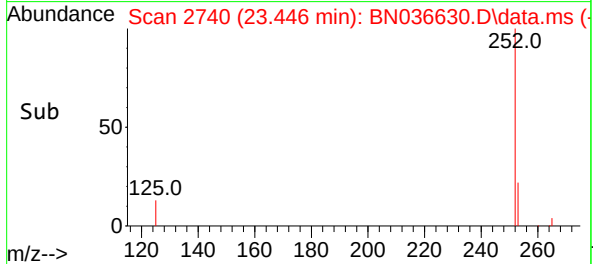
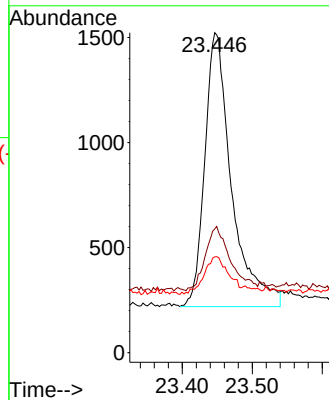
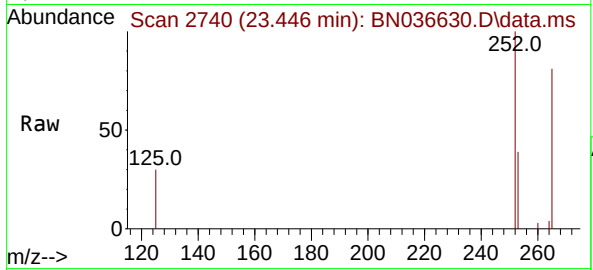
Instrument :

BNA_N

ClientSampleId :

PB167128BS

Tgt Ion:	252	Resp:	347
Ion Ratio	Lower	Upper	
252	100		
253	38.7	27.8	41.8
125	29.9	22.7	34.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.471 ng

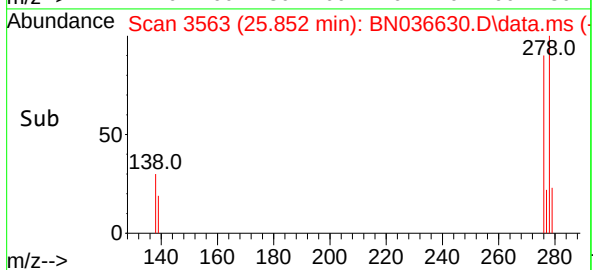
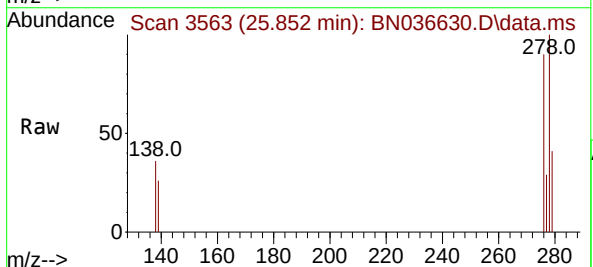
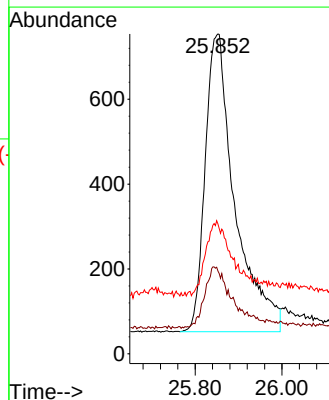
RT: 25.852 min Scan# 3563

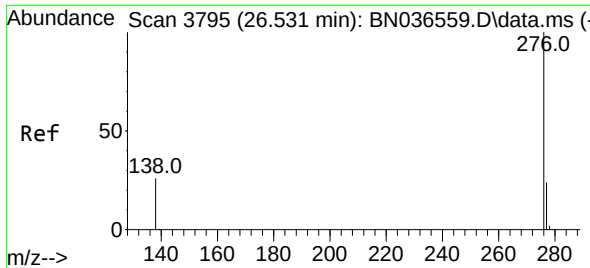
Delta R.T. -0.003 min

Lab File: BN036630.D

Acq: 15 Mar 2025 05:28

Tgt Ion:	278	Resp:	3336
Ion Ratio	Lower	Upper	
278	100		
139	25.9	20.8	31.2
279	40.6	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.448 ng

RT: 26.516 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN036630.D

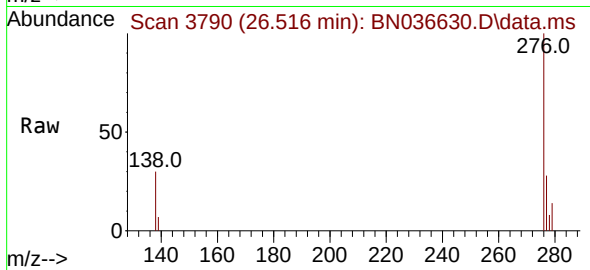
Acq: 15 Mar 2025 05:28

Instrument :

BNA_N

ClientSampleId :

PB167128BS



Tgt Ion: 276 Resp: 3628

Ion Ratio Lower Upper

276 100

277 27.8 22.2 33.4

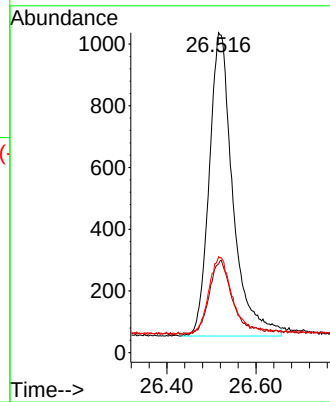
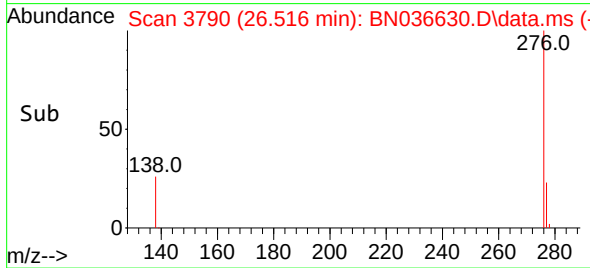
138 30.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	03/12/25
Project:	NJ Waste Water PT		Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS		SDG No.:	Q1502
Lab Sample ID:	Q1557-04MS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036611.D	1	03/13/25 12:40	03/14/25 17:24	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.41		0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.44		0.040	0.10	ug/L
83-32-9	Acenaphthene	0.43		0.040	0.10	ug/L
86-73-7	Fluorene	0.44		0.040	0.10	ug/L
85-01-8	Phenanthrene	0.50		0.030	0.10	ug/L
120-12-7	Anthracene	0.51		0.040	0.10	ug/L
206-44-0	Fluoranthene	0.52		0.030	0.10	ug/L
129-00-0	Pyrene	0.50		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.50		0.040	0.10	ug/L
218-01-9	Chrysene	0.51		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.51		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.55		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.53		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.52		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.49		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.48		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		20 - 139	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150	107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		27 - 154	84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		25 - 149	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65		54 - 175	163%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2250		7.717		
1146-65-2	Naphthalene-d8	5350		10.509		
15067-26-2	Acenaphthene-d10	3240		14.356		
1517-22-2	Phenanthrene-d10	6300		17.099		
1719-03-5	Chrysene-d12	4670		21.295		
1520-96-3	Perylene-d12	3900		23.543		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	03/12/25
Project:	NJ Waste Water PT		Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MS		SDG No.:	Q1502
Lab Sample ID:	Q1557-04MS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036611.D	1	03/13/25 12:40	03/14/25 17:24	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
 Data File : BN036611.D
 Acq On : 14 Mar 2025 17:24
 Operator : RC/JU
 Sample : Q1557-04MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-9-20250312MS

Quant Time: Mar 14 18:28:22 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 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2246	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5352	0.400	ng	# 0.00
13) Acenaphthene-d10	14.356	164	3243	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6301	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	4672	0.400	ng	# 0.00
35) Perylene-d12	23.543	264	3903	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	892	0.170	ng	0.00
5) Phenol-d6	6.894	99	609	0.094	ng	0.00
8) Nitrobenzene-d5	8.865	82	1950	0.335	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2972m	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	560	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	6929	0.367	ng	0.00
27) Fluoranthene-d10	19.137	212	6898	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	7294	0.652	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	551	0.221	ng	# 44
3) n-Nitrosodimethylamine	3.550	42	1012	0.201	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2609	0.390	ng	96
9) Naphthalene	10.552	128	6352	0.403	ng	100
10) Hexachlorobutadiene	10.851	225	1397	0.377	ng	# 98
12) 2-Methylnaphthalene	12.172	142	4184	0.418	ng	99
16) Acenaphthylene	14.078	152	6731	0.440	ng	99
17) Acenaphthene	14.420	154	4265	0.426	ng	99
18) Fluorene	15.414	166	5836	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.500	198	594	0.514	ng	# 62
21) 4-Bromophenyl-phenylether	16.305	248	1836	0.465	ng	# 78
22) Hexachlorobenzene	16.416	284	2096	0.440	ng	97
23) Atrazine	16.578	200	1699	0.537	ng	# 94
24) Pentachlorophenol	16.764	266	1776	0.817	ng	99
25) Phenanthrene	17.149	178	9397	0.497	ng	100
26) Anthracene	17.236	178	8609	0.505	ng	100
28) Fluoranthene	19.169	202	10914	0.514	ng	99
30) Pyrene	19.531	202	11279	0.494	ng	100
32) Benzo(a)anthracene	21.277	228	8094	0.498	ng	99
33) Chrysene	21.331	228	9043	0.509	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	5667	0.490	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.823	276	7222	0.513	ng	99
37) Benzo(b)fluoranthene	22.864	252	7210	0.508	ng	93
38) Benzo(k)fluoranthene	22.911	252	8111	0.544	ng	94
39) Benzo(a)pyrene	23.446	252	6261	0.523	ng	# 91
40) Dibenzo(a,h)anthracene	25.844	278	5342	0.487	ng	95
41) Benzo(g,h,i)perylene	26.516	276	5906	0.471	ng	96

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

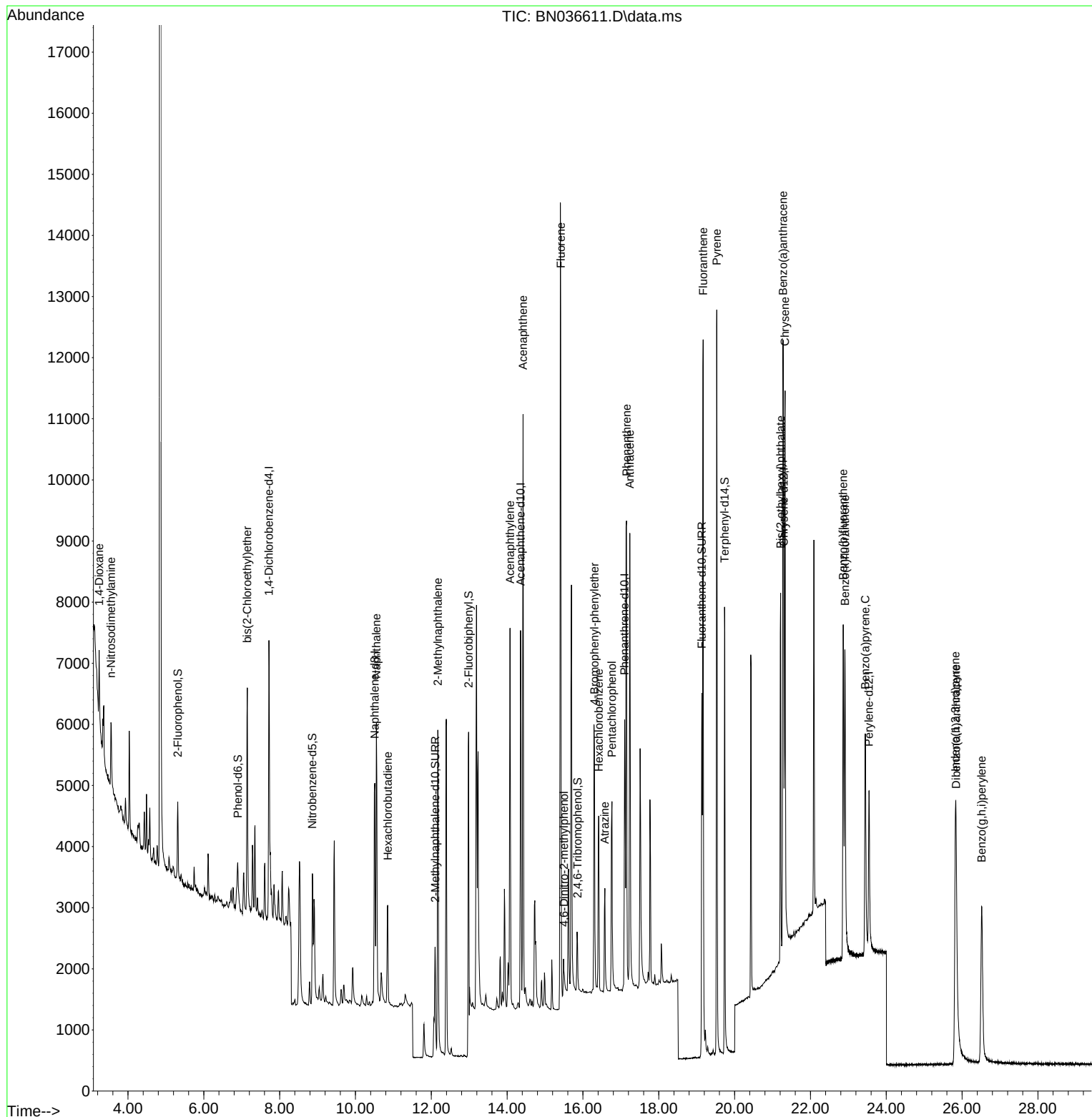
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Acq On : 14 Mar 2025 17:24
Operator : RC/JU
Sample : Q1557-04MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

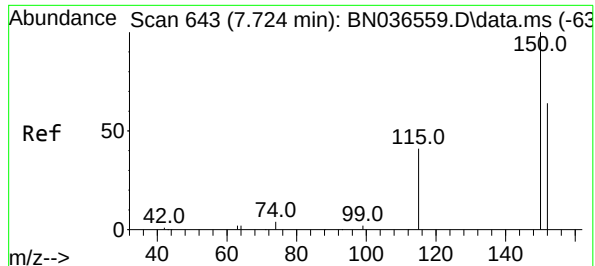
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Quant Time: Mar 14 18:28:22 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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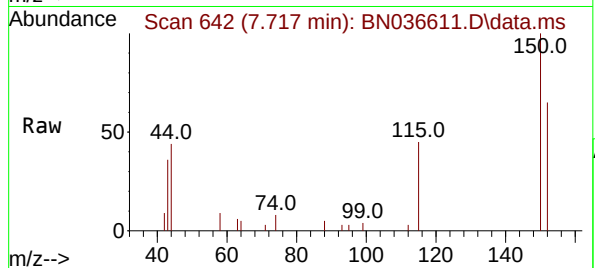
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

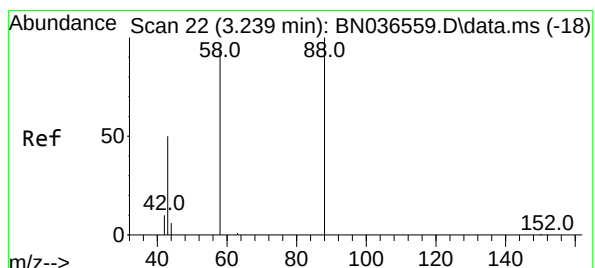
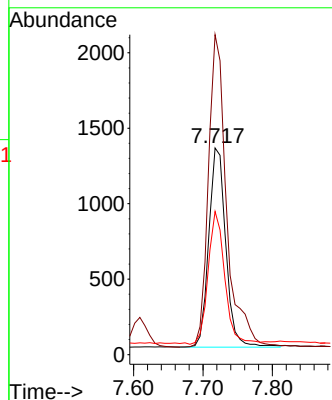
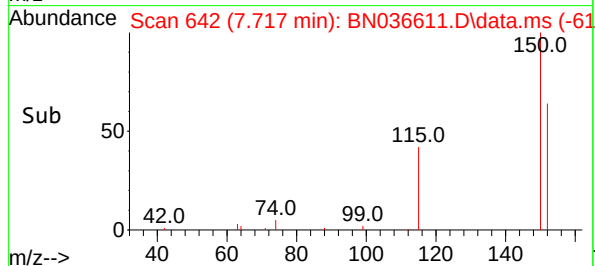
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:152 Resp: 2240
Ion Ratio Lower Upper
152 100
150 154.9 123.7 185.5
115 69.2 54.3 81.5

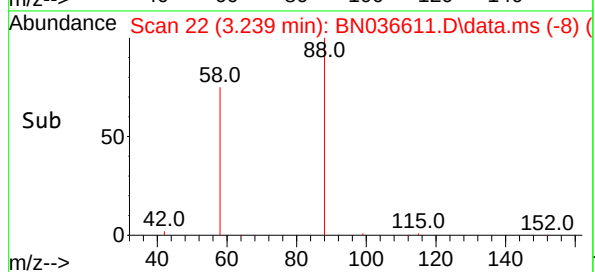
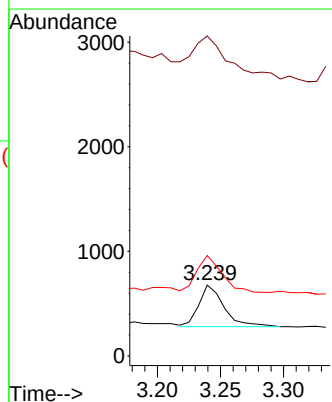
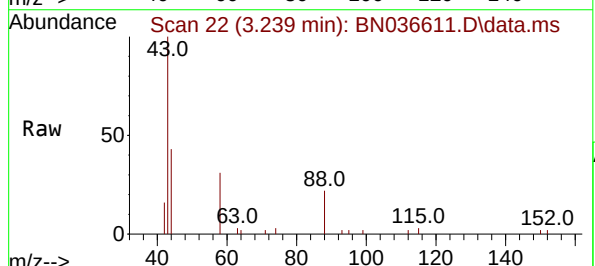
Manual Integrations
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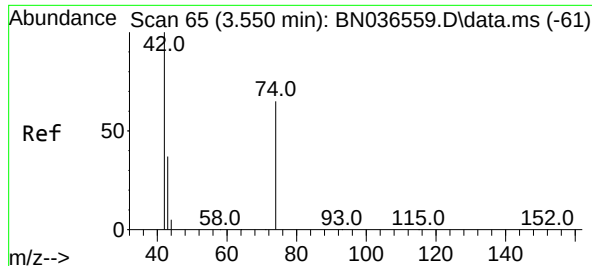
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#2
1,4-Dioxane
Concen: 0.221 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 88 Resp: 551
Ion Ratio Lower Upper
88 100
43 147.0 37.8 56.8#
58 88.2 67.4 101.2





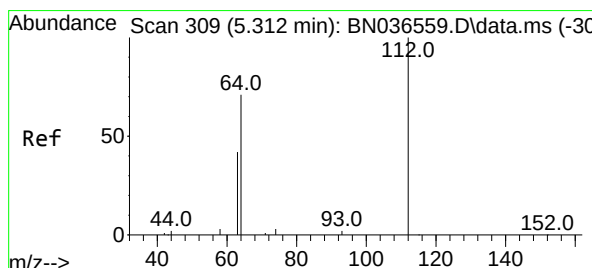
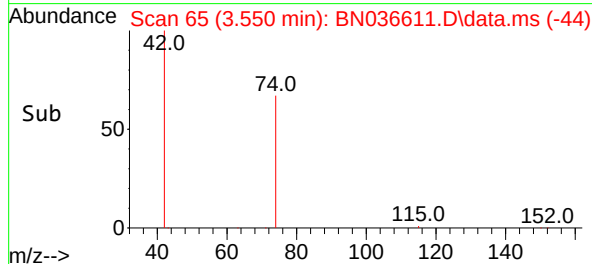
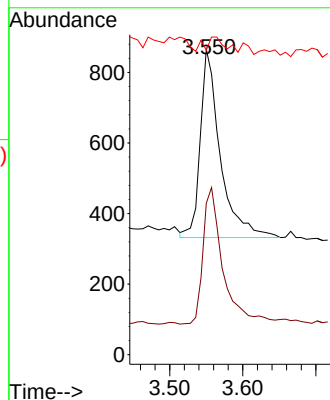
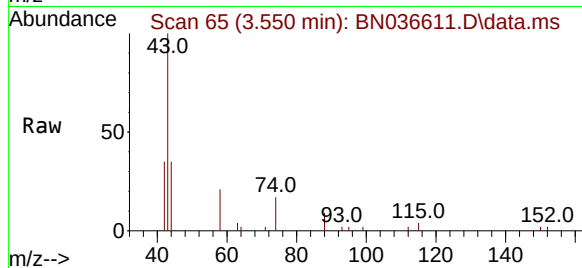
#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Tgt Ion: 42 Resp: 101
Ion Ratio Lower Upper
42 100
74 72.2 60.6 90.8
44 8.1 6.3 9.5

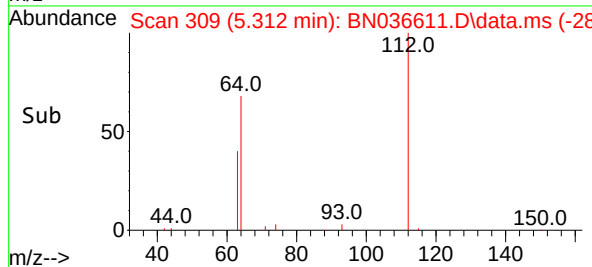
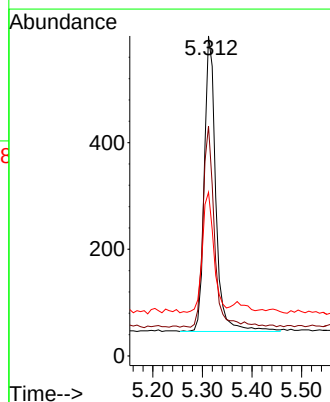
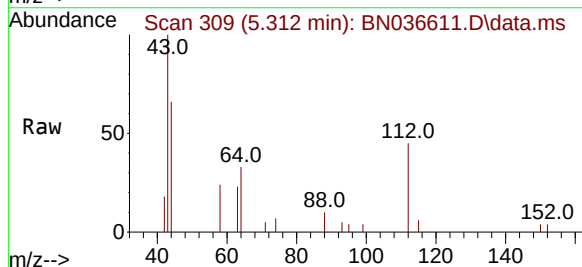
Manual Integrations
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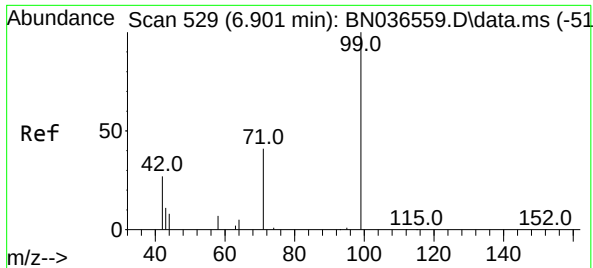
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:112 Resp: 892
Ion Ratio Lower Upper
112 100
64 67.2 53.1 79.7
63 40.1 31.8 47.8





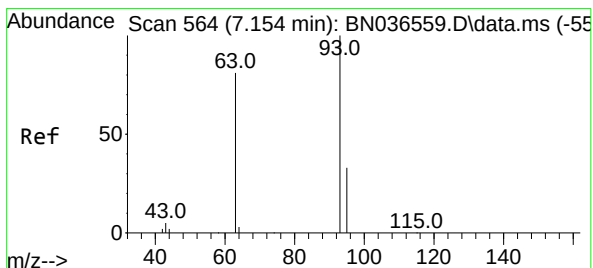
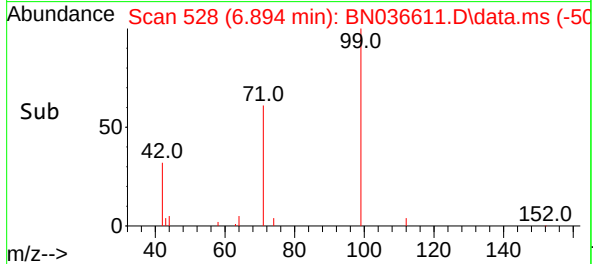
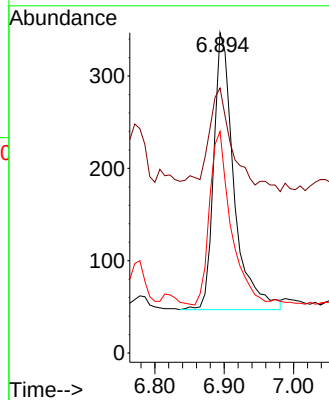
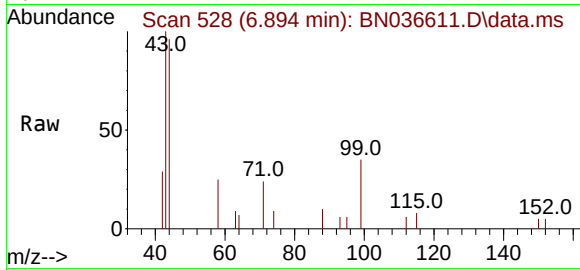
#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Tgt Ion: 99 Resp: 609
Ion Ratio Lower Upper
99 100
42 36.6 26.5 39.7
71 65.4 34.1 51.1

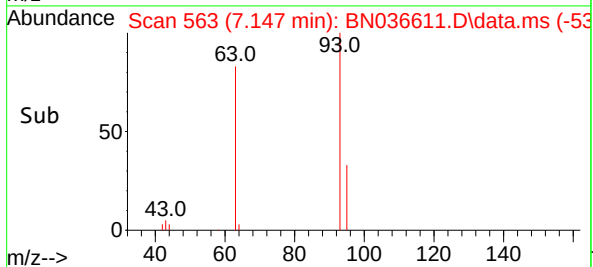
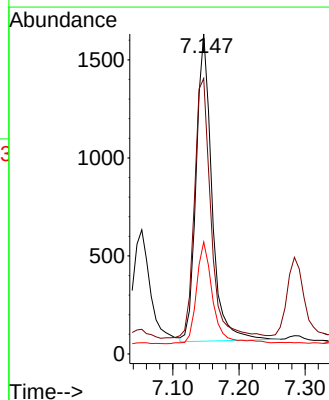
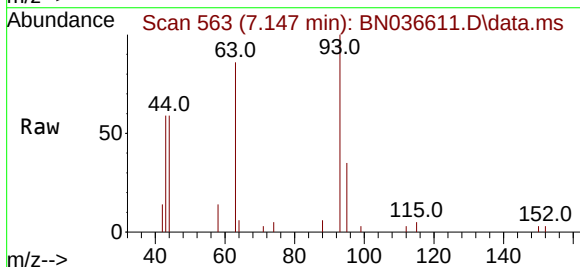
Manual Integrations
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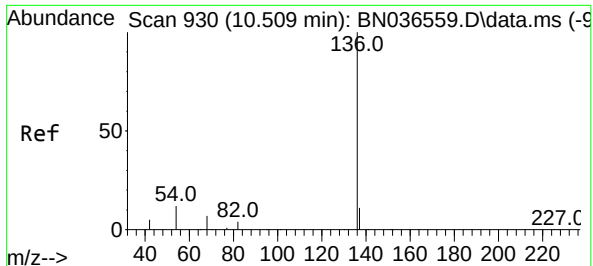
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.390 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

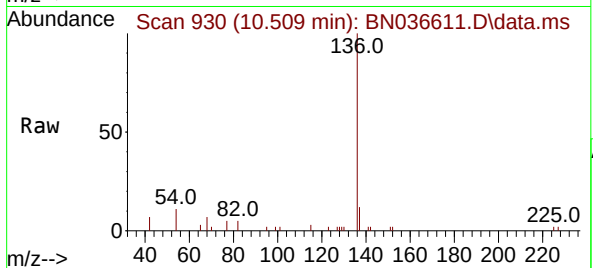
Tgt Ion: 93 Resp: 2609
Ion Ratio Lower Upper
93 100
63 88.4 67.7 101.5
95 34.5 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

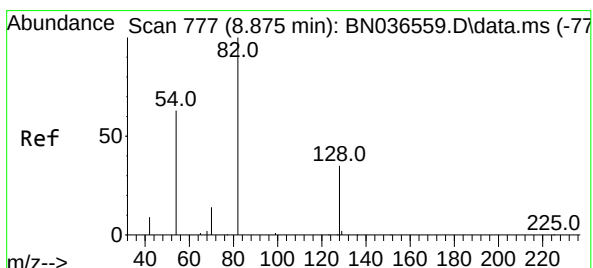
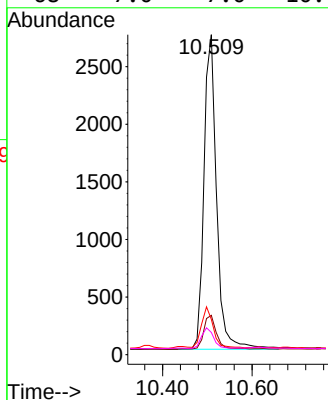
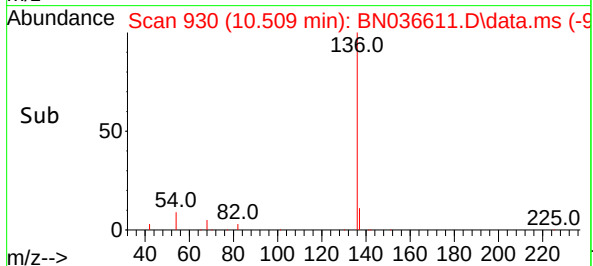
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion: 136 Resp: 535
Ion Ratio Lower Upper
136 100
137 12.3 10.3 15.5
54 11.1 11.5 17.3
68 7.0 7.0 10.4

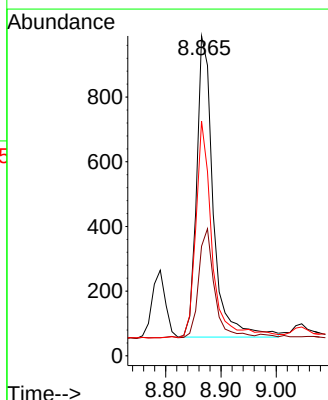
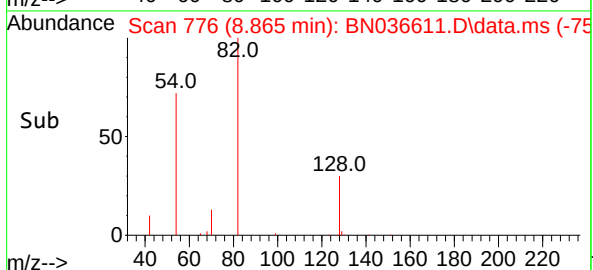
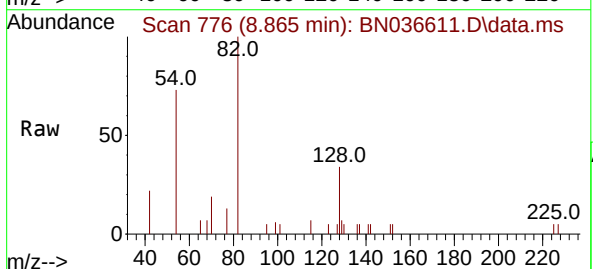
Manual Integrations
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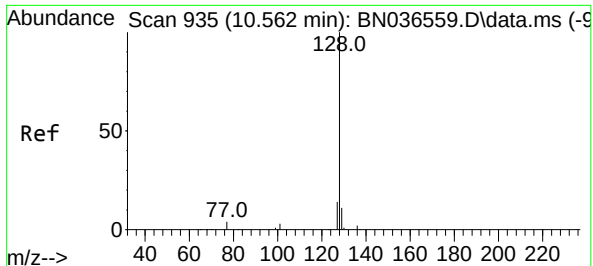
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#8
Nitrobenzene-d5
Concen: 0.335 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion: 82 Resp: 1950
Ion Ratio Lower Upper
82 100
128 34.3 30.6 45.8
54 73.4 52.2 78.4





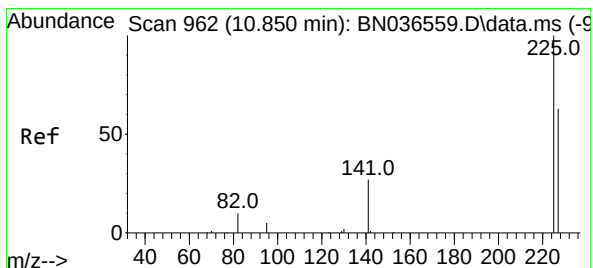
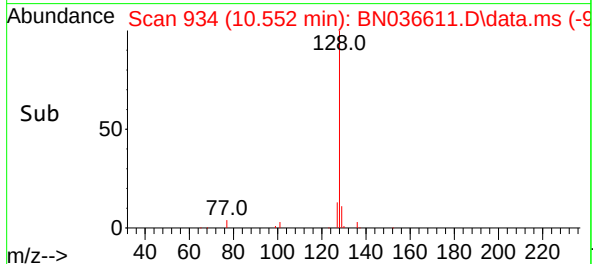
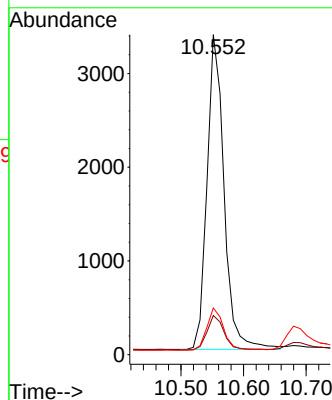
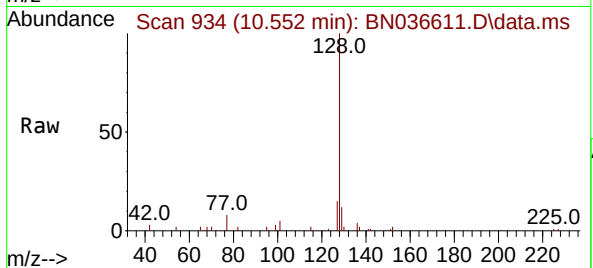
#9
Naphthalene
Concen: 0.403 ng
RT: 10.552 min Scan# 910
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Tgt Ion:128 Resp: 6352
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.6
127 14.6 11.8 17.8

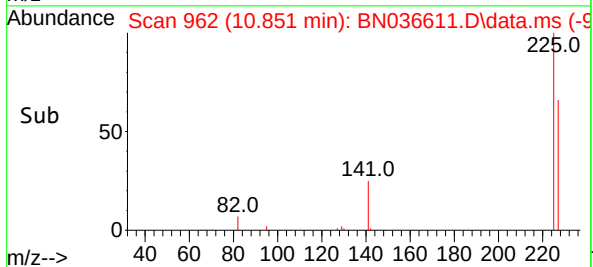
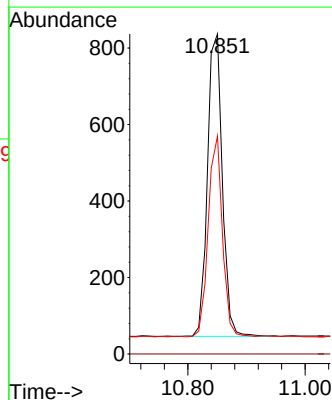
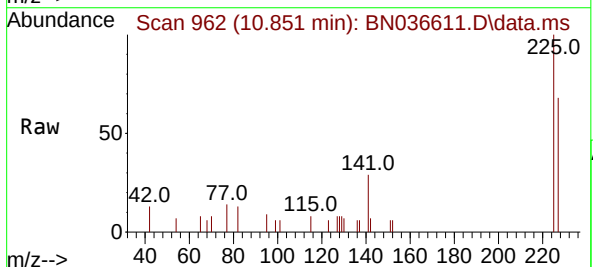
Manual Integrations
APPROVED

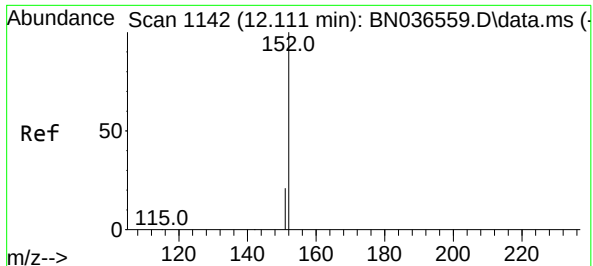
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:225 Resp: 1397
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.8 77.8





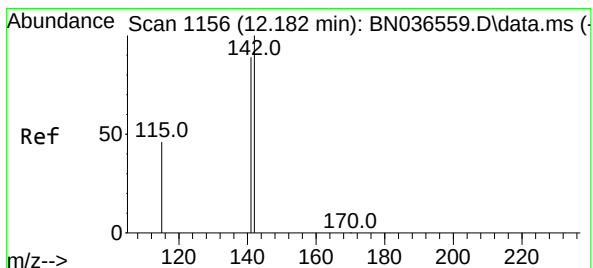
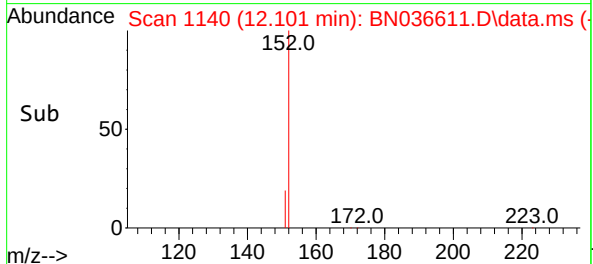
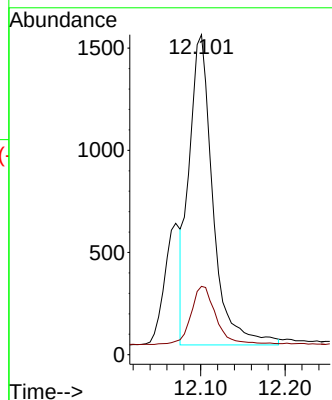
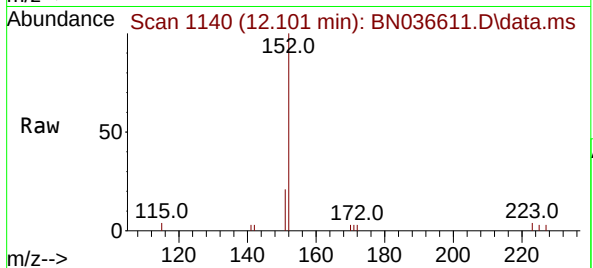
#11
2-Methylnaphthalene-d10
Concen: 0.373 ng m
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Tgt Ion:152 Resp: 2972
Ion Ratio Lower Upper
152 100
151 20.1 17.0 25.6

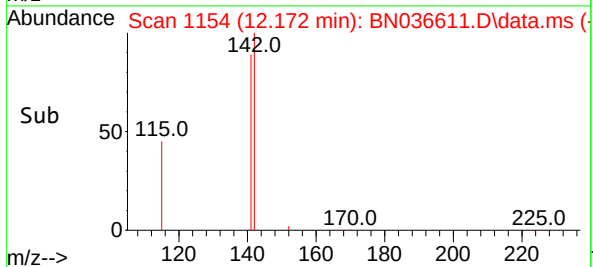
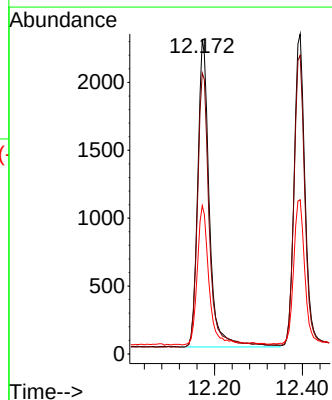
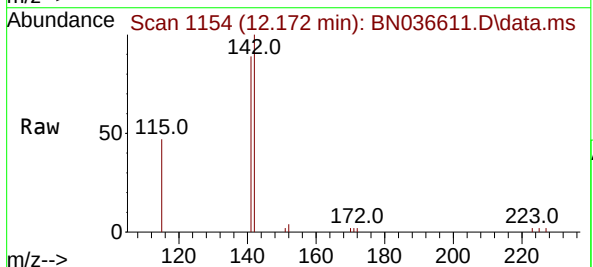
Manual Integrations
APPROVED

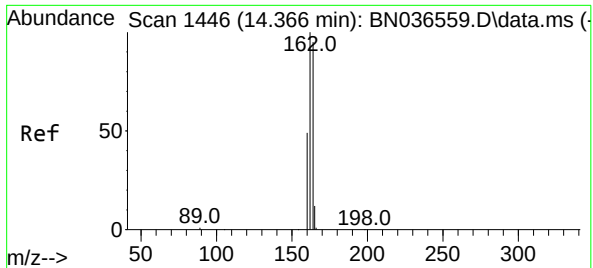
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#12
2-Methylnaphthalene
Concen: 0.418 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

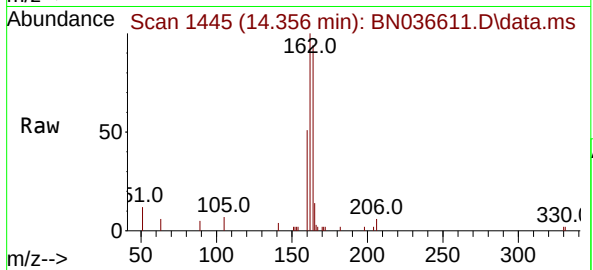
Tgt Ion:142 Resp: 4184
Ion Ratio Lower Upper
142 100
141 89.2 71.7 107.5
115 47.1 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

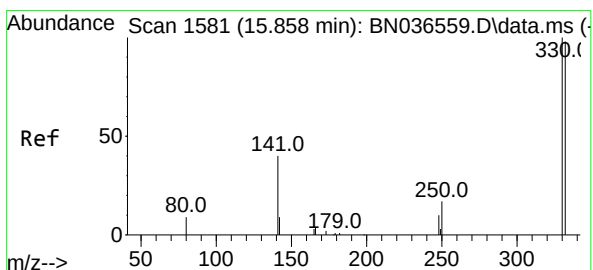
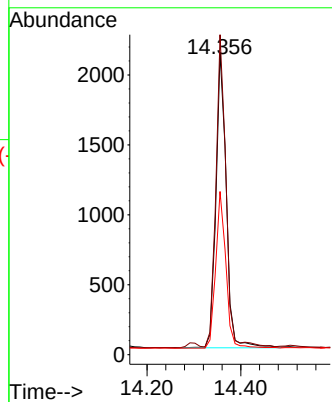
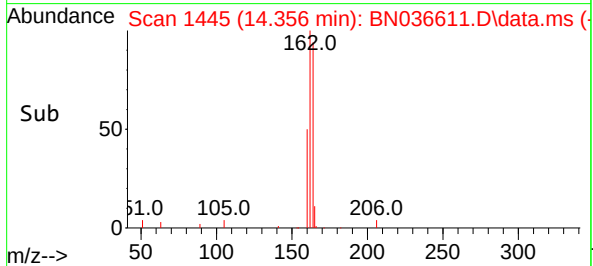
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



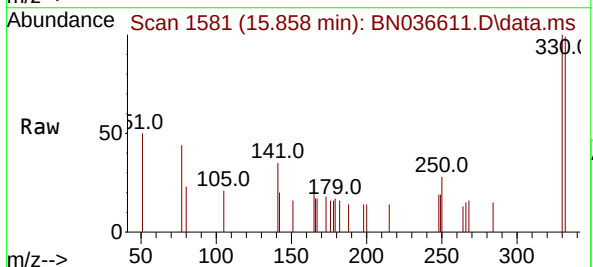
Tgt Ion:164 Resp: 324
Ion Ratio Lower Upper
164 100
162 105.9 84.2 126.2
160 54.0 42.2 63.2

Manual Integrations
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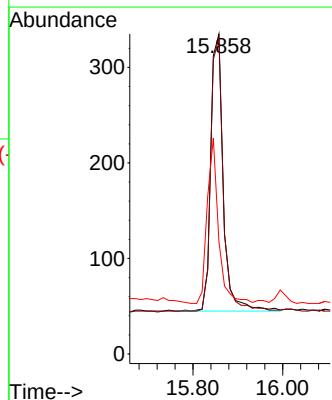
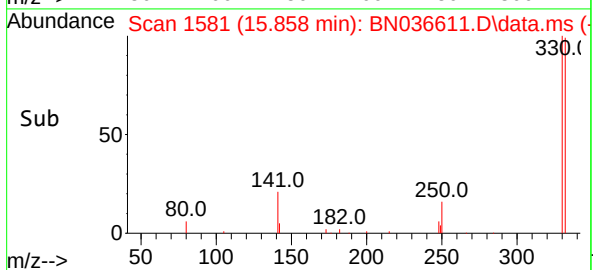
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

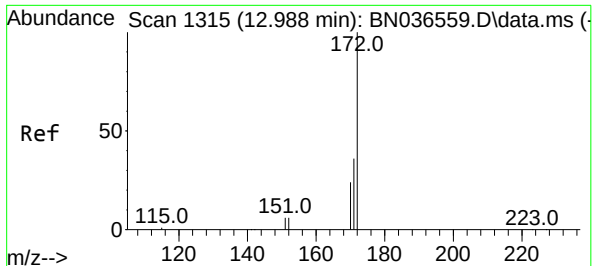


#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24



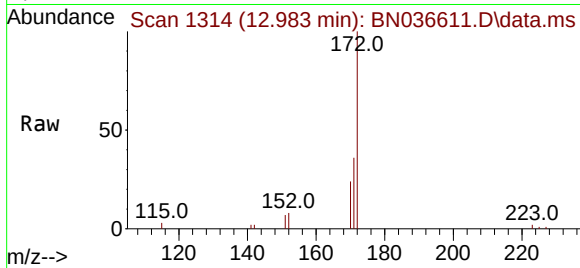
Tgt Ion:330 Resp: 560
Ion Ratio Lower Upper
330 100
332 97.1 75.2 112.8
141 53.8 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

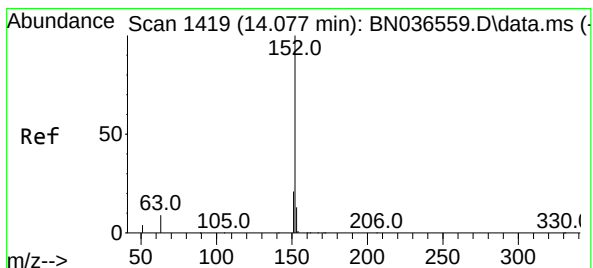
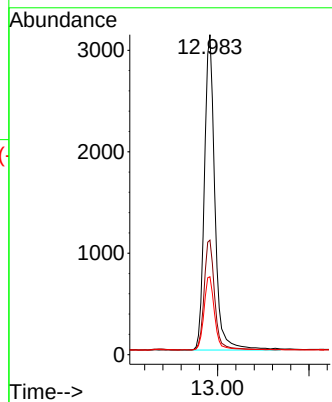
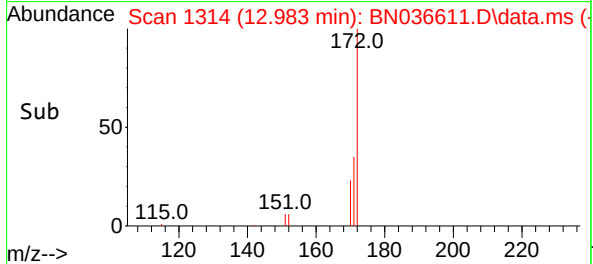
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:172 Resp: 6929
Ion Ratio Lower Upper
172 100
171 35.8 29.5 44.3
170 24.3 20.2 30.4

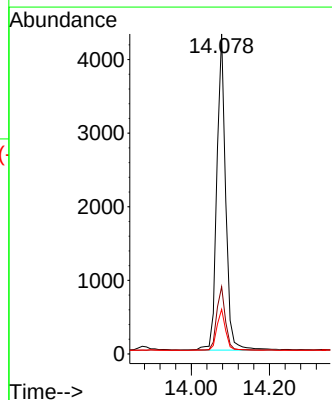
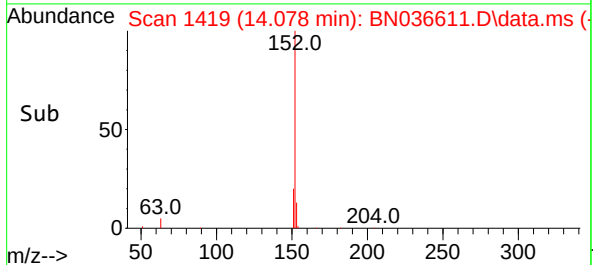
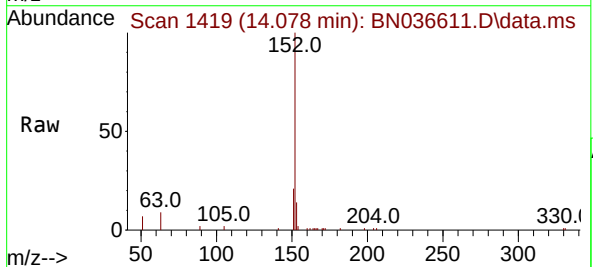
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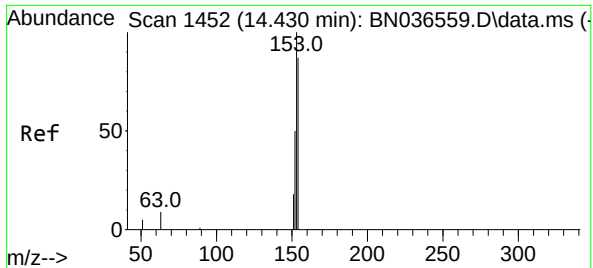
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#16
Acenaphthylene
Concen: 0.440 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

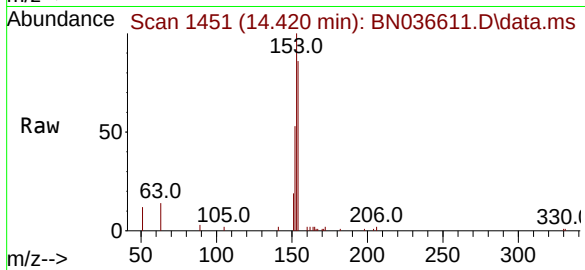
Tgt Ion:152 Resp: 6731
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 12.9 10.6 15.8





#17
Acenaphthene
Concen: 0.426 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.010 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

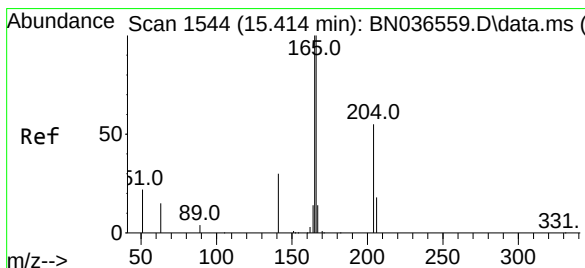
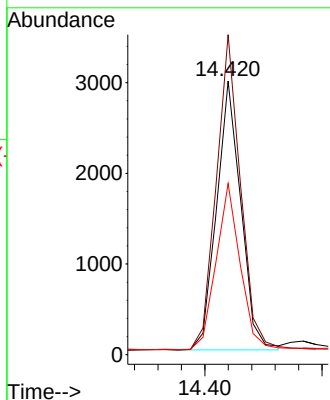
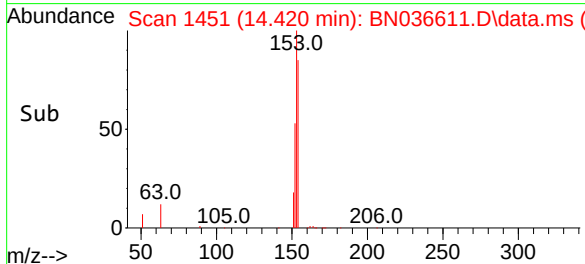
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:154 Resp: 426
Ion Ratio Lower Upper
154 100
153 119.0 94.1 141.1
152 62.3 49.8 74.6

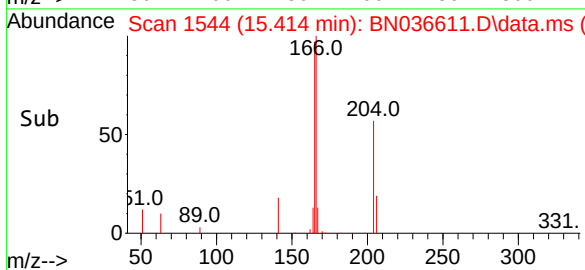
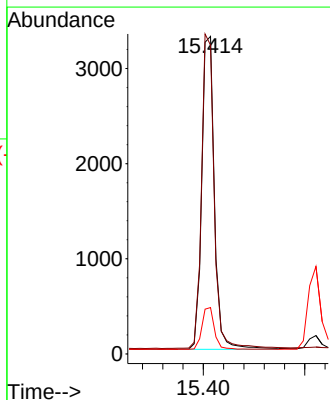
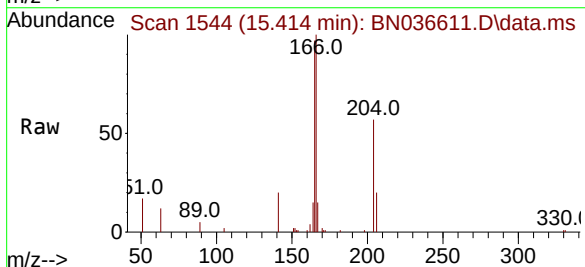
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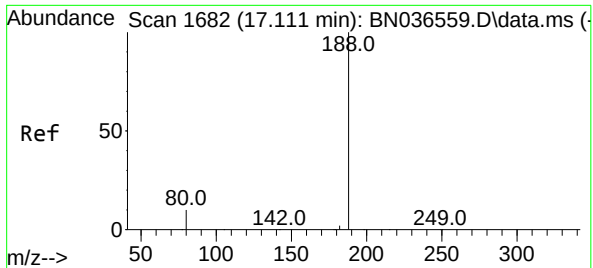
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#18
Fluorene
Concen: 0.431 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:166 Resp: 5836
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.8
167 12.9 10.6 15.8





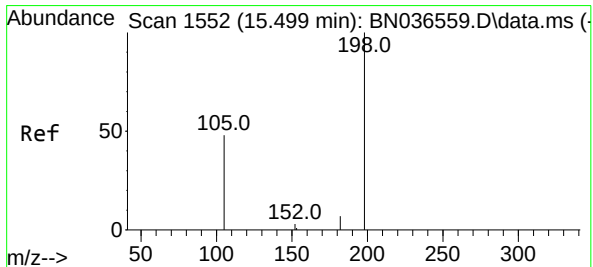
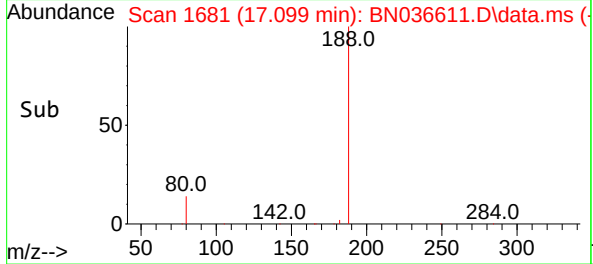
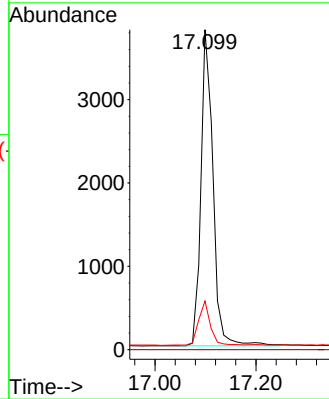
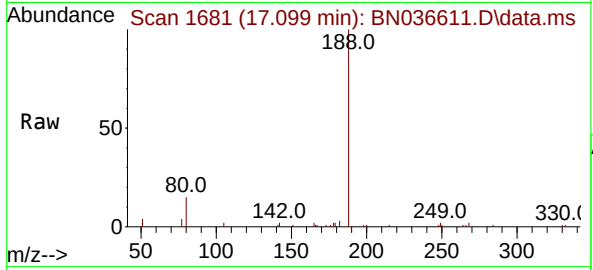
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS

Tgt Ion:188 Resp: 630
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.2 8.8 13.2

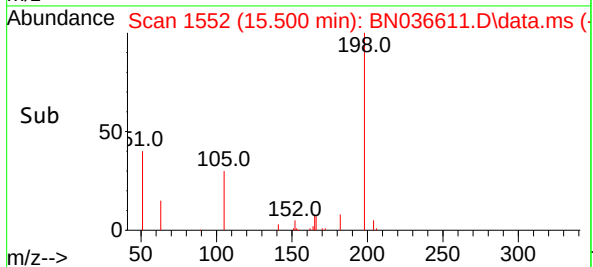
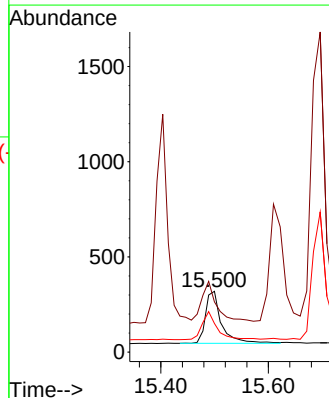
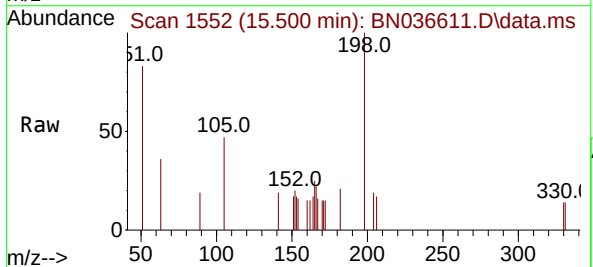
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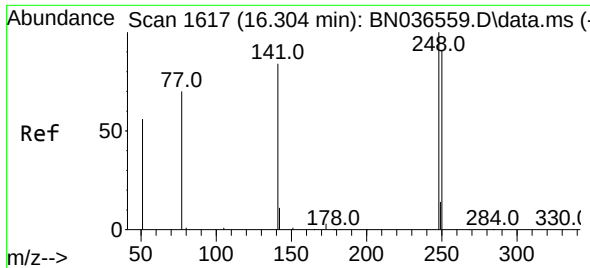
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.514 ng
RT: 15.500 min Scan# 1552
Delta R.T. 0.001 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

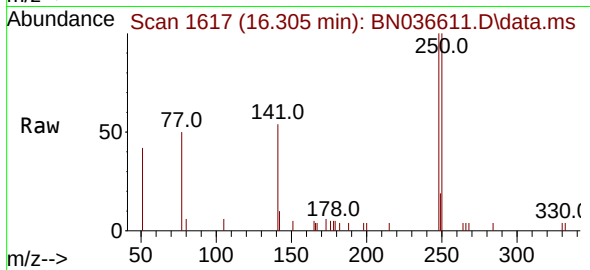
Tgt Ion:198 Resp: 594
Ion Ratio Lower Upper
198 100
51 82.8 107.9 161.9#
105 47.0 56.2 84.2#





#21
4-Bromophenyl-phenylether
Concen: 0.465 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

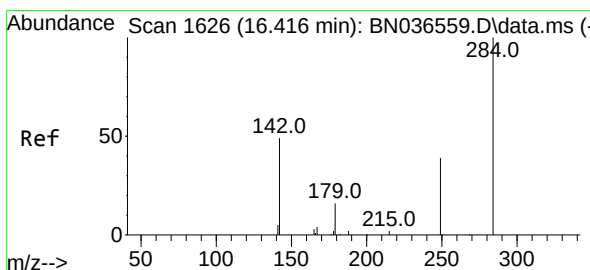
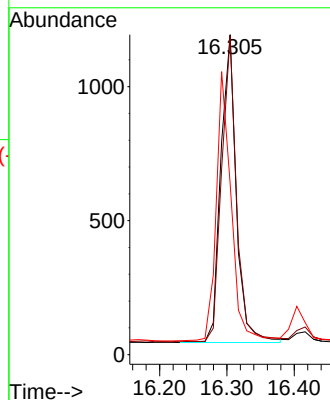
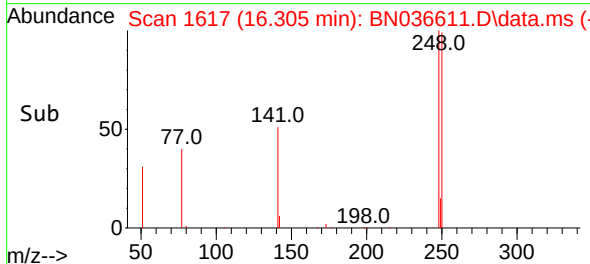
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:248 Resp: 1830
Ion Ratio Lower Upper
248 100
250 99.7 73.0 109.6
141 53.6 68.6 103.0

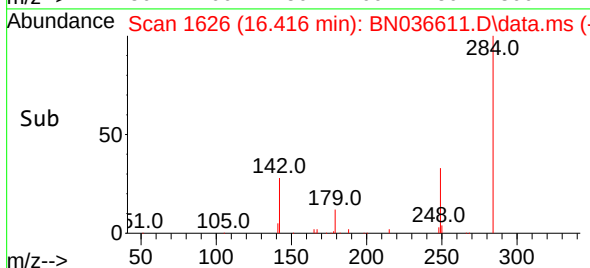
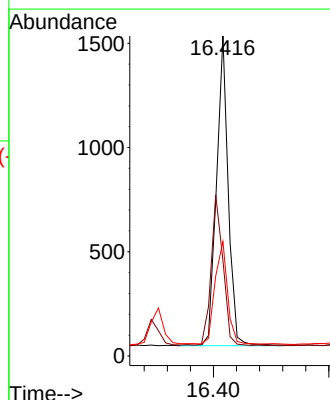
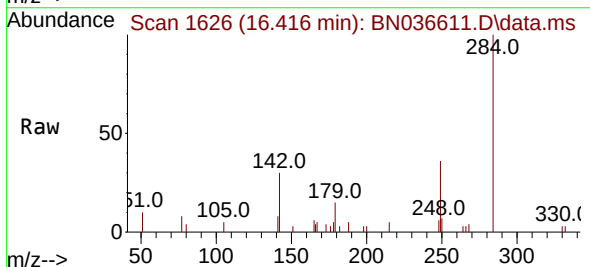
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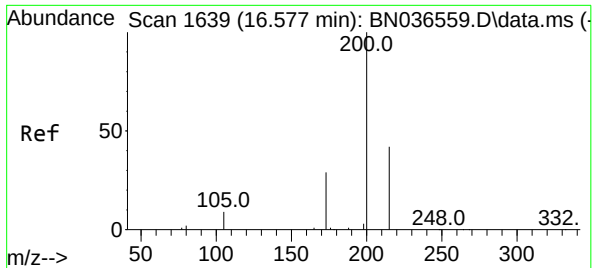
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#22
Hexachlorobenzene
Concen: 0.440 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

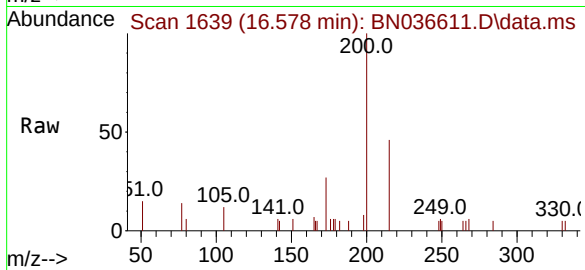
Tgt Ion:284 Resp: 2096
Ion Ratio Lower Upper
284 100
142 49.5 37.0 55.4
249 35.3 28.1 42.1





#23
Atrazine
Concen: 0.537 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

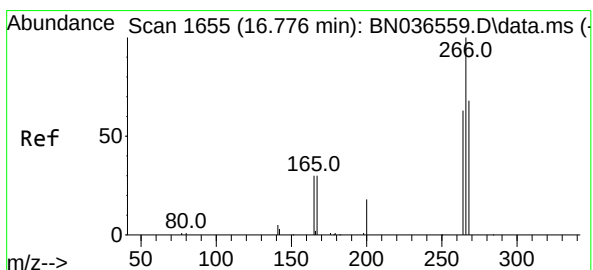
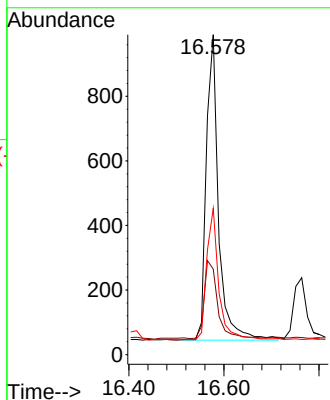
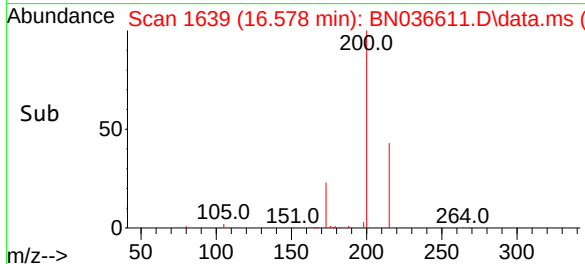
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion: 200 Resp: 1699
Ion Ratio Lower Upper
200 100
173 26.7 27.3 40.9
215 45.7 36.8 55.2

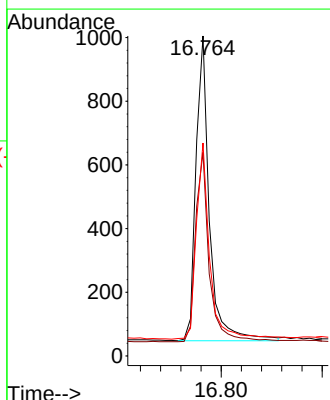
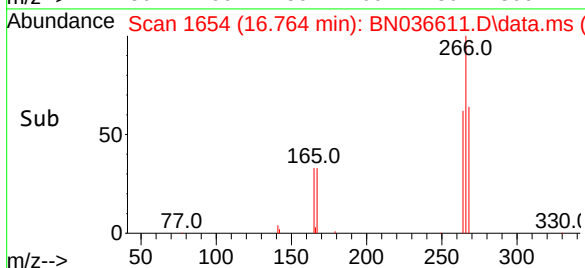
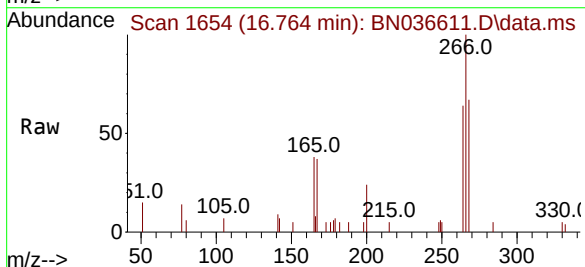
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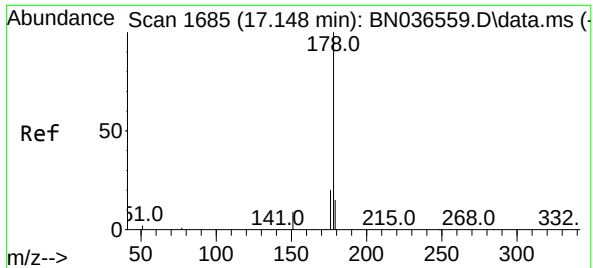
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#24
Pentachlorophenol
Concen: 0.817 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

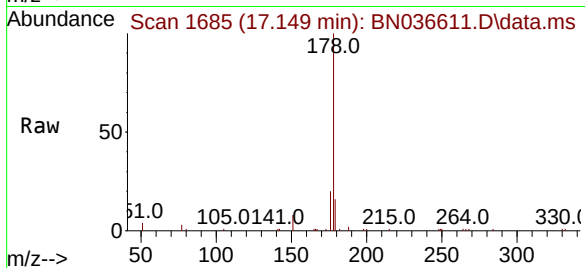
Tgt Ion: 266 Resp: 1776
Ion Ratio Lower Upper
266 100
264 62.8 49.6 74.4
268 63.7 50.9 76.3





#25
Phenanthrene
Concen: 0.497 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

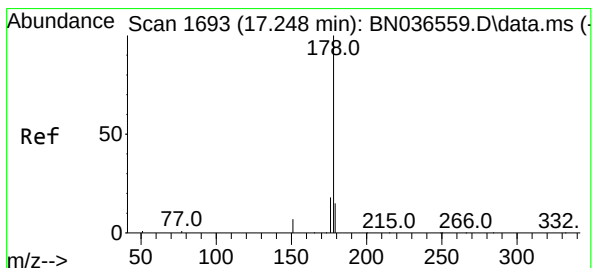
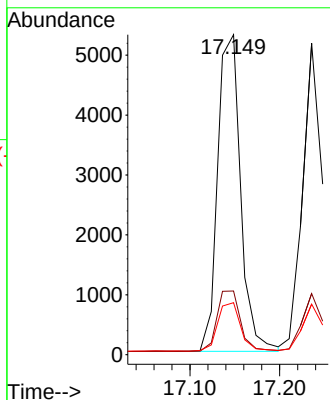
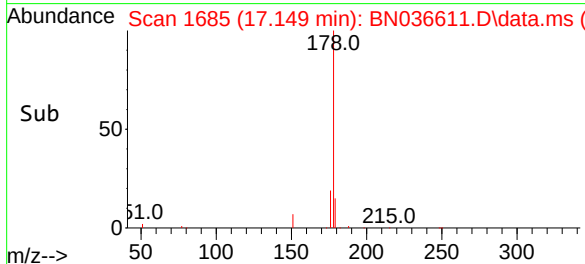
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:178 Resp: 939
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.3 12.2 18.4

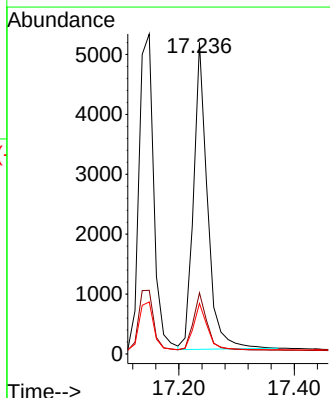
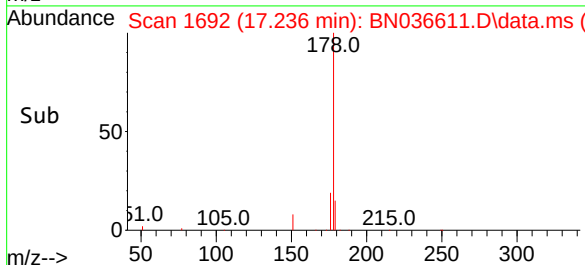
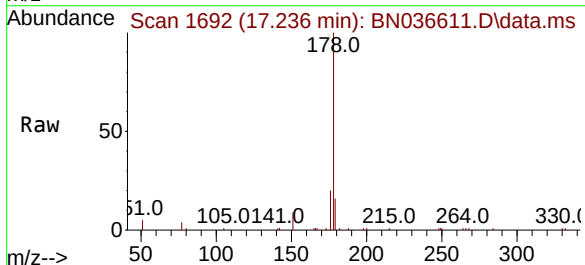
Manual Integrations
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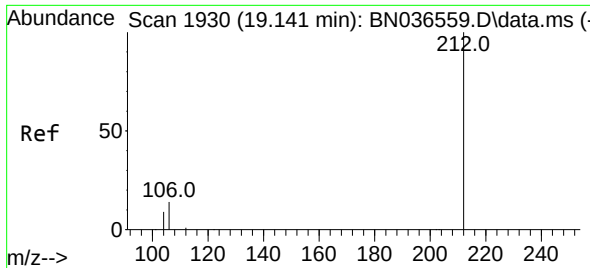
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#26
Anthracene
Concen: 0.505 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:178 Resp: 8609
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.5 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.427 ng

RT: 19.137 min Scan# 1930

Delta R.T. -0.004 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

Instrument :

BNA_N

ClientSampleId :

BPOW6-9-20250312MS

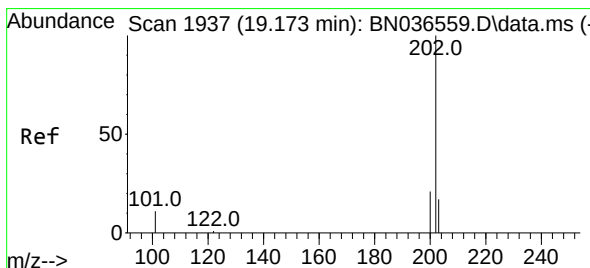
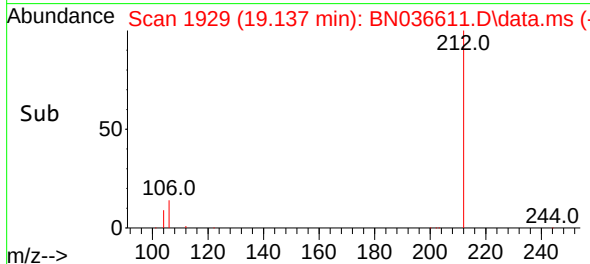
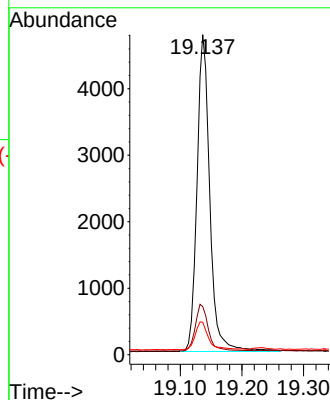
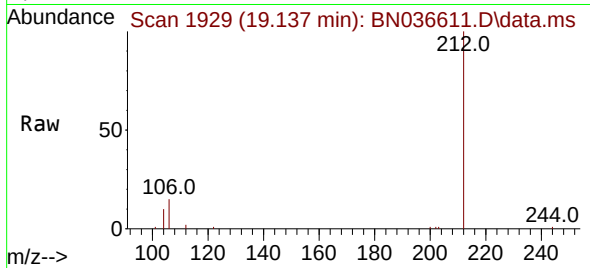
Tgt Ion:	212	Resp:	689
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.4	7.3	10.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



#28

Fluoranthene

Concen: 0.514 ng

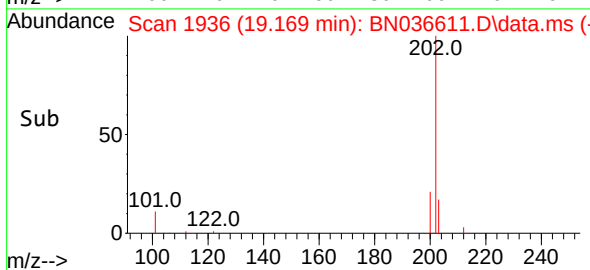
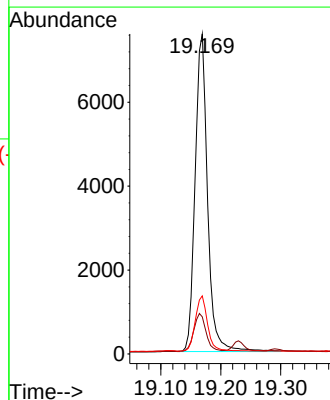
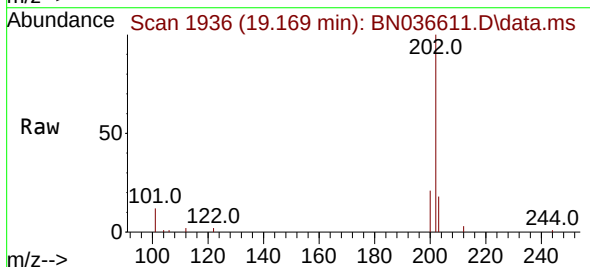
RT: 19.169 min Scan# 1936

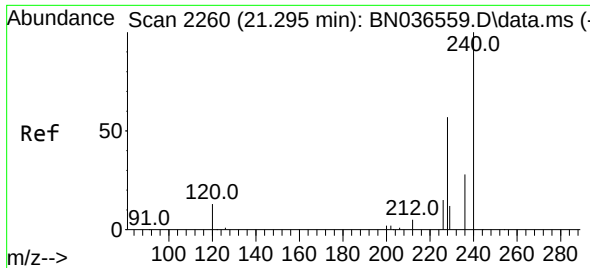
Delta R.T. -0.004 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

Tgt Ion:	202	Resp:	10914
Ion	Ratio	Lower	Upper
202	100		
101	11.8	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: BN036611.D

Acq: 14 Mar 2025 17:24

Instrument :

BNA_N

ClientSampleId :

BPOW6-9-20250312MS

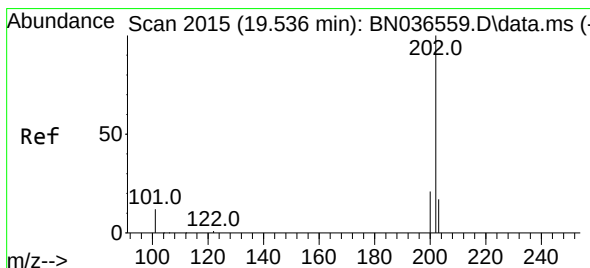
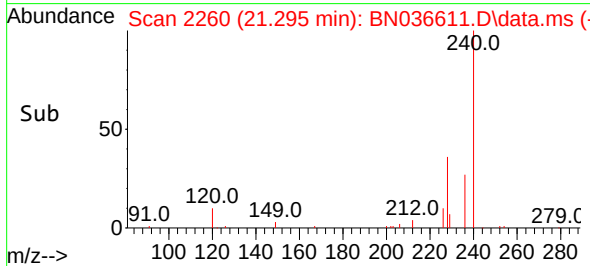
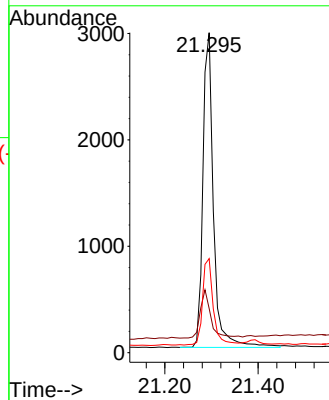
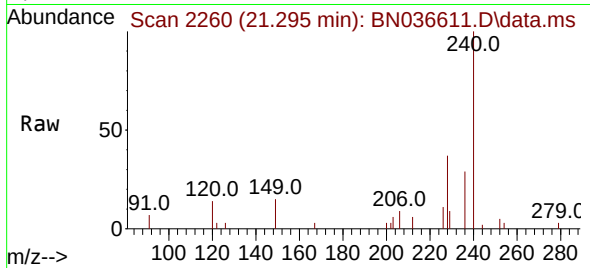
Tgt Ion:	240	Resp:	467
Ion Ratio	Lower	Upper	
240	100		
120	13.8	14.6	22.0
236	29.4	24.1	36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



#30

Pyrene

Concen: 0.494 ng

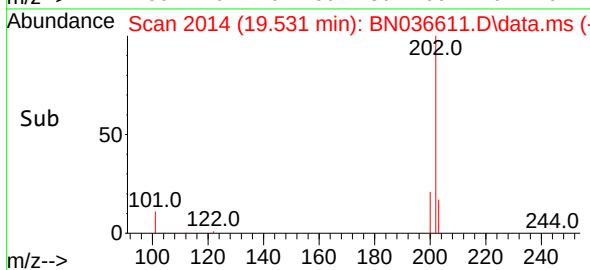
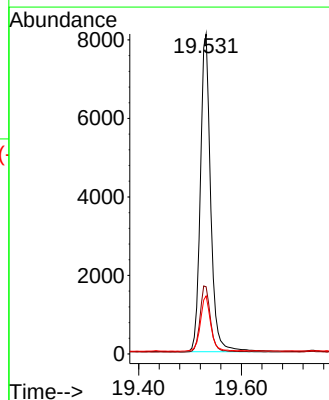
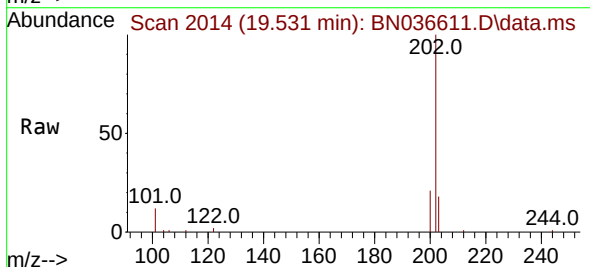
RT: 19.531 min Scan# 2014

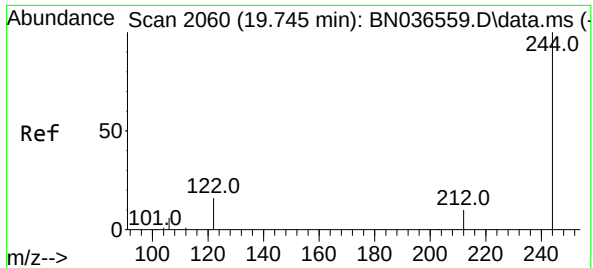
Delta R.T. -0.004 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

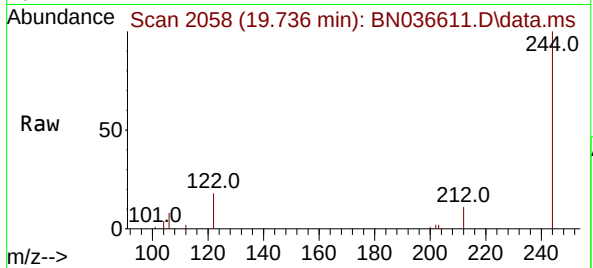
Tgt Ion:	202	Resp:	11279
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.1	25.7
203	17.5	14.1	21.1





#31
Terphenyl-d14
Concen: 0.652 ng
RT: 19.736 min Scan# 2060
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

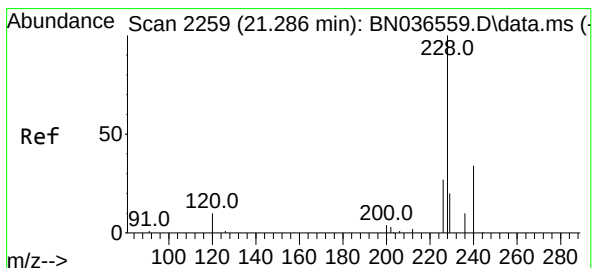
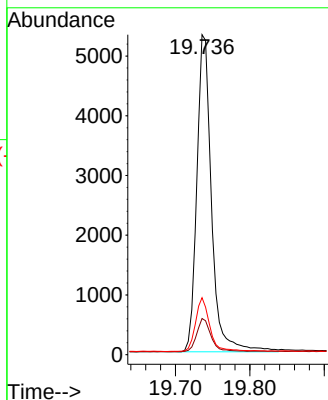
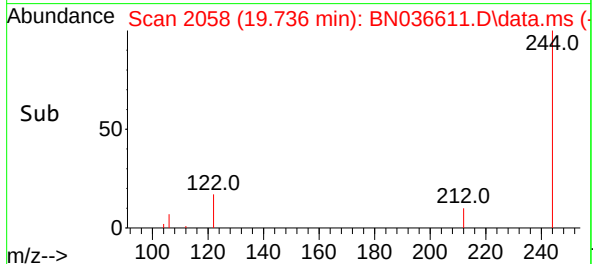
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:244 Resp: 7294
Ion Ratio Lower Upper
244 100
212 11.3 9.6 14.4
122 17.8 13.9 20.9

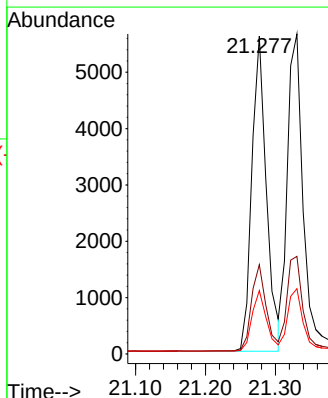
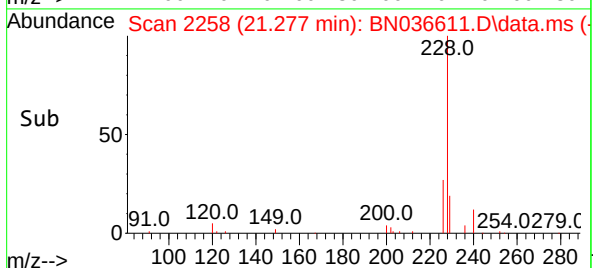
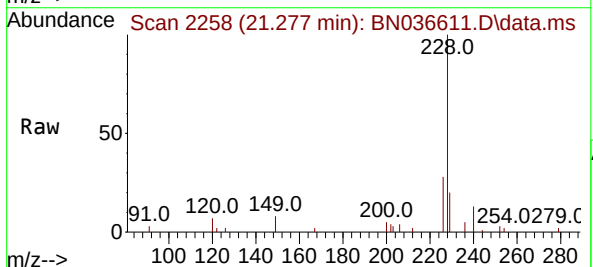
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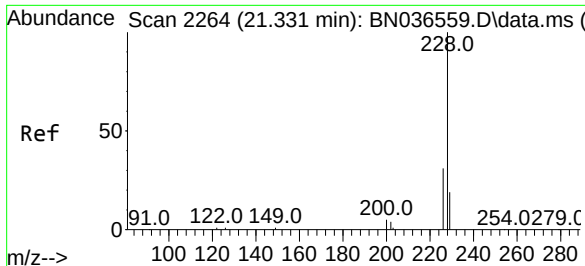
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#32
Benzo(a)anthracene
Concen: 0.498 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:228 Resp: 8094
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 19.9 16.6 25.0





#33

Chrysene

Concen: 0.509 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

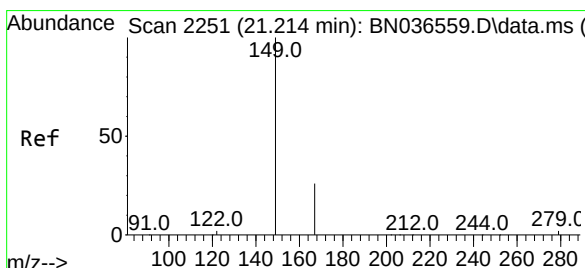
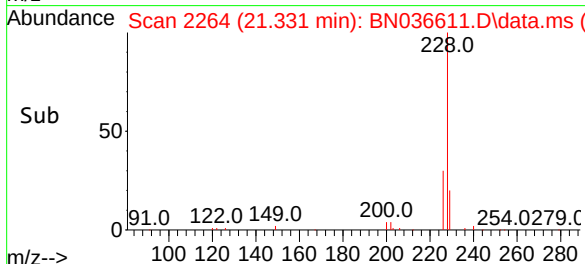
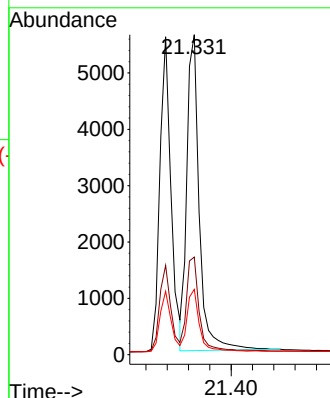
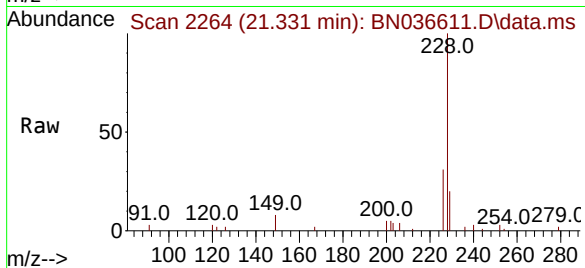
Instrument :

BNA_N

ClientSampleId :

BPOW6-9-20250312MS

Tgt Ion:	228	Resp:	904
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.3	37.9
229	20.4	15.8	23.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.490 ng

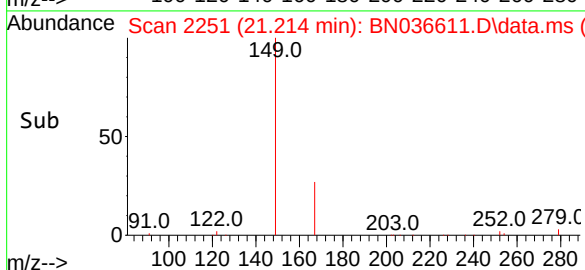
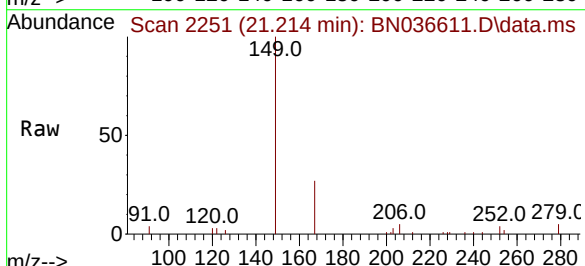
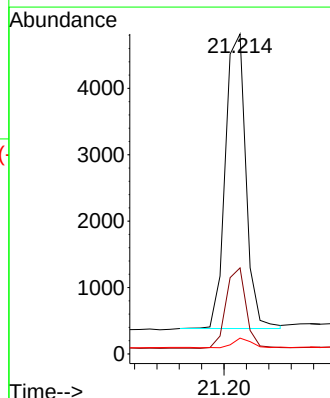
RT: 21.214 min Scan# 2251

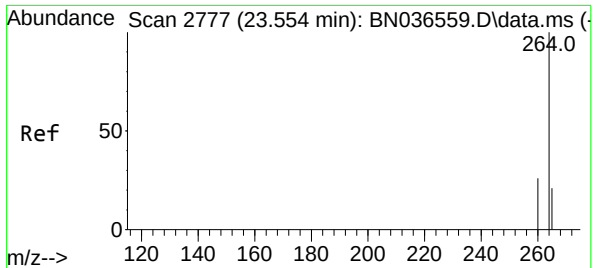
Delta R.T. 0.000 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

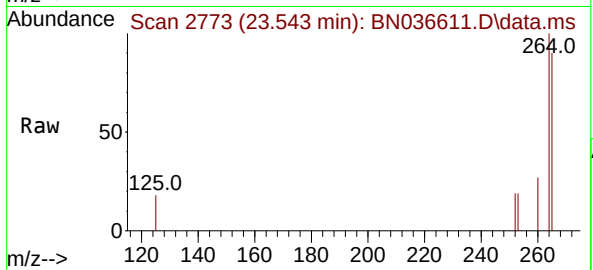
Tgt Ion:	149	Resp:	5667
Ion Ratio	Lower	Upper	
149	100		
167	26.6	20.7	31.1
279	3.0	3.6	5.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

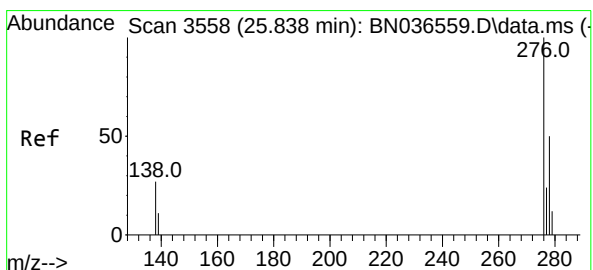
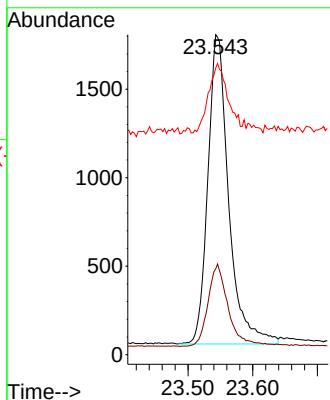
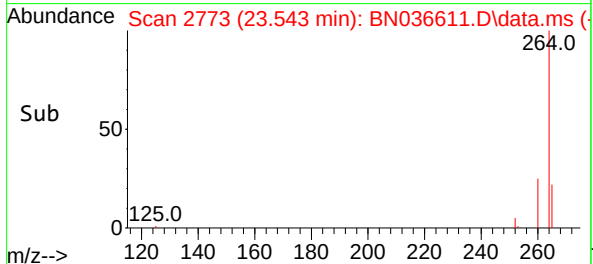
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion:264 Resp: 390
Ion Ratio Lower Upper
264 100
260 26.9 22.6 33.8
265 89.7 88.1 132.1

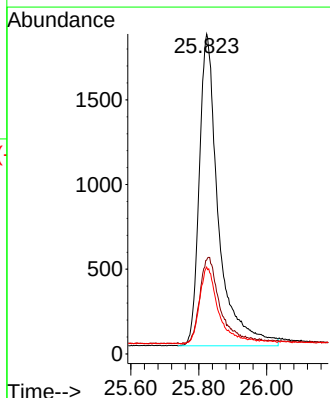
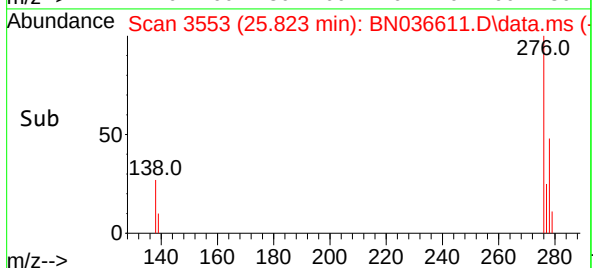
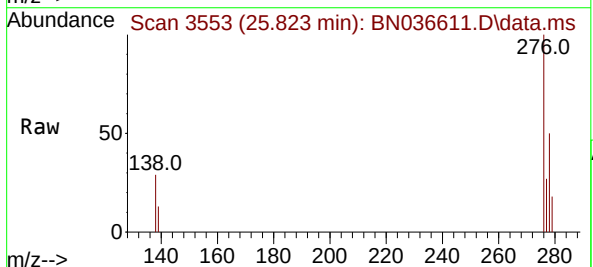
Manual Integrations
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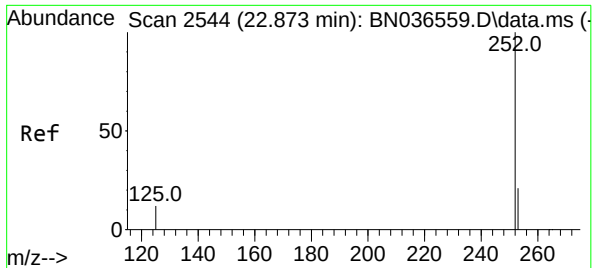
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.513 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

Tgt Ion:276 Resp: 7222
Ion Ratio Lower Upper
276 100
138 29.4 23.4 35.2
277 24.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.508 ng

RT: 22.864 min Scan# 2541

Delta R.T. -0.009 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

Instrument :

BNA_N

ClientSampleId :

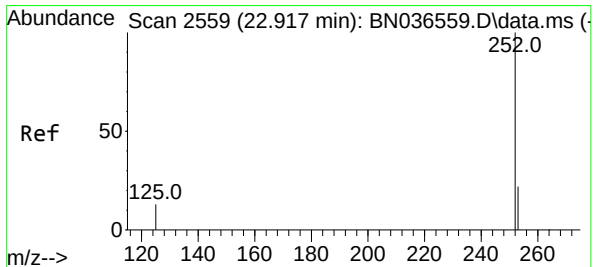
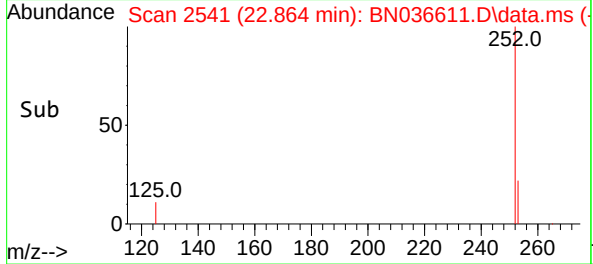
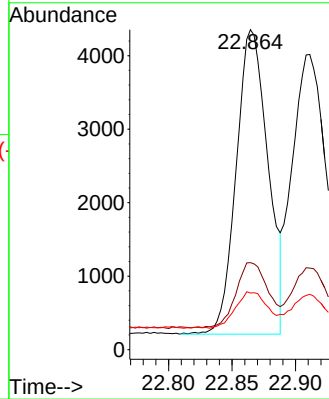
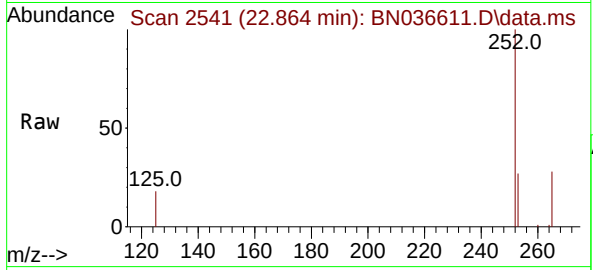
BPOW6-9-20250312MS

Tgt Ion:252	Resp:	7210
Ion Ratio	Lower	Upper
252	100	
253	27.2	23.9 35.9
125	17.7	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#38

Benzo(k)fluoranthene

Concen: 0.544 ng

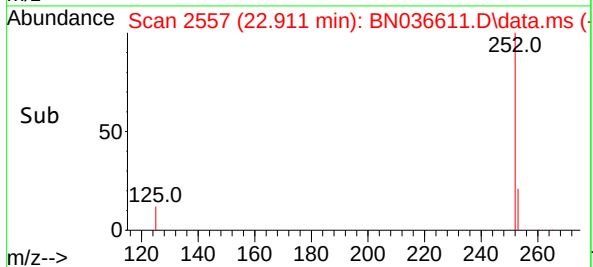
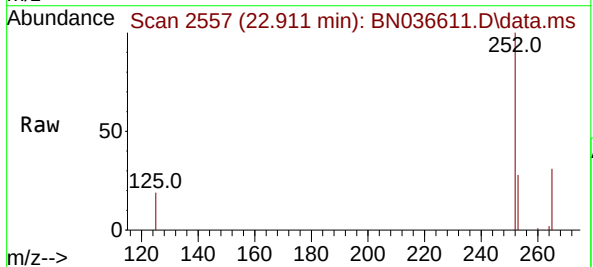
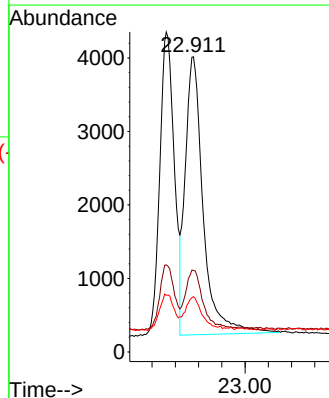
RT: 22.911 min Scan# 2557

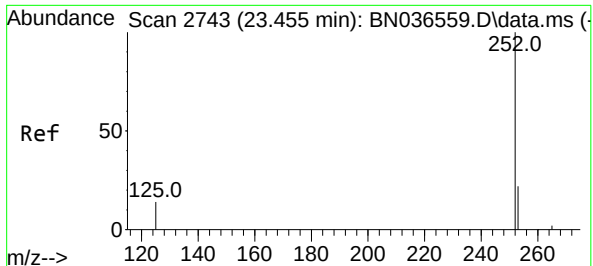
Delta R.T. -0.006 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

Tgt Ion:252	Resp:	8111
Ion Ratio	Lower	Upper
252	100	
253	27.6	24.6 36.8
125	18.7	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.523 ng

RT: 23.446 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

Instrument :

BNA_N

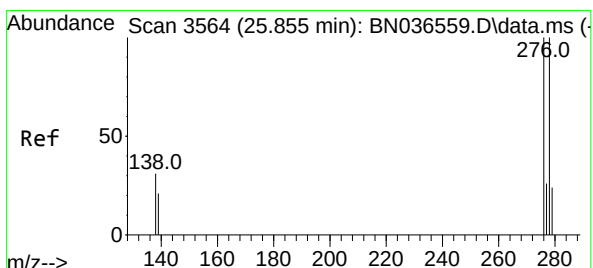
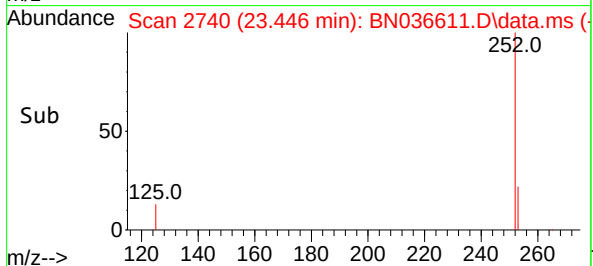
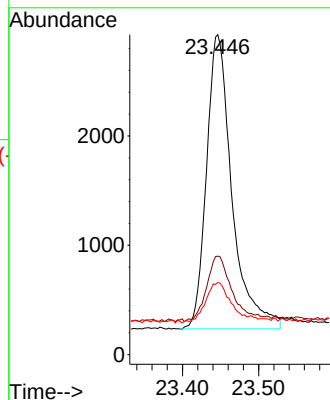
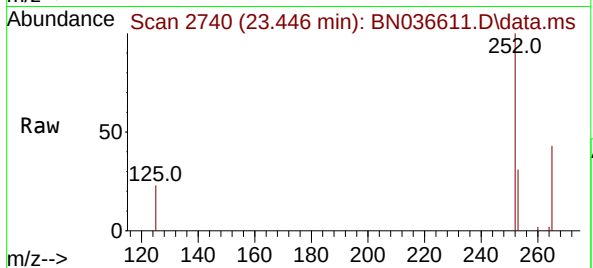
ClientSampleId :

BPOW6-9-20250312MS

Tgt Ion:	252	Resp:	626
Ion Ratio	Lower	Upper	
252	100		
253	30.8	27.8	41.8
125	22.5	22.7	34.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.487 ng

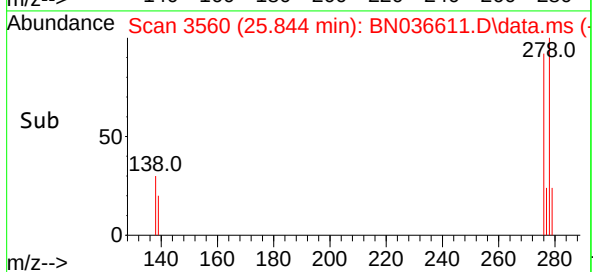
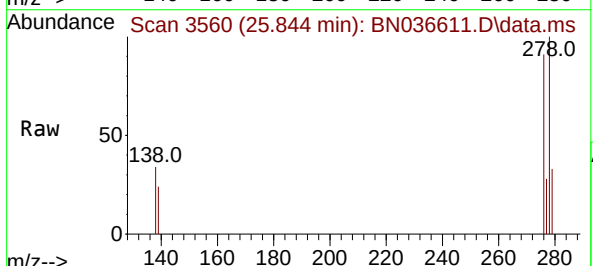
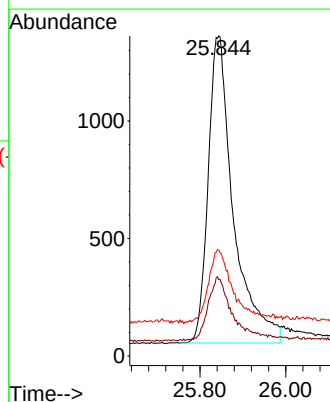
RT: 25.844 min Scan# 3560

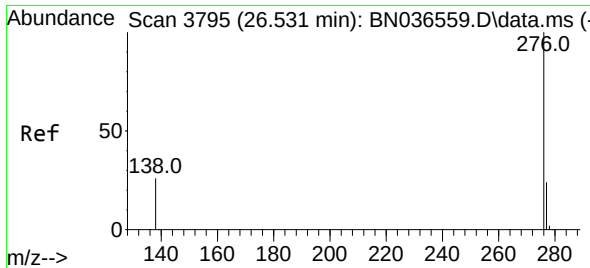
Delta R.T. -0.011 min

Lab File: BN036611.D

Acq: 14 Mar 2025 17:24

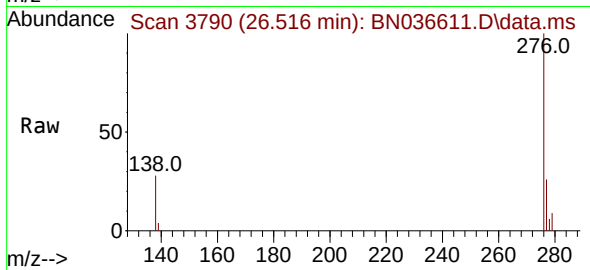
Tgt Ion:	278	Resp:	5342
Ion Ratio	Lower	Upper	
278	100		
139	23.9	20.8	31.2
279	33.2	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.471 ng
RT: 26.516 min Scan# 31
Delta R.T. -0.014 min
Lab File: BN036611.D
Acq: 14 Mar 2025 17:24

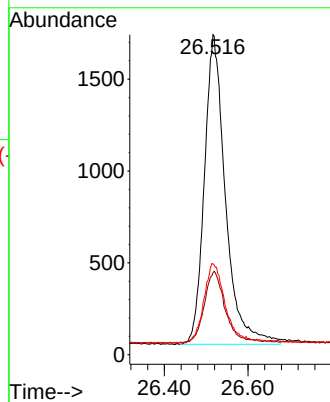
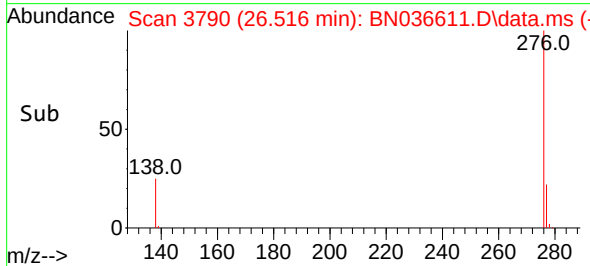
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MS



Tgt Ion: 276 Resp: 590
Ion Ratio Lower Upper
276 100
277 25.5 22.2 33.4
138 28.4 24.1 36.1

Manual Integrations
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Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/12/25
Project:	NJ Waste Water PT	Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD	SDG No.:	Q1502
Lab Sample ID:	Q1557-05MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN036612.D	1	03/13/25 12:40	03/14/25 18:00	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.43		0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.48		0.040	0.10	ug/L
83-32-9	Acenaphthene	0.47		0.040	0.10	ug/L
86-73-7	Fluorene	0.47		0.040	0.10	ug/L
85-01-8	Phenanthrene	0.53		0.030	0.10	ug/L
120-12-7	Anthracene	0.53		0.040	0.10	ug/L
206-44-0	Fluoranthene	0.55		0.030	0.10	ug/L
129-00-0	Pyrene	0.51		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.54		0.040	0.10	ug/L
218-01-9	Chrysene	0.55		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.54		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.56		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.58		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.55		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.53		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.50		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		20 - 139	96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150	111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		27 - 154	89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.69		54 - 175	172%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2510		7.717		
1146-65-2	Naphthalene-d8	5930		10.509		
15067-26-2	Acenaphthene-d10	3540		14.355		
1517-22-2	Phenanthrene-d10	7130		17.099		
1719-03-5	Chrysene-d12	5440		21.295		
1520-96-3	Perylene-d12	4600		23.545		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	03/12/25
Project:	NJ Waste Water PT		Date Received:	03/12/25
Client Sample ID:	BPOW6-9-20250312MSD		SDG No.:	Q1502
Lab Sample ID:	Q1557-05MSD		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
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
BN036612.D	1	03/13/25 12:40	03/14/25 18:00	PB167128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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\BN031425\
 Data File : BN036612.D
 Acq On : 14 Mar 2025 18:00
 Operator : RC/JU
 Sample : Q1557-05MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-9-20250312MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 14 18:28:52 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	2513	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5928	0.400	ng	# 0.00
13) Acenaphthene-d10	14.355	164	3540	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	7131	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	5437	0.400	ng	# 0.00
35) Perylene-d12	23.545	264	4602	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1036	0.177	ng	0.00
5) Phenol-d6	6.894	99	757	0.105	ng	0.00
8) Nitrobenzene-d5	8.864	82	2305	0.357	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	3398m	0.385	ng	-0.01
14) 2,4,6-Tribromophenol	15.845	330	684	0.426	ng	-0.01
15) 2-Fluorobiphenyl	12.983	172	8402	0.408	ng	0.00
27) Fluoranthene-d10	19.136	212	8120	0.444	ng	0.00
31) Terphenyl-d14	19.736	244	8966	0.688	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	640	0.230	ng	# 41
3) n-Nitrosodimethylamine	3.557	42	1129	0.200	ng	97
6) bis(2-Chloroethyl)ether	7.146	93	3050	0.408	ng	94
9) Naphthalene	10.551	128	7475	0.429	ng	100
10) Hexachlorobutadiene	10.850	225	1621	0.395	ng	# 99
12) 2-Methylnaphthalene	12.172	142	4879	0.440	ng	99
16) Acenaphthylene	14.077	152	7951	0.476	ng	100
17) Acenaphthene	14.420	154	5036	0.461	ng	99
18) Fluorene	15.403	166	6879	0.465	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	731	0.546	ng	# 79
21) 4-Bromophenyl-phenylether	16.304	248	2150	0.481	ng	# 77
22) Hexachlorobenzene	16.416	284	2452	0.455	ng	96
23) Atrazine	16.577	200	1972	0.550	ng	# 93
24) Pentachlorophenol	16.764	266	2125	0.864	ng	99
25) Phenanthrene	17.148	178	11219	0.524	ng	100
26) Anthracene	17.235	178	10217	0.529	ng	99
28) Fluoranthene	19.164	202	13048	0.543	ng	99
30) Pyrene	19.531	202	13477	0.507	ng	100
32) Benzo(a)anthracene	21.277	228	10027	0.530	ng	99
33) Chrysene	21.330	228	11154	0.540	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	6969	0.518	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.823	276	9000	0.542	ng	99
37) Benzo(b)fluoranthene	22.864	252	8987	0.537	ng	# 92
38) Benzo(k)fluoranthene	22.911	252	9690	0.551	ng	# 91
39) Benzo(a)pyrene	23.443	252	8100	0.574	ng	# 87
40) Dibenzo(a,h)anthracene	25.841	278	6755	0.522	ng	92
41) Benzo(g,h,i)perylene	26.513	276	7272	0.492	ng	96

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

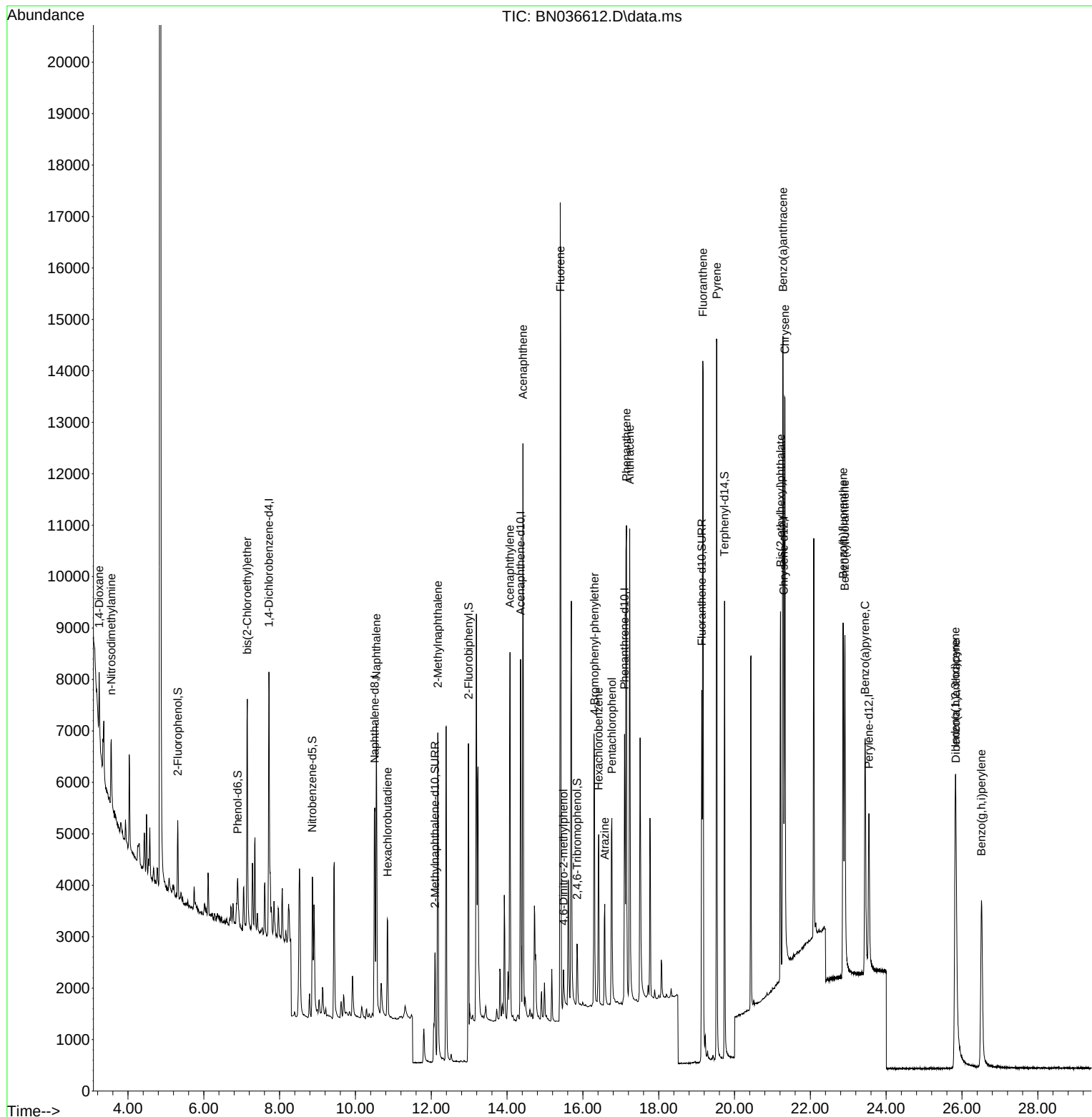
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 Data File : BN036612.D
 Acq On : 14 Mar 2025 18:00
 Operator : RC/JU
 Sample : Q1557-05MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

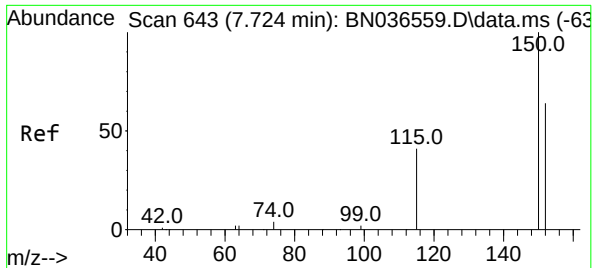
Instrument :
 BNA_N
 ClientSampleId :
 BPOW6-9-20250312MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

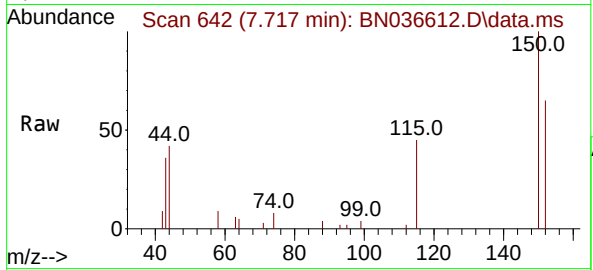
Quant Time: Mar 14 18:28:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

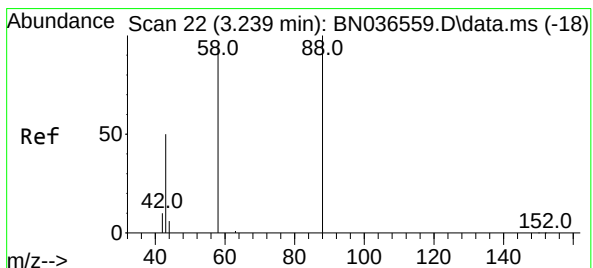
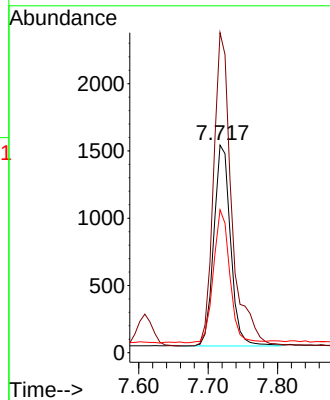
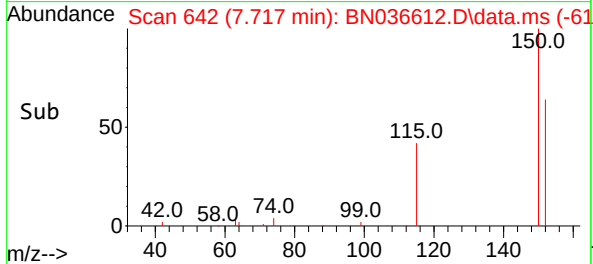
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion: 152 Resp: 251
Ion Ratio Lower Upper
152 100
150 154.2 123.7 185.5
115 68.9 54.3 81.5

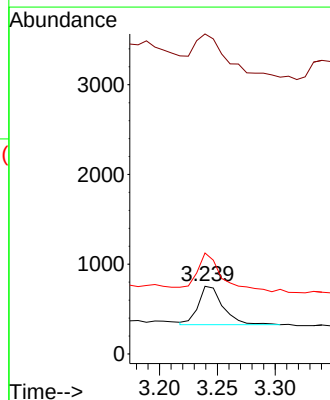
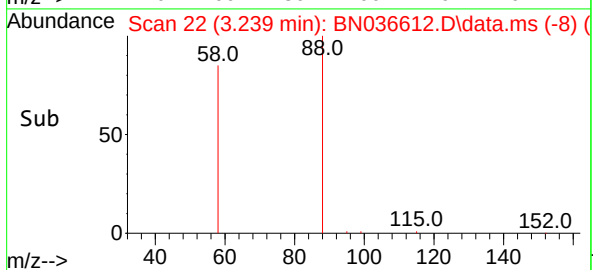
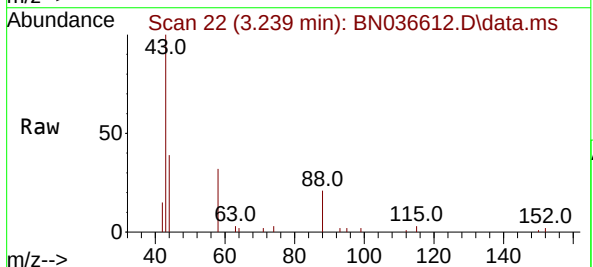
Manual Integrations
APPROVED

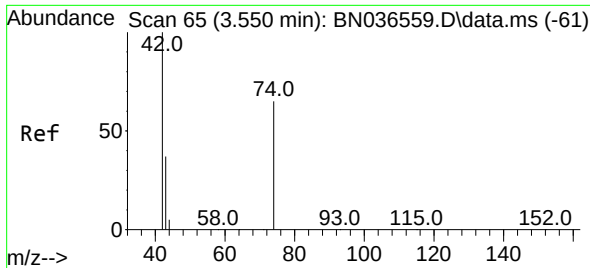
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

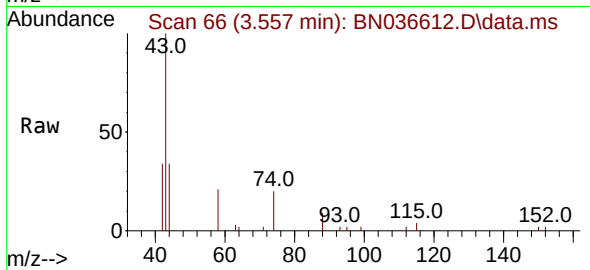
Tgt Ion: 88 Resp: 640
Ion Ratio Lower Upper
88 100
43 137.8 37.8 56.8#
58 99.7 67.4 101.2





#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

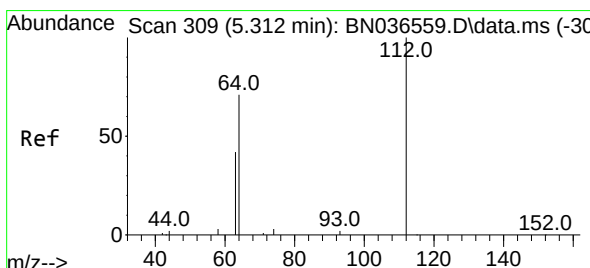
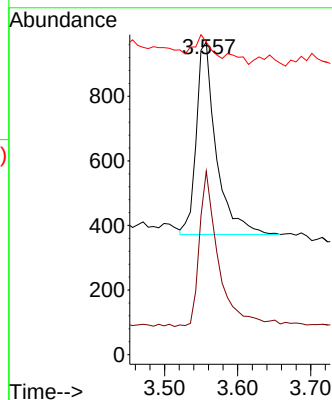
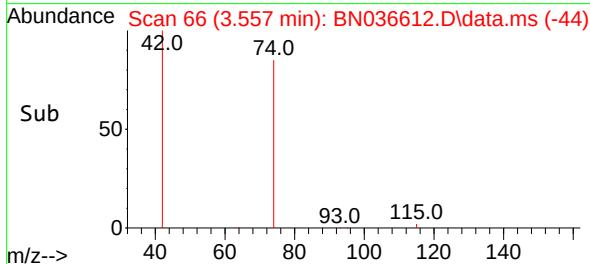
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion: 42 Resp: 1129
Ion Ratio Lower Upper
42 100
74 78.2 60.6 90.8
44 8.9 6.3 9.5

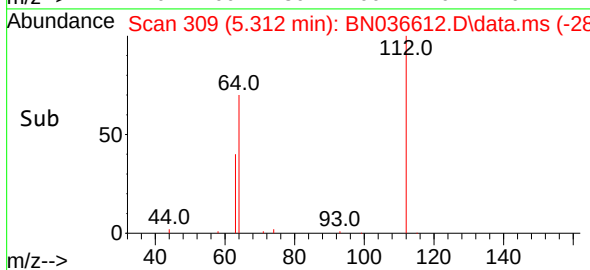
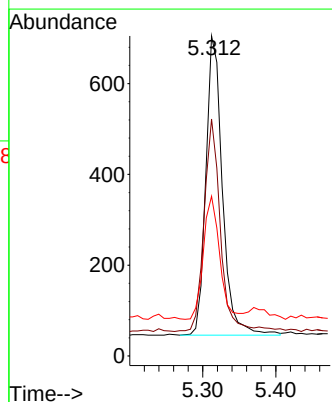
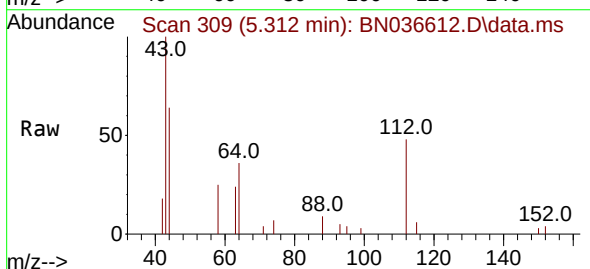
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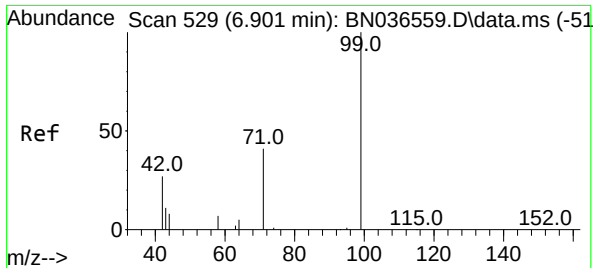
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#4
2-Fluorophenol
Concen: 0.177 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:112 Resp: 1036
Ion Ratio Lower Upper
112 100
64 70.9 53.1 79.7
63 40.3 31.8 47.8





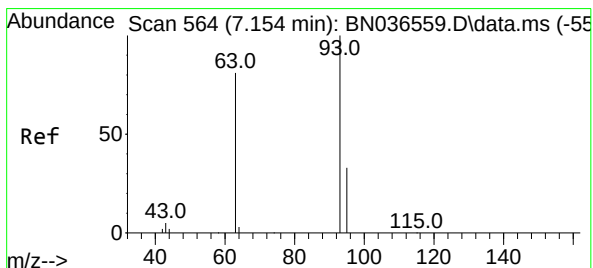
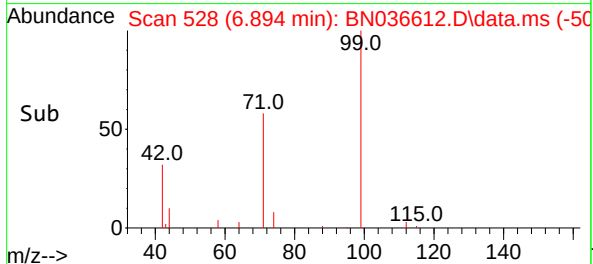
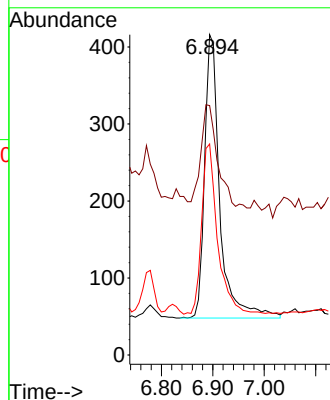
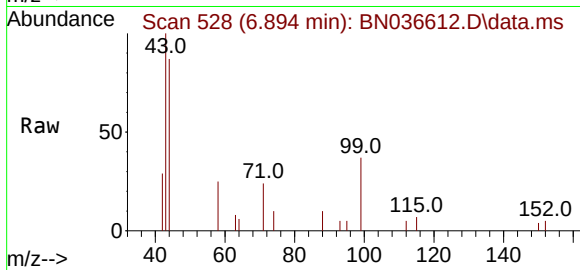
#5
Phenol-d6
Concen: 0.105 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Tgt Ion: 99 Resp: 75
Ion Ratio Lower Upper
99 100
42 40.3 26.5 39.7
71 63.0 34.1 51.1

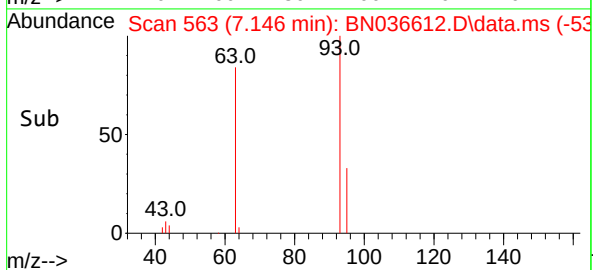
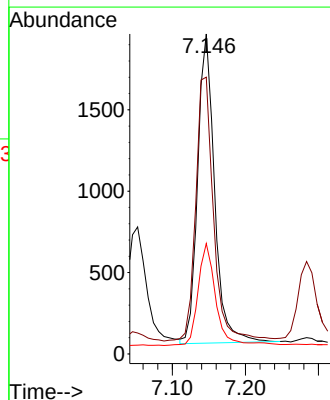
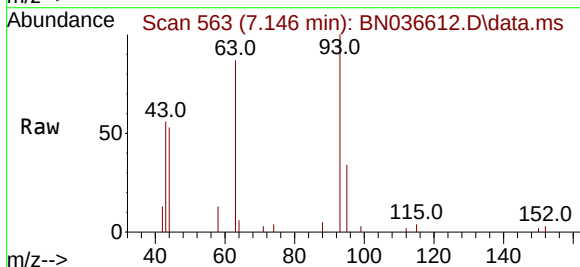
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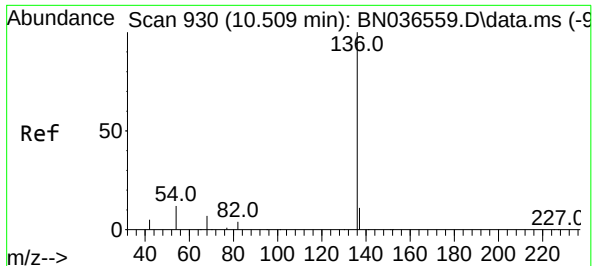
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

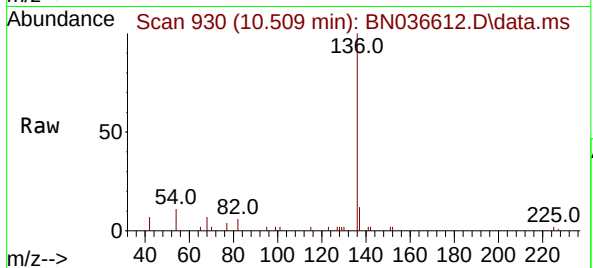
Tgt Ion: 93 Resp: 3050
Ion Ratio Lower Upper
93 100
63 90.3 67.7 101.5
95 34.8 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

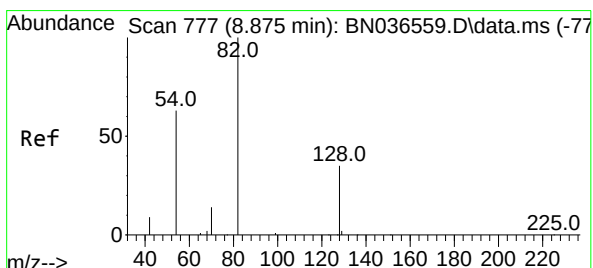
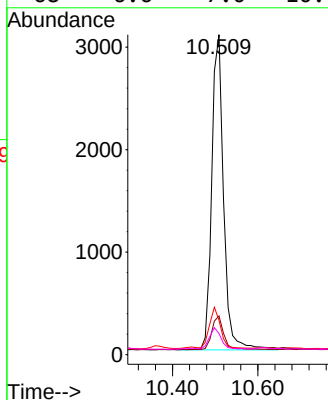
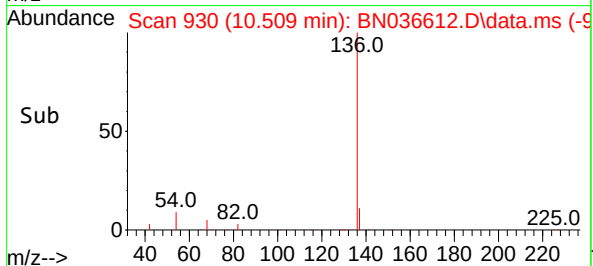
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion: 136 Resp: 5928
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 10.7 11.5 17.3
68 6.6 7.0 10.4#

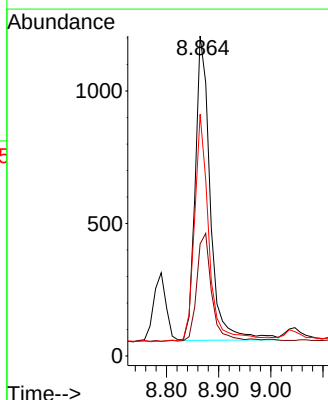
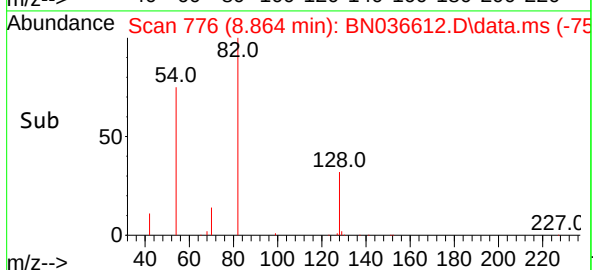
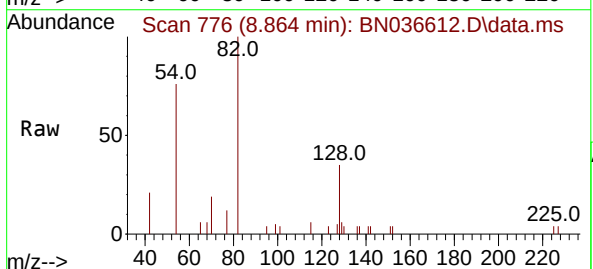
Manual Integrations
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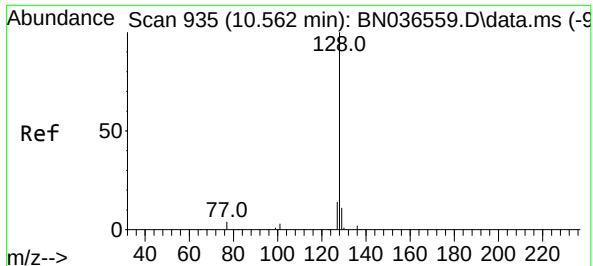
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 82 Resp: 2305
Ion Ratio Lower Upper
82 100
128 35.0 30.6 45.8
54 75.6 52.2 78.4





#9

Naphthalene

Concen: 0.429 ng

RT: 10.551 min Scan# 911

Delta R.T. -0.011 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Instrument :

BNA_N

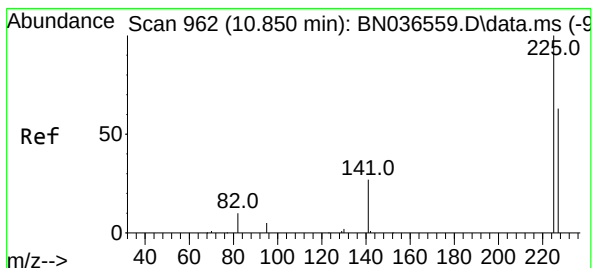
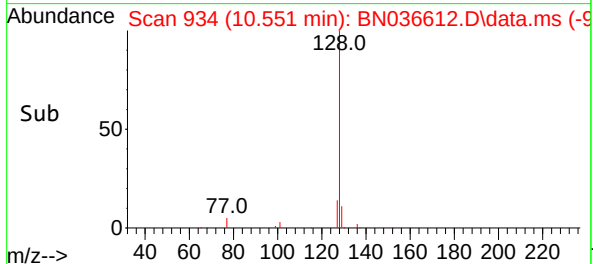
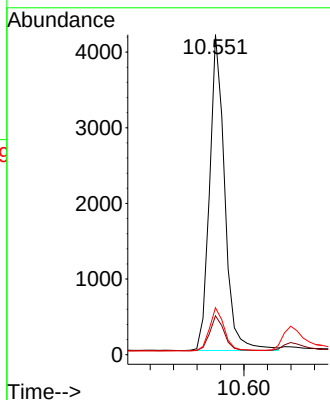
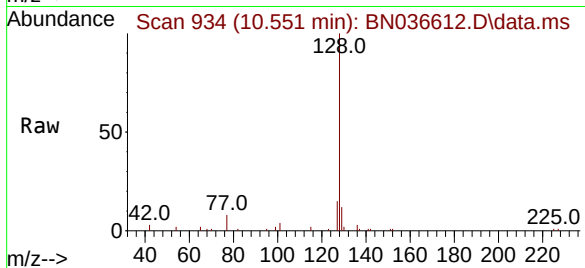
ClientSampleId :

BPOW6-9-20250312MSD

Tgt Ion:	128	Resp:	747
Ion Ratio	Lower	Upper	
128	100		
129	12.2	9.8	14.6
127	14.6	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#10

Hexachlorobutadiene

Concen: 0.395 ng

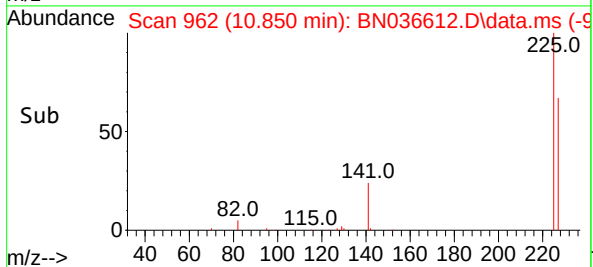
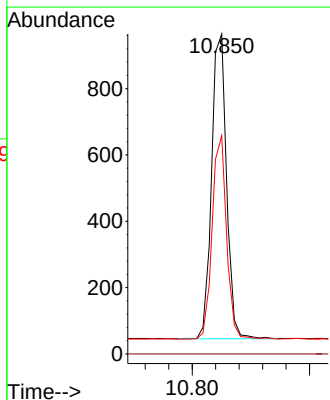
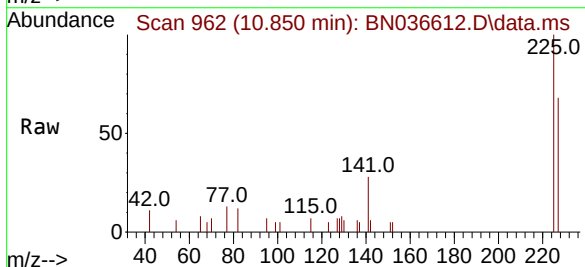
RT: 10.850 min Scan# 962

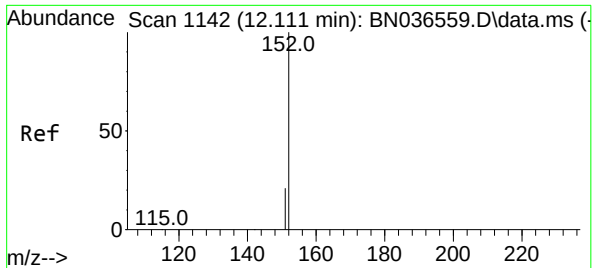
Delta R.T. -0.000 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Tgt Ion:	225	Resp:	1621
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8





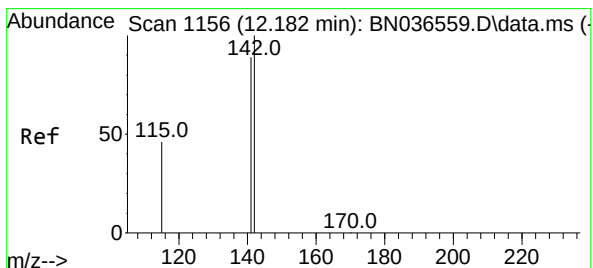
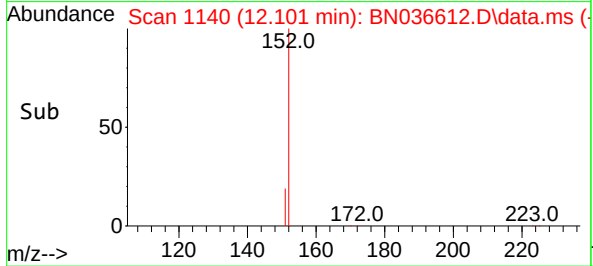
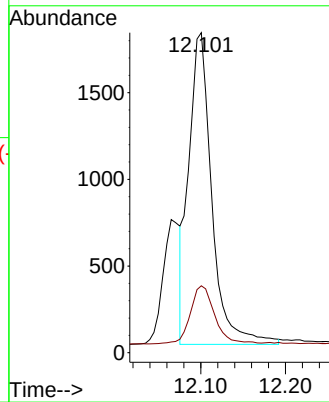
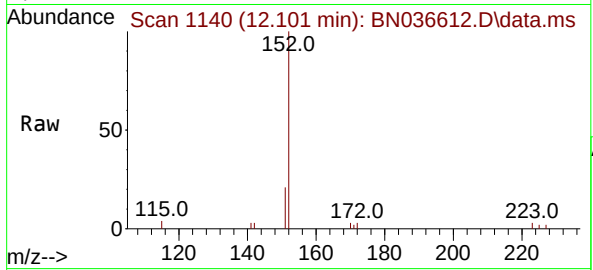
#11
2-Methylnaphthalene-d10
Concen: 0.385 ng m
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Tgt Ion:152 Resp: 3398
Ion Ratio Lower Upper
152 100
151 19.7 17.0 25.6

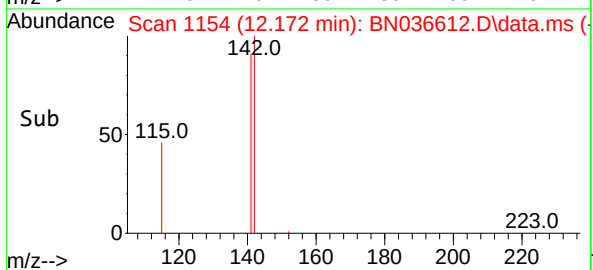
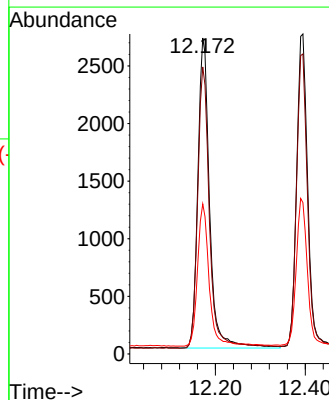
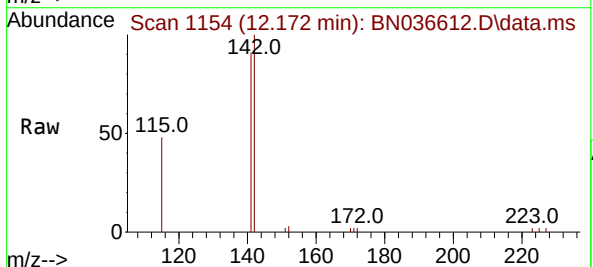
Manual Integrations
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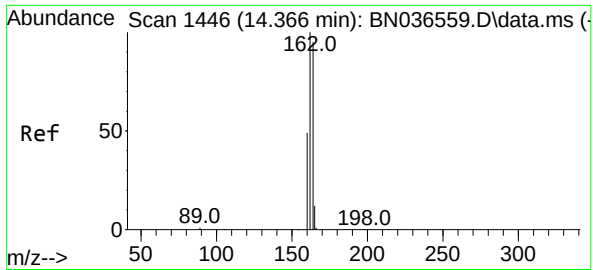
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#12
2-Methylnaphthalene
Concen: 0.440 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

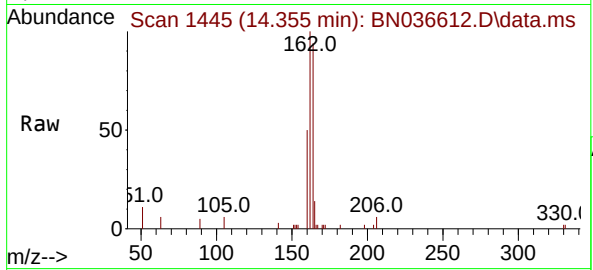
Tgt Ion:142 Resp: 4879
Ion Ratio Lower Upper
142 100
141 90.8 71.7 107.5
115 47.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

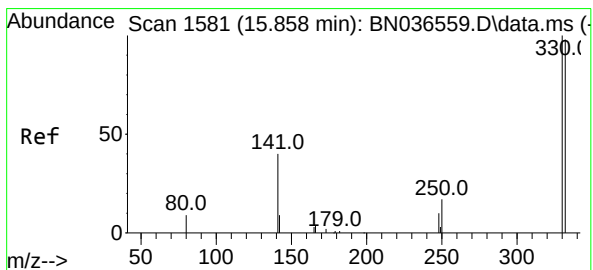
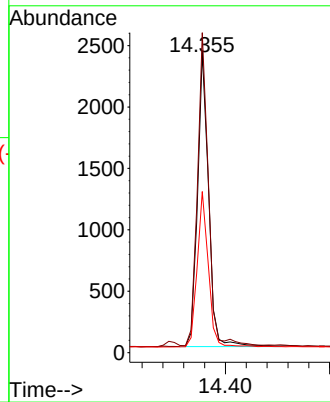
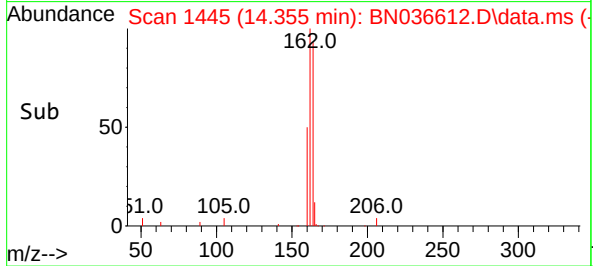
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



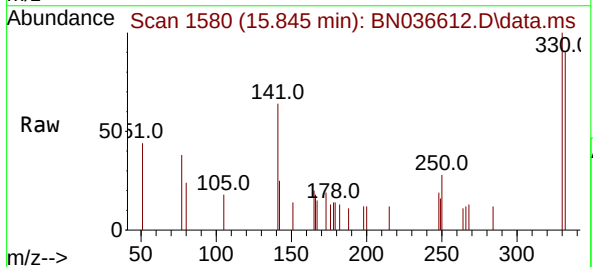
Tgt Ion:164 Resp: 3540
Ion Ratio Lower Upper
164 100
162 106.5 84.2 126.2
160 53.7 42.2 63.2

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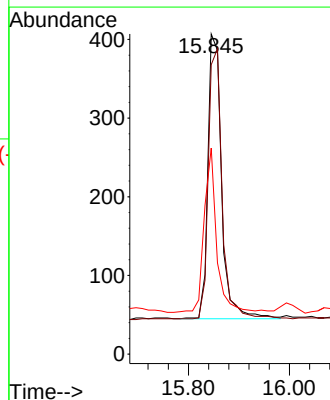
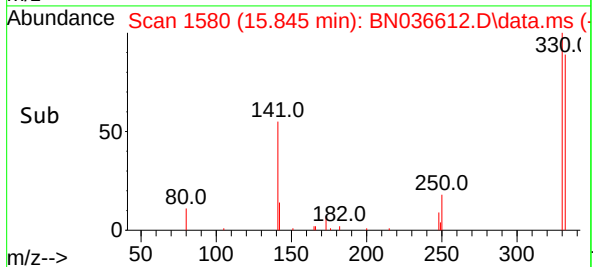
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

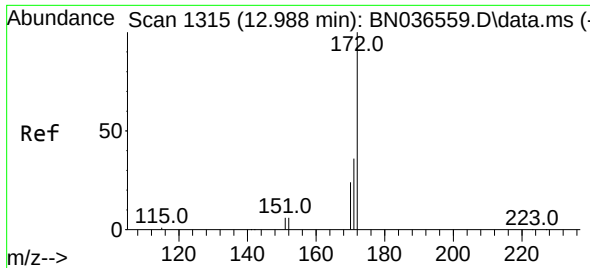


#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00



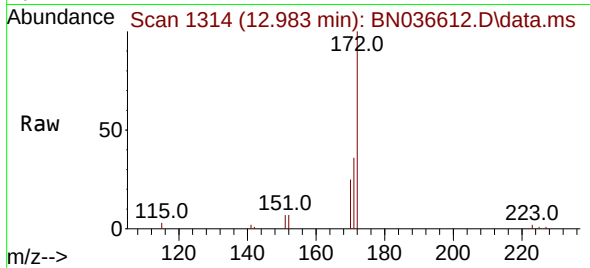
Tgt Ion:330 Resp: 684
Ion Ratio Lower Upper
330 100
332 95.3 75.2 112.8
141 52.6 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.983 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

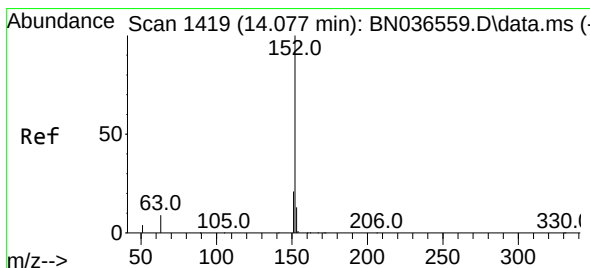
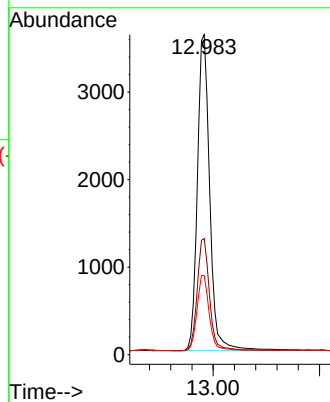
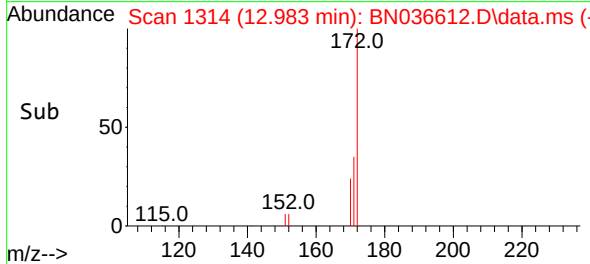
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion:172 Resp: 840
Ion Ratio Lower Upper
172 100
171 36.3 29.5 44.3
170 24.7 20.2 30.4

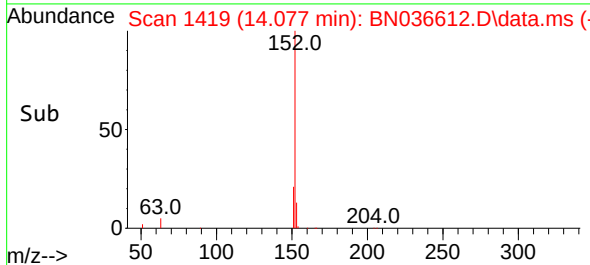
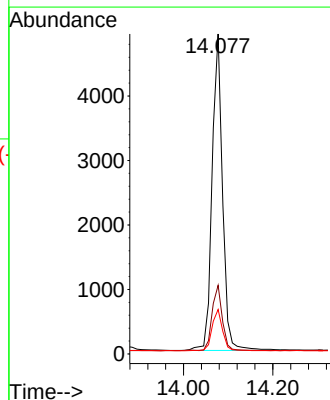
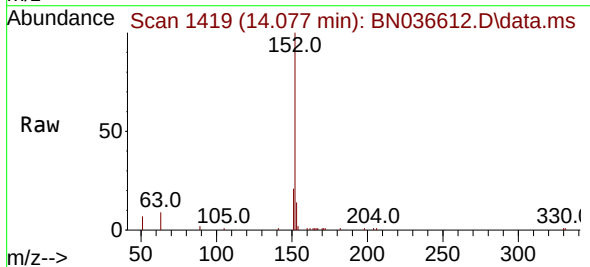
Manual Integrations
APPROVED

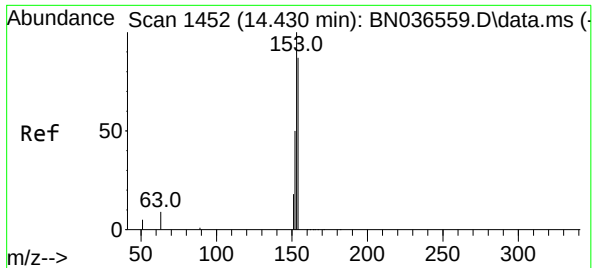
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#16
Acenaphthylene
Concen: 0.476 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

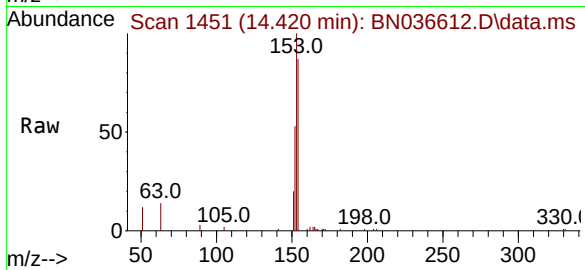
Tgt Ion:152 Resp: 7951
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.461 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

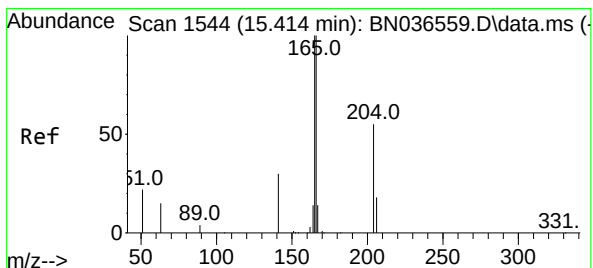
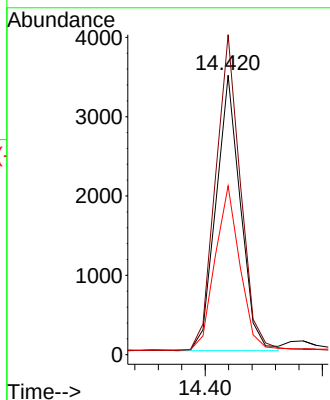
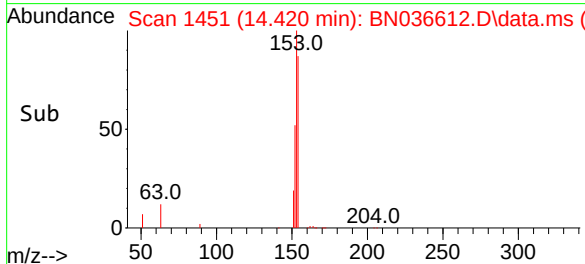
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



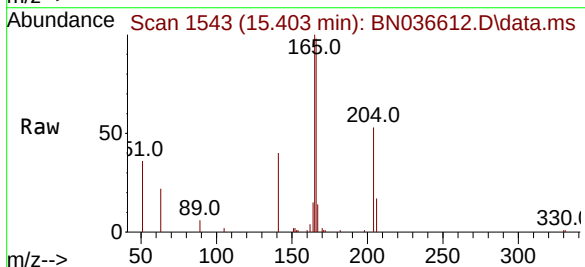
Tgt Ion:154 Resp: 5030
Ion Ratio Lower Upper
154 100
153 118.3 94.1 141.1
152 61.7 49.8 74.6

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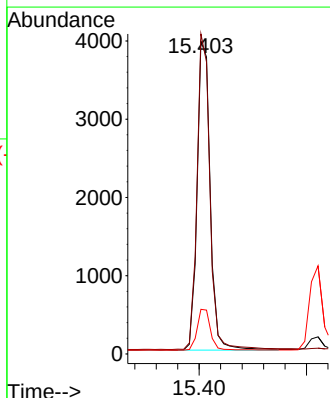
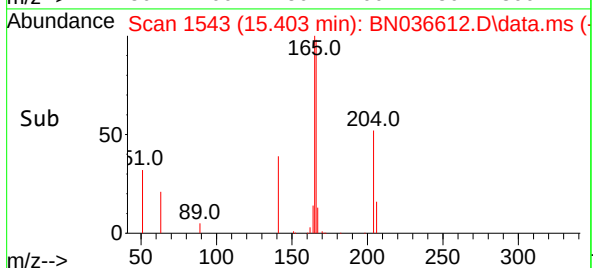
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

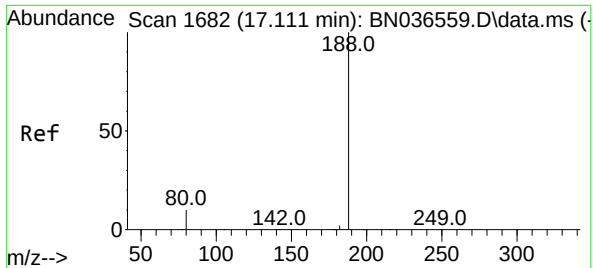


#18
Fluorene
Concen: 0.465 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00



Tgt Ion:166 Resp: 6879
Ion Ratio Lower Upper
166 100
165 100.3 79.8 119.8
167 13.5 10.6 15.8





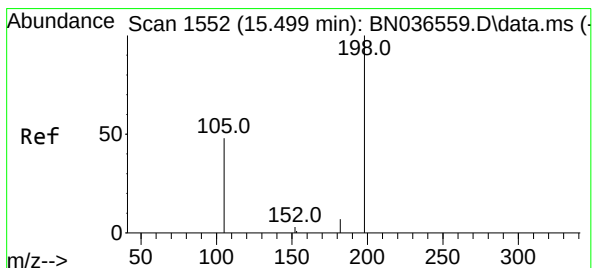
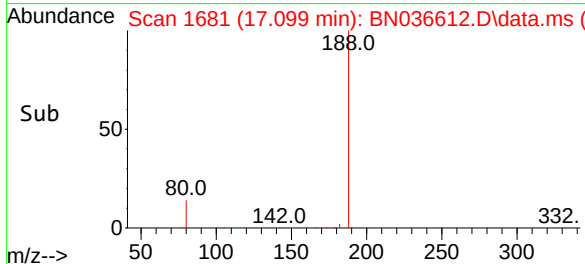
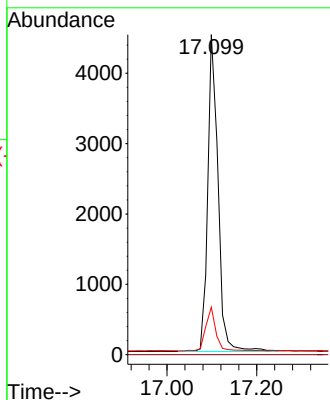
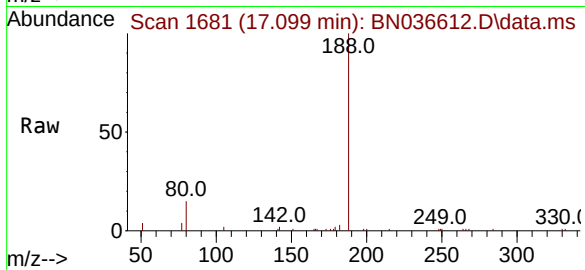
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1682
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Tgt Ion:188 Resp: 713
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 8.8 13.2

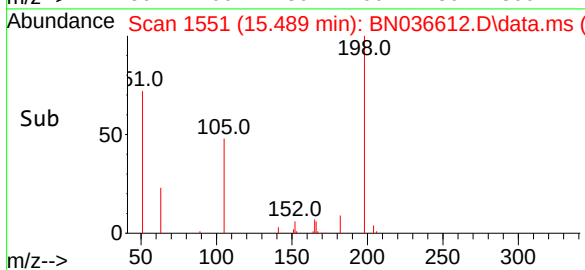
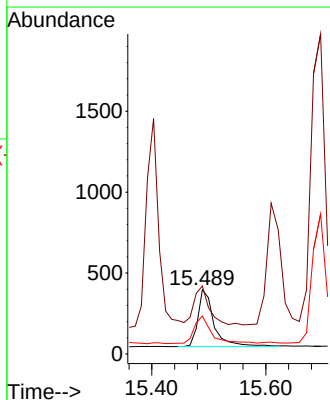
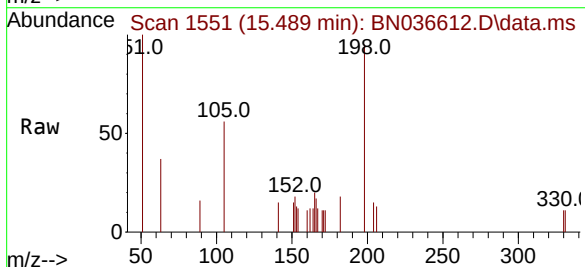
Manual Integrations
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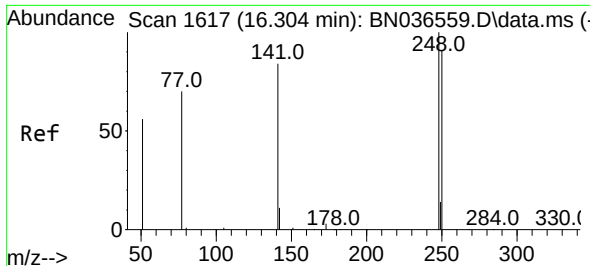
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.546 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

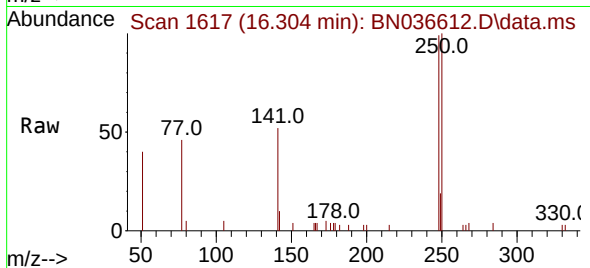
Tgt Ion:198 Resp: 731
Ion Ratio Lower Upper
198 100
51 105.8 107.9 161.9#
105 59.2 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.481 ng
RT: 16.304 min Scan# 1617
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

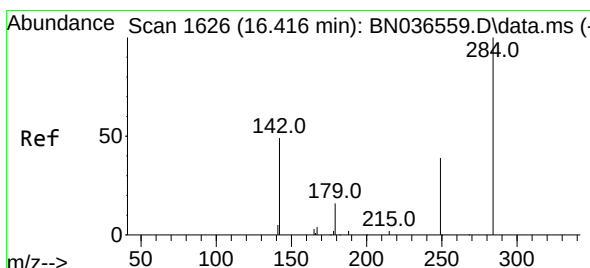
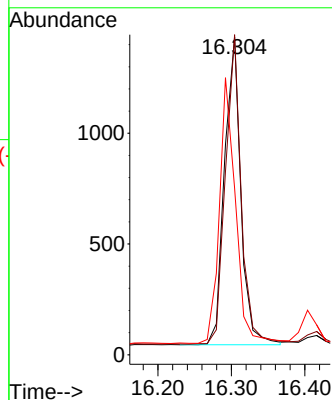
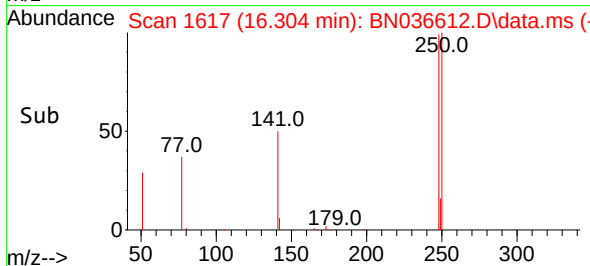
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion:248 Resp: 2150
Ion Ratio Lower Upper
248 100
250 100.7 73.0 109.6
141 52.4 68.6 103.0

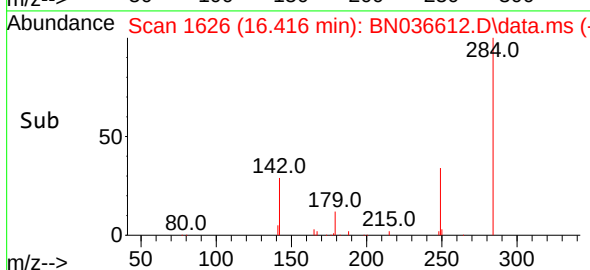
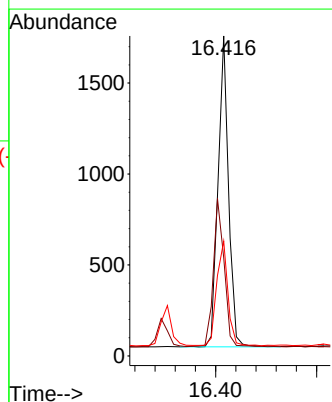
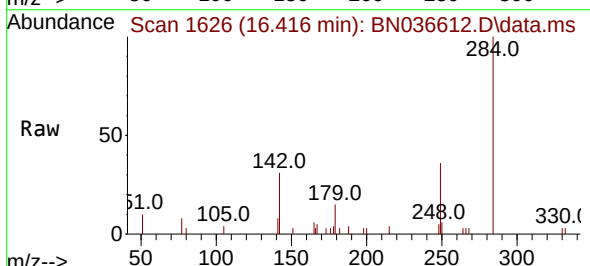
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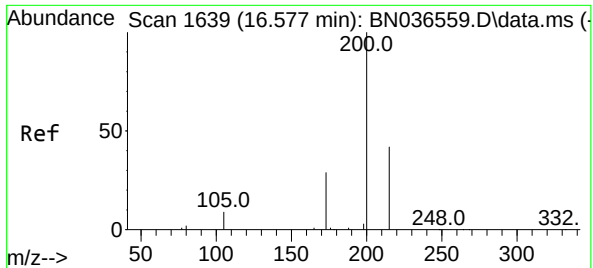
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

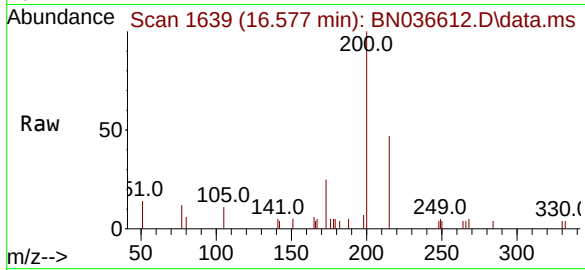
Tgt Ion:284 Resp: 2452
Ion Ratio Lower Upper
284 100
142 49.8 37.0 55.4
249 36.0 28.1 42.1





#23
Atrazine
Concen: 0.550 ng
RT: 16.577 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

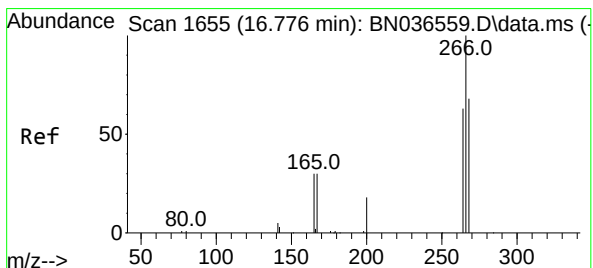
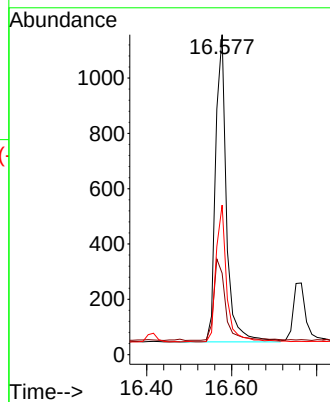
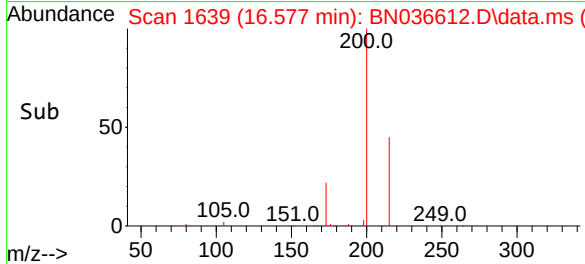
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion:200 Resp: 1972
Ion Ratio Lower Upper
200 100
173 25.4 27.3 40.9
215 46.8 36.8 55.2

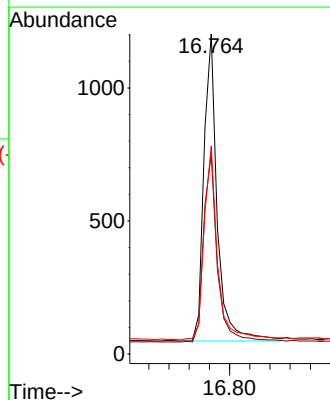
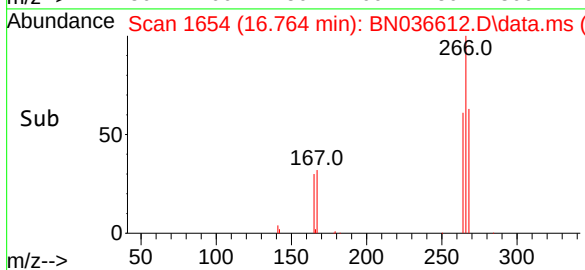
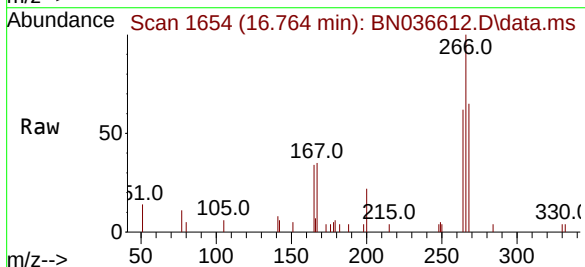
Manual Integrations
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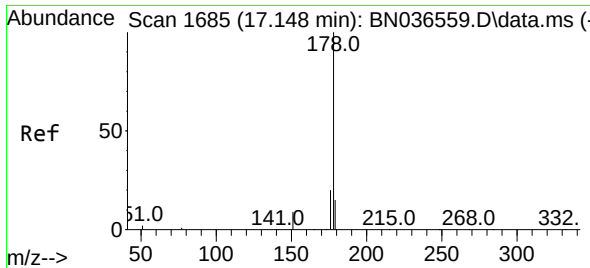
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#24
Pentachlorophenol
Concen: 0.864 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion:266 Resp: 2125
Ion Ratio Lower Upper
266 100
264 63.0 49.6 74.4
268 64.0 50.9 76.3





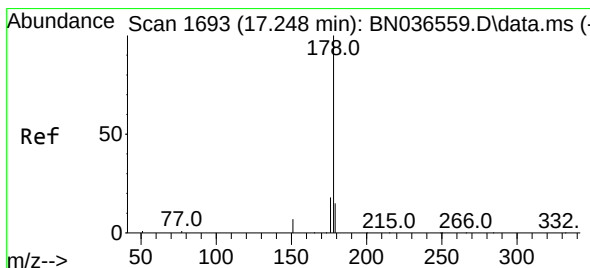
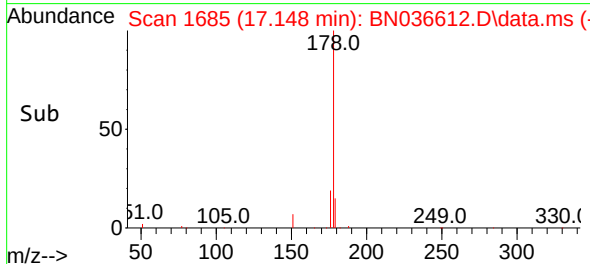
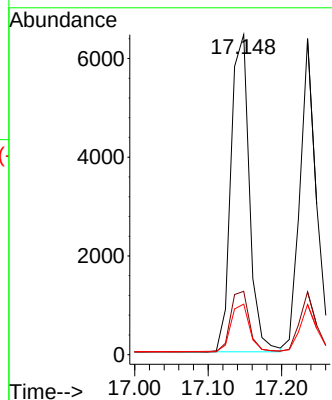
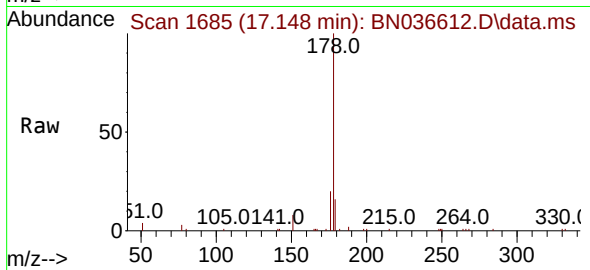
#25
Phenanthrene
Concen: 0.524 ng
RT: 17.148 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD

Tgt Ion:178 Resp: 11219
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.3 12.2 18.4

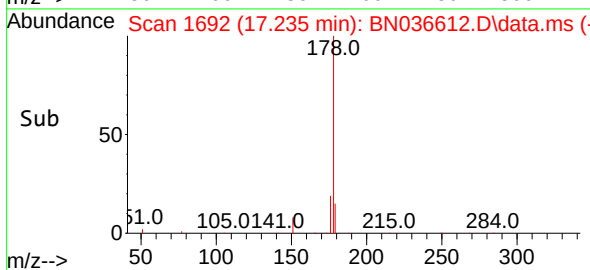
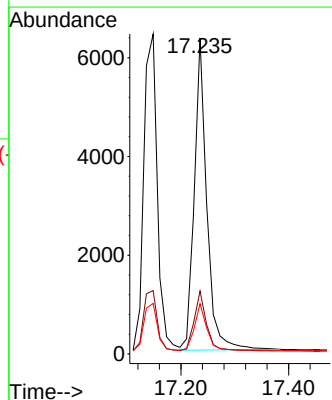
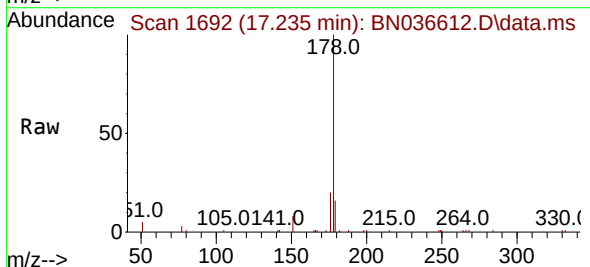
Manual Integrations
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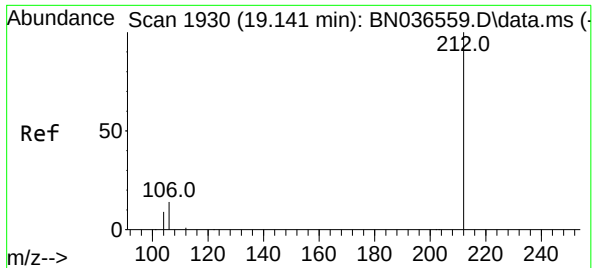
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#26
Anthracene
Concen: 0.529 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

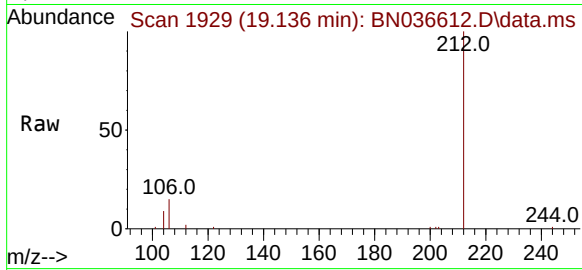
Tgt Ion:178 Resp: 10217
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.444 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

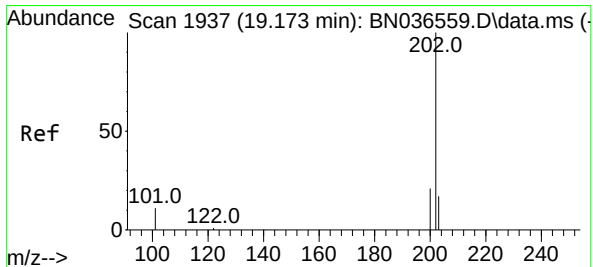
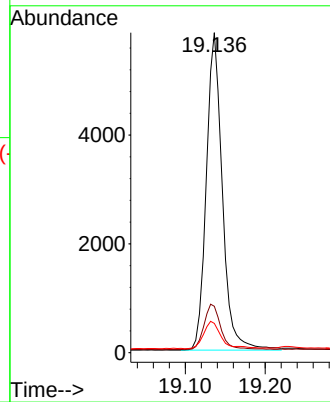
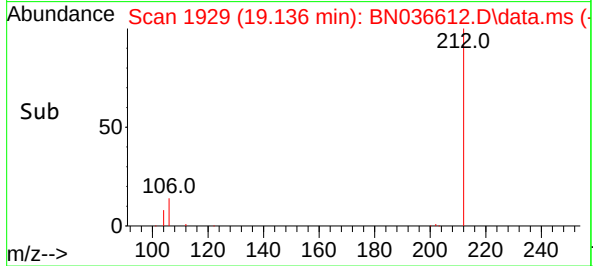
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



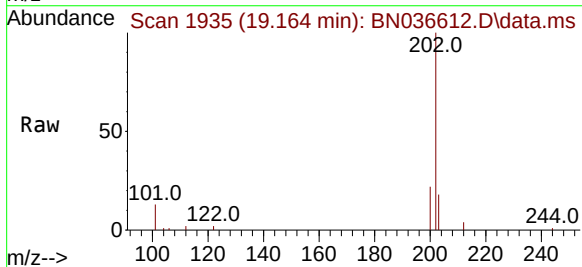
Tgt Ion:212 Resp: 8120
Ion Ratio Lower Upper
212 100
106 15.2 11.8 17.6
104 9.5 7.3 10.9

Manual Integrations
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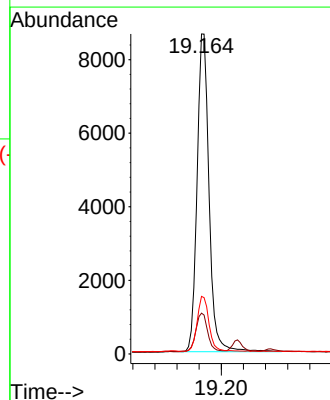
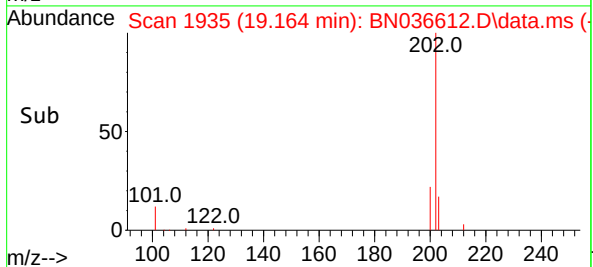
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

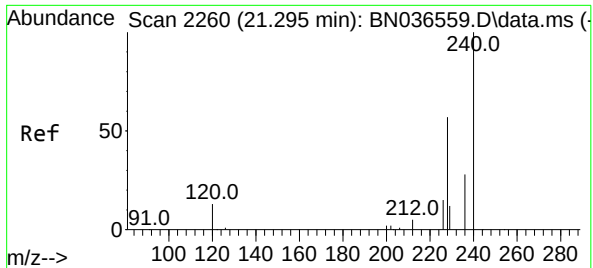


#28
Fluoranthene
Concen: 0.543 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00



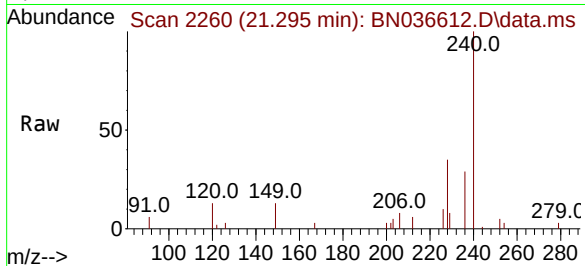
Tgt Ion:202 Resp: 13048
Ion Ratio Lower Upper
202 100
101 12.1 9.4 14.0
203 17.0 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

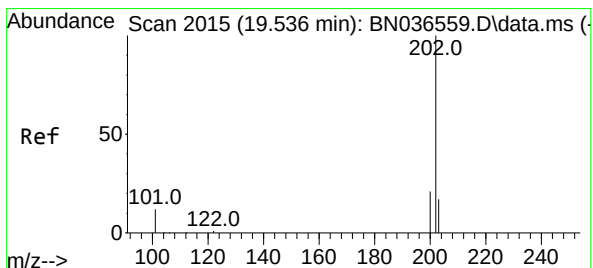
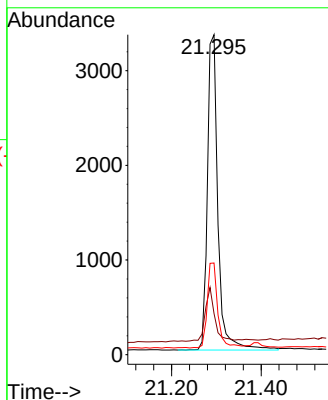
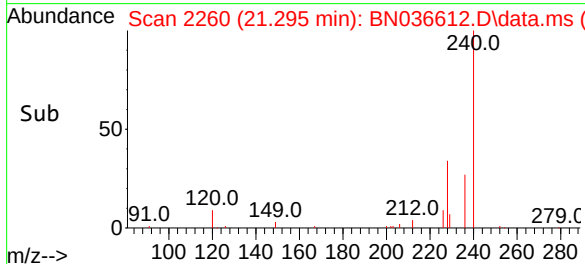
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



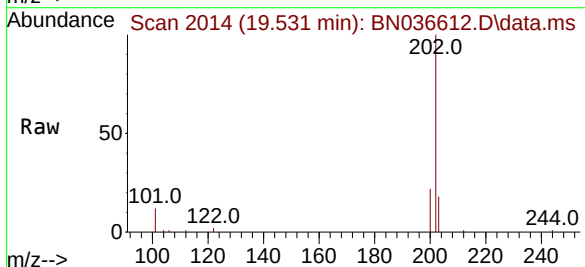
Tgt Ion:240 Resp: 543
Ion Ratio Lower Upper
240 100
120 12.9 14.6 22.0
236 28.6 24.1 36.1

Manual Integrations
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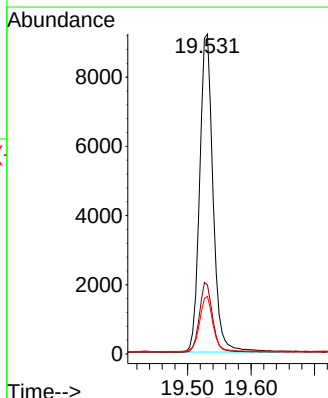
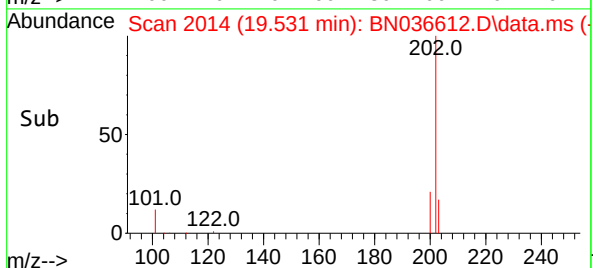
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

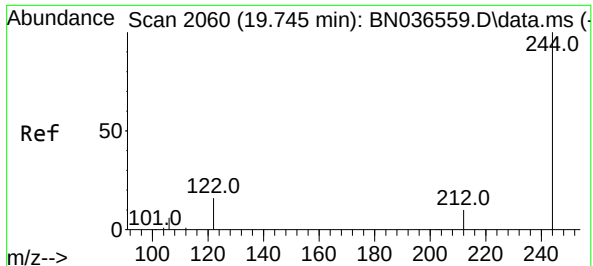


#30
Pyrene
Concen: 0.507 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00



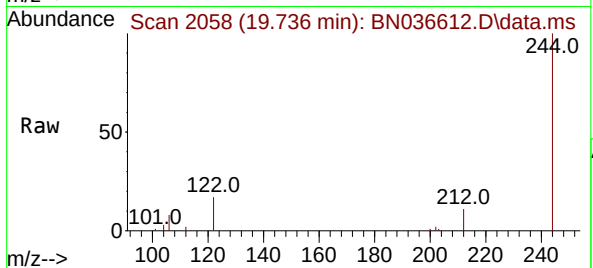
Tgt Ion:202 Resp: 13477
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.5 14.1 21.1





#31
Terphenyl-d14
Concen: 0.688 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

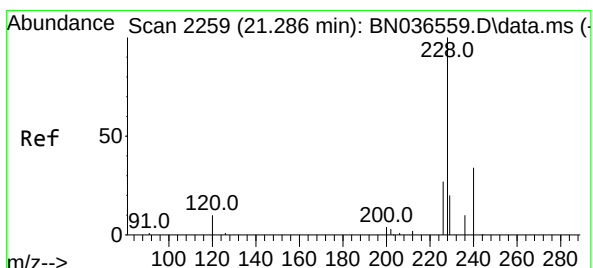
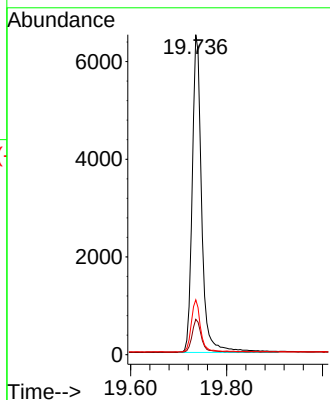
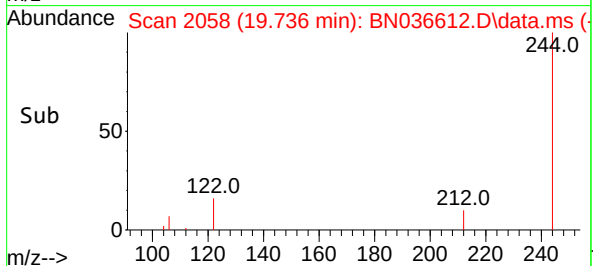
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion:244 Resp: 8960
Ion Ratio Lower Upper
244 100
212 11.0 9.6 14.4
122 17.1 13.9 20.9

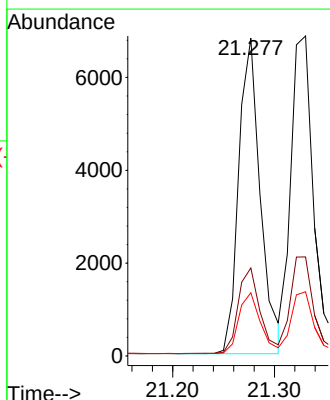
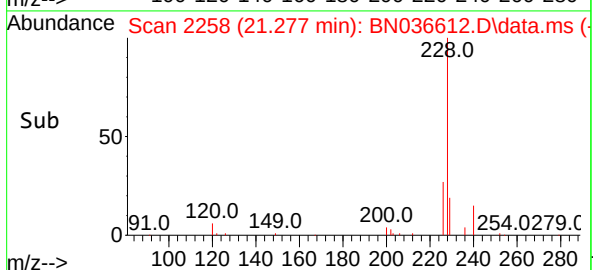
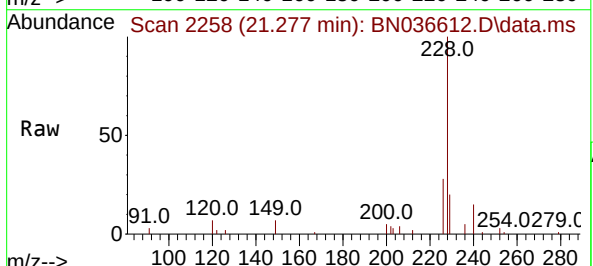
Manual Integrations
APPROVED

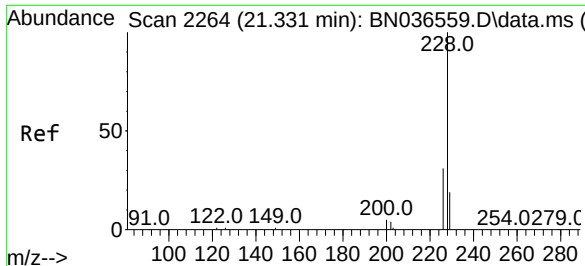
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#32
Benzo(a)anthracene
Concen: 0.530 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

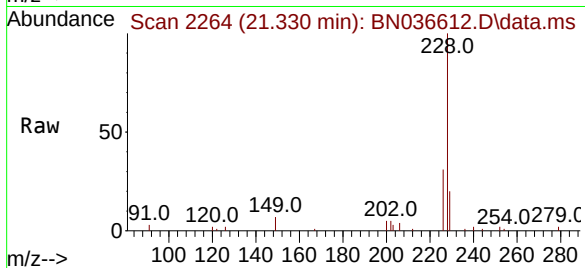
Tgt Ion:228 Resp: 10027
Ion Ratio Lower Upper
228 100
226 27.7 22.5 33.7
229 19.9 16.6 25.0





#33
Chrysene
Concen: 0.540 ng
RT: 21.330 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

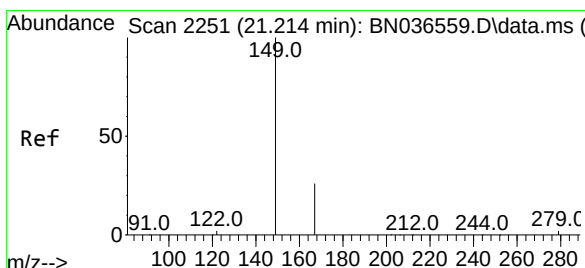
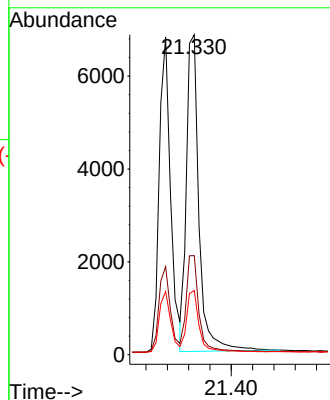
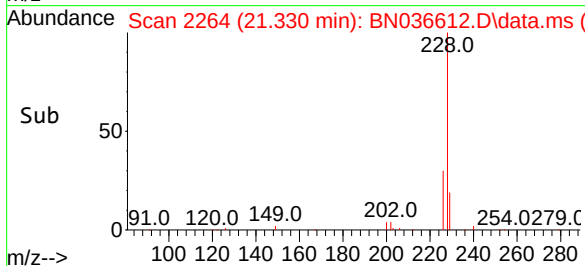
Instrument :
BNA_N
ClientSampleId :
BPOW6-9-20250312MSD



Tgt Ion: 228 Resp: 1115
Ion Ratio Lower Upper
228 100
226 30.9 25.3 37.9
229 20.0 15.8 23.8

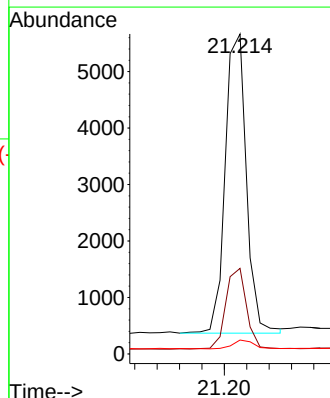
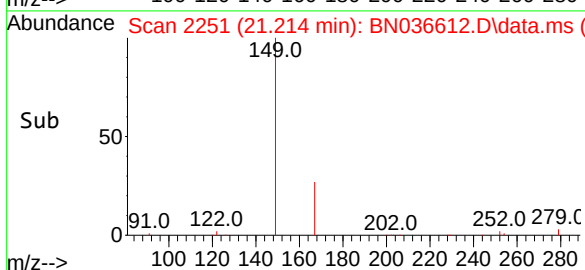
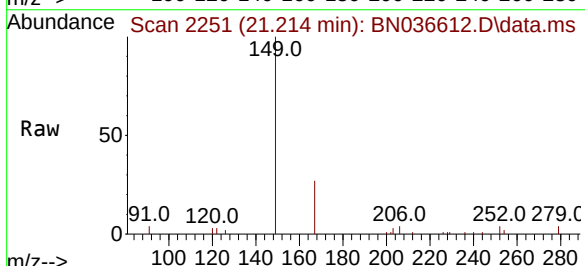
Manual Integrations
APPROVED

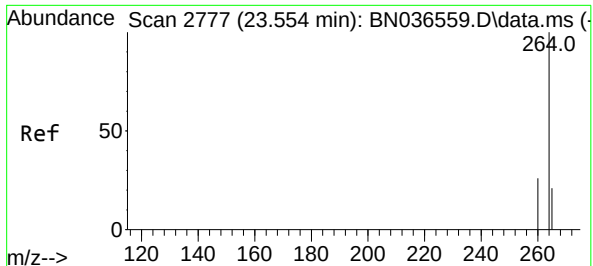
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.518 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036612.D
Acq: 14 Mar 2025 18:00

Tgt Ion: 149 Resp: 6969
Ion Ratio Lower Upper
149 100
167 26.2 20.7 31.1
279 2.8 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.545 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036612.D

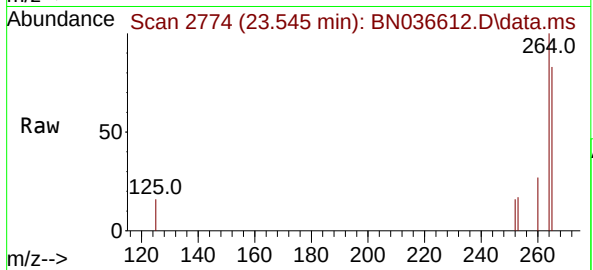
Acq: 14 Mar 2025 18:00

Instrument :

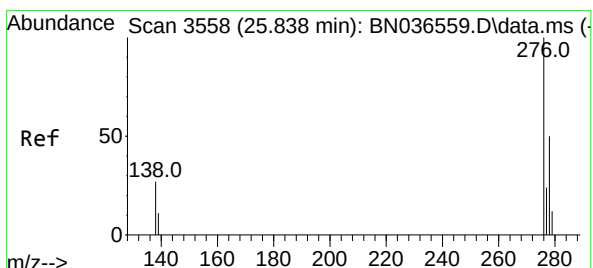
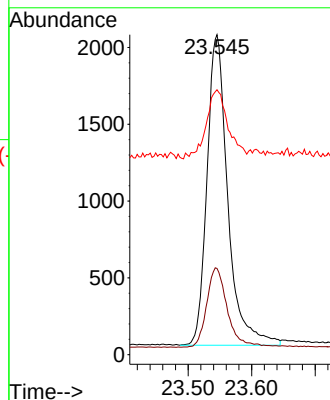
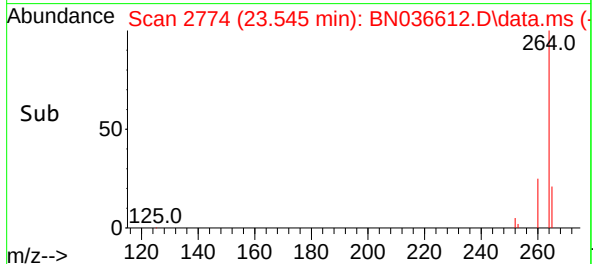
BNA_N

ClientSampleId :

BPOW6-9-20250312MSD



Tgt Ion:	264	Resp:	460
Ion Ratio	Lower	Upper	
264	100		
260	27.0	22.6	33.8
265	82.8	88.1	132.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

#36

Indeno(1,2,3-cd)pyrene

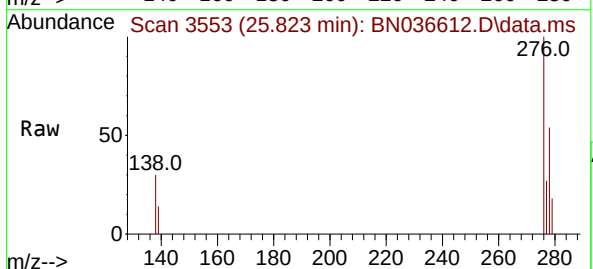
Concen: 0.542 ng

RT: 25.823 min Scan# 3553

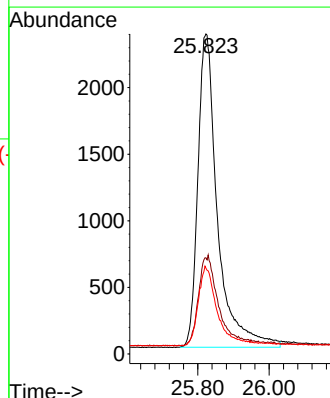
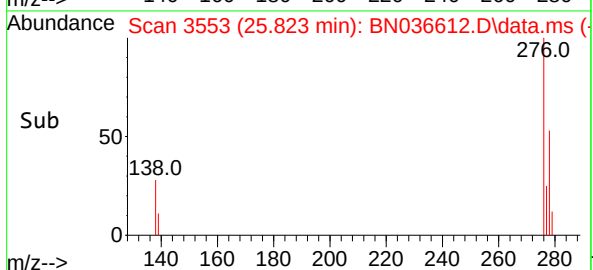
Delta R.T. -0.015 min

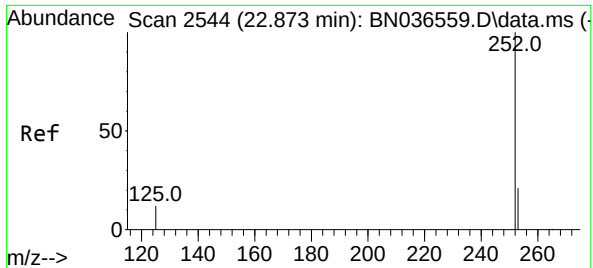
Lab File: BN036612.D

Acq: 14 Mar 2025 18:00



Tgt Ion:	276	Resp:	9000
Ion Ratio	Lower	Upper	
276	100		
138	28.7	23.4	35.2
277	24.5	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.537 ng

RT: 22.864 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Instrument :

BNA_N

ClientSampleId :

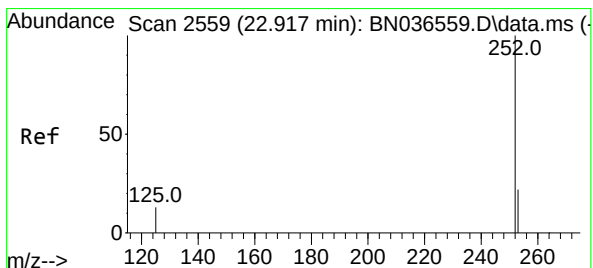
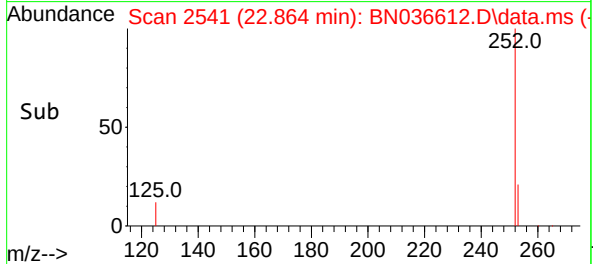
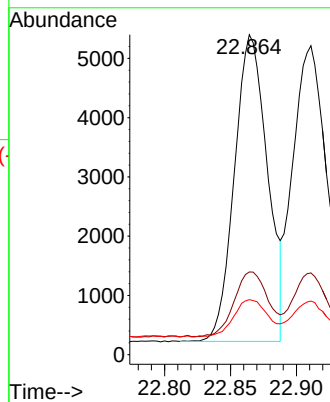
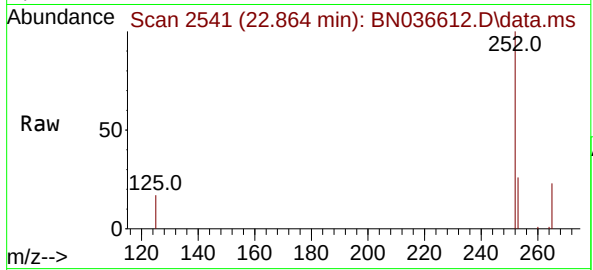
BPOW6-9-20250312MSD

Tgt Ion:252	Resp:	898
Ion Ratio	Lower	Upper
252	100	
253	25.9	23.9 35.9
125	17.2	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#38

Benzo(k)fluoranthene

Concen: 0.551 ng

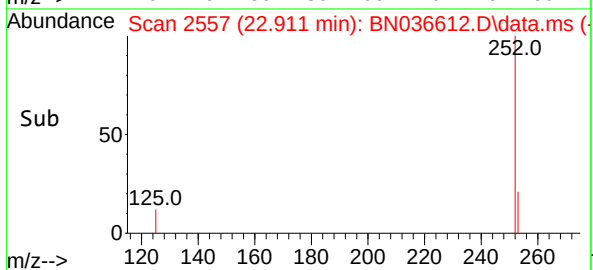
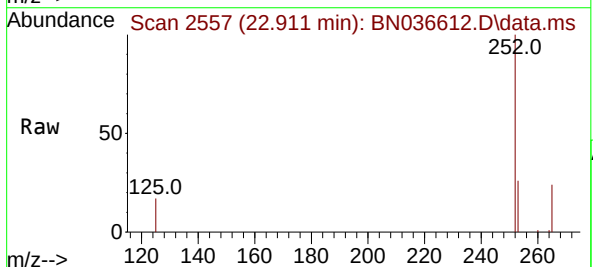
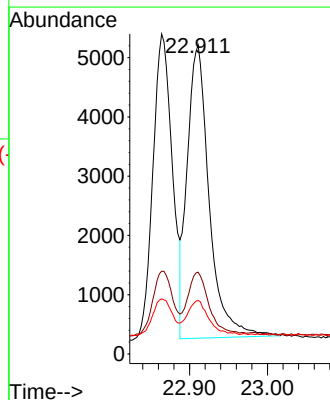
RT: 22.911 min Scan# 2557

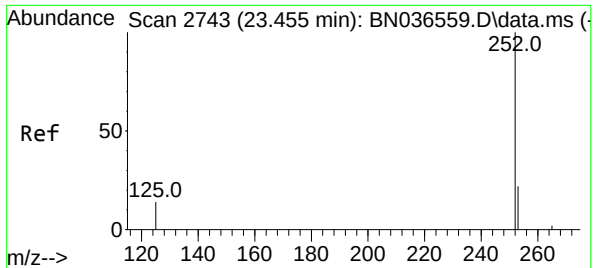
Delta R.T. -0.006 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Tgt Ion:252	Resp:	9690
Ion Ratio	Lower	Upper
252	100	
253	26.5	24.6 36.8
125	17.3	17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.574 ng

RT: 23.443 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Instrument :

BNA_N

ClientSampleId :

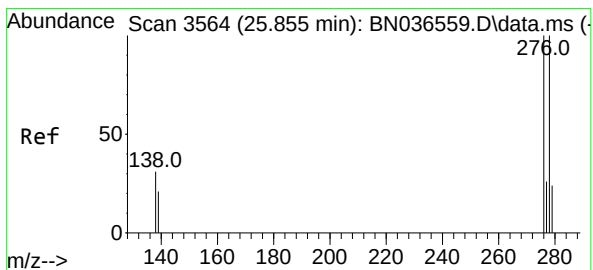
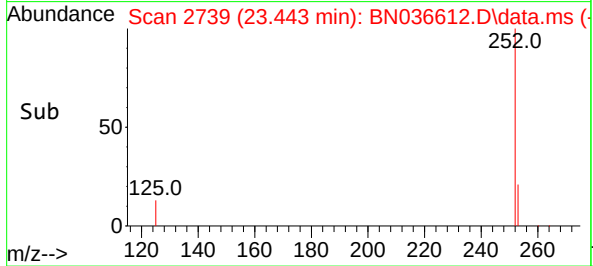
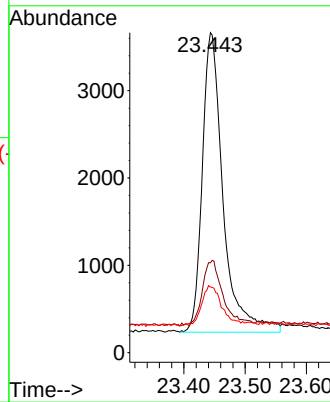
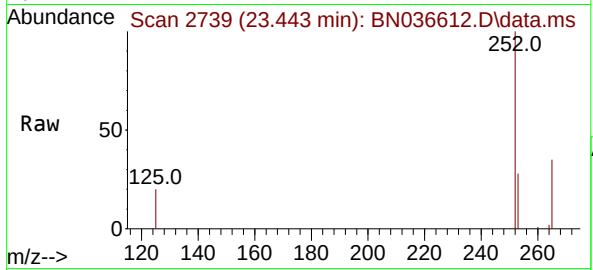
BPOW6-9-20250312MSD

Tgt Ion:	252	Resp:	8100
Ion Ratio	Lower	Upper	
252	100		
253	28.1	27.8	41.8
125	20.5	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.522 ng

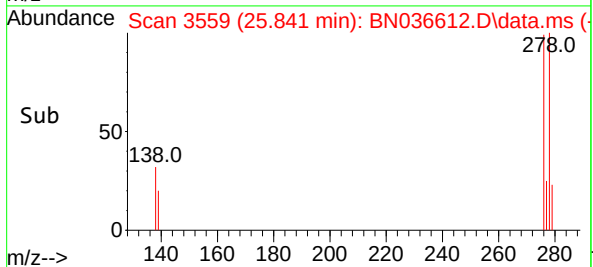
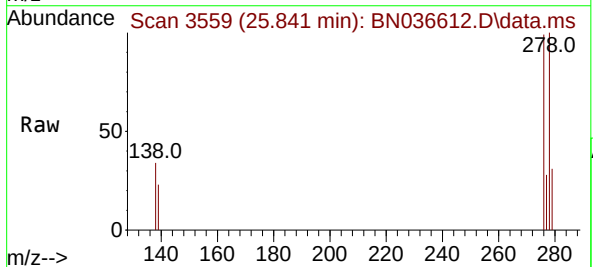
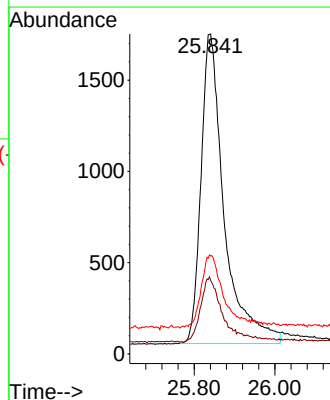
RT: 25.841 min Scan# 3559

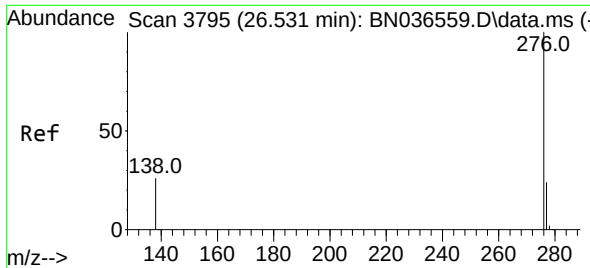
Delta R.T. -0.015 min

Lab File: BN036612.D

Acq: 14 Mar 2025 18:00

Tgt Ion:	278	Resp:	6755
Ion Ratio	Lower	Upper	
278	100		
139	23.0	20.8	31.2
279	30.6	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.492 ng

RT: 26.513 min Scan# 31

Delta R.T. -0.018 min

Lab File: BN036612.D

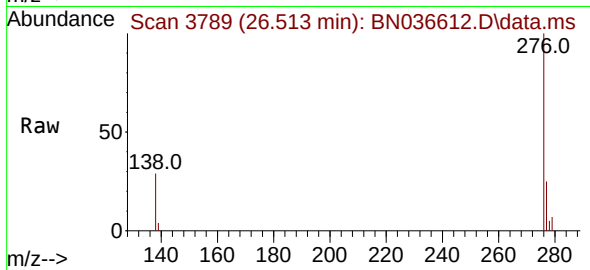
Acq: 14 Mar 2025 18:00

Instrument :

BNA_N

ClientSampleId :

BPOW6-9-20250312MSD



Tgt Ion:276 Resp: 727

Ion Ratio Lower Upper

276 100

277 25.0 22.2 33.4

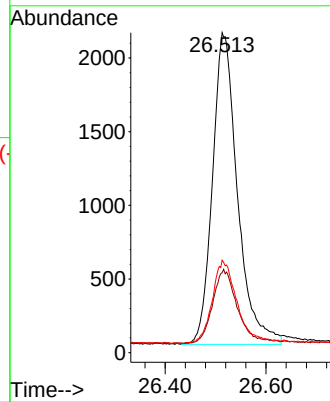
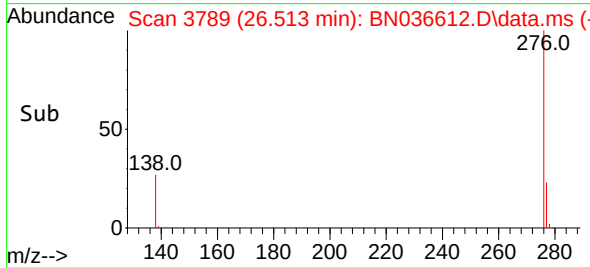
138 28.9 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



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
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:	BN031425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1502-21DL	BN036604.D	Benzo(b)fluoranthene	anahy	3/17/2025 12:05:13 PM	Jagrut	3/17/2025 12:48:33 PM	Peak Integrated by Software
Q1557-04MS	BN036611.D	2-Methylnaphthalene-d1 0	anahy	3/17/2025 12:05:52 PM	Jagrut	3/17/2025 12:48:35 PM	Peak Integrated by Software
Q1557-05MSD	BN036612.D	2-Methylnaphthalene-d1 0	anahy	3/17/2025 12:06:49 PM	Jagrut	3/17/2025 12:48:38 PM	Peak Integrated by Software
PB167128BS	BN036630.D	2-Methylnaphthalene-d1 0	anahy	3/17/2025 12:15:52 PM	Jagrut	3/17/2025 12:48:53 PM	Peak Integrated by Software
PB167128BS	BN036630.D	Benzo(k)fluoranthene	anahy	3/17/2025 12:15:52 PM	Jagrut	3/17/2025 12:48:53 PM	Peak Integrated by Software
PB167128BS	BN036630.D	Bis(2-ethylhexyl)phthala te	anahy	3/17/2025 12:15:52 PM	Jagrut	3/17/2025 12:48:53 PM	Peak Integrated by Software
PB167128BL	BN036634.D	2-Fluorobiphenyl	anahy	3/17/2025 12:22:48 PM	Jagrut	3/17/2025 12:48:56 PM	Peak Integrated by Software
SSTDCCC0.4	BN036649.D	Benzo(k)fluoranthene	anahy	3/17/2025 12:27:43 PM	Jagrut	3/17/2025 12:49:03 PM	Peak Integrated by Software

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 # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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	BN036600.D	14 Mar 2025 09:30	RC/JU	Ok
2	SSTDCCC0.4	BN036601.D	14 Mar 2025 10:09	RC/JU	Ok
3	PB167128BL	BN036602.D	14 Mar 2025 10:45	RC/JU	Not Ok
4	Q1502-21	BN036603.D	14 Mar 2025 11:21	RC/JU	Dilution
5	Q1502-21DL	BN036604.D	14 Mar 2025 12:11	RC/JU	Ok,M
6	Q1502-05	BN036605.D	14 Mar 2025 13:05	RC/JU	Dilution
7	Q1502-05DL	BN036606.D	14 Mar 2025 13:57	RC/JU	Ok
8	Q1502-08	BN036607.D	14 Mar 2025 14:37	RC/JU	Dilution
9	Q1502-08DL	BN036608.D	14 Mar 2025 15:33	RC/JU	Ok
10	Q1557-01	BN036609.D	14 Mar 2025 16:11	RC/JU	Ok
11	Q1557-03	BN036610.D	14 Mar 2025 16:48	RC/JU	Ok
12	Q1557-04MS	BN036611.D	14 Mar 2025 17:24	RC/JU	Ok,M
13	Q1557-05MSD	BN036612.D	14 Mar 2025 18:00	RC/JU	Ok,M
14	SSTDCCC0.4	BN036613.D	14 Mar 2025 18:36	RC/JU	Ok
15	DFTPP	BN036614.D	14 Mar 2025 19:51	RC/JU	Ok
16	SSTDCCC0.4	BN036615.D	14 Mar 2025 20:30	RC/JU	Ok
17	PB167131BL	BN036616.D	14 Mar 2025 21:06	RC/JU	Ok,M
18	Q1557-02	BN036617.D	14 Mar 2025 21:43	RC/JU	Ok
19	Q1559-19	BN036618.D	14 Mar 2025 22:19	RC/JU	Ok,M
20	Q1559-20	BN036619.D	14 Mar 2025 22:54	RC/JU	Ok
21	Q1559-21	BN036620.D	14 Mar 2025 23:30	RC/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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			

22	Q1559-05	BN036621.D	15 Mar 2025 00:06	RC/JU	Ok
23	Q1557-06	BN036622.D	15 Mar 2025 00:42	RC/JU	Ok
24	Q1557-07	BN036623.D	15 Mar 2025 01:17	RC/JU	Ok,M
25	Q1557-08	BN036624.D	15 Mar 2025 01:53	RC/JU	Ok,M
26	Q1559-22	BN036625.D	15 Mar 2025 02:29	RC/JU	Ok,M
27	Q1559-01	BN036626.D	15 Mar 2025 03:05	RC/JU	Dilution
28	Q1559-02	BN036627.D	15 Mar 2025 03:41	RC/JU	Dilution
29	Q1559-03	BN036628.D	15 Mar 2025 04:16	RC/JU	Ok
30	Q1559-04	BN036629.D	15 Mar 2025 04:53	RC/JU	Dilution
31	PB167128BS	BN036630.D	15 Mar 2025 05:28	RC/JU	Ok,M
32	SSTDCCC0.4	BN036631.D	15 Mar 2025 06:04	RC/JU	Ok
33	DFTPP	BN036632.D	15 Mar 2025 06:41	RC/JU	Ok
34	SSTDCCC0.4	BN036633.D	15 Mar 2025 08:35	RC/JU	Ok
35	PB167128BL	BN036634.D	15 Mar 2025 09:11	RC/JU	Ok,M
36	Q1559-06	BN036635.D	15 Mar 2025 09:47	RC/JU	Ok
37	Q1559-07	BN036636.D	15 Mar 2025 10:23	RC/JU	Ok
38	Q1559-08	BN036637.D	15 Mar 2025 10:59	RC/JU	Ok
39	Q1559-09	BN036638.D	15 Mar 2025 11:35	RC/JU	Dilution
40	Q1559-10	BN036639.D	15 Mar 2025 12:11	RC/JU	Ok
41	Q1559-11	BN036640.D	15 Mar 2025 12:48	RC/JU	Ok
42	Q1559-12	BN036641.D	15 Mar 2025 13:24	RC/JU	Ok
43	Q1559-13	BN036642.D	15 Mar 2025 14:00	RC/JU	Ok
44	Q1559-14	BN036643.D	15 Mar 2025 14:36	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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			

45	Q1559-15	BN036644.D	15 Mar 2025 15:12	RC/JU	Ok
46	Q1559-16	BN036645.D	15 Mar 2025 15:48	RC/JU	Ok
47	Q1559-17	BN036646.D	15 Mar 2025 16:24	RC/JU	Ok
48	PB167131BS	BN036647.D	15 Mar 2025 17:00	RC/JU	Ok,M
49	PB167131BSD	BN036648.D	15 Mar 2025 17:36	RC/JU	Ok,M
50	SSTDCCC0.4	BN036649.D	15 Mar 2025 18:12	RC/JU	Ok,M

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 # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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	BN036600.D	14 Mar 2025 09:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036601.D	14 Mar 2025 10:09		RC/JU	Ok
3	PB167128BL	PB167128BL	BN036602.D	14 Mar 2025 10:45	Analyzed for contamination check	RC/JU	Not Ok
4	Q1502-21	RR-PAH-WP	BN036603.D	14 Mar 2025 11:21	PT Sample, Need 5X Dilution	RC/JU	Dilution
5	Q1502-21DL	RR-PAH-WPDL	BN036604.D	14 Mar 2025 12:11		RC/JU	Ok,M
6	Q1502-05	PT-BN-WP	BN036605.D	14 Mar 2025 13:05	PT Sample, Need 50X Dilution	RC/JU	Dilution
7	Q1502-05DL	PT-BN-WPDL	BN036606.D	14 Mar 2025 13:57		RC/JU	Ok
8	Q1502-08	PT-ACIDS-WP	BN036607.D	14 Mar 2025 14:37	PT Sample, Need 20X Dilution	RC/JU	Dilution
9	Q1502-08DL	PT-ACIDS-WPDL	BN036608.D	14 Mar 2025 15:33		RC/JU	Ok
10	Q1557-01	BPOW6-7-20250312	BN036609.D	14 Mar 2025 16:11		RC/JU	Ok
11	Q1557-03	BPOW6-9-20250312	BN036610.D	14 Mar 2025 16:48		RC/JU	Ok
12	Q1557-04MS	BPOW6-9-20250312MS	BN036611.D	14 Mar 2025 17:24		RC/JU	Ok,M
13	Q1557-05MSD	BPOW6-9-20250312MS	BN036612.D	14 Mar 2025 18:00		RC/JU	Ok,M
14	SSTDCCC0.4	SSTDCCC0.4EC	BN036613.D	14 Mar 2025 18:36		RC/JU	Ok
15	DFTPP	DFTPP	BN036614.D	14 Mar 2025 19:51		RC/JU	Ok
16	SSTDCCC0.4	SSTDCCC0.4	BN036615.D	14 Mar 2025 20:30		RC/JU	Ok
17	PB167131BL	PB167131BL	BN036616.D	14 Mar 2025 21:06		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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			

18	Q1557-02	BPOW6-8-20250312	BN036617.D	14 Mar 2025 21:43		RC/JU	Ok
19	Q1559-19	DUP05-20250312	BN036618.D	14 Mar 2025 22:19		RC/JU	Ok,M
20	Q1559-20	RE120D1-20250312	BN036619.D	14 Mar 2025 22:54		RC/JU	Ok
21	Q1559-21	RE120D3-20250312	BN036620.D	14 Mar 2025 23:30	Need 5X Dilution	RC/JU	Dilution
22	Q1559-05	RE134D4-20250310	BN036621.D	15 Mar 2025 00:06		RC/JU	Ok
23	Q1557-06	BPOW6-10-20250312	BN036622.D	15 Mar 2025 00:42		RC/JU	Ok
24	Q1557-07	BPOW6-11-20250312	BN036623.D	15 Mar 2025 01:17		RC/JU	Ok,M
25	Q1557-08	DUP04-20250312	BN036624.D	15 Mar 2025 01:53		RC/JU	Ok,M
26	Q1559-22	RE120D2-20250312	BN036625.D	15 Mar 2025 02:29		RC/JU	Ok,M
27	Q1559-01	RE115D1-20250310	BN036626.D	15 Mar 2025 03:05	Need 2X Dilution	RC/JU	Dilution
28	Q1559-02	RE115D2-20250310	BN036627.D	15 Mar 2025 03:41	Need 5X Dilution	RC/JU	Dilution
29	Q1559-03	RE134D1-20250310	BN036628.D	15 Mar 2025 04:16		RC/JU	Ok
30	Q1559-04	RE134D3-20250310	BN036629.D	15 Mar 2025 04:53	Need 5X Dilution	RC/JU	Dilution
31	PB167128BS	PB167128BS	BN036630.D	15 Mar 2025 05:28		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN036631.D	15 Mar 2025 06:04		RC/JU	Ok
33	DFTPP	DFTPP	BN036632.D	15 Mar 2025 06:41		RC/JU	Ok
34	SSTDCCC0.4	SSTDCCC0.4	BN036633.D	15 Mar 2025 08:35		RC/JU	Ok
35	PB167128BL	PB167128BL	BN036634.D	15 Mar 2025 09:11		RC/JU	Ok,M
36	Q1559-06	TT149S1-20250310	BN036635.D	15 Mar 2025 09:47		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031425

Review By	anahy	Review On	3/17/2025 12:28:02 PM
Supervise By	Jagrut	Supervise On	3/17/2025 12:51:54 PM
SubDirectory	BN031425	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			

37	Q1559-07	RE125D3-20250310	BN036636.D	15 Mar 2025 10:23		RC/JU	Ok
38	Q1559-08	DUP02-20250310	BN036637.D	15 Mar 2025 10:59		RC/JU	Ok
39	Q1559-09	DUP03-20250310	BN036638.D	15 Mar 2025 11:35	Need 2X Dilution	RC/JU	Dilution
40	Q1559-10	RW10-MW01D-202503	BN036639.D	15 Mar 2025 12:11		RC/JU	Ok
41	Q1559-11	RW10-MW01S-202503	BN036640.D	15 Mar 2025 12:48		RC/JU	Ok
42	Q1559-12	TT158S1-20250311	BN036641.D	15 Mar 2025 13:24		RC/JU	Ok
43	Q1559-13	TT158I1-20250311	BN036642.D	15 Mar 2025 14:00		RC/JU	Ok
44	Q1559-14	RW10A-MW01S-20250	BN036643.D	15 Mar 2025 14:36		RC/JU	Ok
45	Q1559-15	RW10A-MW01I-202503	BN036644.D	15 Mar 2025 15:12		RC/JU	Ok
46	Q1559-16	RW4-RE137-20250311	BN036645.D	15 Mar 2025 15:48		RC/JU	Ok
47	Q1559-17	RE104D1-20250312	BN036646.D	15 Mar 2025 16:24		RC/JU	Ok
48	PB167131BS	PB167131BS	BN036647.D	15 Mar 2025 17:00		RC/JU	Ok,M
49	PB167131BSD	PB167131BSD	BN036648.D	15 Mar 2025 17:36		RC/JU	Ok,M
50	SSTDCCC0.4	SSTDCCC0.4EC	BN036649.D	15 Mar 2025 18:12		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/13/2025

Extraction Start Time : 12:40

Extraction End Date : 03/13/2025

Extraction End Time : 17:50

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continous 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
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-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

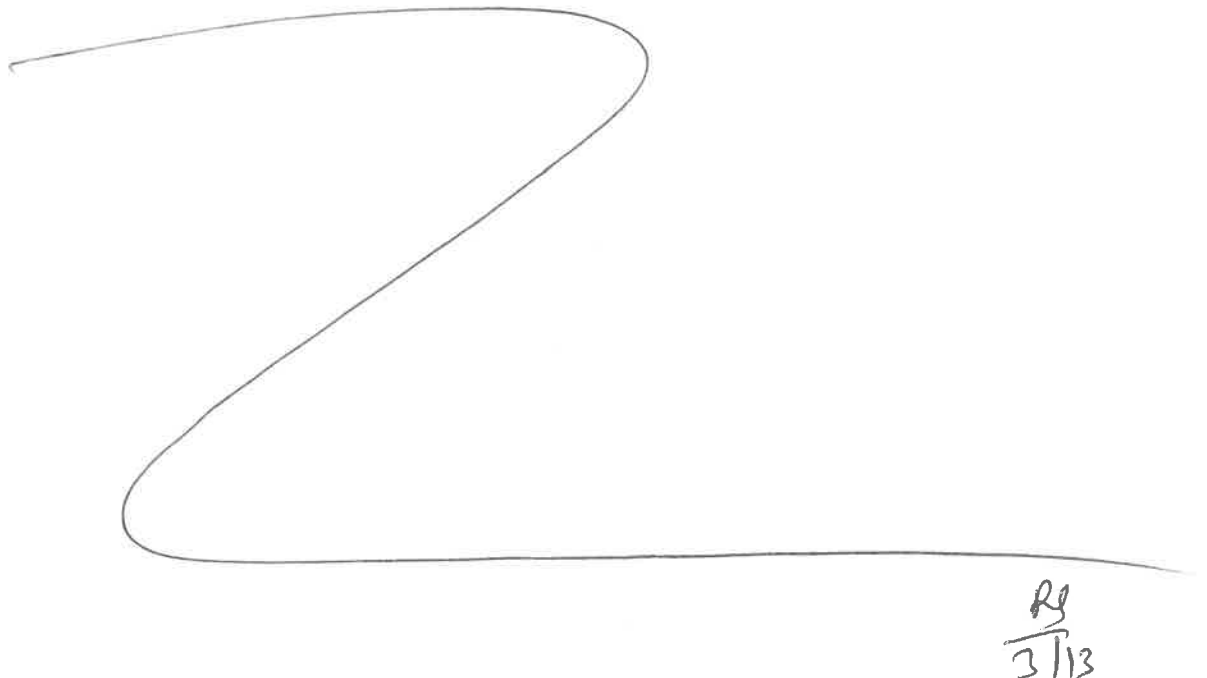
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/13/25	RS (ECT Lab)	Rclsvoc
17:55	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167128BL	SBLK128	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			SEP-1
PB167128BS	SLCS128	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			2
Q1502-05	PT-BN-WP	SVOCMS Group3	1000	6	RUPESEH	ritesh	1			3
Q1502-08	PT-ACIDS-WP	SVOCMS Group4	1000	6	RUPESEH	ritesh	1			4
Q1502-21	RR-PAH-WP	SVOCMS Group5	1000	6	RUPESEH	ritesh	1			5
Q1557-01	BPOW6-7-20250312	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		6
Q1557-02	BPOW6-8-20250312	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		7
Q1557-03	BPOW6-9-20250312	SVOC-SIMGrou p1	980	6	RUPESEH	ritesh	1	C		8
Q1557-04	Q1557-03MS	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		9
Q1557-05	Q1557-03MSD	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		10
Q1557-06	BPOW6-10-20250312	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		11
Q1557-07	BPOW6-11-20250312	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		12
Q1557-08	DUP04-20250312	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		13
Q1559-22	RE120D2-20250312	SVOC-SIMGrou p1	980	6	RUPESEH	ritesh	1	C		14



* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1557

WorkList ID : 188264

Department : Extraction

Date : 03-13-2025 12:32:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1502-05	PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1502-08	PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1502-21	RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	03/03/2025	8270-Modified
Q1557-01	BPOW6-7-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-02	BPOW6-8-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-03	BPOW6-9-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-04	Q1557-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-05	Q1557-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-06	BPOW6-10-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-07	BPOW6-11-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1557-08	DUP04-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified
Q1559-22	RE120D2-20250312	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I41	03/12/2025	8270-Modified

Date/Time 3/13/25 12:35

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: [Signature]

Date/Time 3/13/25 13:15

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: RS (Ext-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1502
Test : SVOCMS Group5
Prepbatch ID : PB167128,
Sequence ID/Qc Batch ID: BN031425,

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 DFTPP 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)

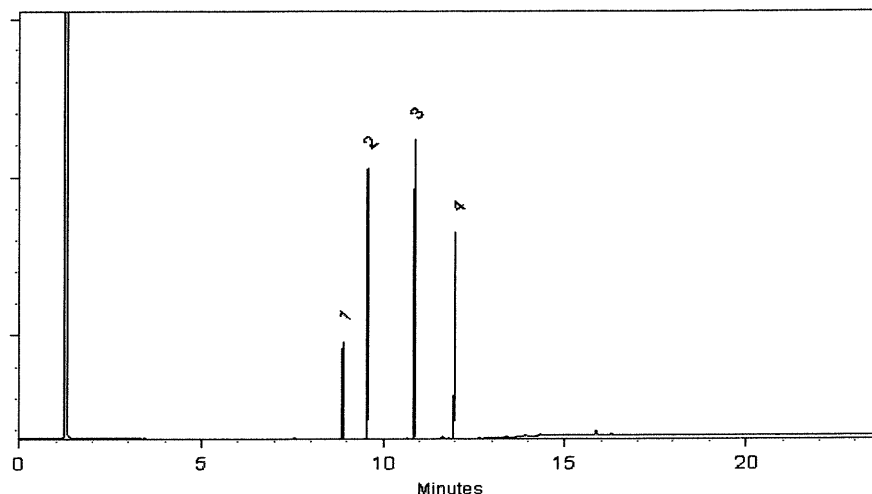
Carrier Gas:
hydrogen-constant pressure 10 psi.

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:

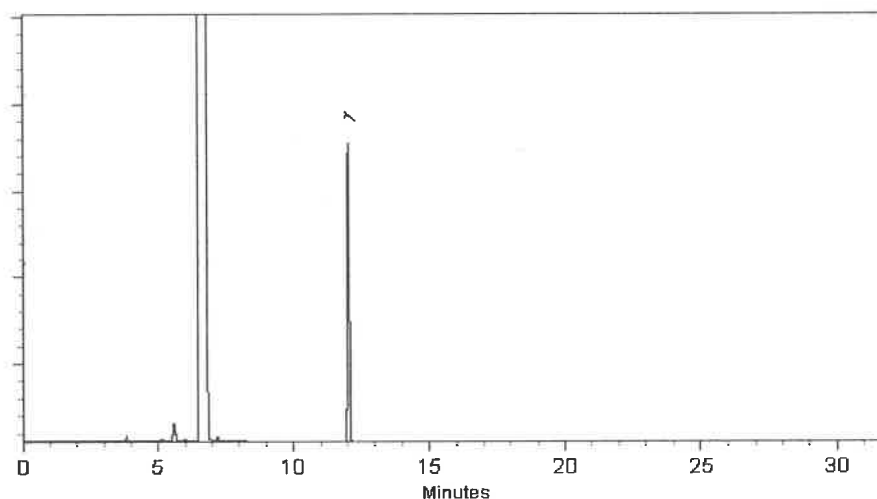
200°C

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



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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.

E 3657	E 3659
E 3654	E 3660

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	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
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 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



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	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 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

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

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
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: 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.



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** 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:

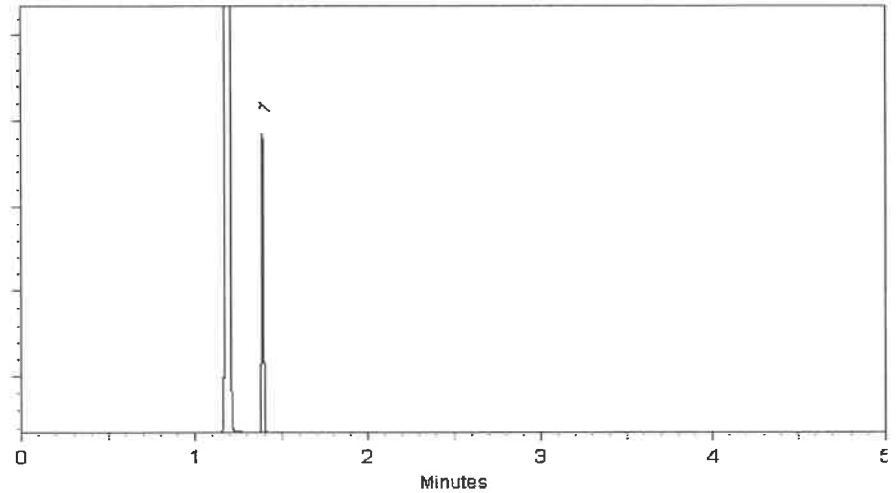
FID

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

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

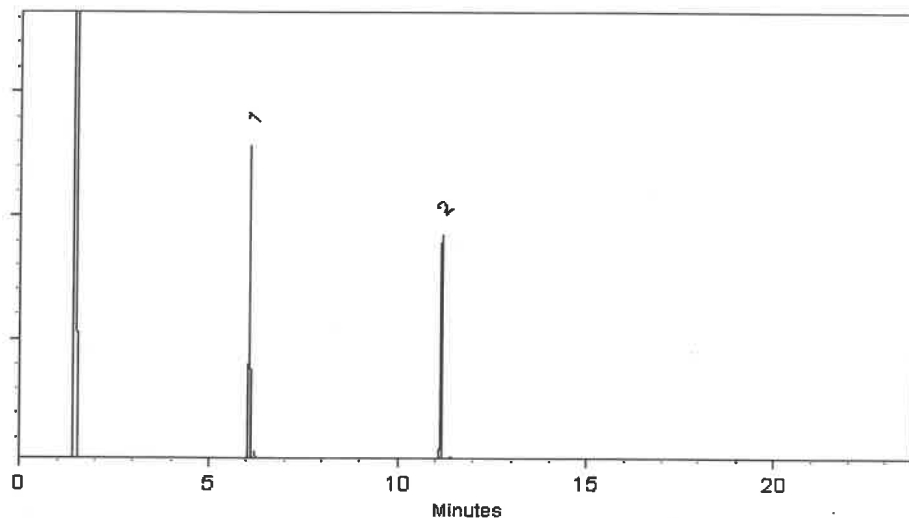
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

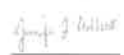


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
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. : 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	
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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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:

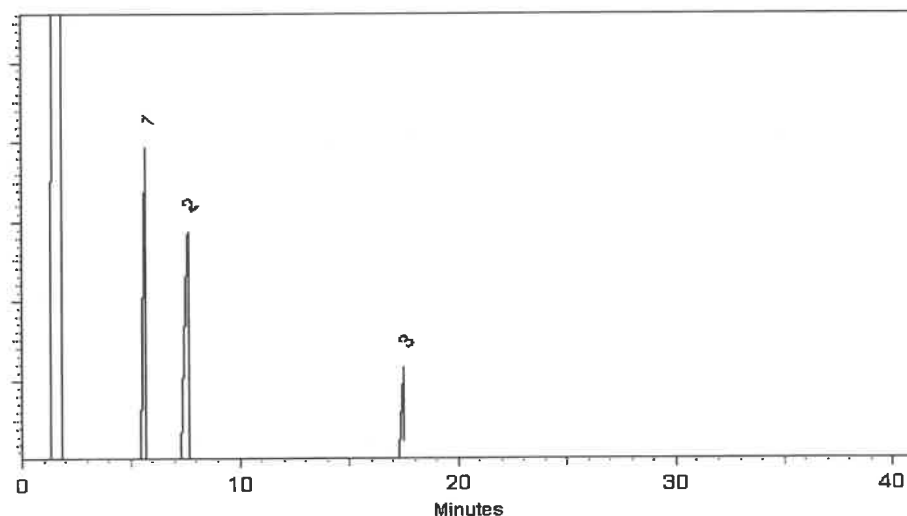
FID

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

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

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



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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

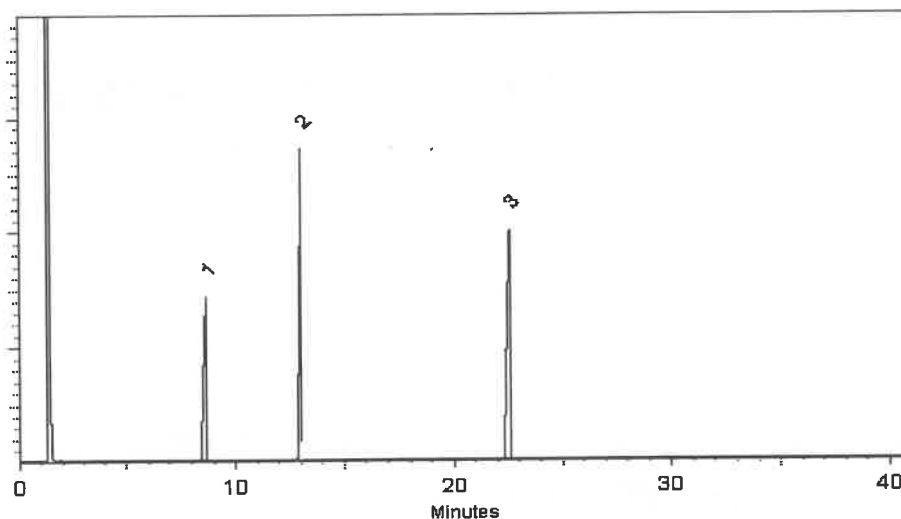
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



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

Date Received: _____

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Rev 0

Page 1 of 4

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

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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

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

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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:

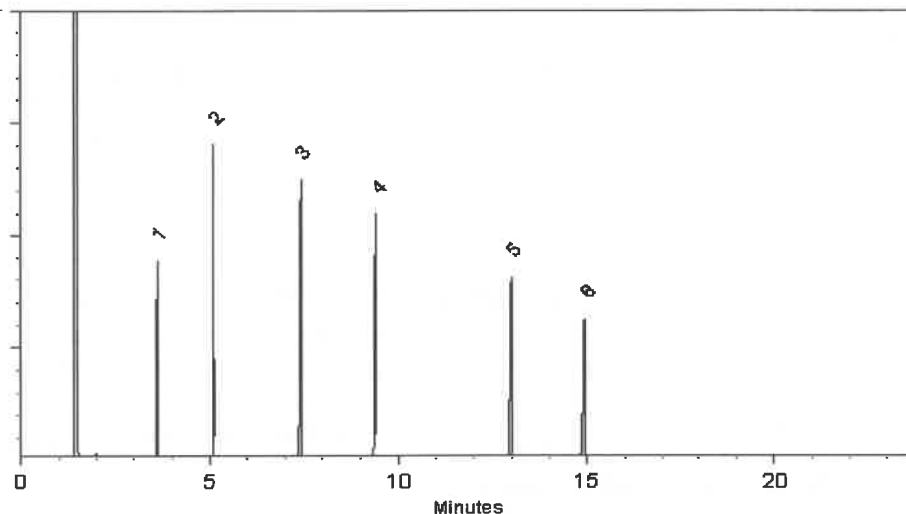
FID

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 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/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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gravimetric



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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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Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645
↓
S12674
AC
10/1/24



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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.



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

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

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info@phenova.com
www.phenova.com

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Date	Order #
03/03/2025	333289



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

3/5/2025

14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0325	8264-04
1	1	0	PT-HG-WP	WP Mercury	WP0325	8264-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0325	8264-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0325	8264-06
1	1	0	PT-DEM-WP	WP Demand	WP0325	8264-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0325	8264-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0325	8264-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0325	8264-72
1	1	0	PT-SOL-WP	WP Solids	WP0325	8264-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0325	8264-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0325	8264-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0325	8264-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0325	8264-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0325	8264-13
1	1	0	PT-PH-WP	WP pH	WP0325	8264-15
1	1	0	PT-CN-WP	WP Cyanide	WP0325	8264-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0325	8264-16

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03/03/2025	333289



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3/5/2025 14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0325	8264-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0325	8264-17
1	1	0	PT-TURB-WP	WP Turbidity	WP0325	8264-20
1	1	0	PT-VOA-WP	WP Volatiles	WP0325	8264-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0325	8264-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0325	8264-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0325	8264-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0325	8264-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0325	8264-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0325	8264-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0325	8264-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R40367	R40367-104
1	1	0	RR-VSOL-WP	WP Volatile Solids	R40367	R40367-18
1	1	0	RR-SIO2-WP	WP Silica	R40367	R40367-21
1	1	0	RR-COL-WP	WP Color	R40367	R40367-51
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R40367	R40367-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R40367	R40367-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R40367	R40367-98
1	1	0	RR-PAH-WP	WP PAH-Low Level	R40433	R40433-37

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Packing List

Date	Order #
03/07/2025	335989



Ship To

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ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
3/11/2025 9:55

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
Email: Sohil Jodhani	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R40480	R40480-108

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